

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121818\
 Data File : VD060616.D
 Acq On : 18 Dec 2018 12:31
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/19/2018 2:11:58 PM

Quant Time: Dec 19 02:54:08 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	1556161	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.45	114	2119128	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1705192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	859668	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.80	65	591054	53.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.18%	
35) Dibromofluoromethane	6.33	113	856918	55.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.10%	
50) Toluene-d8	9.45	98	2586472	57.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.84%	
62) 4-Bromofluorobenzene	12.43	95	873389	54.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.60	85	711159	47.761	ug/l	98
3) Chloromethane	1.78	50	726225	45.421	ug/l	97
4) Vinyl Chloride	1.87	62	634291	49.707	ug/l	100
5) Bromomethane	2.17	94	162209	50.812	ug/l	95
6) Chloroethane	2.28	64	210759	51.319	ug/l	95
7) Trichlorofluoromethane	2.53	101	757871	51.436	ug/l	99
8) Diethyl Ether	2.84	74	134367	52.797	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.11	101	496125	51.895	ug/l	99
10) Methyl Iodide	3.26	142	574441	51.405	ug/l	96
11) Tert butyl alcohol	3.97	59	112868	251.871	ug/l #	93
12) 1,1-Dichloroethene	3.09	96	391784	50.370	ug/l	98
13) Acrolein	3.00	56	119624	244.305	ug/l	97
14) Allyl chloride	3.55	41	766376	51.931	ug/l	97
15) Acrylonitrile	4.10	53	632896	248.736	ug/l	95
16) Acetone	3.18	43	487451	275.705	ug/l	98
17) Carbon Disulfide	3.33	76	1231801	48.754	ug/l	100
18) Methyl Acetate	3.57	43	209293	49.808	ug/l	99
19) Methyl tert-butyl Ether	4.14	73	1087754	50.429	ug/l	98
20) Methylene Chloride	3.74	84	804204	49.493	ug/l	96
21) trans-1,2-Dichloroethene	4.11	96	845349	49.963	ug/l	97
22) Diisopropyl ether	4.87	45	2669606	50.384	ug/l	98
23) Vinyl Acetate	4.82	43	6640703	252.960	ug/l	100
24) 1,1-Dichloroethane	4.77	63	1412081	51.300	ug/l	100
25) 2-Butanone	5.63	43	944561	271.549	ug/l	96
26) 2,2-Dichloropropane	5.60	77	1135574	53.403	ug/l	100
27) cis-1,2-Dichloroethene	5.61	96	883209	51.340	ug/l	99
28) Bromochloromethane	5.93	49	619601	50.813	ug/l	95
29) Tetrahydrofuran	5.96	42	487232	247.357	ug/l	100
30) Chloroform	6.11	83	1419616	51.192	ug/l	100
31) Cyclohexane	6.37	56	1233781	52.617	ug/l	98
32) 1,1,1-Trichloroethane	6.30	97	1156685	50.737	ug/l	98
36) 1,1-Dichloropropene	6.53	75	1088775	52.562	ug/l	99
37) Ethyl Acetate	5.71	43	439014	48.870	ug/l #	98
38) Carbon Tetrachloride	6.50	117	999223	53.733	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.05	83	1224031	51.836	ug/l	98
40) Benzene	6.80	78	2833234	53.519	ug/l	99
41) Methacrylonitrile	5.93	41	259803m	53.649	ug/l	
42) 1,2-Dichloroethane	6.91	62	695048	51.638	ug/l	100
43) Isopropyl Acetate	8.35	43	566999	51.130	ug/l #	99
44) Trichloroethene	7.74	130	850962	53.787	ug/l	100
45) 1,2-Dichloropropane	8.11	63	686182	52.408	ug/l	97
46) Dibromomethane	8.22	93	391732	51.784	ug/l	96
47) Bromodichloromethane	8.49	83	971141	54.105	ug/l	99
48) Methyl methacrylate	8.25	41	355231	54.139	ug/l	95
49) 1,4-Dioxane	8.23	88	63962	1075.556	ug/l #	86
51) 4-Methyl-2-Pentanone	9.35	43	1837379	266.362	ug/l	99
52) Toluene	9.55	92	1725027	52.135	ug/l	99
53) t-1,3-Dichloropropene	9.92	75	798373	54.132	ug/l	98
54) cis-1,3-Dichloropropene	9.11	75	1050964	54.236	ug/l	100
55) 1,1,2-Trichloroethane	10.18	97	467088	50.691	ug/l	98
56) Ethyl methacrylate	10.03	69	447449	53.656	ug/l	99
57) 1,3-Dichloropropane	10.39	76	766768	53.830	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.92	63	1308054	262.149	ug/l	99
59) 2-Hexanone	10.49	43	1336044	277.097	ug/l	100
60) Dibromochloromethane	10.65	129	630454	54.725	ug/l	98
61) 1,2-Dibromoethane	10.76	107	494967	52.710	ug/l	97
64) Tetrachloroethene	10.25	164	771929	51.124	ug/l	99
65) Chlorobenzene	11.31	112	1851520	51.325	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.42	131	624126	53.678	ug/l	99
67) Ethyl Benzene	11.43	91	3236710	52.602	ug/l	99
68) m/p-Xylenes	11.57	106	2322067	102.005	ug/l	100
69) o-Xylene	11.93	106	1118845	51.573	ug/l	95
70) Styrene	11.95	104	1816915	52.177	ug/l	96
71) Bromoform	12.12	173	415533	53.566	ug/l	98
73) Isopropylbenzene	12.28	105	3080690	50.642	ug/l	100
74) N-amyl acetate	12.13	43	743136	50.546	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.56	83	495351	50.863	ug/l	97
76) 1,2,3-Trichloropropane	12.59	75	502165	51.554	ug/l	97
77) Bromobenzene	12.54	156	840544	52.566	ug/l	91
78) n-propylbenzene	12.64	91	3889596	50.581	ug/l	98
79) 2-Chlorotoluene	12.71	91	2140585	51.299	ug/l	98
80) 1,3,5-Trimethylbenzene	12.79	105	2381910	51.242	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.35	75	144263	53.103	ug/l	96
82) 4-Chlorotoluene	12.81	91	2370795	50.586	ug/l	93
83) tert-Butylbenzene	13.05	119	2701084	51.825	ug/l	93
84) 1,2,4-Trimethylbenzene	13.10	105	2387776	49.610	ug/l	98
85) sec-Butylbenzene	13.22	105	3240150	49.879	ug/l	96
86) p-Isopropyltoluene	13.34	119	2612252	50.729	ug/l	98
87) 1,3-Dichlorobenzene	13.31	146	1467223	50.678	ug/l	97
88) 1,4-Dichlorobenzene	13.39	146	1438927	50.662	ug/l	96
89) n-Butylbenzene	13.65	91	2674028	53.081	ug/l	98
90) Hexachloroethane	13.86	117	686754	53.191	ug/l	86
91) 1,2-Dichlorobenzene	13.67	146	1172961	49.575	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.23	75	60295	51.095	ug/l	84

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Quant Title : SW846 8260
QLast Update : Thu Dec 06 01:49:20 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.79	180	956217	51.699	ug/l	96
94) Hexachlorobutadiene	14.89	225	706367	51.762	ug/l	99
95) Naphthalene	14.97	128	1125727	51.161	ug/l	99
96) 1,2,3-Trichlorobenzene	15.11	180	736666	49.986	ug/l	97

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

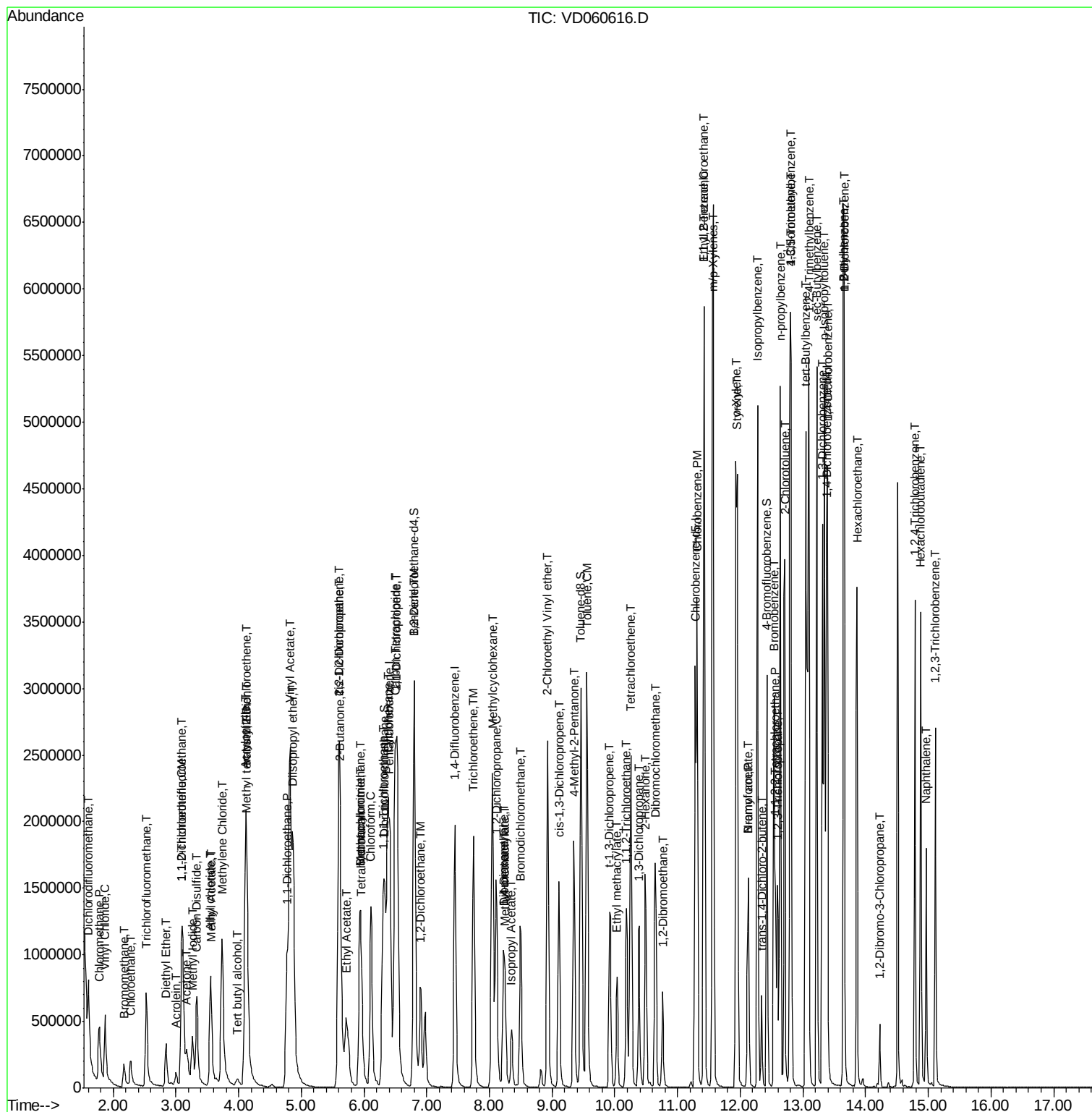
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 Acq On : 18 Dec 2018 12:31
 Operator : VA/AP
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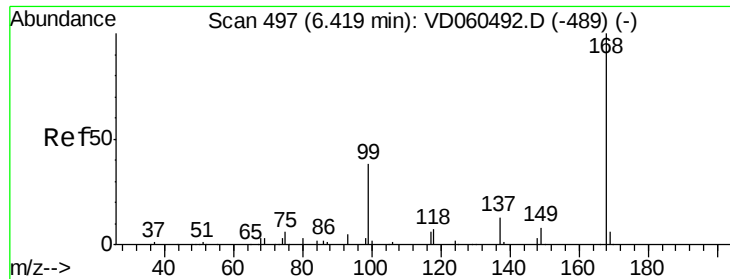
Instrument :
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#1

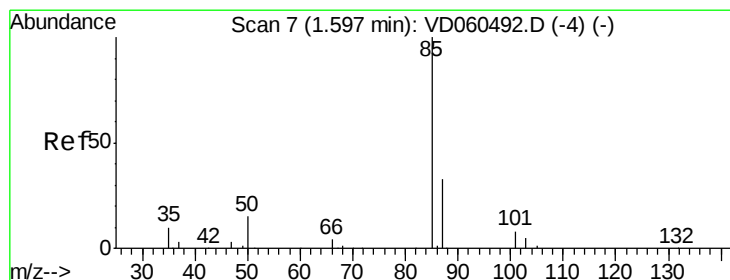
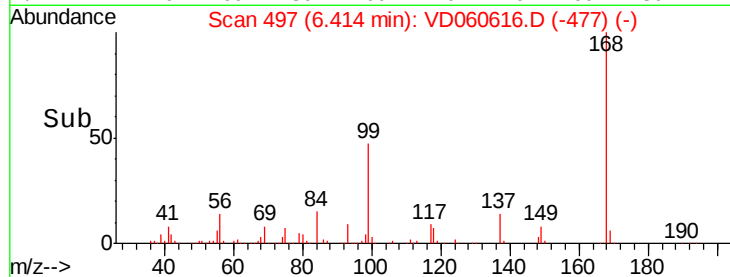
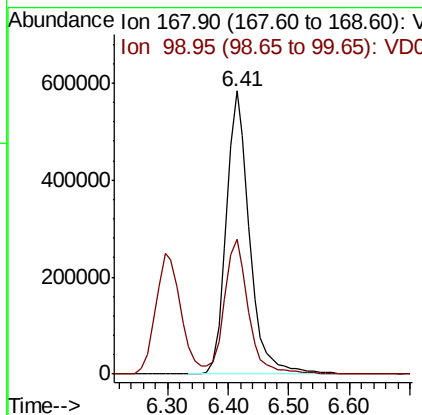
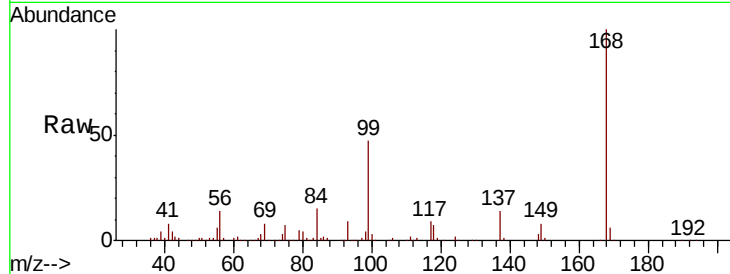
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 6.41 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Instrument :
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 ClientSampleId :
 VSTDCCC050

Tot Ion:168 Resp: 1556161
 Ion Ratio Lower Upper
 168 100
 99 47.5 35.6 53.4

Manual Integrations
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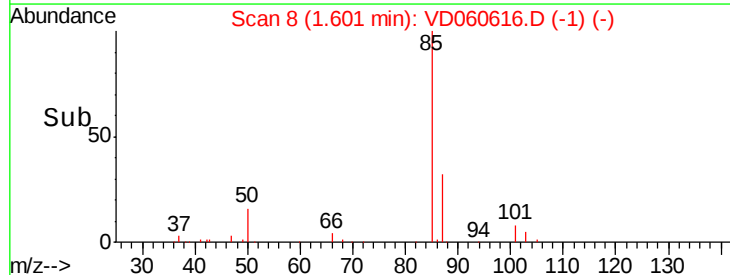
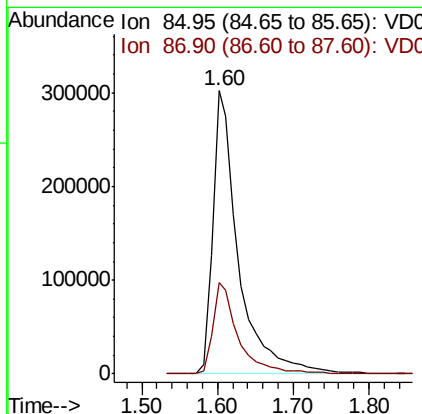
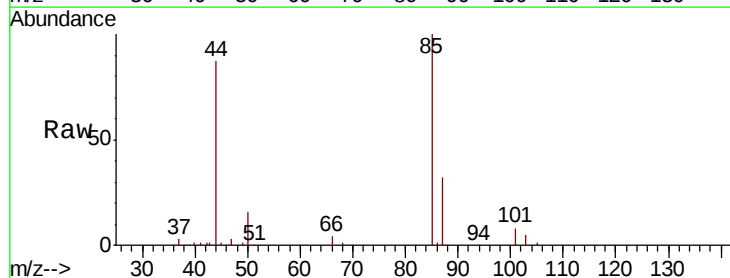
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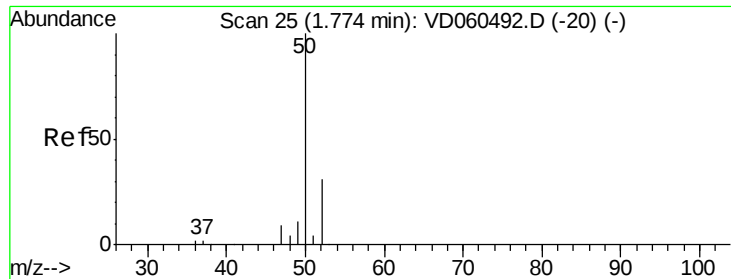


#2

Dichlorodifluoromethane
 Concen: 47.761 ug/l
 RT: 1.60 min Scan# 8
 Delta R.T. 0.00 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Tgt Ion: 85 Resp: 711159
 Ion Ratio Lower Upper
 85 100
 87 32.3 16.7 50.0





#3

Chloromethane

Concen: 45.421 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 726225

Ion Ratio Lower Upper

50 100

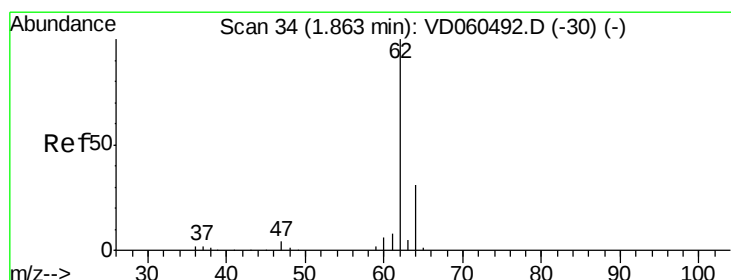
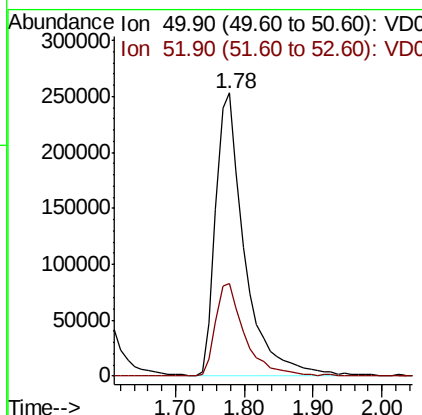
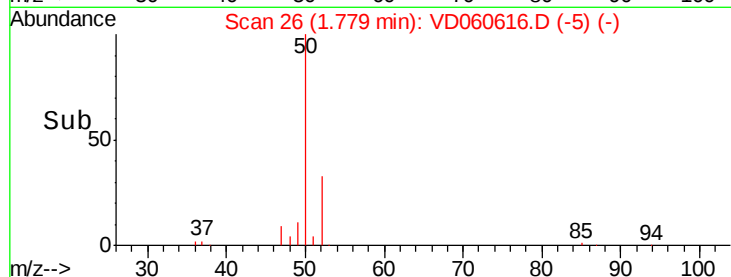
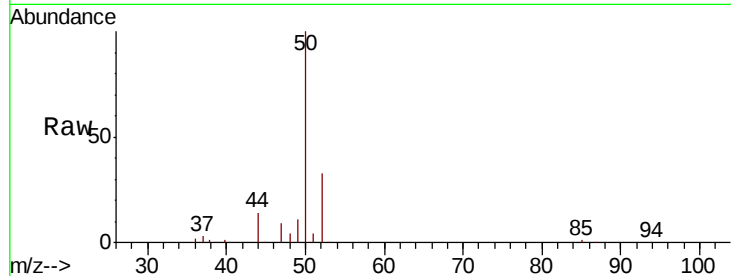
52 32.9 25.0 37.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 49.707 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.00 min

Lab File: VD060616.D

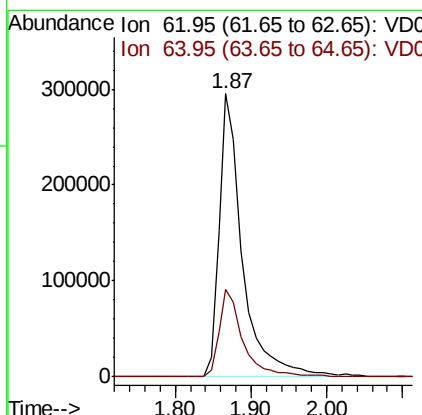
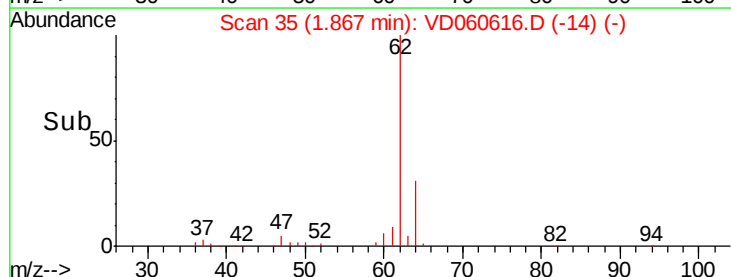
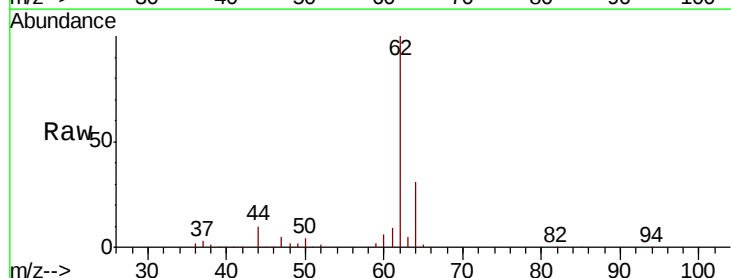
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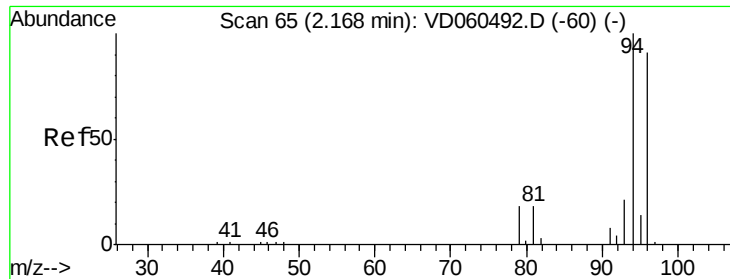
Tgt Ion: 62 Resp: 634291

Ion Ratio Lower Upper

62 100

64 30.9 24.6 37.0





#5

Bromomethane

Concen: 50.812 ug/l

RT: 2.17 min Scan# 66

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 162209

Ion Ratio Lower Upper

94 100

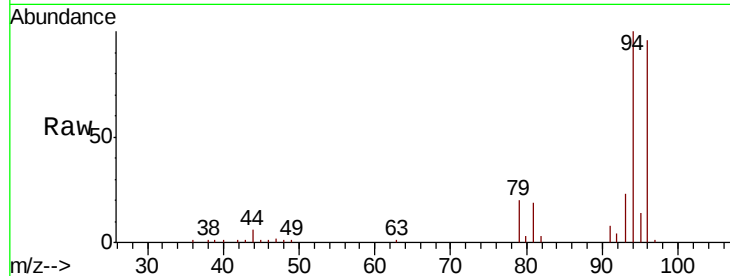
96 95.6 72.6 108.8

Manual Integrations

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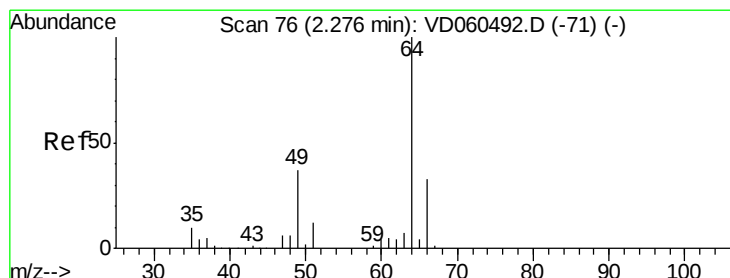
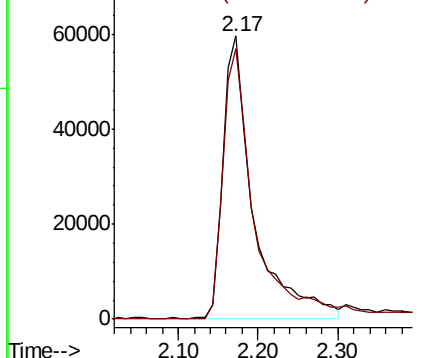
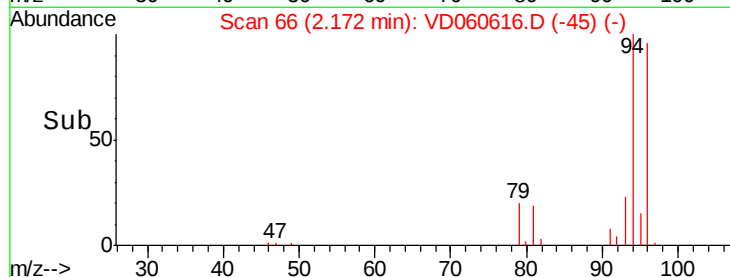
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Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 51.319 ug/l

RT: 2.28 min Scan# 77

Delta R.T. 0.00 min

Lab File: VD060616.D

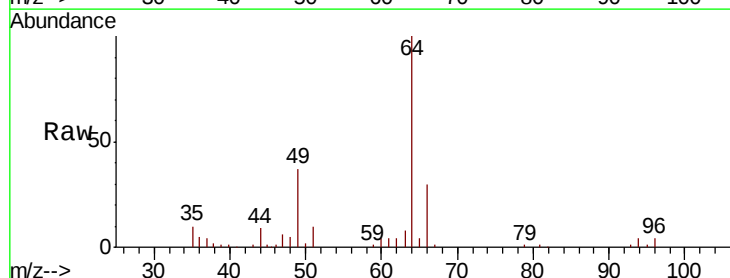
Acq: 18 Dec 2018 12:31

Tgt Ion: 64 Resp: 210759

Ion Ratio Lower Upper

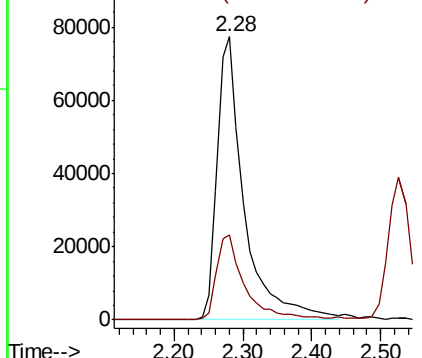
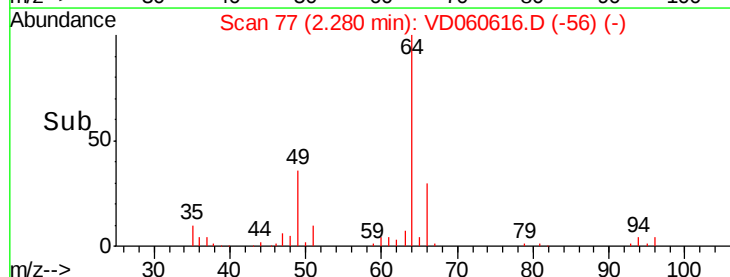
64 100

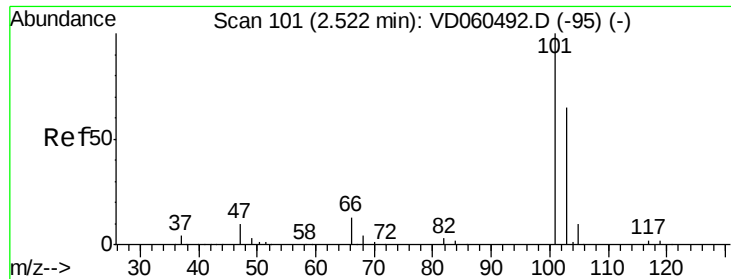
66 30.2 26.4 39.6



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

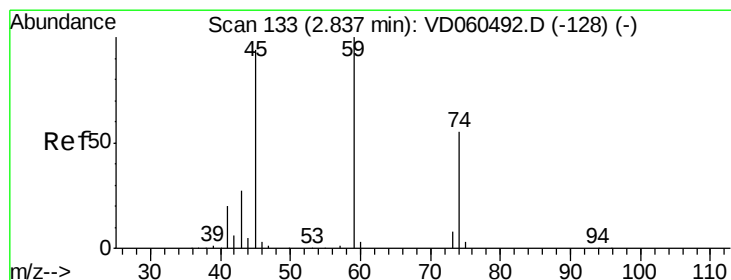
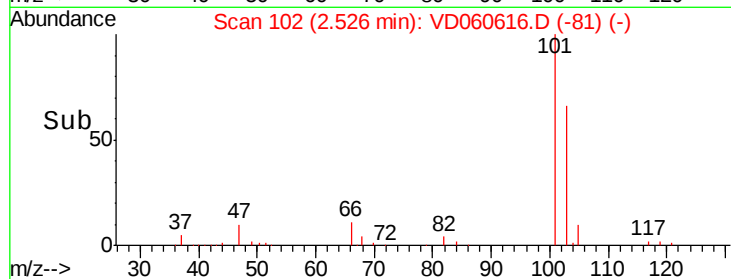
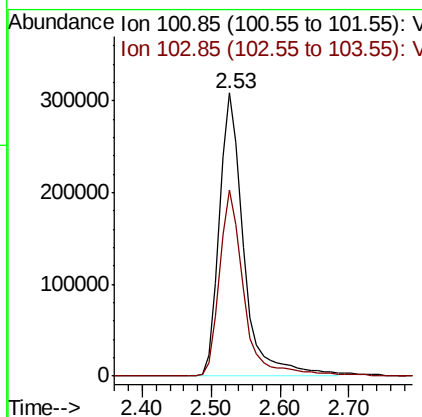
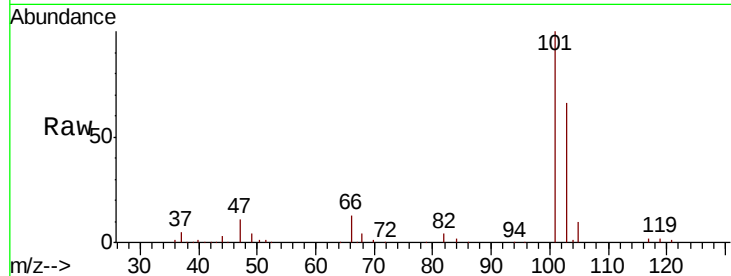
Trichlorofluoromethane
Concen: 51.436 ug/l
RT: 2.53 min Scan# 102
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
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Tot Ion:101 Resp: 757871
Ion Ratio Lower Upper
101 100
103 65.8 51.8 77.8

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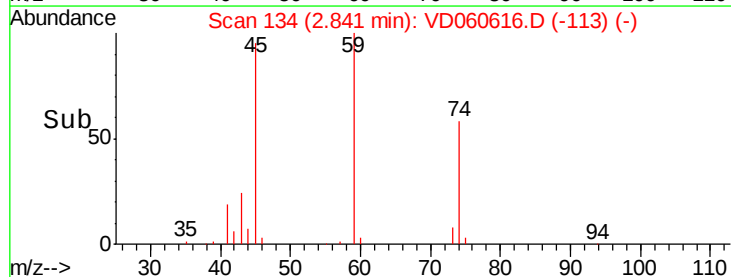
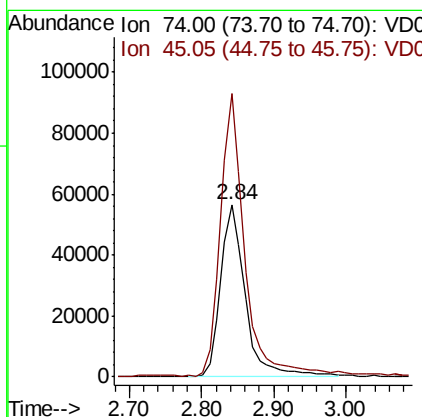
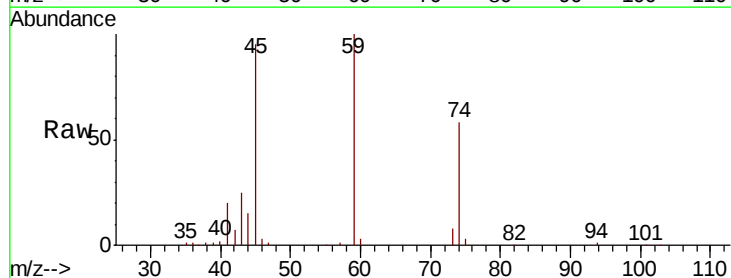
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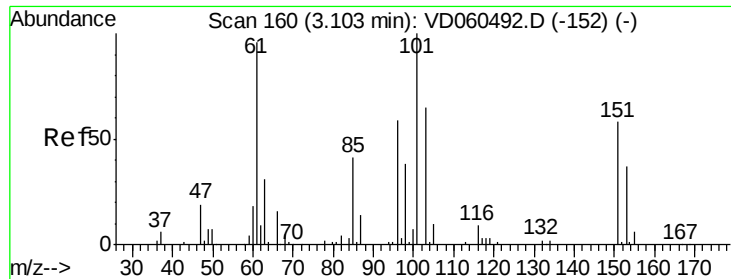


#8

Diethyl Ether
Concen: 52.797 ug/l
RT: 2.84 min Scan# 134
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 74 Resp: 134367
Ion Ratio Lower Upper
74 100
45 164.1 86.0 258.0





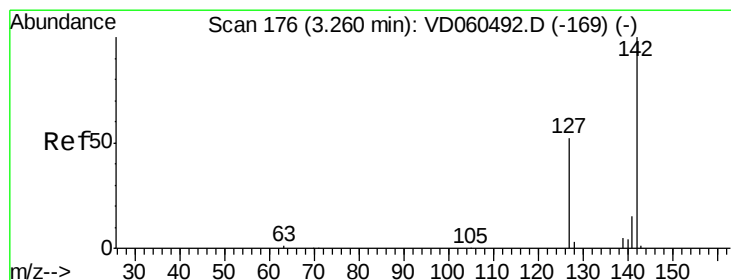
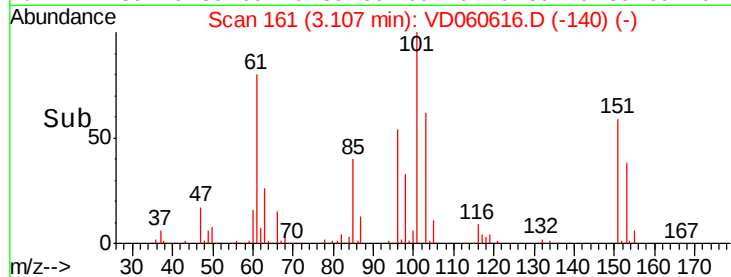
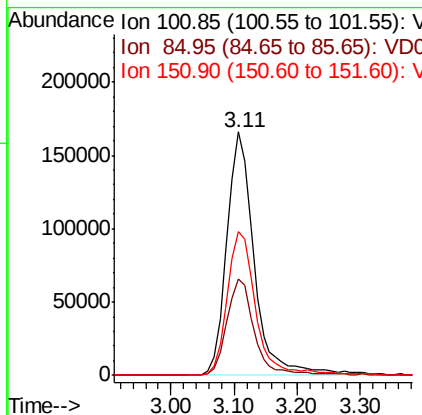
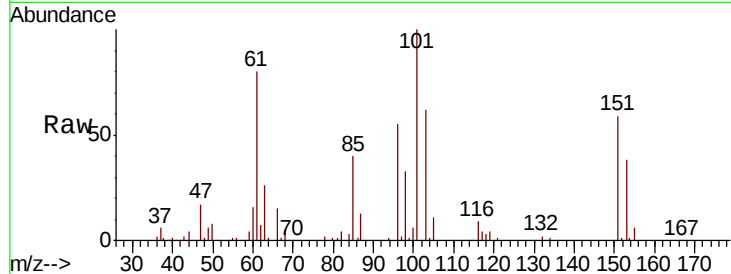
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.895 ug/l
RT: 3.11 min Scan# 161
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	496125		
85	39.7	32.7	49.1	
151	58.9	46.6	69.8	

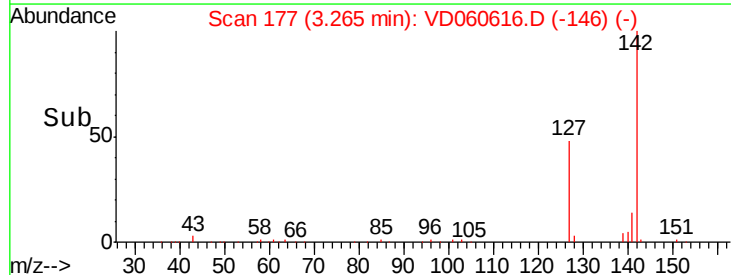
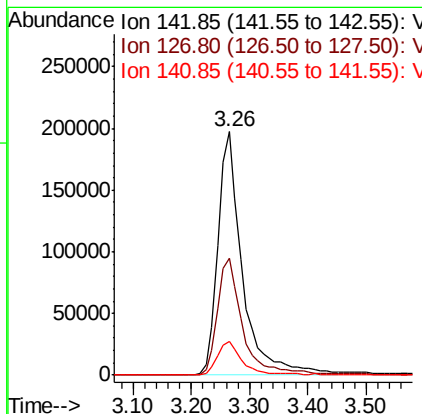
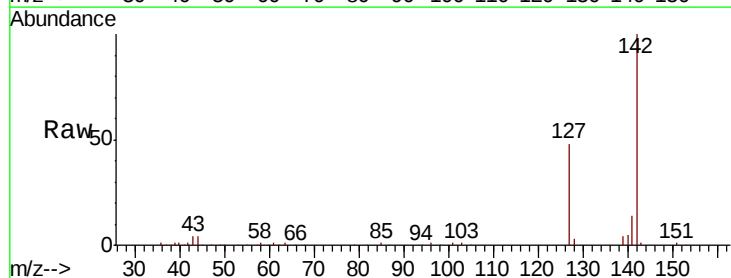
Manual Integrations
APPROVED

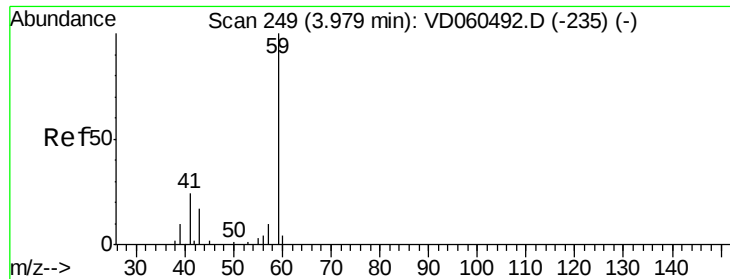
MMDadoda
12/19/2018 2:11:58 PM



#10
Methyl Iodide
Concen: 51.405 ug/l
RT: 3.26 min Scan# 177
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	574441		
127	48.2	41.2	61.8	
141	14.0	11.9	17.9	





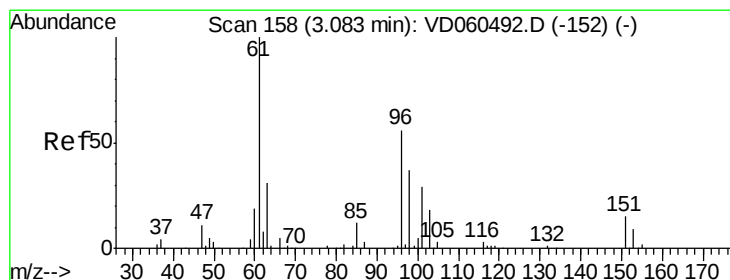
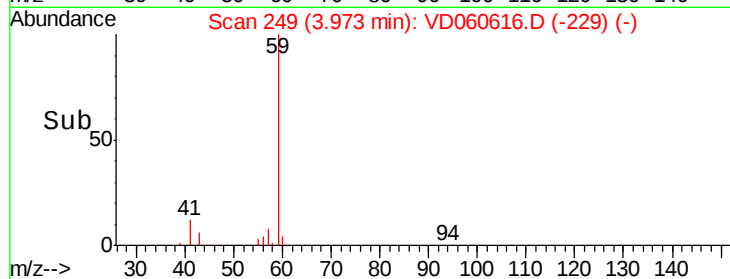
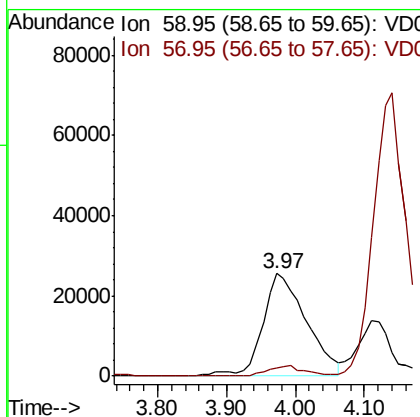
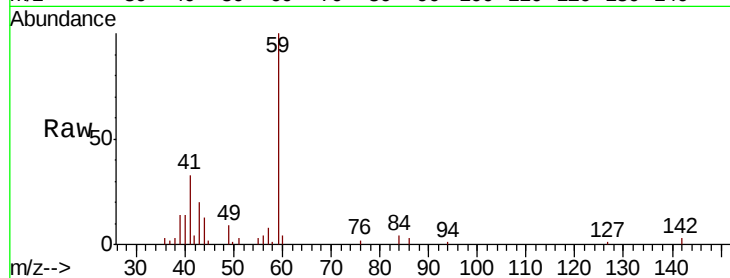
#11
Tert butyl alcohol
Concen: 251.871 ug/l
RT: 3.97 min Scan# 249
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 112868
Ion Ratio Lower Upper
59 100
57 7.5 8.1 12.1#

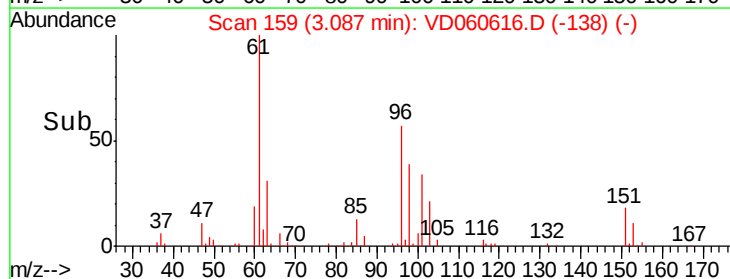
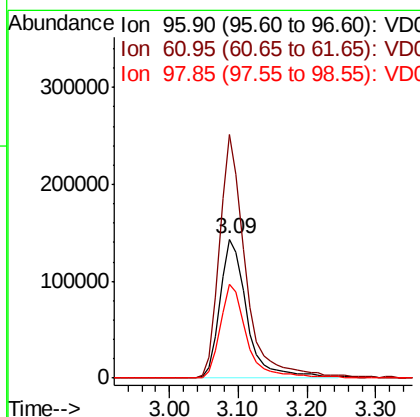
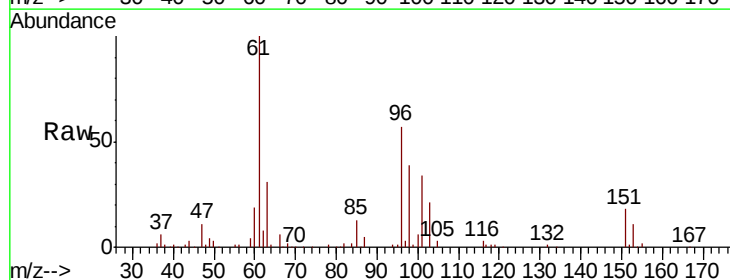
Manual Integrations
APPROVED

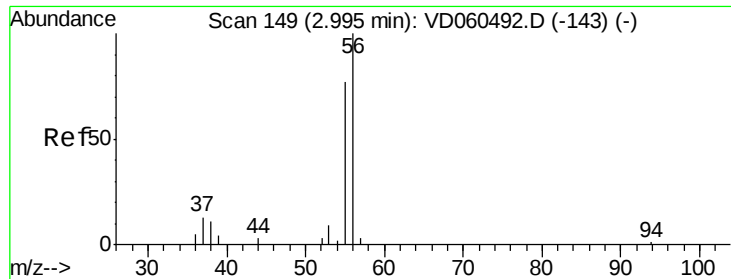
MMDadoda
12/19/2018 2:11:58 PM



#12
1,1-Dichloroethene
Concen: 50.370 ug/l
RT: 3.09 min Scan# 159
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 96 Resp: 391784
Ion Ratio Lower Upper
96 100
61 175.3 143.0 214.4
98 68.0 53.4 80.0





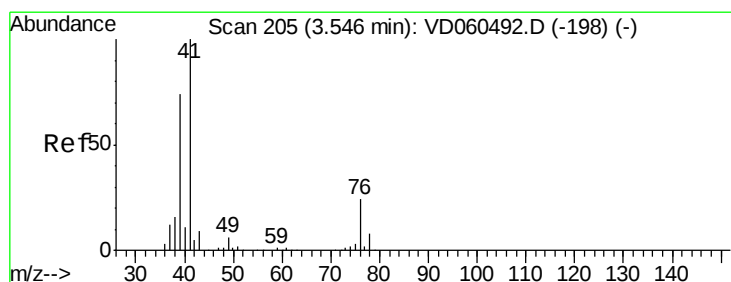
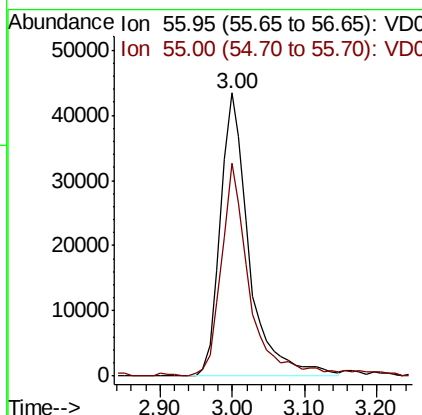
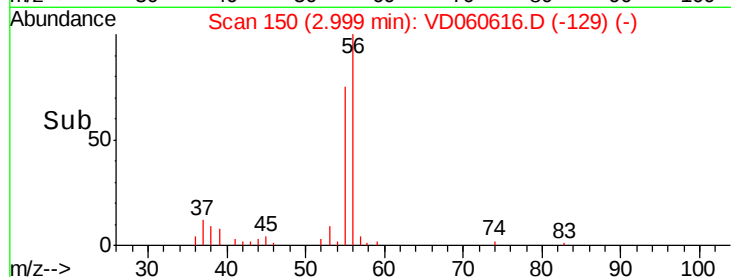
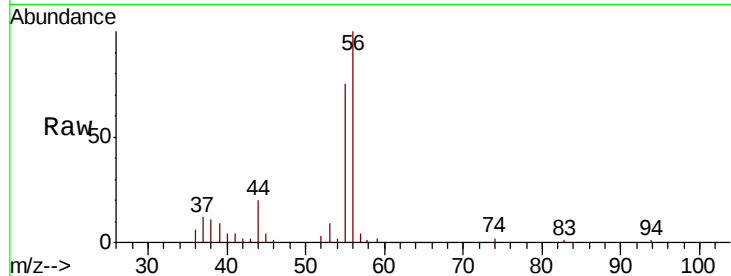
#13
Acrolein
Concen: 244.305 ug/l
RT: 3.00 min Scan# 150
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 119624
Ion Ratio Lower Upper
56 100
55 75.2 62.0 93.0

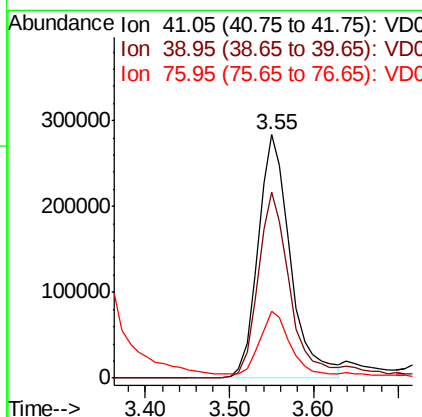
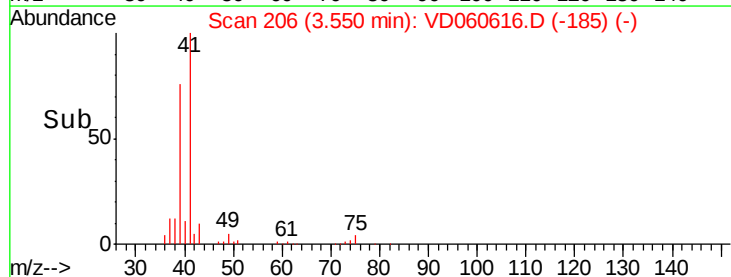
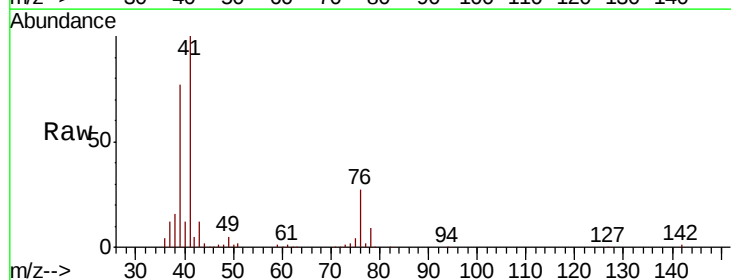
Manual Integrations
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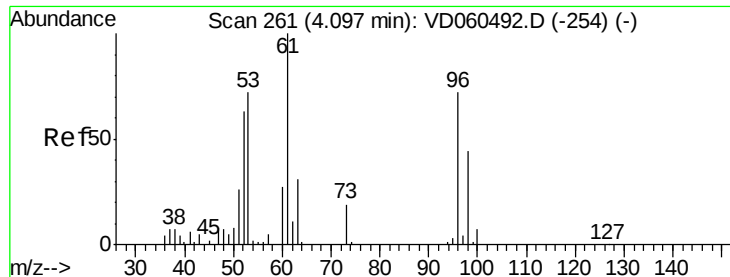
MMDadoda
12/19/2018 2:11:58 PM



#14
Allyl chloride
Concen: 51.931 ug/l
RT: 3.55 min Scan# 206
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 41 Resp: 766376
Ion Ratio Lower Upper
41 100
39 76.6 59.3 88.9
76 27.5 21.0 31.6





#15

Acrylonitrile

Concen: 248.736 ug/l

RT: 4.10 min Scan# 262

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 632896

Ion Ratio Lower Upper

53 100

52 81.9 70.0 105.0

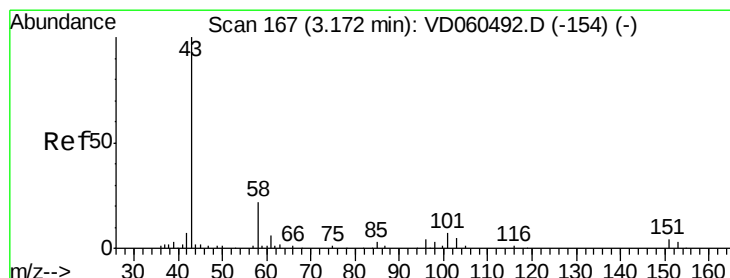
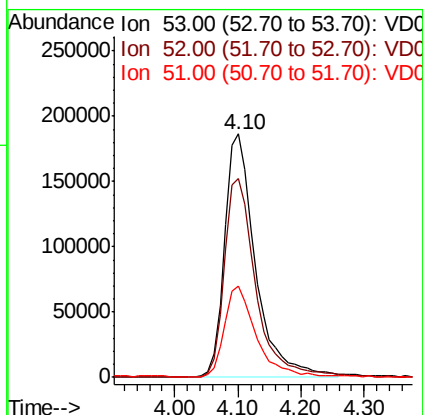
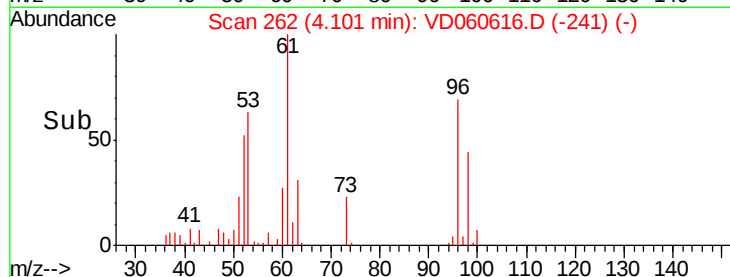
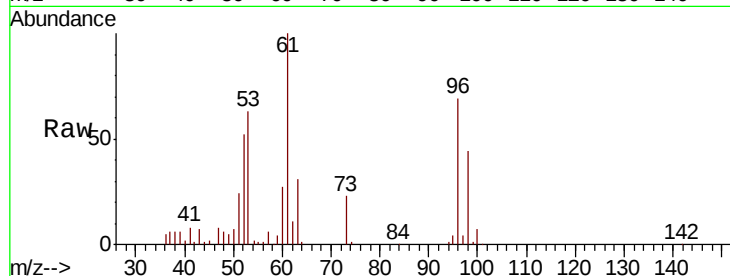
51 37.5 28.8 43.2

Manual Integrations

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#16

Acetone

Concen: 275.705 ug/l

RT: 3.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VD060616.D

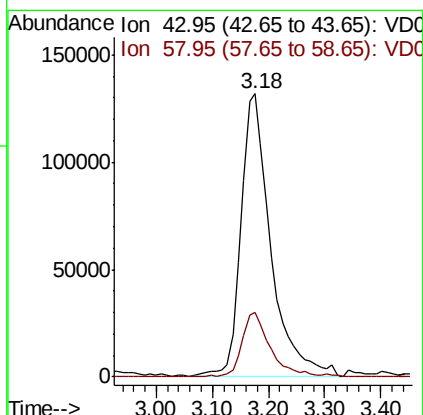
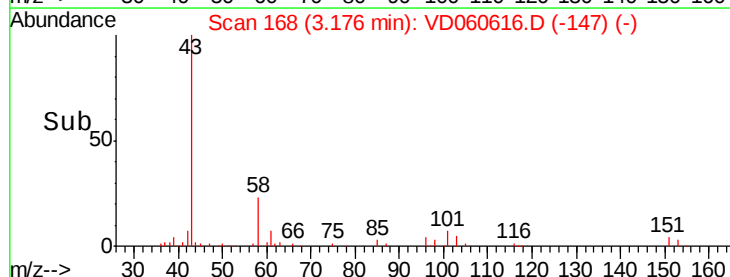
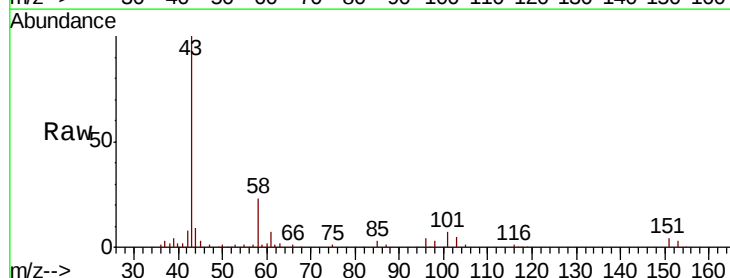
Acq: 18 Dec 2018 12:31

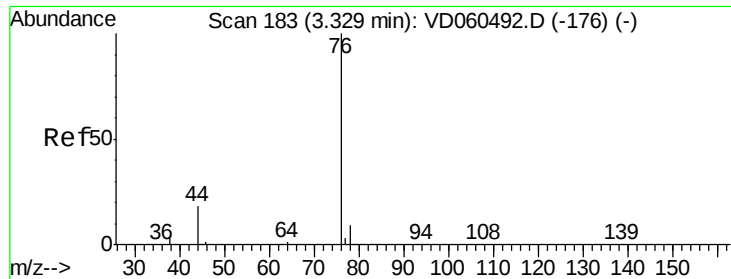
Tgt Ion: 43 Resp: 487451

Ion Ratio Lower Upper

43 100

58 22.6 17.3 25.9





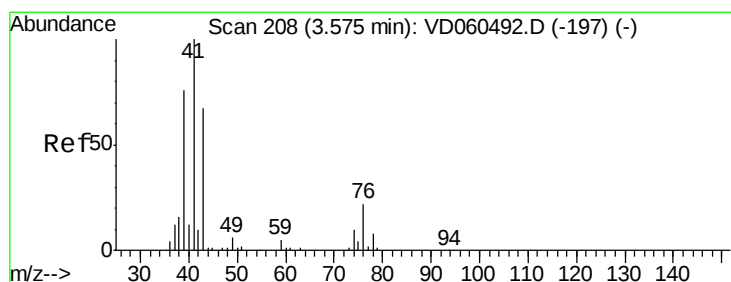
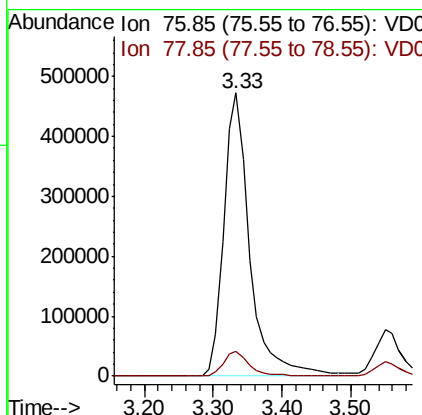
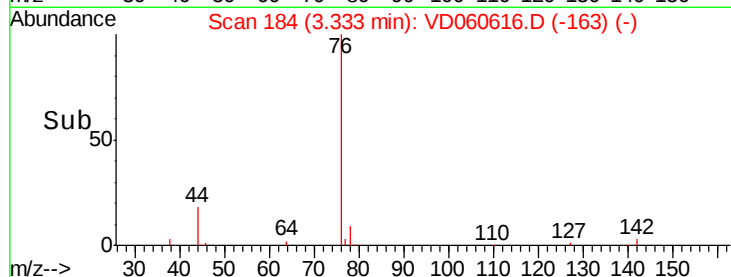
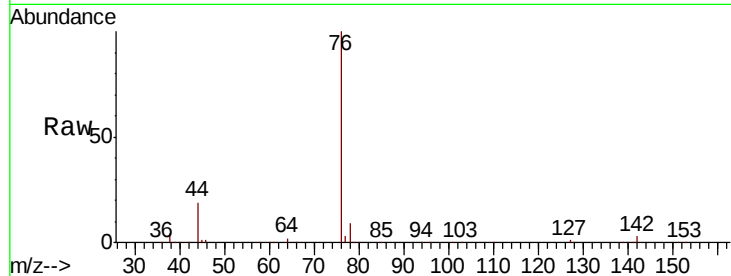
#17
Carbon Disulfide
Concen: 48.754 ug/l
RT: 3.33 min Scan# 184
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1231801
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.6

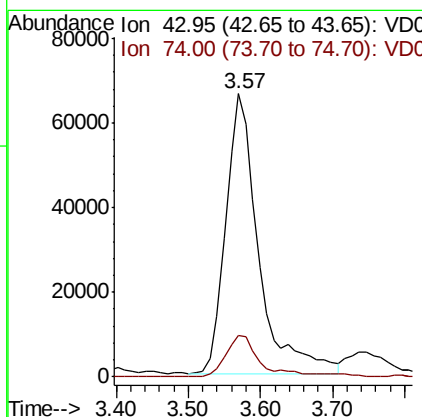
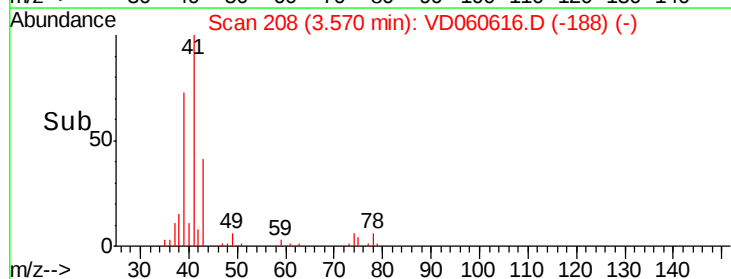
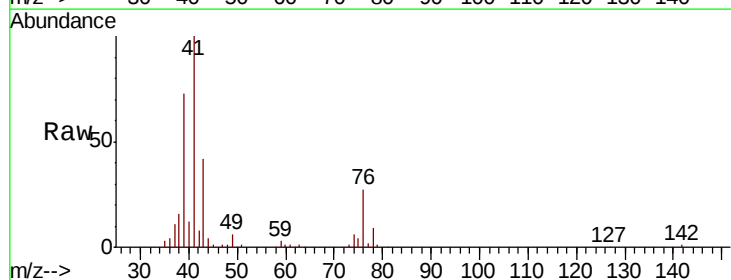
Manual Integrations
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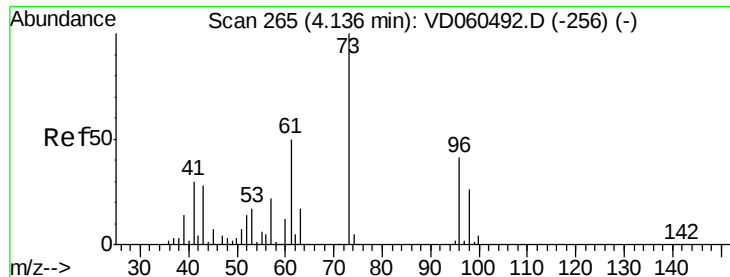
MMDadoda
12/19/2018 2:11:58 PM



#18
Methyl Acetate
Concen: 49.808 ug/l
RT: 3.57 min Scan# 208
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 43 Resp: 209293
Ion Ratio Lower Upper
43 100
74 14.6 12.0 18.0





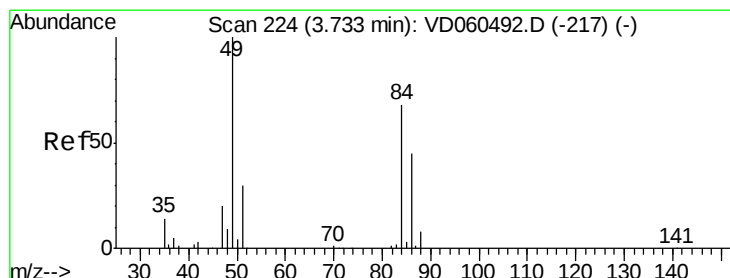
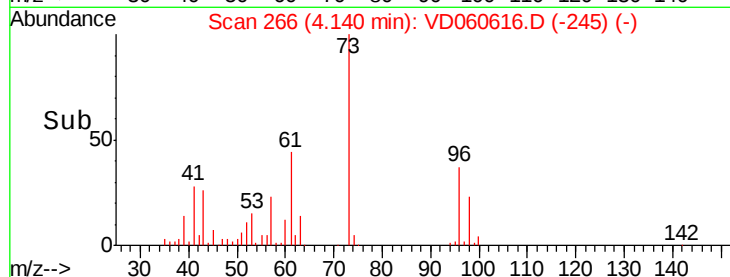
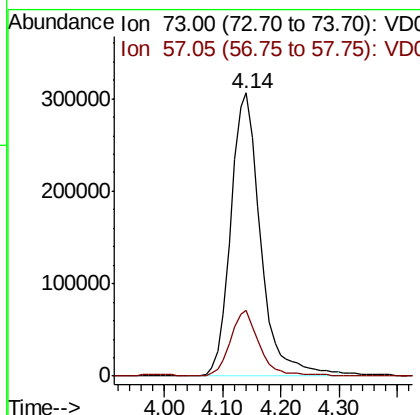
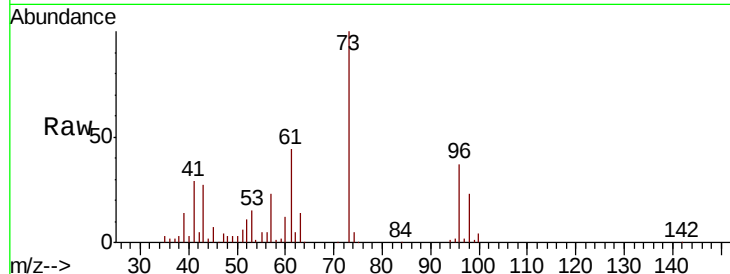
#19
Methyl tert-butyl Ether
Concen: 50.429 ug/l
RT: 4.14 min Scan# 266
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1087754
Ion Ratio Lower Upper
73 100
57 23.0 17.8 26.6

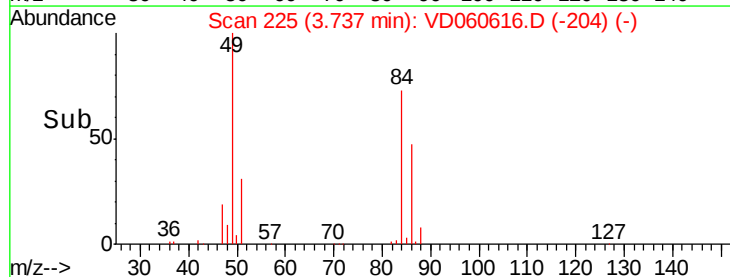
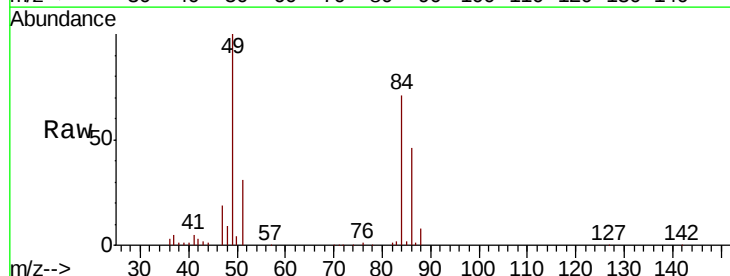
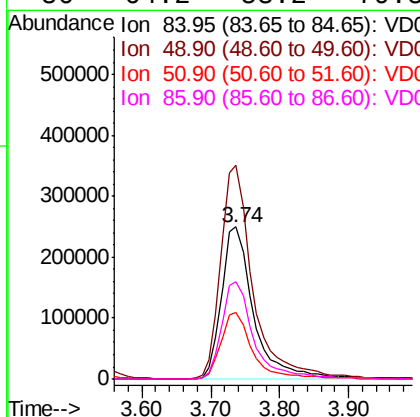
Manual Integrations
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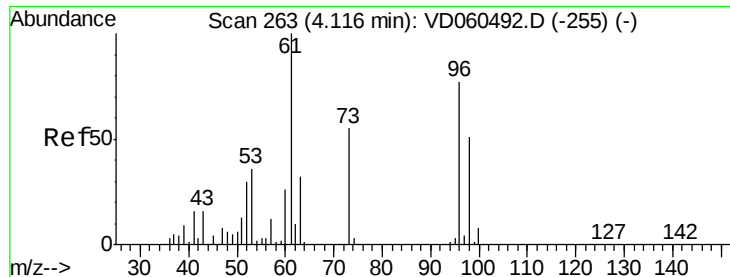
MMDadoda
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#20
Methylene Chloride
Concen: 49.493 ug/l
RT: 3.74 min Scan# 225
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 84 Resp: 804204
Ion Ratio Lower Upper
84 100
49 140.3 117.2 175.8
51 43.4 35.3 52.9
86 64.2 53.2 79.8





#21

trans-1,2-Dichloroethene

Concen: 49.963 ug/l

RT: 4.11 min Scan# 263

Delta R.T. -0.01 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 845349

Ion Ratio Lower Upper

96 100

61 134.0 104.2 156.4

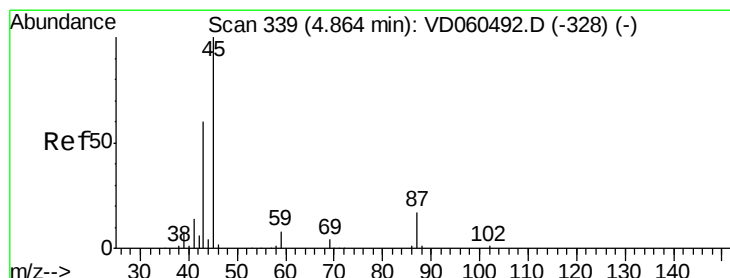
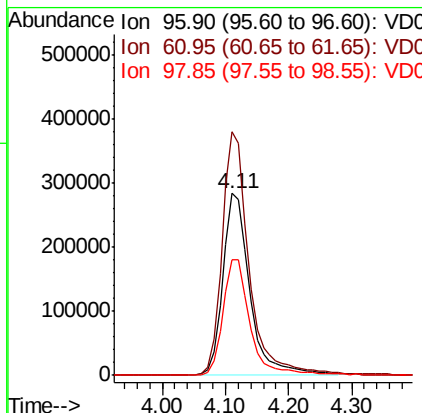
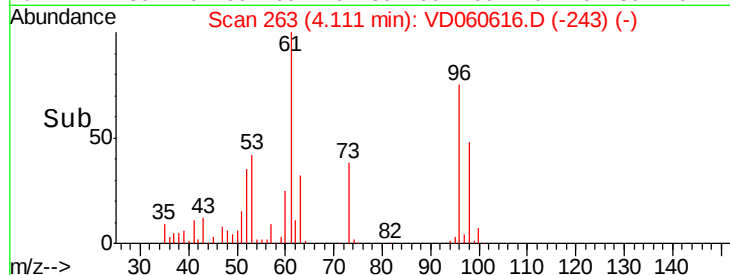
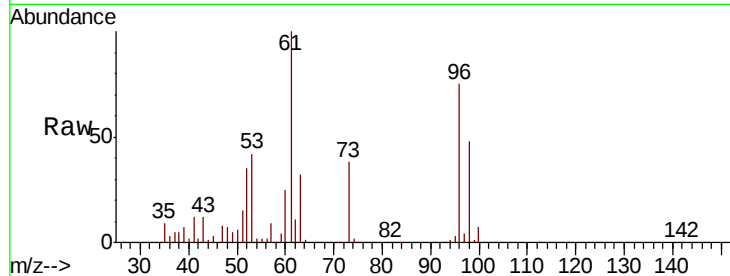
98 63.8 52.8 79.2

Manual Integrations

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#22

Diisopropyl ether

Concen: 50.384 ug/l

RT: 4.87 min Scan# 340

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Tgt Ion: 45 Resp: 2669606

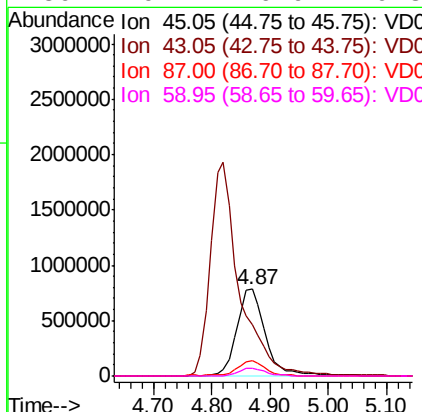
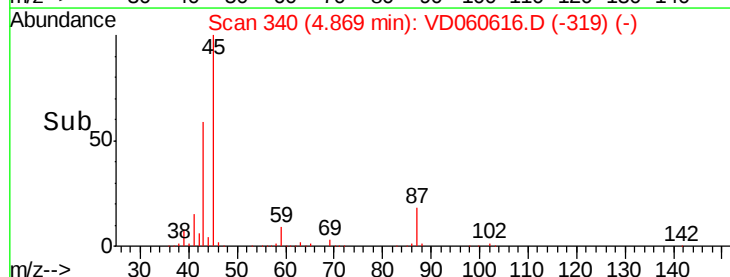
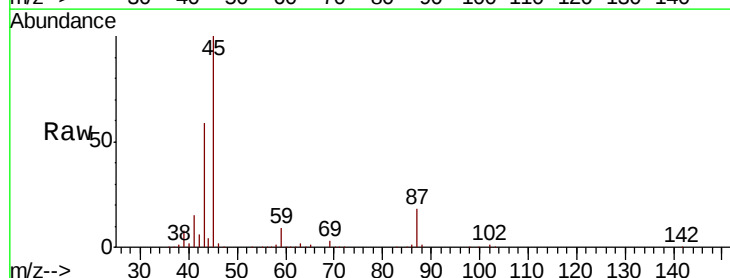
Ion Ratio Lower Upper

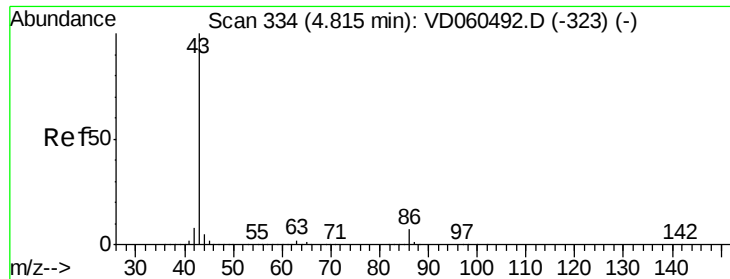
45 100

43 58.6 48.6 73.0

87 17.8 14.0 21.0

59 9.2 6.9 10.3





#23

Vinyl Acetate

Concen: 252.960 ug/l

RT: 4.82 min Scan# 335

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 6640703

Ion Ratio Lower Upper

43 100

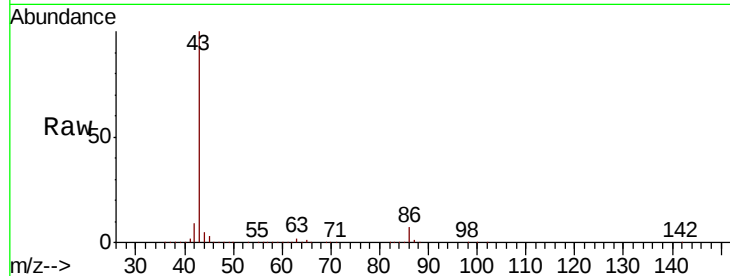
86 7.0 5.5 8.3

Manual Integrations

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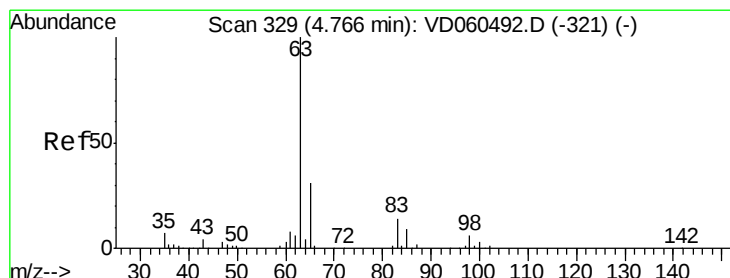
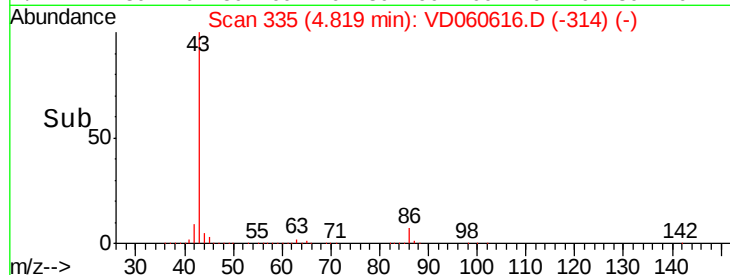
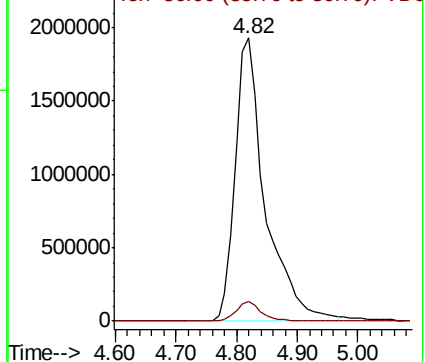
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 51.300 ug/l

RT: 4.77 min Scan# 330

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

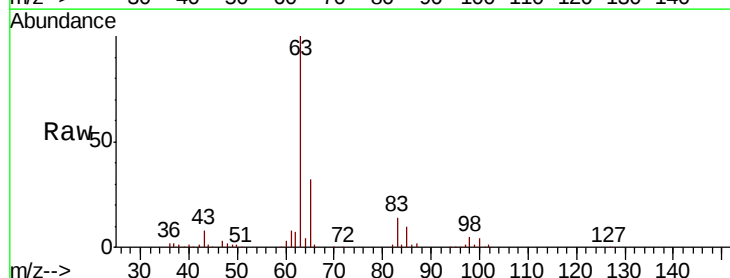
Tgt Ion: 63 Resp: 1412081

Ion Ratio Lower Upper

63 100

98 5.4 2.8 8.3

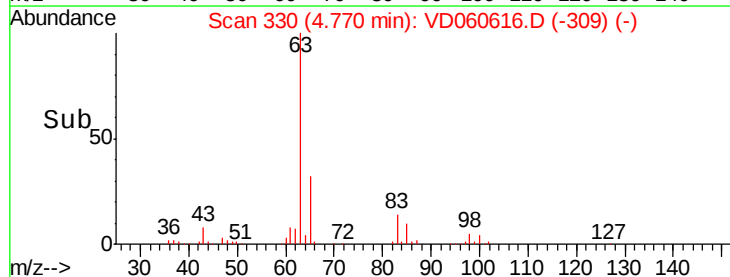
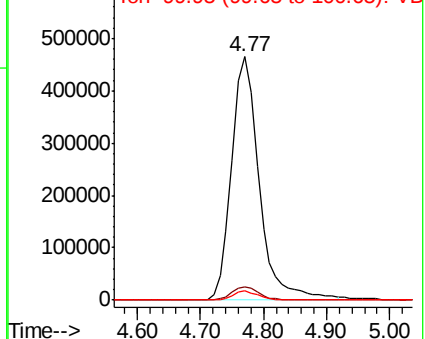
100 3.6 1.7 5.1

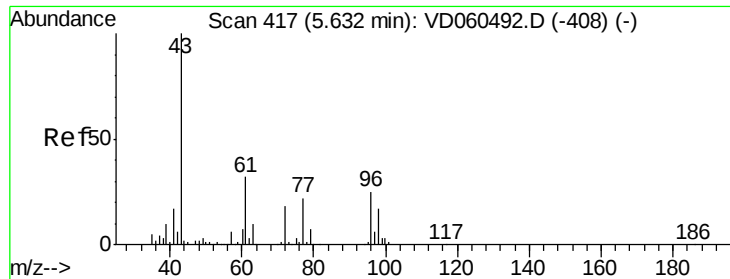


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 271.549 ug/l

RT: 5.63 min Scan# 417

Delta R.T. -0.01 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 944561

Ion Ratio Lower Upper

43 100

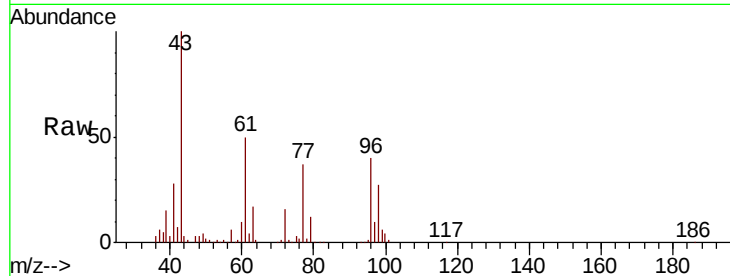
72 16.2 14.6 21.8

Manual Integrations

APPROVED

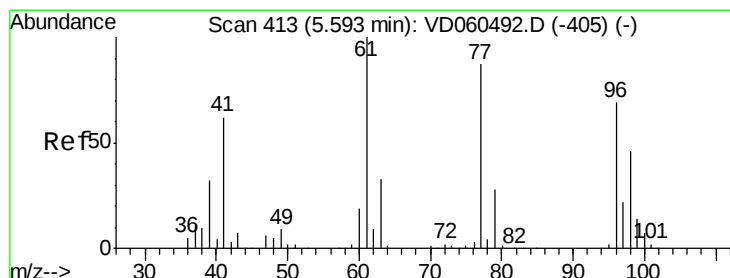
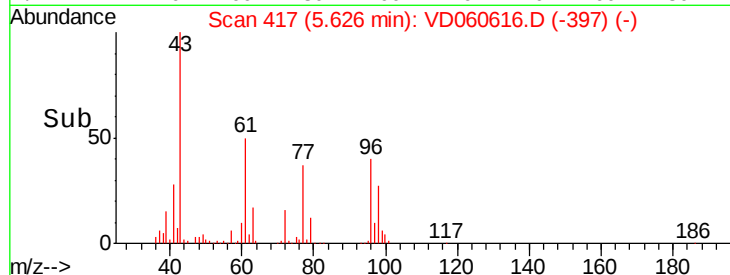
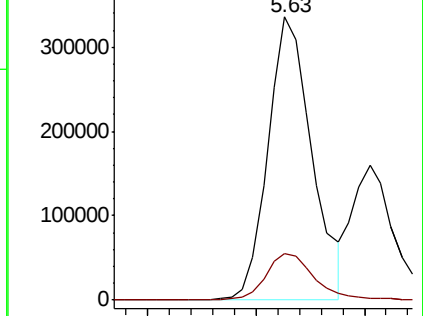
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 53.403 ug/l

RT: 5.60 min Scan# 414

Delta R.T. 0.00 min

Lab File: VD060616.D

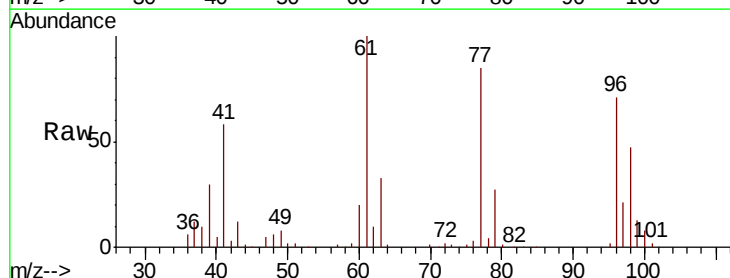
Acq: 18 Dec 2018 12:31

Tgt Ion: 77 Resp: 1135574

Ion Ratio Lower Upper

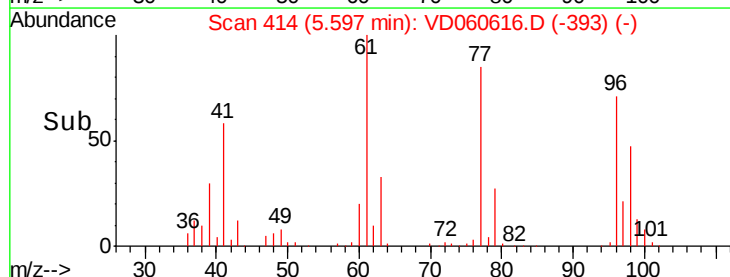
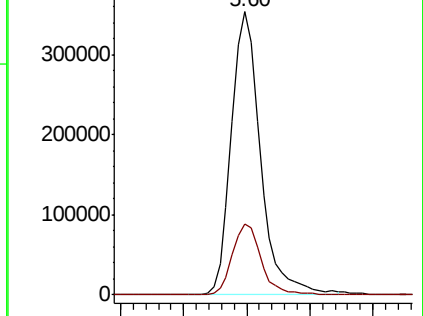
77 100

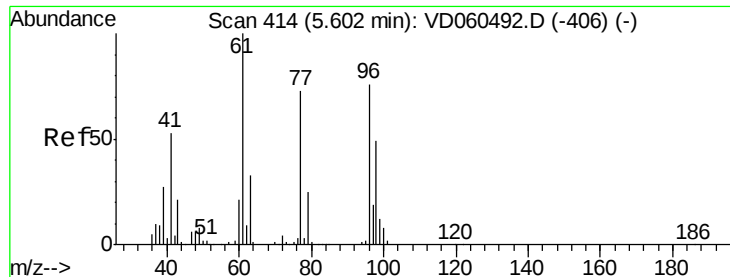
97 25.1 12.7 38.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

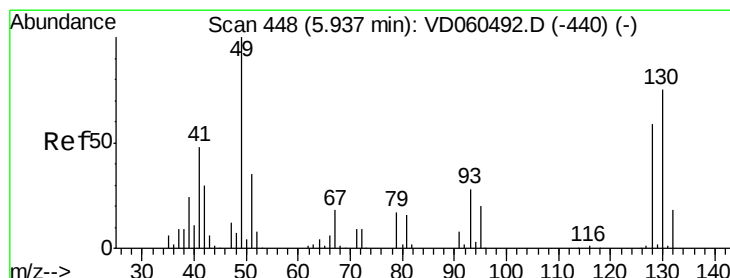
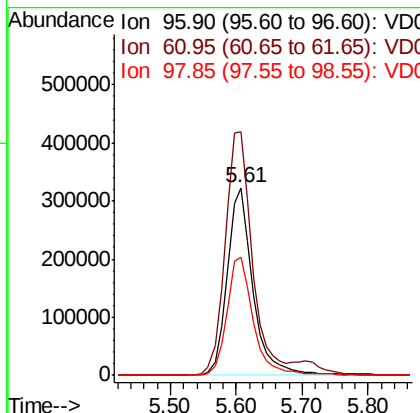
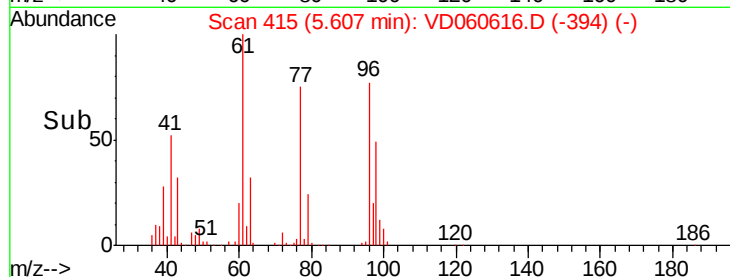
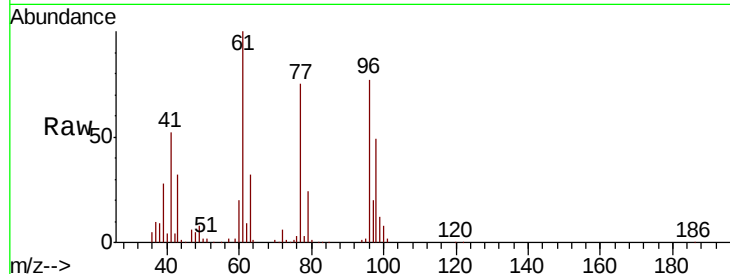
cis-1,2-Dichloroethene
Concen: 51.340 ug/l
RT: 5.61 min Scan# 415
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	883209		
61	129.9	0.0	263.6	
98	63.2	0.0	128.2	

Manual Integrations
APPROVED

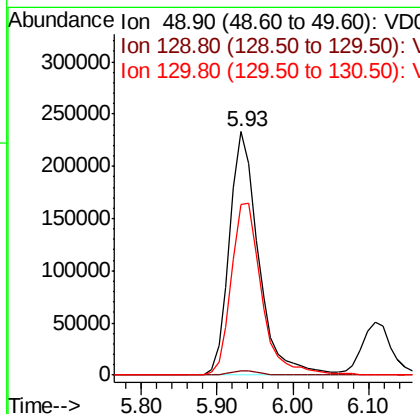
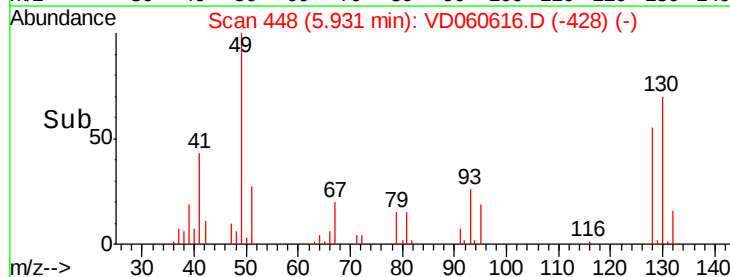
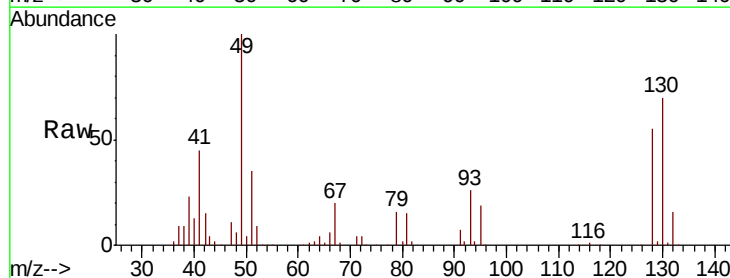
MMDadoda
12/19/2018 2:11:58 PM

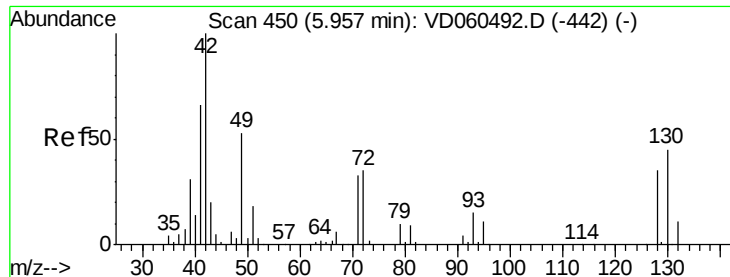


#28

Bromochloromethane
Concen: 50.813 ug/l
RT: 5.93 min Scan# 448
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	619601		
129	1.9	0.0	3.4	
130	70.0	59.8	89.6	





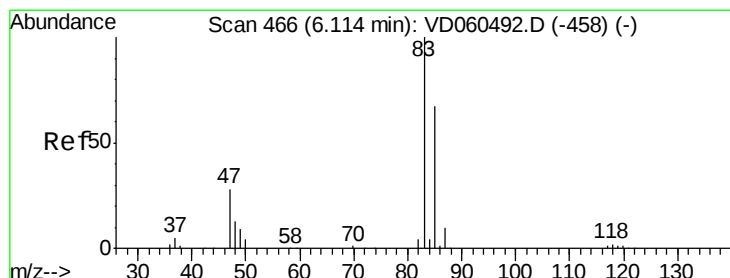
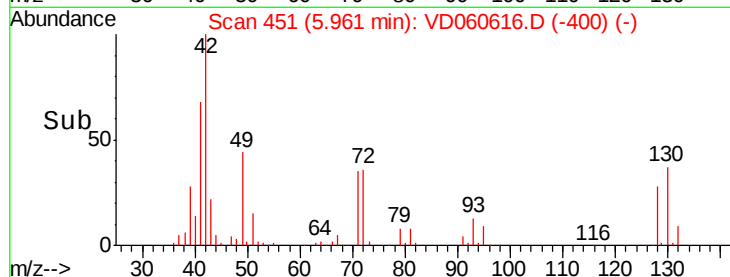
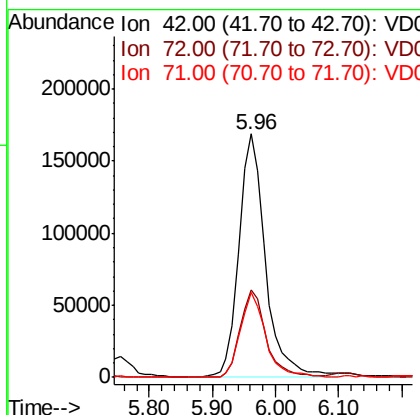
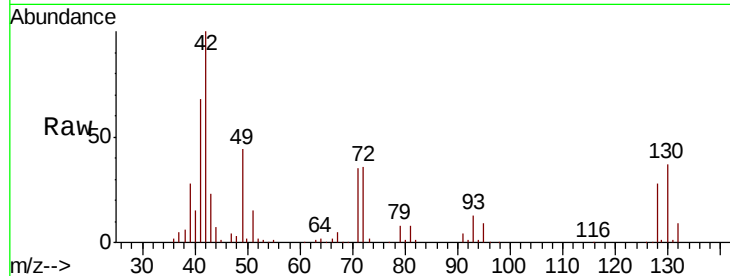
#29
Tetrahydrofuran
Concen: 247.357 ug/l
RT: 5.96 min Scan# 451
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.9	28.0	42.0
71	33.8	27.2	40.8

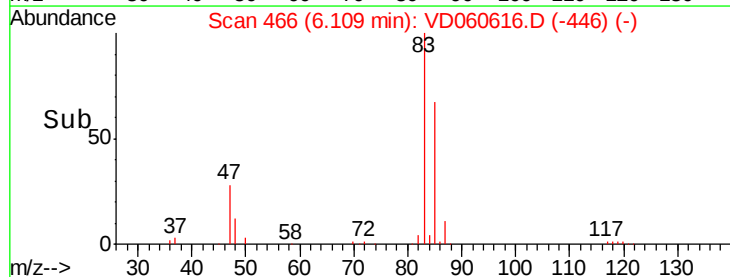
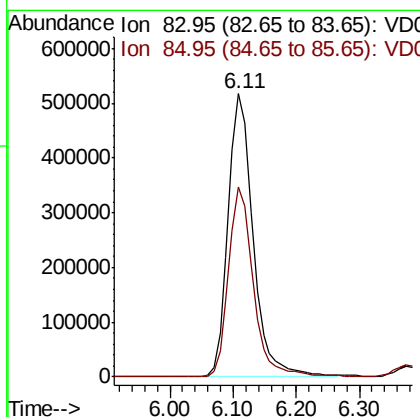
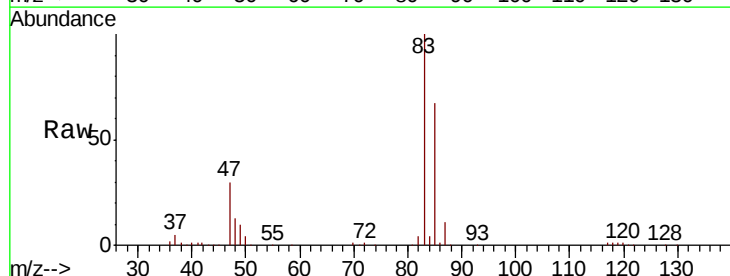
Manual Integrations
APPROVED

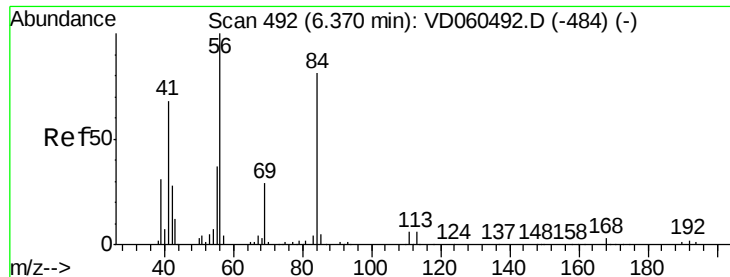
MMDadoda
12/19/2018 2:11:58 PM



#30
Chloroform
Concen: 51.192 ug/l
RT: 6.11 min Scan# 466
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.4	80.2





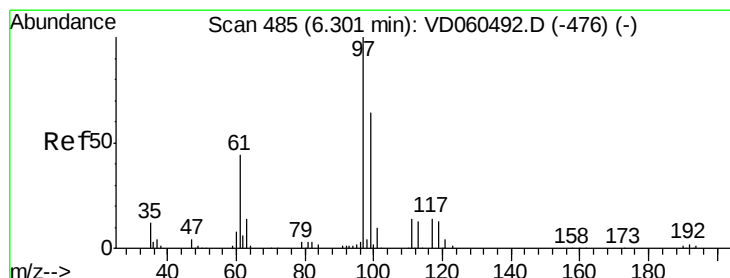
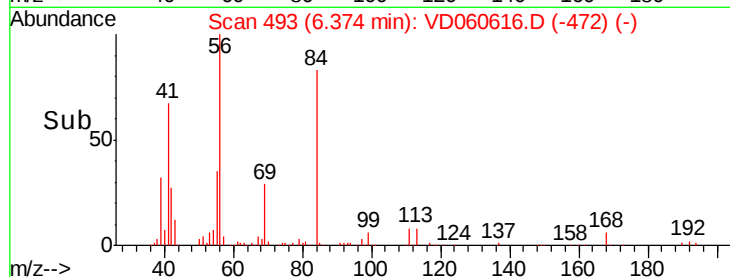
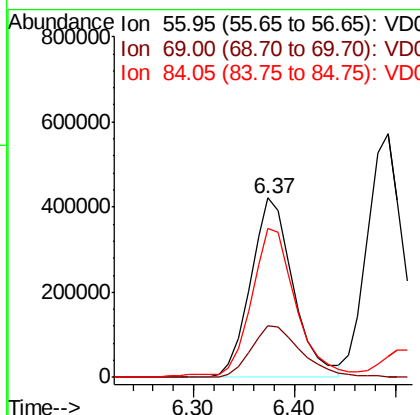
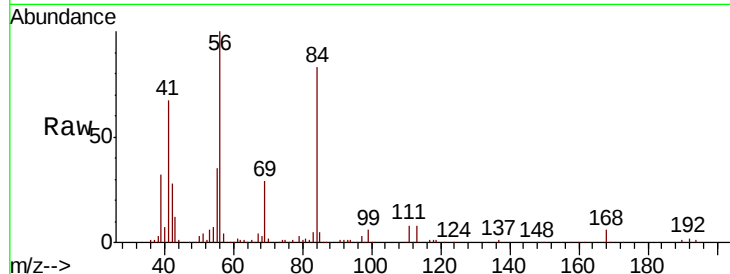
#31
Cyclohexane
Concen: 52.617 ug/l
RT: 6.37 min Scan# 493
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.7	22.8	34.2
84	83.1	65.1	97.7

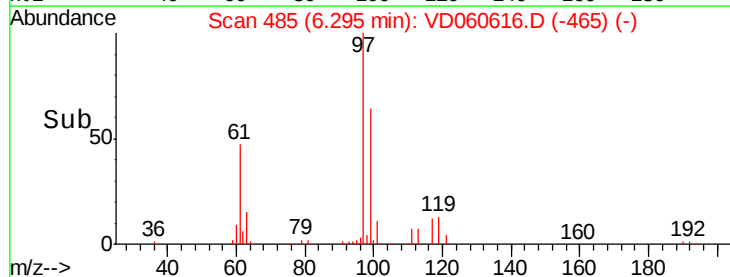
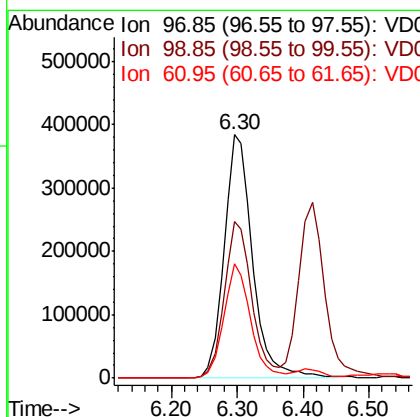
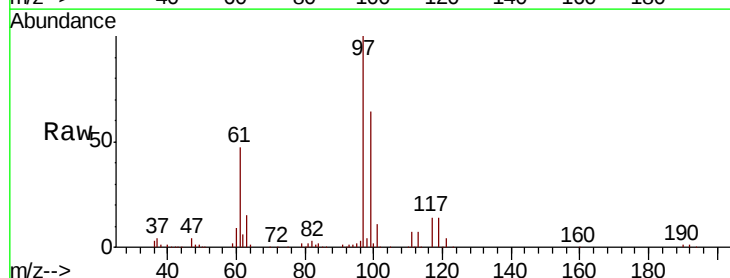
Manual Integrations
APPROVED

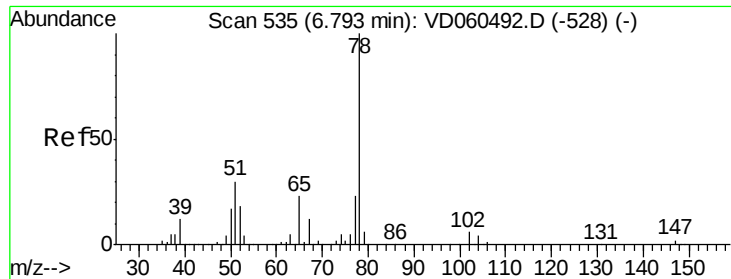
MMDadoda
12/19/2018 2:11:58 PM



#32
1,1,1-Trichloroethane
Concen: 50.737 ug/l
RT: 6.30 min Scan# 485
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.4
61	47.0	35.3	52.9





#33

1,2-Dichloroethane-d4

Concen: 50.737 ug/l

RT: 6.80 min Scan# 536

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 591054

Ion Ratio Lower Upper

65 100

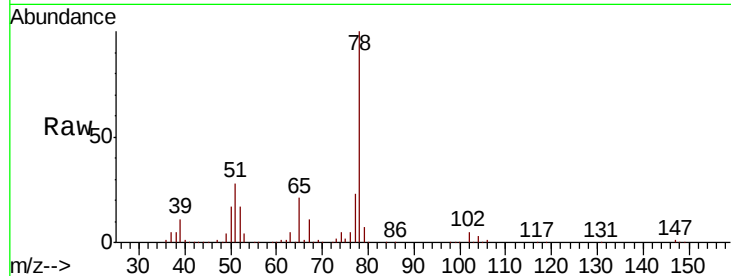
67 52.6 0.0 106.8

Manual Integrations

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MMDadoda

12/19/2018 2:11:58 PM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

250000

200000

150000

100000

50000

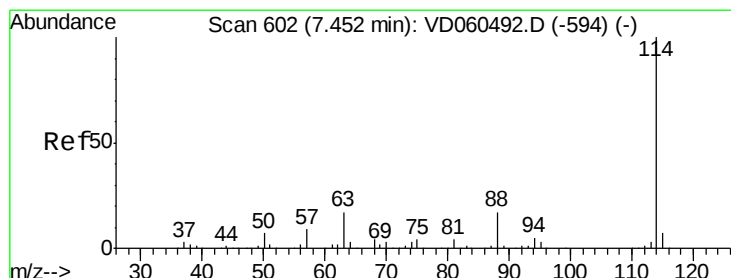
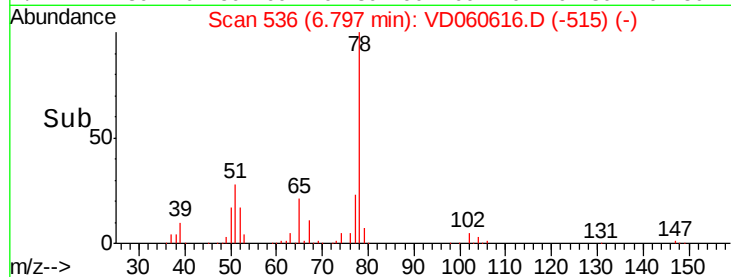
0

6.70

6.80

6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.45 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

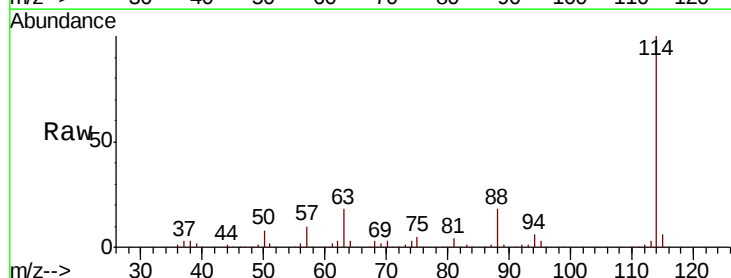
Tgt Ion: 114 Resp: 2119128

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.2

88 18.4 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

1200000

1000000

800000

600000

400000

200000

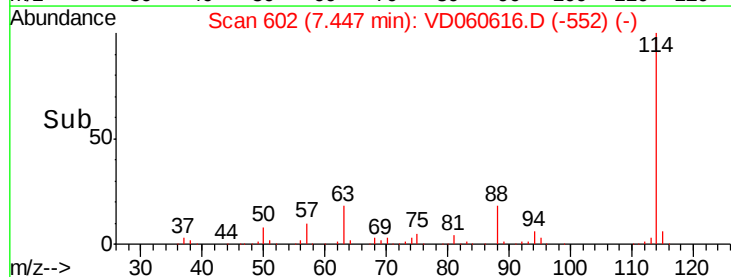
0

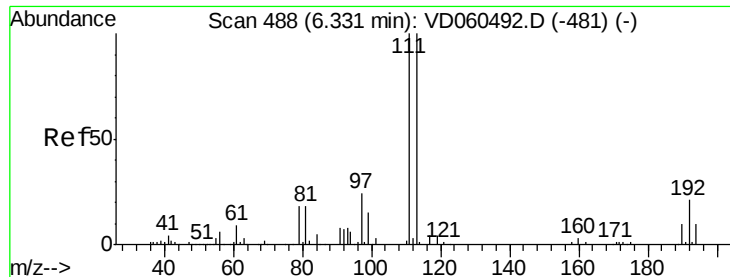
7.40

7.45

7.50

Time-->





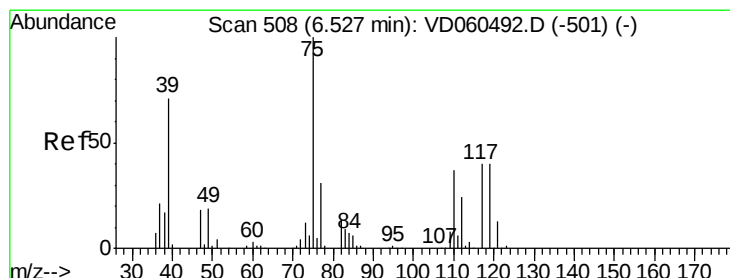
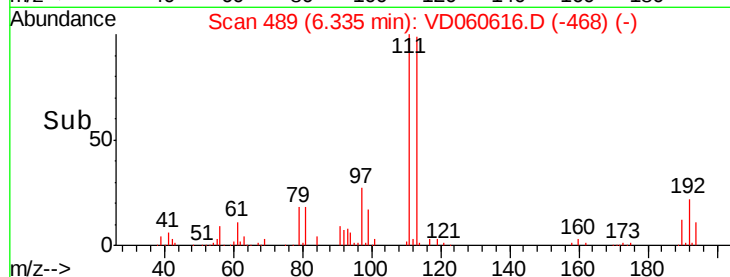
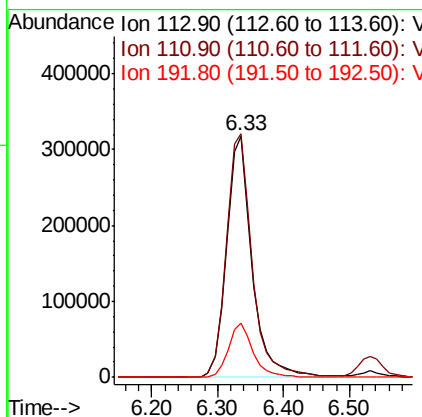
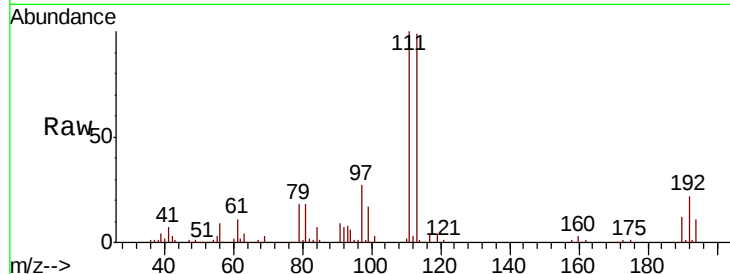
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.33 min Scan# 489
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	856918		
111	100.9	80.2	120.4	
192	22.2	16.6	24.8	

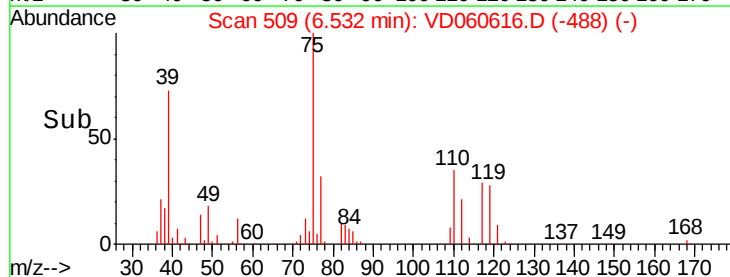
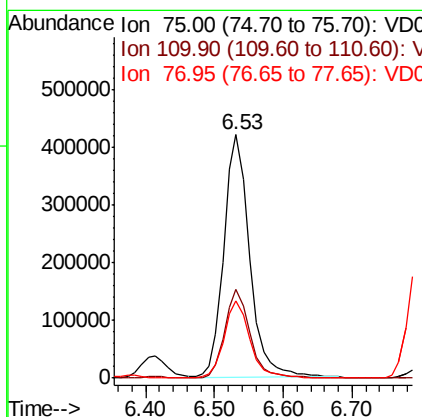
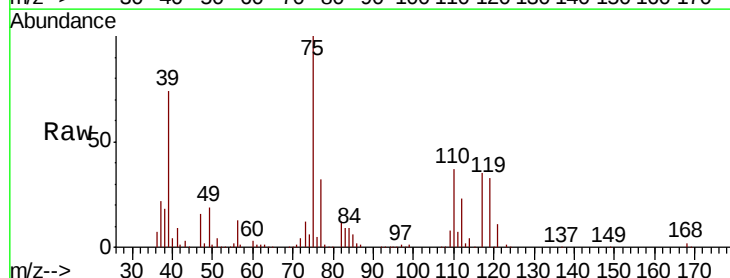
Manual Integrations
APPROVED

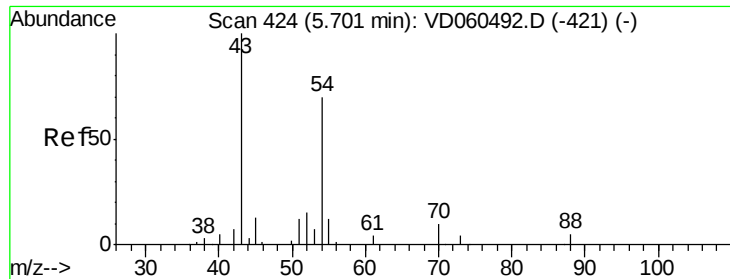
MMDadoda
12/19/2018 2:11:58 PM



#36
1,1-Dichloropropene
Concen: 52.562 ug/l
RT: 6.53 min Scan# 509
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1088775		
110	36.7	18.3	54.8	
77	31.6	24.6	37.0	





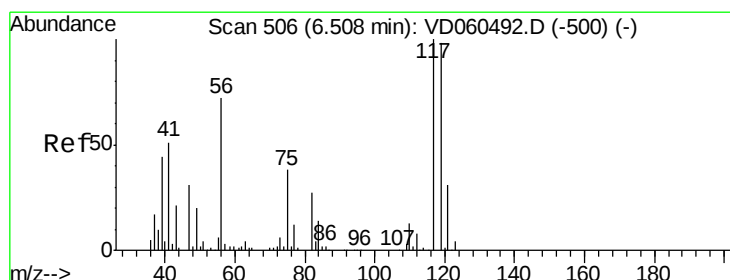
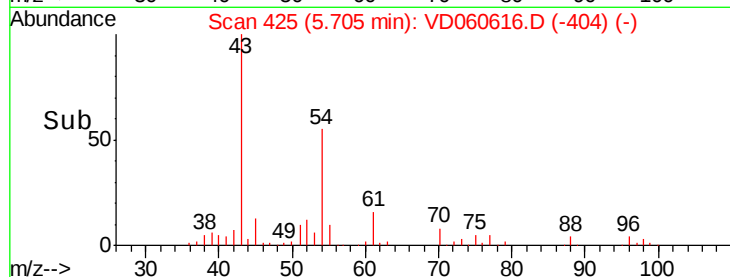
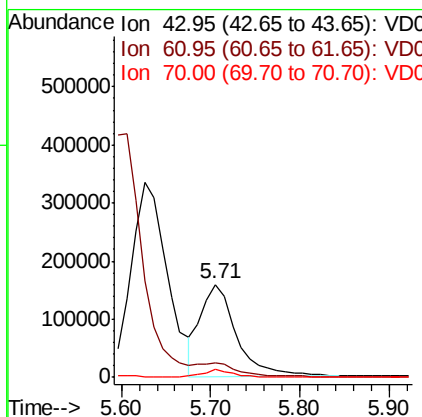
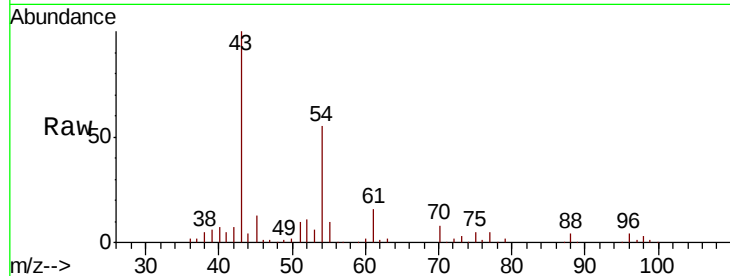
#37
Ethyl Acetate
Concen: 48.870 ug/l
RT: 5.71 min Scan# 425
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.1	12.4	18.6
70	8.1	5.4	8.0

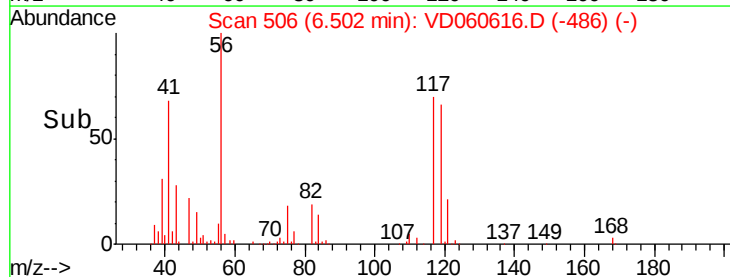
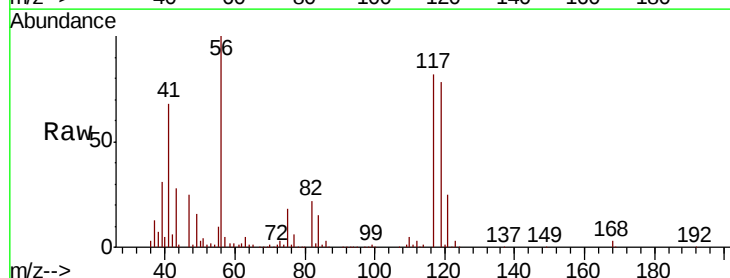
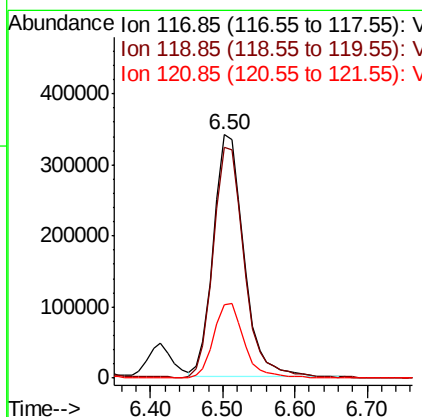
Manual Integrations
APPROVED

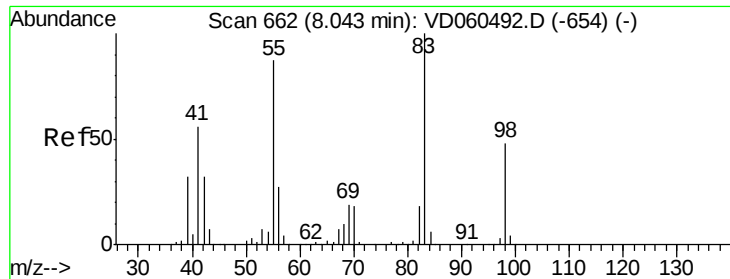
MMDadoda
12/19/2018 2:11:58 PM



#38
Carbon Tetrachloride
Concen: 53.733 ug/l
RT: 6.50 min Scan# 506
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.7	76.8	115.2
121	30.3	24.4	36.6





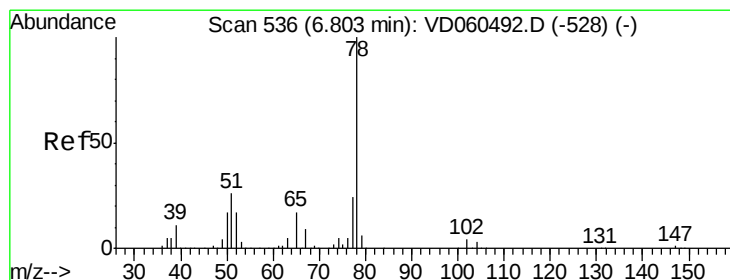
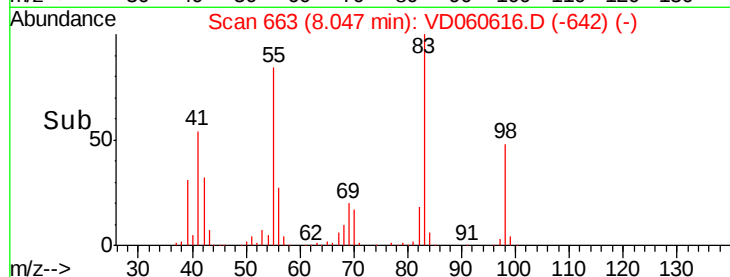
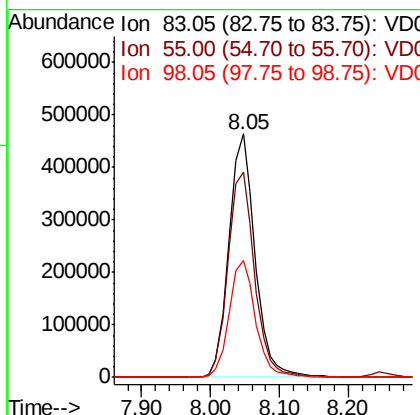
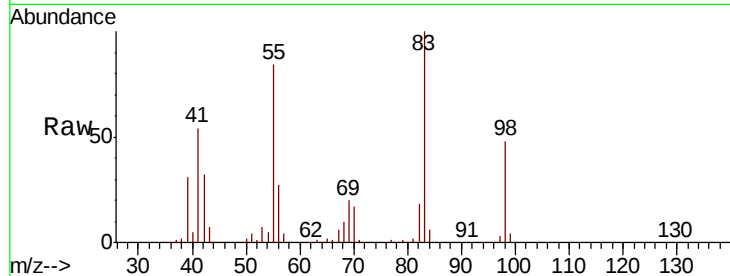
#39
Methvlcvclohexane
Concen: 51.836 ug/l
RT: 8.05 min Scan# 663
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 83 Resp: 1224031
Ion Ratio Lower Upper
83 100
55 84.1 69.8 104.8
98 48.2 38.4 57.6

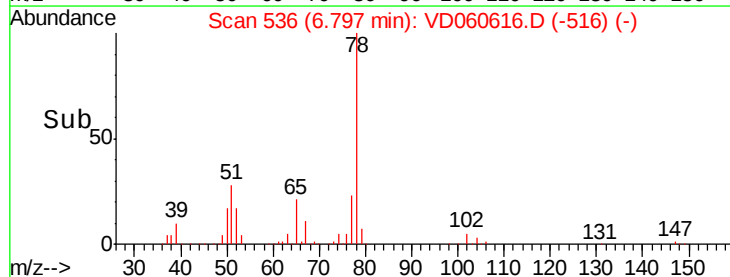
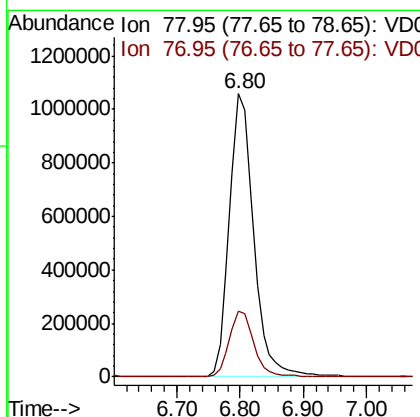
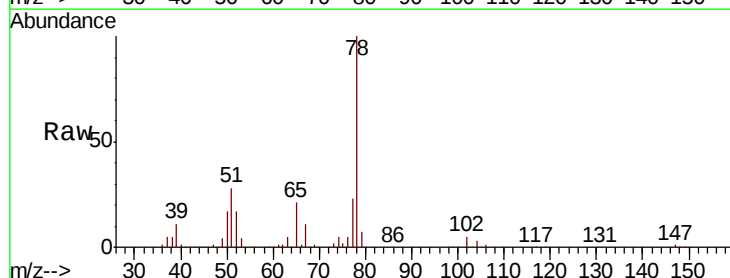
Manual Integrations
APPROVED

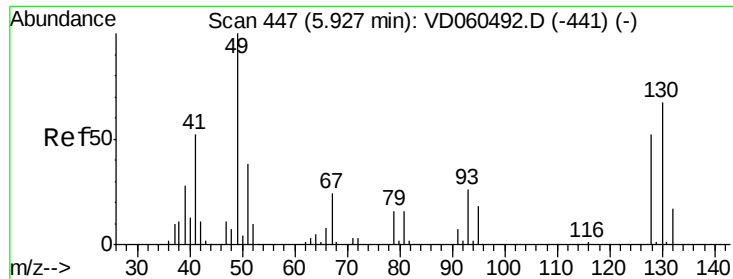
MMDadoda
12/19/2018 2:11:58 PM



#40
Benzene
Concen: 53.519 ug/l
RT: 6.80 min Scan# 536
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 78 Resp: 2833234
Ion Ratio Lower Upper
78 100
77 23.2 18.9 28.3





#41

Methacrylonitrile

Concen: 53.649 ug/l m

RT: 5.93 min Scan# 448

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 259803
Ion Ratio Lower Upper

41 100

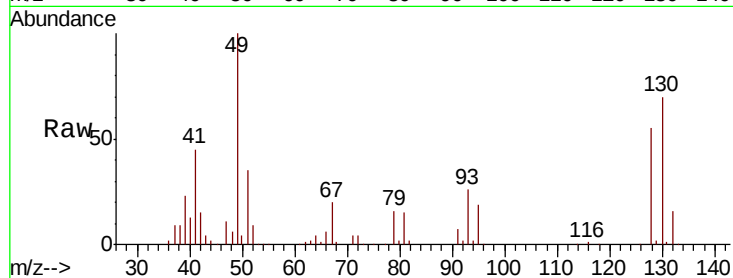
39 51.0 42.6 63.8

67 43.2 36.2 54.4

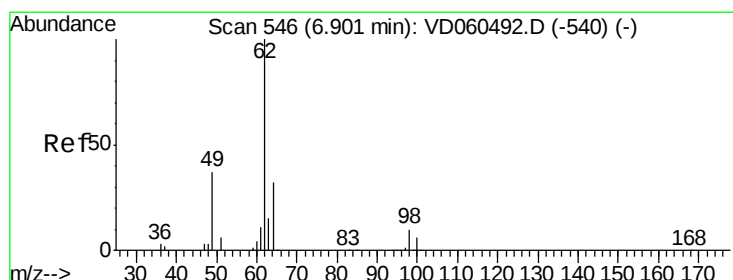
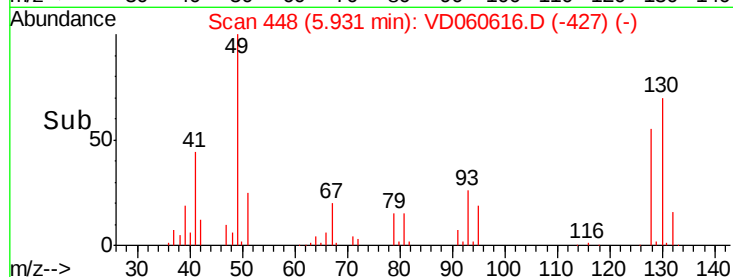
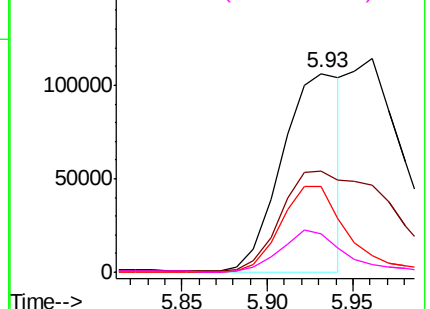
52 19.1 15.6 23.4

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Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 51.638 ug/l

RT: 6.91 min Scan# 547

Delta R.T. 0.00 min

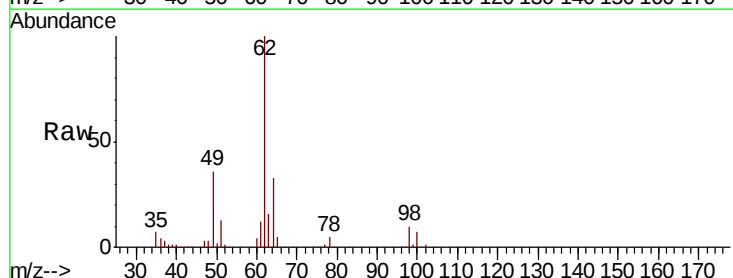
Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

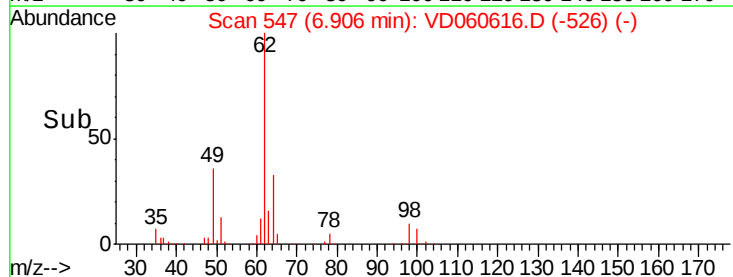
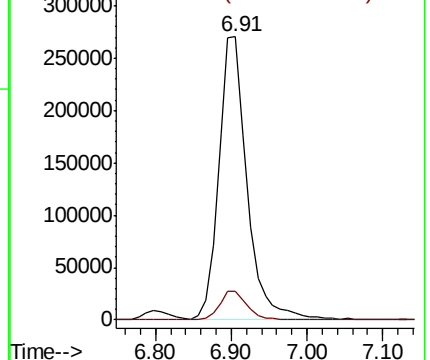
Tgt Ion: 62 Resp: 695048
Ion Ratio Lower Upper

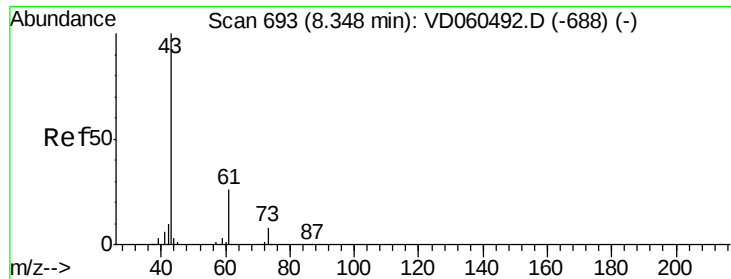
62 100

98 9.9 0.0 20.2



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 51.130 ug/l

RT: 8.35 min Scan# 694

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

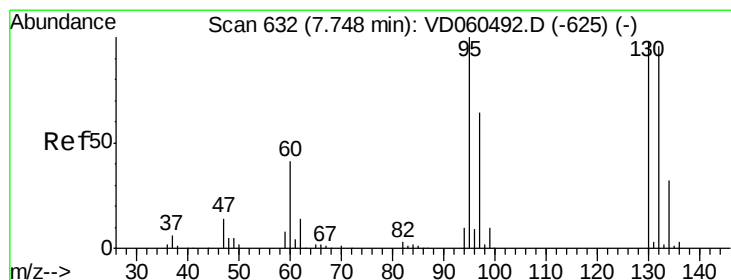
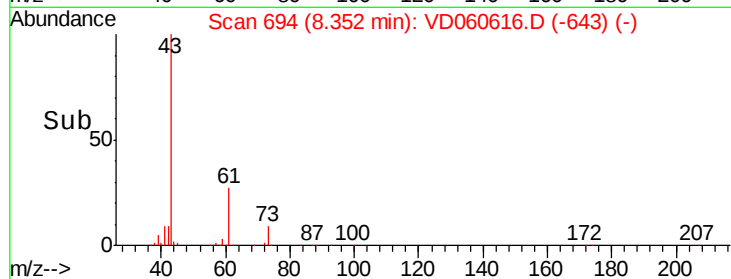
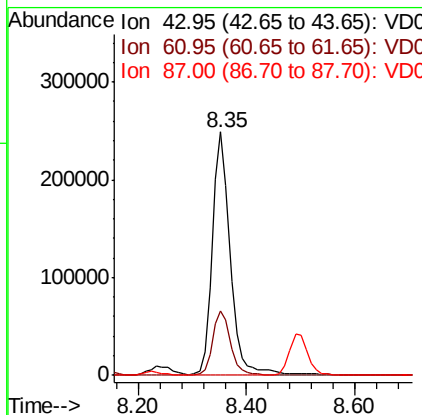
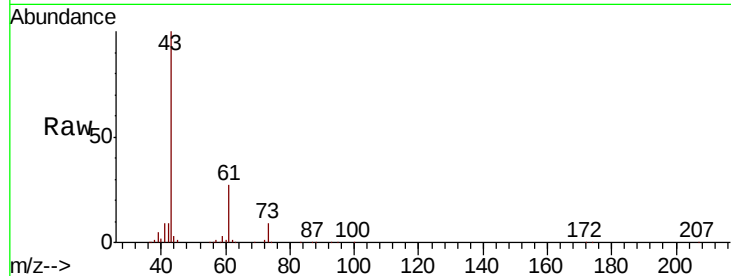
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	566999
Ion	Ratio	Lower	Upper
43	100		
61	26.6	21.0	31.4
87	0.3	0.2	0.2#

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#44

Trichloroethene

Concen: 53.787 ug/l

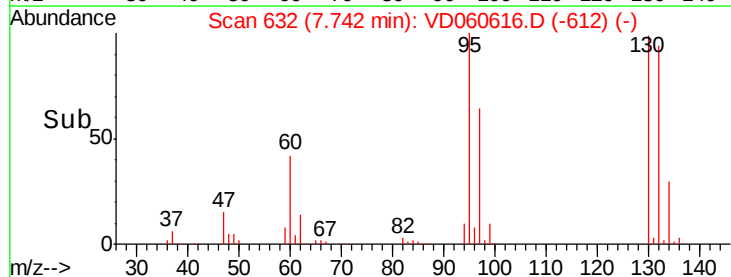
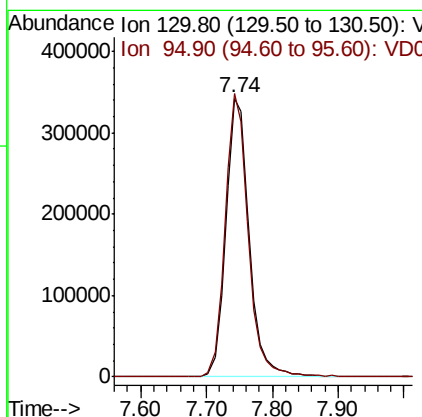
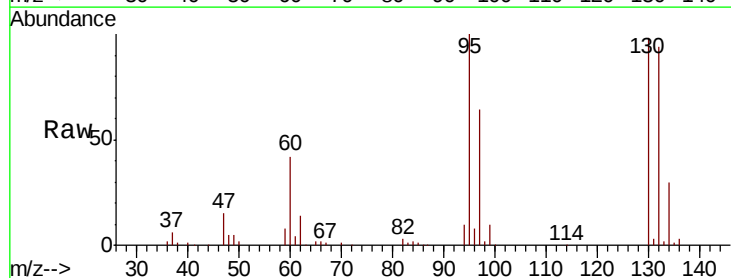
RT: 7.74 min Scan# 632

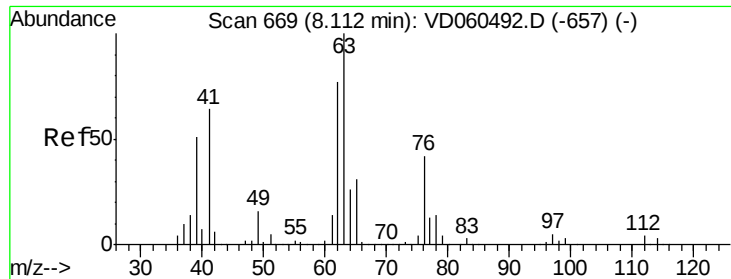
Delta R.T. -0.01 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Tgt Ion:	130	Resp:	850962
Ion	Ratio	Lower	Upper
130	100		
95	101.5	0.0	203.8





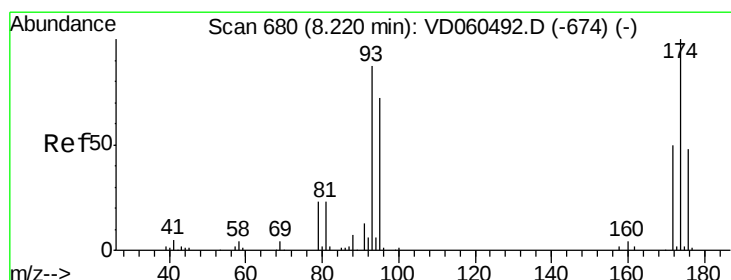
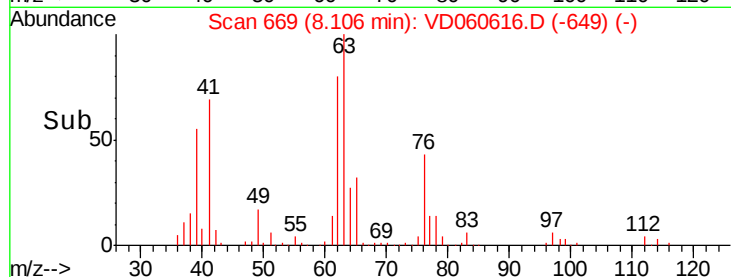
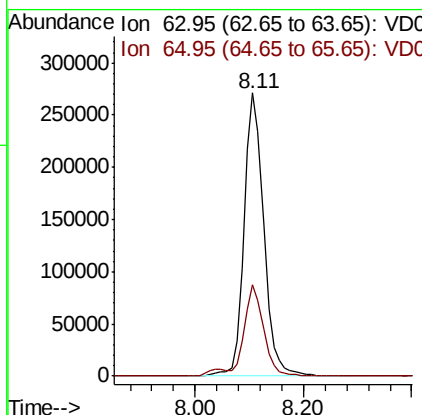
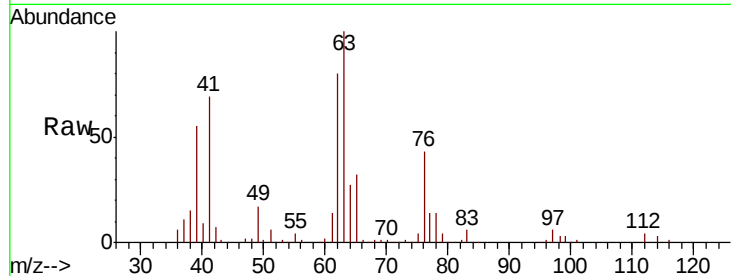
#45
 1,2-Dichloropropane
 Concen: 52.408 ug/l
 RT: 8.11 min Scan# 669
 Delta R.T. -0.01 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 686182
 Ion Ratio Lower Upper
 63 100
 65 32.2 24.6 37.0

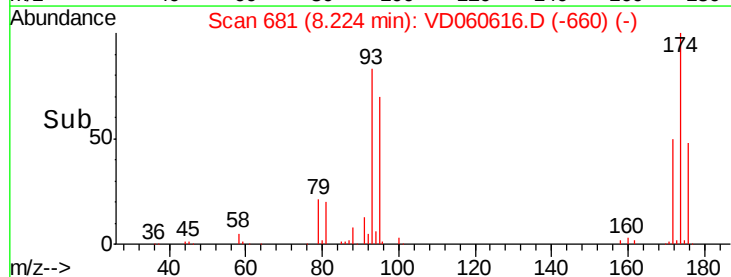
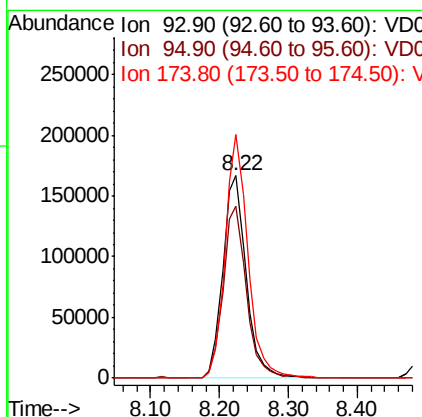
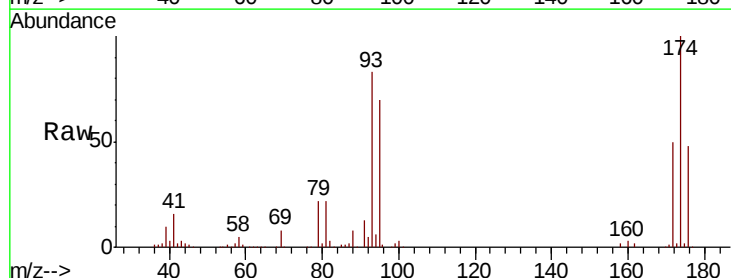
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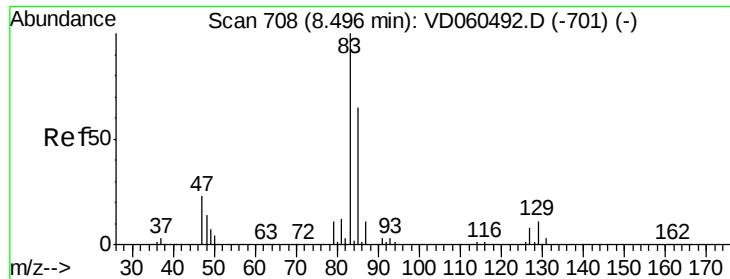
MMDadoda
 12/19/2018 2:11:58 PM



#46
 Dibromomethane
 Concen: 51.784 ug/l
 RT: 8.22 min Scan# 681
 Delta R.T. 0.00 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Tgt Ion: 93 Resp: 391732
 Ion Ratio Lower Upper
 93 100
 95 84.7 65.6 98.4
 174 120.4 91.7 137.5





#47

Bromodichloromethane

Concen: 54.105 ug/l

RT: 8.49 min Scan# 708

Delta R.T. -0.01 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

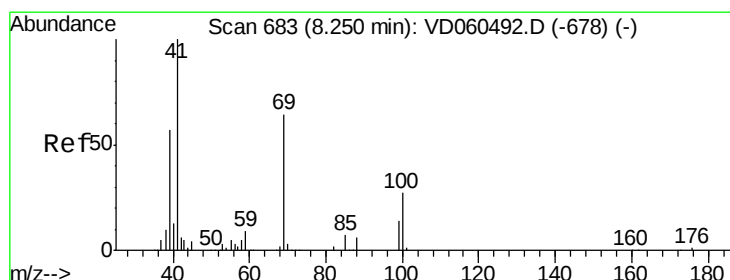
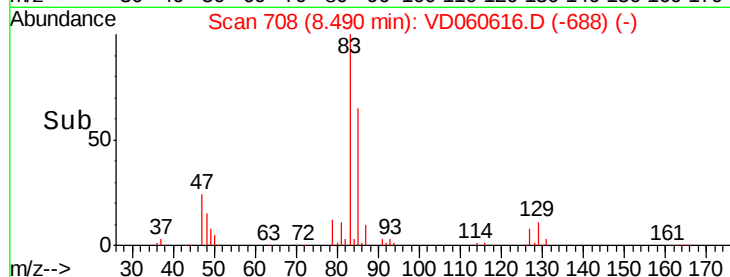
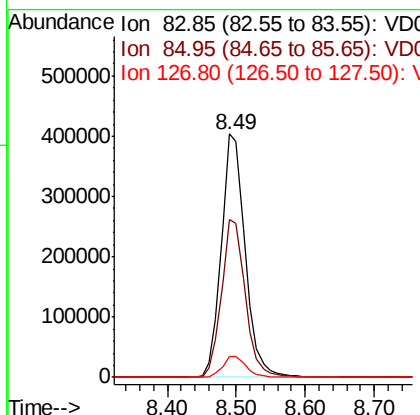
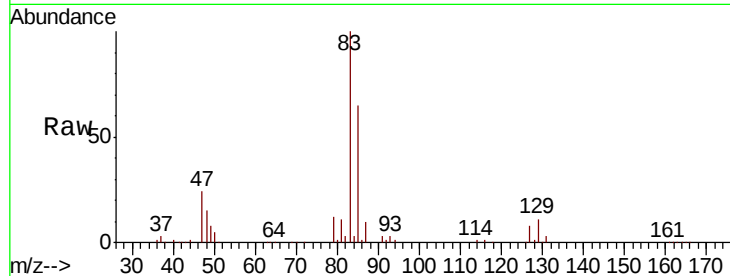
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	971141
Ion Ratio	Lower	Upper	
83	100		
85	64.7	52.2	78.4
127	8.3	6.7	10.1

Manual Integrations
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12/19/2018 2:11:58 PM



#48

Methyl methacrylate

Concen: 54.139 ug/l

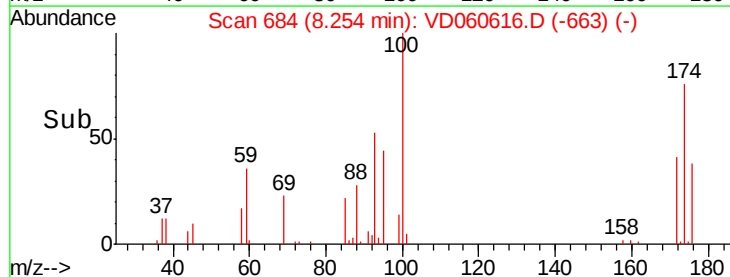
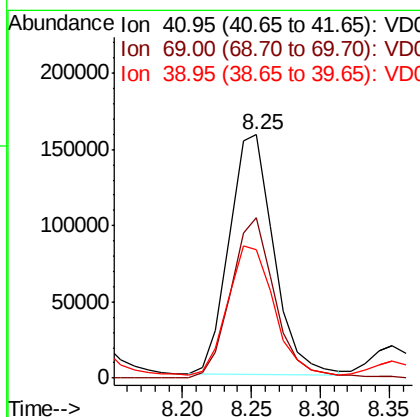
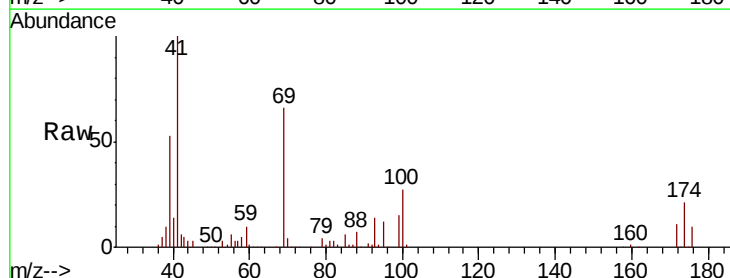
RT: 8.25 min Scan# 684

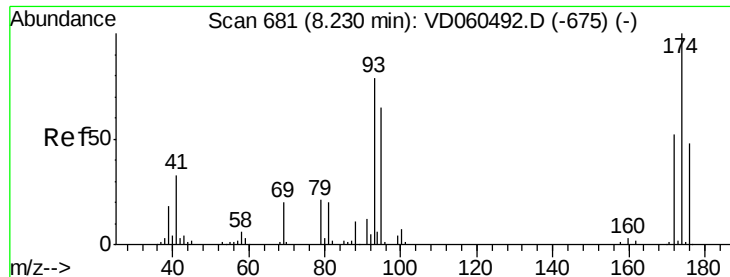
Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Tgt Ion:	41	Resp:	355231
Ion Ratio	Lower	Upper	
41	100		
69	65.7	50.2	75.4
39	52.8	46.1	69.1





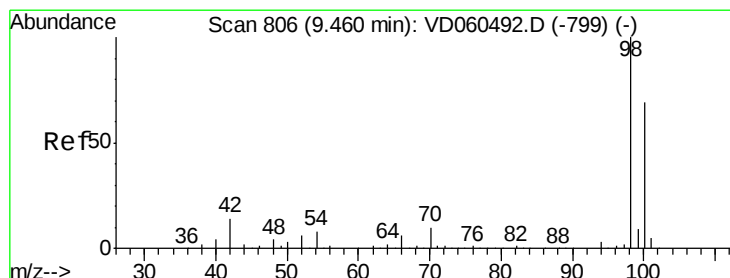
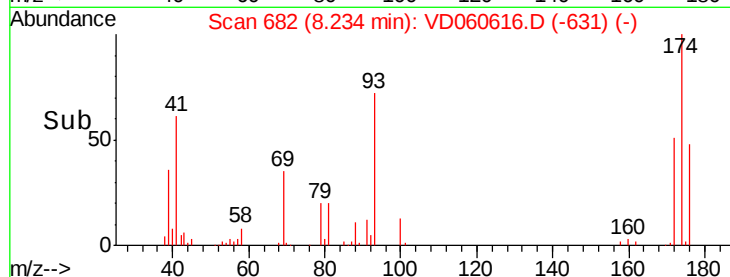
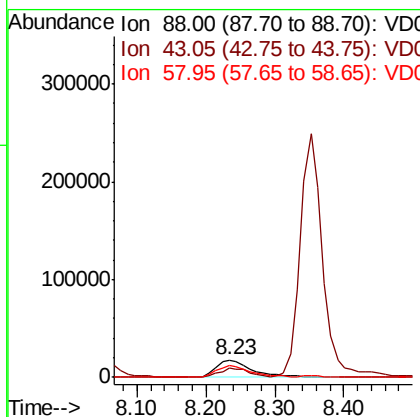
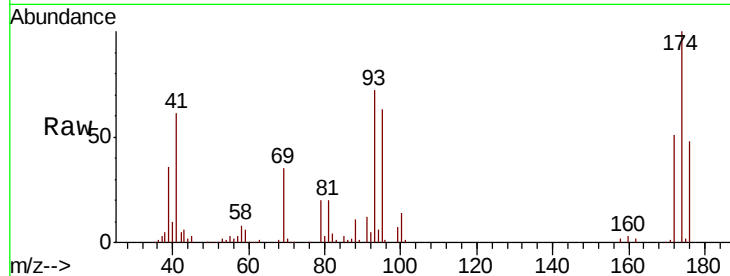
#49
1,4-Dioxane
Concen: 1075.556 ug/l
RT: 8.23 min Scan# 682
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 88 Resp: 63962
Ion Ratio Lower Upper
88 100
43 52.0 32.9 49.3#
58 67.9 47.7 71.5

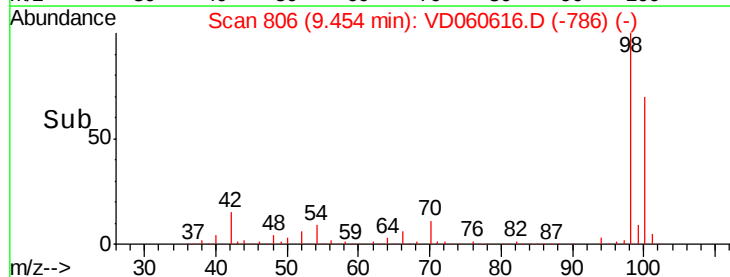
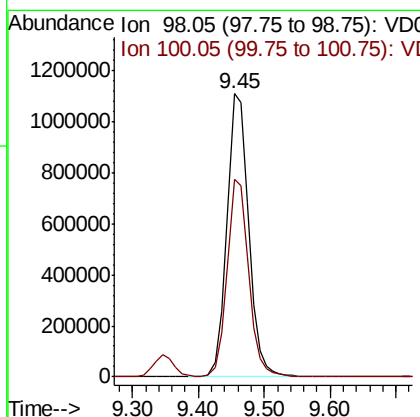
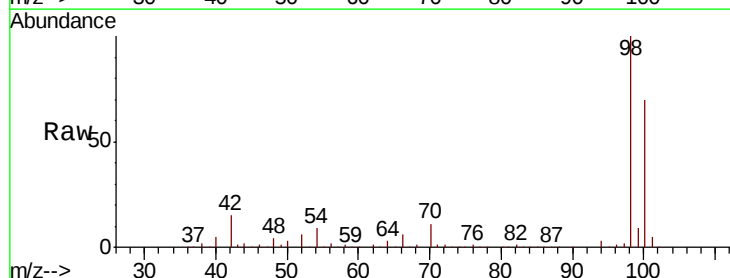
Manual Integrations
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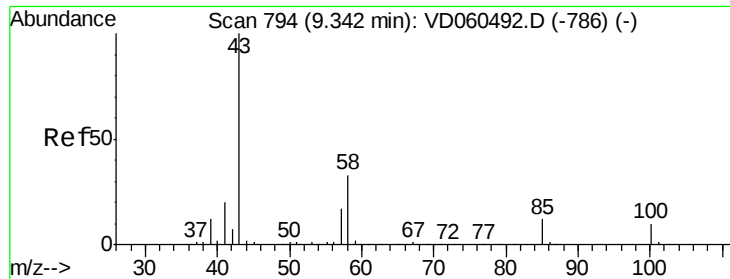
MMDadoda
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#50
Toluene-d8
Concen: 1075.556 ug/l
RT: 9.45 min Scan# 806
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 98 Resp: 2586472
Ion Ratio Lower Upper
98 100
100 69.8 55.7 83.5





#51

4-Methyl-2-Pentanone

Concen: 266.362 ug/l

RT: 9.35 min Scan# 795

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1837379

Ion Ratio Lower Upper

43 100

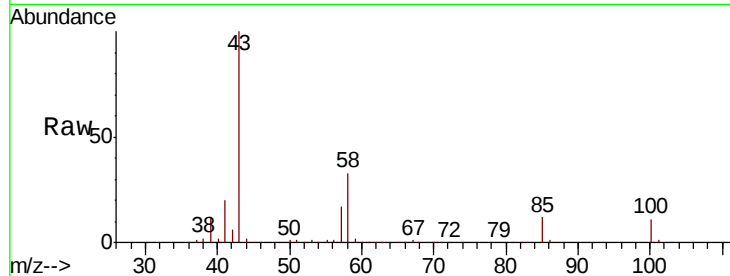
58 32.6 26.3 39.5

Manual Integrations

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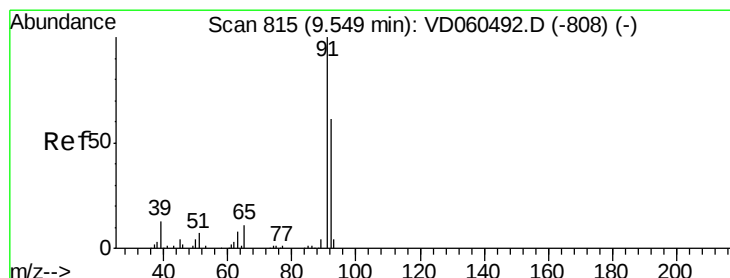
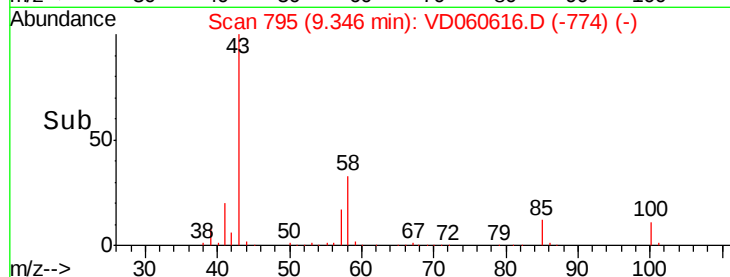
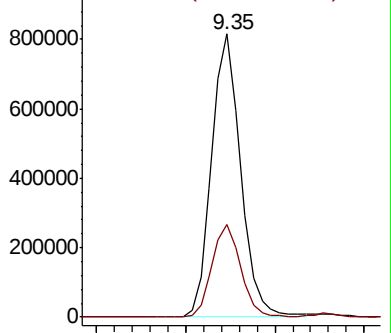
MMDadoda

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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: 52.135 ug/l

RT: 9.55 min Scan# 816

Delta R.T. 0.00 min

Lab File: VD060616.D

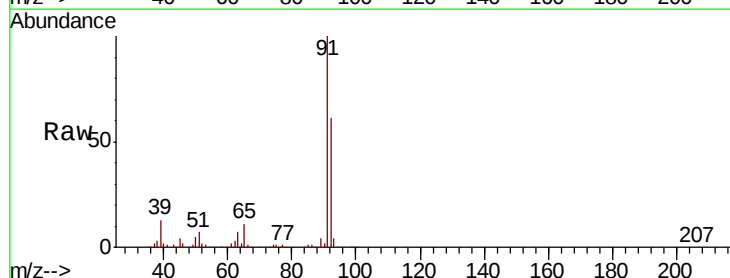
Acq: 18 Dec 2018 12:31

Tgt Ion: 92 Resp: 1725027

Ion Ratio Lower Upper

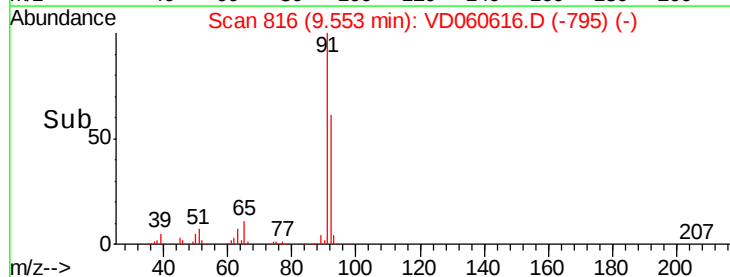
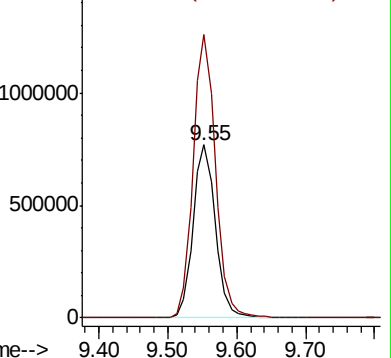
92 100

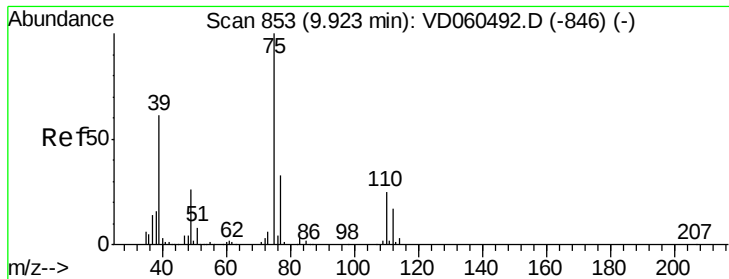
91 163.7 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





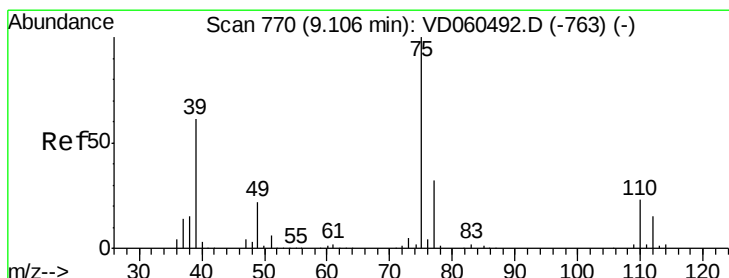
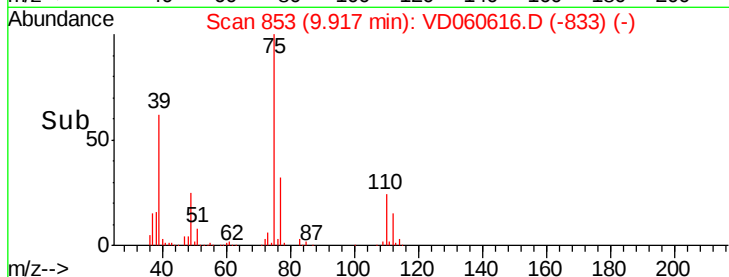
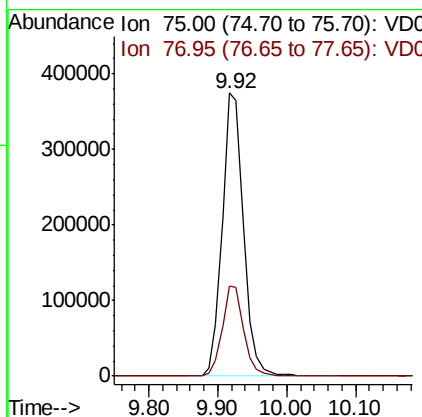
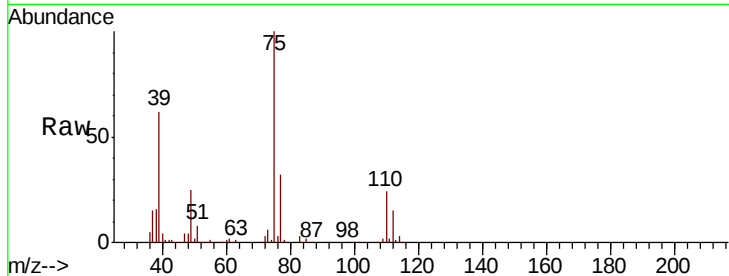
#53
t-1,3-Dichloropropene
Concen: 54.132 ug/l
RT: 9.92 min Scan# 853
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 798373
Ion Ratio Lower Upper
75 100
77 31.7 26.2 39.2

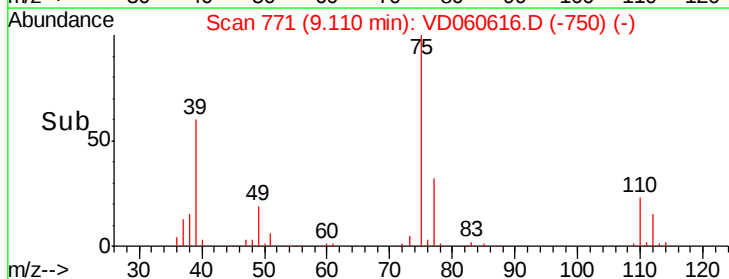
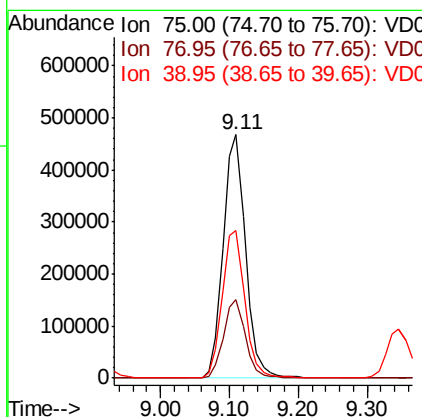
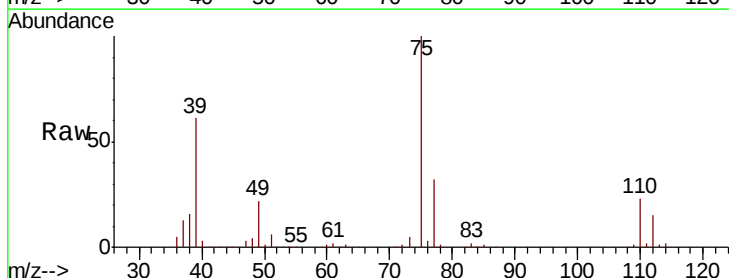
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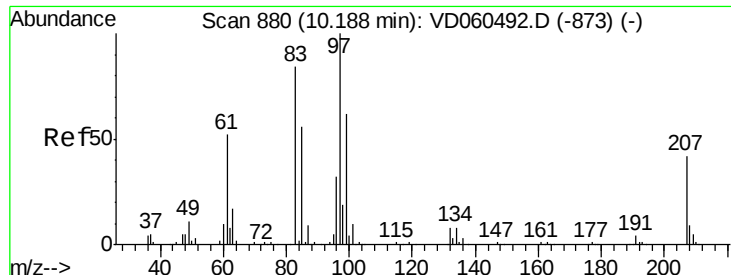
MMDadoda
12/19/2018 2:11:58 PM



#54
cis-1,3-Dichloropropene
Concen: 54.236 ug/l
RT: 9.11 min Scan# 771
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 75 Resp: 1050964
Ion Ratio Lower Upper
75 100
77 32.4 25.6 38.4
39 60.7 48.6 73.0





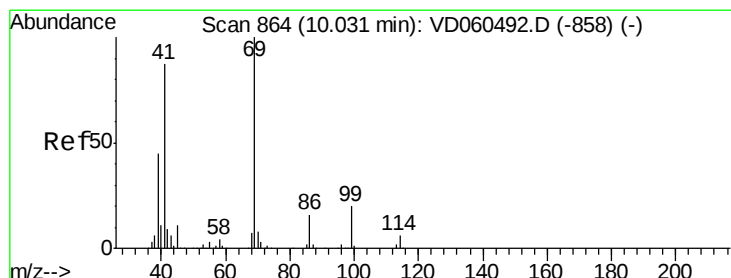
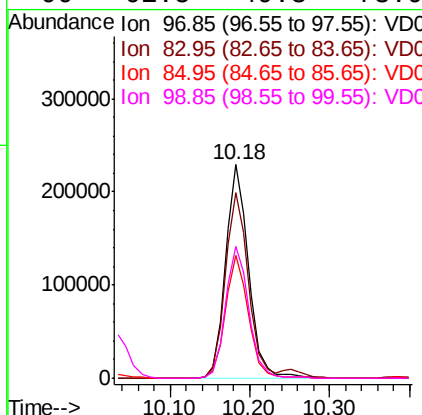
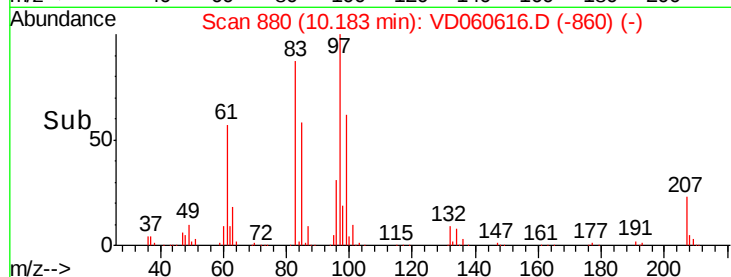
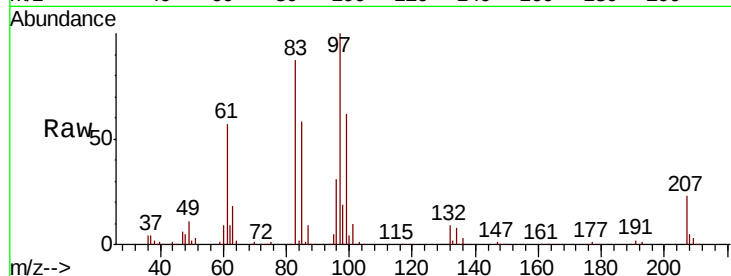
#55
 1,1,2-Trichloroethane
 Concen: 50.691 ug/l
 RT: 10.18 min Scan# 880
 Delta R.T. -0.01 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	467088
Ion	Ratio	Lower	Upper
97	100		
83	86.6	67.2	100.8
85	57.7	44.5	66.7
99	61.5	49.3	73.9

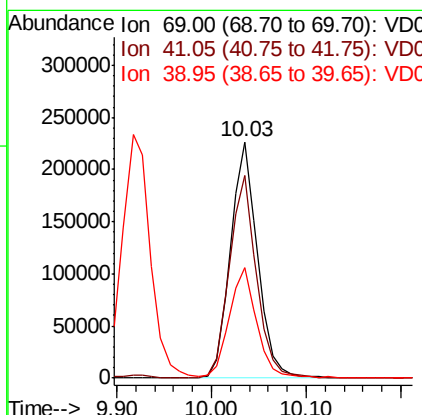
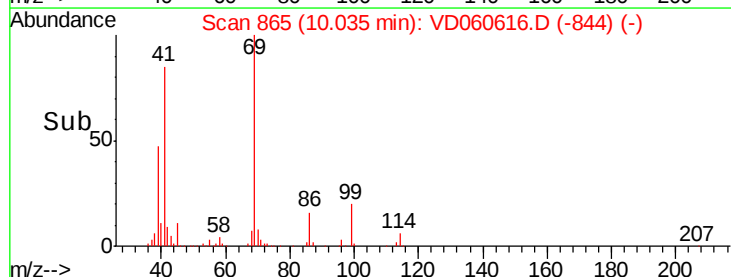
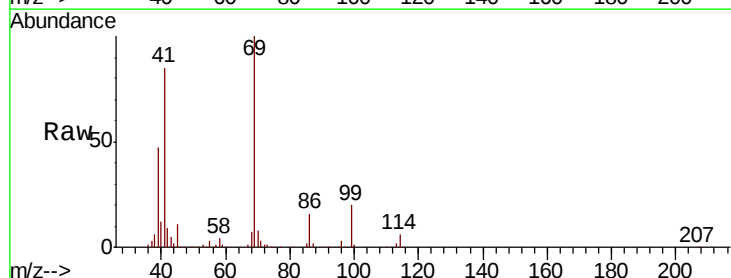
Manual Integrations
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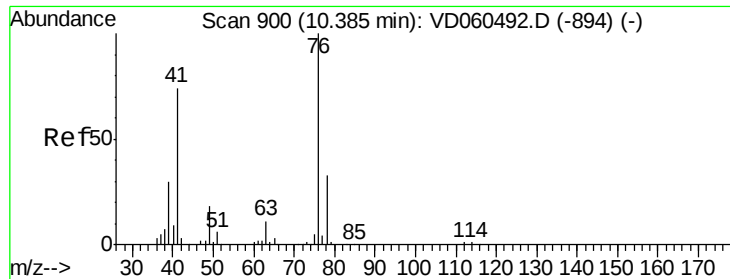
MMDadoda
 12/19/2018 2:11:58 PM



#56
 Ethyl methacrylate
 Concen: 53.656 ug/l
 RT: 10.03 min Scan# 865
 Delta R.T. 0.00 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Tgt Ion:	69	Resp:	447449
Ion	Ratio	Lower	Upper
69	100		
41	85.5	69.8	104.8
39	46.5	37.5	56.3





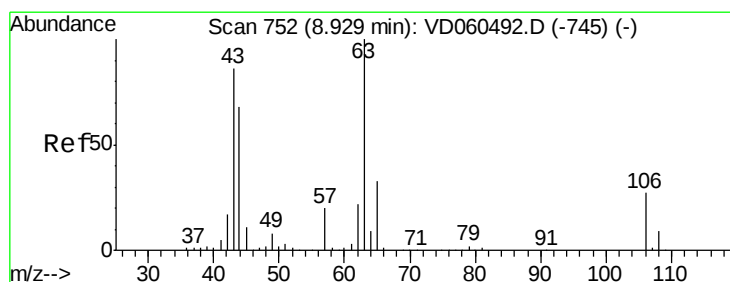
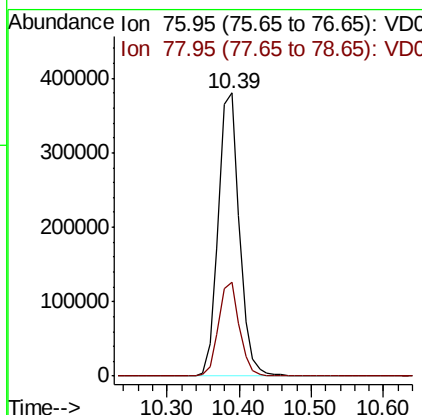
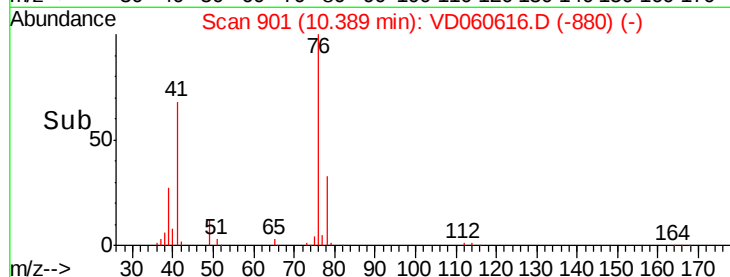
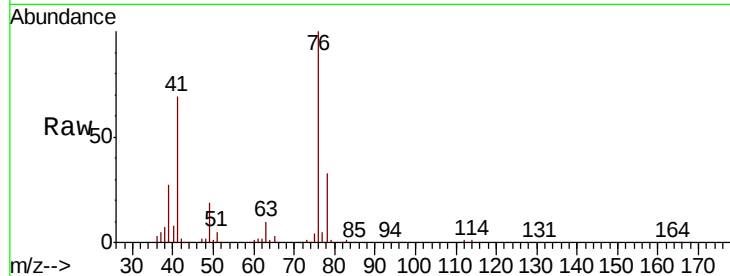
#57
 1,3-Dichloropropane
 Concen: 53.830 ug/l
 RT: 10.39 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 766768
 Ion Ratio Lower Upper
 76 100
 78 33.4 26.1 39.1

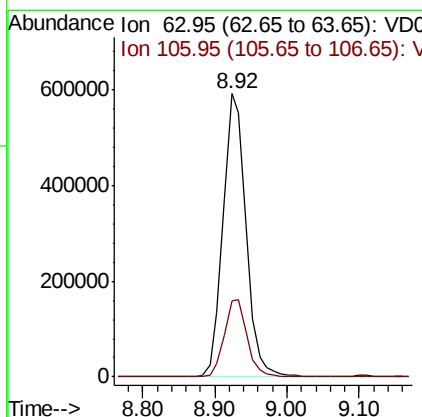
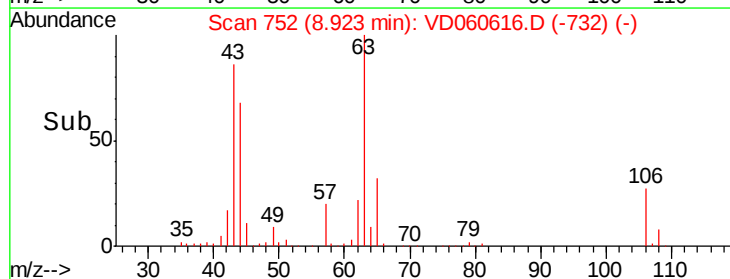
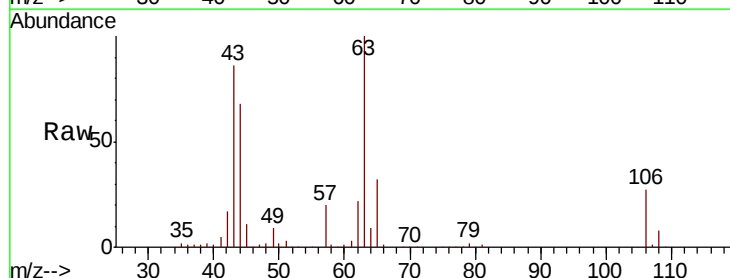
Manual Integrations
 APPROVED

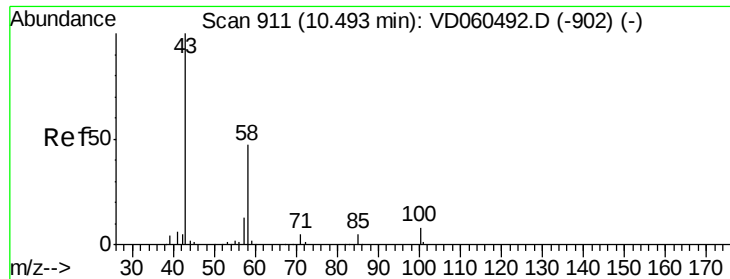
MMDadoda
 12/19/2018 2:11:58 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 262.149 ug/l
 RT: 8.92 min Scan# 752
 Delta R.T. -0.01 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Tgt Ion: 63 Resp: 1308054
 Ion Ratio Lower Upper
 63 100
 106 26.6 21.6 32.4





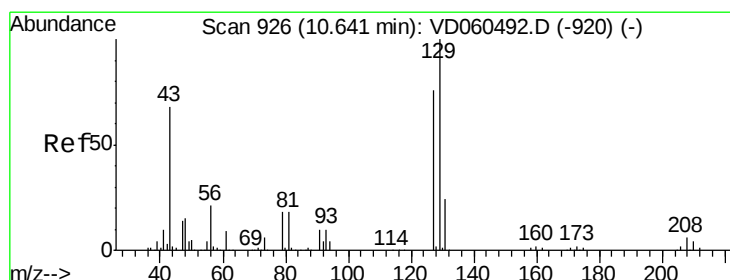
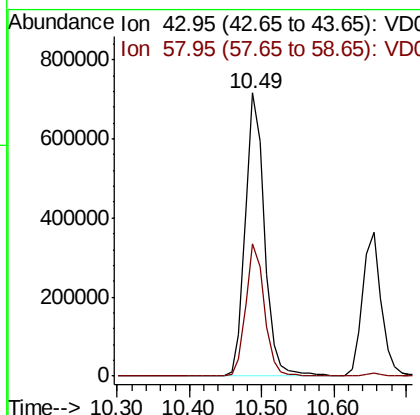
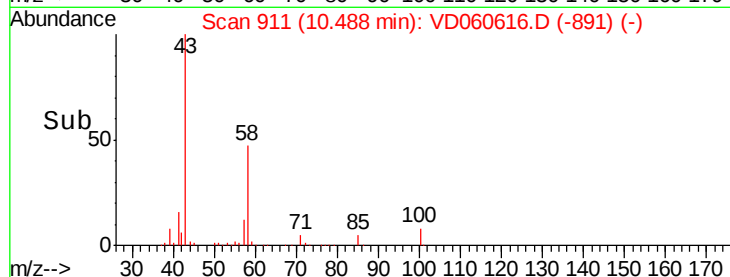
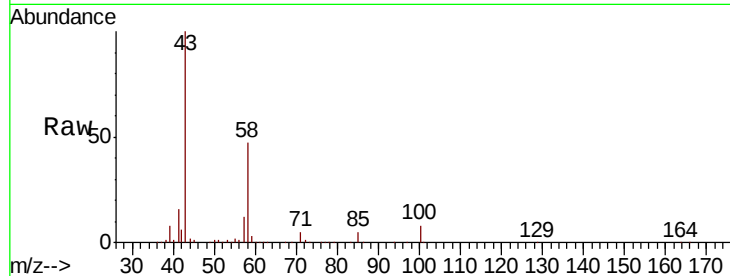
#59
2-Hexanone
Concen: 277.097 ug/l
RT: 10.49 min Scan# 911
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1336044
Ion Ratio Lower Upper
43 100
58 46.7 23.4 70.2

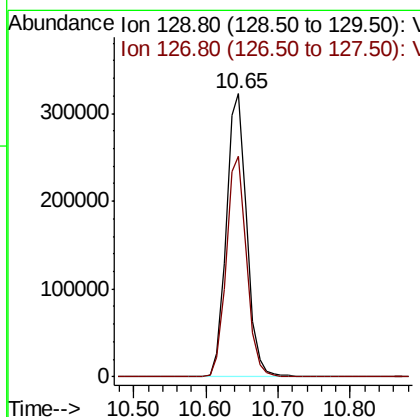
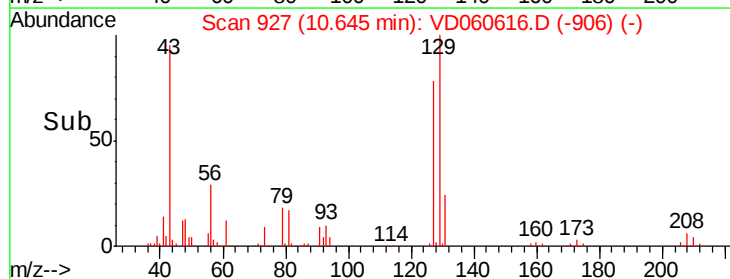
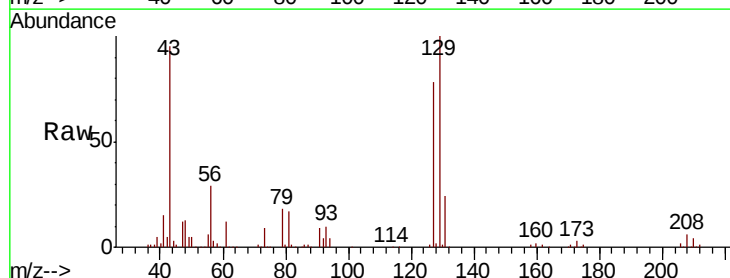
Manual Integrations
APPROVED

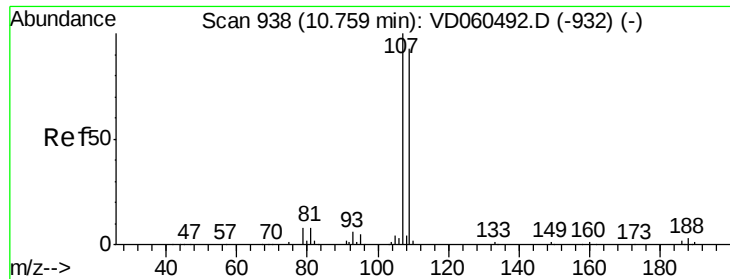
MMDadoda
12/19/2018 2:11:58 PM



#60
Dibromochloromethane
Concen: 54.725 ug/l
RT: 10.65 min Scan# 927
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 129 Resp: 630454
Ion Ratio Lower Upper
129 100
127 77.8 38.1 114.3





#61

1,2-Dibromoethane

Concen: 52.710 ug/l

RT: 10.76 min Scan# 939

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 494967

Ion Ratio Lower Upper

107 100

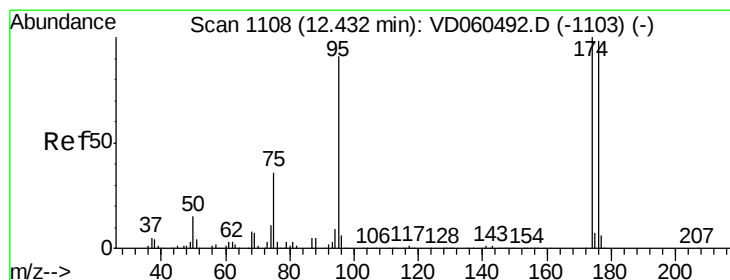
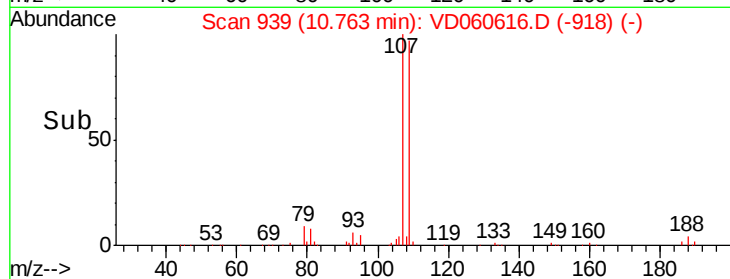
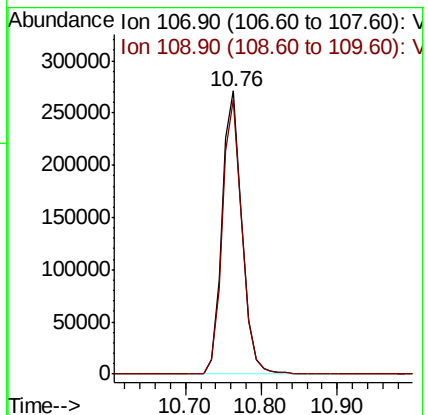
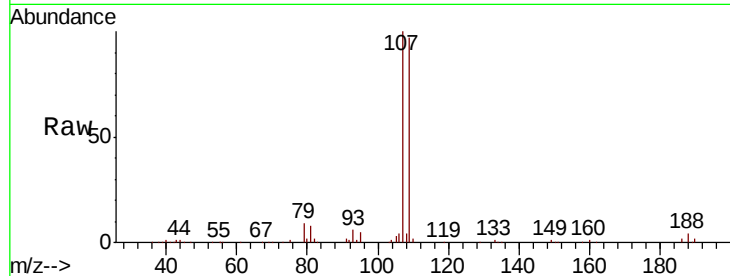
109 96.8 74.7 112.1

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 52.710 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

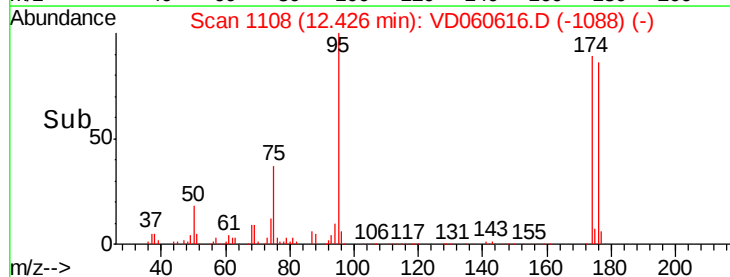
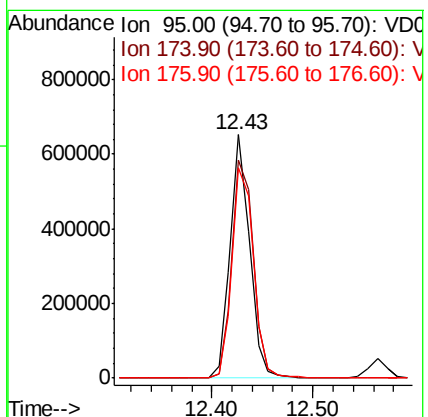
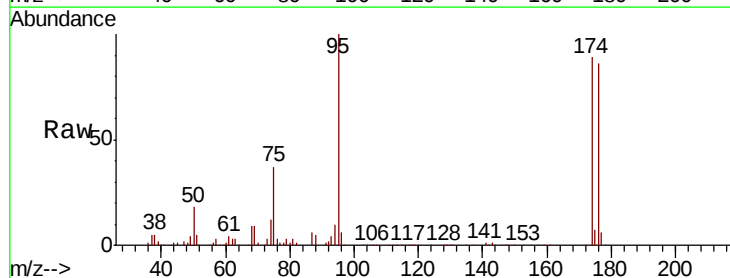
Tgt Ion: 95 Resp: 873389

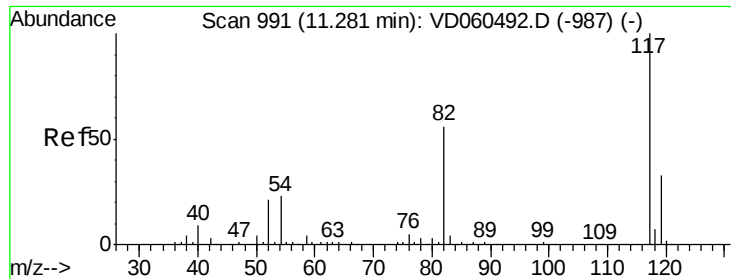
Ion Ratio Lower Upper

95 100

174 89.3 0.0 219.4

176 86.2 0.0 214.6





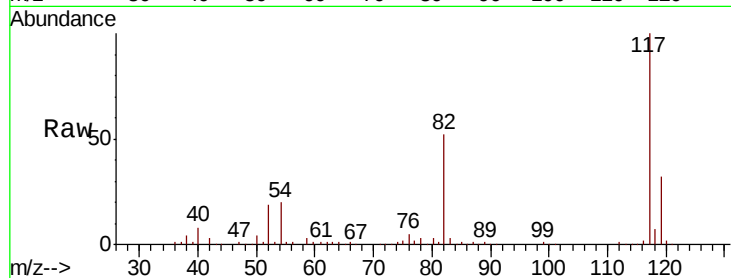
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.28 min Scan# 992
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.8	45.2	67.8
119	32.4	26.1	39.1

Manual Integrations
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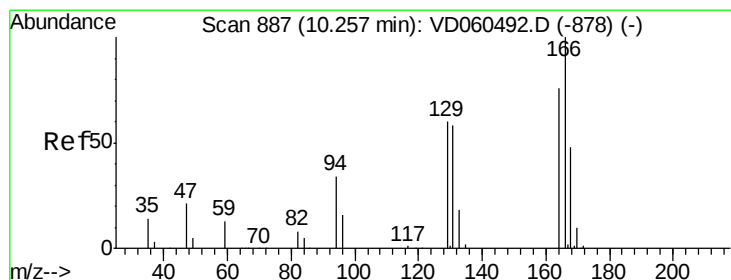
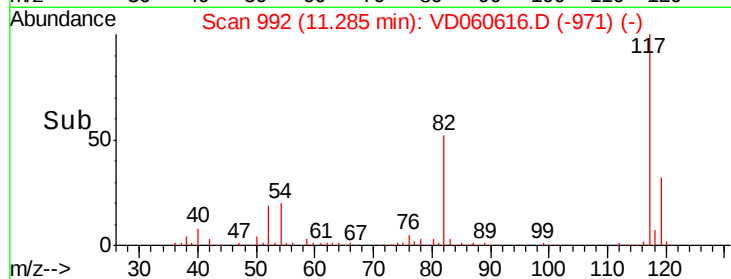
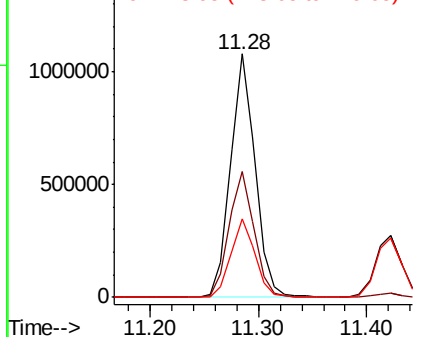


Abundance

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: 51.124 ug/l
RT: 10.25 min Scan# 887
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	105.0	157.6
129	78.8	63.0	94.4
131	75.4	60.6	90.8

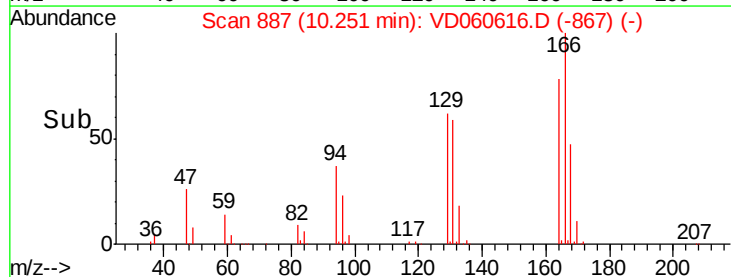
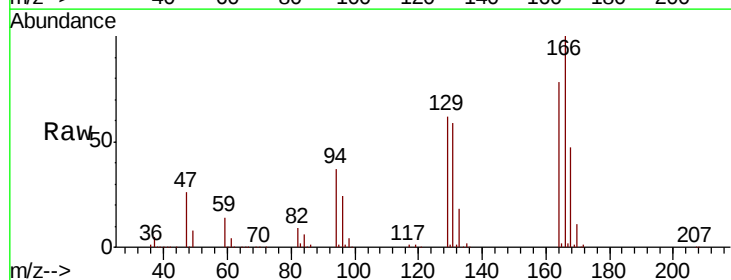
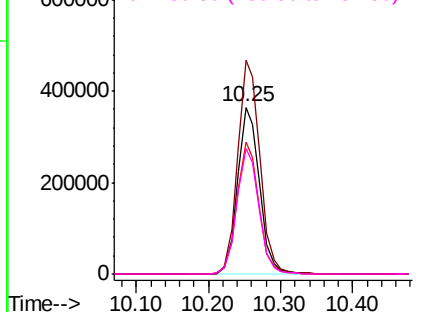
Abundance

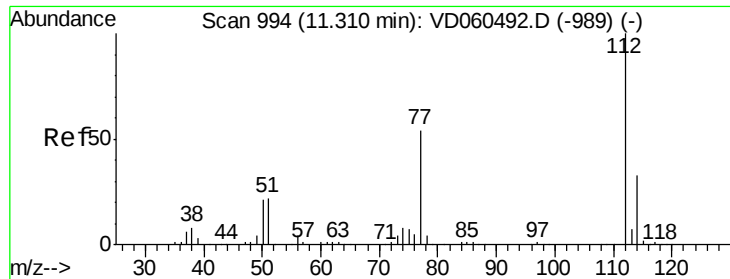
Ion 163.85 (163.55 to 164.55): V

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





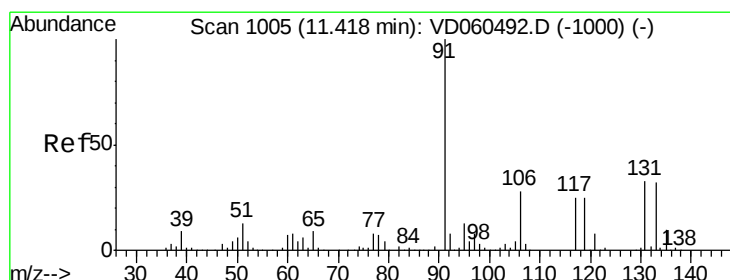
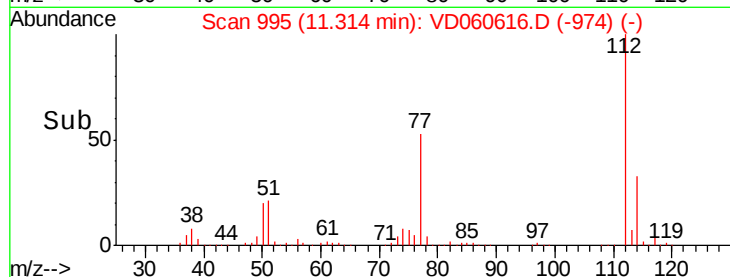
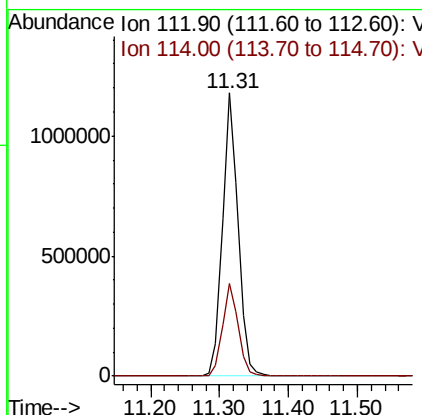
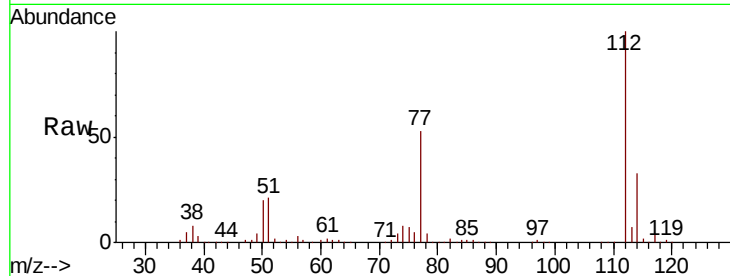
#65
Chlorobenzene
Concen: 51.325 ug/l
RT: 11.31 min Scan# 995
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1851520
Ion Ratio Lower Upper
112 100
114 32.5 26.2 39.4

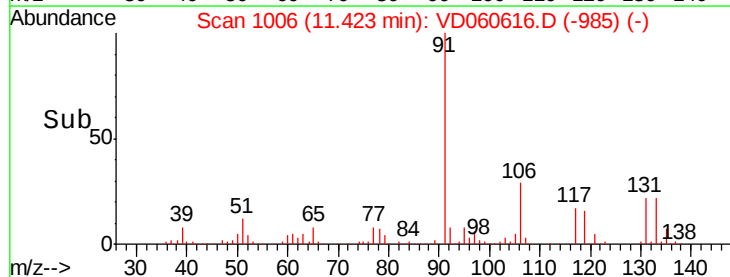
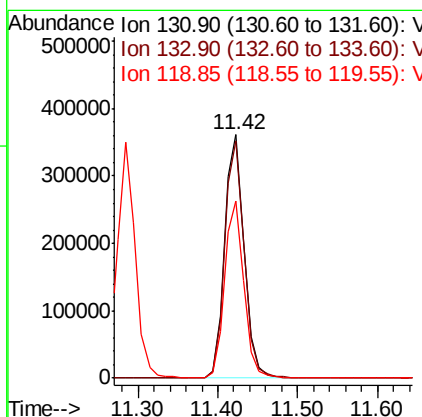
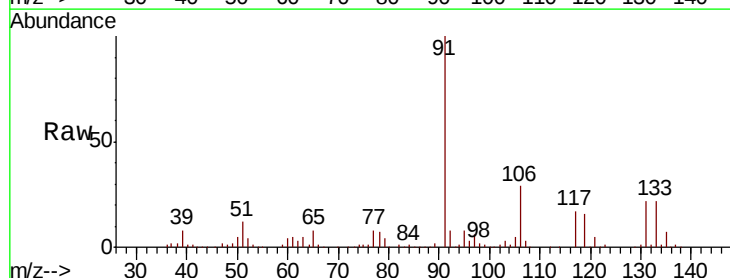
Manual Integrations
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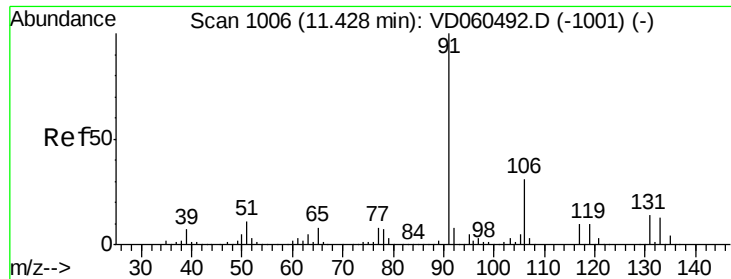
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 53.678 ug/l
RT: 11.42 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion:131 Resp: 624126
Ion Ratio Lower Upper
131 100
133 97.5 49.1 147.3
119 72.9 37.5 112.3





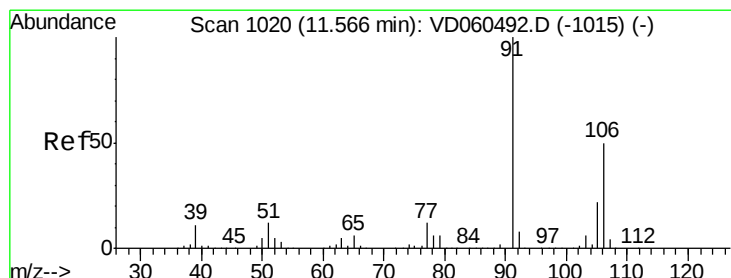
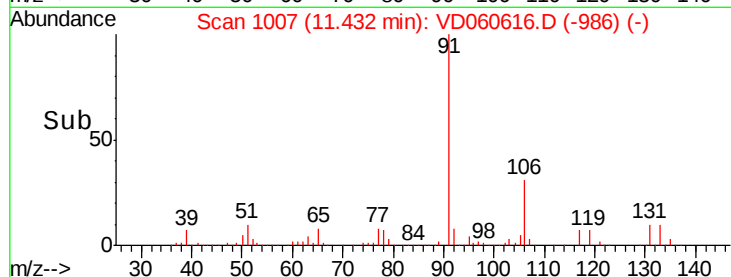
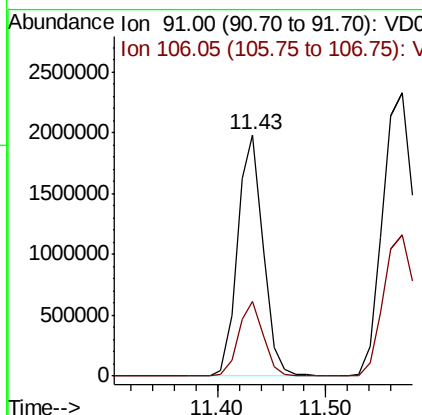
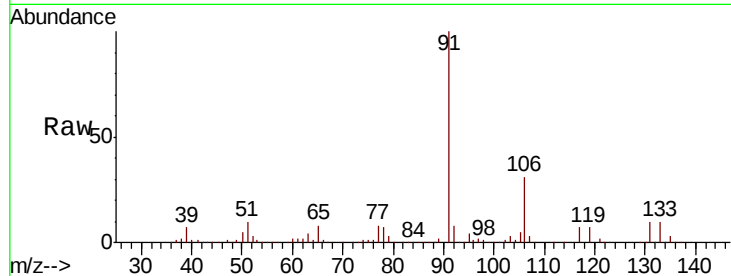
#67
Ethyl Benzene
Concen: 52.602 ug/l
RT: 11.43 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 3236710
Ion Ratio Lower Upper
91 100
106 31.2 24.6 37.0

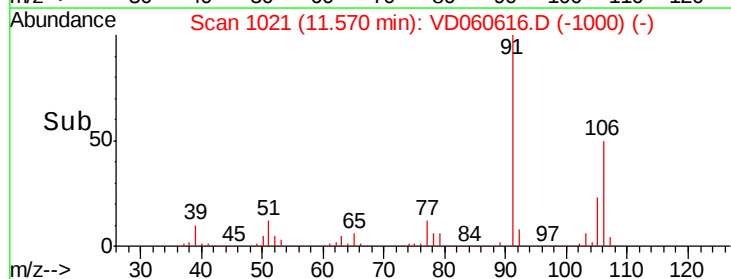
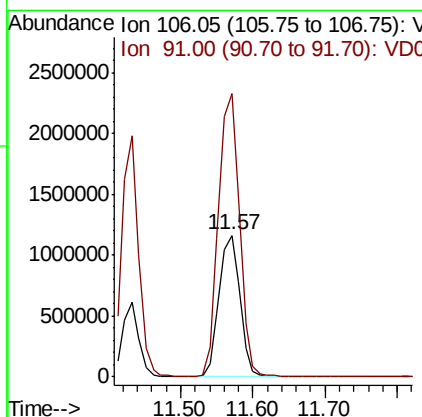
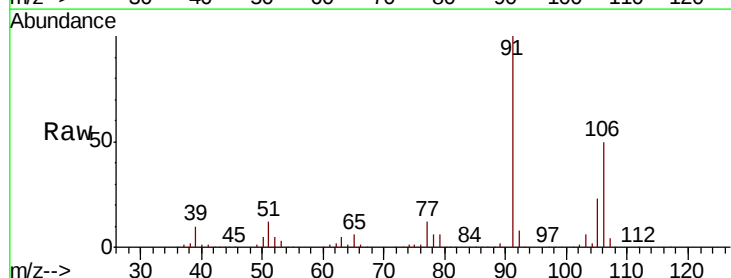
Manual Integrations
APPROVED

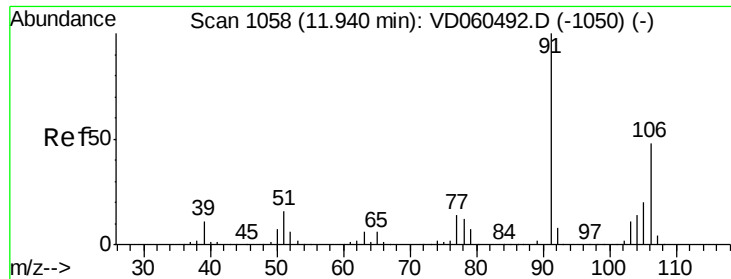
MMDadoda
12/19/2018 2:11:58 PM



#68
m/p-Xylenes
Concen: 102.005 ug/l
RT: 11.57 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 106 Resp: 2322067
Ion Ratio Lower Upper
106 100
91 200.3 160.5 240.7





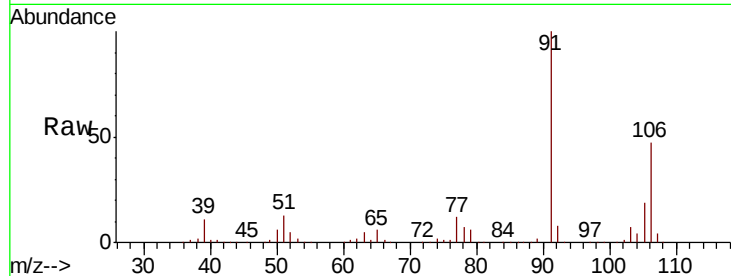
#69
o-Xylene
Concen: 51.573 ug/l
RT: 11.93 min Scan# 1058
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

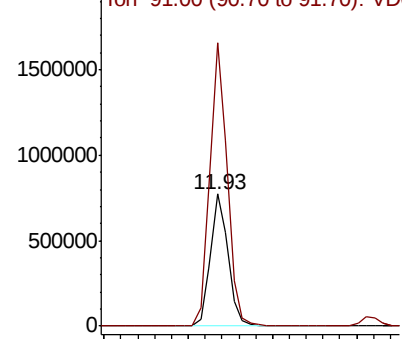
Tot Ion:106 Resp: 1118845
Ion Ratio Lower Upper
106 100
91 214.3 103.4 310.1

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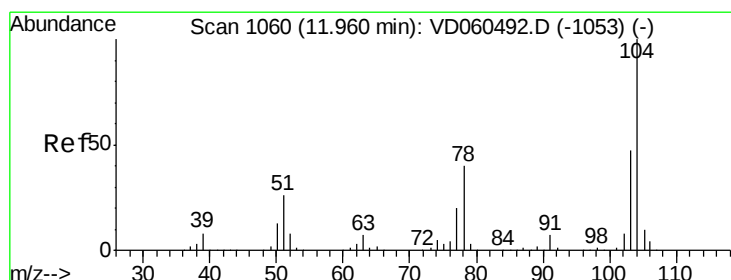
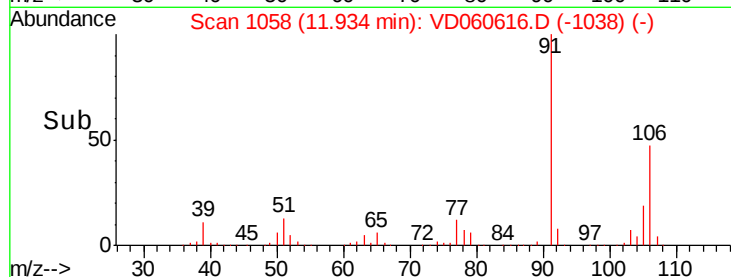
MMDadoda
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Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

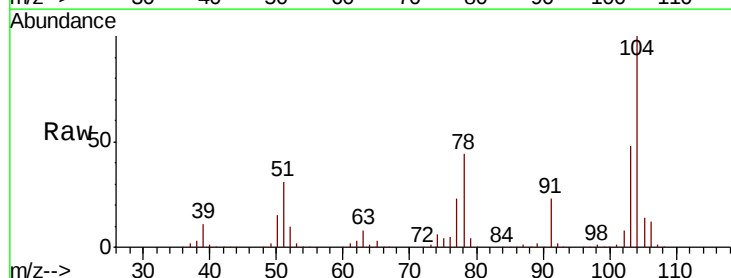


Time--> 11.80 11.90 12.00 12.10

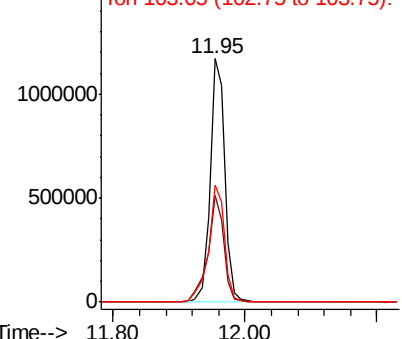


#70
Styrene
Concen: 52.177 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

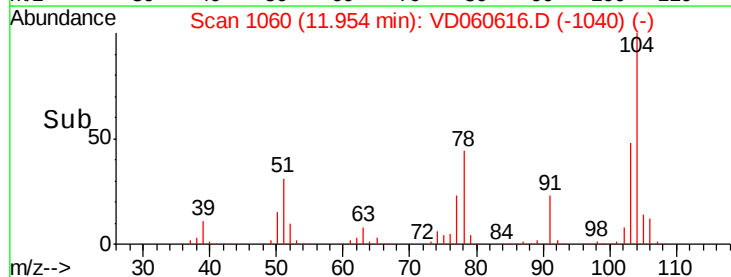
Tgt Ion:104 Resp: 1816915
Ion Ratio Lower Upper
104 100
78 43.8 32.1 48.1
103 47.8 37.2 55.8

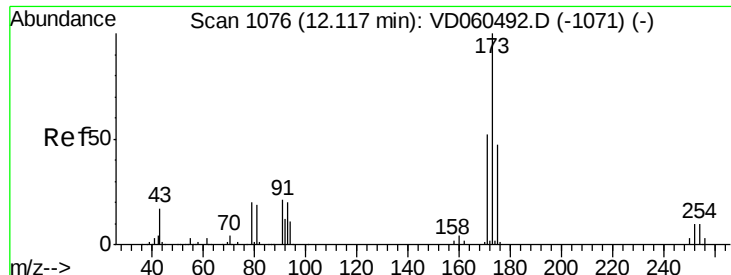


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V



Time--> 11.80 12.00





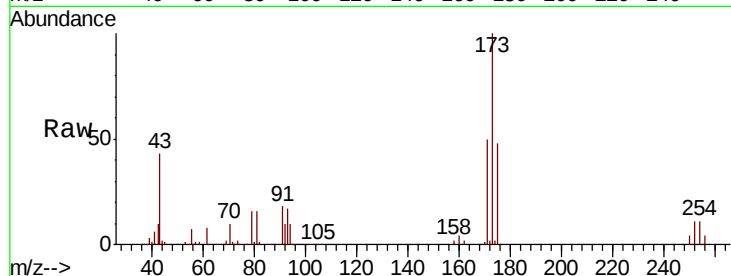
#71
Bromoform
Concen: 53.566 ug/l
RT: 12.12 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

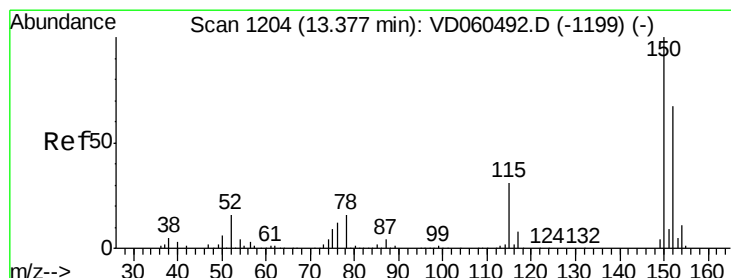
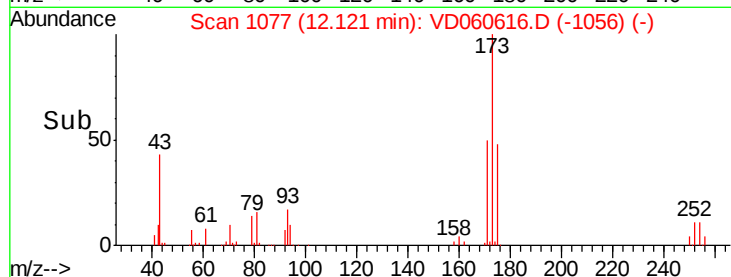
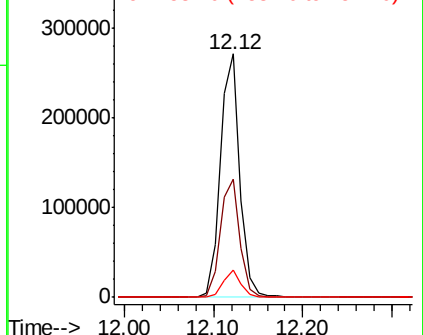
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.5	70.6
254	11.2	7.8	11.8

Manual Integrations
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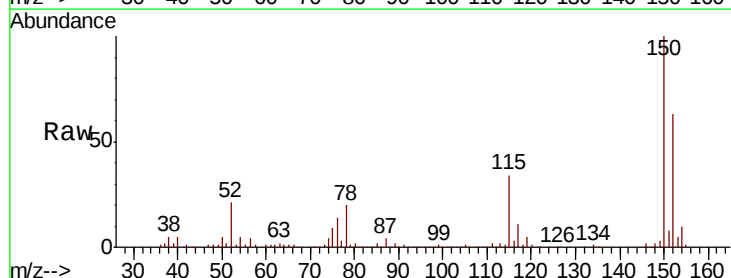


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

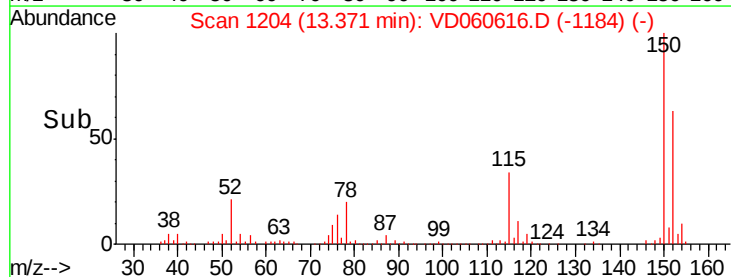
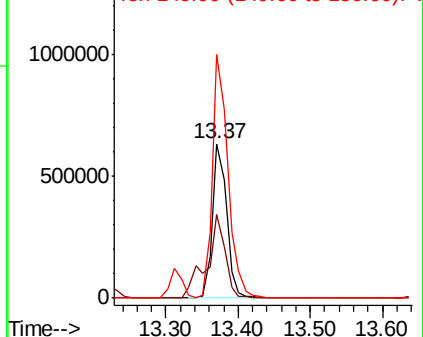


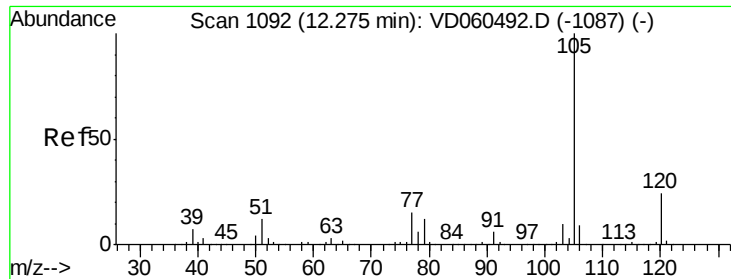
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.37 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.0	24.6	74.0
150	157.9	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: 50.642 ug/l

RT: 12.28 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3080690

Ion Ratio Lower Upper

105 100

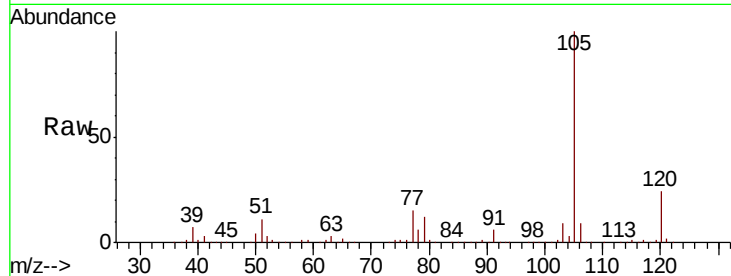
120 24.1 11.9 35.9

Manual Integrations

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

2500000

2000000

1500000

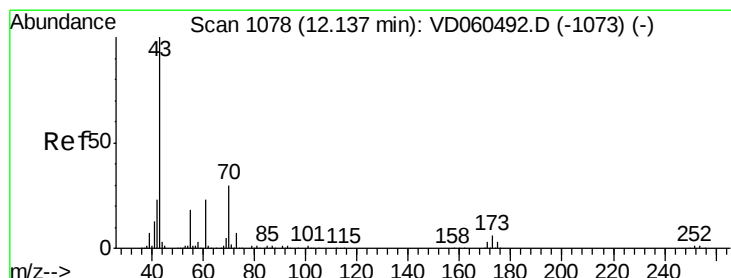
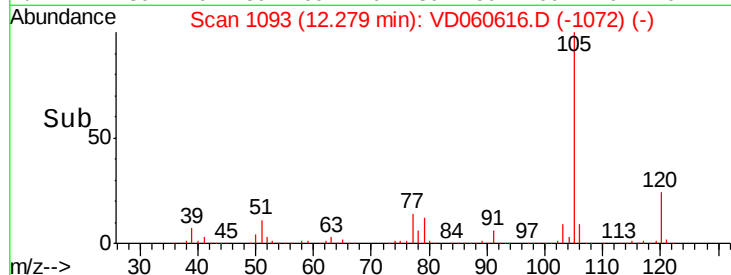
1000000

500000

0

12.20 12.30 12.40

Time-->



#74

N-ethyl acetate

Concen: 50.546 ug/l

RT: 12.13 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Tgt Ion: 43 Resp: 743136

Ion Ratio Lower Upper

43 100

70 26.4 23.8 35.8

55 17.1 14.2 21.2

61 21.0 18.1 27.1

Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

800000

600000

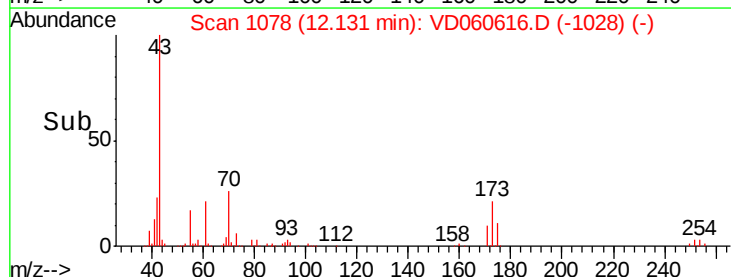
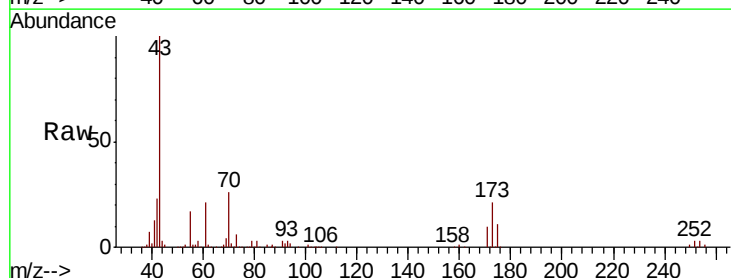
400000

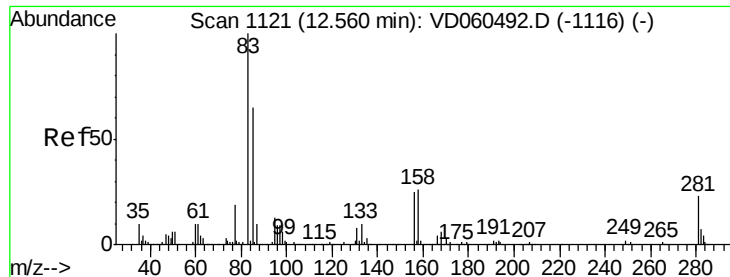
200000

0

12.10 12.20

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 50.863 ug/l

RT: 12.56 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 495351

Ion Ratio Lower Upper

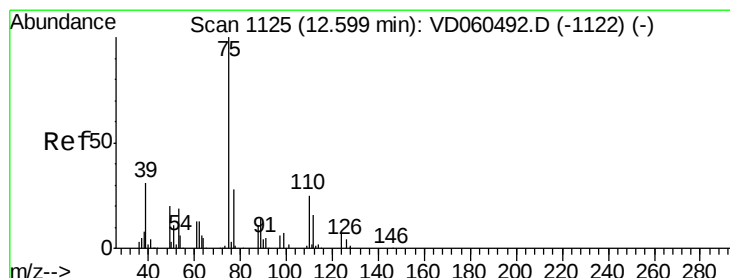
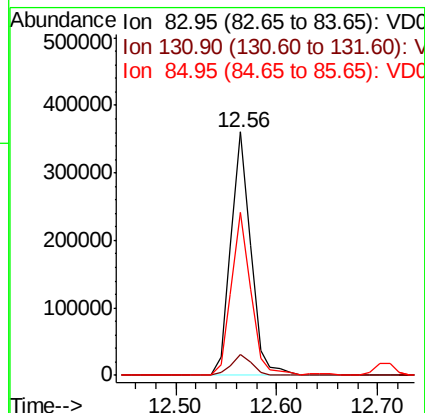
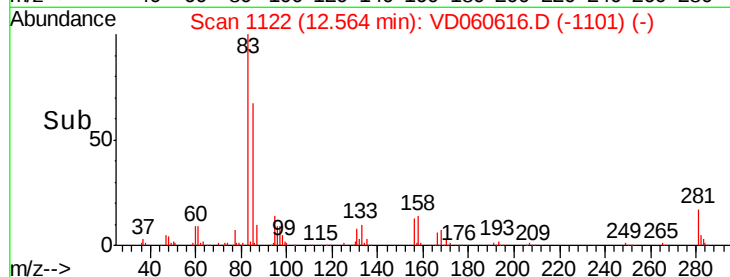
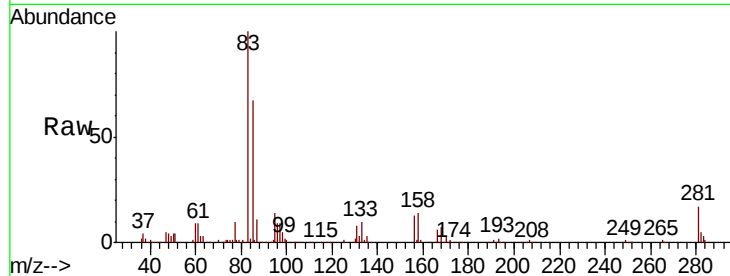
83 100

131 8.5 3.8 11.4

85 66.8 32.3 96.9

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#76

1,2,3-Trichloropropane

Concen: 51.554 ug/l

RT: 12.59 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VD060616.D

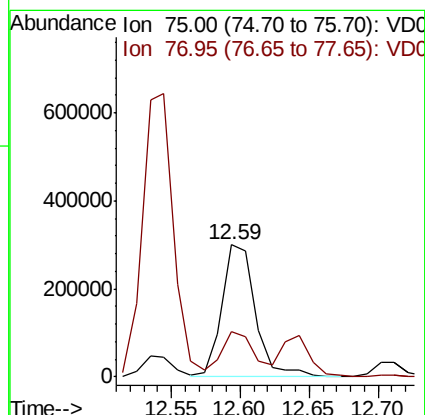
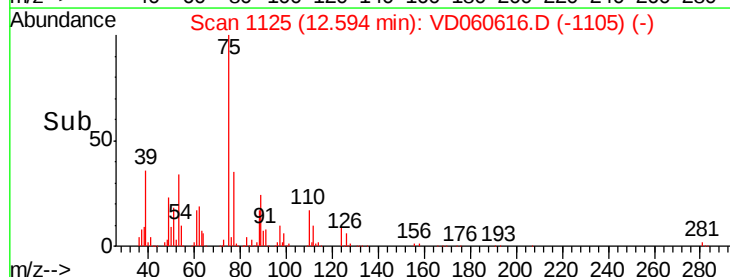
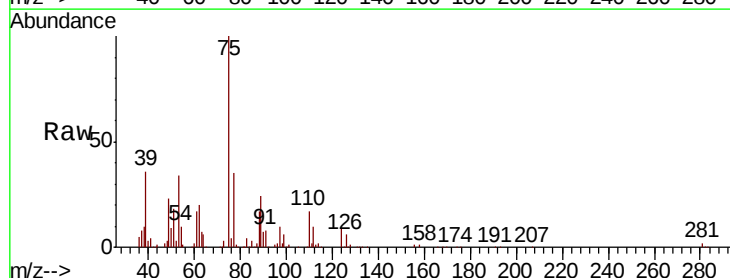
Acq: 18 Dec 2018 12:31

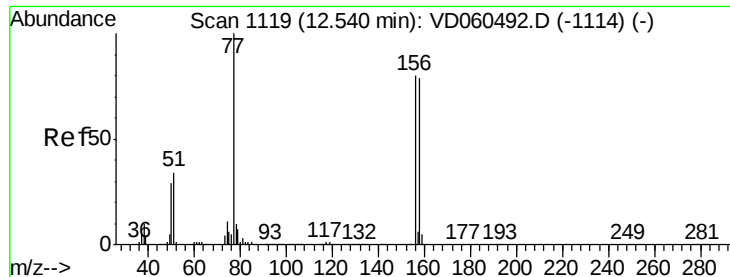
Tgt Ion: 75 Resp: 502165

Ion Ratio Lower Upper

75 100

77 34.6 16.4 49.4





#77

Bromobenzene

Concen: 52.566 ug/l

RT: 12.54 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

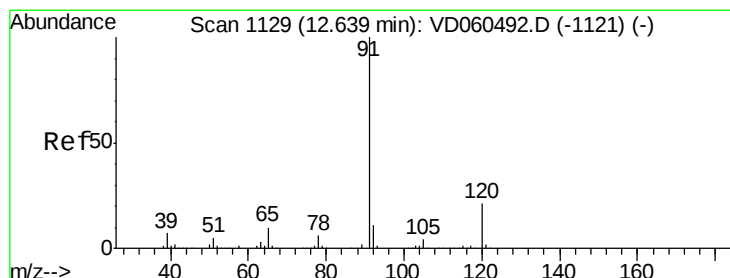
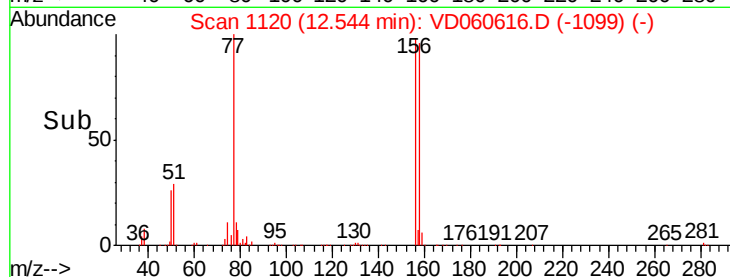
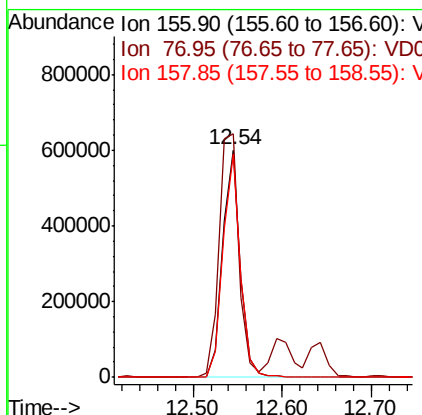
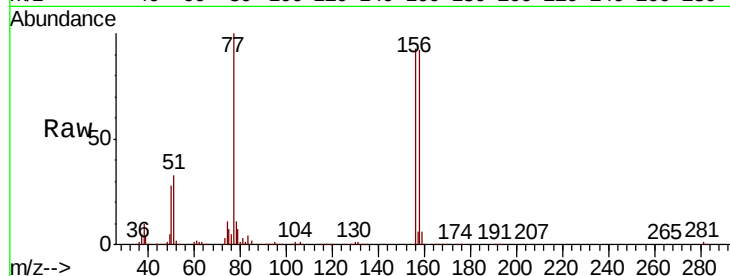
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	107.0	62.5	187.6
158	98.1	49.4	148.2

Manual Integrations
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#78

n-propylbenzene

Concen: 50.581 ug/l

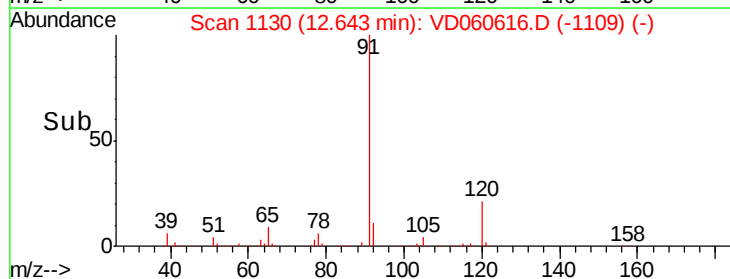
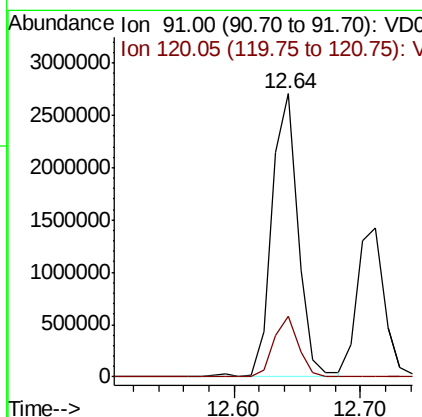
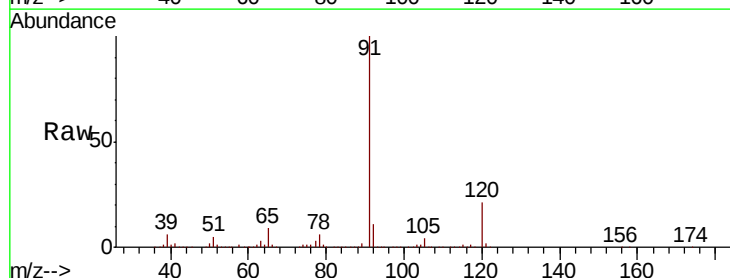
RT: 12.64 min Scan# 1130

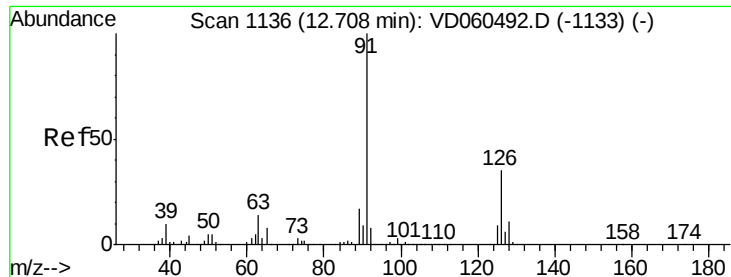
Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.4	31.1





#79

2-Chlorotoluene

Concen: 51.299 ug/l

RT: 12.71 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2140585

Ion Ratio Lower Upper

91 100

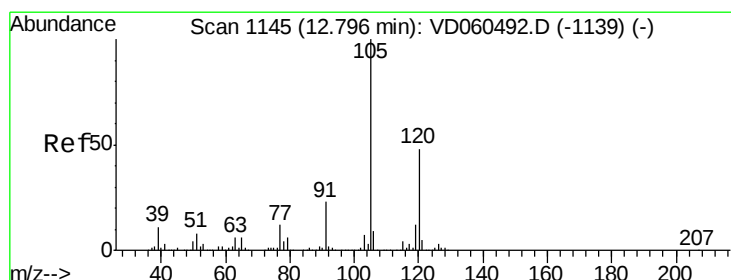
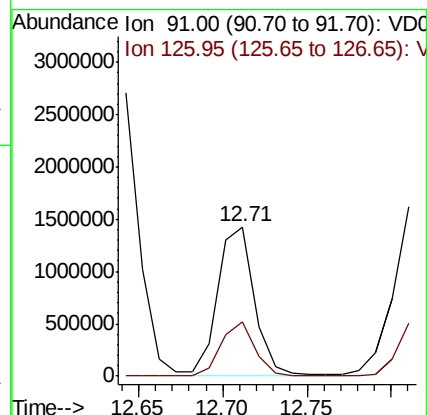
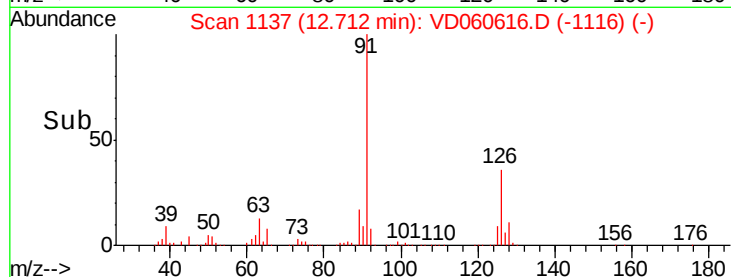
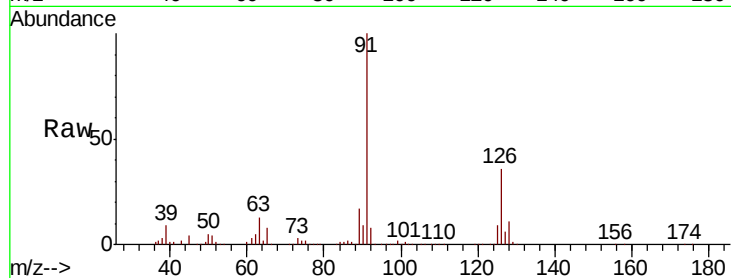
126 35.9 17.3 52.0

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 51.242 ug/l

RT: 12.79 min Scan# 1145

Delta R.T. -0.01 min

Lab File: VD060616.D

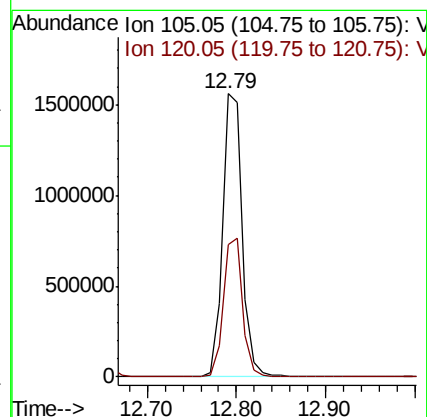
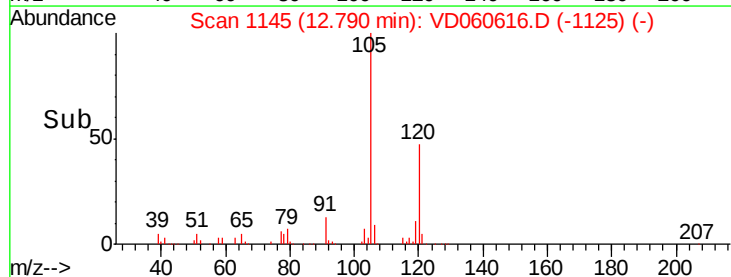
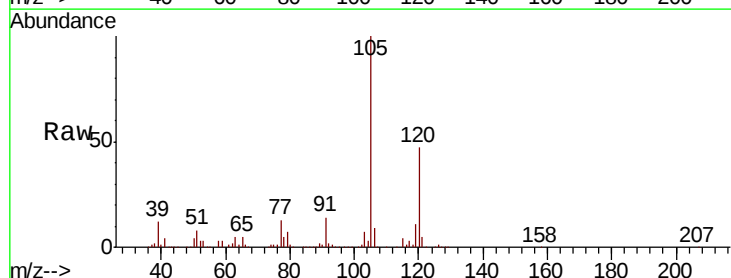
Acq: 18 Dec 2018 12:31

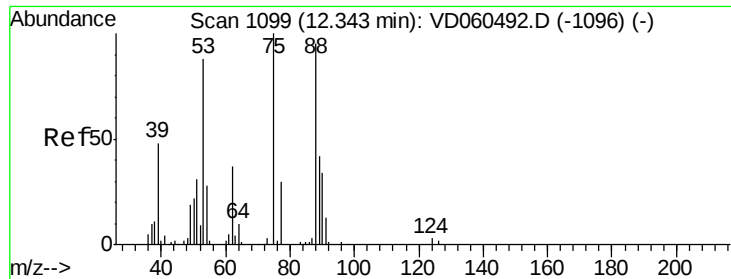
Tgt Ion: 105 Resp: 2381910

Ion Ratio Lower Upper

105 100

120 46.9 24.2 72.6





#81

trans-1,4-Dichloro-2-butene

Concen: 53.103 ug/l

RT: 12.35 min Scan# 1100

Delta R.T. 0.00 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 144263

Ion Ratio Lower Upper

75 100

53 83.1 70.5 105.7

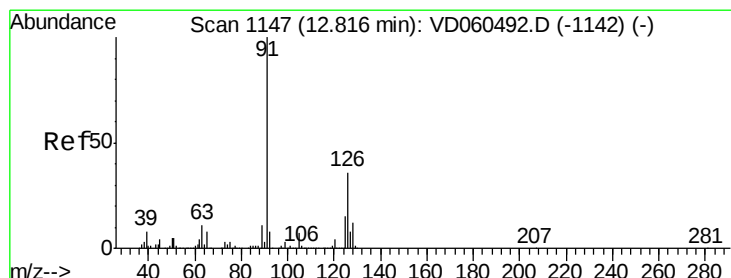
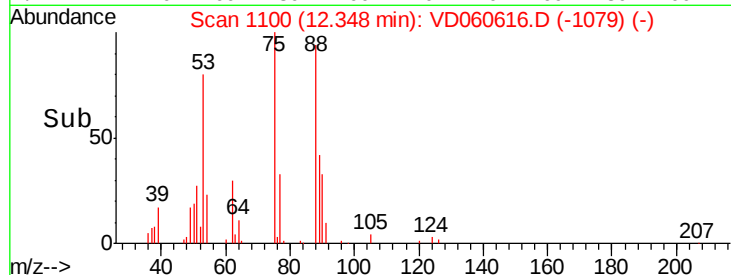
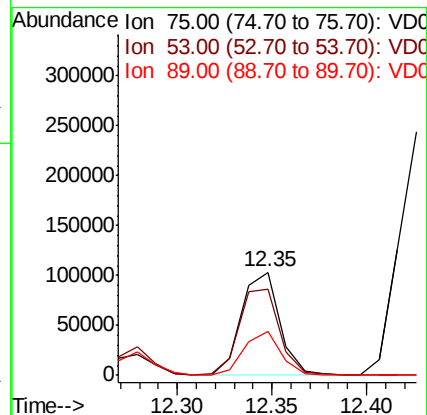
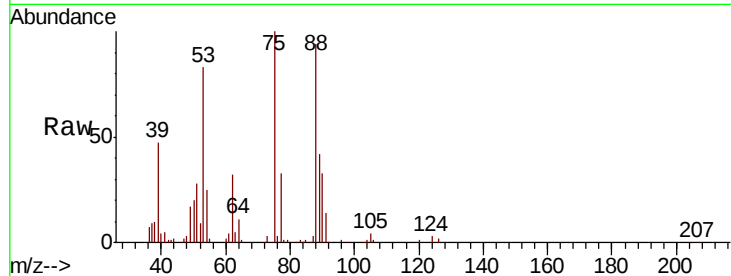
89 42.2 33.6 50.4

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#82

4-Chlorotoluene

Concen: 50.586 ug/l

RT: 12.81 min Scan# 1147

Delta R.T. -0.01 min

Lab File: VD060616.D

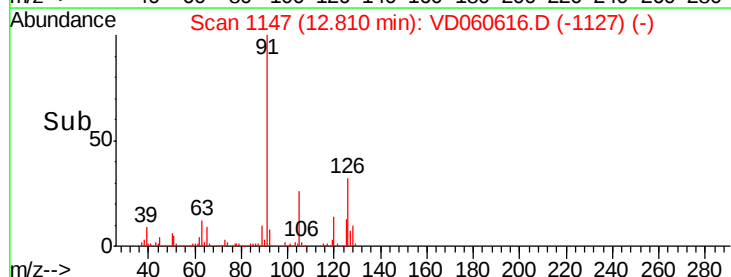
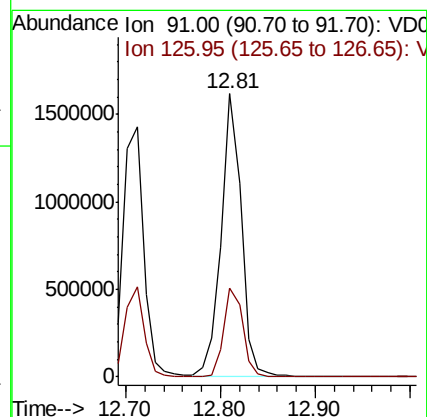
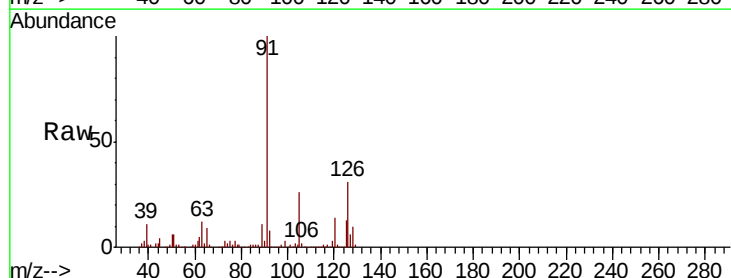
Acq: 18 Dec 2018 12:31

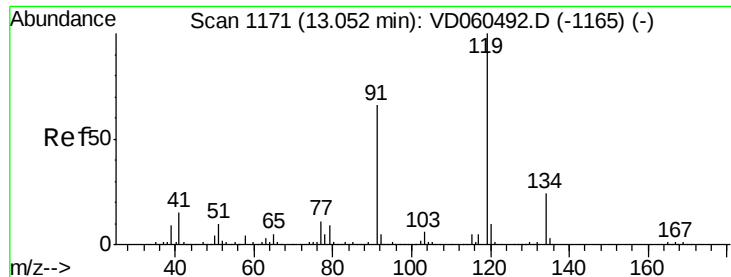
Tgt Ion: 91 Resp: 2370795

Ion Ratio Lower Upper

91 100

126 31.5 17.8 53.4





#83

tert-Butylbenzene

Concen: 51.825 ug/l

RT: 13.05 min Scan# 1171

Delta R.T. -0.01 min

Lab File: VD060616.D

Acq: 18 Dec 2018 12:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 2701084

Ion Ratio Lower Upper

119 100

91 73.8 33.1 99.2

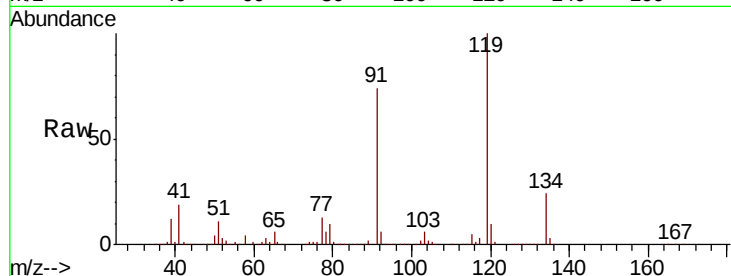
134 23.8 12.0 36.0

Manual Integrations

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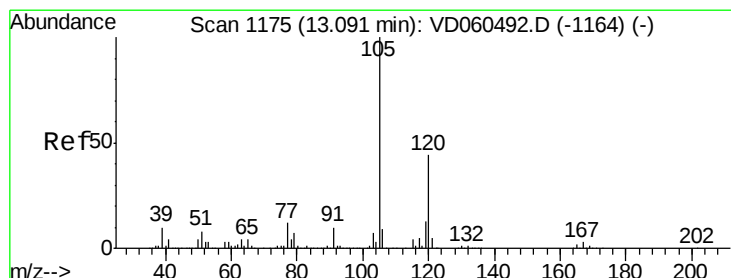
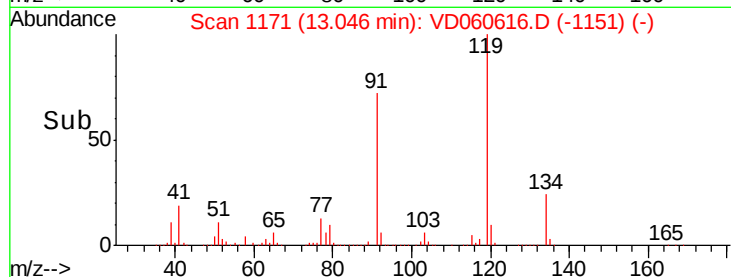
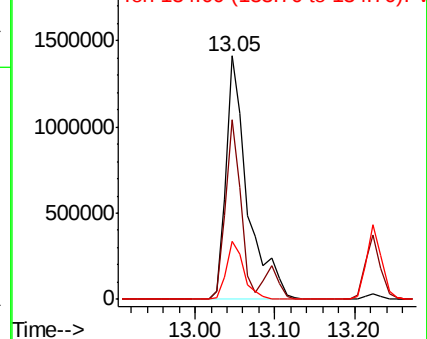
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Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 49.610 ug/l

RT: 13.10 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VD060616.D

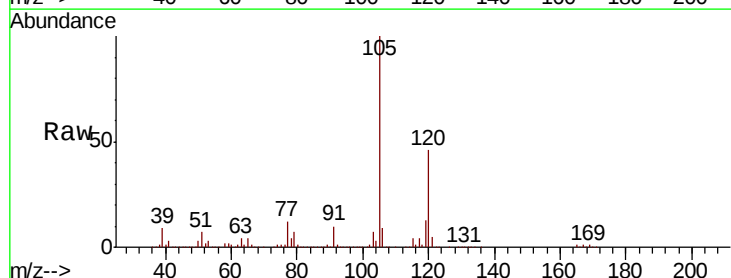
Acq: 18 Dec 2018 12:31

Tgt Ion:105 Resp: 2387776

Ion Ratio Lower Upper

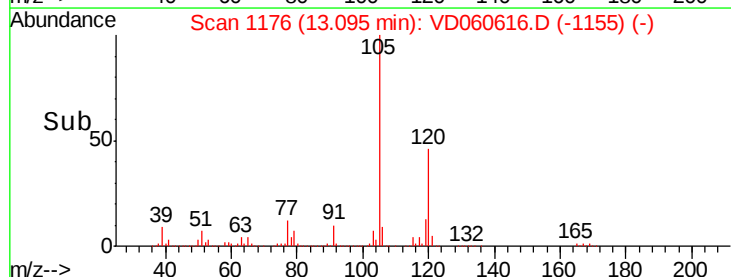
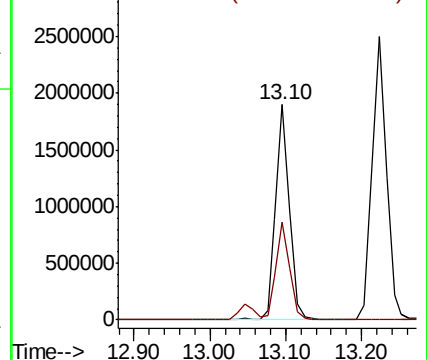
105 100

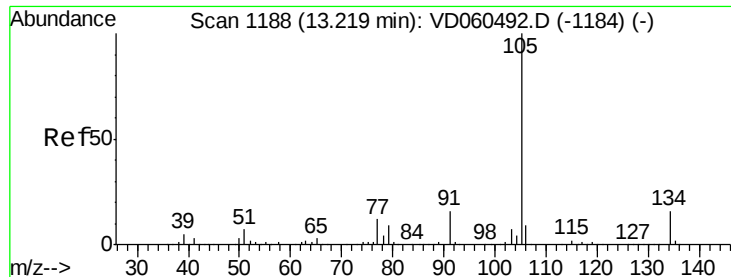
120 45.6 22.3 66.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





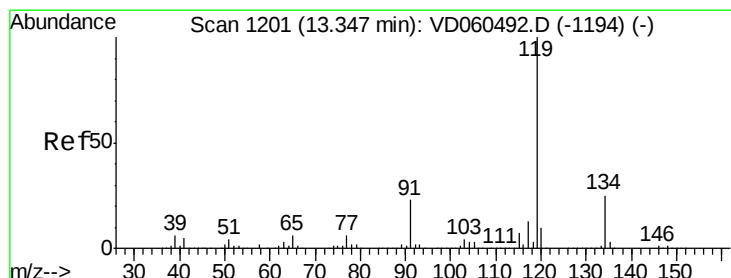
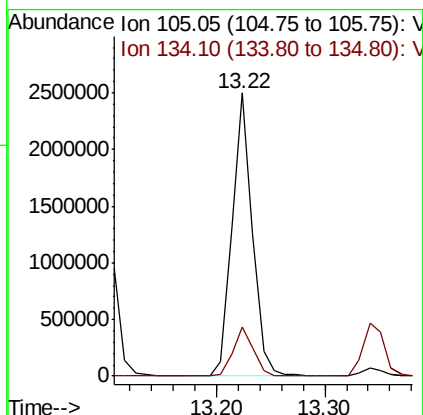
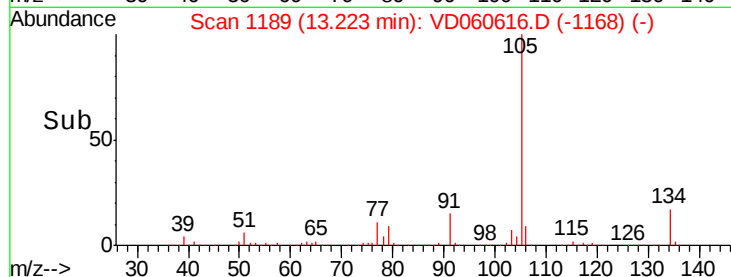
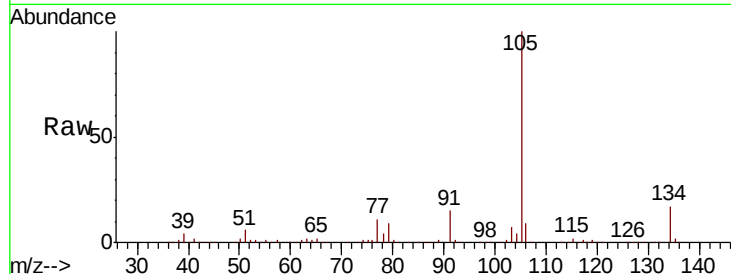
#85
 sec-Butylbenzene
 Concen: 49.879 ug/l
 RT: 13.22 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 3240150
 Ion Ratio Lower Upper
 105 100
 134 17.4 7.9 23.7

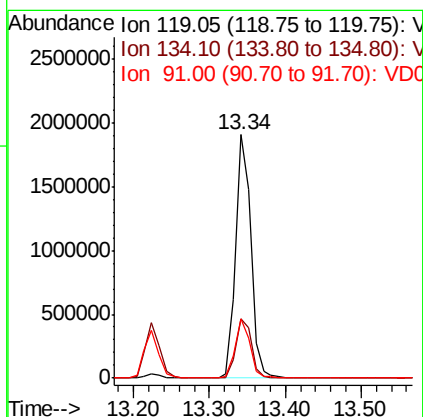
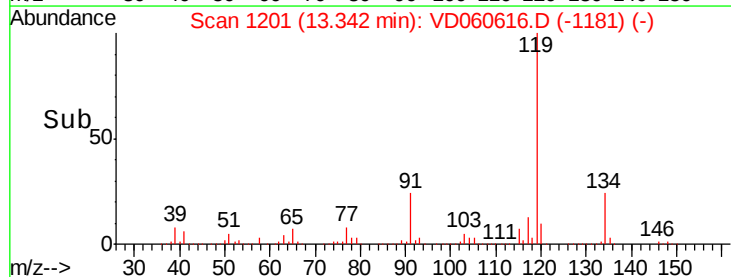
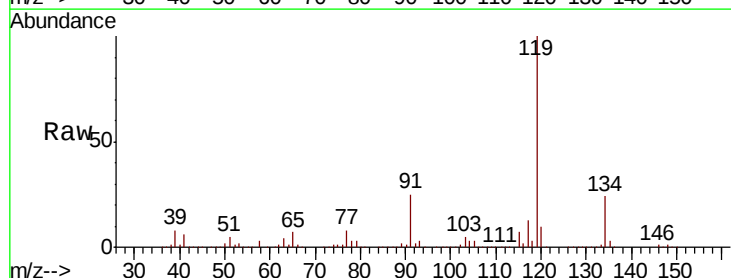
Manual Integrations
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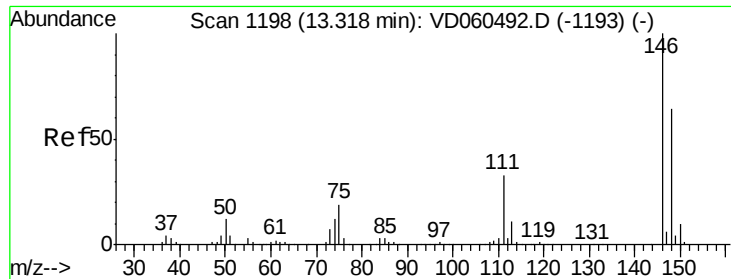
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#86
 p-Isopropyltoluene
 Concen: 50.729 ug/l
 RT: 13.34 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Tgt Ion:119 Resp: 2612252
 Ion Ratio Lower Upper
 119 100
 134 24.4 12.5 37.5
 91 24.5 11.5 34.4





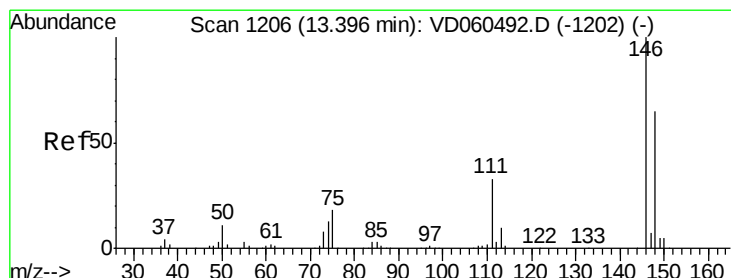
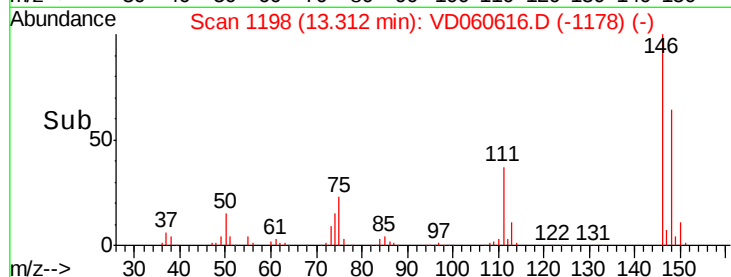
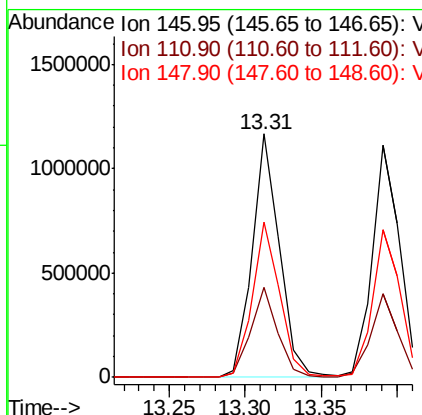
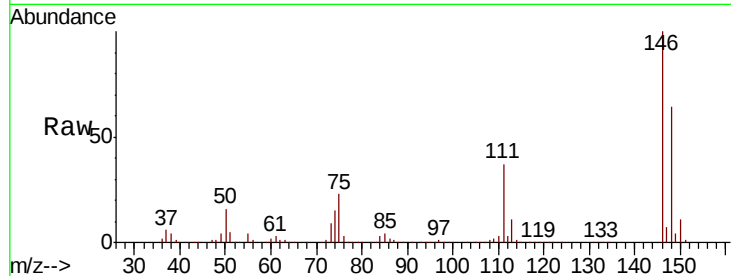
#87
 1,3-Dichlorobenzene
 Concen: 50.678 ug/l
 RT: 13.31 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	16.5	49.5
148	63.9	32.3	96.8

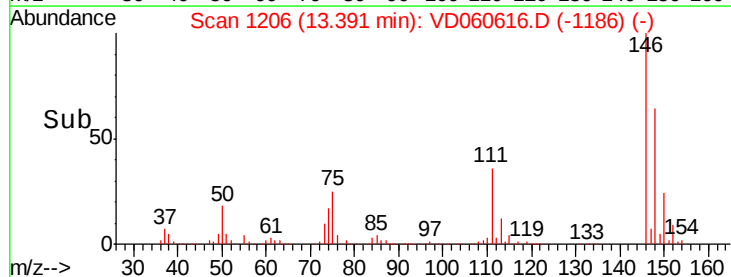
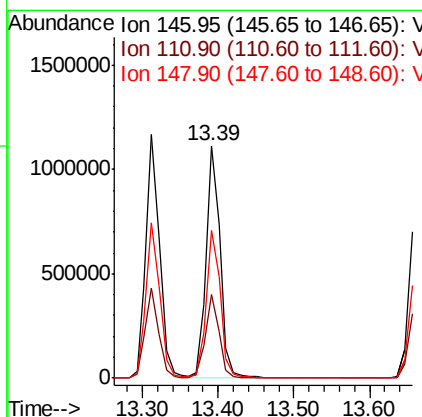
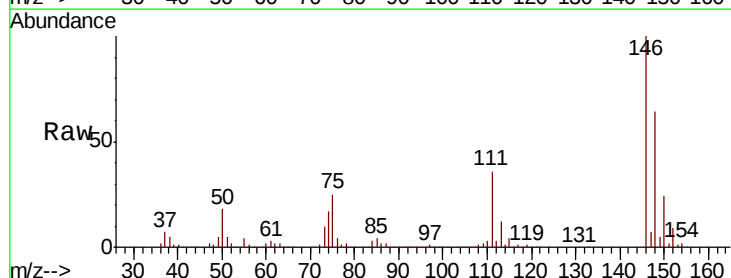
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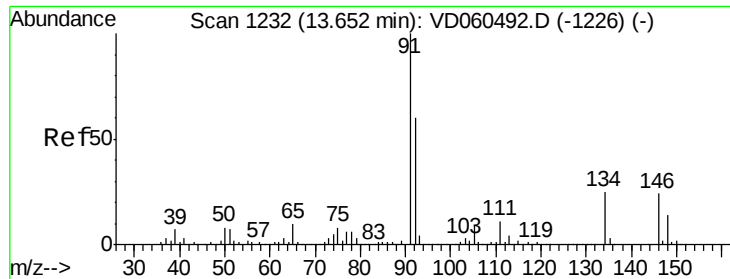
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#88
 1,4-Dichlorobenzene
 Concen: 50.662 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	16.4	49.1
148	63.6	32.6	98.0





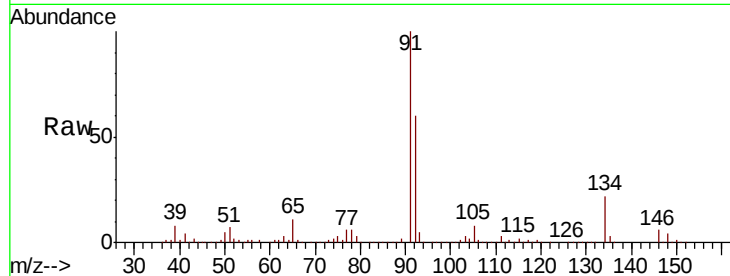
#89
n-Butylbenzene
Concen: 53.081 ug/l
RT: 13.65 min Scan# 1232
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

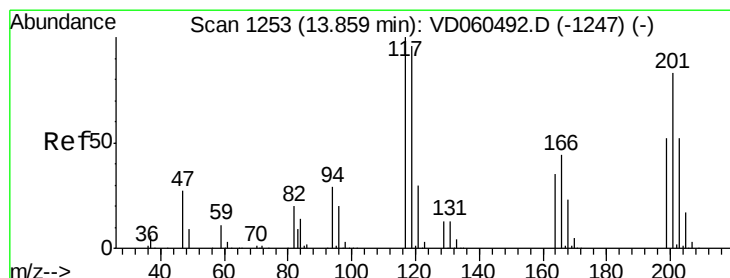
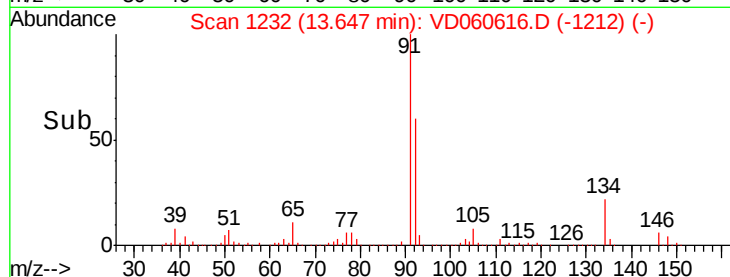
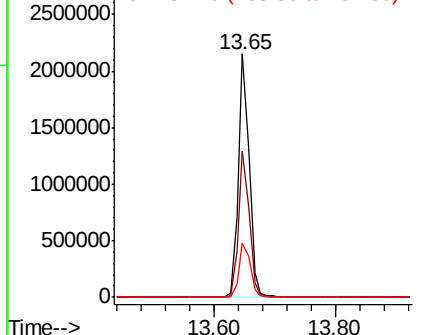
Tot Ion: 91 Resp: 2674028
Ion Ratio Lower Upper
91 100
92 60.3 30.0 90.1
134 22.3 12.5 37.5

Manual Integrations
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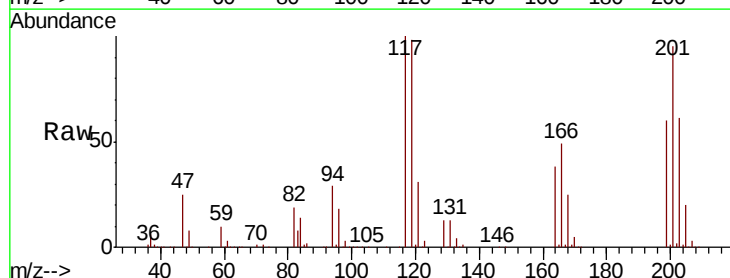


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V

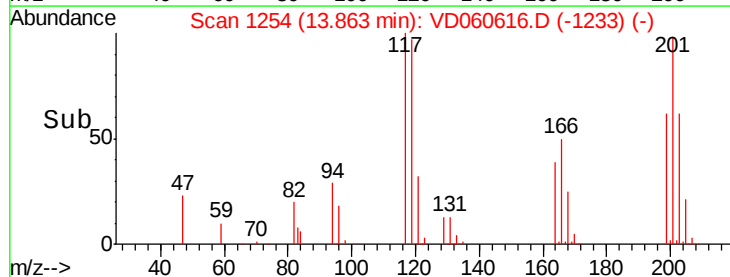
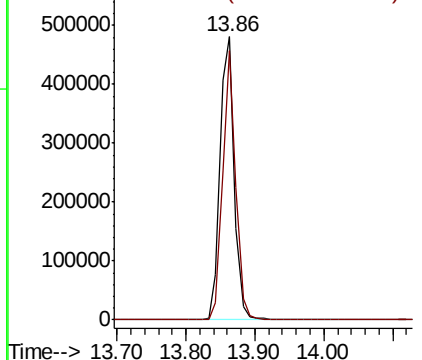


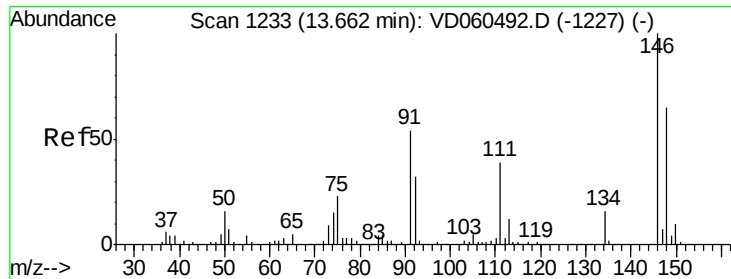
#90
Hexachloroethane
Concen: 53.191 ug/l
RT: 13.86 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion: 117 Resp: 686754
Ion Ratio Lower Upper
117 100
201 95.3 41.3 123.9



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V





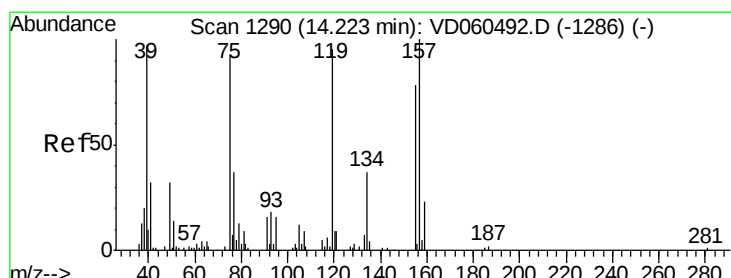
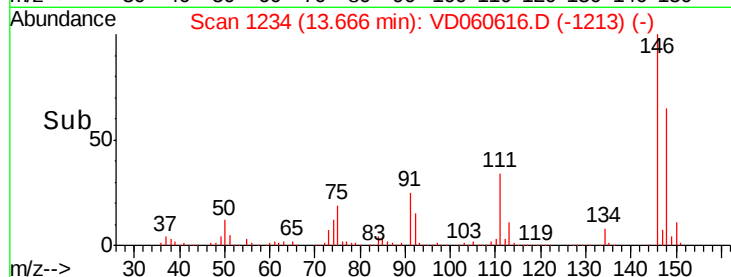
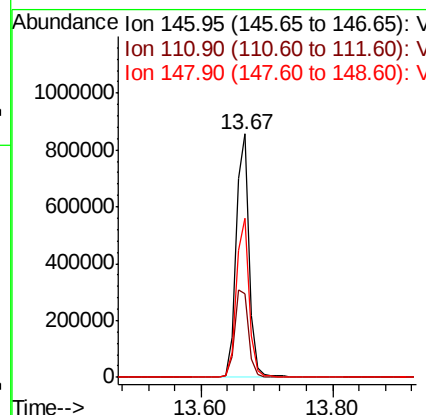
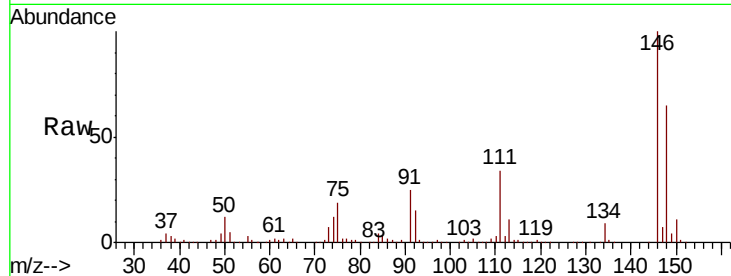
#91
 1,2-Dichlorobenzene
 Concen: 49.575 ug/l
 RT: 13.67 min Scan# 1234
 Delta R.T. 0.00 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1172961
 Ion Ratio Lower Upper
 146 100
 111 34.3 19.3 57.8
 148 65.3 32.3 96.8

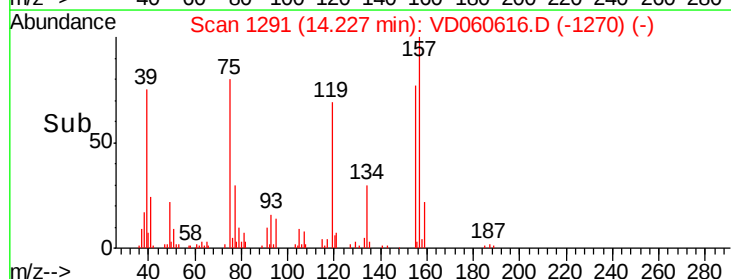
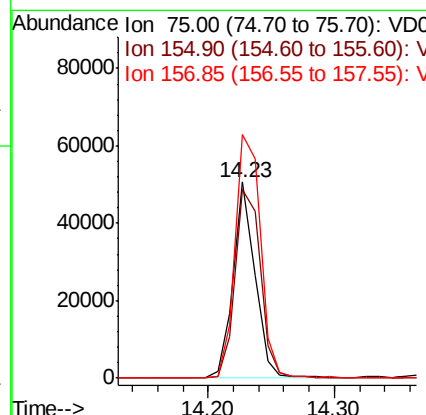
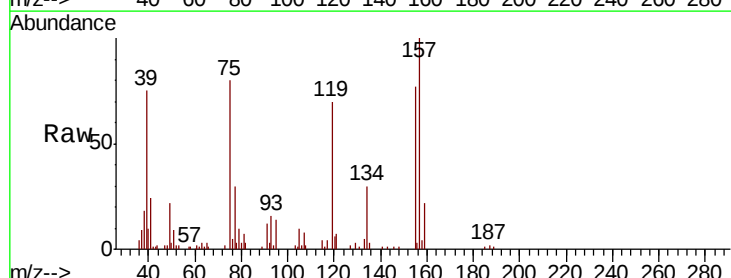
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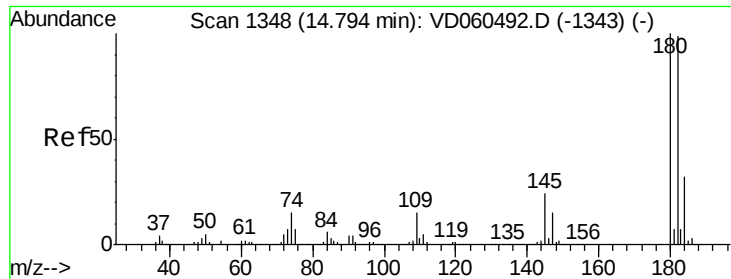
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.095 ug/l
 RT: 14.23 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Tgt Ion: 75 Resp: 60295
 Ion Ratio Lower Upper
 75 100
 155 96.2 41.6 124.9
 157 124.4 53.6 160.8





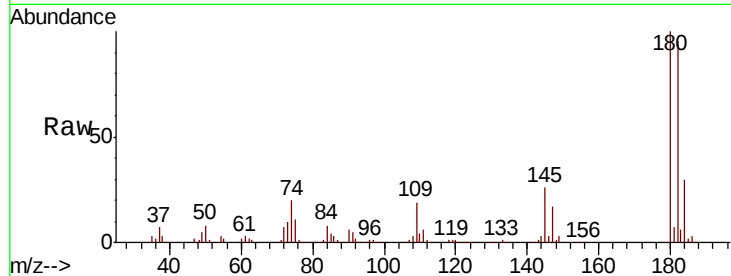
#93
 1,2,4-Trichlorobenzene
 Concen: 51.699 ug/l
 RT: 14.79 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

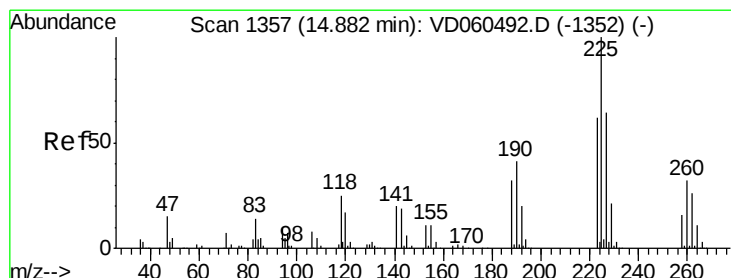
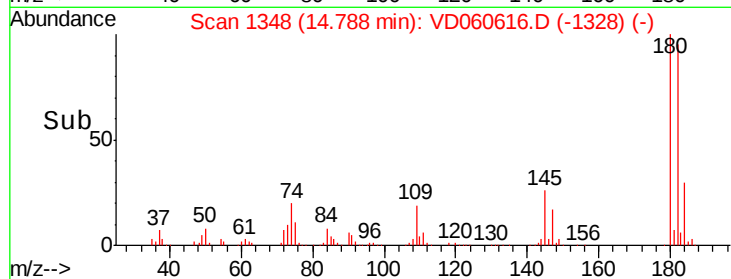
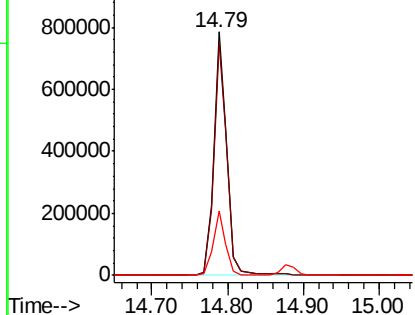
Tot Ion	Ratio	Resp	Lower	Upper
180	100	956217		
182	95.4	49.4	148.0	
145	26.5	11.9	35.9	

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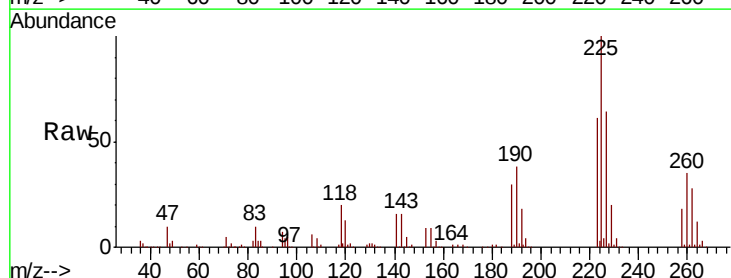


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

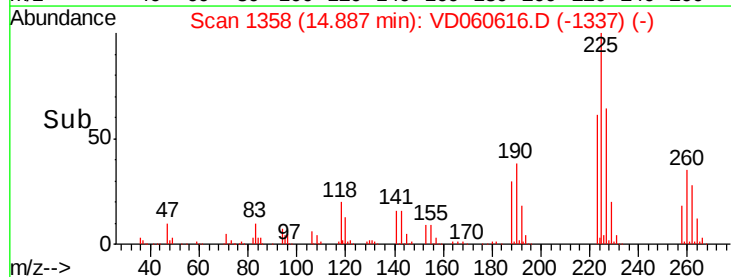
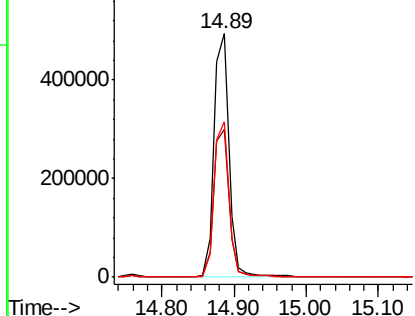


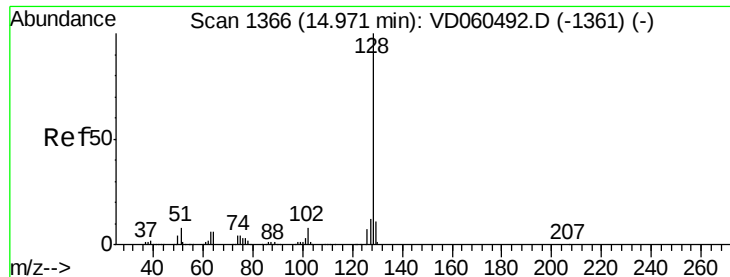
#94
 Hexachlorobutadiene
 Concen: 51.762 ug/l
 RT: 14.89 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VD060616.D
 Acq: 18 Dec 2018 12:31

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	706367		
223	60.8	31.2	93.6	
227	63.7	32.0	96.0	



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





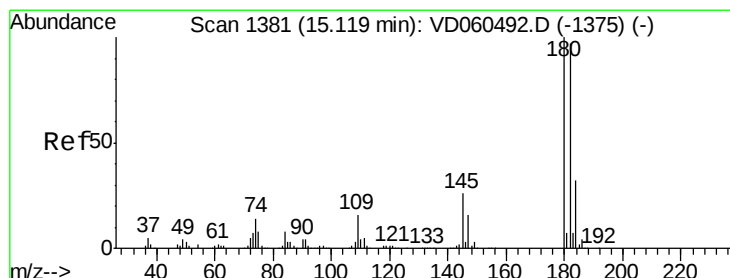
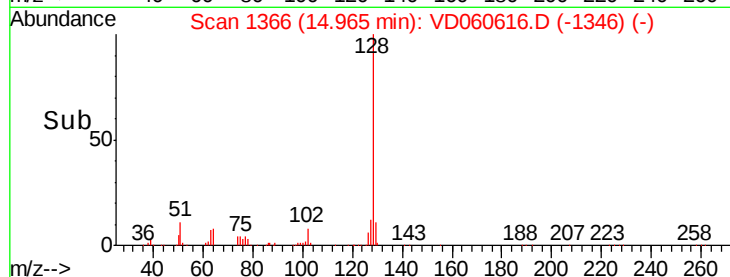
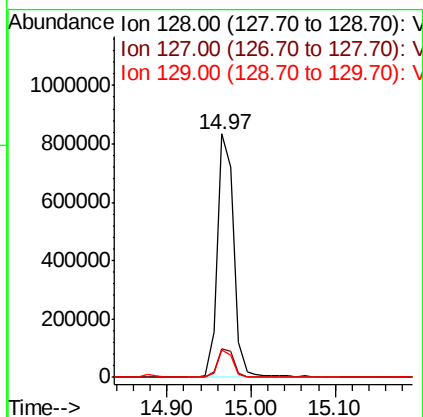
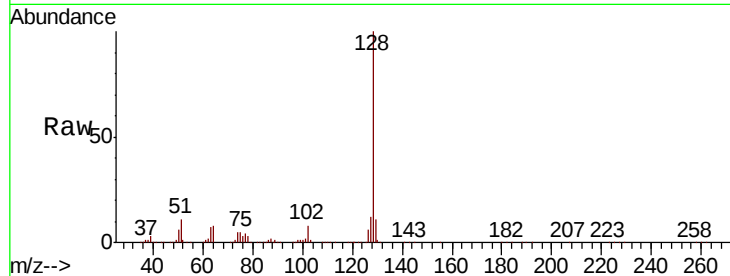
#95
Naphthalene
Concen: 51.161 ug/l
RT: 14.97 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 1125727
Ion Ratio Lower Upper
128 100
127 11.9 9.8 14.8
129 11.0 8.6 13.0

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#96
1,2,3-Trichlorobenzene
Concen: 49.986 ug/l
RT: 15.11 min Scan# 1381
Delta R.T. -0.01 min
Lab File: VD060616.D
Acq: 18 Dec 2018 12:31

Tgt Ion:180 Resp: 736666
Ion Ratio Lower Upper
180 100
182 94.7 48.5 145.5
145 27.9 12.9 38.7

