

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121118\
 Data File : VD060528.D
 Acq On : 11 Dec 2018 11:45
 Operator : VA/AP
 Sample : VD1211SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Manual Integrations
 APPROVED

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 12/12/2018 1:29:59 PM

Quant Time: Dec 12 03:27:32 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	1635439	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.44	114	2253318	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	1750125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	902324	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	573969	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	
35) Dibromofluoromethane	6.33	113	815753	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
50) Toluene-d8	9.46	98	2420605	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
62) 4-Bromofluorobenzene	12.43	95	842357	49.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.60	85	441308	25.081	ug/l	99
3) Chloromethane	1.77	50	388774	23.137	ug/l	97
4) Vinyl Chloride	1.87	62	309765	23.098	ug/l	100
5) Bromomethane	2.16	94	56917	16.965	ug/l #	79
6) Chloroethane	2.27	64	79089	17.039	ug/l	99
7) Trichlorofluoromethane	2.52	101	323995	20.923	ug/l	100
8) Diethyl Ether	2.84	74	58497	21.871	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.11	101	219646	21.862	ug/l	95
10) Methyl Iodide	3.26	142	238050	20.270	ug/l	98
11) Tert butyl alcohol	3.98	59	39455	83.778	ug/l #	93
12) 1,1-Dichloroethene	3.09	96	181479	22.201	ug/l	96
13) Acrolein	3.00	56	47850	92.986	ug/l	96
14) Allyl chloride	3.55	41	328780	21.199	ug/l	99
15) Acrylonitrile	4.09	53	279704	104.599	ug/l	97
16) Acetone	3.18	43	178271	95.943	ug/l	100
17) Carbon Disulfide	3.33	76	565454	21.295	ug/l	100
18) Methyl Acetate	3.57	43	91429	20.704	ug/l	99
19) Methyl tert-butyl Ether	4.13	73	467370	20.617	ug/l	98
20) Methylene Chloride	3.73	84	387389	20.025	ug/l	98
21) trans-1,2-Dichloroethene	4.11	96	373666	21.014	ug/l	98
22) Diisopropyl ether	4.86	45	1171204	21.033	ug/l	99
23) Vinyl Acetate	4.81	43	2917072	105.732	ug/l	99
24) 1,1-Dichloroethane	4.76	63	614404	21.239	ug/l	99
25) 2-Butanone	5.63	43	358838	98.161	ug/l	98
26) 2,2-Dichloropropane	5.59	77	497964	22.283	ug/l	98
27) cis-1,2-Dichloroethene	5.60	96	387530	21.435	ug/l	95
28) Bromochloromethane	5.93	49	239427	18.683	ug/l	99
29) Tetrahydrofuran	5.95	42	218714	105.654	ug/l	96
30) Chloroform	6.10	83	617314	21.181	ug/l	98
31) Cyclohexane	6.38	56	592349	21.784	ug/l	97
32) 1,1,1-Trichloroethane	6.30	97	507243	21.171	ug/l	99
36) 1,1-Dichloropropene	6.52	75	480260	21.805	ug/l	98
37) Ethyl Acetate	5.71	43	201923	21.139	ug/l	98
38) Carbon Tetrachloride	6.50	117	430309	21.762	ug/l	98

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Manual Integrations
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Quant Time: Dec 12 03:27:32 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	554631	22.089	ug/l	97
40) Benzene	6.80	78	1233969	21.921	ug/l	99
41) Methacrylonitrile	5.93	41	124166m	24.113	ug/l	
42) 1,2-Dichloroethane	6.90	62	309277	21.609	ug/l	99
43) Isopropyl Acetate	8.34	43	241915	20.516	ug/l #	98
44) Trichloroethene	7.74	130	358851	21.331	ug/l	99
45) 1,2-Dichloropropane	8.10	63	299332	21.500	ug/l	98
46) Dibromomethane	8.22	93	165258	20.545	ug/l	97
47) Bromodichloromethane	8.49	83	410406	21.503	ug/l	99
48) Methyl methacrylate	8.25	41	147907	21.199	ug/l	99
49) 1,4-Dioxane	8.24	88	26876	425.021	ug/l	90
51) 4-Methyl-2-Pentanone	9.34	43	764758	104.264	ug/l	98
52) Toluene	9.54	92	749772	21.310	ug/l	100
53) t-1,3-Dichloropropene	9.92	75	332563	21.206	ug/l	100
54) cis-1,3-Dichloropropene	9.10	75	443369	21.518	ug/l	100
55) 1,1,2-Trichloroethane	10.18	97	204320	20.854	ug/l	97
56) Ethyl methacrylate	10.03	69	184869	20.848	ug/l	97
57) 1,3-Dichloropropane	10.38	76	320832	21.182	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.92	63	547297	103.153	ug/l	99
59) 2-Hexanone	10.49	43	521646	101.747	ug/l	99
60) Dibromochloromethane	10.64	129	268544	21.922	ug/l	100
61) 1,2-Dibromoethane	10.76	107	205071	20.538	ug/l	97
64) Tetrachloroethene	10.25	164	336987	21.745	ug/l	99
65) Chlorobenzene	11.32	112	807330	21.805	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.41	131	267440	22.410	ug/l	98
67) Ethyl Benzene	11.42	91	1447651	22.923	ug/l	98
68) m/p-Xylenes	11.56	106	1078227	46.149	ug/l	98
69) o-Xylene	11.94	106	497346	22.337	ug/l	98
70) Styrene	11.96	104	787928	22.046	ug/l	99
71) Bromoform	12.11	173	164089	20.610	ug/l	98
73) Isopropylbenzene	12.27	105	1399006	21.910	ug/l	99
74) N-amyl acetate	12.13	43	317277	20.560	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.56	83	207018	20.252	ug/l	99
76) 1,2,3-Trichloropropane	12.60	75	208974	20.440	ug/l	100
77) Bromobenzene	12.54	156	355335	21.171	ug/l	97
78) n-propylbenzene	12.63	91	1795803	22.249	ug/l	99
79) 2-Chlorotoluene	12.70	91	961205	21.946	ug/l	97
80) 1,3,5-Trimethylbenzene	12.79	105	1095320	22.450	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.34	75	57787	20.266	ug/l	97
82) 4-Chlorotoluene	12.81	91	1071397	21.780	ug/l	100
83) tert-Butylbenzene	13.05	119	1219658	22.295	ug/l	97
84) 1,2,4-Trimethylbenzene	13.09	105	1097763	21.730	ug/l	97
85) sec-Butylbenzene	13.23	105	1563756	22.935	ug/l	93
86) p-Isopropyltoluene	13.34	119	1207065	22.333	ug/l	99
87) 1,3-Dichlorobenzene	13.31	146	648191	21.330	ug/l	99
88) 1,4-Dichlorobenzene	13.39	146	631626	21.187	ug/l	99
89) n-Butylbenzene	13.65	91	1275575	21.299	ug/l	98
90) Hexachloroethane	13.86	117	289512	21.364	ug/l	88
91) 1,2-Dichlorobenzene	13.66	146	543166	21.872	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.23	75	25656	20.714	ug/l	75

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Instrument :
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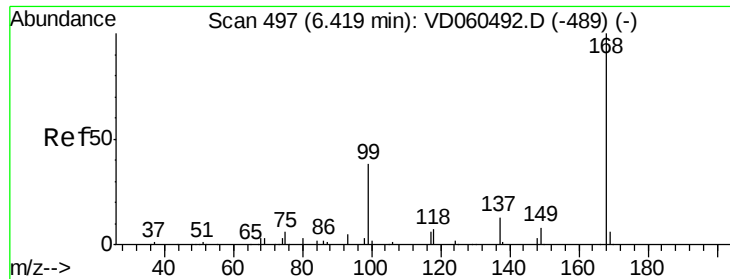
Manual Integrations
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Quant Time: Dec 12 03:27:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	419356	21.601	ug/l	99
94) Hexachlorobutadiene	14.88	225	310272	21.662	ug/l	99
95) Naphthalene	14.97	128	478736	20.728	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	318492	20.589	ug/l	99

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



#1

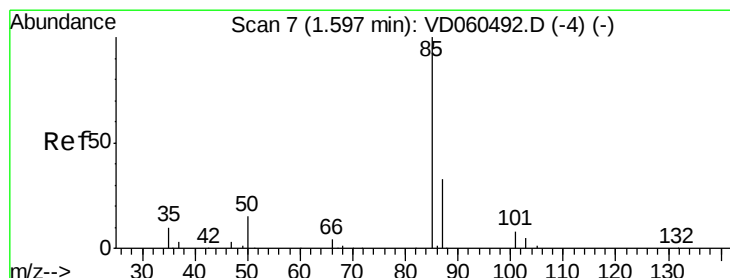
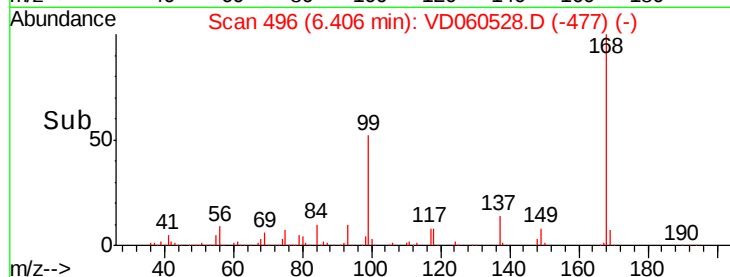
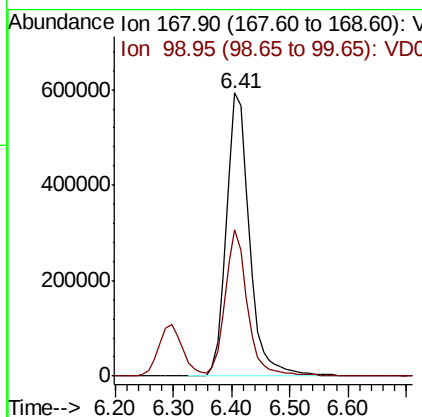
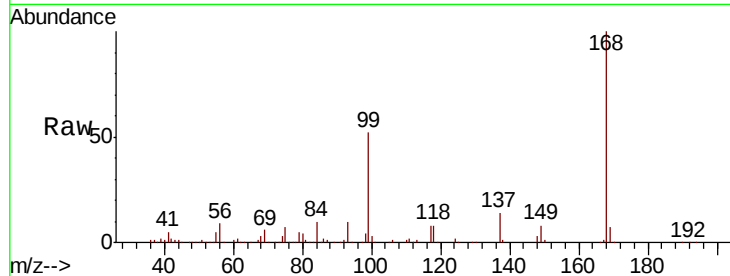
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 6.41 min Scan# 496
 Delta R.T. -0.01 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion:168 Resp: 1635439
 Ion Ratio Lower Upper
 168 100
 99 51.7 35.6 53.4

Manual Integrations
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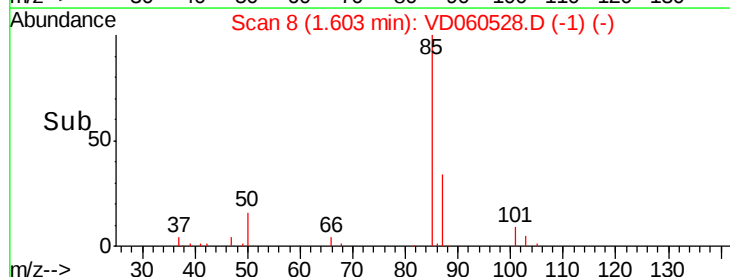
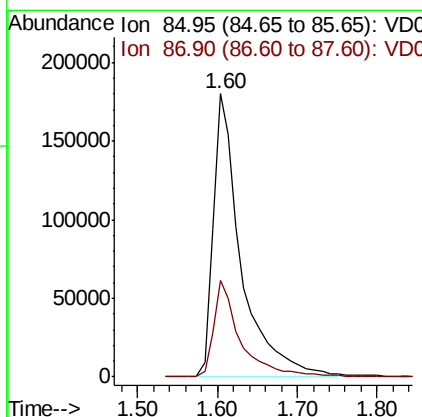
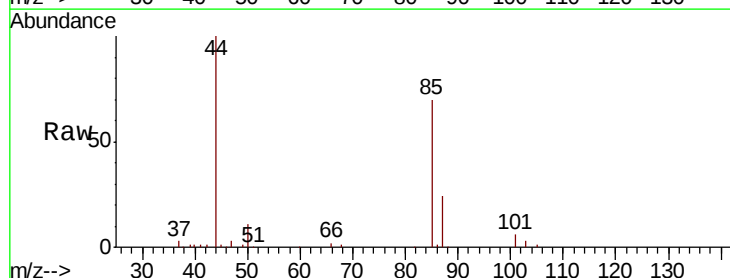
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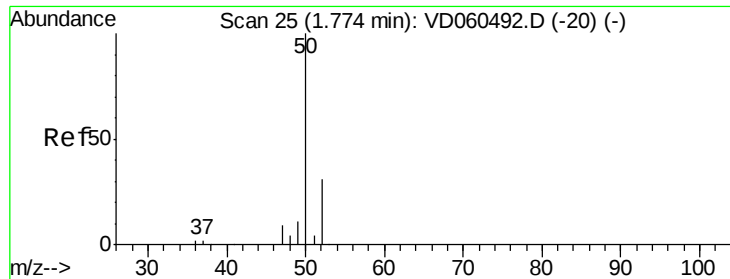


#2

Dichlorodifluoromethane
 Concen: 25.081 ug/l
 RT: 1.60 min Scan# 8
 Delta R.T. 0.01 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion: 85 Resp: 441308
 Ion Ratio Lower Upper
 85 100
 87 34.1 16.7 50.0





#3

Chloromethane

Concen: 23.137 ug/l

RT: 1.77 min Scan# 25

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 50 Resp: 388774

Ion Ratio Lower Upper

50 100

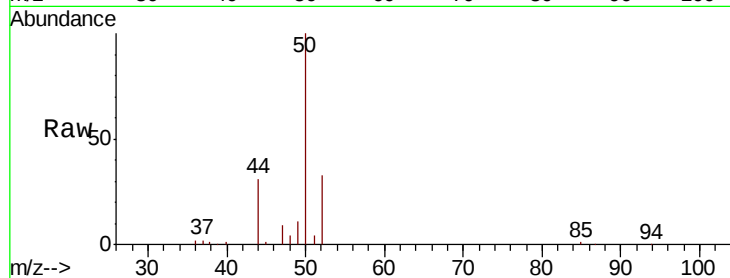
52 32.8 25.0 37.4

Manual Integrations

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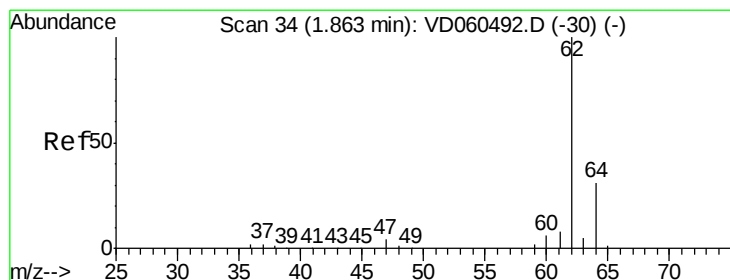
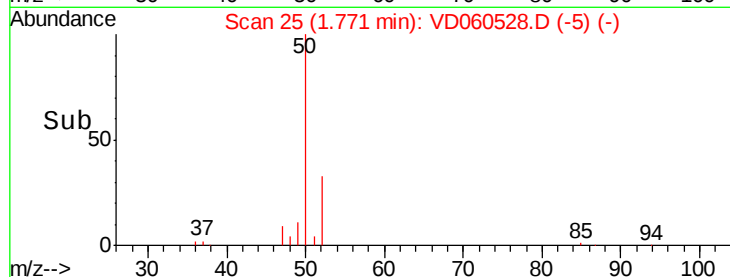
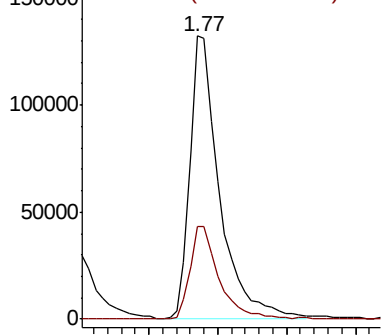
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 23.098 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD060528.D

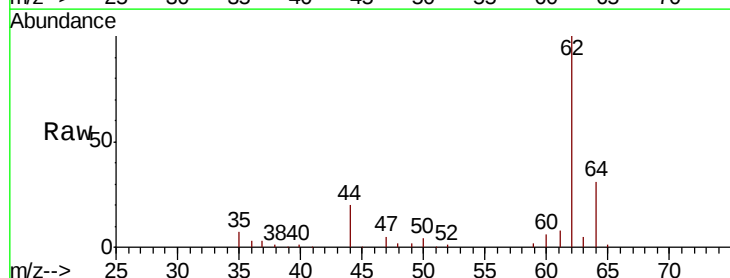
Acq: 11 Dec 2018 11:45

Tgt Ion: 62 Resp: 309765

Ion Ratio Lower Upper

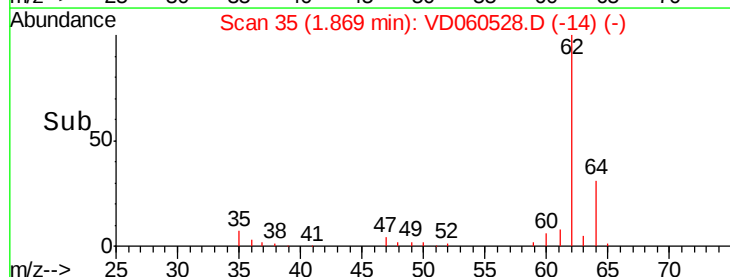
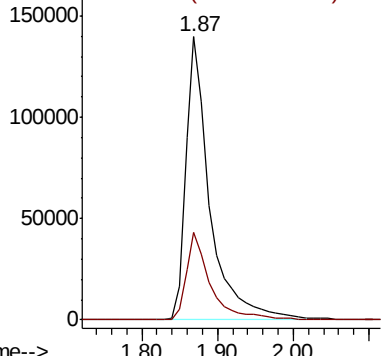
62 100

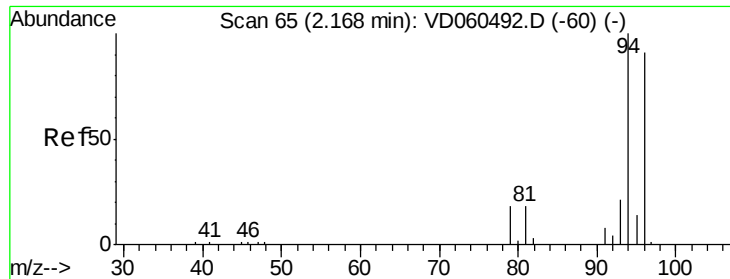
64 30.8 24.6 37.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.965 ug/l

RT: 2.16 min Scan# 65

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 94 Resp: 56917

Ion Ratio Lower Upper

94 100

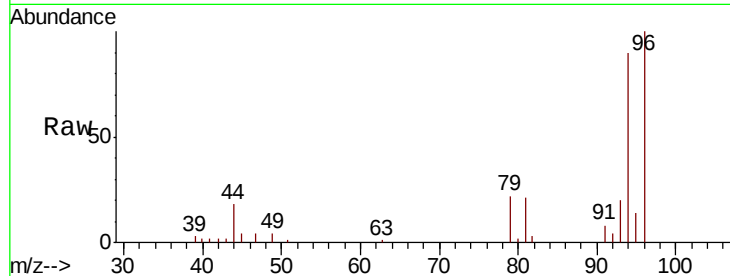
96 111.0 72.6 108.8#

Manual Integrations

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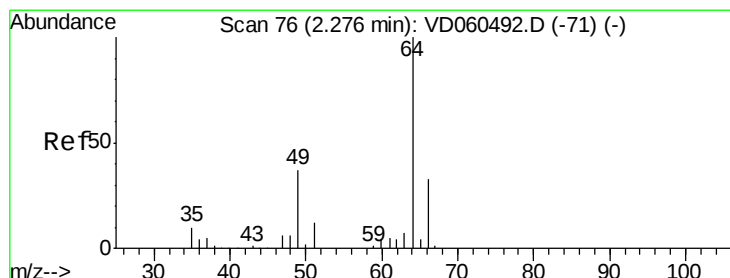
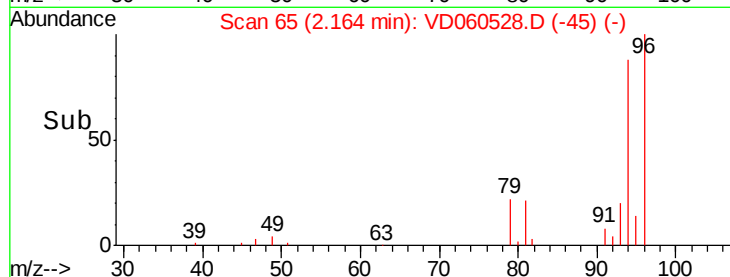
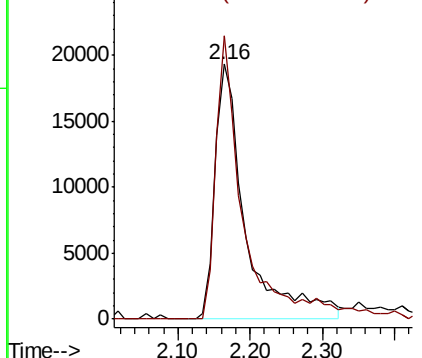
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 17.039 ug/l

RT: 2.27 min Scan# 76

Delta R.T. -0.00 min

Lab File: VD060528.D

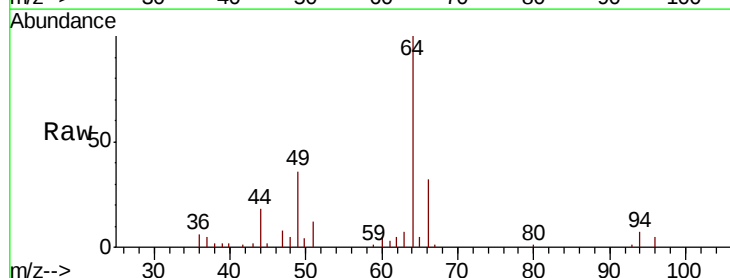
Acq: 11 Dec 2018 11:45

Tgt Ion: 64 Resp: 79089

Ion Ratio Lower Upper

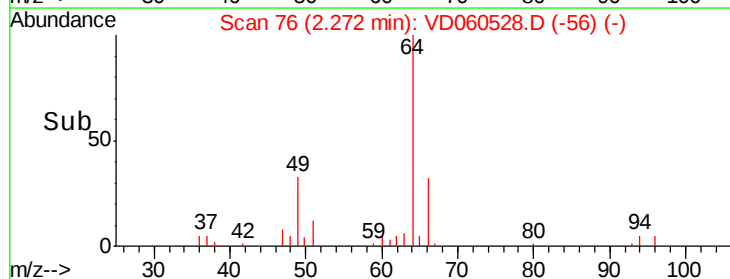
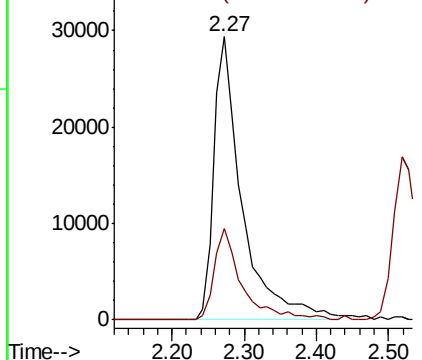
64 100

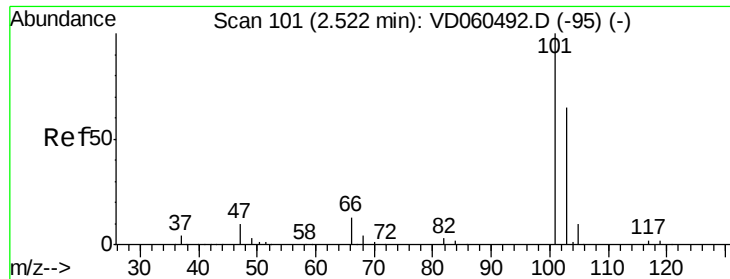
66 32.5 26.4 39.6



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

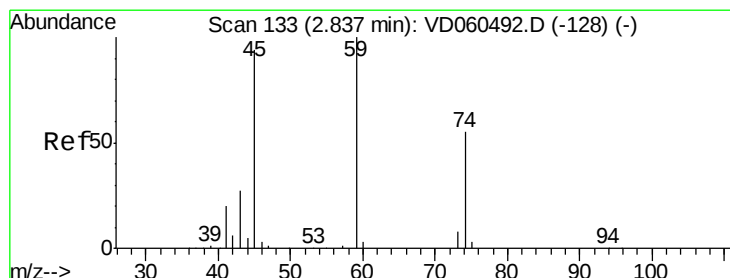
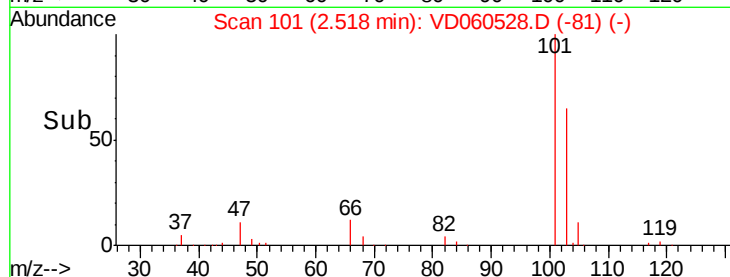
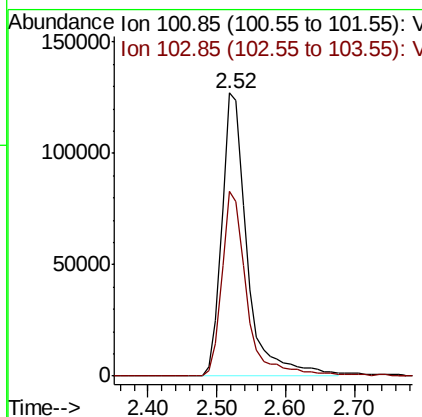
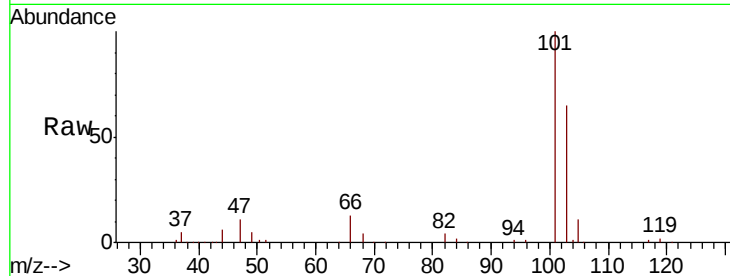
Trichlorofluoromethane
 Concen: 20.923 ug/l
 RT: 2.52 min Scan# 101
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.8	77.8

Manual Integrations
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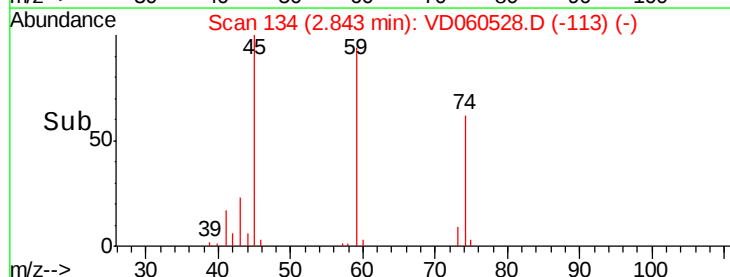
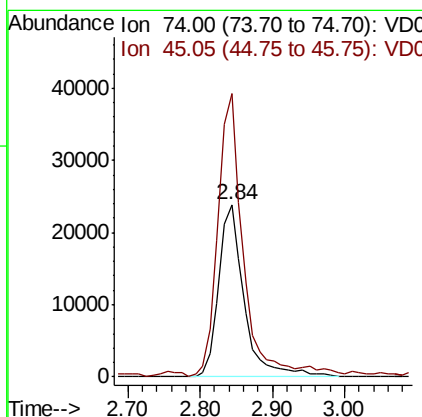
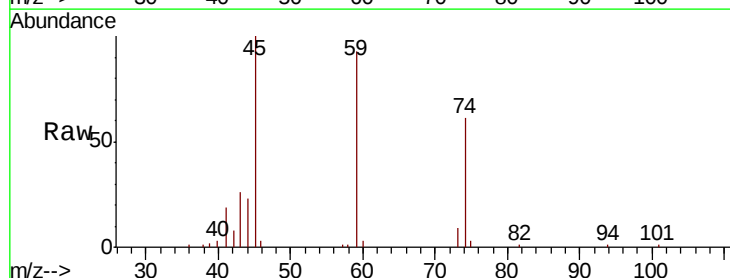
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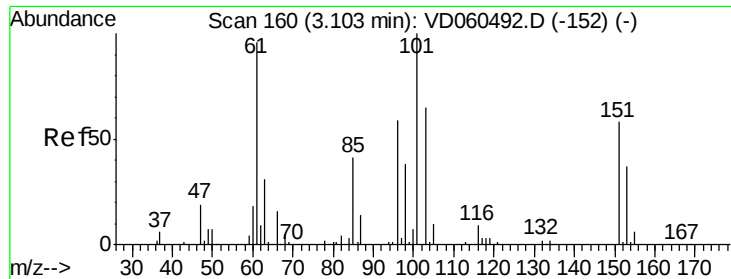


#8

Diethyl Ether
 Concen: 21.871 ug/l
 RT: 2.84 min Scan# 134
 Delta R.T. 0.01 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
74	100		
45	164.3	86.0	258.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.862 ug/l

RT: 3.11 min Scan# 161

Delta R.T. 0.01 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

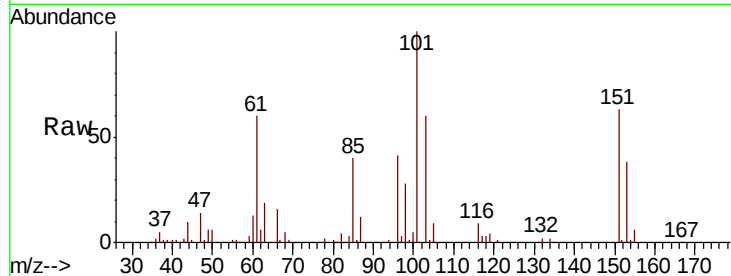
ClientSampleId :

VD1211SBS01

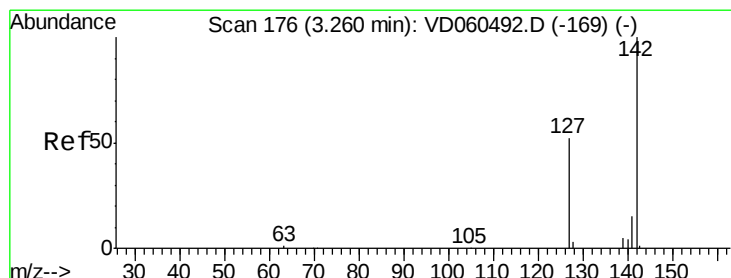
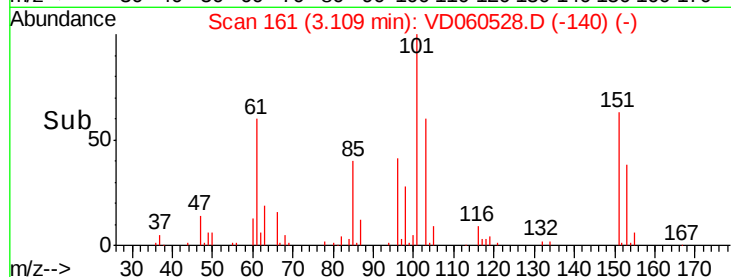
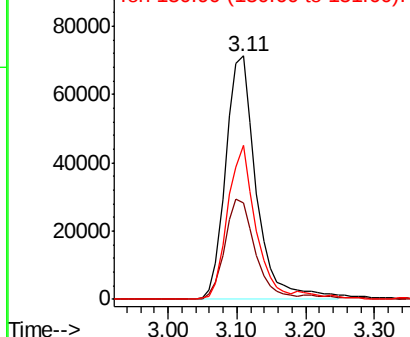
Tot Ion:	101	Resp:	219646
Ion Ratio	Lower	Upper	
101	100		
85	39.5	32.7	49.1
151	63.5	46.6	69.8

Manual Integrations
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Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 20.270 ug/l

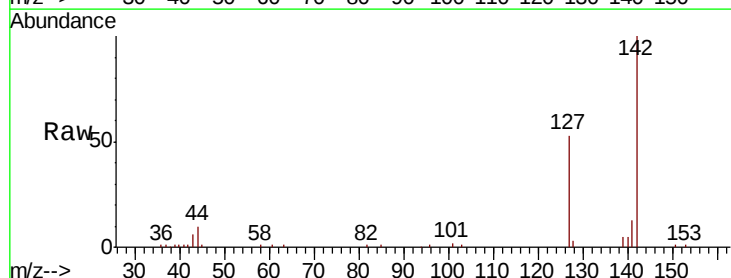
RT: 3.26 min Scan# 176

Delta R.T. -0.00 min

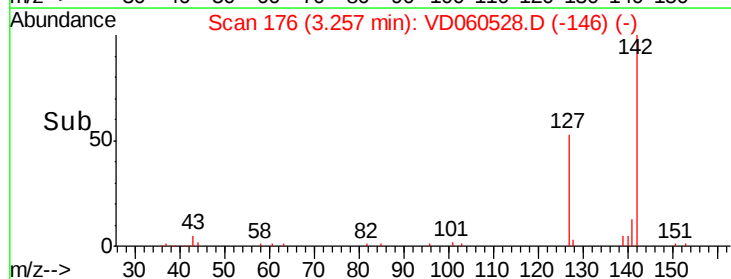
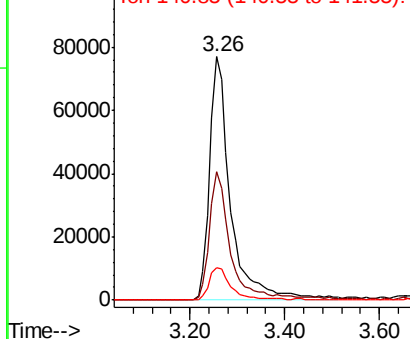
Lab File: VD060528.D

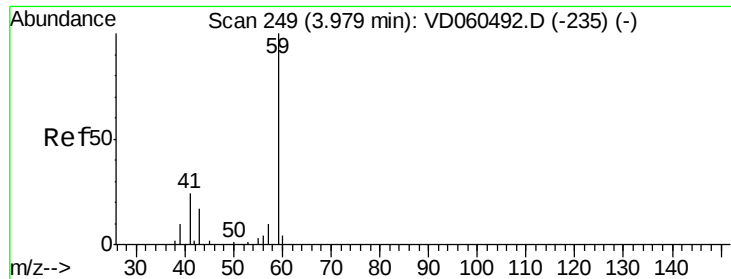
Acq: 11 Dec 2018 11:45

Tgt Ion:	142	Resp:	238050
Ion Ratio	Lower	Upper	
142	100		
127	52.6	41.2	61.8
141	13.3	11.9	17.9



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V





#11

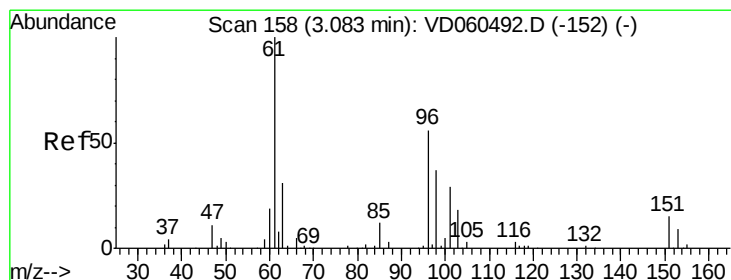
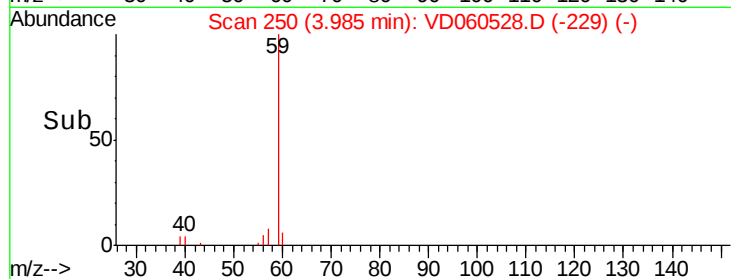
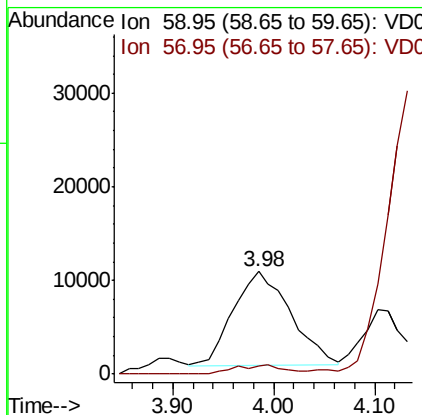
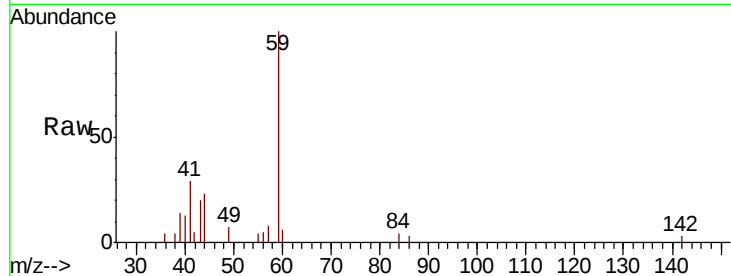
Tert butyl alcohol
Concen: 83.778 ug/l
RT: 3.98 min Scan# 250
Delta R.T. 0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.7	8.1	12.1#

Manual Integrations
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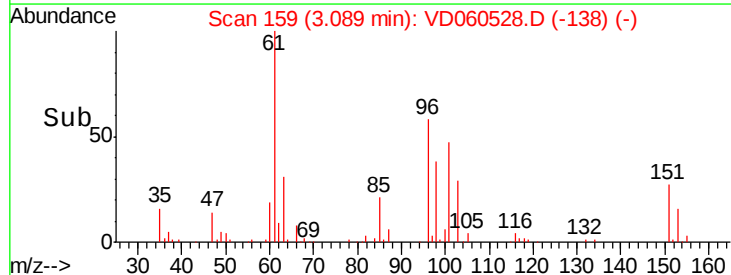
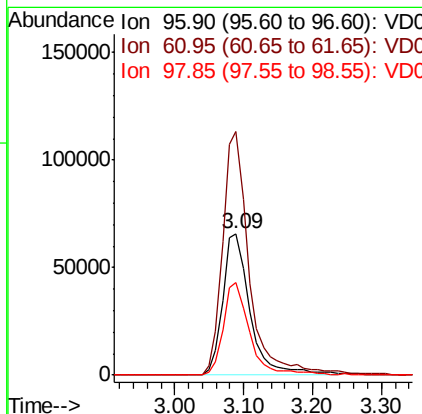
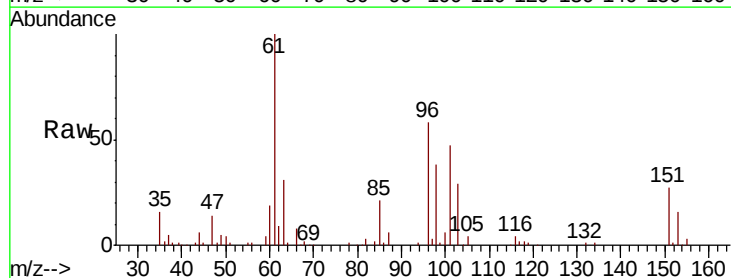
MMDadoda
12/12/2018 1:29:59 PM

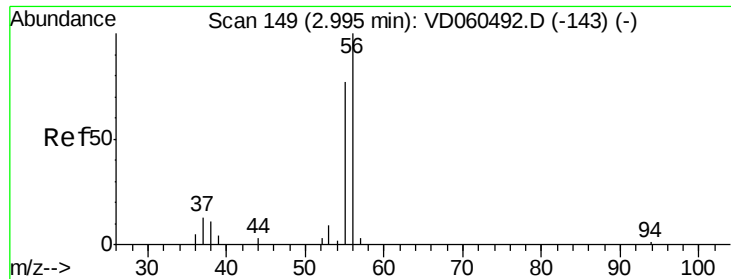


#12

1,1-Dichloroethene
Concen: 22.201 ug/l
RT: 3.09 min Scan# 159
Delta R.T. 0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.0	143.0	214.4
98	65.1	53.4	80.0





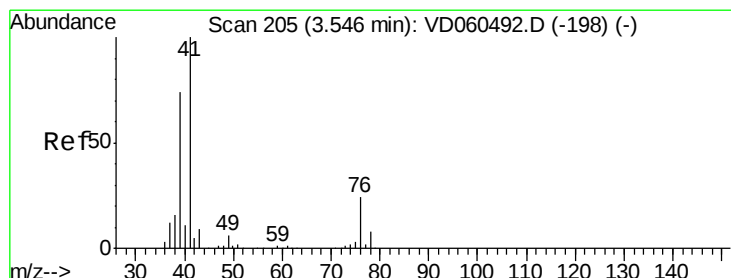
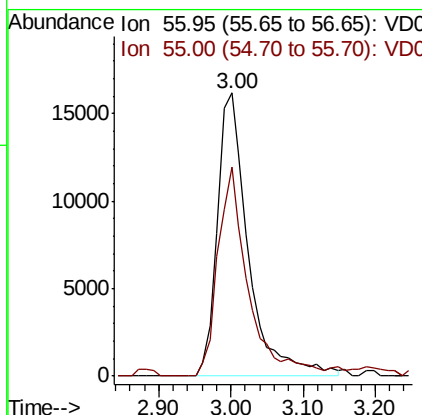
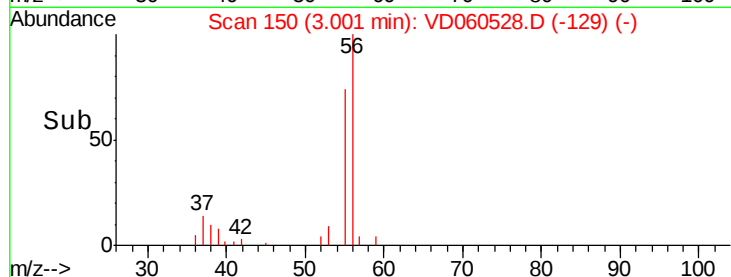
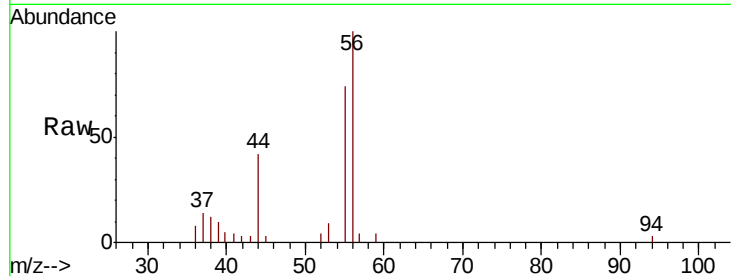
#13
Acrolein
Concen: 92.986 ug/l
RT: 3.00 min Scan# 150
Delta R.T. 0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion: 56 Resp: 47850
Ion Ratio Lower Upper
56 100
55 73.8 62.0 93.0

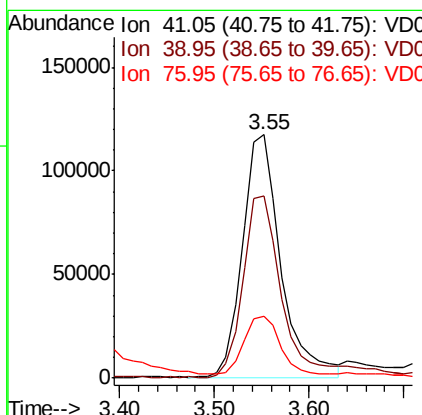
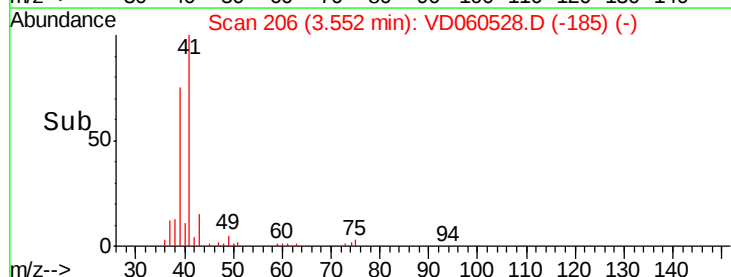
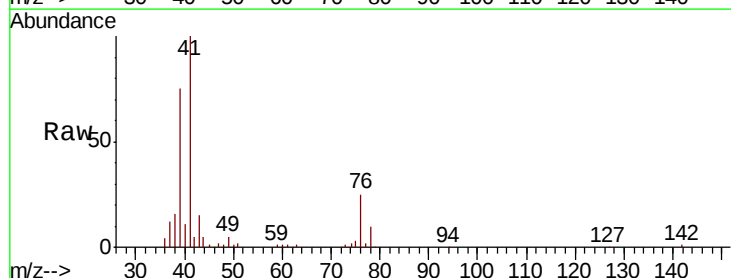
Manual Integrations
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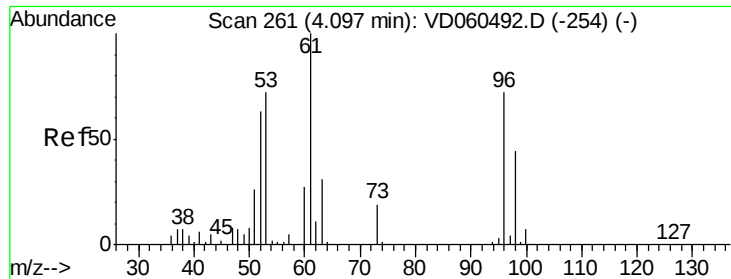
MMDadoda
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#14
Allyl chloride
Concen: 21.199 ug/l
RT: 3.55 min Scan# 206
Delta R.T. 0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion: 41 Resp: 328780
Ion Ratio Lower Upper
41 100
39 74.9 59.3 88.9
76 25.3 21.0 31.6





#15

Acrylonitrile

Concen: 104.599 ug/l

RT: 4.09 min Scan# 261

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

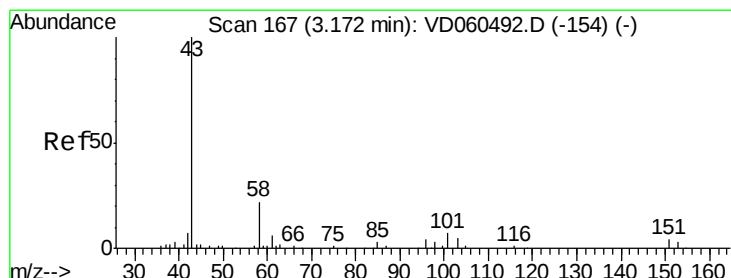
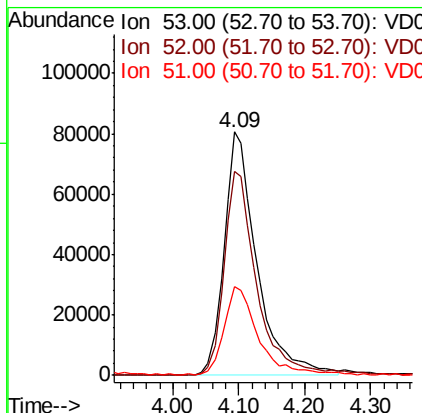
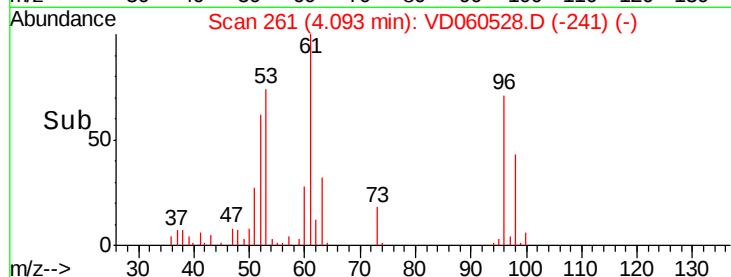
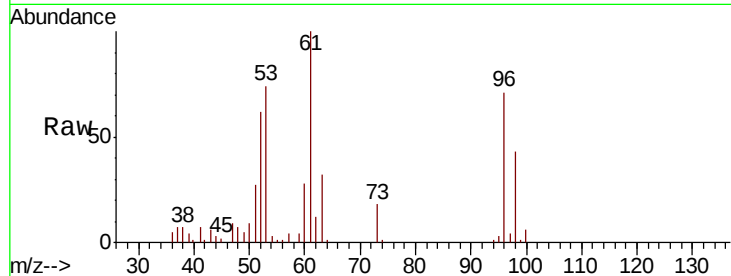
ClientSampleId :

VD1211SBS01

Tot Ion:	53	Resp:	279704
Ion Ratio	Lower	Upper	
53	100		
52	83.5	70.0	105.0
51	36.7	28.8	43.2

Manual Integrations
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12/12/2018 1:29:59 PM



#16

Acetone

Concen: 95.943 ug/l

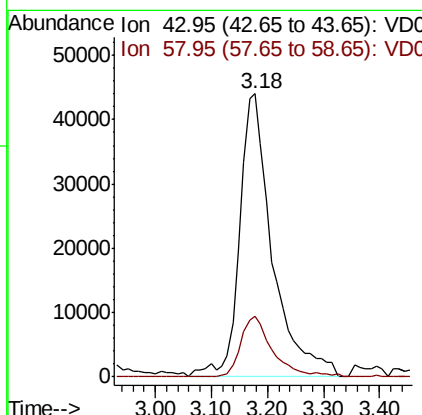
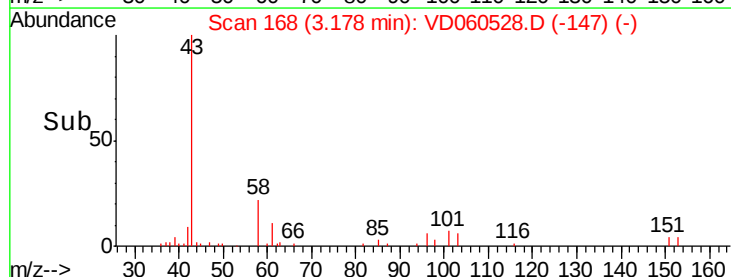
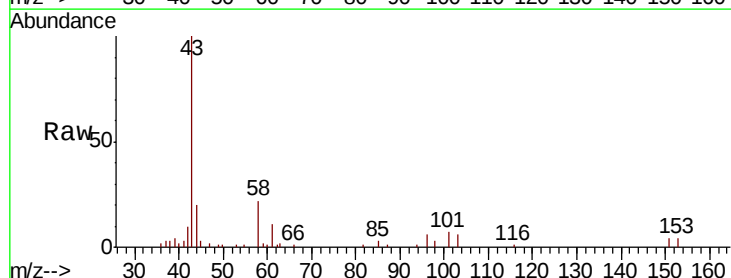
RT: 3.18 min Scan# 168

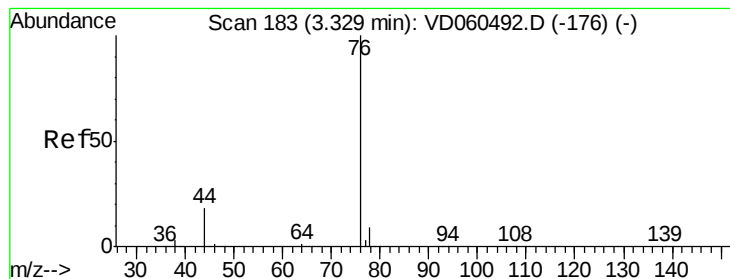
Delta R.T. 0.01 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Tgt Ion:	43	Resp:	178271
Ion Ratio	Lower	Upper	
43	100		
58	21.5	17.3	25.9





#17

Carbon Disulfide

Concen: 21.295 ug/l

RT: 3.33 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 76 Resp: 565454

Ion Ratio Lower Upper

76 100

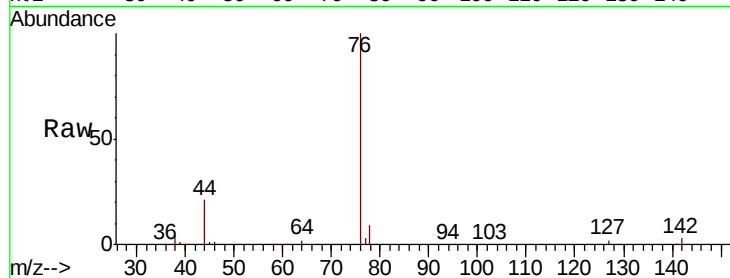
78 8.7 7.0 10.6

Manual Integrations

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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.33

250000

200000

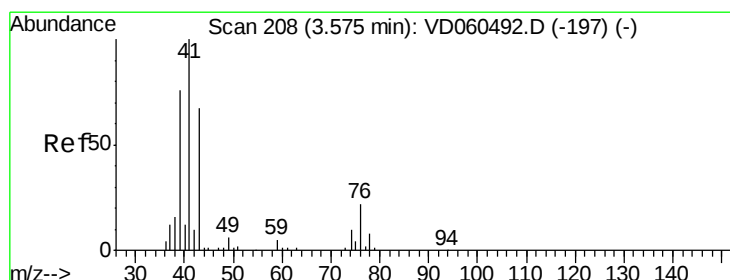
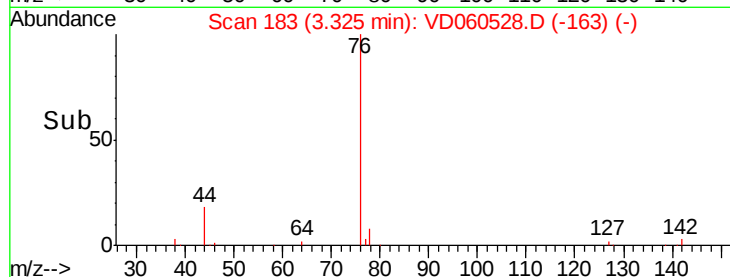
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.704 ug/l

RT: 3.57 min Scan# 208

Delta R.T. -0.00 min

Lab File: VD060528.D

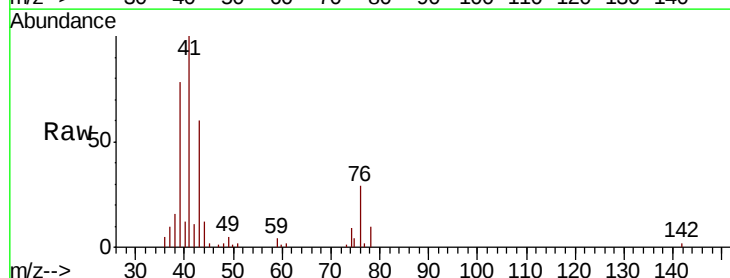
Acq: 11 Dec 2018 11:45

Tgt Ion: 43 Resp: 91429

Ion Ratio Lower Upper

43 100

74 15.5 12.0 18.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.57

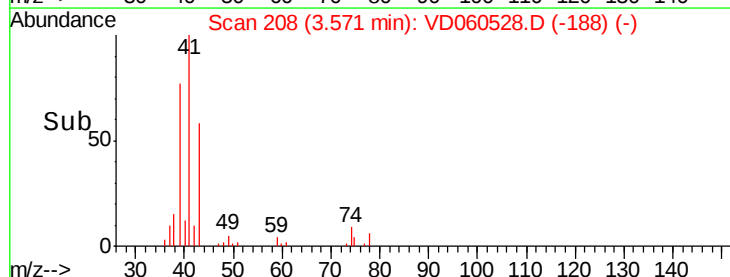
30000

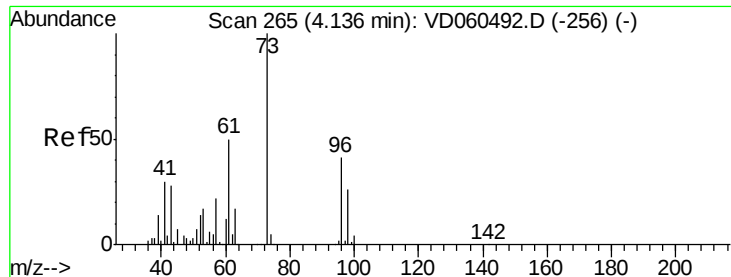
20000

10000

0

Time-->





#19

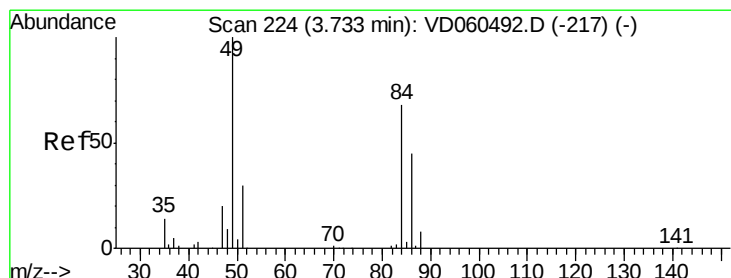
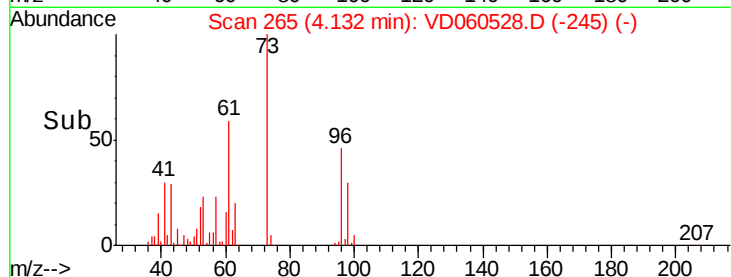
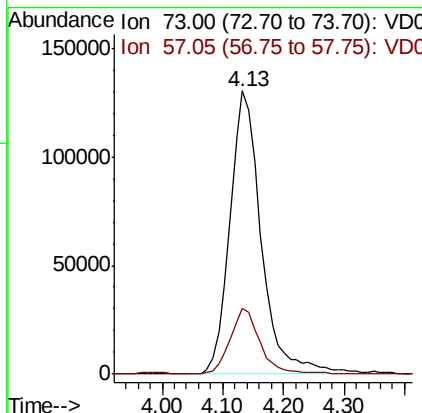
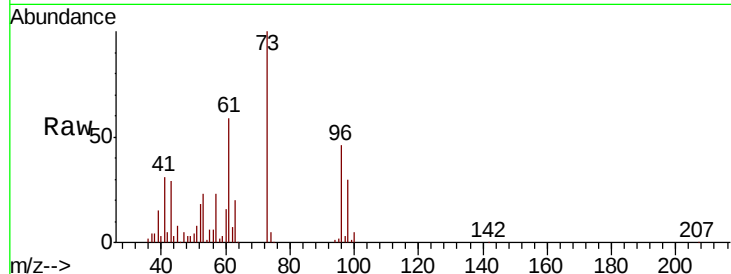
Methyl tert-butyl Ether
 Concen: 20.617 ug/l
 RT: 4.13 min Scan# 265
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion: 73 Resp: 467370
 Ion Ratio Lower Upper
 73 100
 57 23.2 17.8 26.6

Manual Integrations
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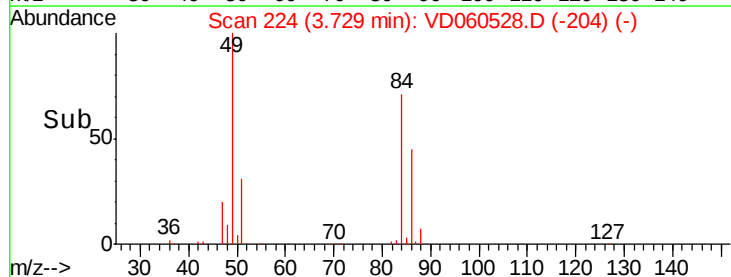
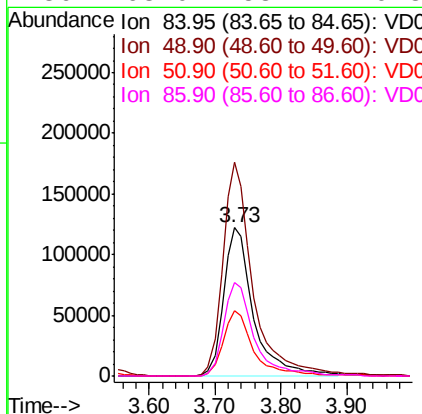
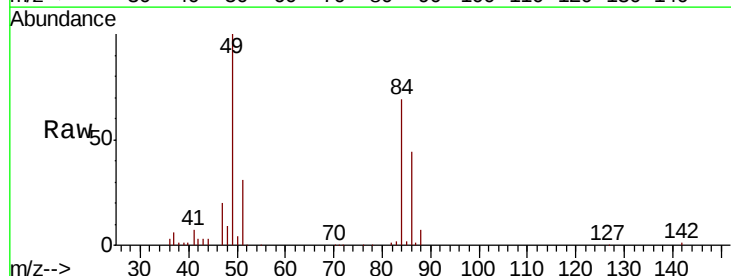
MMDadoda
 12/12/2018 1:29:59 PM

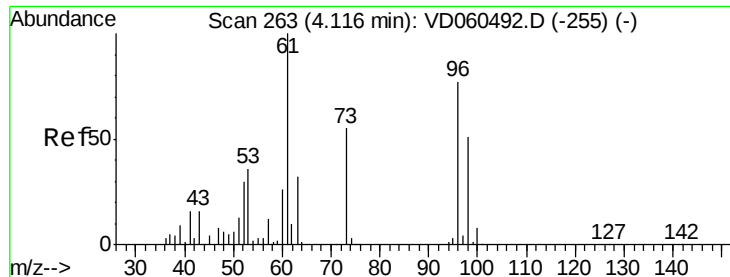


#20

Methylene Chloride
 Concen: 20.025 ug/l
 RT: 3.73 min Scan# 224
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion: 84 Resp: 387389
 Ion Ratio Lower Upper
 84 100
 49 144.2 117.2 175.8
 51 44.5 35.3 52.9
 86 63.0 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 21.014 ug/l

RT: 4.11 min Scan# 263

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 96 Resp: 373666

Ion Ratio Lower Upper

96 100

61 129.3 104.2 156.4

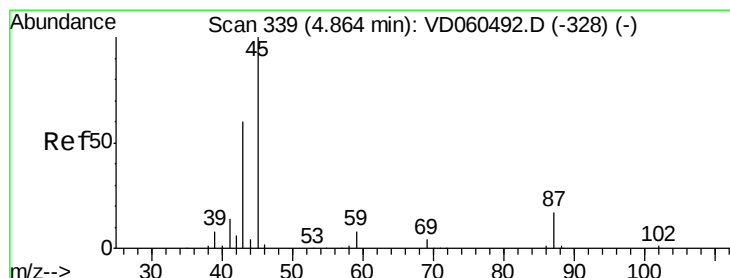
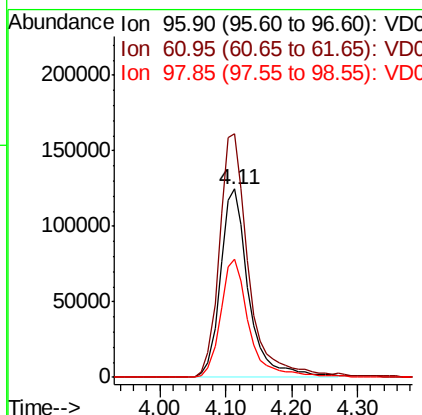
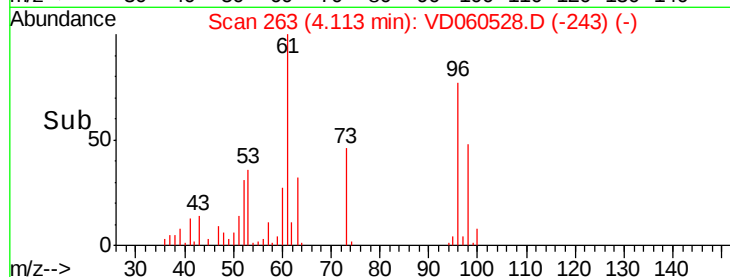
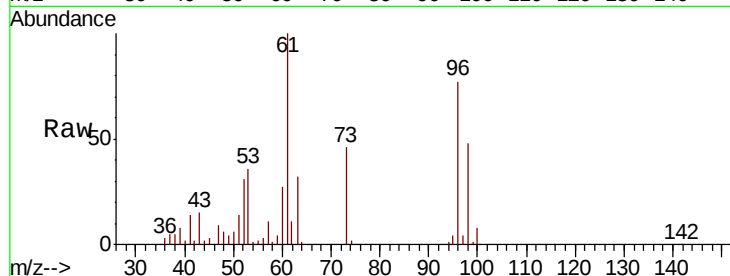
98 62.4 52.8 79.2

Manual Integrations

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12/12/2018 1:29:59 PM



#22

Diisopropyl ether

Concen: 21.033 ug/l

RT: 4.86 min Scan# 339

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Tgt Ion: 45 Resp: 1171204

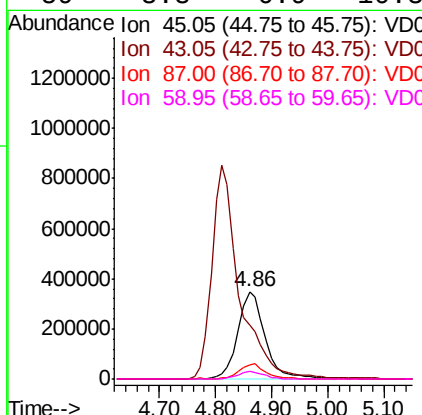
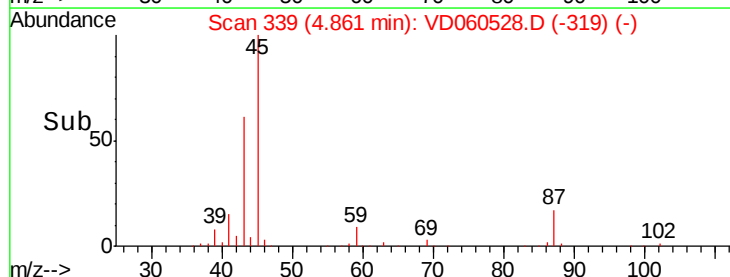
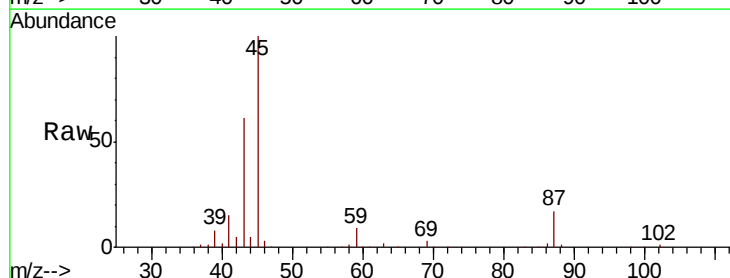
Ion Ratio Lower Upper

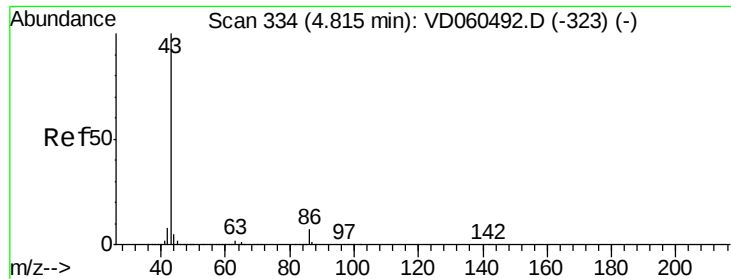
45 100

43 61.4 48.6 73.0

87 16.5 14.0 21.0

59 8.8 6.9 10.3





#23

Vinyl Acetate

Concen: 105.732 ug/l

RT: 4.81 min Scan# 334

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 43 Resp: 2917072

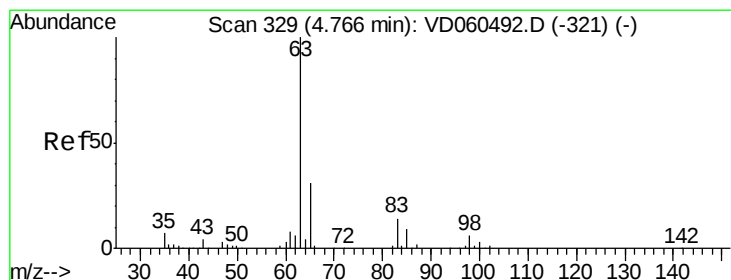
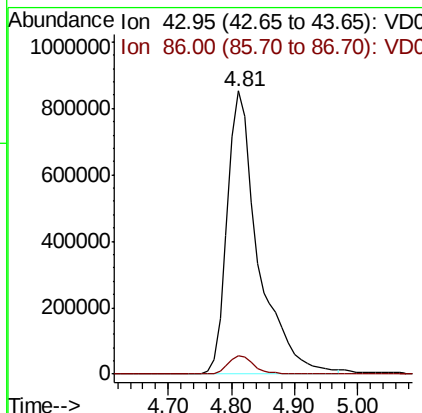
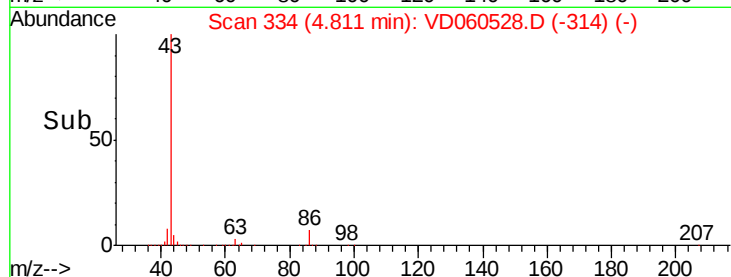
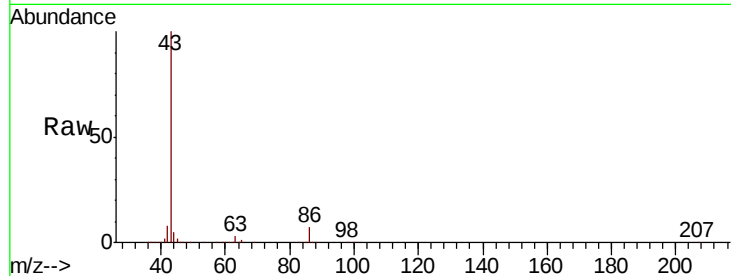
Ion Ratio Lower Upper

43 100

86 6.6 5.5 8.3

Manual Integrations
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12/12/2018 1:29:59 PM



#24

1,1-Dichloroethane

Concen: 21.239 ug/l

RT: 4.76 min Scan# 329

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

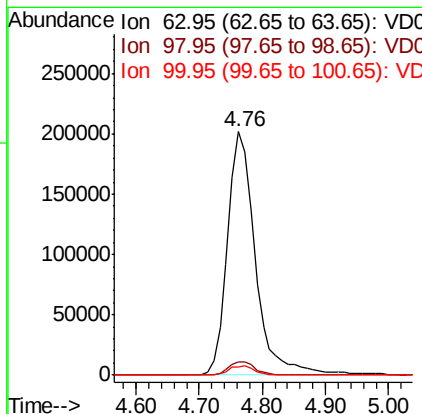
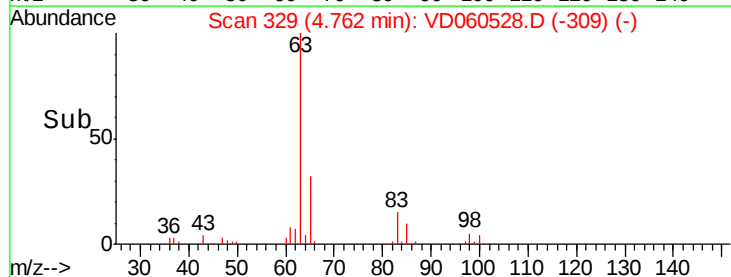
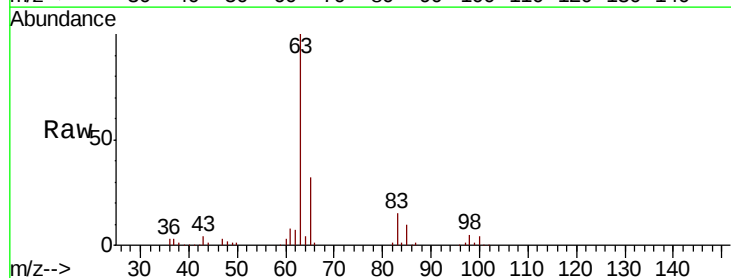
Tgt Ion: 63 Resp: 614404

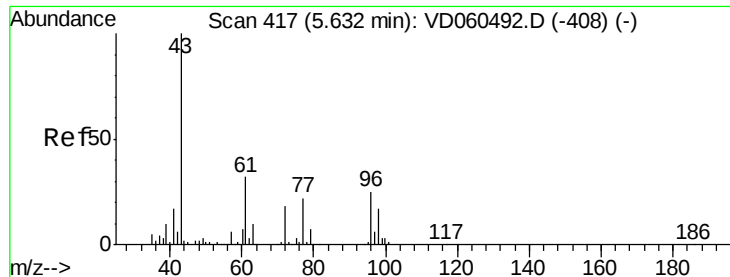
Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.3

100 3.6 1.7 5.1





#25

2-Butanone

Concen: 98.161 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 43 Resp: 358838

Ion Ratio Lower Upper

43 100

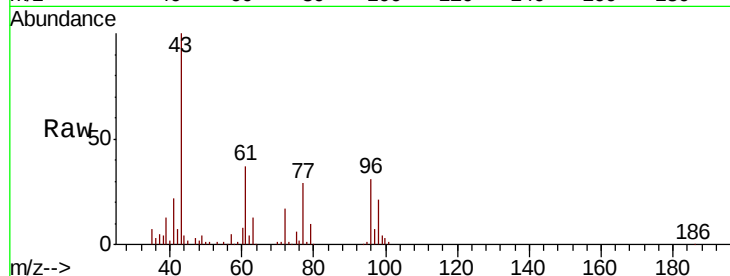
72 17.1 14.6 21.8

Manual Integrations

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MMDadoda

12/12/2018 1:29:59 PM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

150000

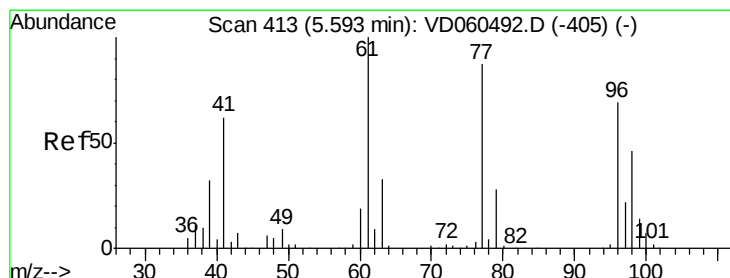
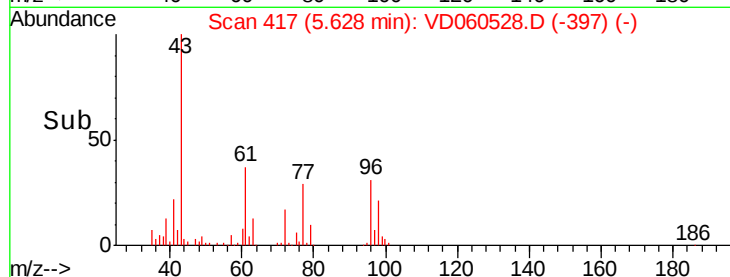
100000

50000

0

5.50 5.55 5.60 5.65 5.70

Time-->



#26

2,2-Dichloropropane

Concen: 22.283 ug/l

RT: 5.59 min Scan# 413

Delta R.T. -0.00 min

Lab File: VD060528.D

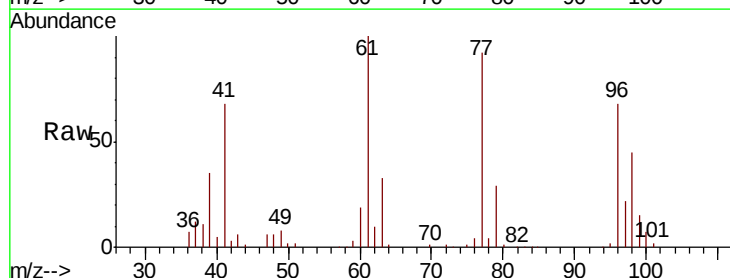
Acq: 11 Dec 2018 11:45

Tgt Ion: 77 Resp: 497964

Ion Ratio Lower Upper

77 100

97 24.3 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

150000

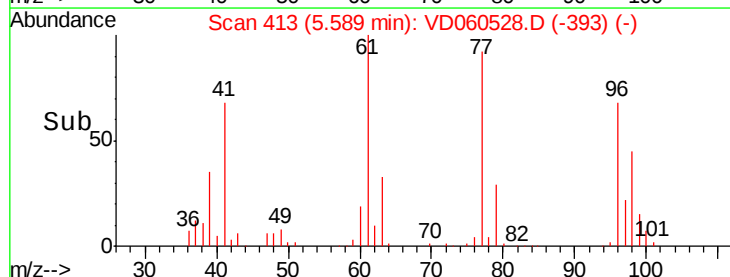
100000

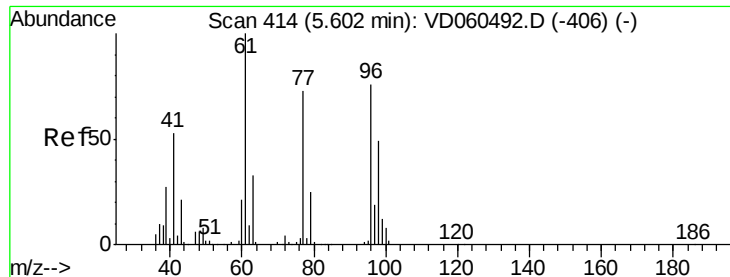
50000

0

5.40 5.50 5.60 5.70 5.80

Time-->





#27

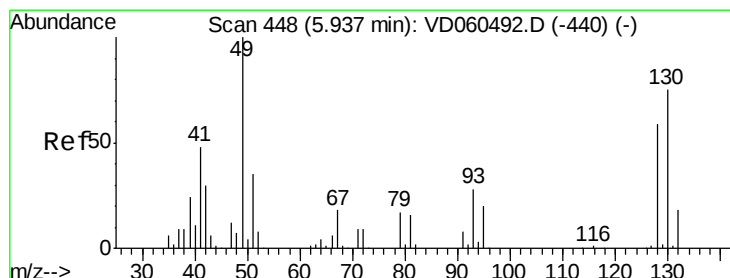
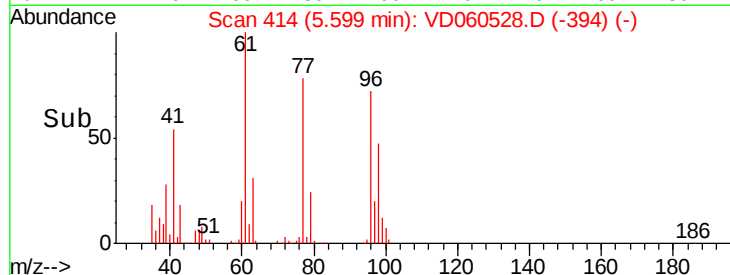
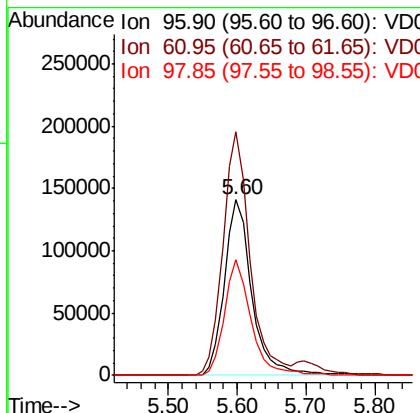
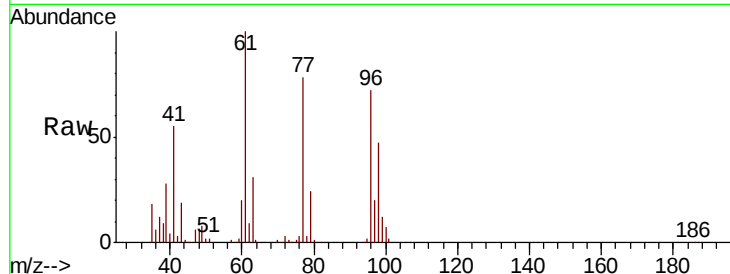
cis-1,2-Dichloroethene
 Concen: 21.435 ug/l
 RT: 5.60 min Scan# 414
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	387530		
61	138.6	0.0	263.6	
98	65.5	0.0	128.2	

Manual Integrations
 APPROVED

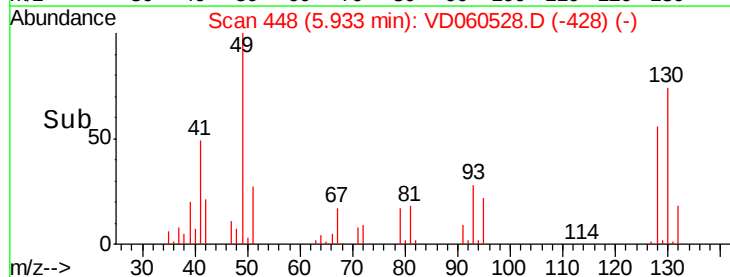
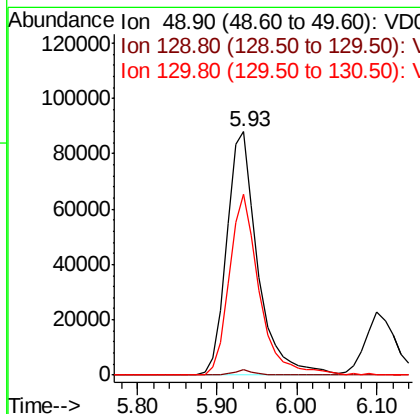
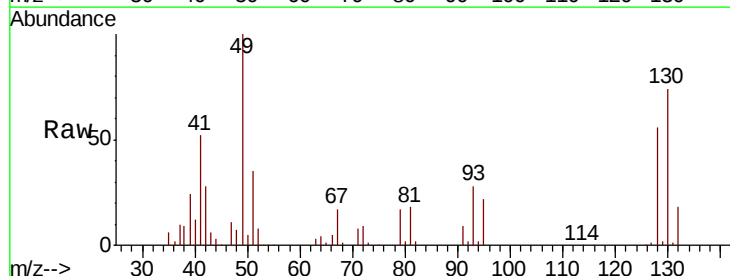
MMDadoda
 12/12/2018 1:29:59 PM



#28

Bromochloromethane
 Concen: 18.683 ug/l
 RT: 5.93 min Scan# 448
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	239427		
129	2.2	0.0	3.4	
130	74.0	59.8	89.6	





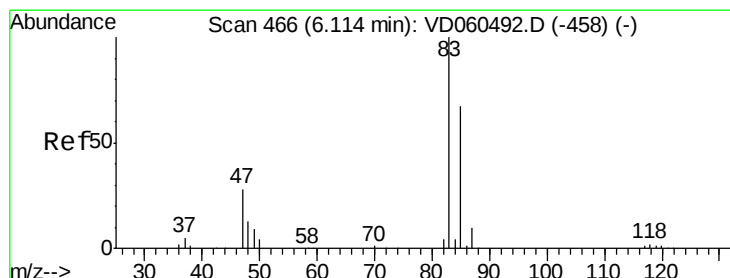
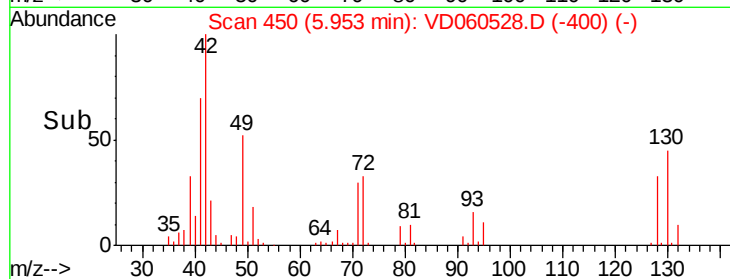
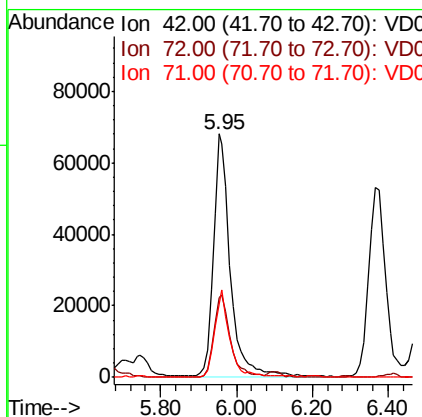
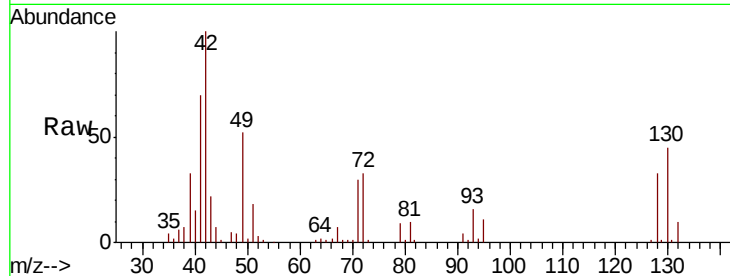
#29
Tetrahydrofuran
Concen: 105.654 ug/l
RT: 5.95 min Scan# 450
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.7	28.0	42.0
71	31.5	27.2	40.8

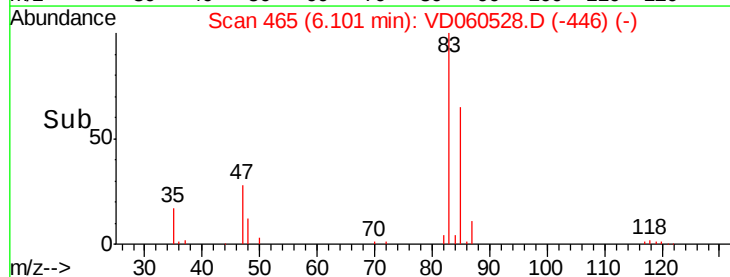
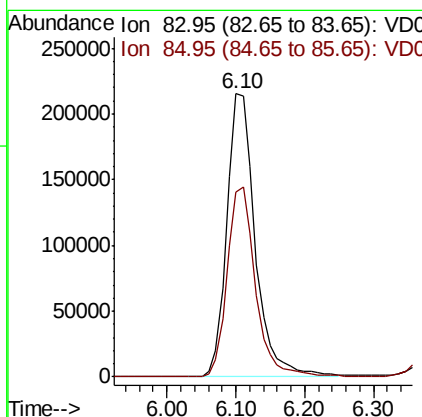
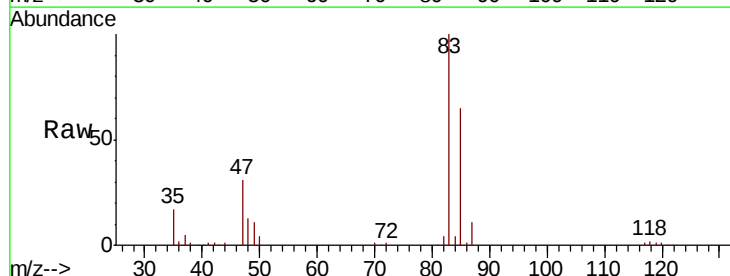
Manual Integrations
APPROVED

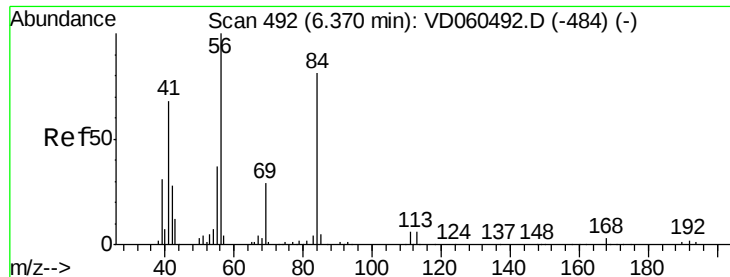
MMDadoda
12/12/2018 1:29:59 PM



#30
Chloroform
Concen: 21.181 ug/l
RT: 6.10 min Scan# 465
Delta R.T. -0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	53.4	80.2





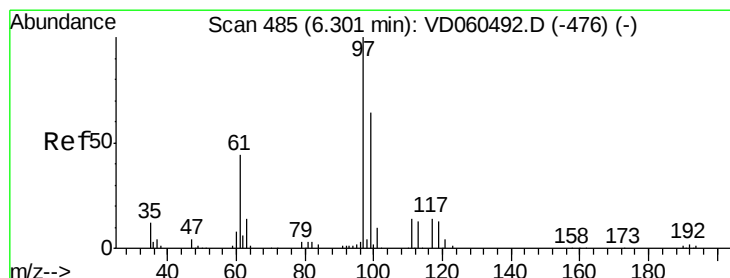
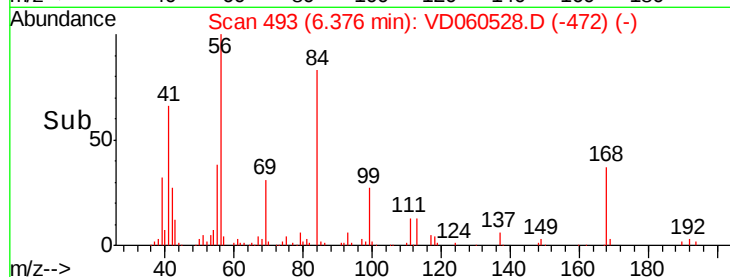
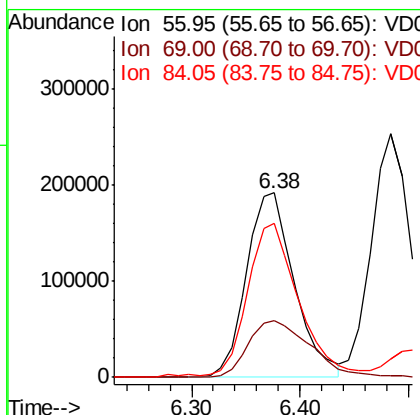
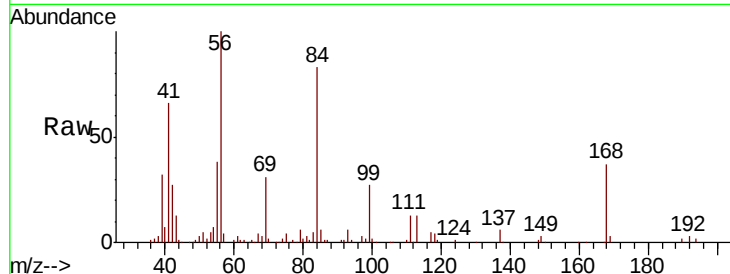
#31
Cyclohexane
Concen: 21.784 ug/l
RT: 6.38 min Scan# 493
Delta R.T. 0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.8	22.8	34.2
84	83.4	65.1	97.7

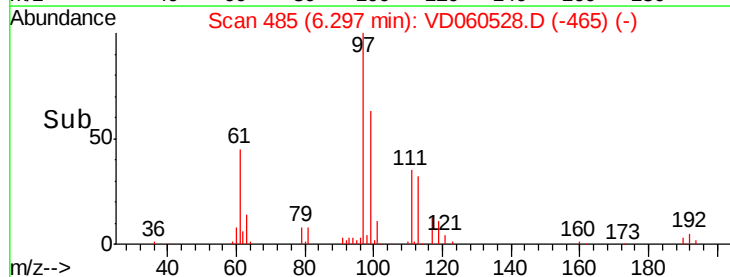
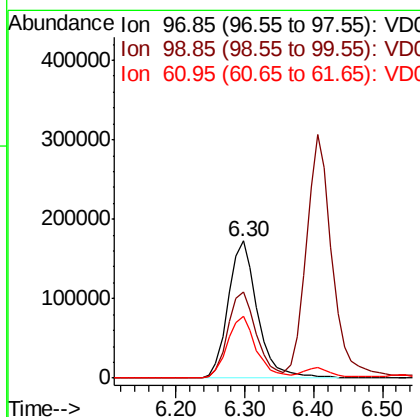
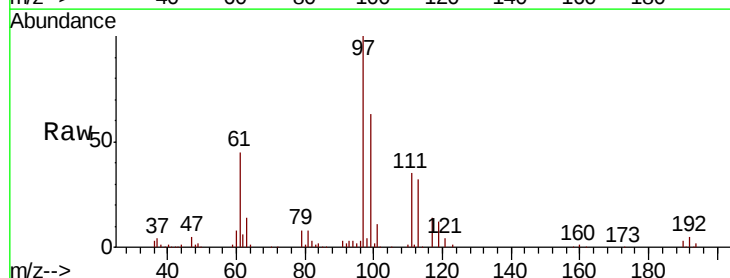
Manual Integrations
APPROVED

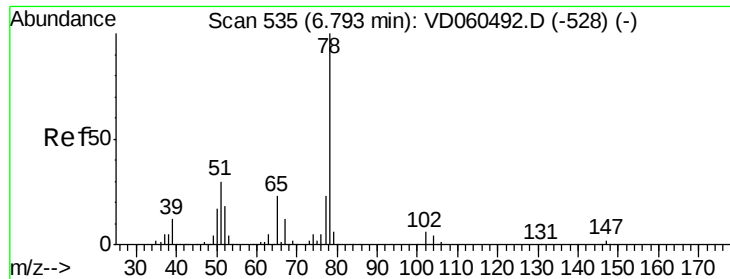
MMDadoda
12/12/2018 1:29:59 PM



#32
1,1,1-Trichloroethane
Concen: 21.171 ug/l
RT: 6.30 min Scan# 485
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.0	76.4
61	44.7	35.3	52.9





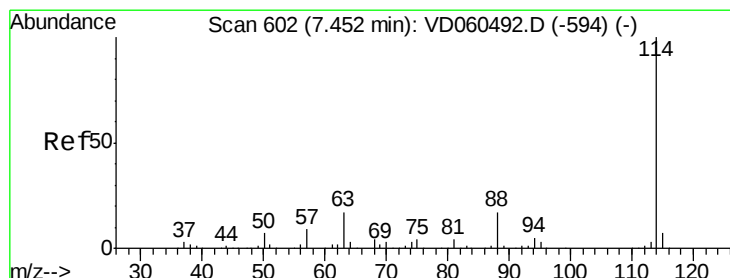
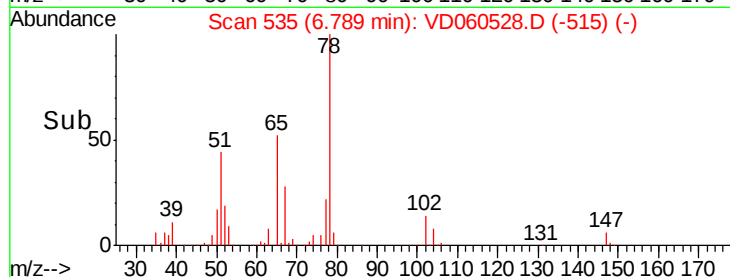
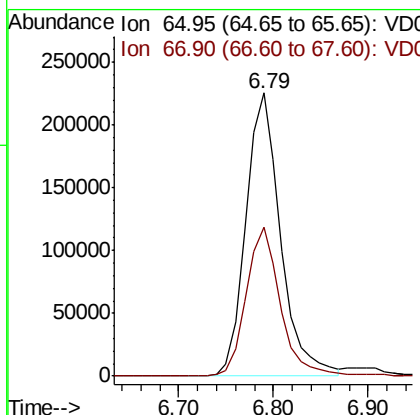
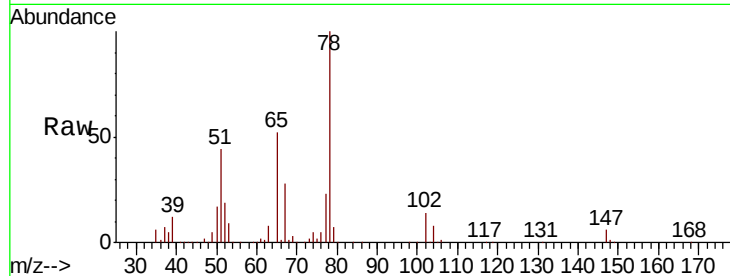
#33
 1,2-Dichloroethane-d4
 Concen: 21.171 ug/l
 RT: 6.79 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.8

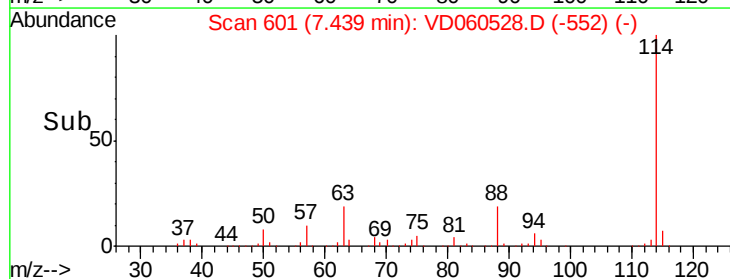
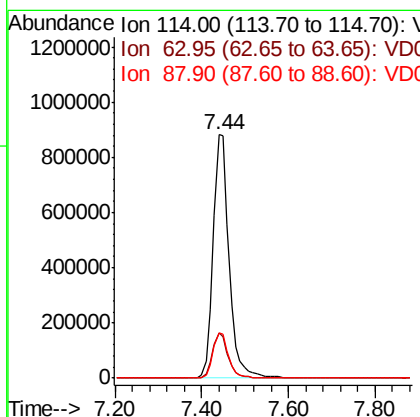
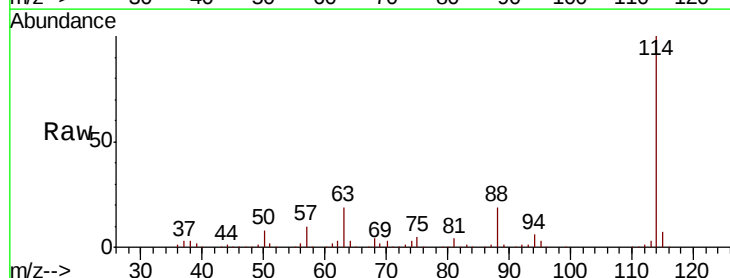
Manual Integrations
 APPROVED

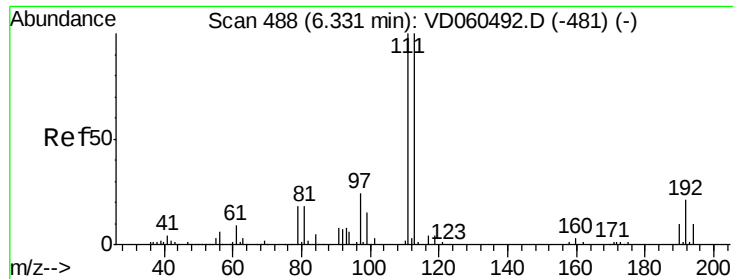
MMDadoda
 12/12/2018 1:29:59 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.44 min Scan# 601
 Delta R.T. -0.01 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.7	0.0	34.2
88	18.8	0.0	35.0





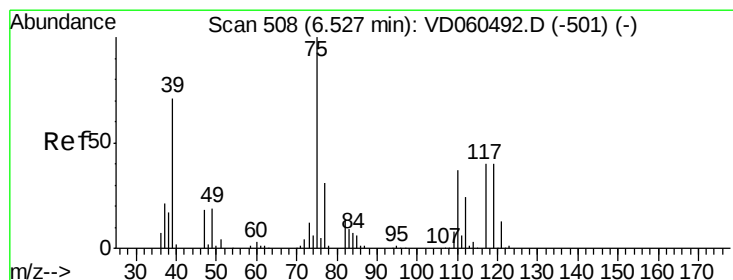
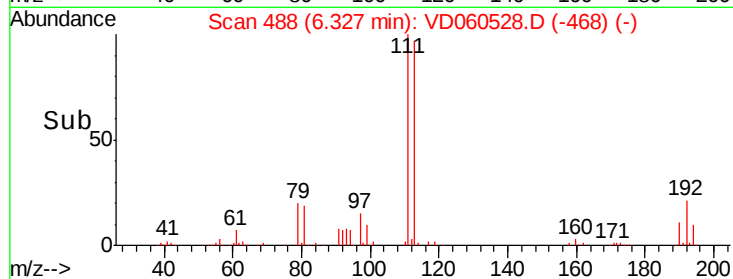
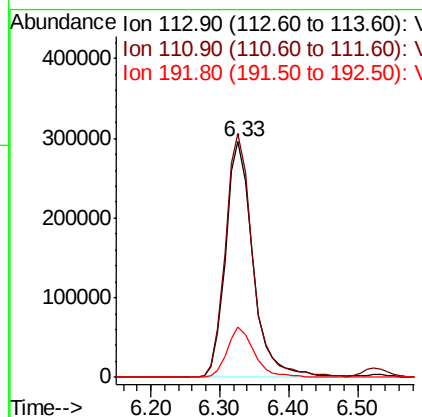
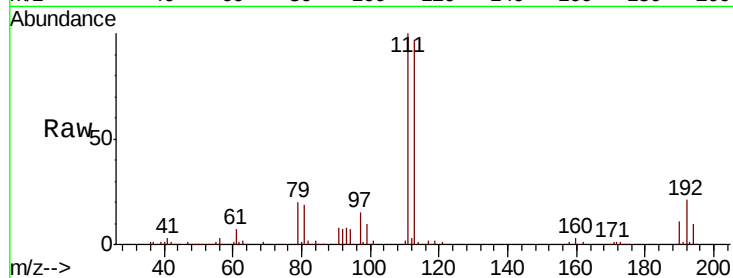
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.33 min Scan# 488
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	815753		
111	103.5	80.2	120.4	
192	21.5	16.6	24.8	

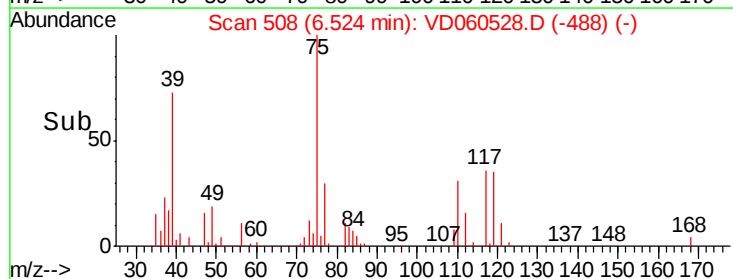
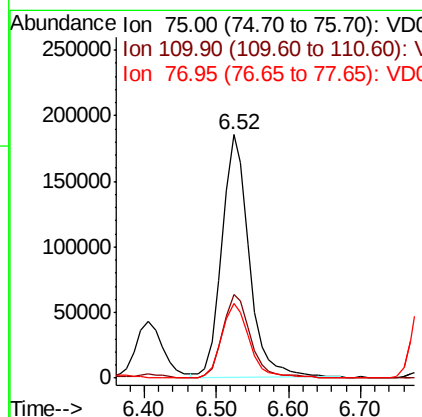
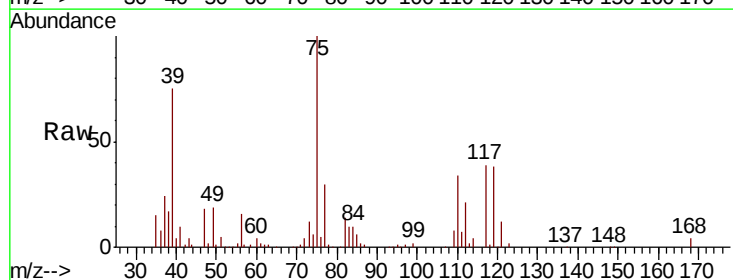
Manual Integrations
 APPROVED

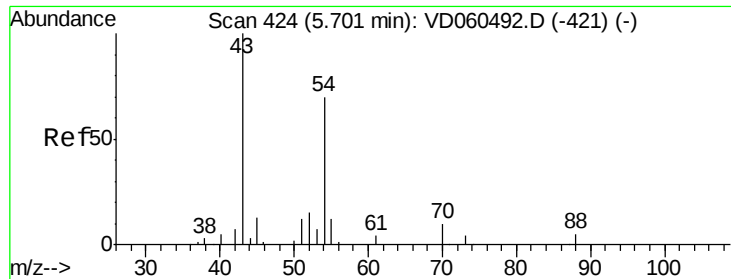
MMDadoda
 12/12/2018 1:29:59 PM



#36
 1,1-Dichloropropene
 Concen: 21.805 ug/l
 RT: 6.52 min Scan# 508
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	480260		
110	34.5	18.3	54.8	
77	30.4	24.6	37.0	





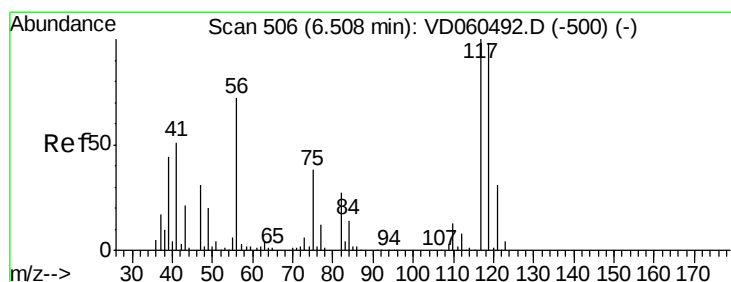
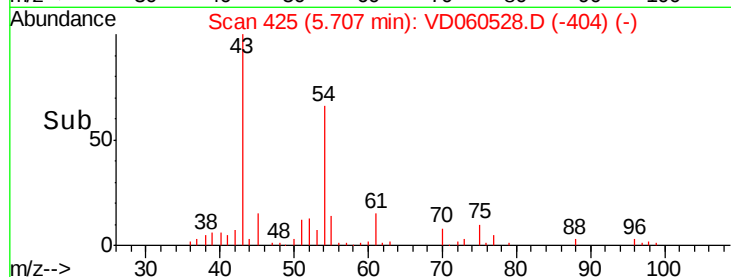
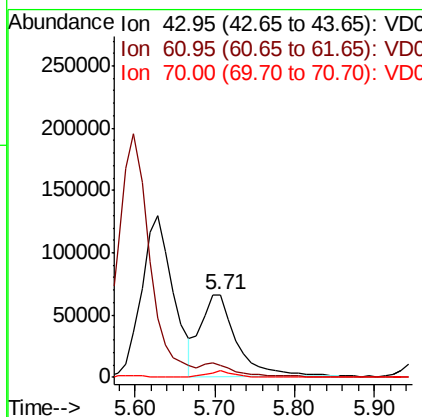
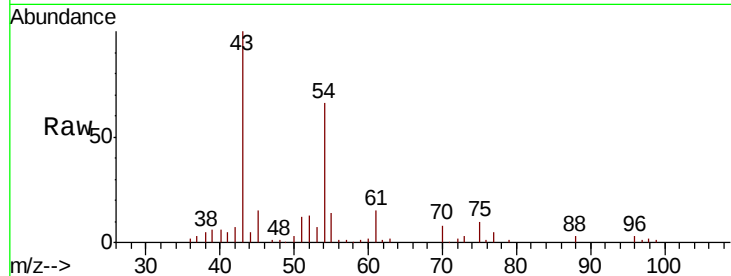
#37
Ethyl Acetate
Concen: 21.139 ug/l
RT: 5.71 min Scan# 425
Delta R.T. 0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.4	18.6
70	7.8	5.4	8.0

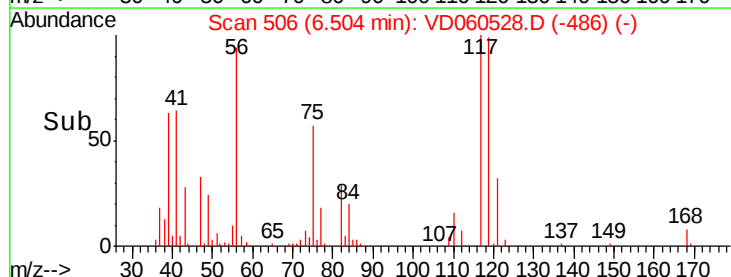
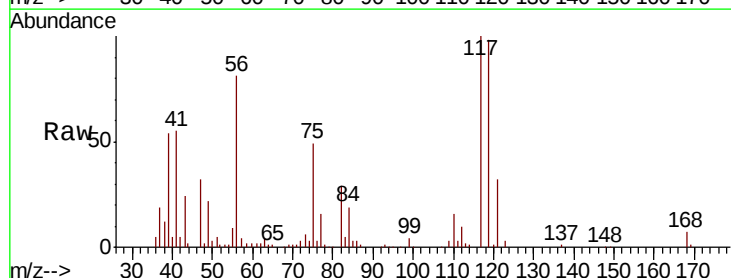
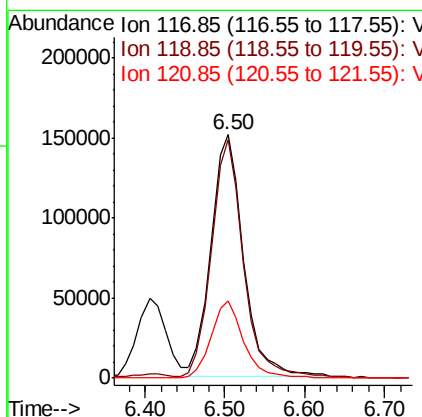
Manual Integrations
APPROVED

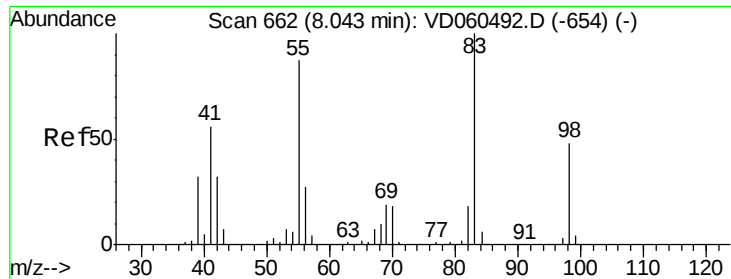
MMDadoda
12/12/2018 1:29:59 PM



#38
Carbon Tetrachloride
Concen: 21.762 ug/l
RT: 6.50 min Scan# 506
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.1	76.8	115.2
121	31.5	24.4	36.6





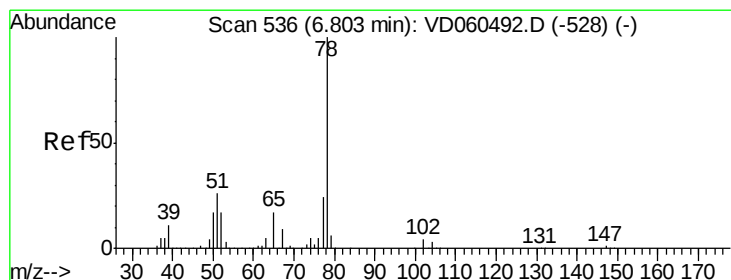
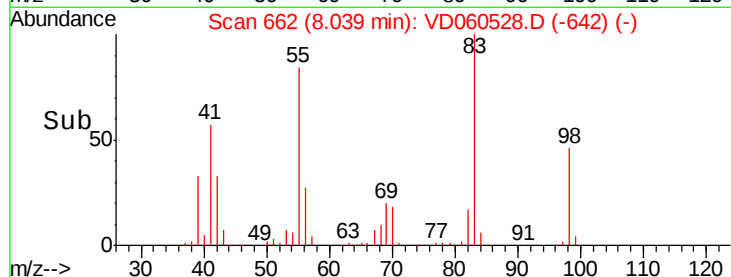
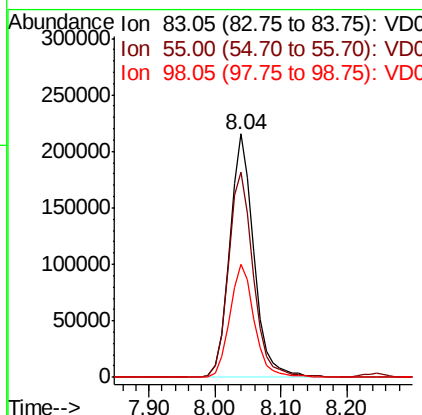
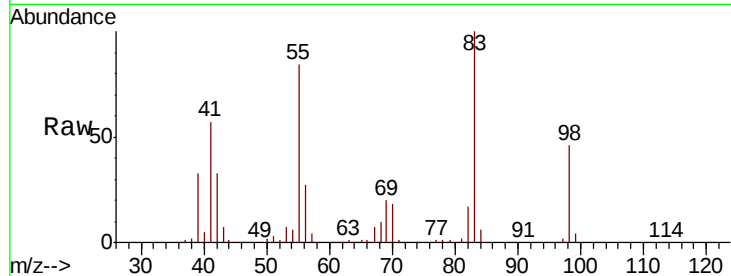
#39
Methvlcvclohexane
Concen: 22.089 ug/l
RT: 8.04 min Scan# 662
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	554631		
55	84.2	69.8	104.8	
98	46.5	38.4	57.6	

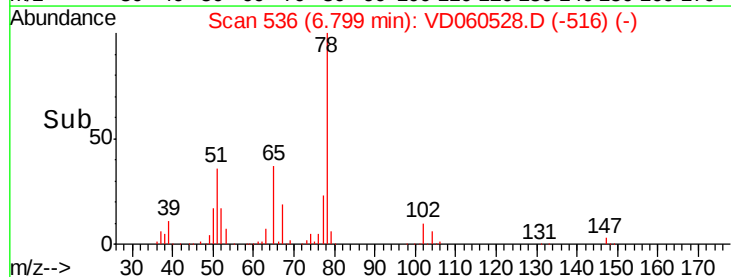
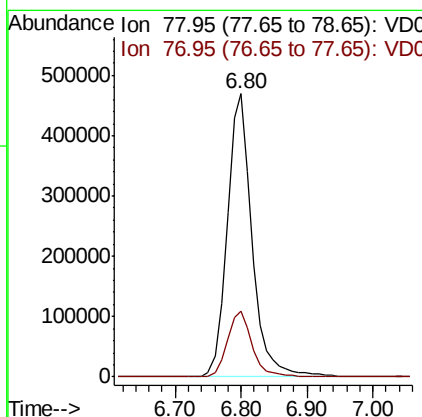
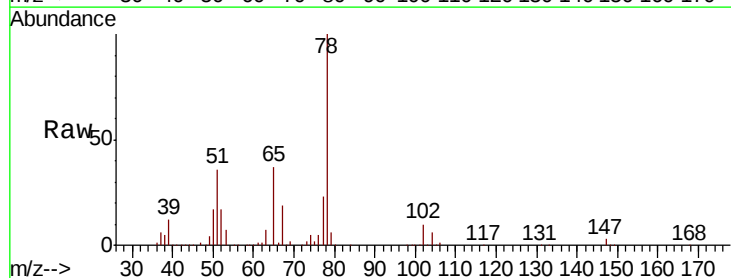
Manual Integrations
APPROVED

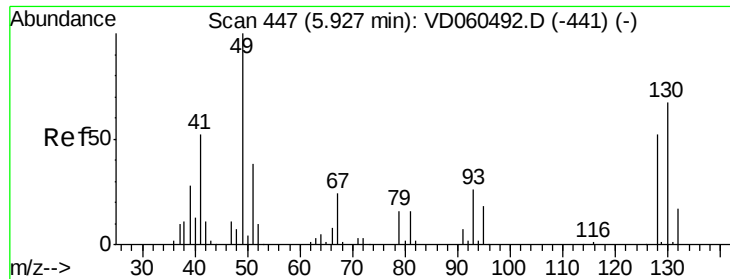
MMDadoda
12/12/2018 1:29:59 PM



#40
Benzene
Concen: 21.921 ug/l
RT: 6.80 min Scan# 536
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1233969		
77	23.2	18.9	28.3	





#41

Methacrylonitrile

Concen: 24.113 ug/l m

RT: 5.93 min Scan# 448

Delta R.T. 0.01 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 41 Resp: 124166

Ion Ratio Lower Upper

41 100

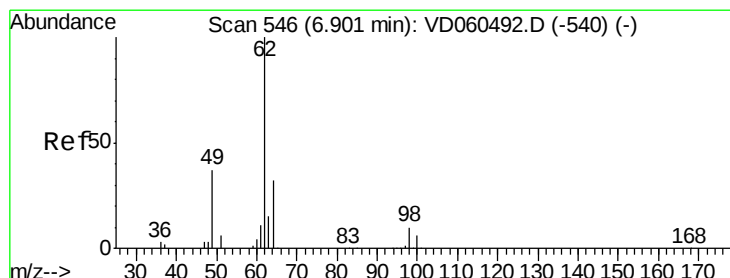
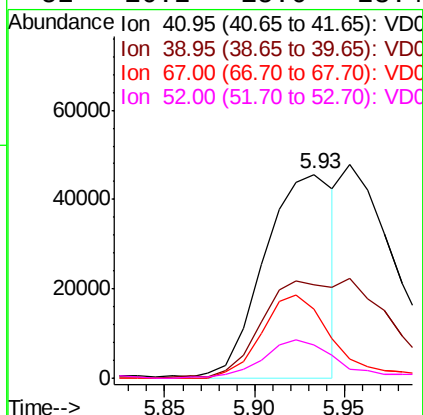
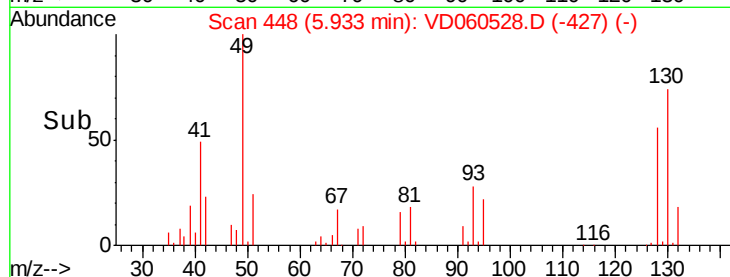
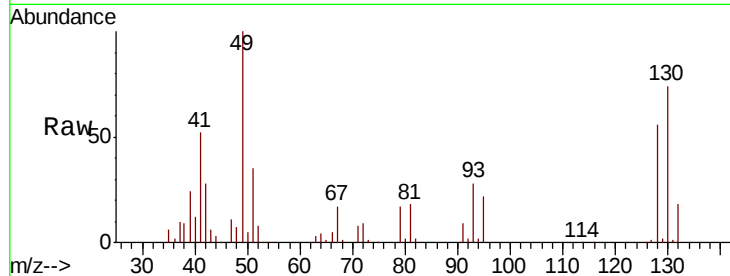
39 45.8 42.6 63.8

67 33.6 36.2 54.4#

52 16.2 15.6 23.4

Manual Integrations
APPROVED

MMDadoda
12/12/2018 1:29:59 PM



#42

1,2-Dichloroethane

Concen: 21.609 ug/l

RT: 6.90 min Scan# 546

Delta R.T. -0.00 min

Lab File: VD060528.D

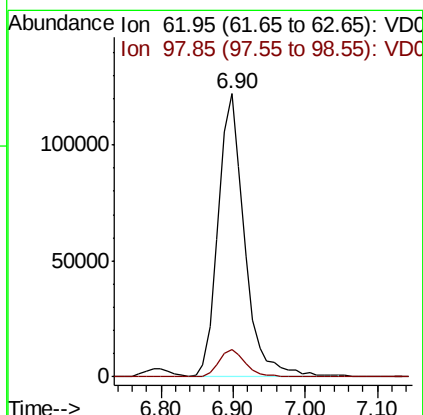
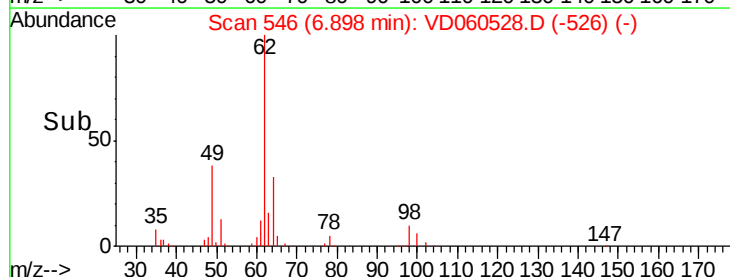
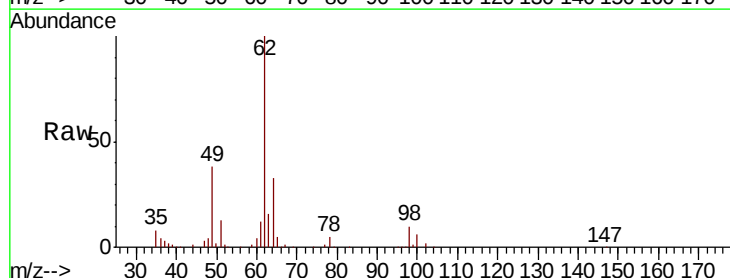
Acq: 11 Dec 2018 11:45

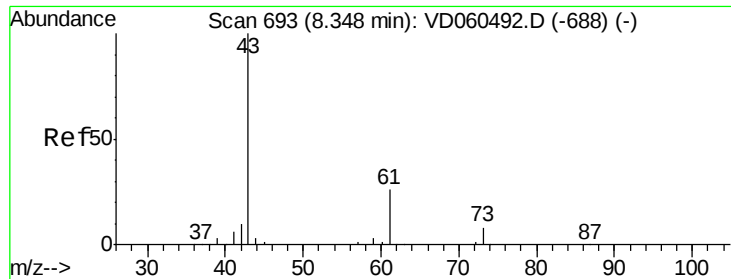
Tgt Ion: 62 Resp: 309277

Ion Ratio Lower Upper

62 100

98 9.7 0.0 20.2





#43

Isopropyl Acetate

Concen: 20.516 ug/l

RT: 8.34 min Scan# 693

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

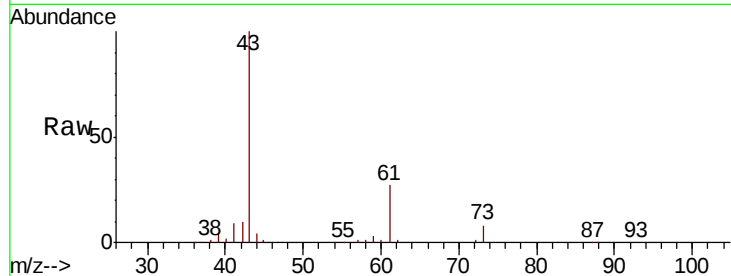
ClientSampleId :

VD1211SBS01

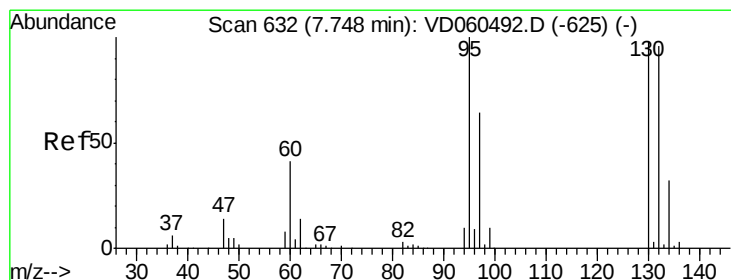
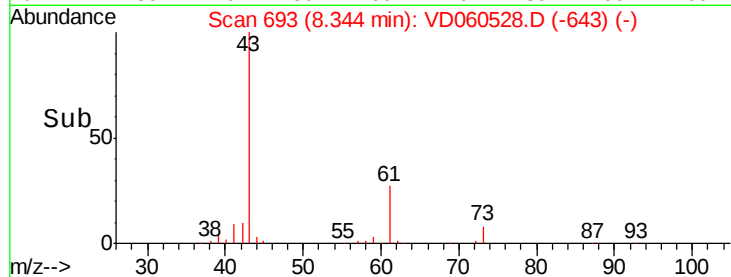
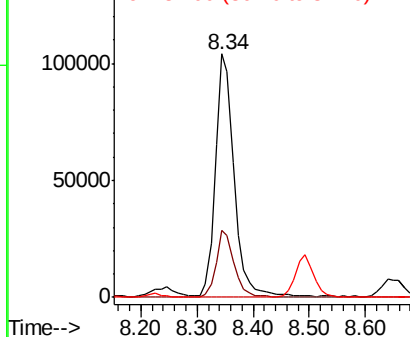
Tot Ion:	43	Resp:	241915
Ion Ratio	Lower	Upper	
43	100		
61	27.3	21.0	31.4
87	0.3	0.2	0.2#

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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: 21.331 ug/l

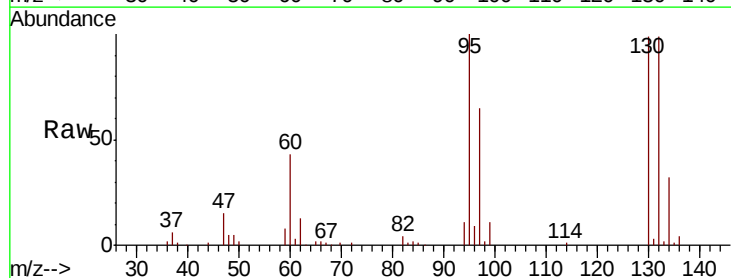
RT: 7.74 min Scan# 632

Delta R.T. -0.00 min

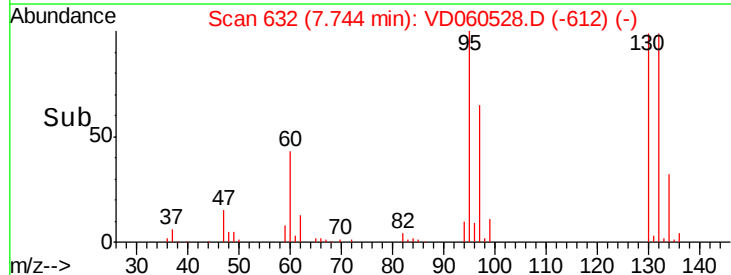
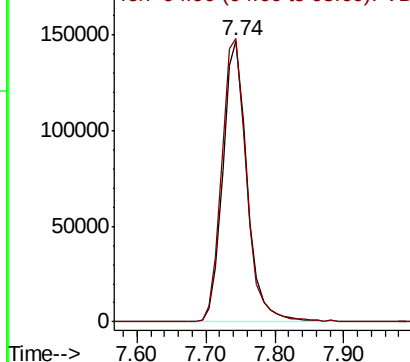
Lab File: VD060528.D

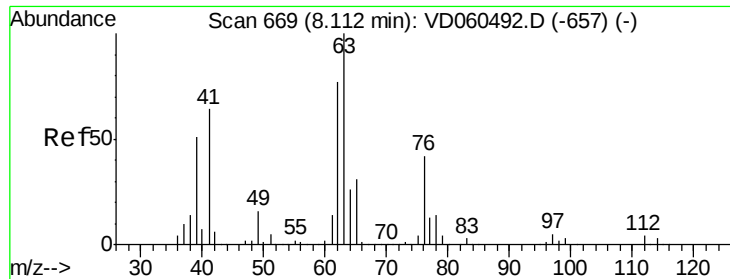
Acq: 11 Dec 2018 11:45

Tgt Ion:	130	Resp:	358851
Ion Ratio	Lower	Upper	
130	100		
95	100.8	0.0	203.8



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





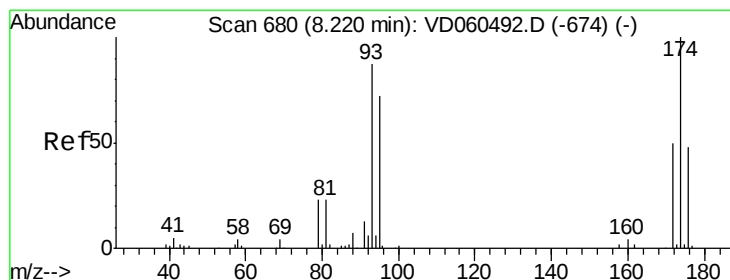
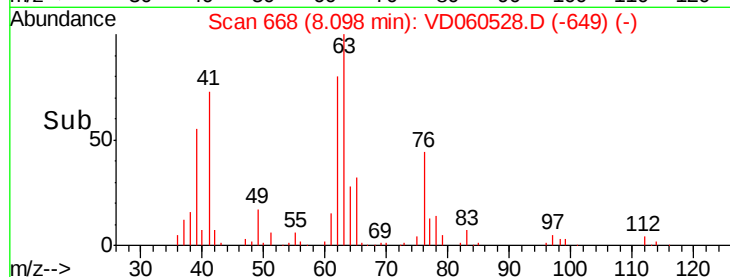
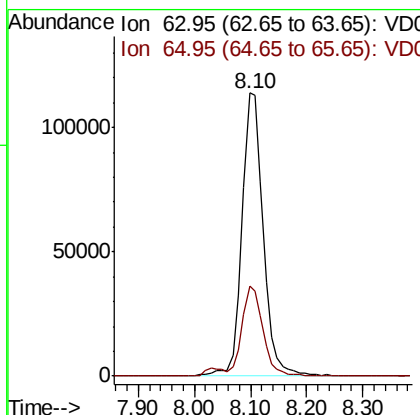
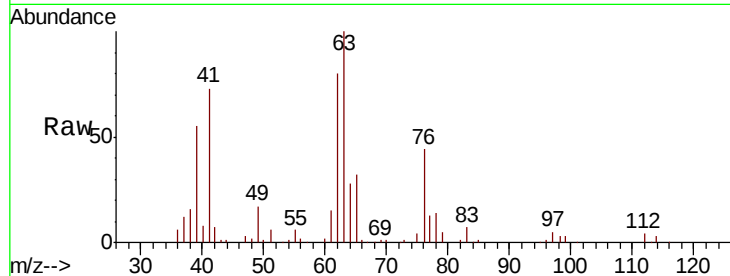
#45
 1,2-Dichloropropane
 Concen: 21.500 ug/l
 RT: 8.10 min Scan# 668
 Delta R.T. -0.01 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion: 63 Resp: 299332
 Ion Ratio Lower Upper
 63 100
 65 31.8 24.6 37.0

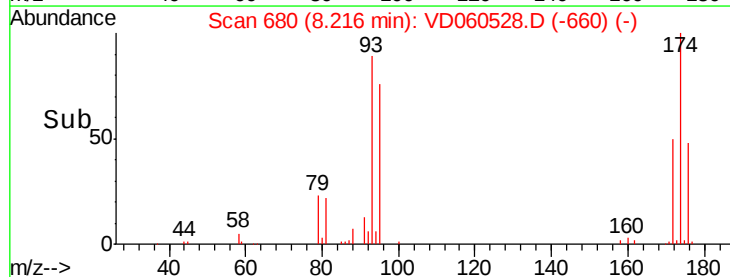
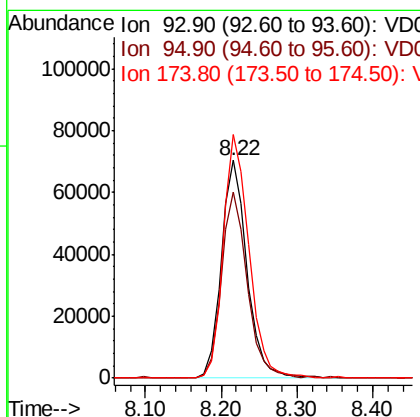
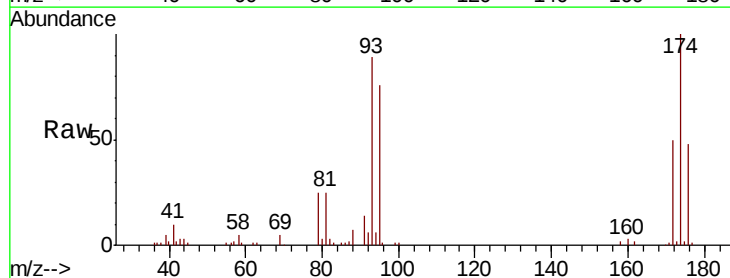
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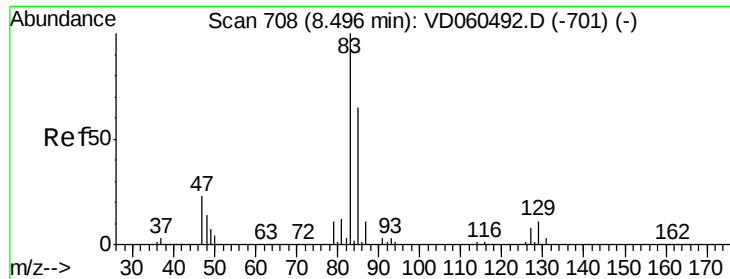
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#46
 Dibromomethane
 Concen: 20.545 ug/l
 RT: 8.22 min Scan# 680
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion: 93 Resp: 165258
 Ion Ratio Lower Upper
 93 100
 95 85.3 65.6 98.4
 174 111.8 91.7 137.5





#47

Bromodichloromethane

Concen: 21.503 ug/l

RT: 8.49 min Scan# 708

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

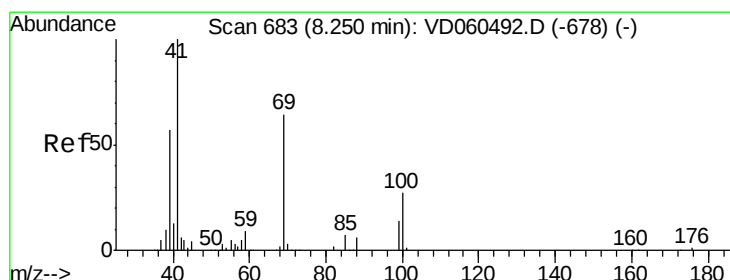
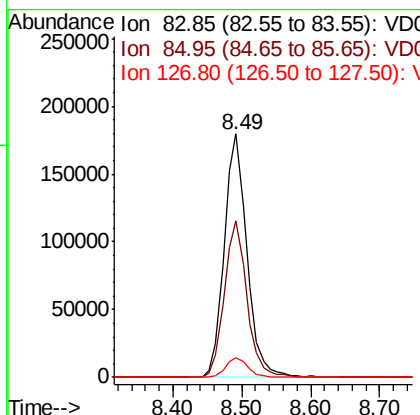
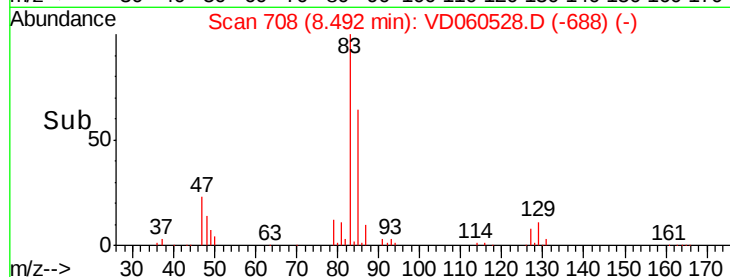
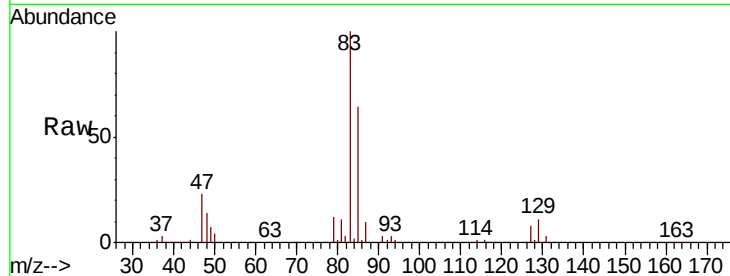
ClientSampleId :

VD1211SBS01

Tot Ion:	83	Resp:	410406
Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.2	78.4
127	8.0	6.7	10.1

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#48

Methyl methacrylate

Concen: 21.199 ug/l

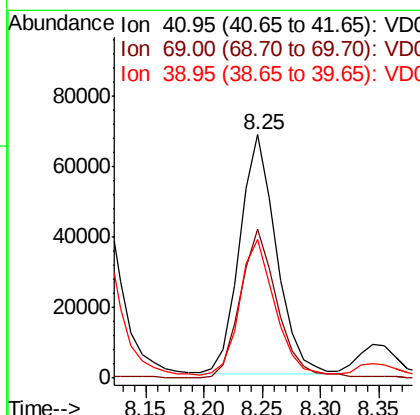
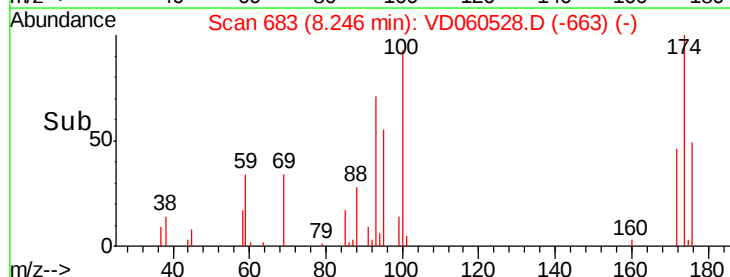
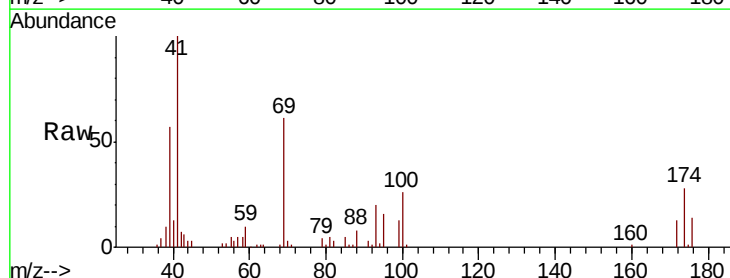
RT: 8.25 min Scan# 683

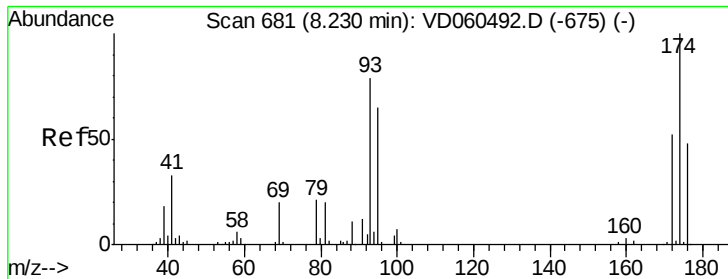
Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Tgt Ion:	41	Resp:	147907
Ion	Ratio	Lower	Upper
41	100		
69	61.3	50.2	75.4
39	56.9	46.1	69.1





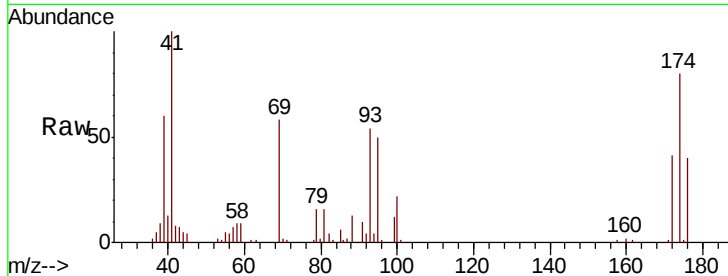
#49
1,4-Dioxane
Concen: 425.021 ug/l
RT: 8.24 min Scan# 682
Delta R.T. 0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

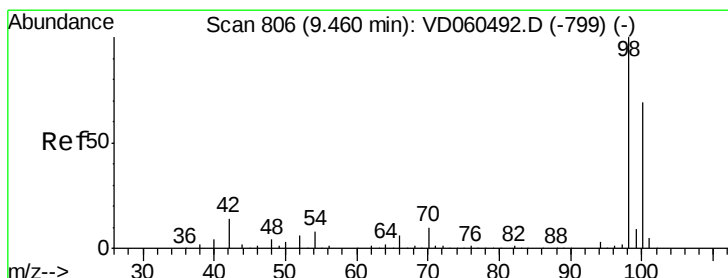
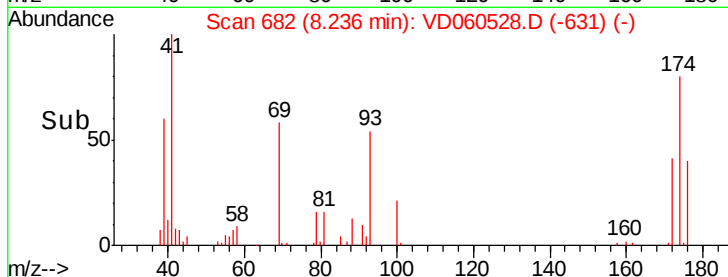
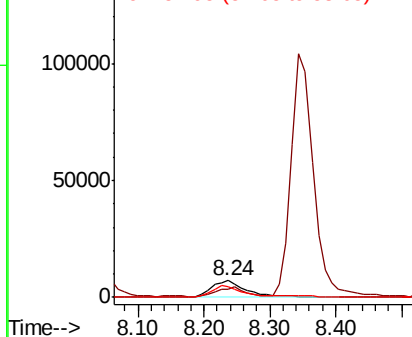
Tot Ion	Ratio	Lower	Upper
88	100		
43	49.1	32.9	49.3
58	65.3	47.7	71.5

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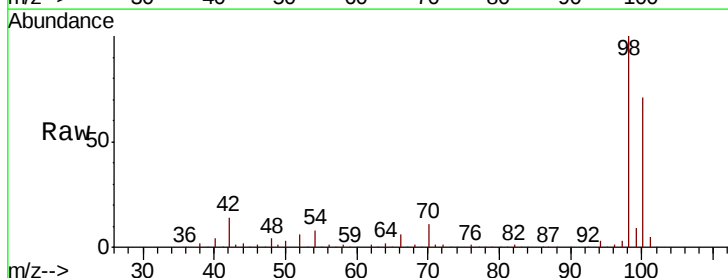


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

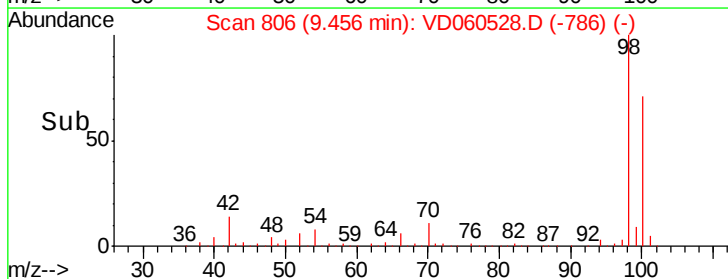
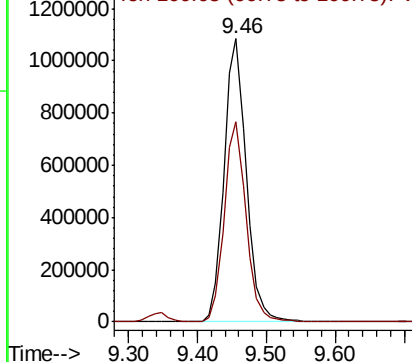


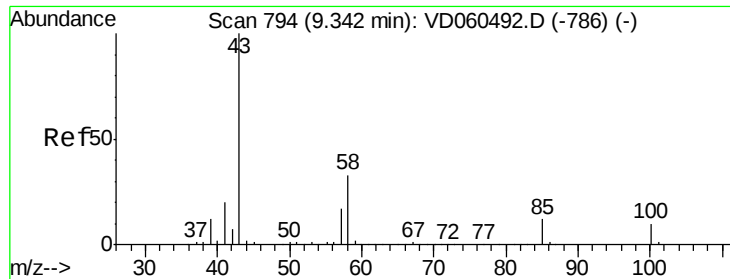
#50
Toluene-d8
Concen: 425.021 ug/l
RT: 9.46 min Scan# 806
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.9	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: 104.264 ug/l

RT: 9.34 min Scan# 794

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 43 Resp: 764758

Ion Ratio Lower Upper

43 100

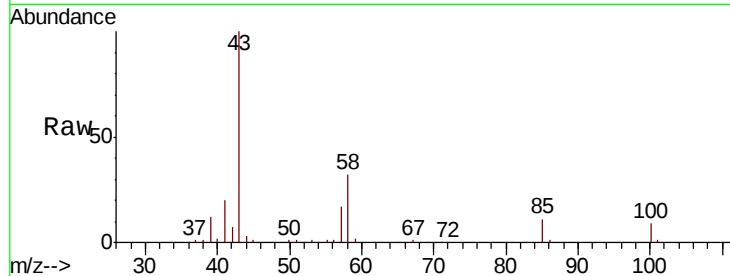
58 32.0 26.3 39.5

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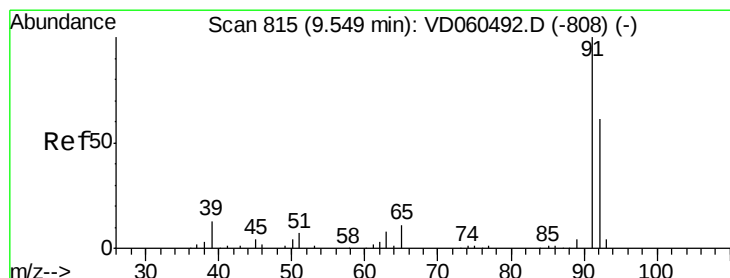
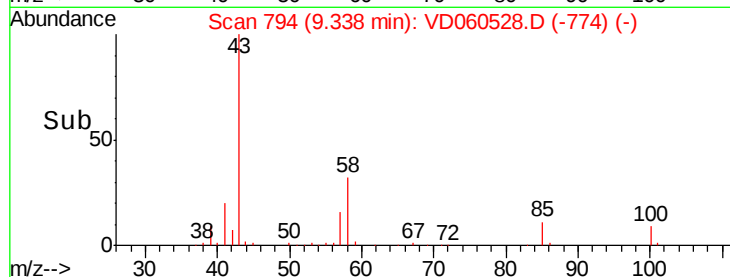
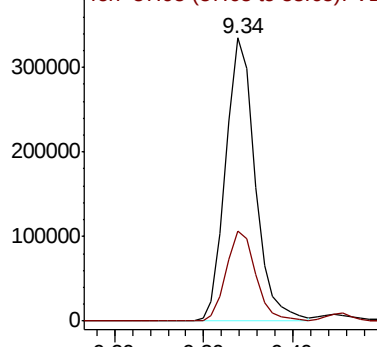
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.310 ug/l

RT: 9.54 min Scan# 815

Delta R.T. -0.00 min

Lab File: VD060528.D

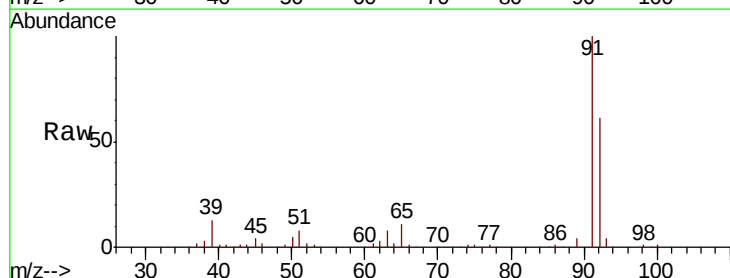
Acq: 11 Dec 2018 11:45

Tgt Ion: 92 Resp: 749772

Ion Ratio Lower Upper

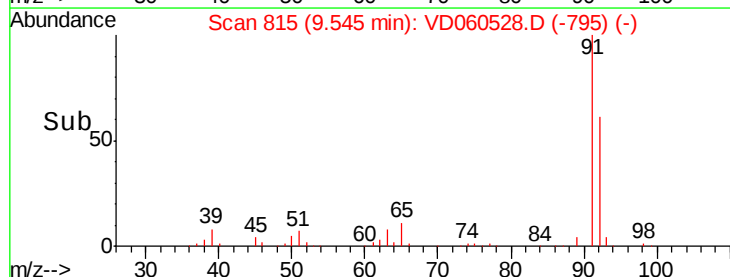
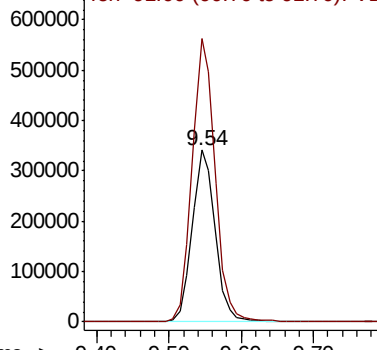
92 100

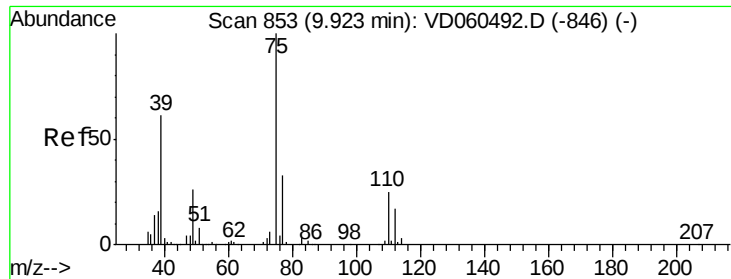
91 164.6 131.7 197.5



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: 21.206 ug/l

RT: 9.92 min Scan# 853

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 75 Resp: 332563

Ion Ratio Lower Upper

75 100

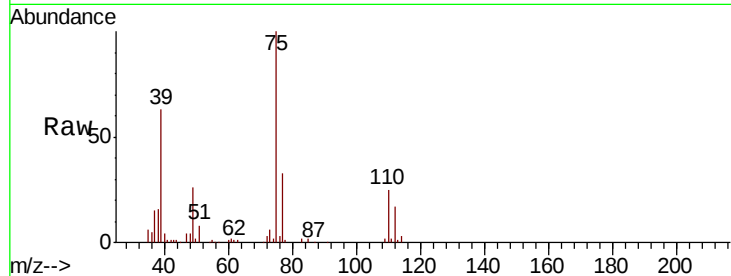
77 32.6 26.2 39.2

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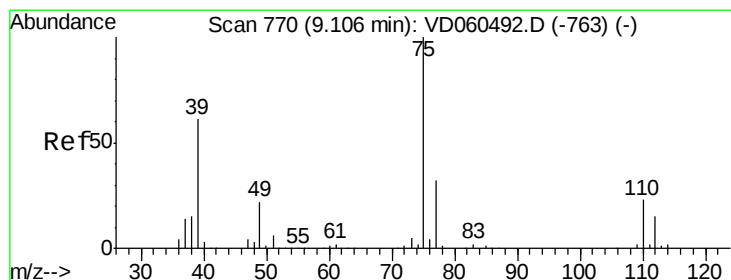
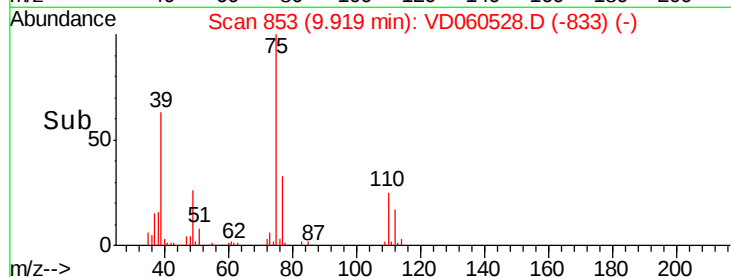
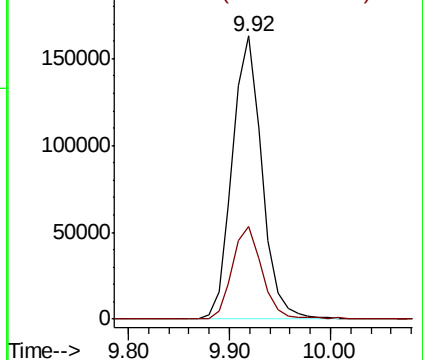
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Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 21.518 ug/l

RT: 9.10 min Scan# 770

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

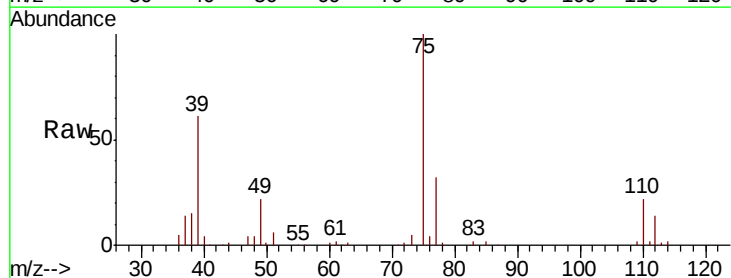
Tgt Ion: 75 Resp: 443369

Ion Ratio Lower Upper

75 100

77 32.1 25.6 38.4

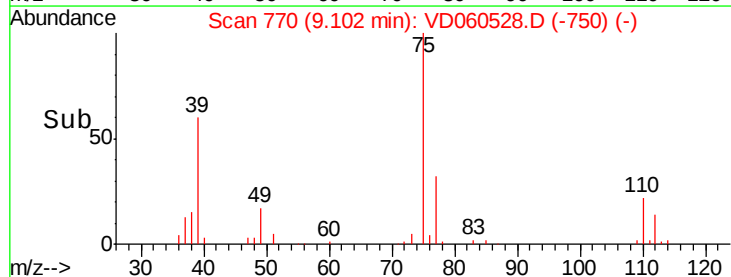
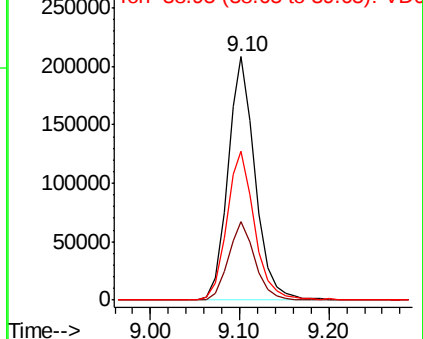
39 61.3 48.6 73.0

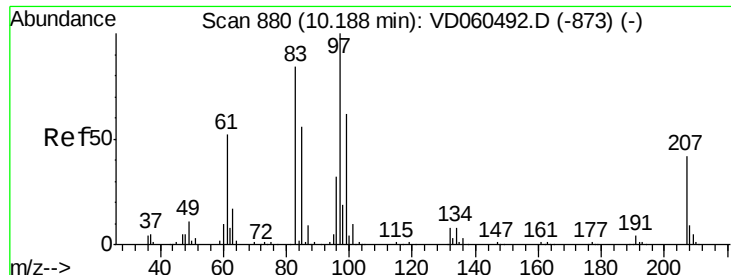


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





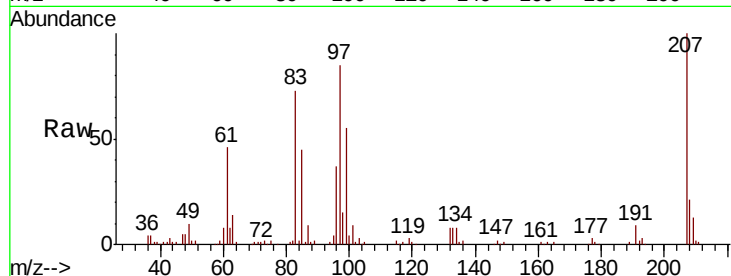
#55
1,1,2-Trichloroethane
Concen: 20.854 ug/l
RT: 10.18 min Scan# 880
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

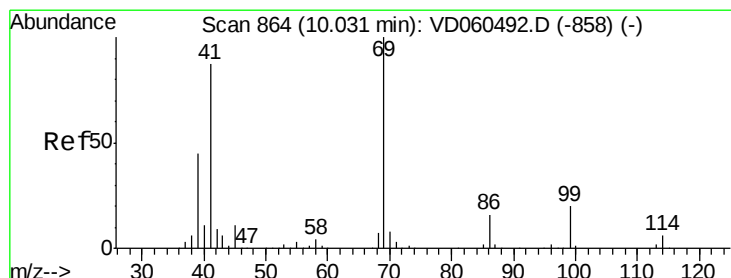
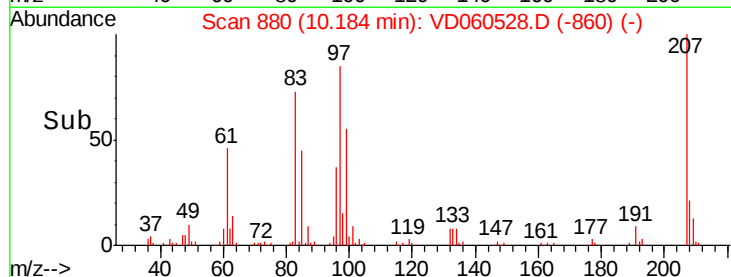
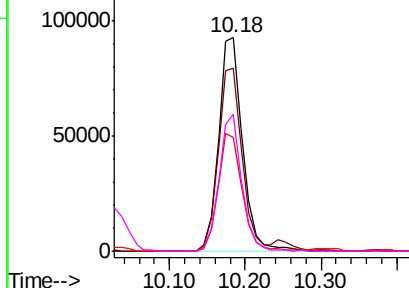
Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		204320		
83	85.5	67.2	100.8		
85	53.4	44.5	66.7		
99	64.1	49.3	73.9		

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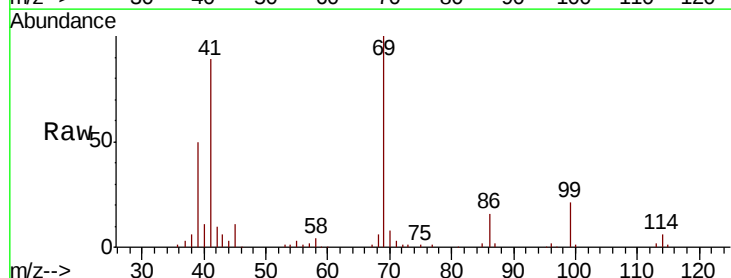


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

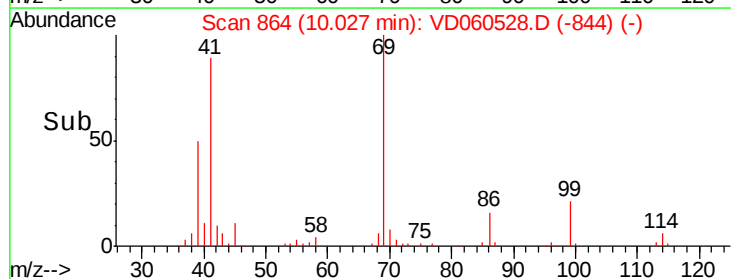
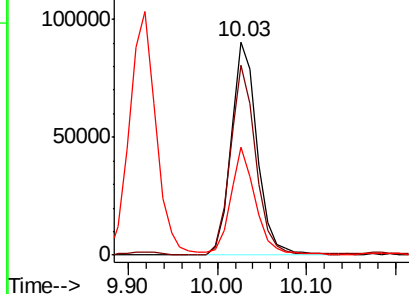


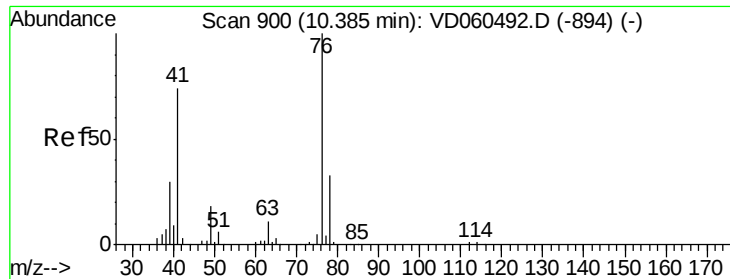
#56
Ethyl methacrylate
Concen: 20.848 ug/l
RT: 10.03 min Scan# 864
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		184869		
41	88.9	69.8	104.8		
39	50.3	37.5	56.3		



Abundance Ion 69.00 (68.70 to 69.70): VDC
Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC





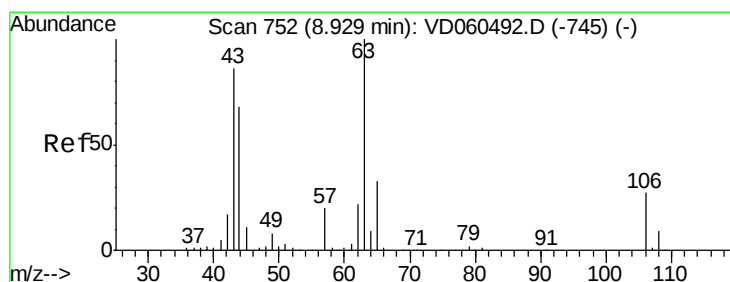
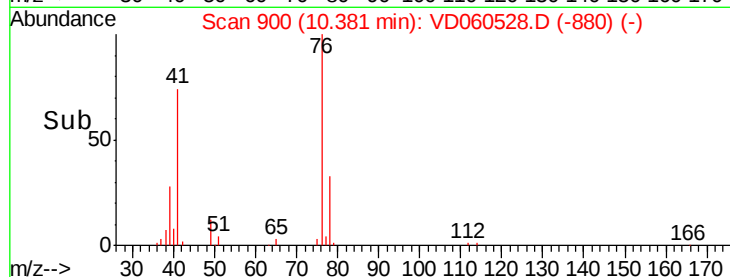
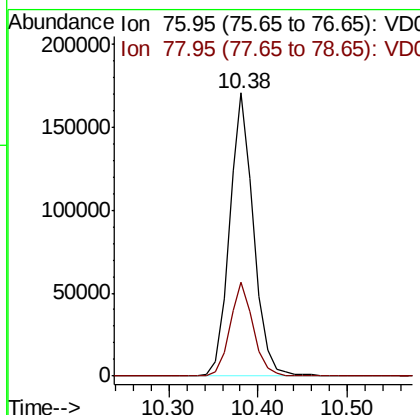
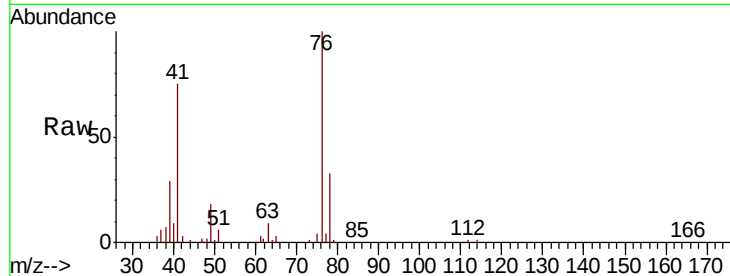
#57
 1,3-Dichloropropane
 Concen: 21.182 ug/l
 RT: 10.38 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion: 76 Resp: 320832
 Ion Ratio Lower Upper
 76 100
 78 33.1 26.1 39.1

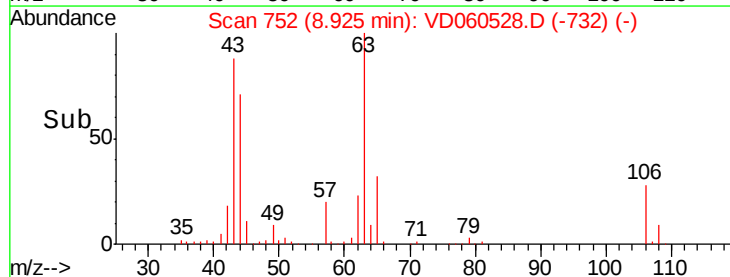
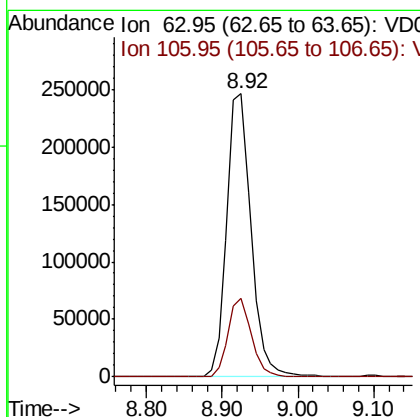
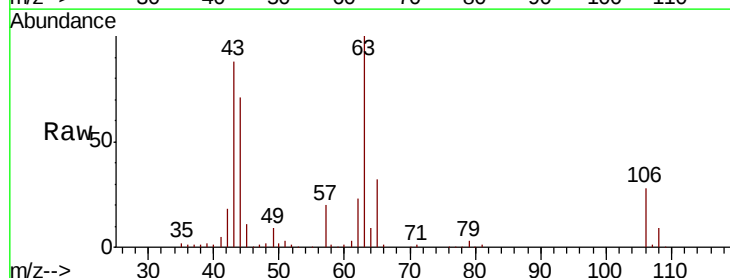
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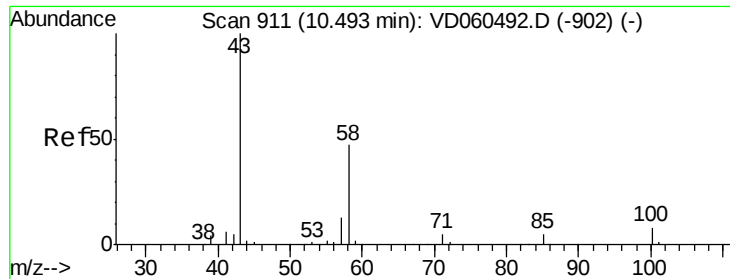
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#58
 2-Chloroethyl Vinyl ether
 Concen: 103.153 ug/l
 RT: 8.92 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion: 63 Resp: 547297
 Ion Ratio Lower Upper
 63 100
 106 27.7 21.6 32.4





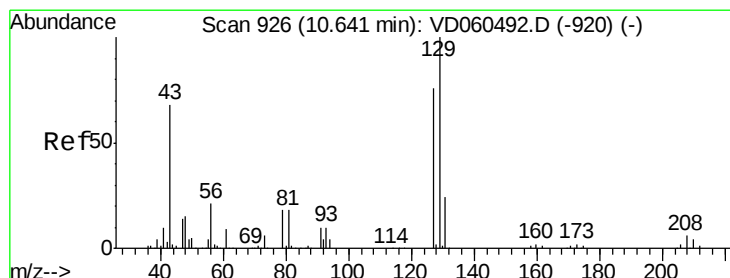
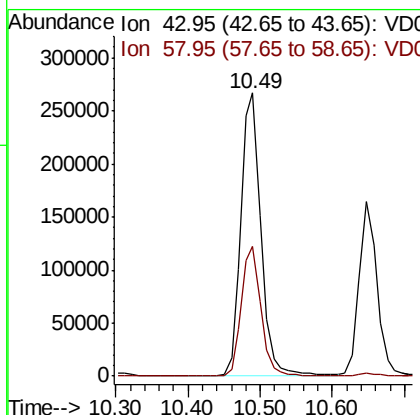
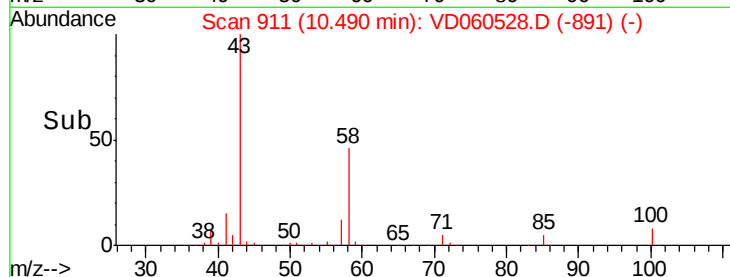
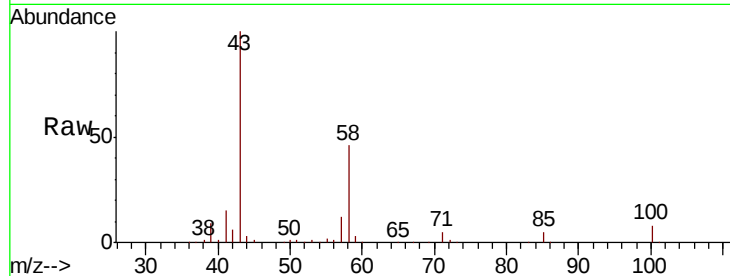
#59
2-Hexanone
Concen: 101.747 ug/l
RT: 10.49 min Scan# 911
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion: 43 Resp: 521646
Ion Ratio Lower Upper
43 100
58 45.9 23.4 70.2

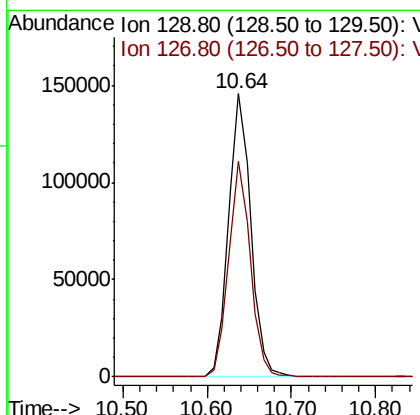
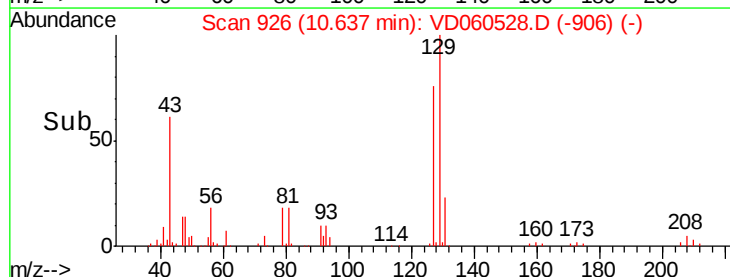
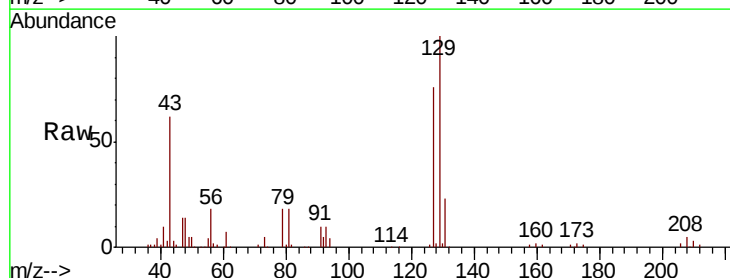
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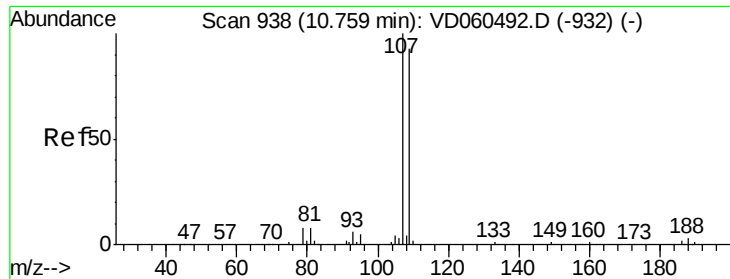
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#60
Dibromochloromethane
Concen: 21.922 ug/l
RT: 10.64 min Scan# 926
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion: 129 Resp: 268544
Ion Ratio Lower Upper
129 100
127 76.2 38.1 114.3





#61

1,2-Dibromoethane

Concen: 20.538 ug/l

RT: 10.76 min Scan# 938

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 107 Resp: 205071

Ion Ratio Lower Upper

107 100

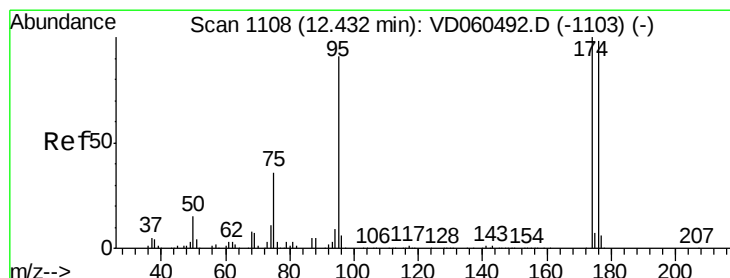
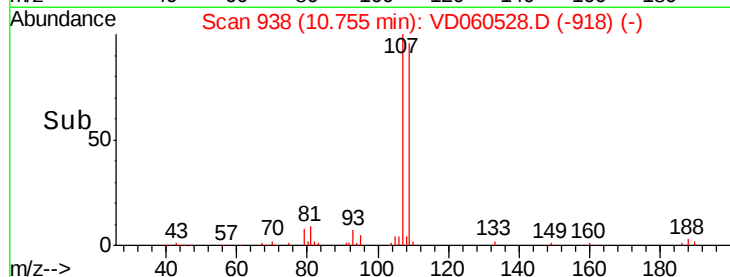
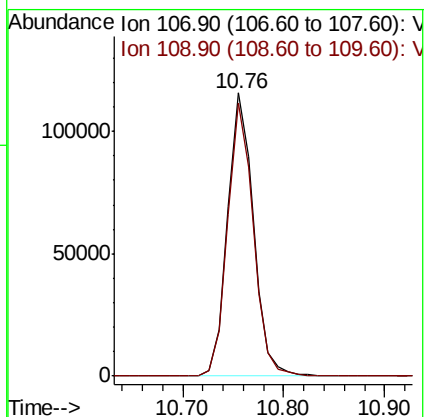
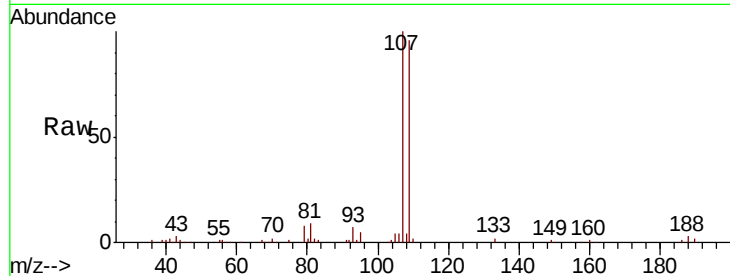
109 96.4 74.7 112.1

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#62

4-Bromofluorobenzene

Concen: 20.538 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

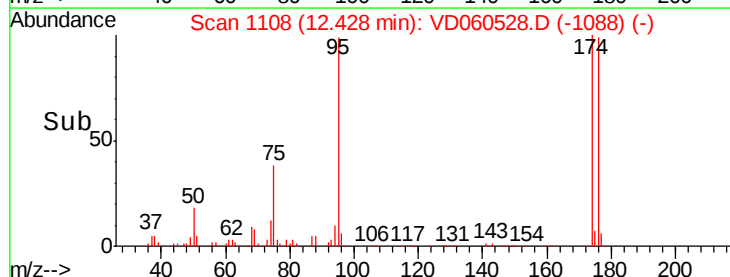
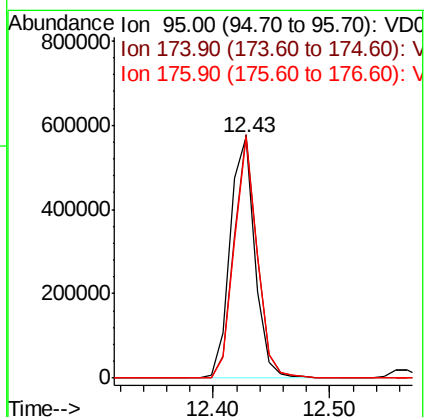
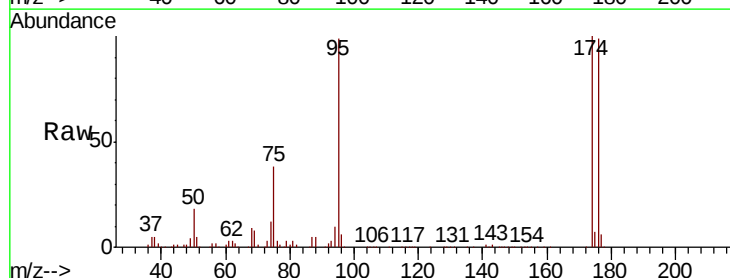
Tgt Ion: 95 Resp: 842357

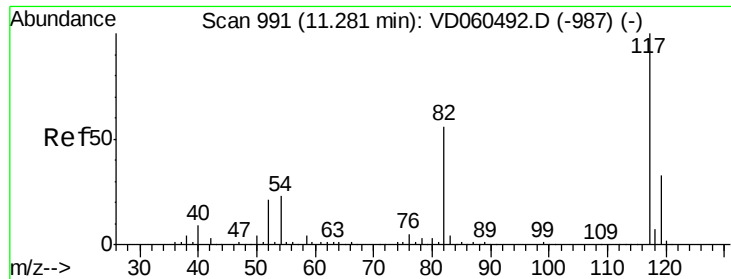
Ion Ratio Lower Upper

95 100

174 101.0 0.0 219.4

176 100.0 0.0 214.6





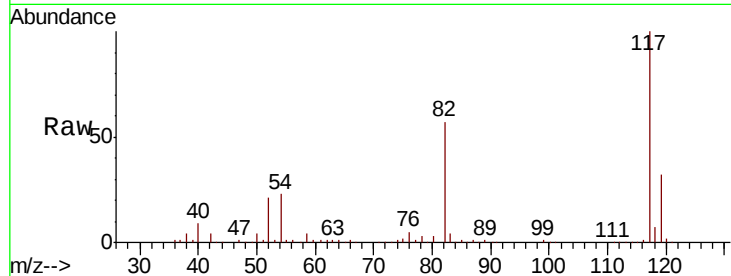
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 991
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

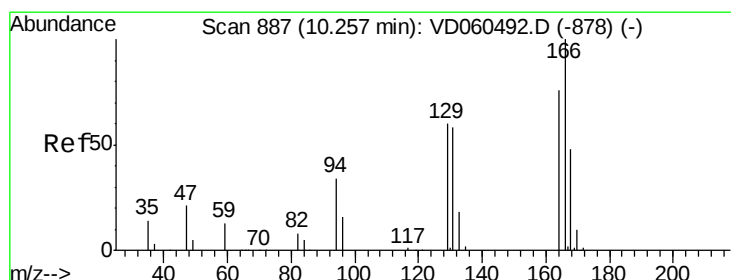
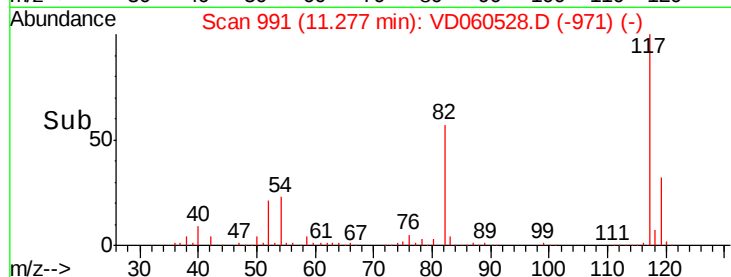
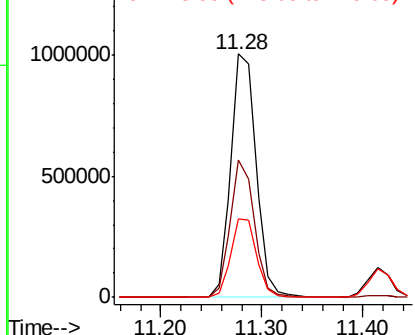
Tot Ion:117 Resp: 1750125
Ion Ratio Lower Upper
117 100
82 56.6 45.2 67.8
119 32.3 26.1 39.1

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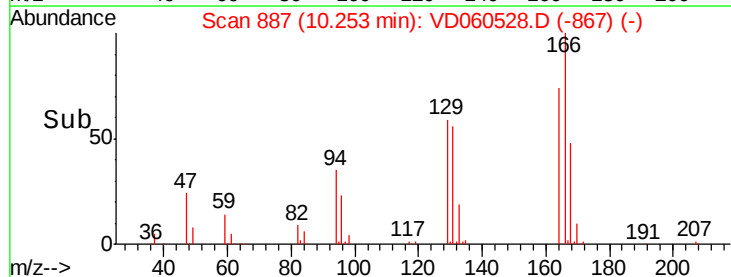
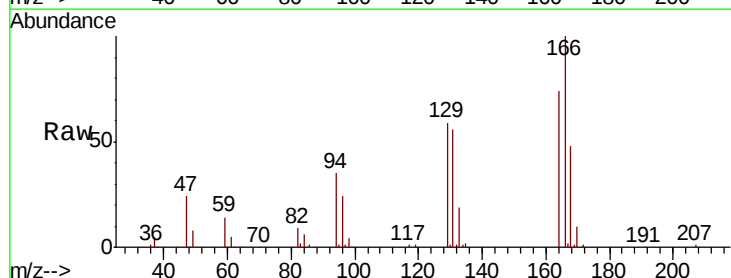
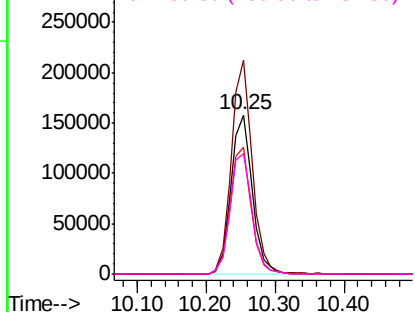
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

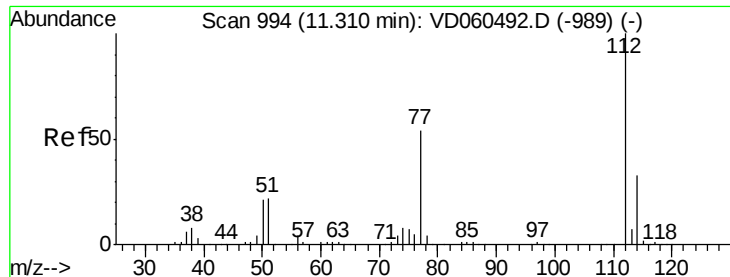


#64
Tetrachloroethene
Concen: 21.745 ug/l
RT: 10.25 min Scan# 887
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion:164 Resp: 336987
Ion Ratio Lower Upper
164 100
166 134.4 105.0 157.6
129 79.5 63.0 94.4
131 75.6 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





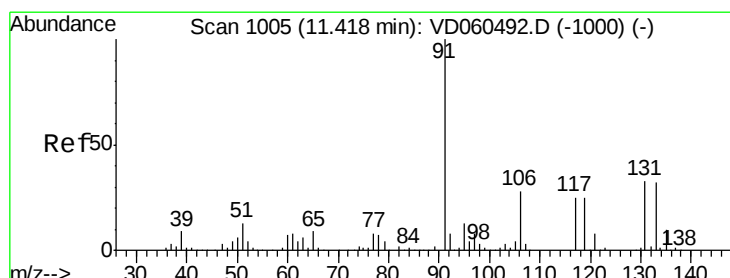
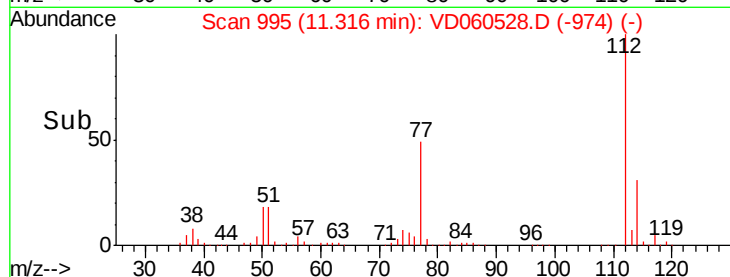
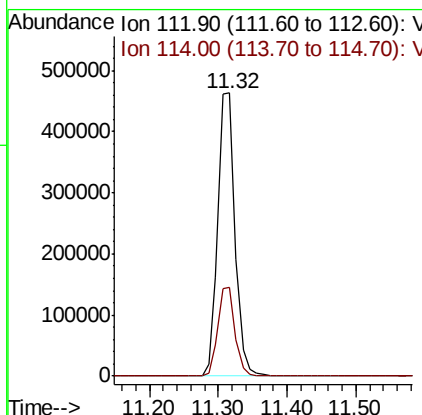
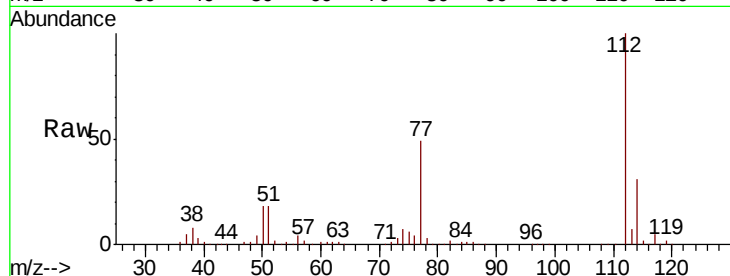
#65
Chlorobenzene
Concen: 21.805 ug/l
RT: 11.32 min Scan# 995
Delta R.T. 0.01 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion:112 Resp: 807330
Ion Ratio Lower Upper
112 100
114 31.3 26.2 39.4

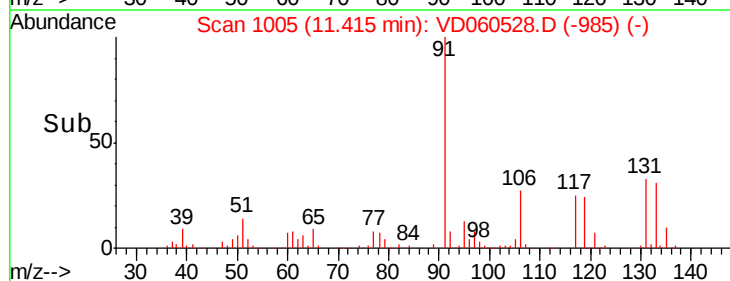
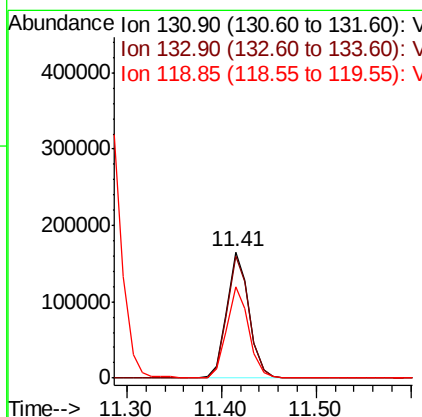
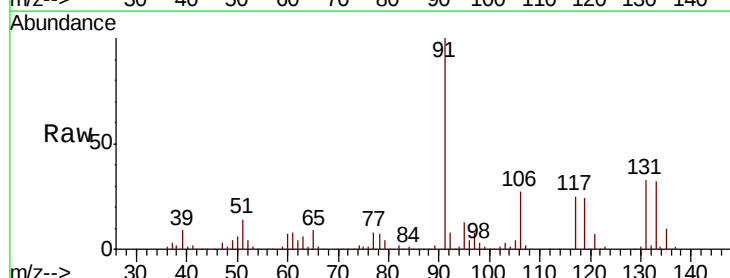
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#66
1,1,1,2-Tetrachloroethane
Concen: 22.410 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion:131 Resp: 267440
Ion Ratio Lower Upper
131 100
133 96.6 49.1 147.3
119 72.4 37.5 112.3





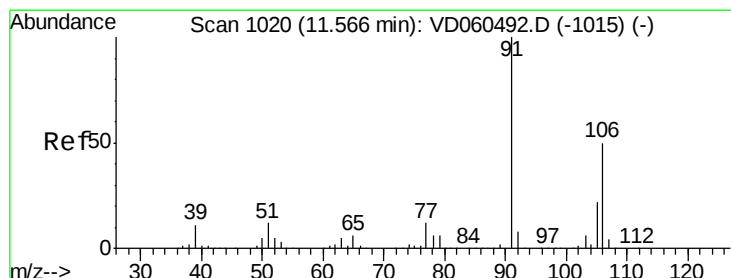
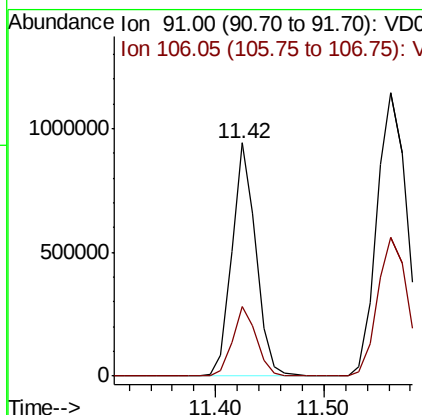
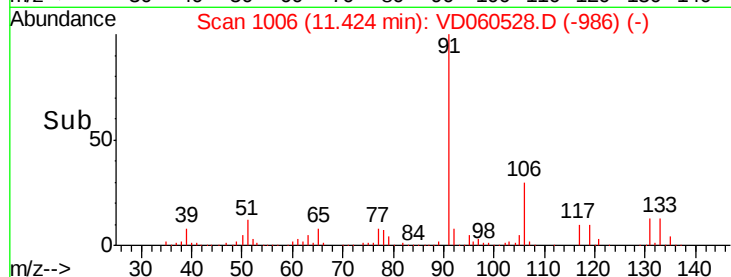
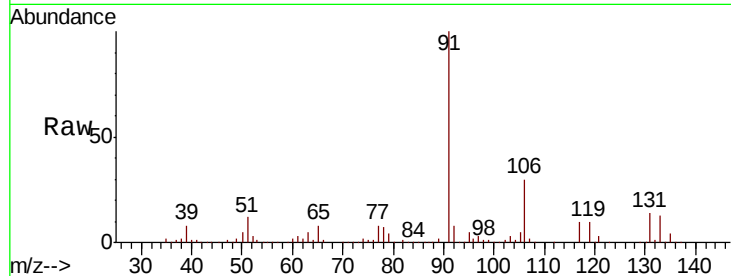
#67
Ethyl Benzene
Concen: 22.923 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleID :
VD1211SBS01

Tot Ion: 91 Resp: 1447651
Ion Ratio Lower Upper
91 100
106 30.0 24.6 37.0

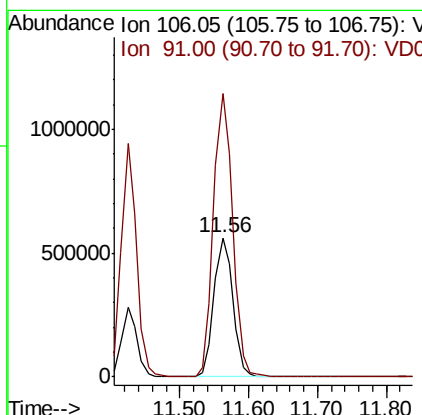
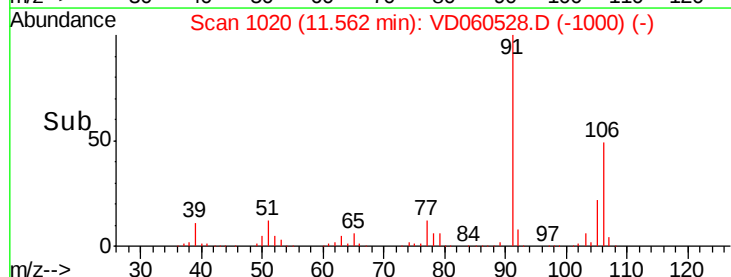
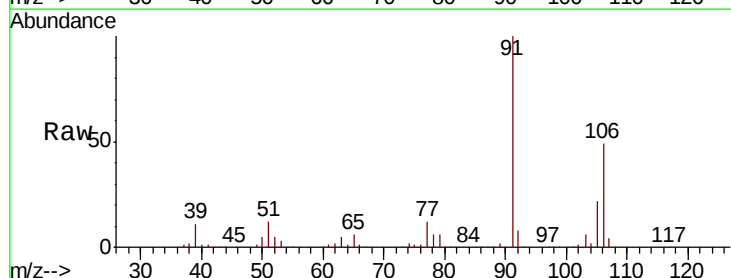
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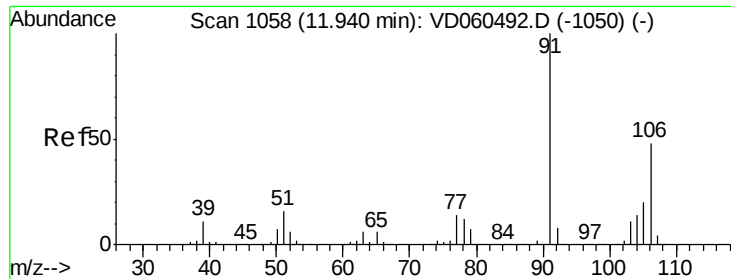
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#68
m/p-Xylenes
Concen: 46.149 ug/l
RT: 11.56 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion: 106 Resp: 1078227
Ion Ratio Lower Upper
106 100
91 203.7 160.5 240.7





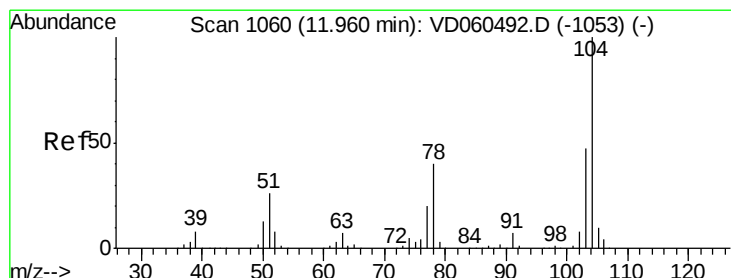
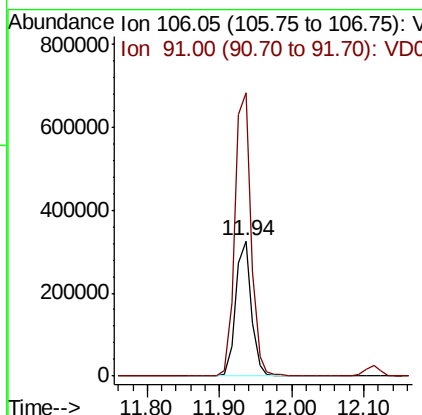
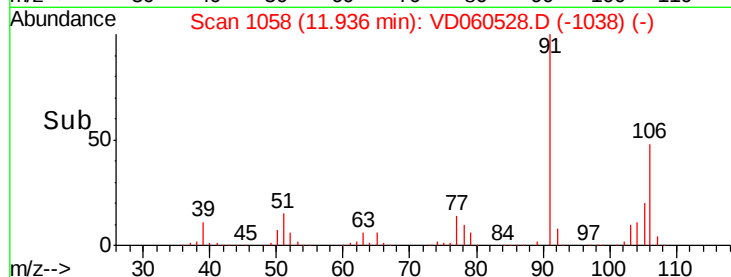
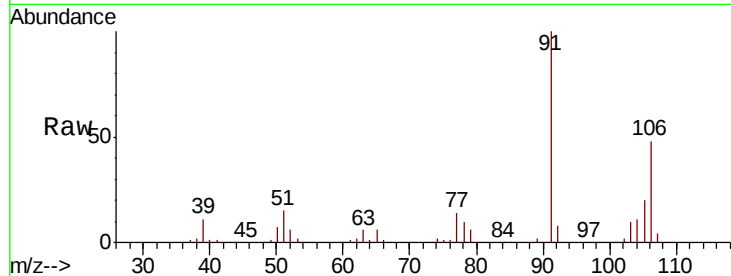
#69
o-Xylene
Concen: 22.337 ug/l
RT: 11.94 min Scan# 1058
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion:106 Resp: 497346
Ion Ratio Lower Upper
106 100
91 209.0 103.4 310.1

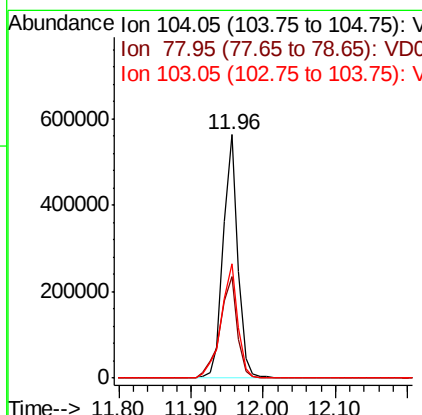
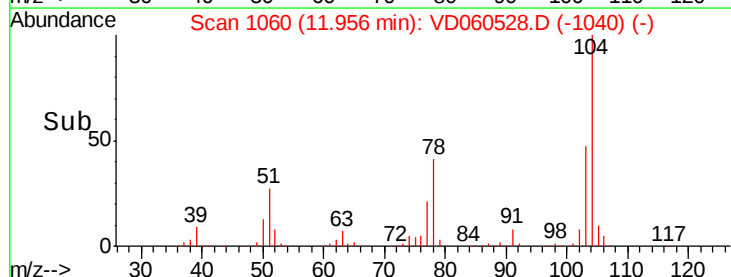
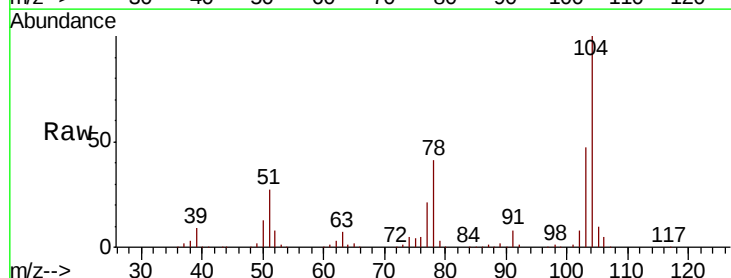
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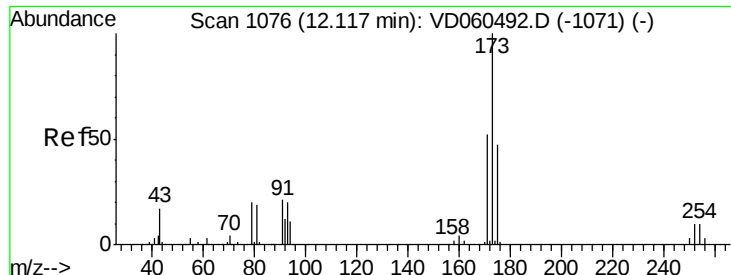
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#70
Styrene
Concen: 22.046 ug/l
RT: 11.96 min Scan# 1060
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion:104 Resp: 787928
Ion Ratio Lower Upper
104 100
78 41.5 32.1 48.1
103 46.8 37.2 55.8





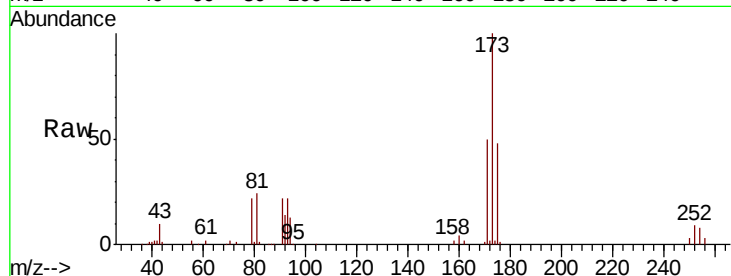
#71
Bromoform
Concen: 20.610 ug/l
RT: 12.11 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.0	23.5	70.6
254	8.2	7.8	11.8

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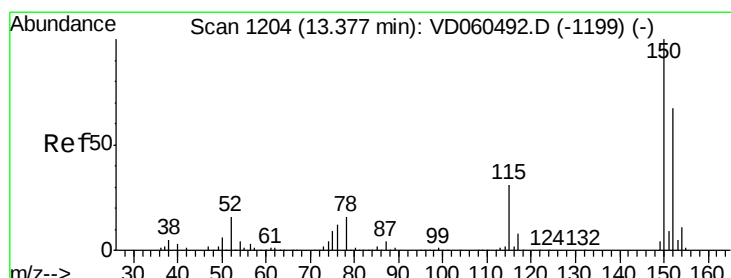
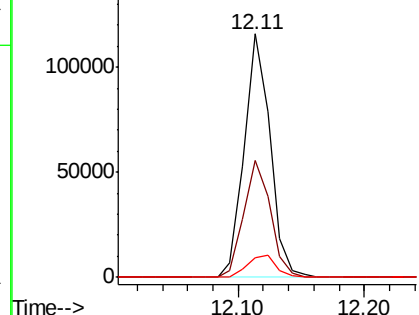
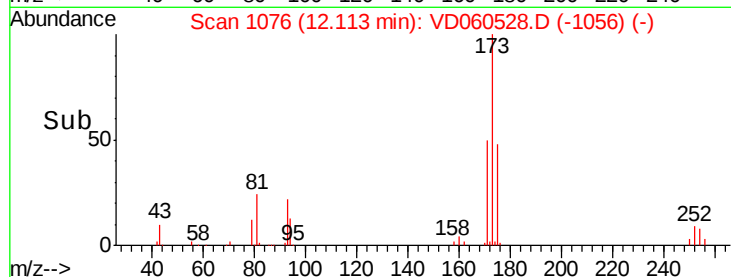


Abundance

Ion 172.80 (172.50 to 173.50): V

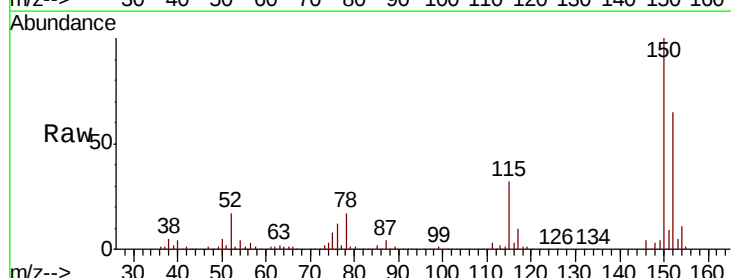
Ion 174.80 (174.50 to 175.50): V

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. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	49.5	24.6	74.0
150	154.5	0.0	309.0

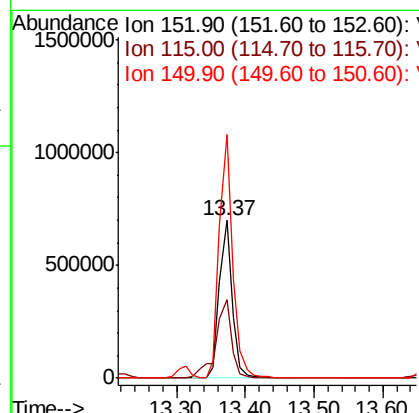
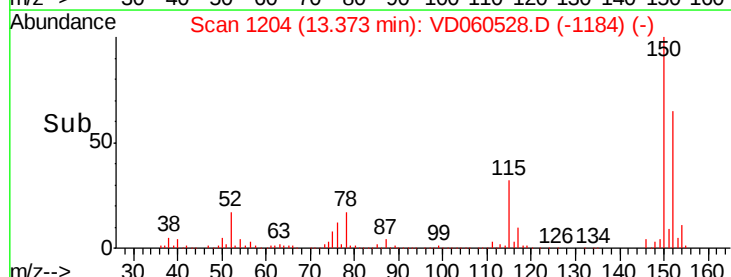


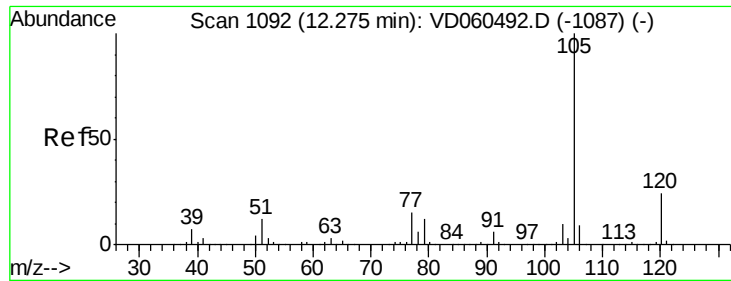
Abundance

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





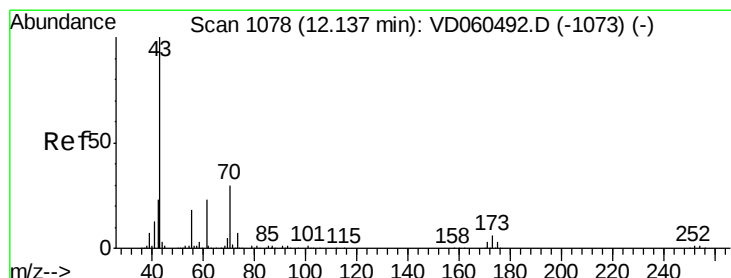
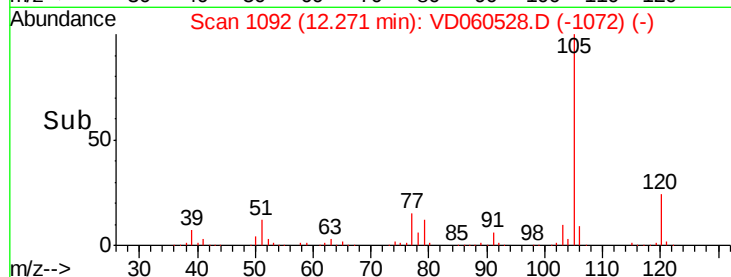
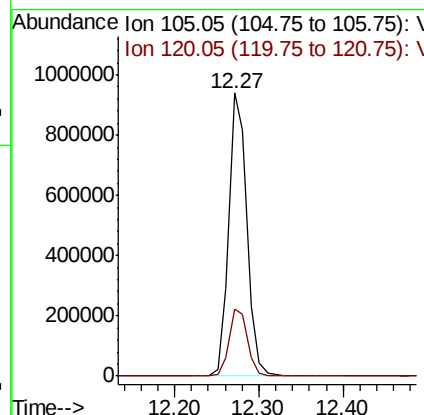
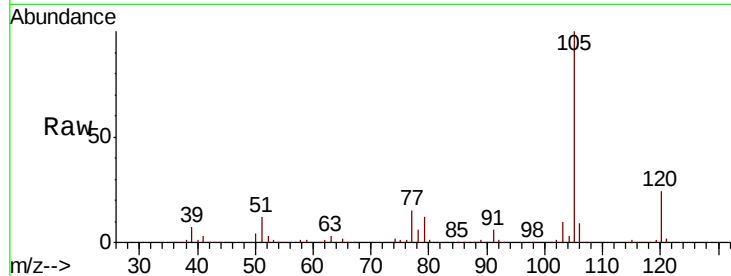
#73
Isopropylbenzene
Concen: 21.910 ug/l
RT: 12.27 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion: 105 Resp: 1399006
Ion Ratio Lower Upper
105 100
120 23.6 11.9 35.9

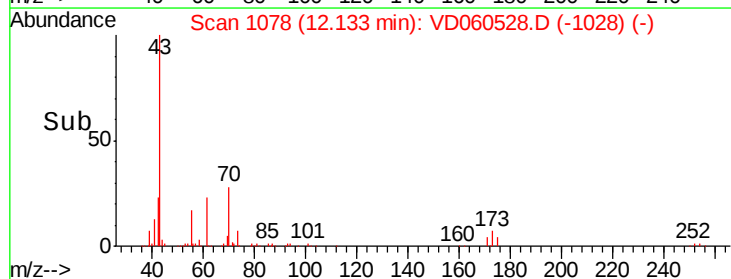
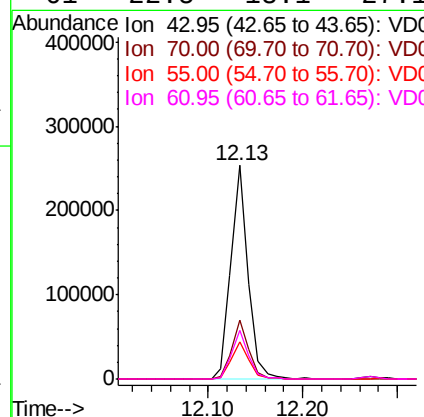
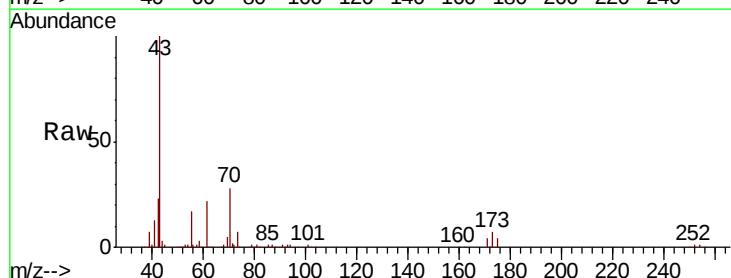
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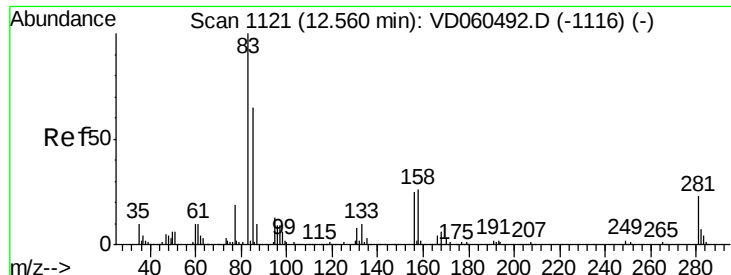
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#74
N-ethyl acetate
Concen: 20.560 ug/l
RT: 12.13 min Scan# 1078
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion: 43 Resp: 317277
Ion Ratio Lower Upper
43 100
70 27.6 23.8 35.8
55 17.1 14.2 21.2
61 22.5 18.1 27.1





#75

1,1,2,2-Tetrachloroethane

Concen: 20.252 ug/l

RT: 12.56 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 83 Resp: 207018

Ion Ratio Lower Upper

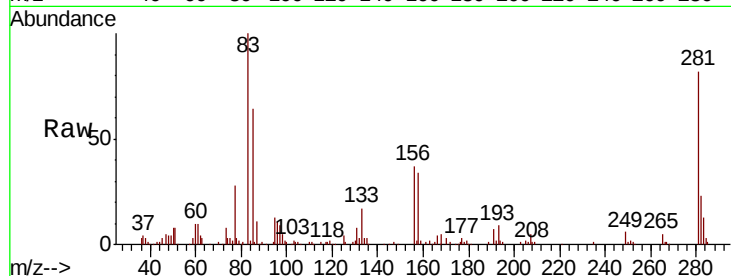
83 100

131 8.3 3.8 11.4

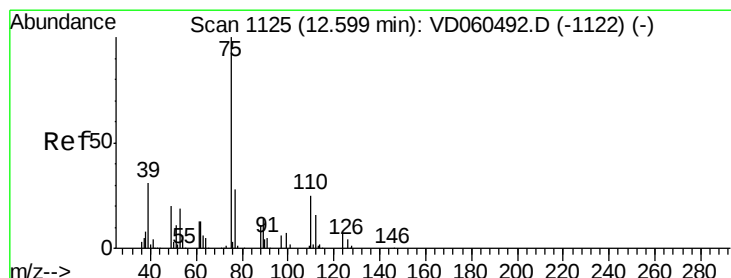
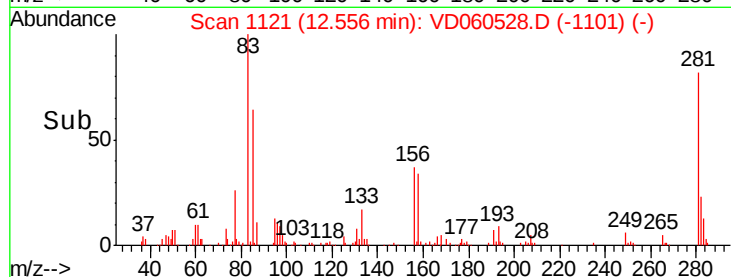
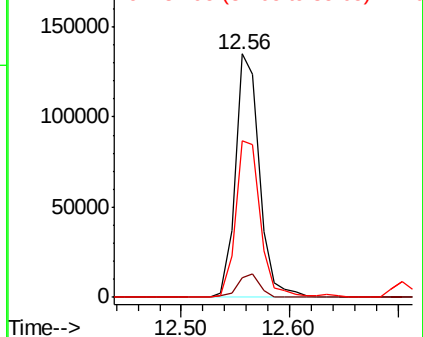
85 64.3 32.3 96.9

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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: 20.440 ug/l

RT: 12.60 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VD060528.D

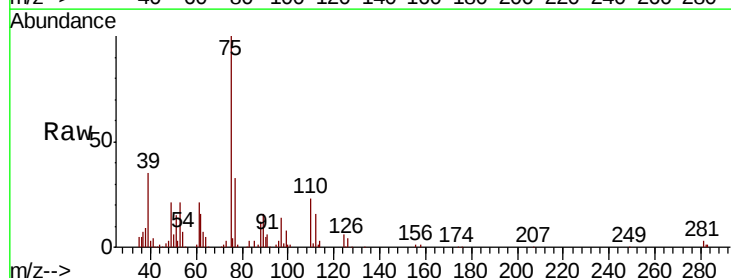
Acq: 11 Dec 2018 11:45

Tgt Ion: 75 Resp: 208974

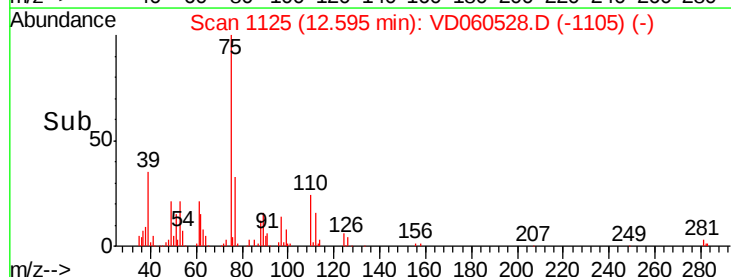
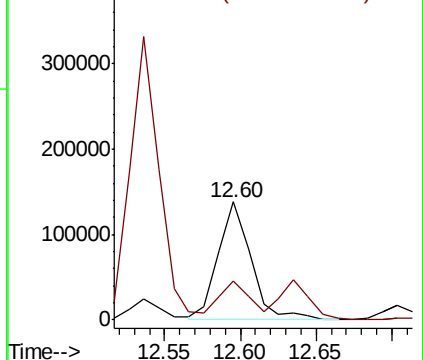
Ion Ratio Lower Upper

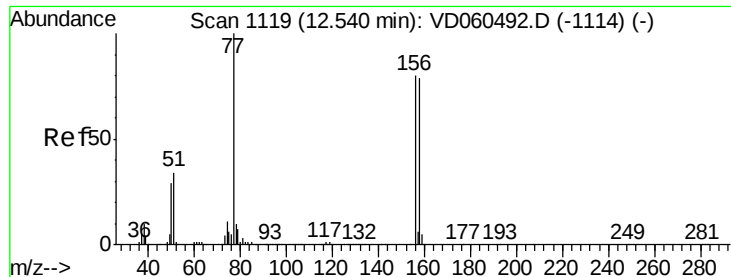
75 100

77 32.9 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: 21.171 ug/l

RT: 12.54 min Scan# 1119

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

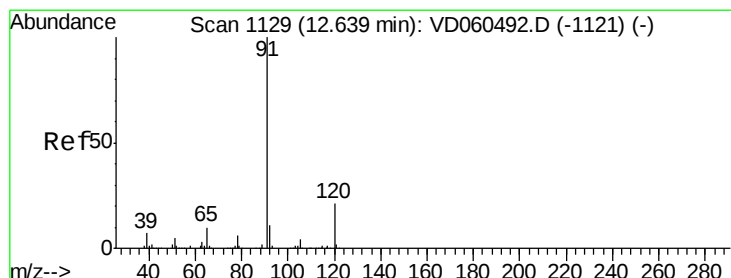
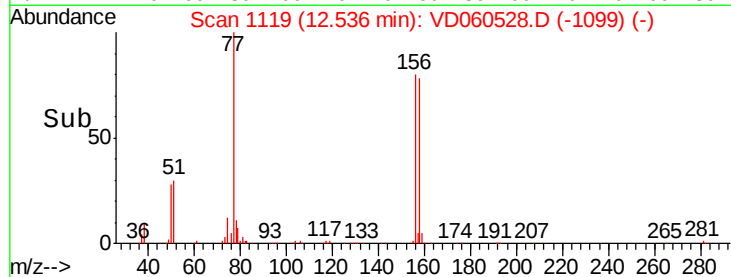
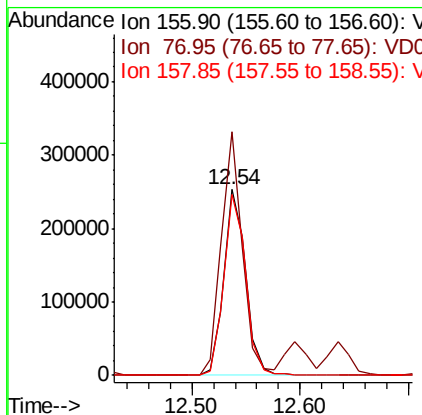
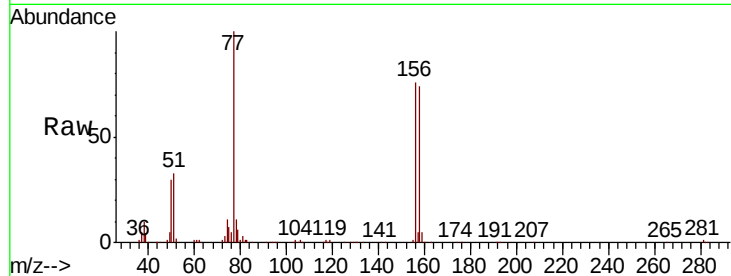
ClientSampleId :

VD1211SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	131.0	62.5	187.6		
158	97.5	49.4	148.2		

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#78

n-propylbenzene

Concen: 22.249 ug/l

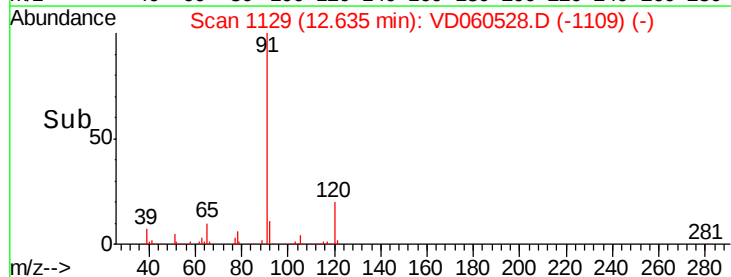
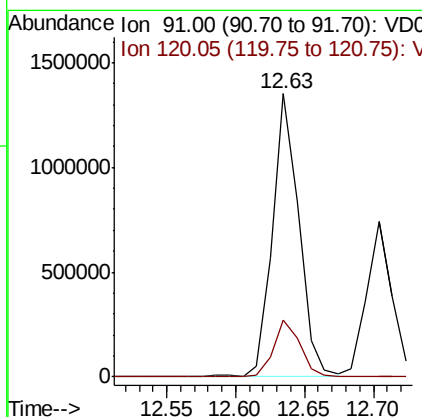
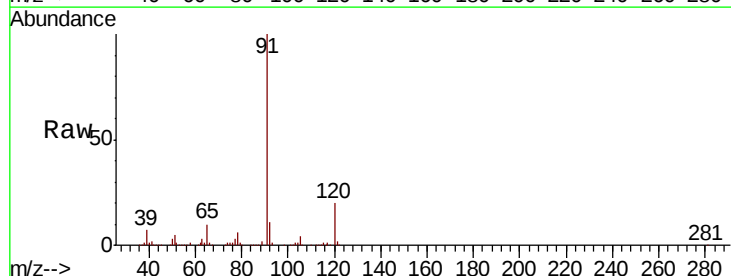
RT: 12.63 min Scan# 1129

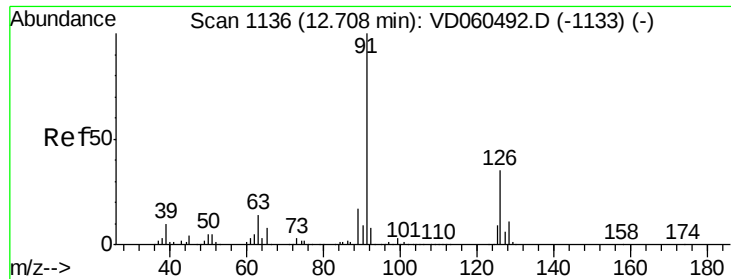
Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	20.1	10.4	31.1		





#79

2-Chlorotoluene

Concen: 21.946 ug/l

RT: 12.70 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion: 91 Resp: 961205

Ion Ratio Lower Upper

91 100

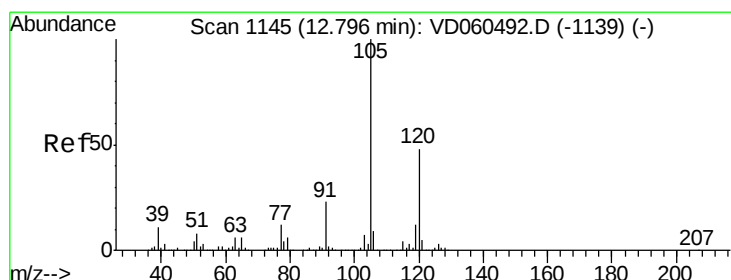
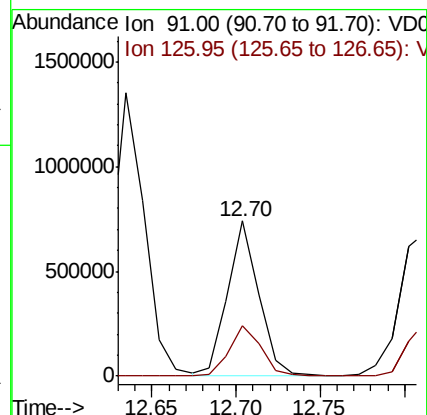
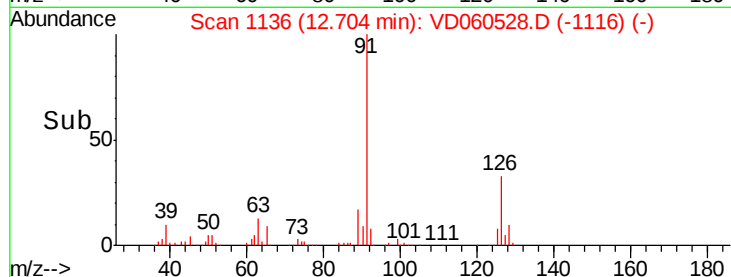
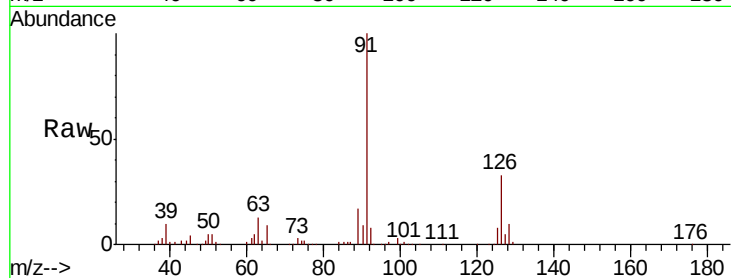
126 32.9 17.3 52.0

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 22.450 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VD060528.D

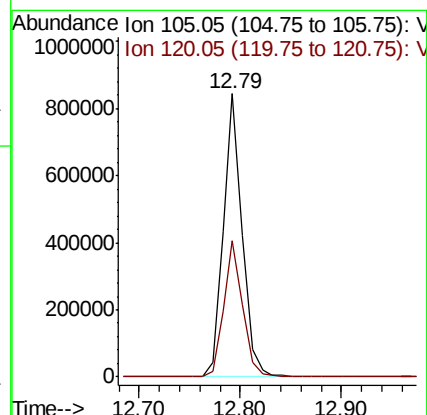
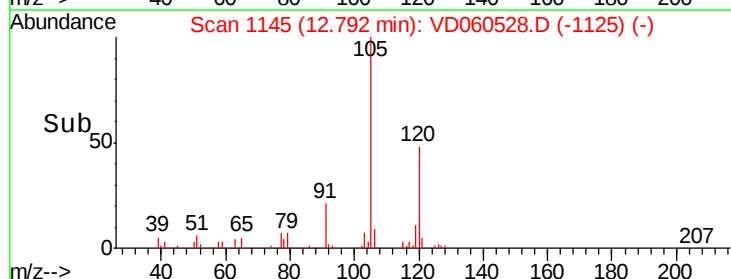
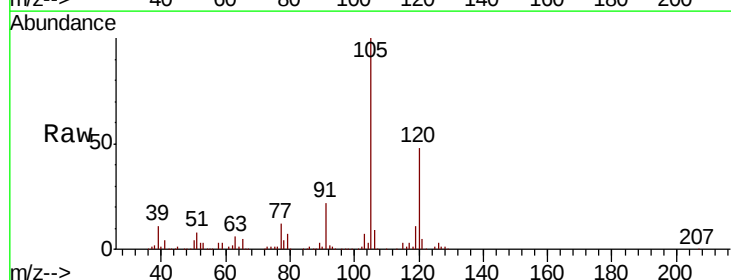
Acq: 11 Dec 2018 11:45

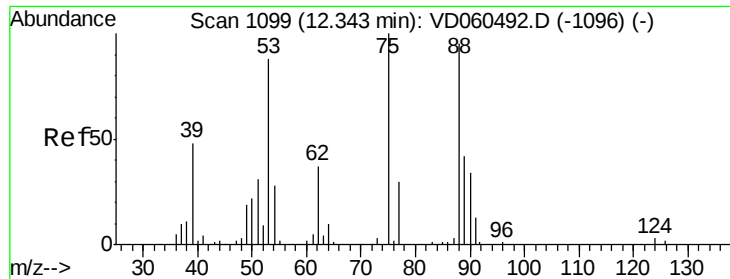
Tgt Ion:105 Resp: 1095320

Ion Ratio Lower Upper

105 100

120 48.2 24.2 72.6





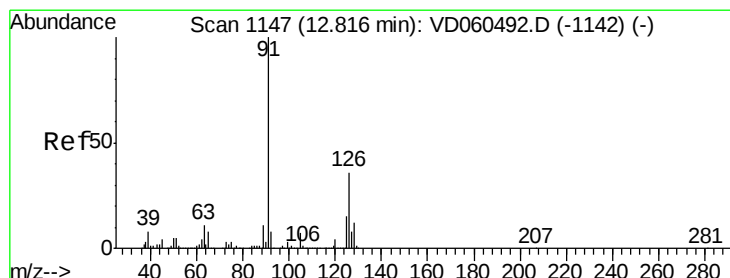
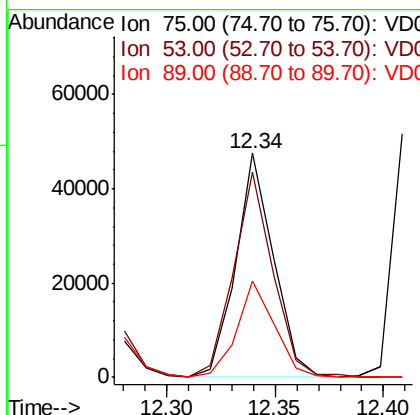
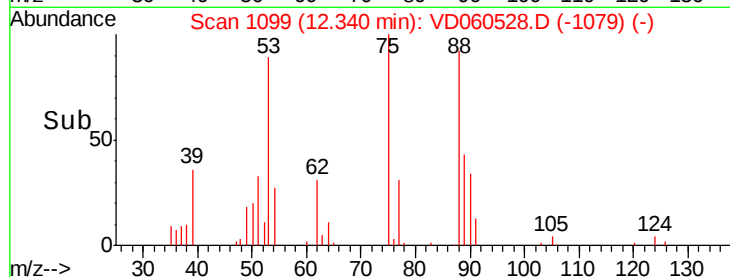
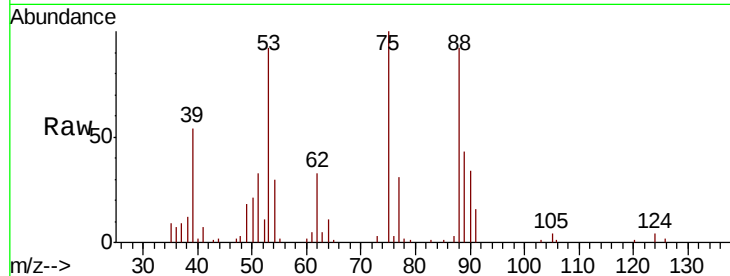
#81
trans-1,4-Dichloro-2-butene
Concen: 20.266 ug/l
RT: 12.34 min Scan# 1099
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.7	70.5	105.7
89	43.2	33.6	50.4

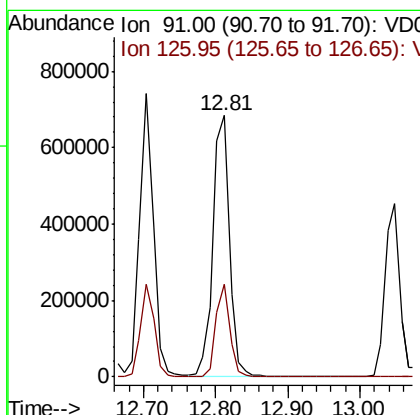
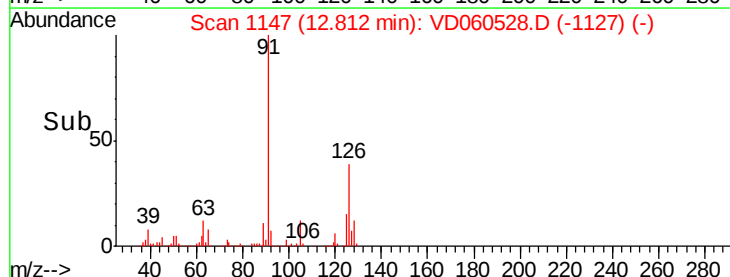
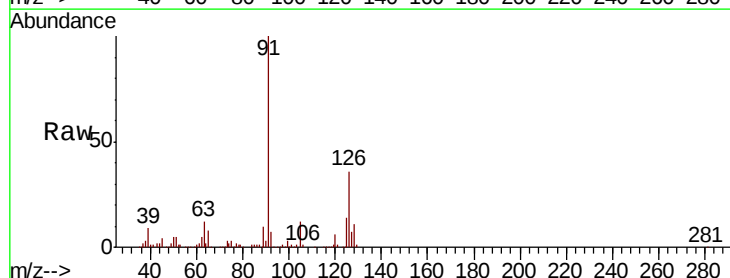
Manual Integrations
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#82
4-Chlorotoluene
Concen: 21.780 ug/l
RT: 12.81 min Scan# 1147
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.8	53.4





#83

tert-Butylbenzene

Concen: 22.295 ug/l

RT: 13.05 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion:119 Resp: 1219658

Ion Ratio Lower Upper

119 100

91 69.4 33.1 99.2

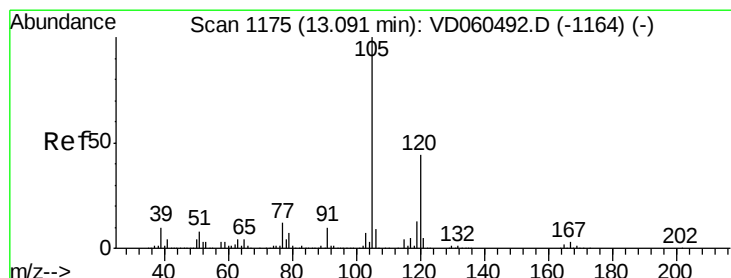
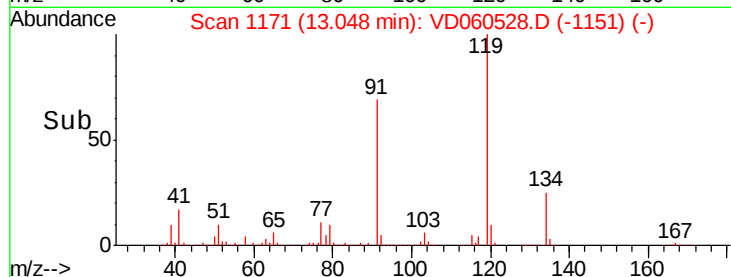
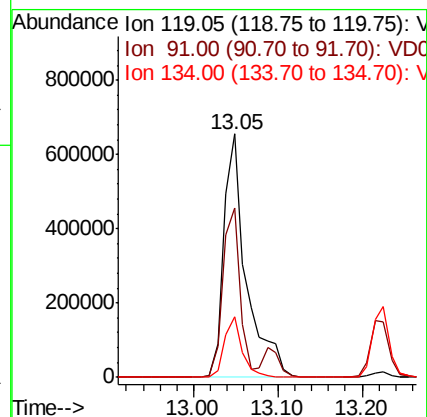
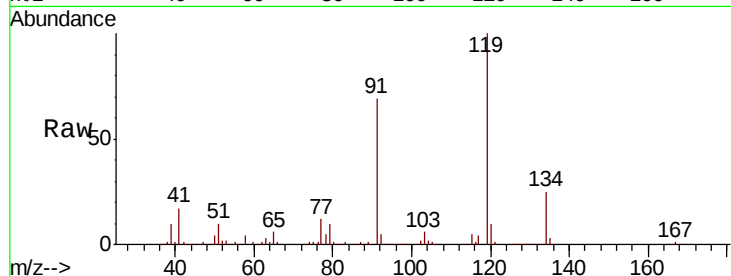
134 24.7 12.0 36.0

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#84

1,2,4-Trimethylbenzene

Concen: 21.730 ug/l

RT: 13.09 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VD060528.D

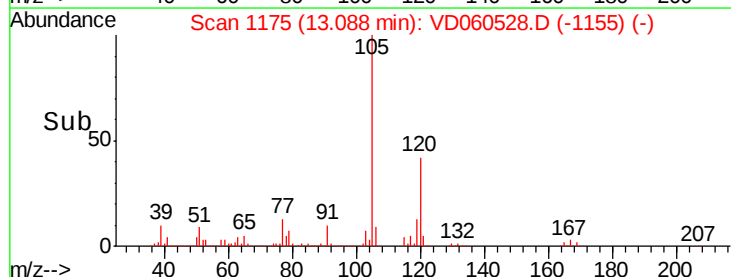
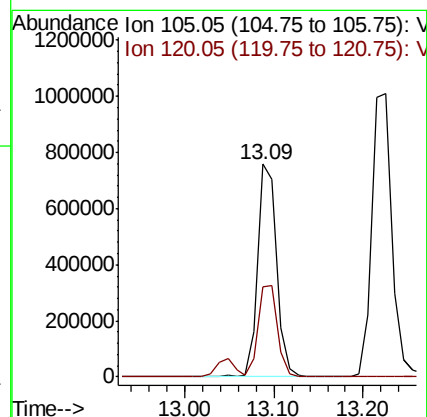
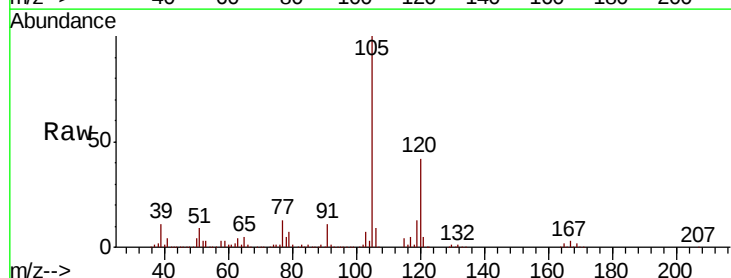
Acq: 11 Dec 2018 11:45

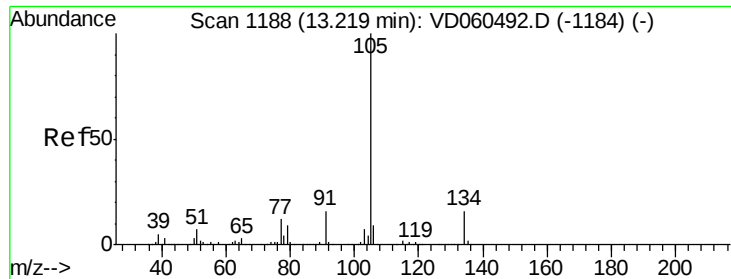
Tgt Ion:105 Resp: 1097763

Ion Ratio Lower Upper

105 100

120 42.4 22.3 66.8





#85

sec-Butylbenzene

Concen: 22.935 ug/l

RT: 13.23 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1211SBS01

Tot Ion:105 Resp: 1563756

Ion Ratio Lower Upper

105 100

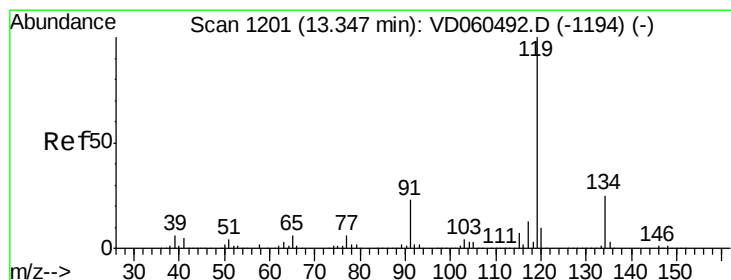
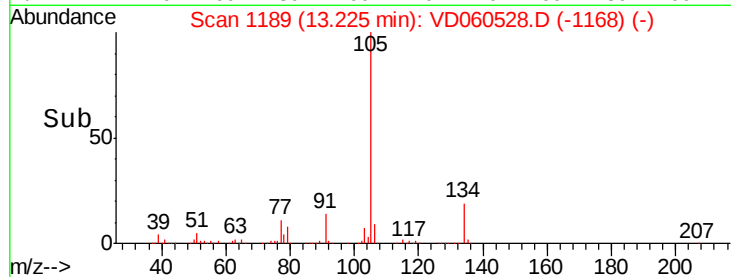
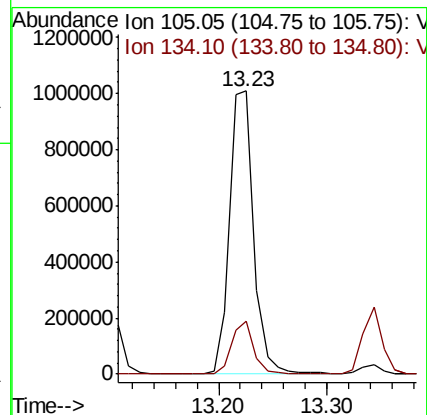
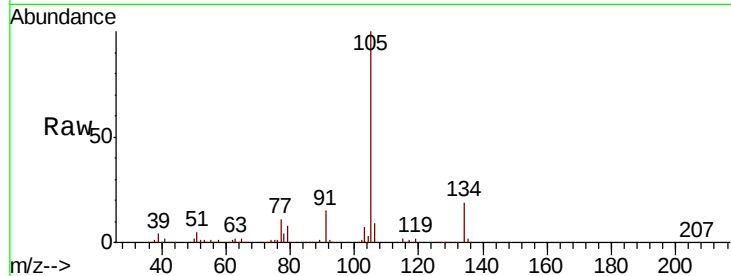
134 18.9 7.9 23.7

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#86

p-Isopropyltoluene

Concen: 22.333 ug/l

RT: 13.34 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

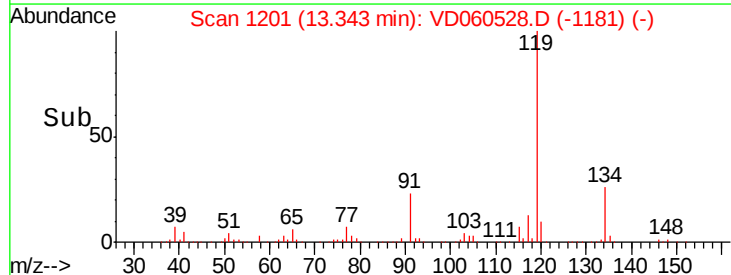
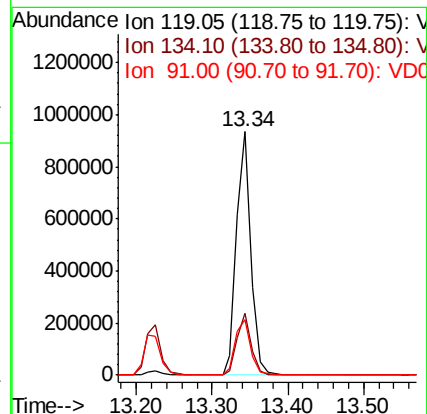
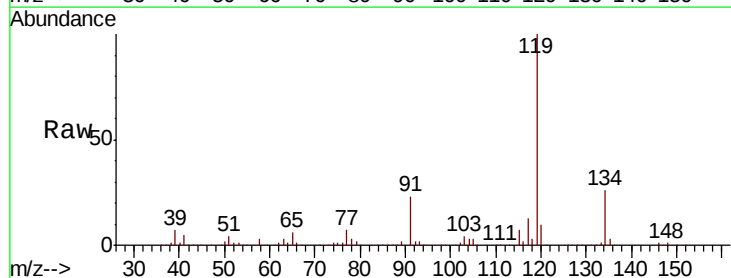
Tgt Ion:119 Resp: 1207065

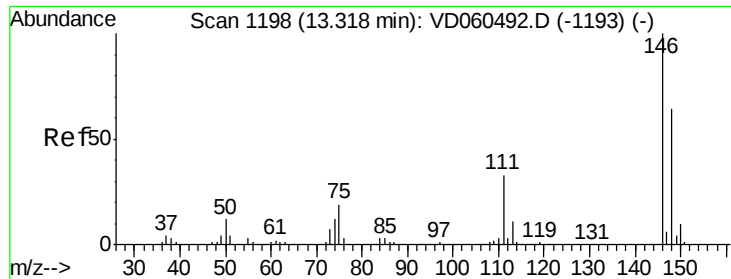
Ion Ratio Lower Upper

119 100

134 25.6 12.5 37.5

91 23.0 11.5 34.4





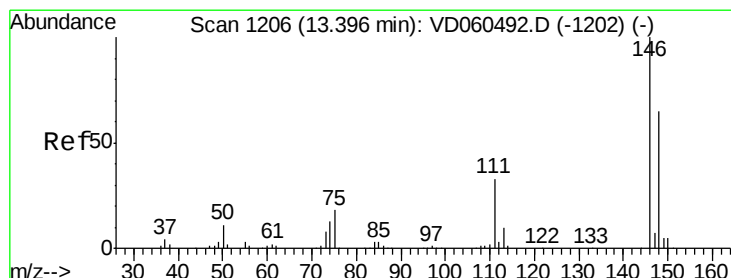
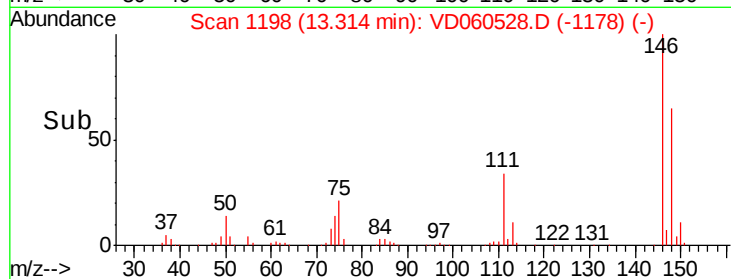
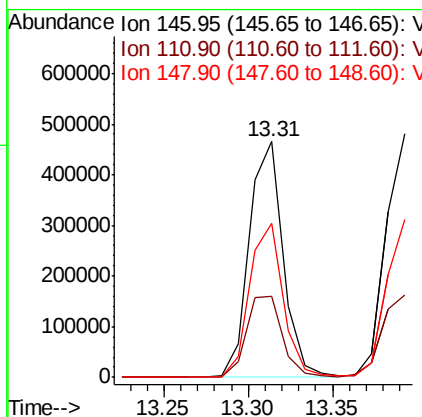
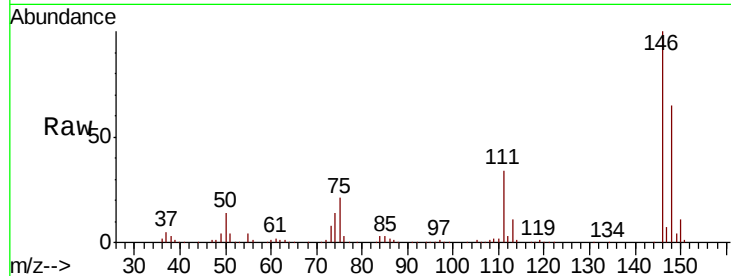
#87
 1,3-Dichlorobenzene
 Concen: 21.330 ug/l
 RT: 13.31 min Scan# 1198
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.3	16.5	49.5
148	65.2	32.3	96.8

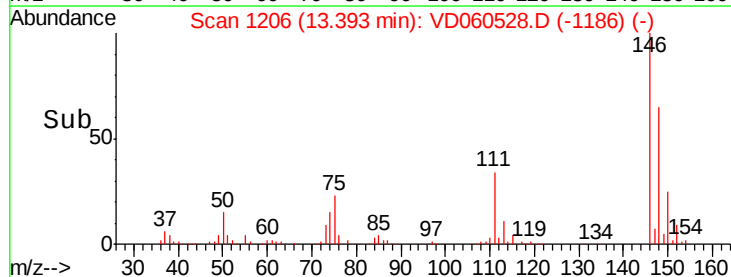
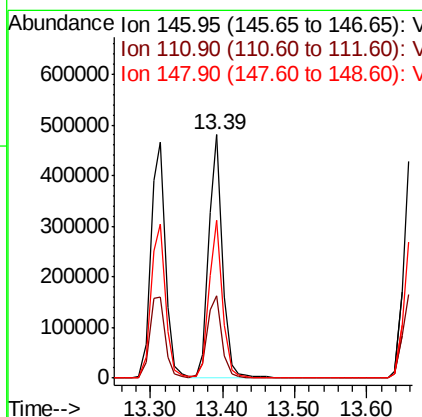
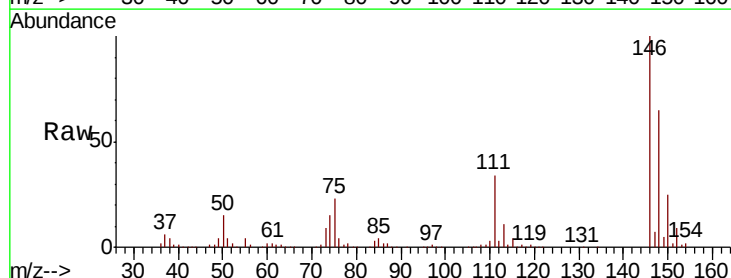
Manual Integrations
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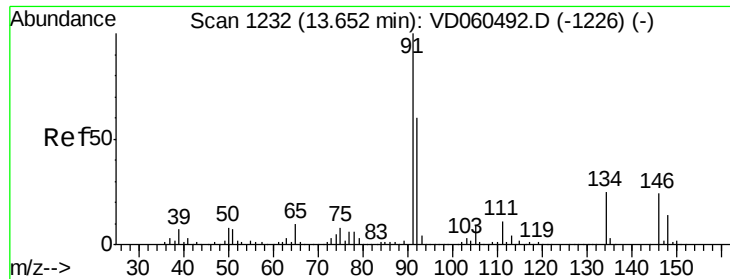
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#88
 1,4-Dichlorobenzene
 Concen: 21.187 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.6	16.4	49.1
148	64.9	32.6	98.0





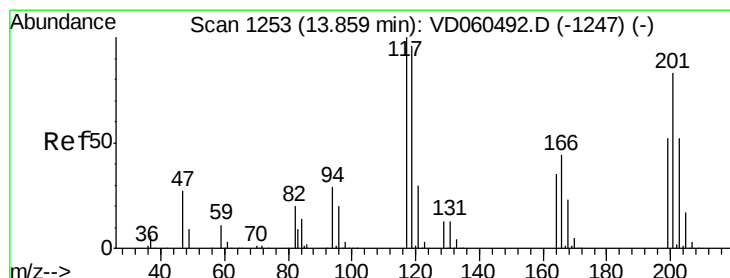
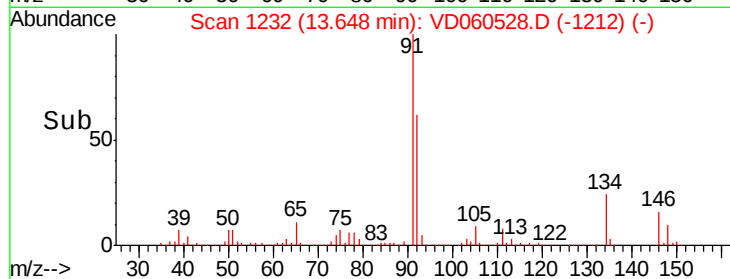
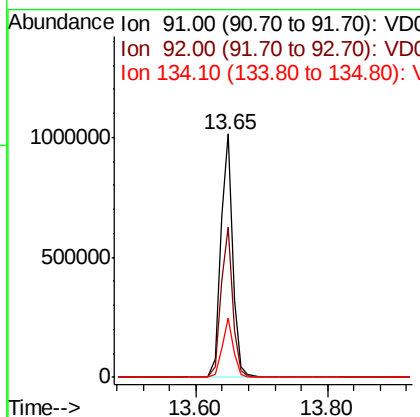
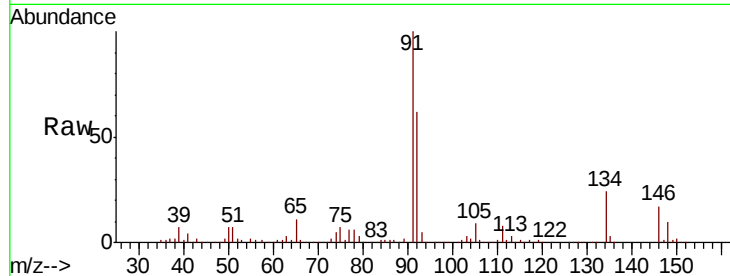
#89
n-Butylbenzene
Concen: 21.299 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1211SBS01

Tot Ion: 91 Resp: 1275575
Ion Ratio Lower Upper
91 100
92 61.5 30.0 90.1
134 24.4 12.5 37.5

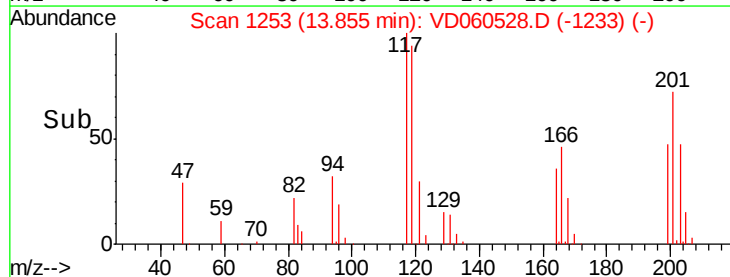
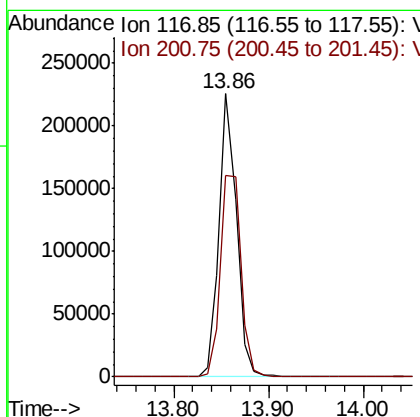
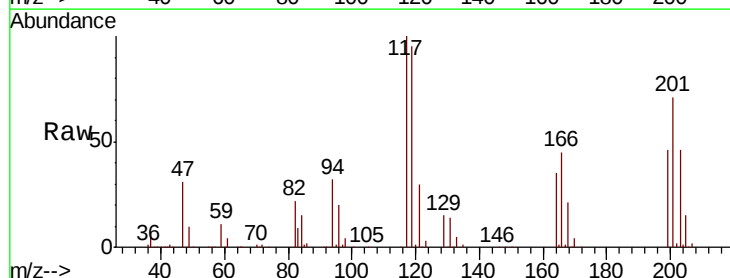
Manual Integrations
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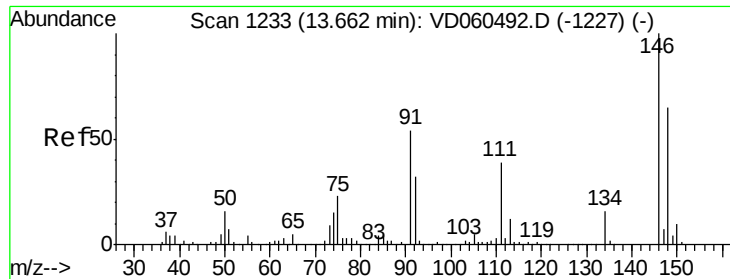
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#90
Hexachloroethane
Concen: 21.364 ug/l
RT: 13.86 min Scan# 1253
Delta R.T. -0.00 min
Lab File: VD060528.D
Acq: 11 Dec 2018 11:45

Tgt Ion: 117 Resp: 289512
Ion Ratio Lower Upper
117 100
201 71.4 41.3 123.9





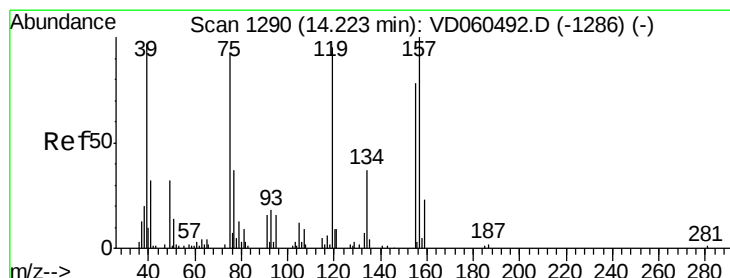
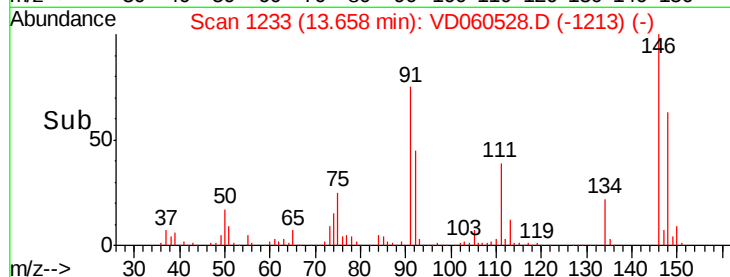
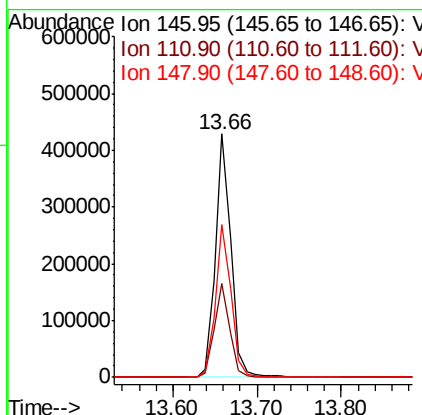
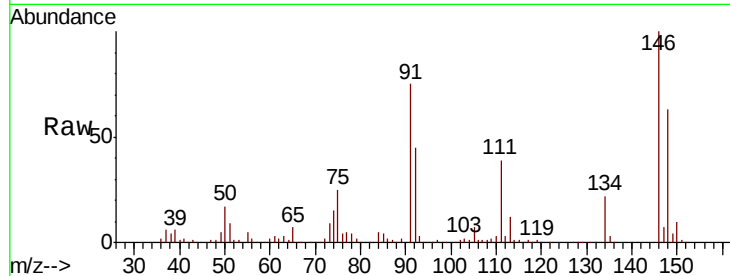
#91
 1,2-Dichlorobenzene
 Concen: 21.872 ug/l
 RT: 13.66 min Scan# 1233
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.3	57.8
148	62.8	32.3	96.8

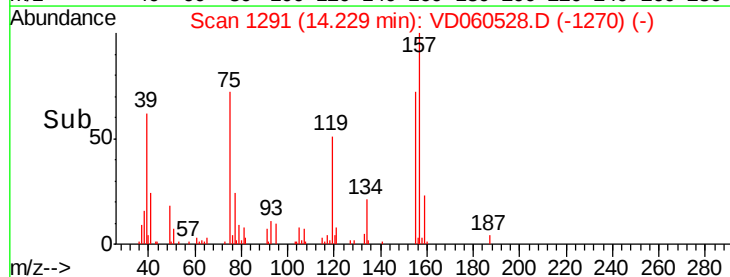
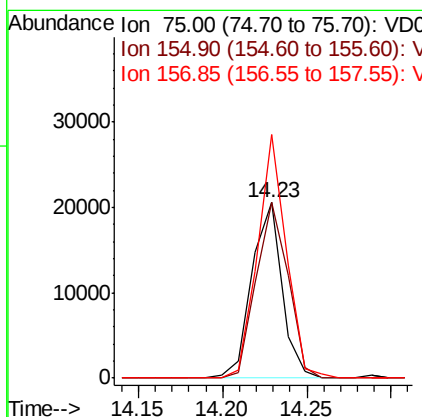
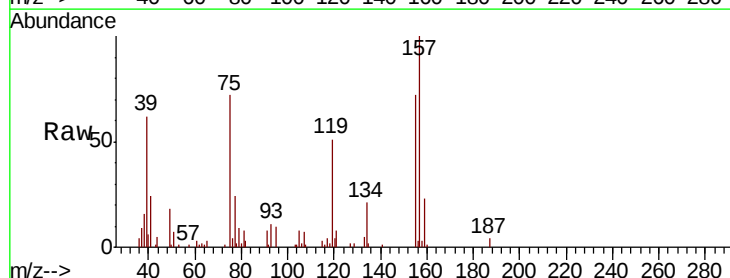
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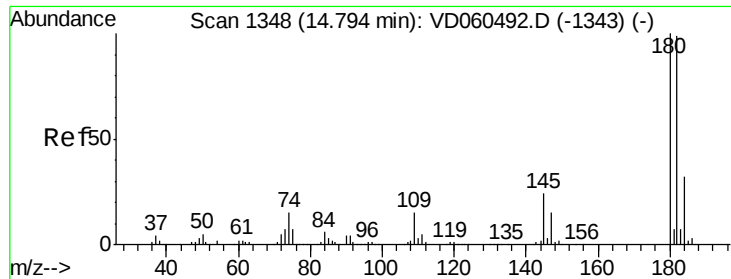
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.714 ug/l
 RT: 14.23 min Scan# 1291
 Delta R.T. 0.01 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.2	41.6	124.9
157	138.6	53.6	160.8





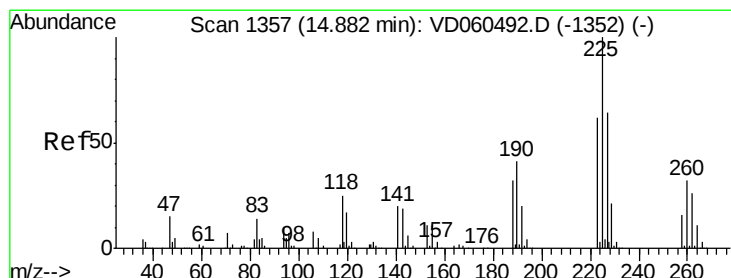
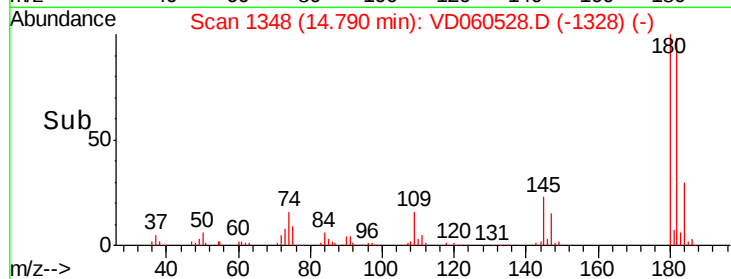
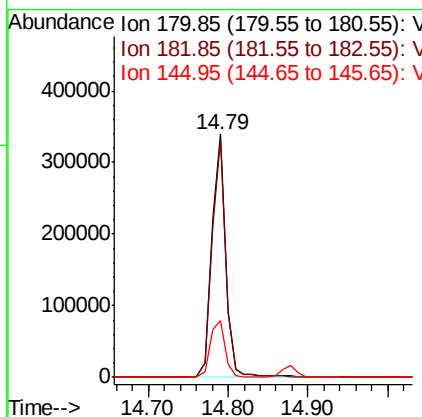
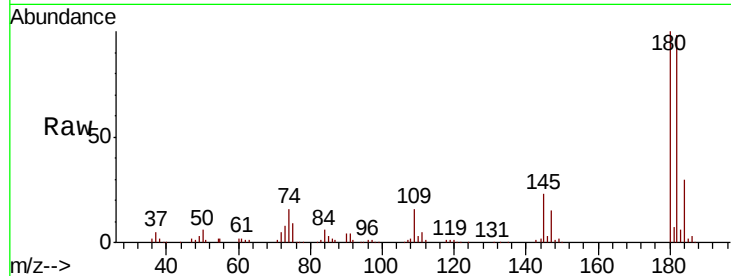
#93
 1,2,4-Trichlorobenzene
 Concen: 21.601 ug/l
 RT: 14.79 min Scan# 1348
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1211SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	419356		
182	98.2	49.4	148.0	
145	23.1	11.9	35.9	

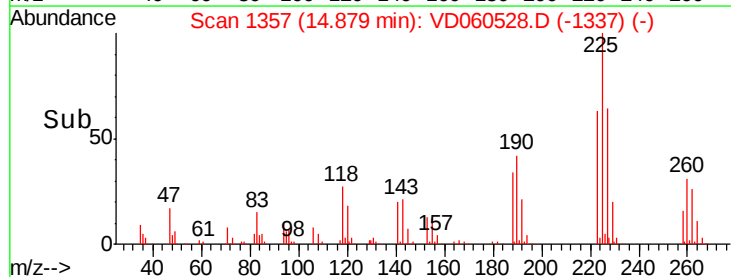
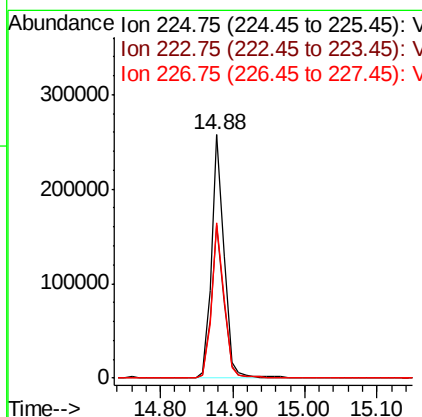
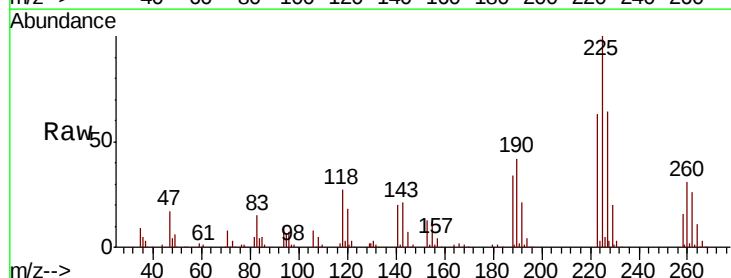
Manual Integrations
 APPROVED

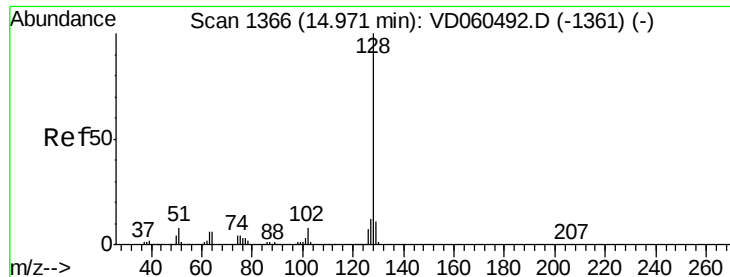
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#94
 Hexachlorobutadiene
 Concen: 21.662 ug/l
 RT: 14.88 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VD060528.D
 Acq: 11 Dec 2018 11:45

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	310272		
223	63.0	31.2	93.6	
227	63.6	32.0	96.0	





#95

Naphthalene

Concen: 20.728 ug/l

RT: 14.97 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Instrument :

MSVOA_D

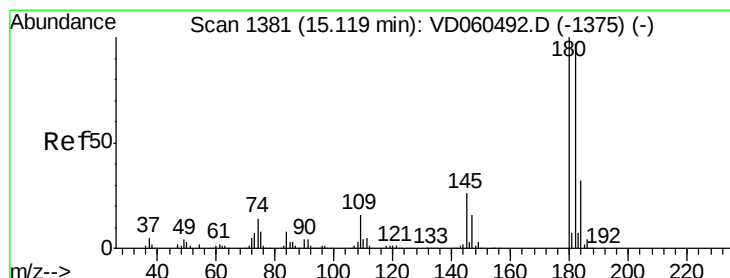
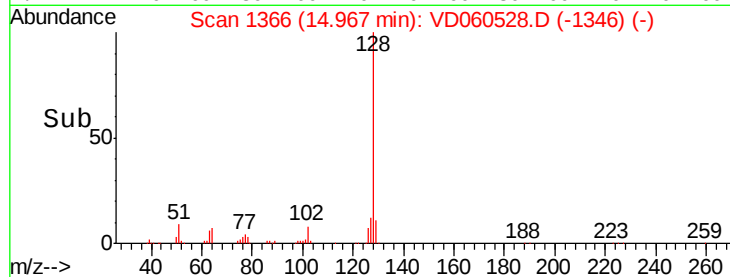
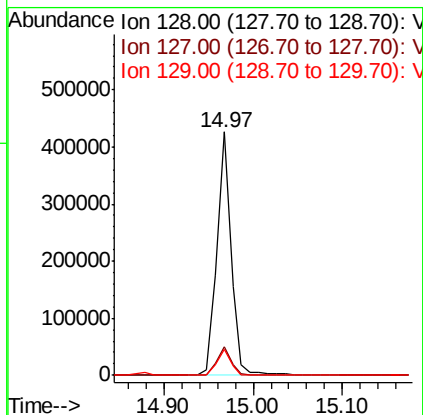
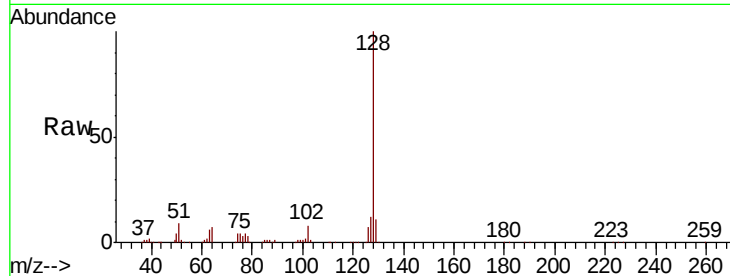
ClientSampleId :

VD1211SBS01

Tot Ion:	128	Resp:	478736
Ion Ratio	Lower	Upper	
128	100		
127	11.7	9.8	14.8
129	10.5	8.6	13.0

Manual Integrations
APPROVED

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#96

1,2,3-Trichlorobenzene

Concen: 20.589 ug/l

RT: 15.11 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VD060528.D

Acq: 11 Dec 2018 11:45

Tgt Ion:	180	Resp:	318492
Ion Ratio	Lower	Upper	
180	100		
182	95.7	48.5	145.5
145	26.2	12.9	38.7

