

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111519\
 Data File : VD064220.D
 Acq On : 15 Nov 2019 11:45
 Operator : VA/SY
 Sample : VD1115SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 12:23:16 PM

Quant Time: Nov 16 05:38:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	671692	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	953123	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	822899	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	399062	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	271092	49.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.14%	
35) Dibromofluoromethane	7.91	113	267949	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
50) Toluene-d8	10.34	98	1026273	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	12.64	95	339450	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	108169	19.417	ug/l	98
3) Chloromethane	2.21	50	126274	21.132	ug/l	97
4) Vinyl Chloride	2.35	62	146029	22.853	ug/l	97
5) Bromomethane	2.76	94	94049	23.309	ug/l	100
6) Chloroethane	2.92	64	95169	23.308	ug/l	97
7) Trichlorofluoromethane	3.27	101	251128	24.240	ug/l	99
8) Diethyl Ether	3.71	74	56616	19.875	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.08	101	117905	19.912	ug/l	98
10) Methyl Iodide	4.29	142	118803	18.893	ug/l	99
11) Tert butyl alcohol	5.26	59	40920	106.053	ug/l #	86
12) 1,1-Dichloroethene	4.06	96	112405	19.916	ug/l	93
13) Acrolein	3.93	56	27259	83.510	ug/l	98
14) Allyl chloride	4.70	41	190097	19.049	ug/l	96
15) Acrylonitrile	5.43	53	127845	105.275	ug/l	100
16) Acetone	4.16	43	105844	80.877	ug/l	94
17) Carbon Disulfide	4.40	76	336356	19.136	ug/l	99
18) Methyl Acetate	4.73	43	76765	21.001	ug/l	96
19) Methyl tert-butyl Ether	5.48	73	270436	20.071	ug/l	95
20) Methylene Chloride	4.96	84	135726	20.531	ug/l	97
21) trans-1,2-Dichloroethene	5.46	96	126910	19.847	ug/l	93
22) Diisopropyl ether	6.37	45	360554	19.473	ug/l	98
23) Vinyl Acetate	6.31	43	1054590	102.178	ug/l	99
24) 1,1-Dichloroethane	6.26	63	213687	19.876	ug/l	99
25) 2-Butanone	7.23	43	167475	99.052	ug/l	98
26) 2,2-Dichloropropane	7.20	77	207669	19.697	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	139220	20.302	ug/l	96
28) Bromochloromethane	7.55	49	62631	16.733	ug/l	100
29) Tetrahydrofuran	7.57	42	108554	106.860	ug/l	99
30) Chloroform	7.71	83	232394	21.133	ug/l	98
31) Cyclohexane	7.98	56	209405	19.314	ug/l	96
32) 1,1,1-Trichloroethane	7.90	97	210050	19.948	ug/l	99
36) 1,1-Dichloropropene	8.11	75	172061	19.560	ug/l	99
37) Ethyl Acetate	7.30	43	75989	20.491	ug/l #	90
38) Carbon Tetrachloride	8.10	117	185238	19.680	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.35	83	217096	19.504	ug/l	98
40) Benzene	8.35	78	477281	19.853	ug/l	98
41) Methacrylonitrile	7.53	41	46899	20.121	ug/l	96
42) 1,2-Dichloroethane	8.43	62	144524	20.016	ug/l	100
43) Isopropyl Acetate	8.46	43	153387	20.075	ug/l	99
44) Trichloroethene	9.11	130	142514	19.751	ug/l	98
45) 1,2-Dichloropropane	9.39	63	114863	19.630	ug/l	97
46) Dibromomethane	9.48	93	63721	20.341	ug/l	99
47) Bromodichloromethane	9.66	83	168198	19.933	ug/l	99
48) Methyl methacrylate	9.46	41	72730	19.466	ug/l	97
49) 1,4-Dioxane	9.47	88	16052	426.654	ug/l	99
51) 4-Methyl-2-Pentanone	10.23	43	377006	102.892	ug/l	99
52) Toluene	10.40	92	311417	19.699	ug/l	98
53) t-1,3-Dichloropropene	10.62	75	163028	19.285	ug/l	98
54) cis-1,3-Dichloropropene	10.09	75	195039	19.771	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	85303	20.073	ug/l	99
56) Ethyl methacrylate	10.66	69	118909	20.002	ug/l	96
57) 1,3-Dichloropropane	10.95	76	152593	20.589	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.94	63	235166	97.658	ug/l	99
59) 2-Hexanone	10.99	43	262421	100.668	ug/l	99
60) Dibromochloromethane	11.14	129	118716	20.020	ug/l	99
61) 1,2-Dibromoethane	11.25	107	88508	20.794	ug/l	99
64) Tetrachloroethene	10.88	164	125629	19.850	ug/l	97
65) Chlorobenzene	11.67	112	327970	19.599	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.75	131	125080	19.658	ug/l	100
67) Ethyl Benzene	11.75	91	608621	20.107	ug/l	100
68) m/p-Xylenes	11.86	106	453077	39.052	ug/l	100
69) o-Xylene	12.18	106	208815	19.406	ug/l	99
70) Styrene	12.20	104	365625	19.466	ug/l	100
71) Bromoform	12.37	173	75754	20.920	ug/l #	100
73) Isopropylbenzene	12.48	105	586271	20.015	ug/l	99
74) N-amyl acetate	12.29	43	138690	20.051	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	94389	21.386	ug/l	99
76) 1,2,3-Trichloropropane	12.78	75	68917m	21.441	ug/l	
77) Bromobenzene	12.77	156	141811	19.928	ug/l	99
78) n-propylbenzene	12.83	91	668772	19.984	ug/l	99
79) 2-Chlorotoluene	12.91	91	368247	19.490	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	468654	19.472	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	31236	19.303	ug/l	96
82) 4-Chlorotoluene	13.01	91	390333	19.807	ug/l	100
83) tert-Butylbenzene	13.23	119	419219	19.753	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	464985	19.569	ug/l	100
85) sec-Butylbenzene	13.41	105	564385	19.800	ug/l	99
86) p-Isopropyltoluene	13.52	119	533838	19.699	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	260352	19.710	ug/l	100
88) 1,4-Dichlorobenzene	13.60	146	257442	19.969	ug/l	98
89) n-Butylbenzene	13.85	91	483951	19.767	ug/l	99
90) Hexachloroethane	14.12	117	94918	18.953	ug/l	98
91) 1,2-Dichlorobenzene	13.90	146	227269	20.327	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	16177	20.500	ug/l	97

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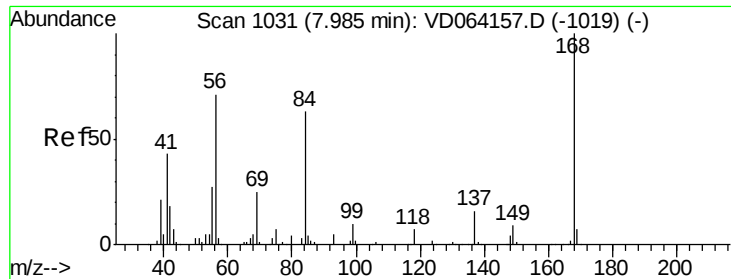
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	174285	20.207	ug/l	99
94) Hexachlorobutadiene	15.27	225	111892	20.085	ug/l	99
95) Naphthalene	15.41	128	299096	21.155	ug/l	100
96) 1,2,3-Trichlorobenzene	15.60	180	146157	19.936	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBSD01

Tot Ion:168 Resp: 671692

Ion Ratio Lower Upper

168 100

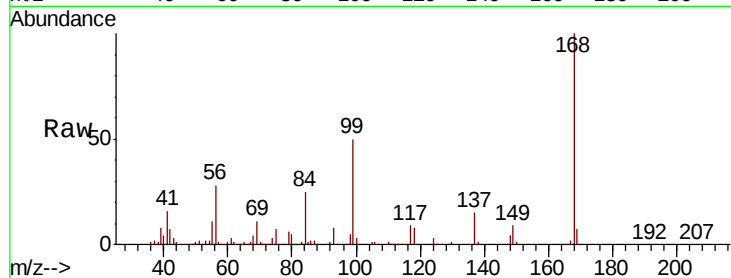
99 49.5 41.6 62.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

300000

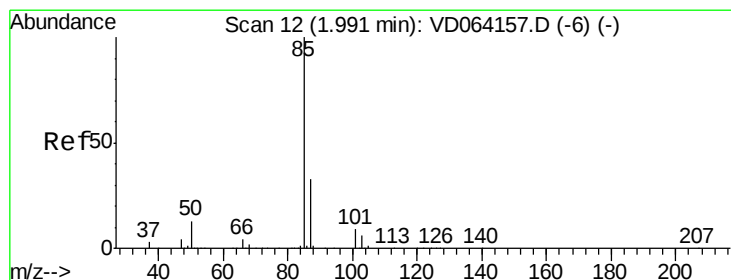
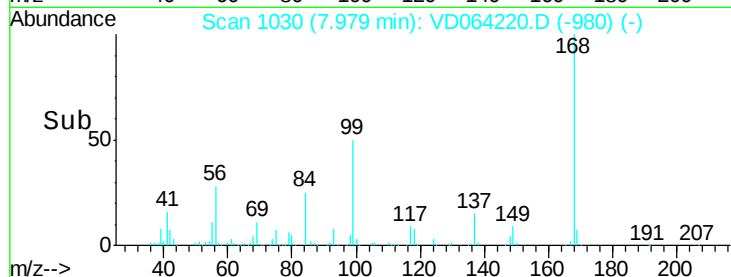
200000

100000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.417 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064220.D

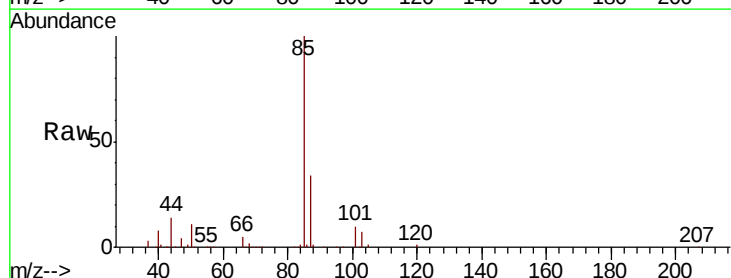
Acq: 15 Nov 2019 11:45

Tgt Ion: 85 Resp: 108169

Ion Ratio Lower Upper

85 100

87 33.8 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

80000

60000

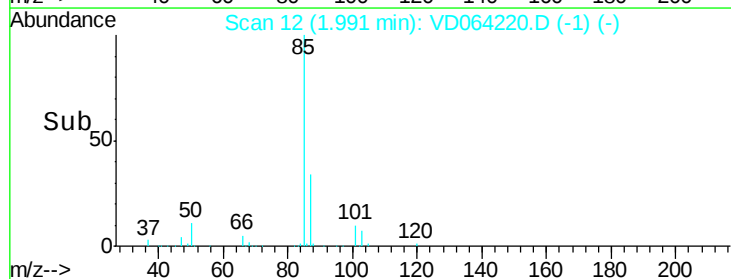
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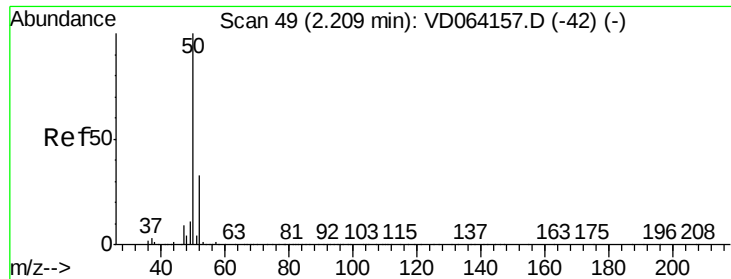
20000

0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 21.132 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 50 Resp: 126274

Ion Ratio Lower Upper

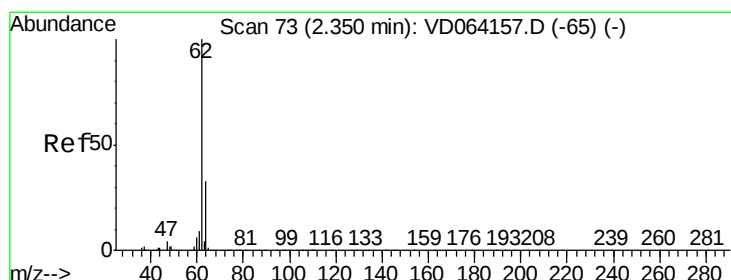
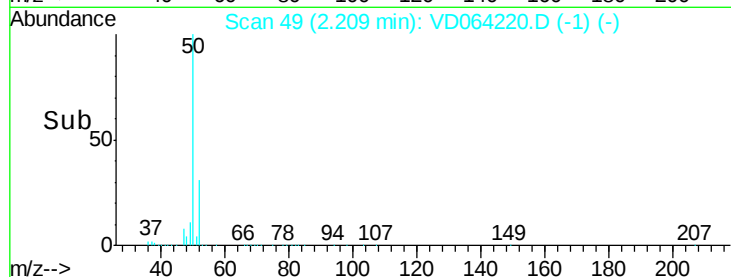
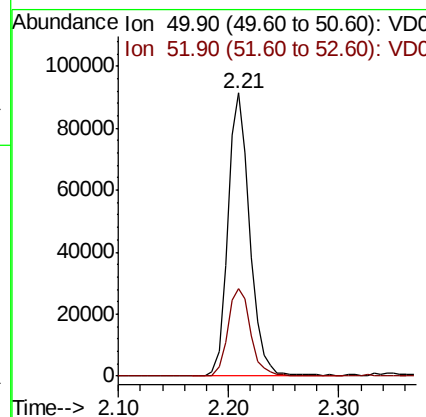
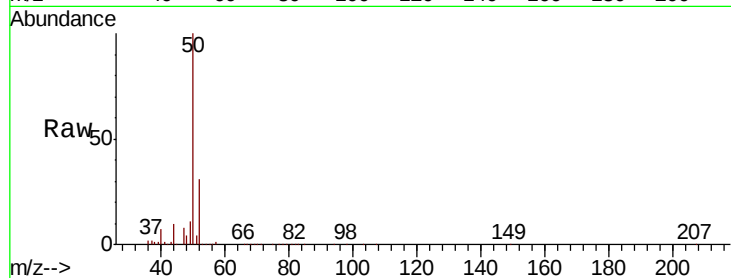
50 100

52 31.1 26.2 39.4

Manual Integrations
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11/19/2019 12:23:16 PM



#4

Vinyl Chloride

Concen: 22.853 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD064220.D

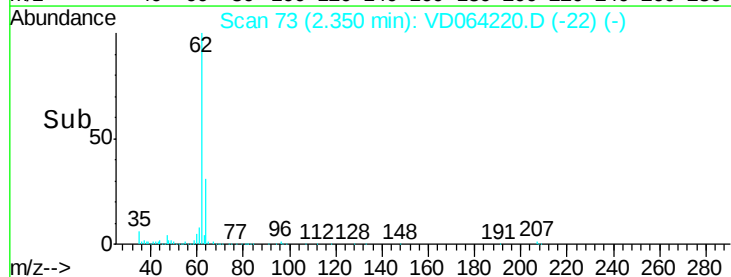
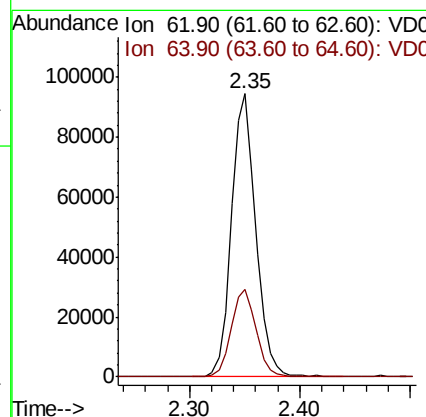
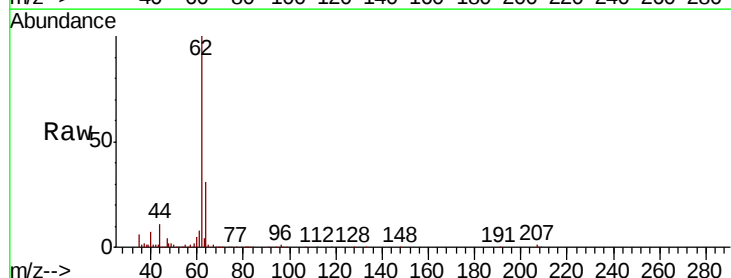
Acq: 15 Nov 2019 11:45

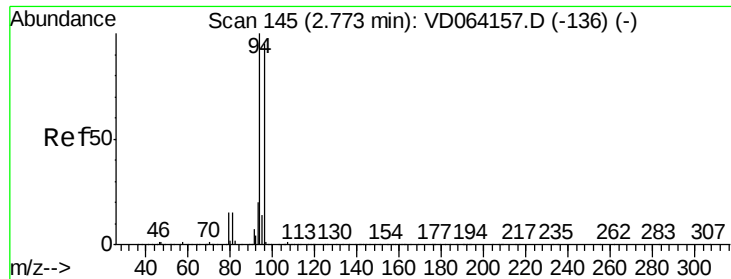
Tgt Ion: 62 Resp: 146029

Ion Ratio Lower Upper

62 100

64 31.0 26.2 39.2





#5

Bromomethane

Concen: 23.309 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.02 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 94 Resp: 94049

Ion Ratio Lower Upper

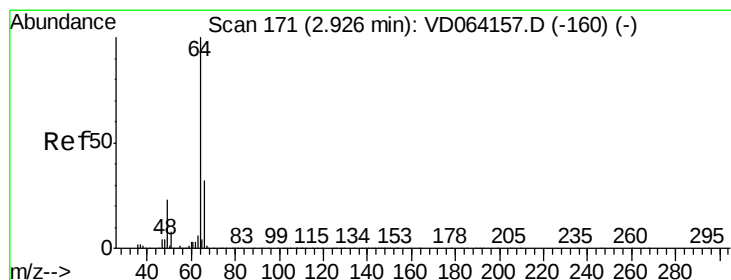
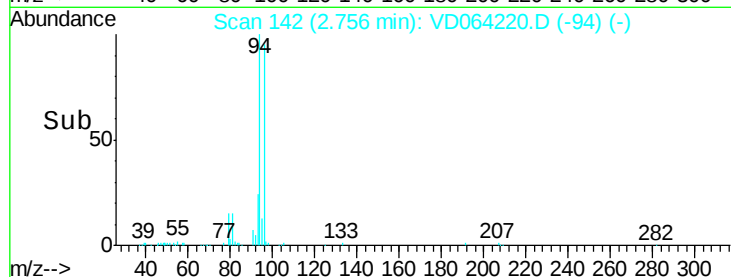
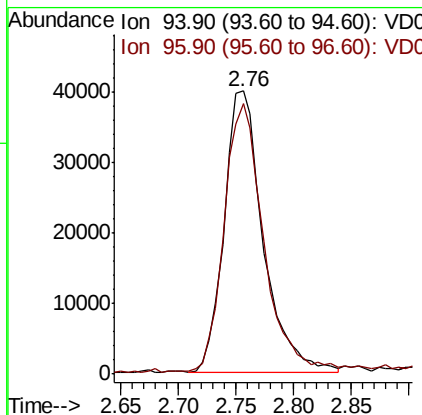
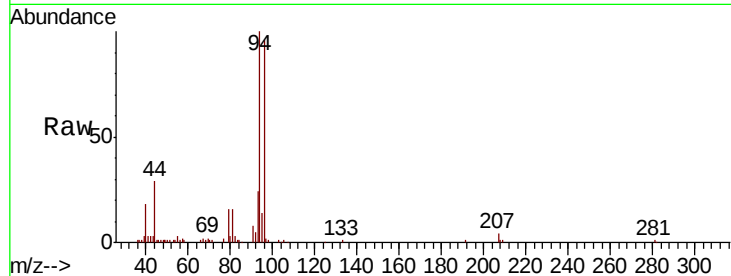
94 100

96 95.0 76.2 114.4

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#6

Chloroethane

Concen: 23.308 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.01 min

Lab File: VD064220.D

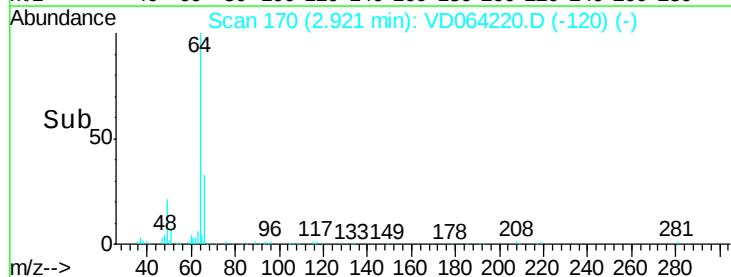
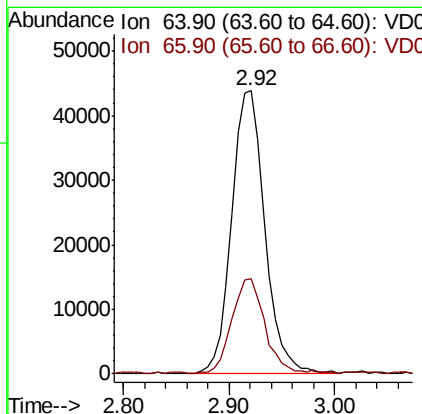
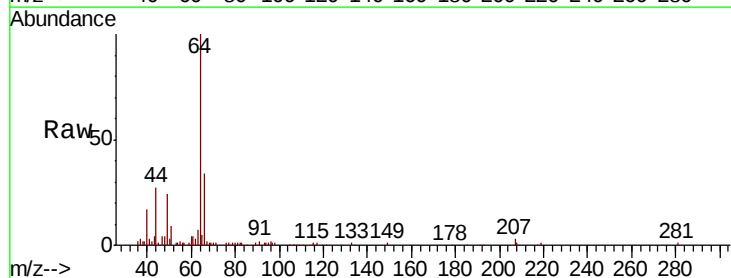
Acq: 15 Nov 2019 11:45

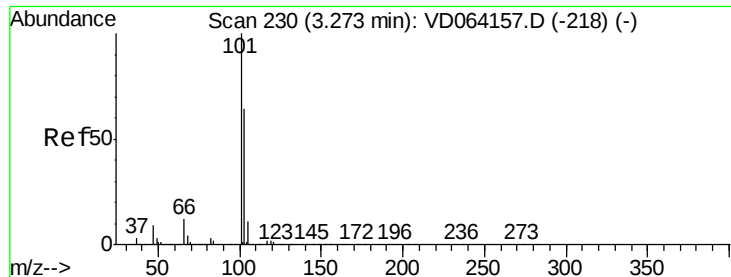
Tgt Ion: 64 Resp: 95169

Ion Ratio Lower Upper

64 100

66 33.8 25.5 38.3





#7

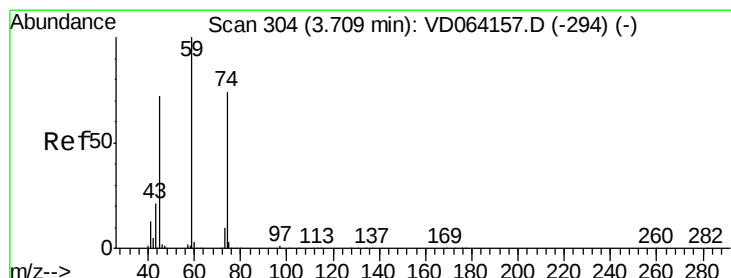
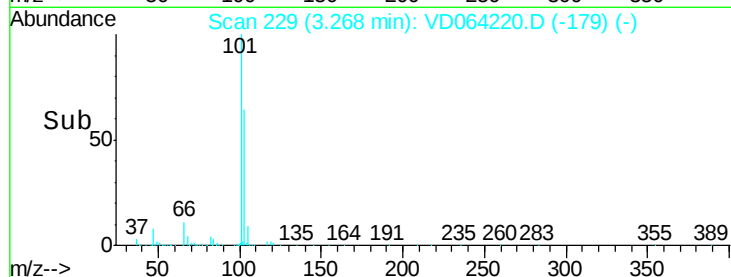
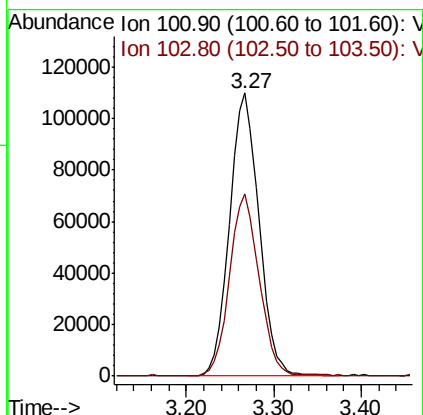
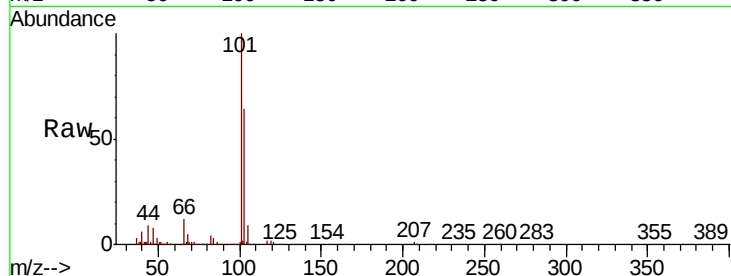
Trichlorofluoromethane
 Concen: 24.240 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. -0.01 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

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 VD1115SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	50.8	76.2

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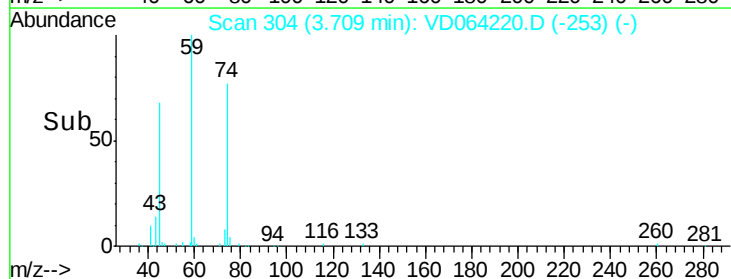
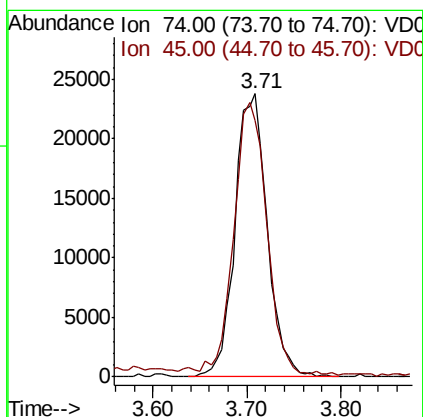
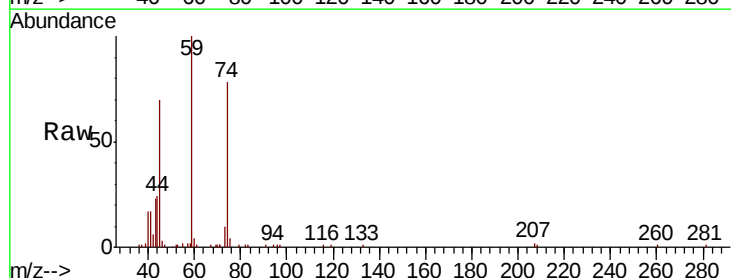
MMDADODA
 11/19/2019 12:23:16 PM

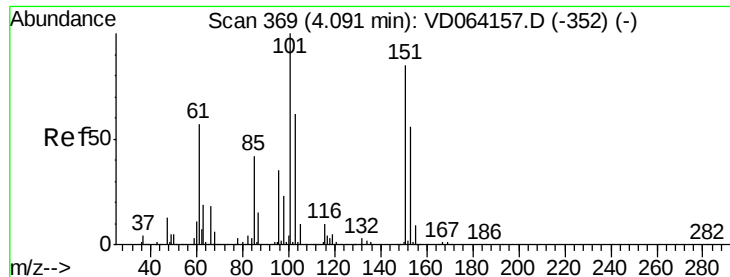


#8

Diethyl Ether
 Concen: 19.875 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.1	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.912 ug/l

RT: 4.08 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

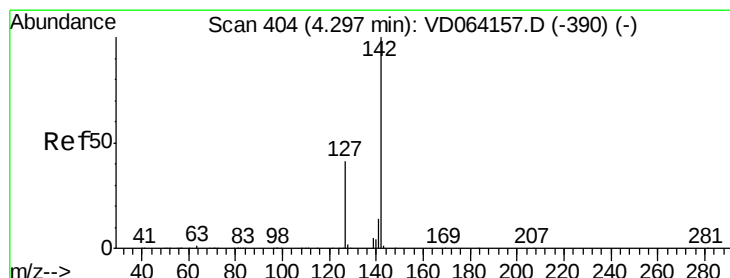
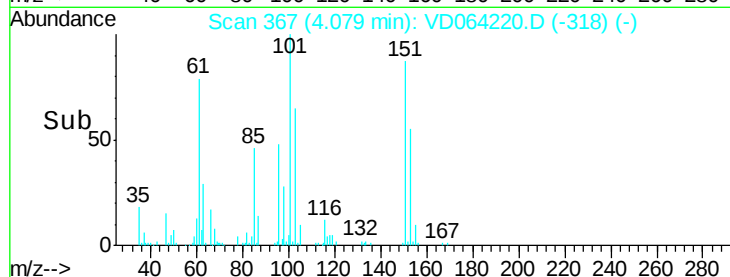
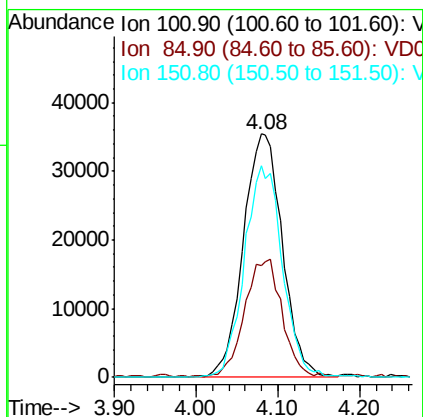
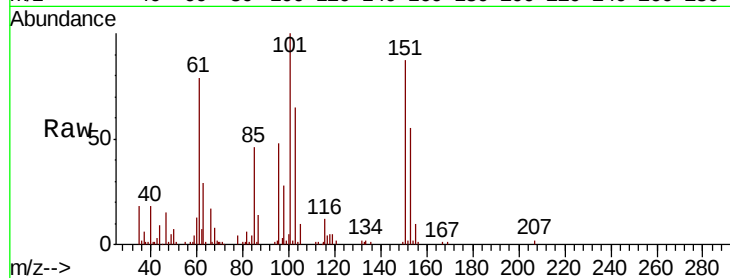
ClientSampleId :

VD1115SBSD01

Tot Ion:	101	Resp:	117905
Ion Ratio	Lower	Upper	
101	100		
85	46.4	34.4	51.6
151	84.6	68.1	102.1

Manual Integrations
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#10

Methyl Iodide

Concen: 18.893 ug/l

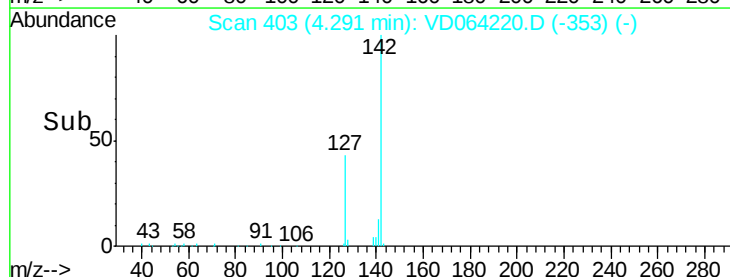
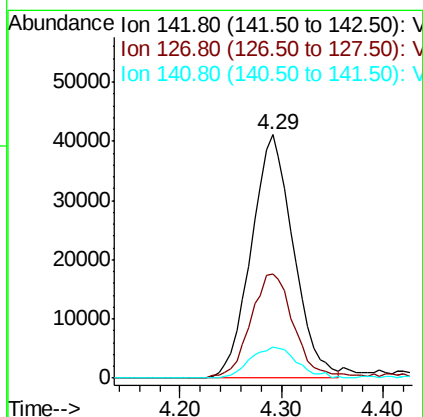
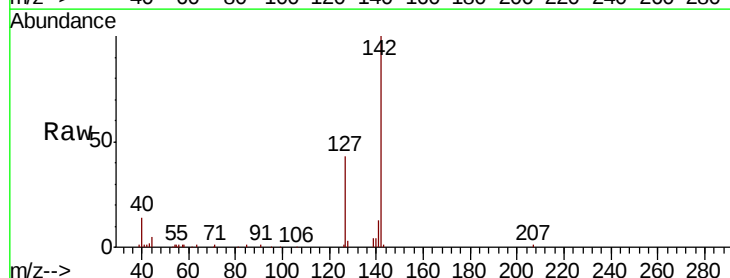
RT: 4.29 min Scan# 403

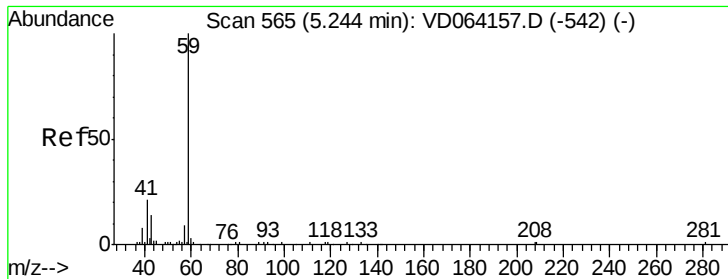
Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion:	142	Resp:	118803
Ion Ratio	Lower	Upper	
142	100		
127	43.9	34.4	51.6
141	14.2	11.2	16.8





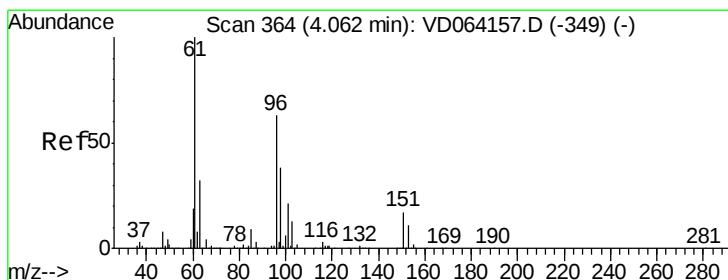
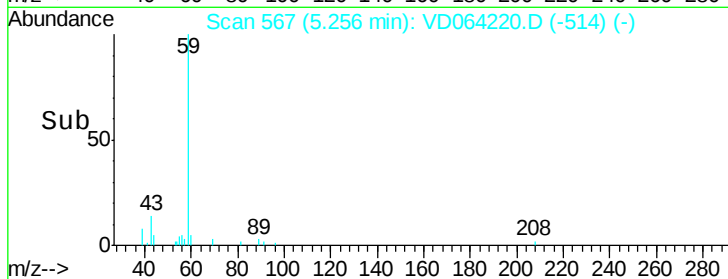
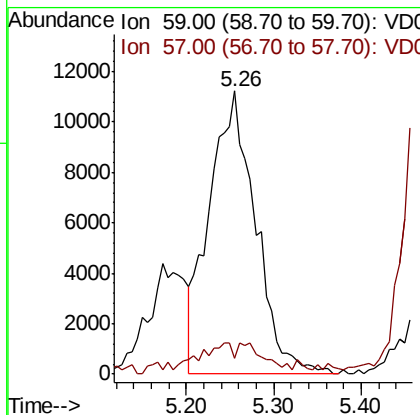
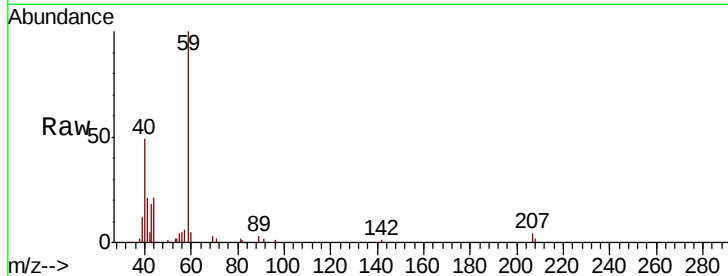
#11
Tert butyl alcohol
Concen: 106.053 ug/l
RT: 5.26 min Scan# 567
Delta R.T. 0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.4	9.4	14.2#

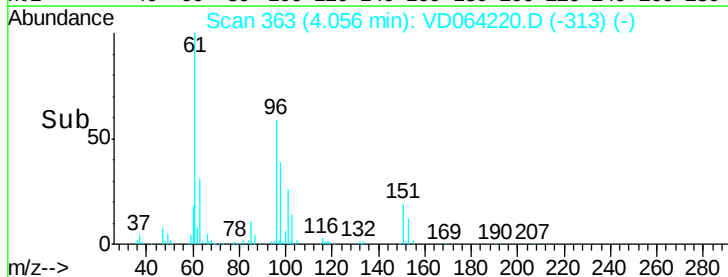
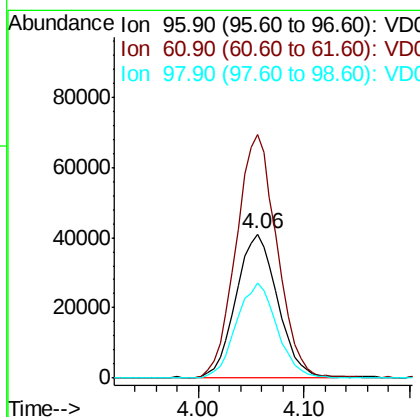
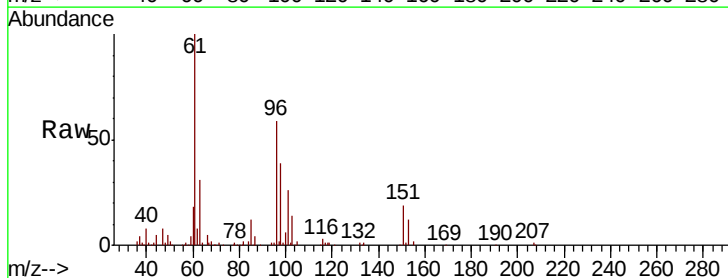
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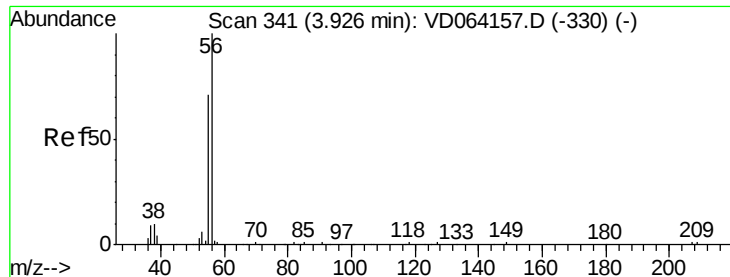
MMDADODA
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#12
1,1-Dichloroethene
Concen: 19.916 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.3	127.4	191.2
98	66.1	48.1	72.1





#13

Acrolein

Concen: 83.510 ug/l

RT: 3.93 min Scan# 341

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 56 Resp: 27259

Ion Ratio Lower Upper

56 100

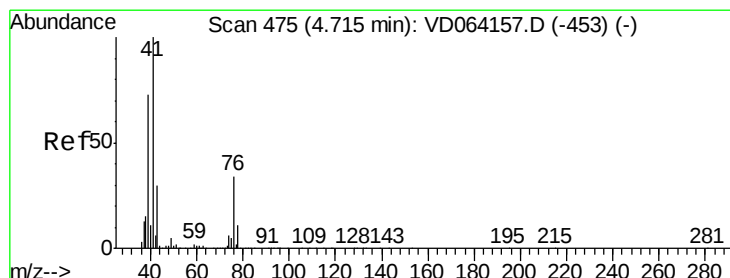
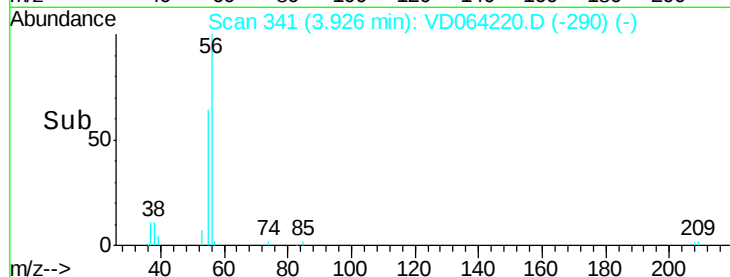
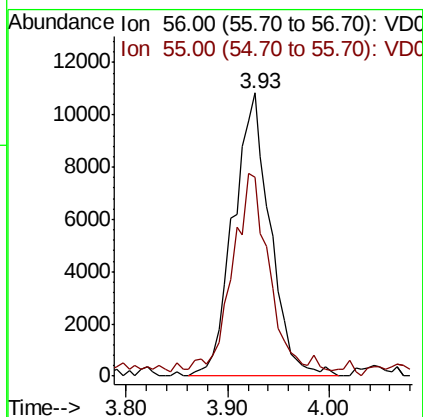
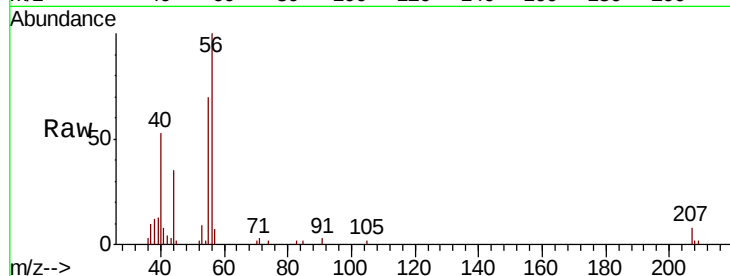
55 68.4 56.1 84.1

Manual Integrations

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#14

Allyl chloride

Concen: 19.049 ug/l

RT: 4.70 min Scan# 473

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

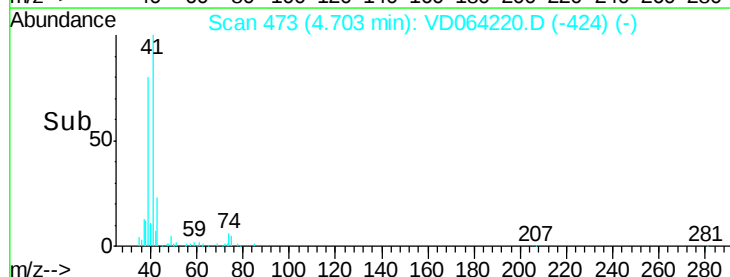
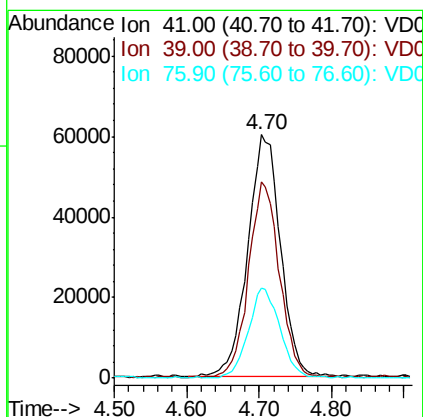
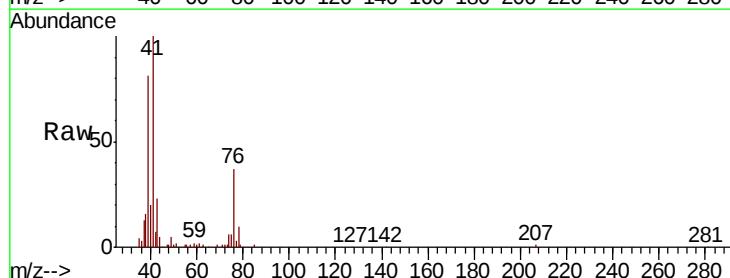
Tgt Ion: 41 Resp: 190097

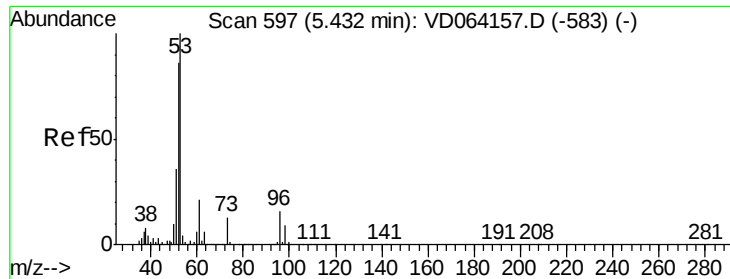
Ion Ratio Lower Upper

41 100

39 75.7 57.5 86.3

76 35.8 26.8 40.2





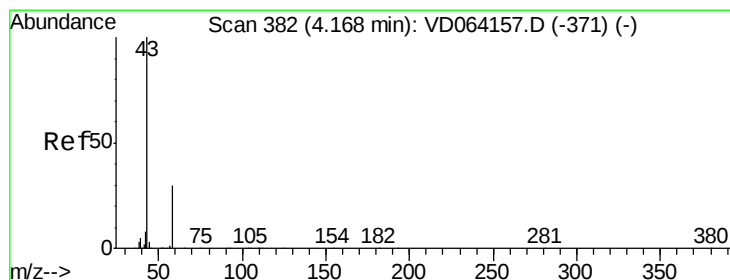
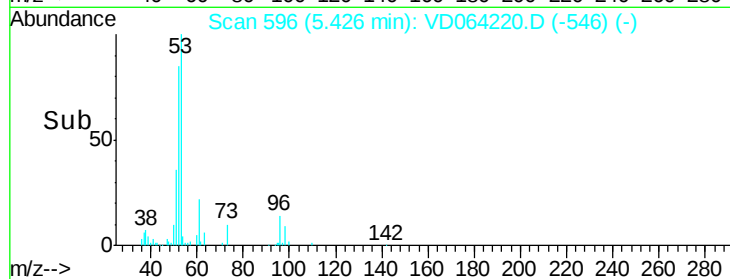
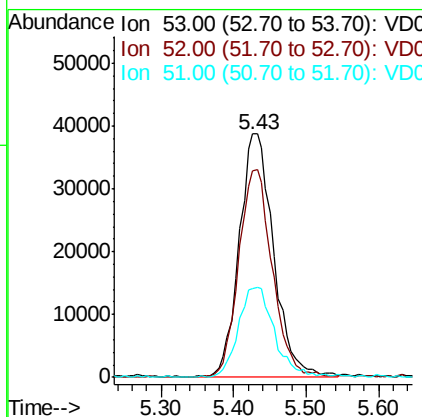
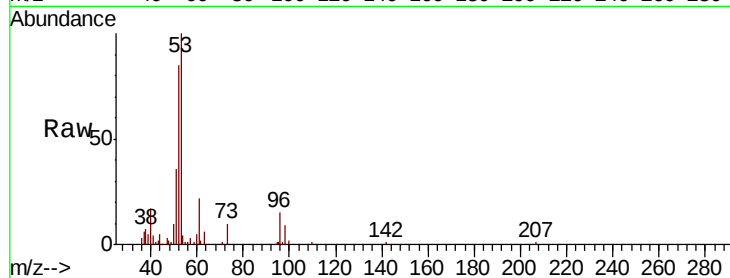
#15
 Acrylonitrile
 Concen: 105.275 ug/l
 RT: 5.43 min Scan# 596
 Delta R.T. -0.01 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.7	100.1
51	38.8	30.6	46.0

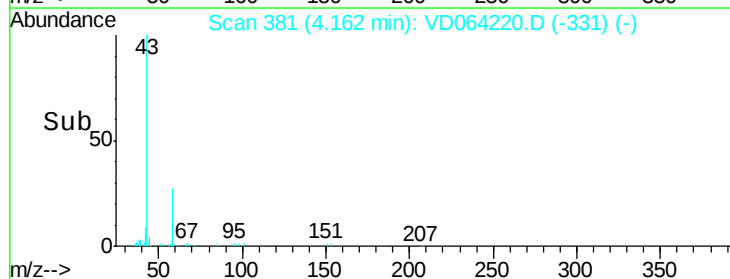
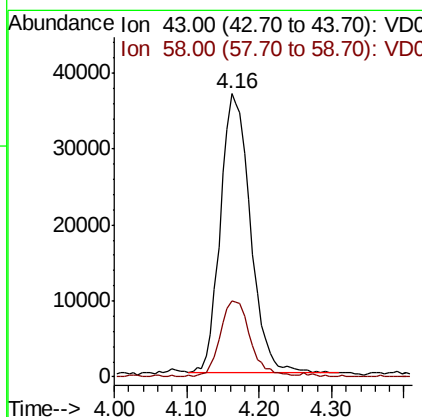
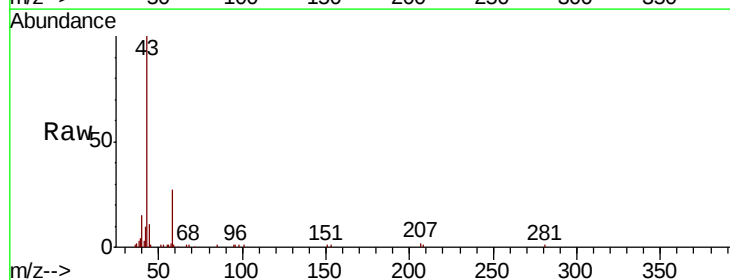
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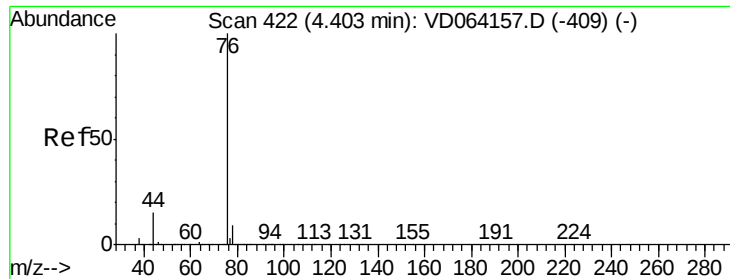
MMDADODA
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#16
 Acetone
 Concen: 80.877 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.1	24.1	36.1





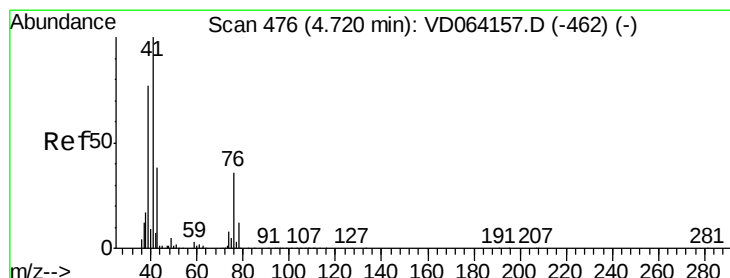
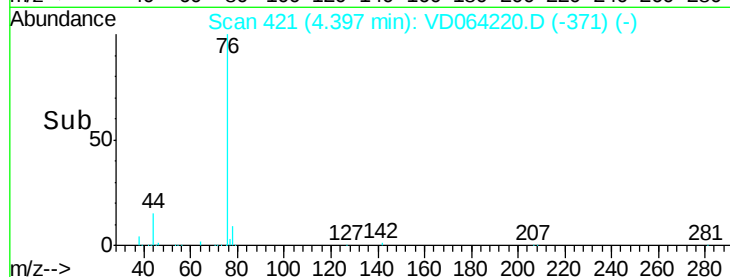
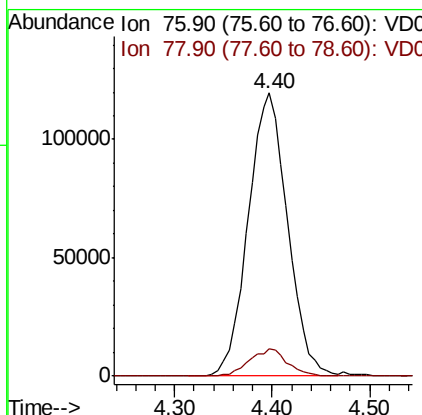
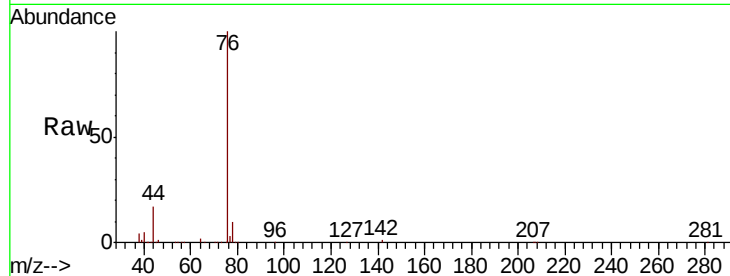
#17
Carbon Disulfide
Concen: 19.136 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.2	10.8

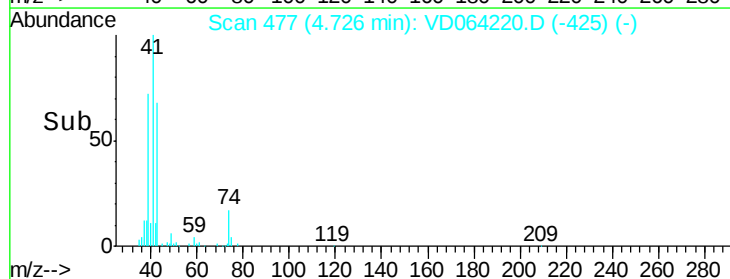
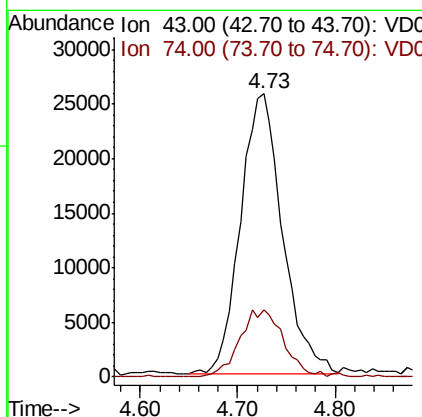
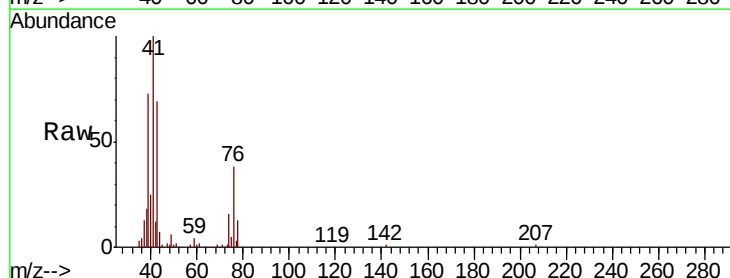
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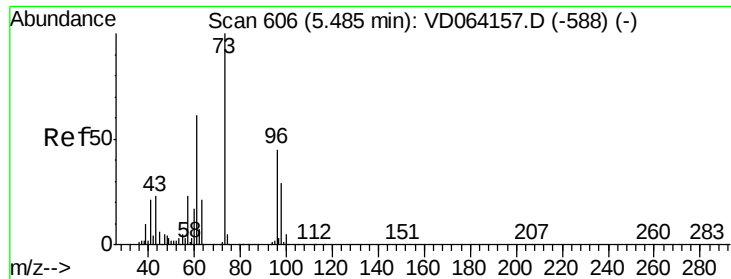
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#18
Methyl Acetate
Concen: 21.001 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.1	18.4	27.6





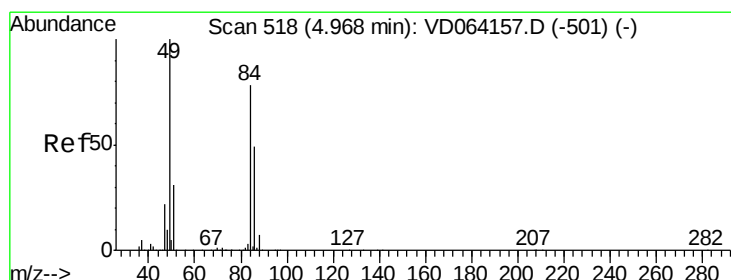
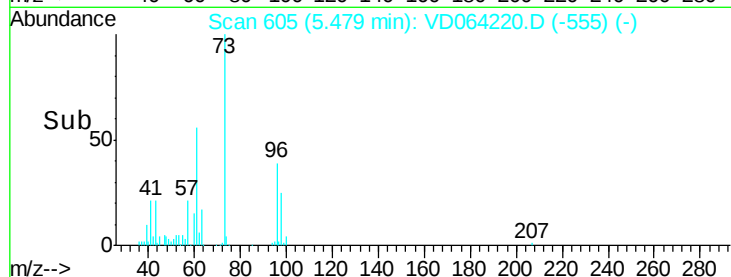
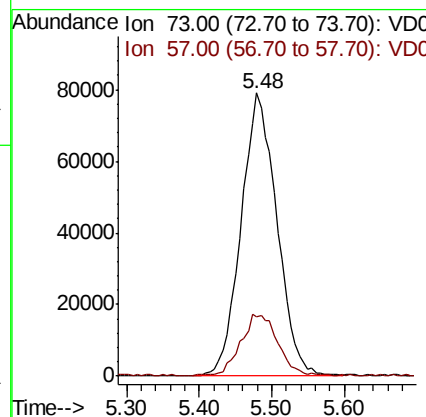
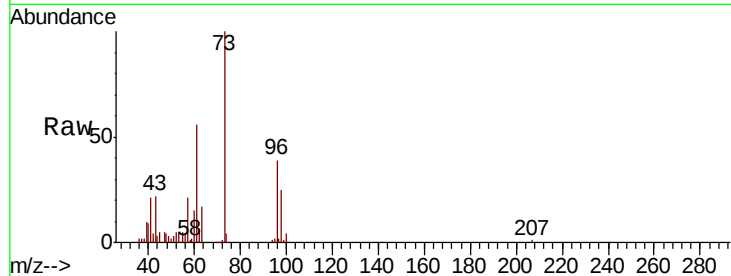
#19
Methvl tert-butvl Ether
Concen: 20.071 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.8	18.4	27.6

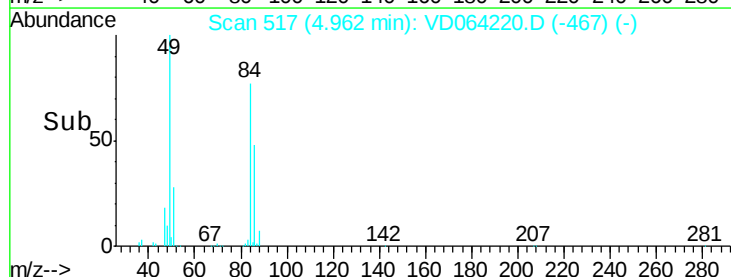
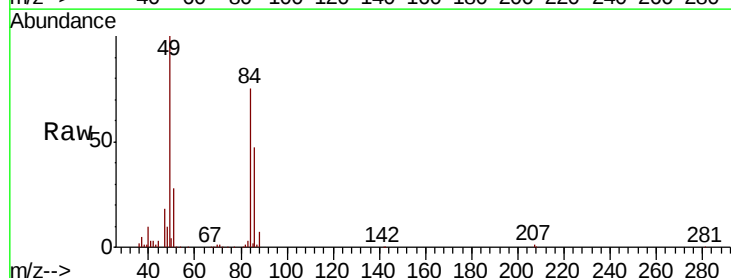
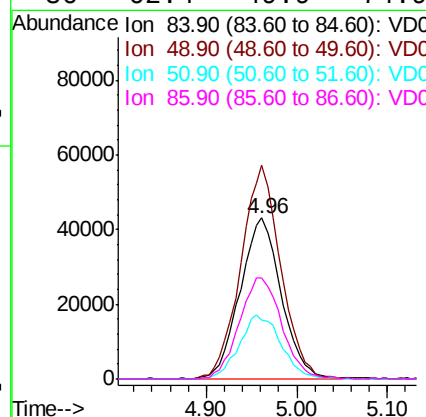
Manual Integrations
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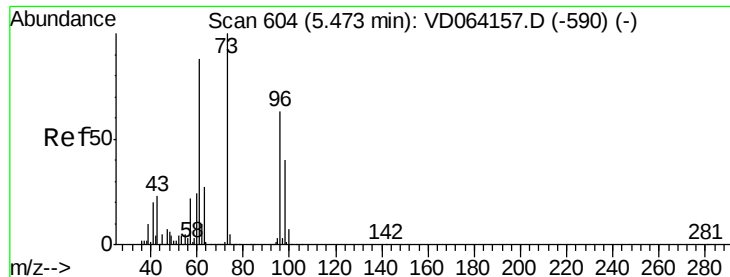
MMDADODA
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#20
Methylene Chloride
Concen: 20.531 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
84	100		
49	132.5	102.1	153.1
51	36.7	32.2	48.2
86	62.4	49.9	74.9





#21

trans-1,2-Dichloroethene

Concen: 19.847 ug/l

RT: 5.46 min Scan# 602

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 96 Resp: 126910

Ion Ratio Lower Upper

96 100

61 128.0 111.8 167.6

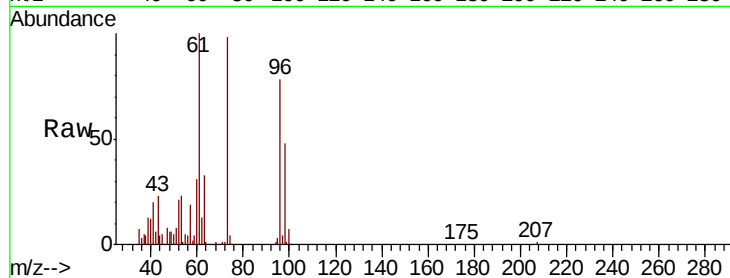
98 61.0 50.3 75.5

Manual Integrations

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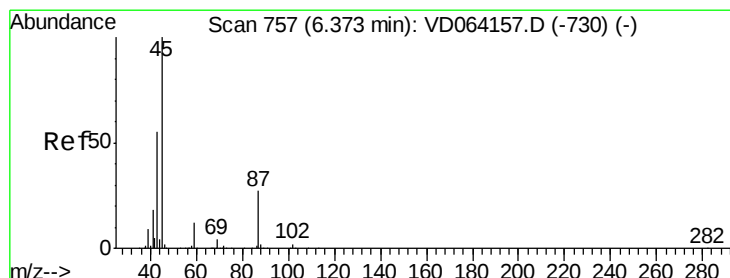
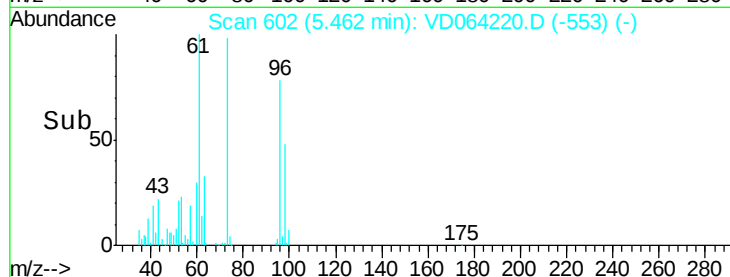
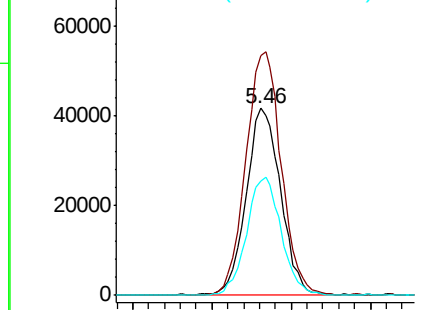
11/19/2019 12:23:16 PM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 19.473 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion: 45 Resp: 360554

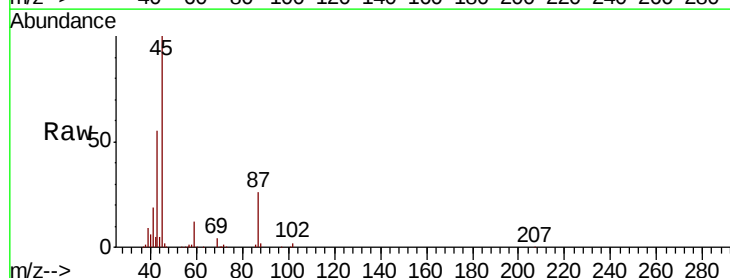
Ion Ratio Lower Upper

45 100

43 54.3 44.4 66.6

87 25.9 21.9 32.9

59 11.6 9.4 14.2

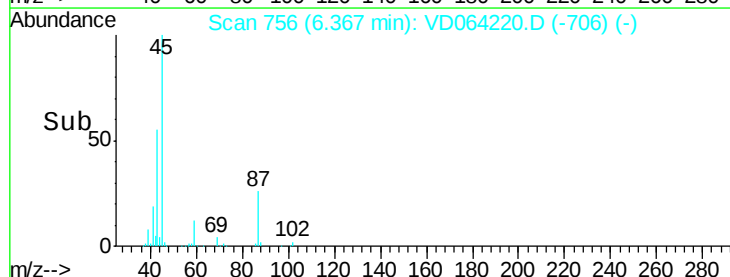
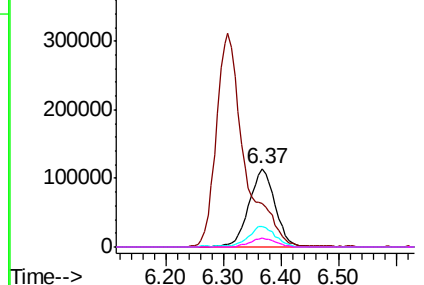


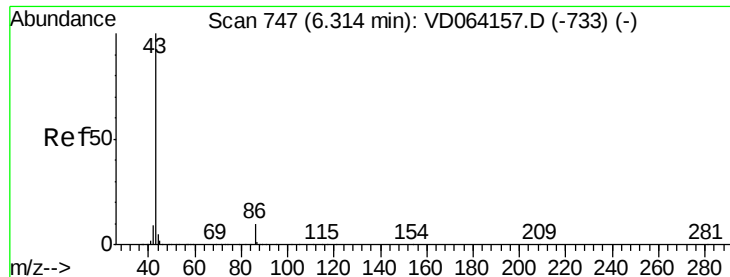
Abundance Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 102.178 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 43 Resp: 1054590

Ion Ratio Lower Upper

43 100

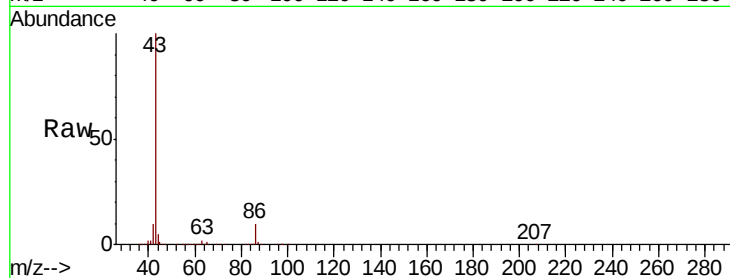
86 10.4 8.2 12.2

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Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

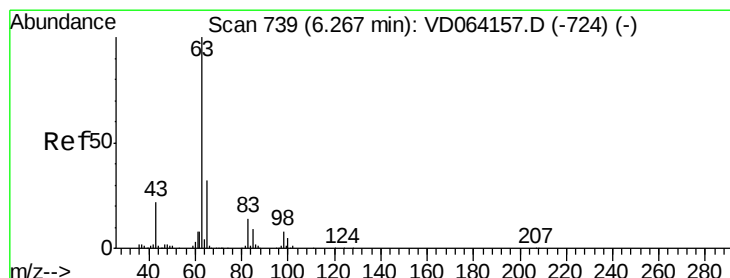
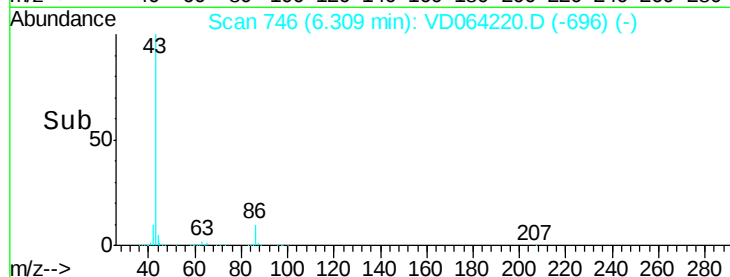
300000

200000

100000

0

Time--> 6.10 6.20 6.30 6.40 6.50



#24

1,1-Dichloroethane

Concen: 19.876 ug/l

RT: 6.26 min Scan# 738

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

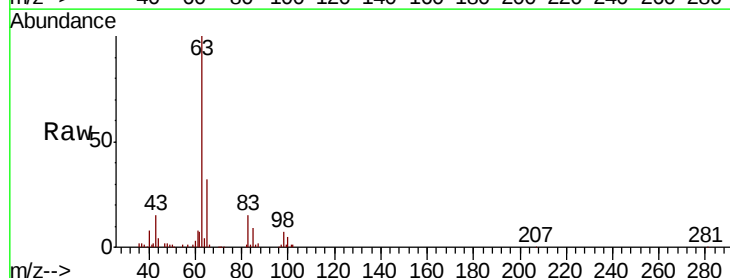
Tgt Ion: 63 Resp: 213687

Ion Ratio Lower Upper

63 100

98 7.0 3.8 11.4

100 4.6 2.4 7.2



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.26

80000

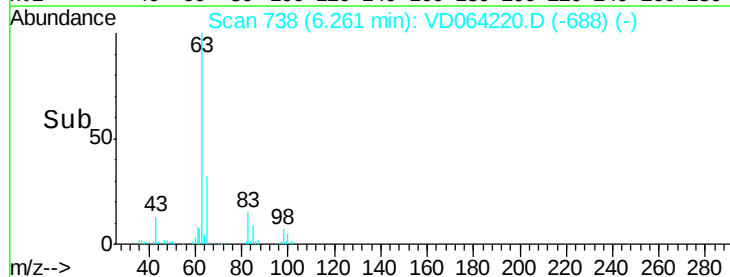
60000

40000

20000

0

Time--> 6.10 6.20 6.30 6.40





#25

2-Butanone

Concen: 99.052 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 43 Resp: 167475

Ion Ratio Lower Upper

43 100

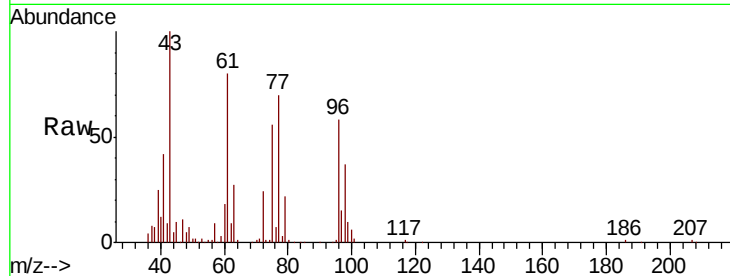
72 24.6 20.6 30.8

Manual Integrations

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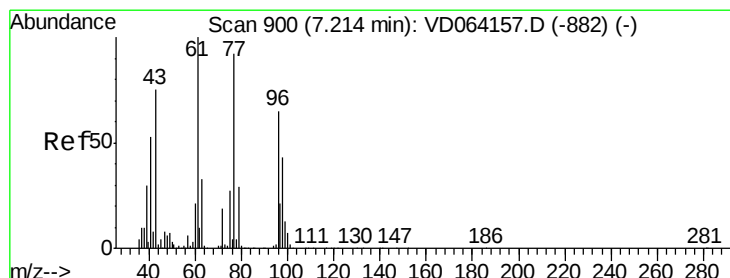
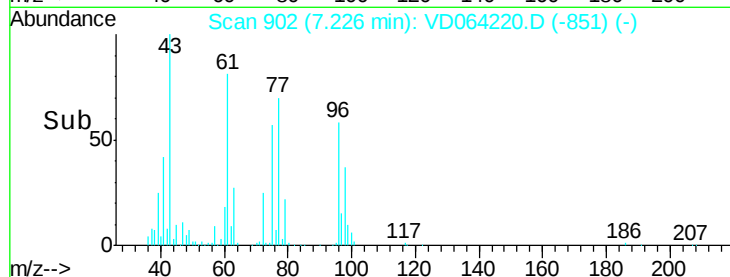
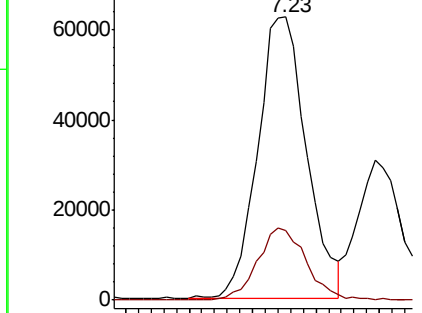
MMDADODA

11/19/2019 12:23:16 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.697 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD064220.D

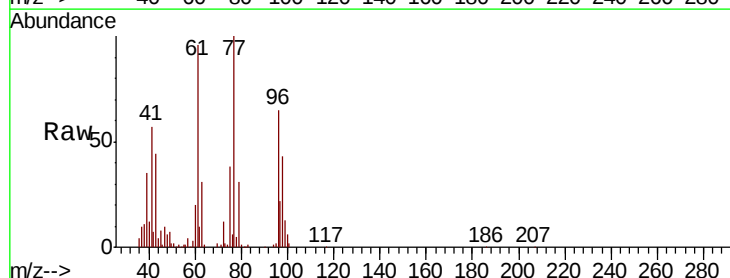
Acq: 15 Nov 2019 11:45

Tgt Ion: 77 Resp: 207669

Ion Ratio Lower Upper

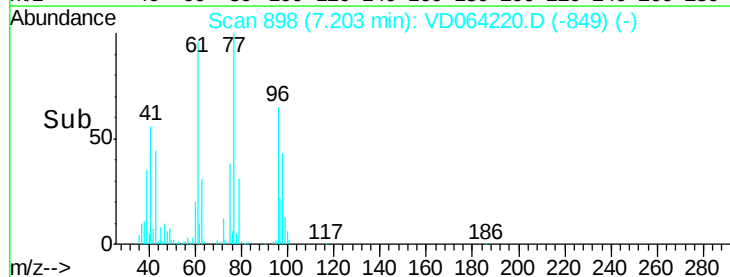
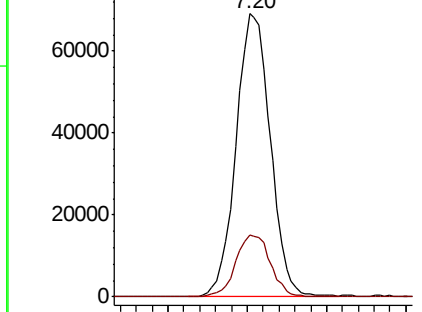
77 100

97 22.0 11.1 33.3



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

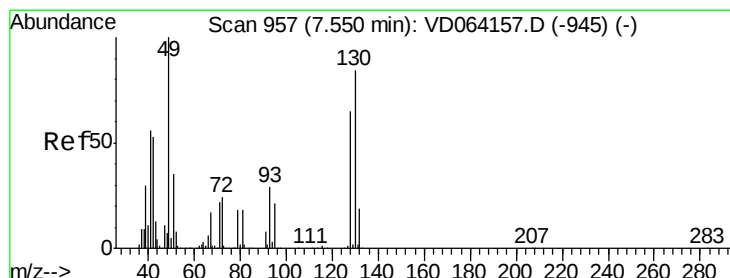
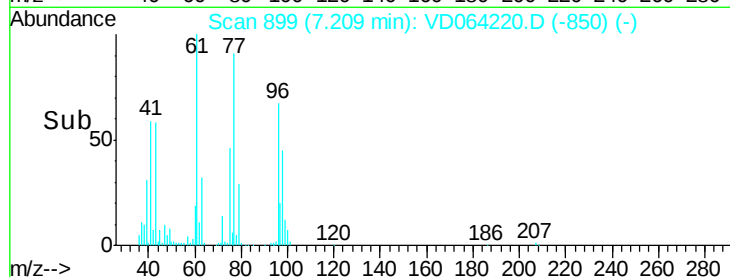
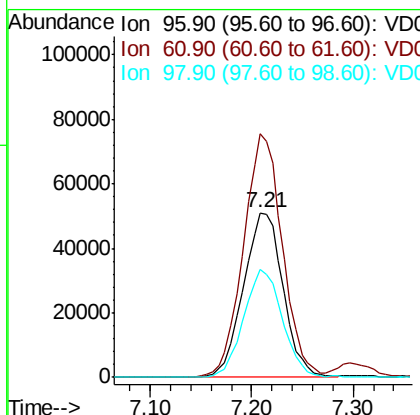
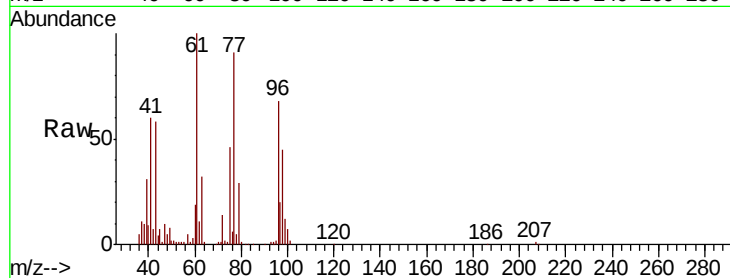
cis-1,2-Dichloroethene
Concen: 20.302 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.6	0.0	301.4
98	64.2	0.0	133.2

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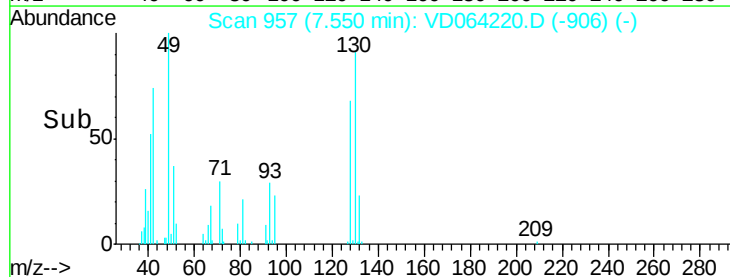
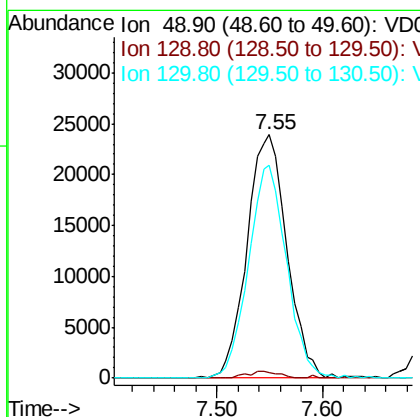
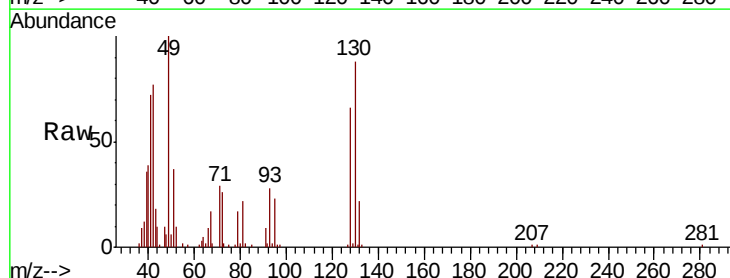
MMDADODA
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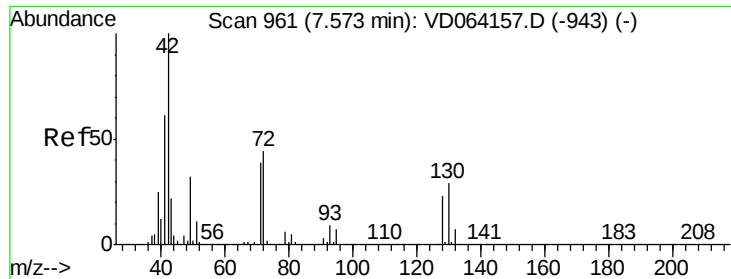


#28

Bromochloromethane
Concen: 16.733 ug/l
RT: 7.55 min Scan# 957
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	83.7	66.8	100.2





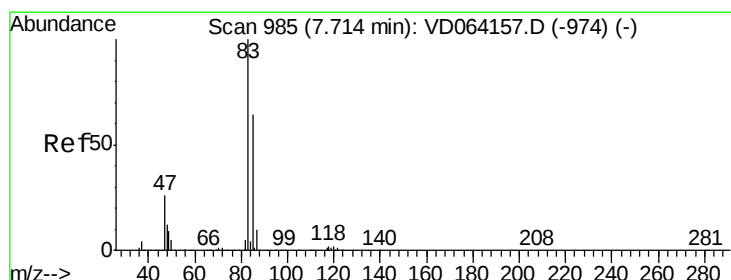
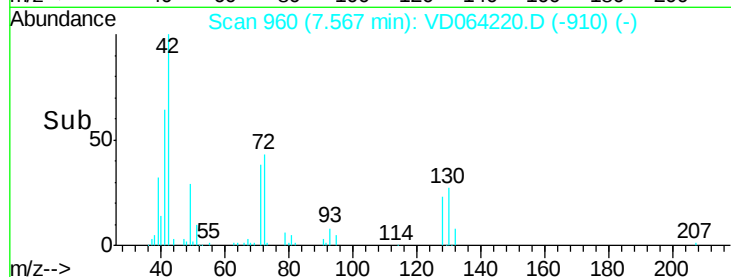
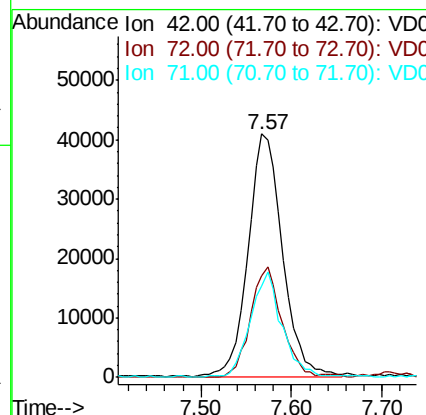
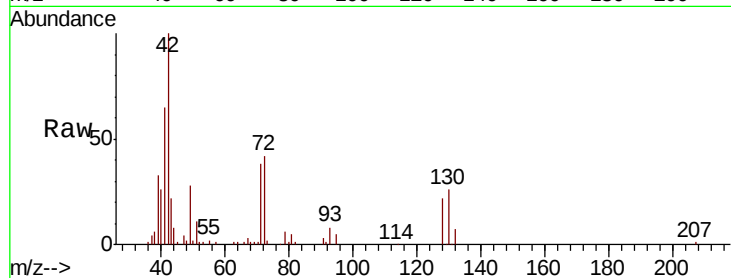
#29
Tetrahydrofuran
Concen: 106.860 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.2	33.4	50.2
71	39.6	31.0	46.4

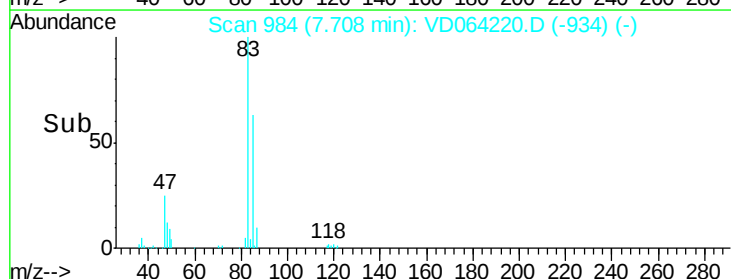
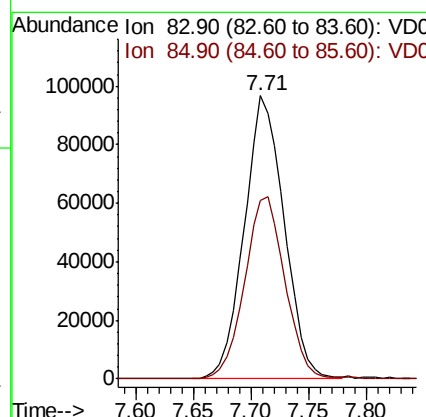
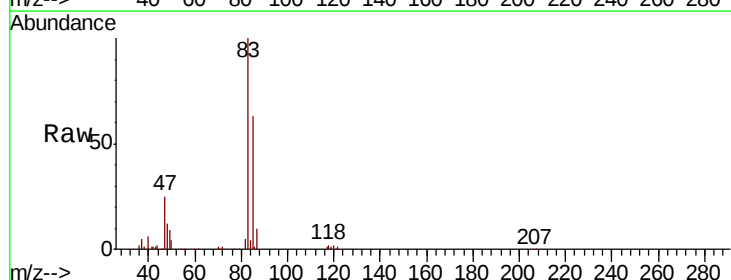
Manual Integrations
APPROVED

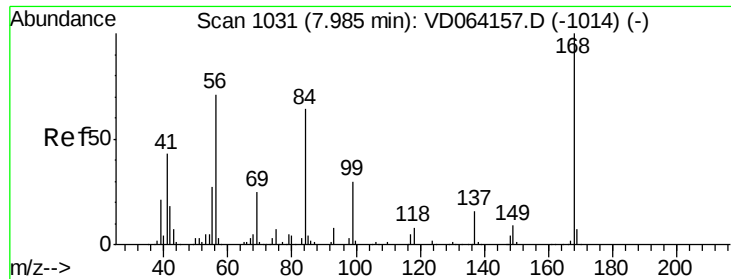
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#30
Chloroform
Concen: 21.133 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.4	77.0





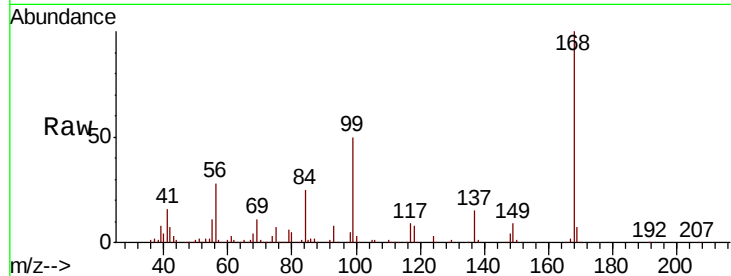
#31
Cyclohexane
Concen: 19.314 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

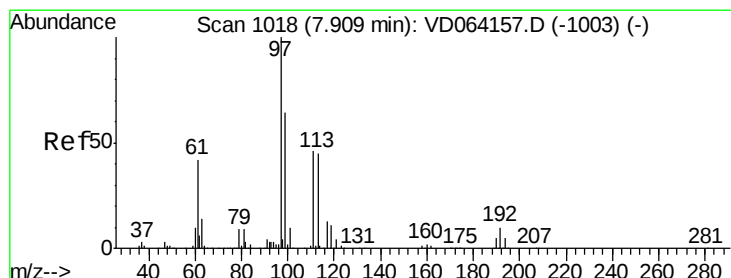
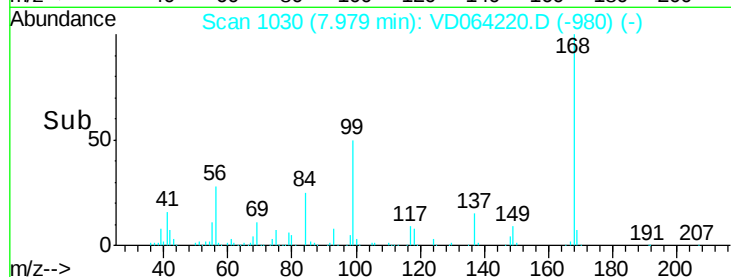
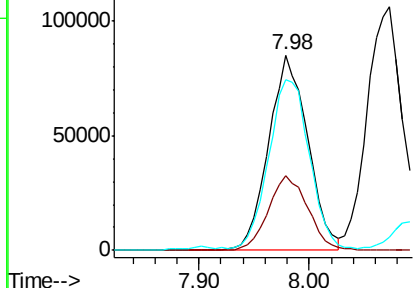
Tot Ion	Ratio	Lower	Upper
56	100		
69	37.9	28.2	42.4
84	86.6	71.8	107.6

Manual Integrations
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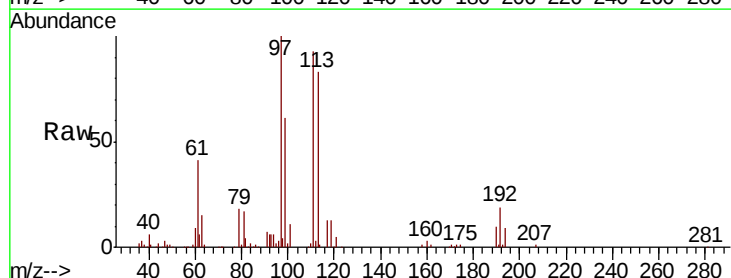


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

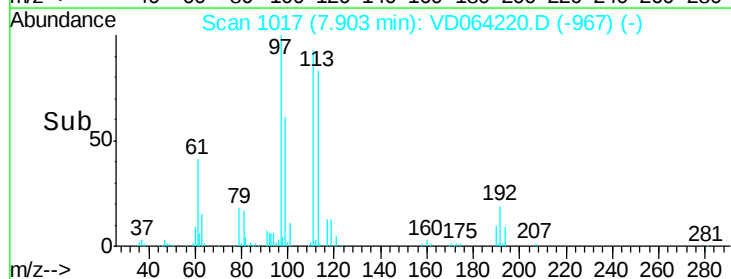
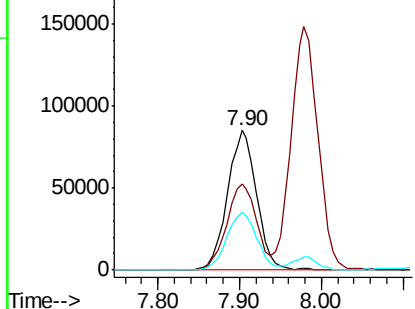


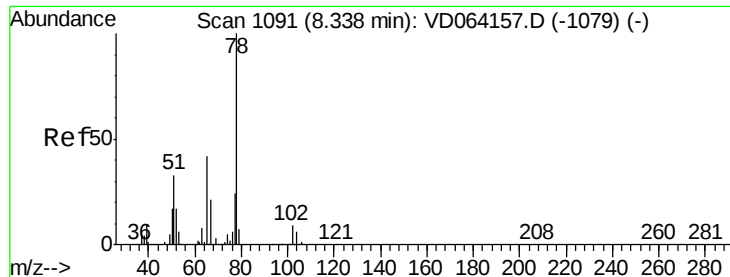
#32
1,1,1-Trichloroethane
Concen: 19.948 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.6	77.4
61	43.1	34.2	51.2



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 49.073 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 65 Resp: 271092

Ion Ratio Lower Upper

65 100

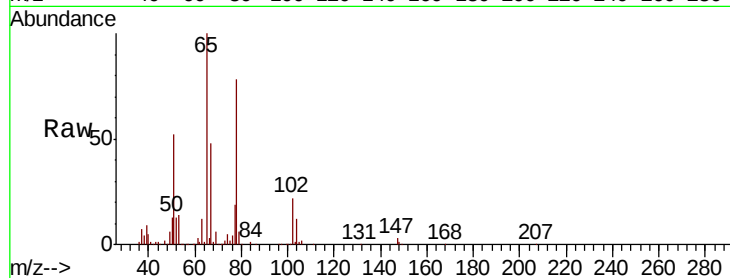
67 51.5 0.0 104.4

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

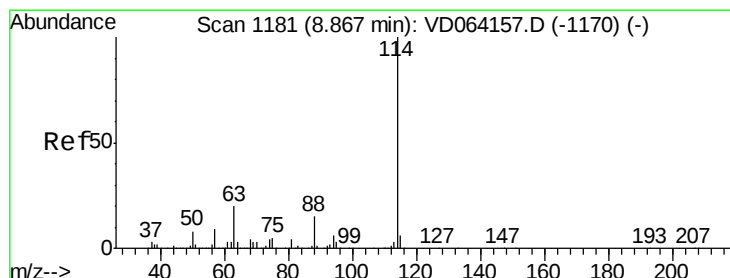
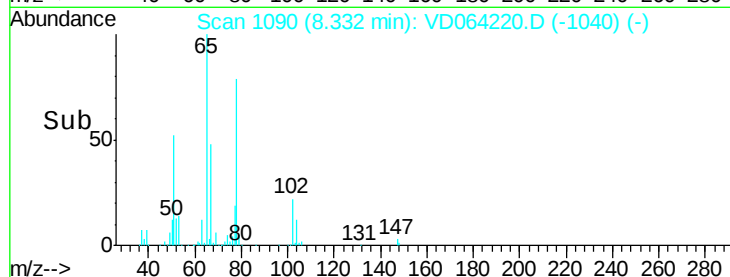
100000

50000

0

Time-->

8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

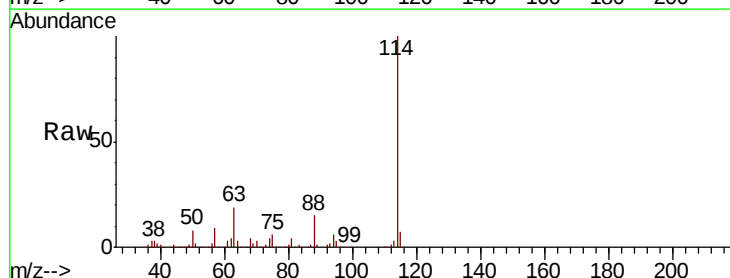
Tgt Ion: 114 Resp: 953123

Ion Ratio Lower Upper

114 100

63 18.8 0.0 40.0

88 14.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

300000

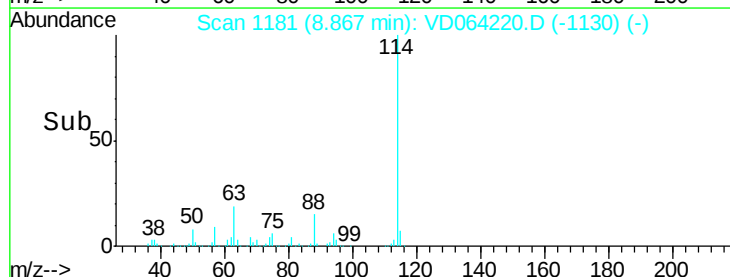
200000

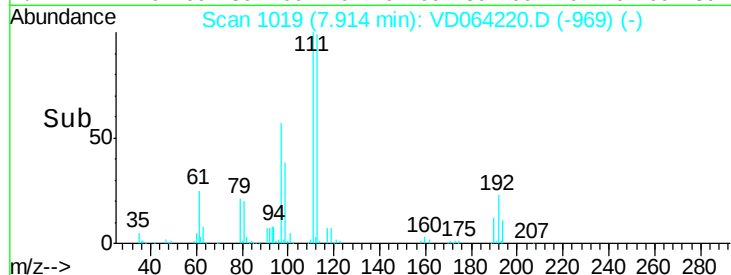
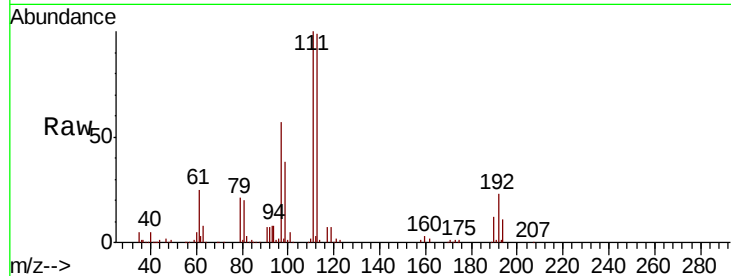
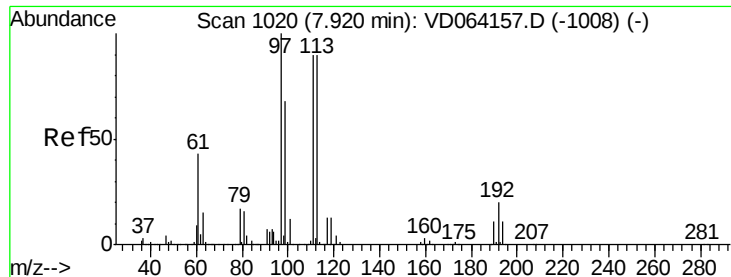
100000

0

Time-->

8.80 8.90 9.00





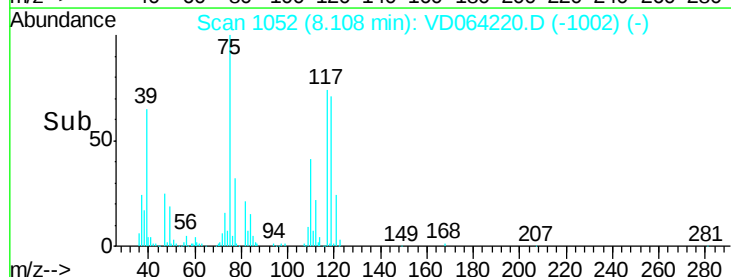
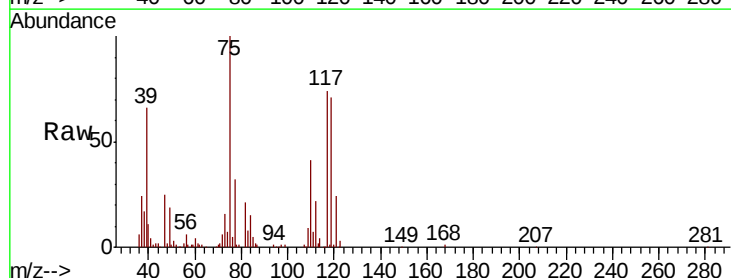
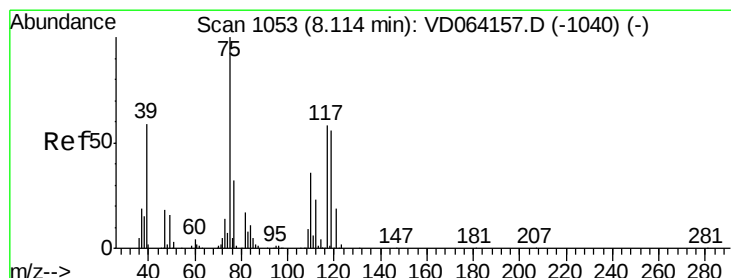
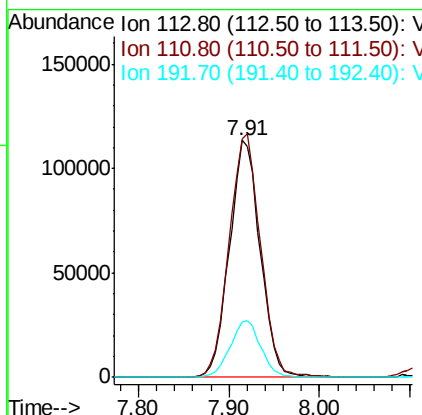
#35
Dibromofluoromethane
Concen: 48.975 ug/l
RT: 7.91 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tot Ion	Ratio	Resp	Lower	Upper
113	100	267949		
111	104.7		81.5	122.3
192	23.9		18.8	28.2

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

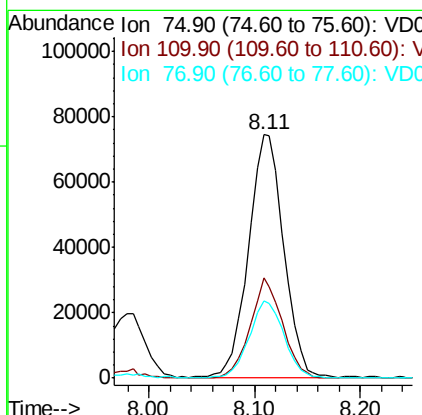
Manual Integrations
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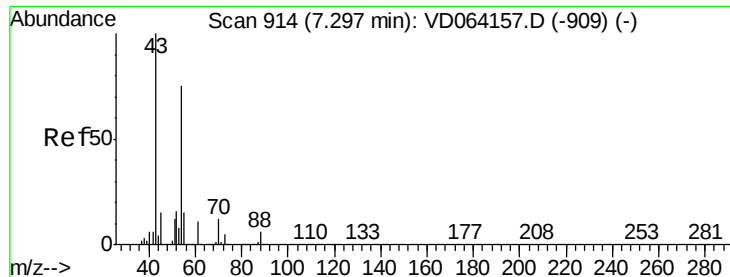
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#36
1,1-Dichloropropene
Concen: 19.560 ug/l
RT: 8.11 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	172061		
110	37.6		18.3	54.9
77	31.8		25.0	37.6





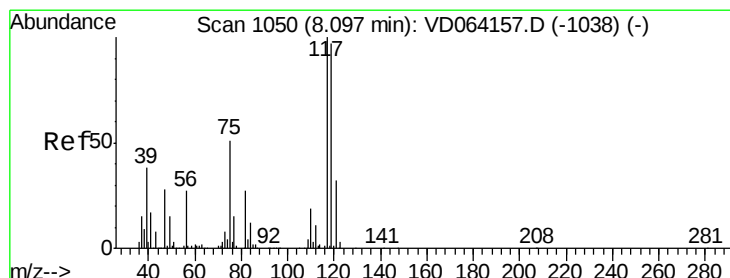
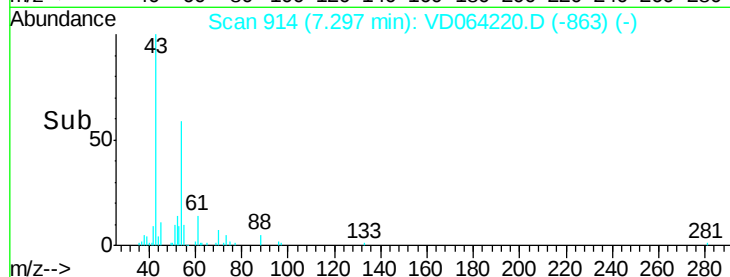
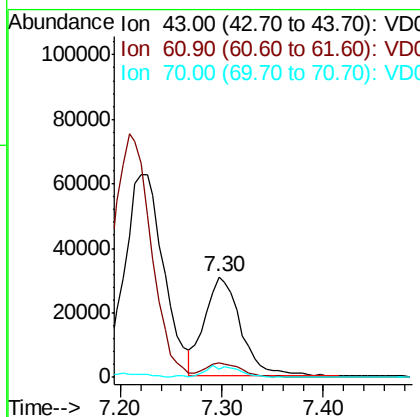
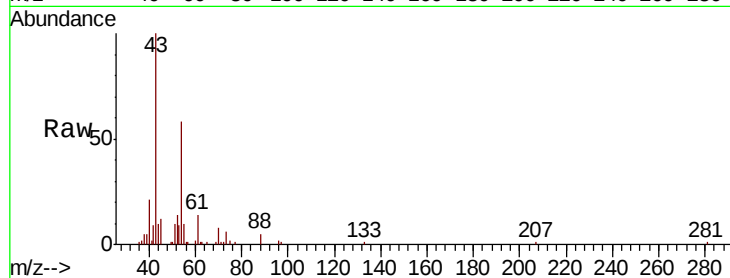
#37
Ethyl Acetate
Concen: 20.491 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	10.2	15.2
70	4.4	8.5	12.7

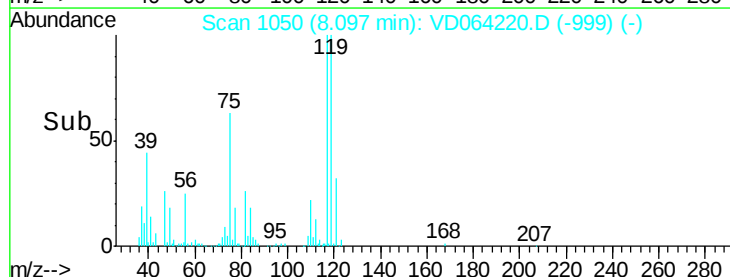
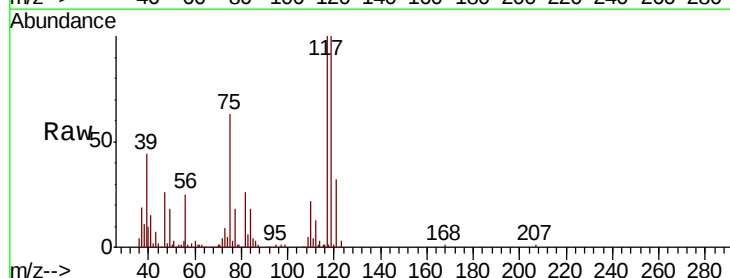
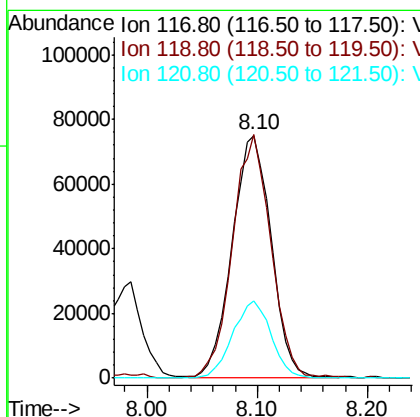
Manual Integrations
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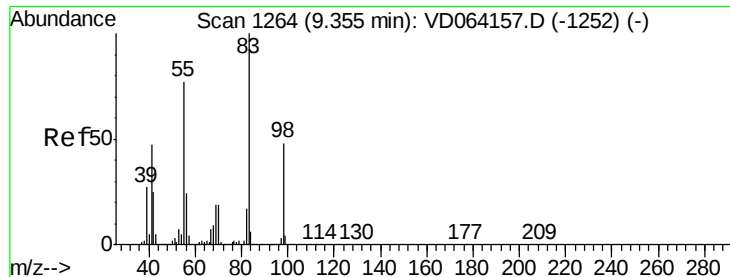
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#38
Carbon Tetrachloride
Concen: 19.680 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.3	77.2	115.8
121	31.9	25.5	38.3





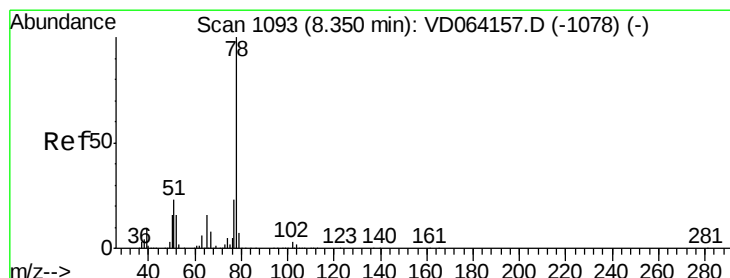
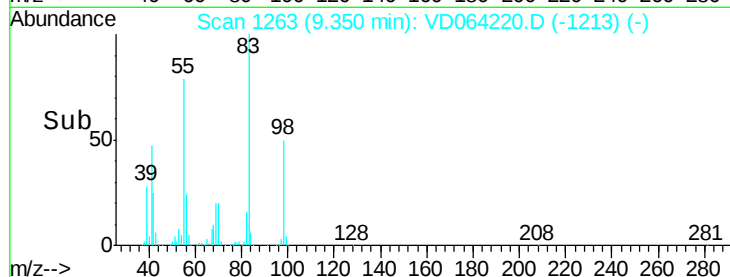
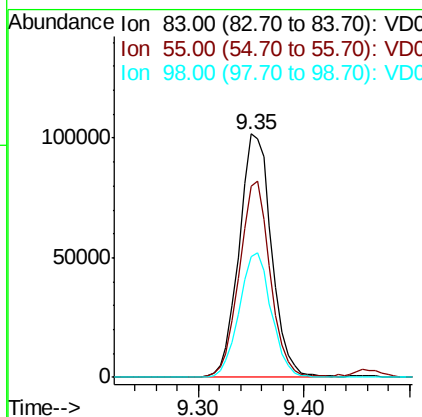
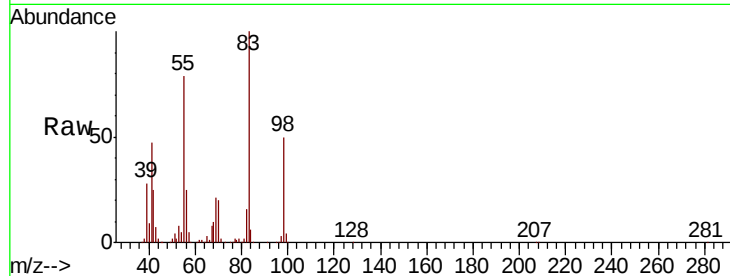
#39
Methvlcvclohexane
Concen: 19.504 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.7	61.7	92.5
98	49.3	38.6	58.0

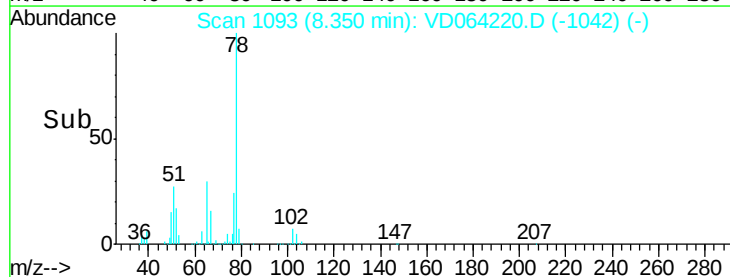
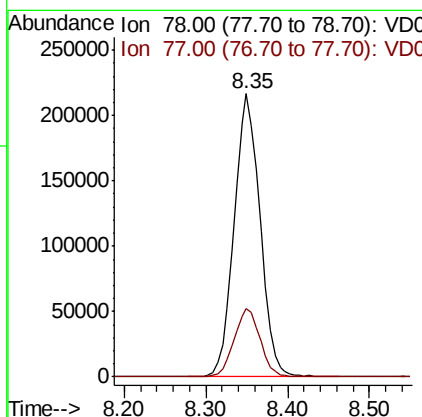
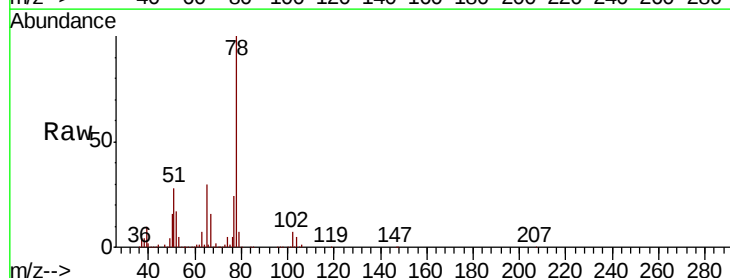
Manual Integrations
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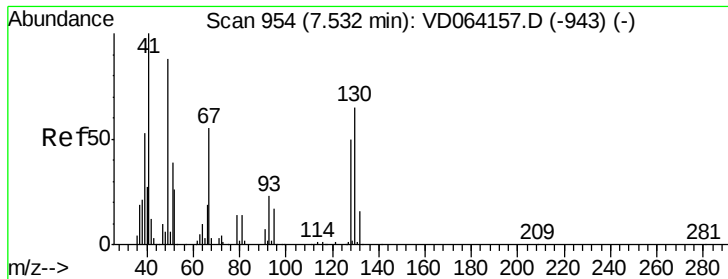
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11/19/2019 12:23:16 PM



#40
Benzene
Concen: 19.853 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.6	28.0





#41

Methacrylonitrile

Concen: 20.121 ug/l

RT: 7.53 min Scan# 954

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

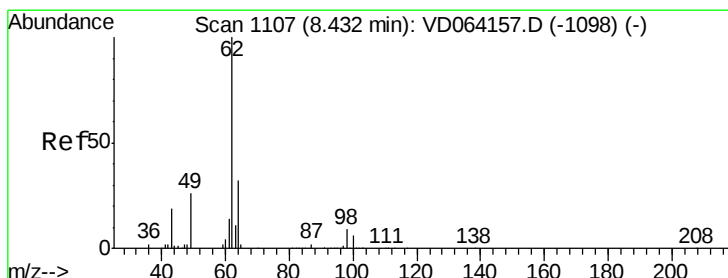
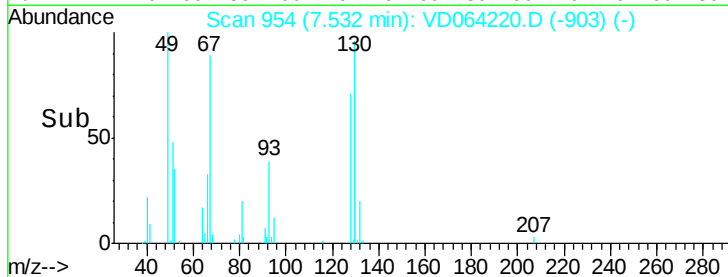
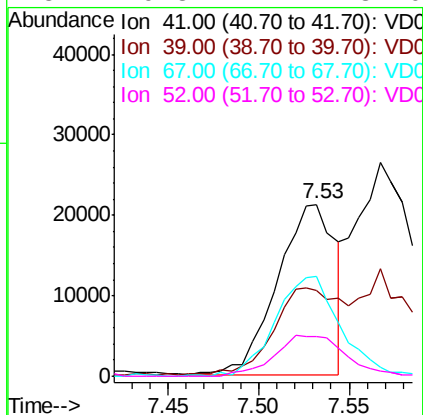
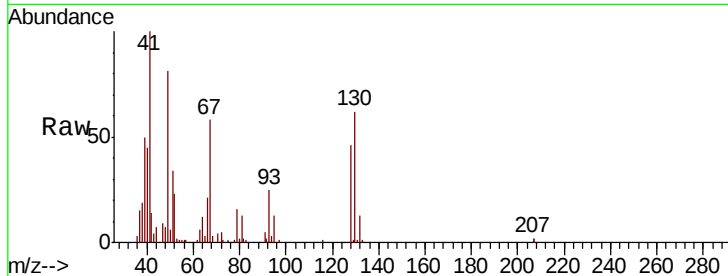
ClientSampleId :

VD1115SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	60.7	49.4	74.2	
67	66.3	49.6	74.4	
52	29.8	21.4	32.0	

Manual Integrations
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11/19/2019 12:23:16 PM



#42

1,2-Dichloroethane

Concen: 20.016 ug/l

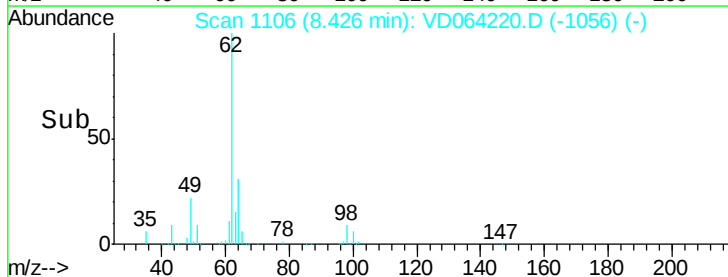
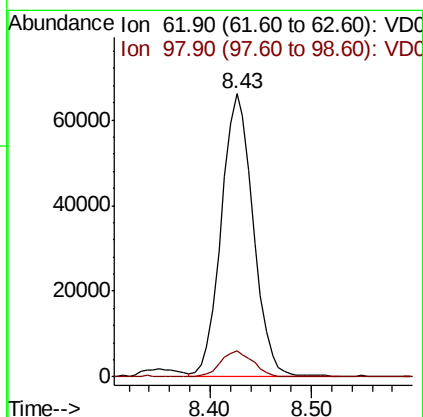
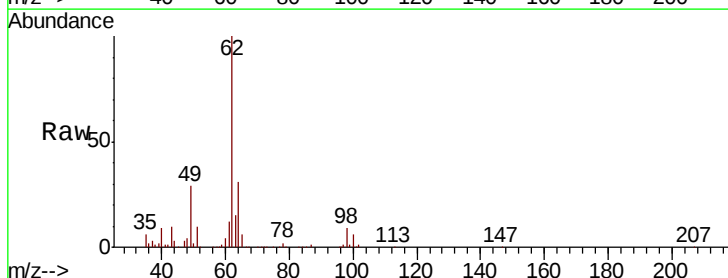
RT: 8.43 min Scan# 1106

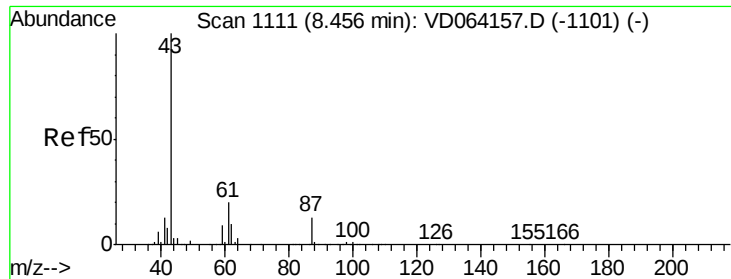
Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.4	0.0	19.0	





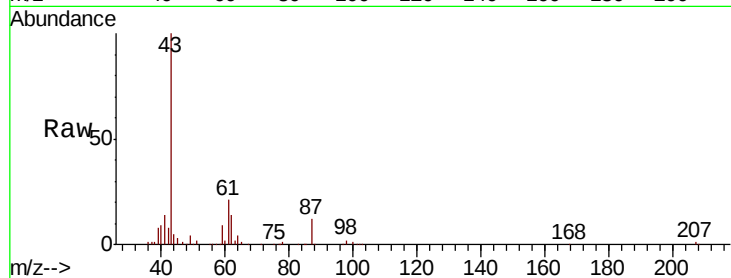
#43
Isopropyl Acetate
Concen: 20.075 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.2	22.9	34.3
87	12.7	10.2	15.2

Manual Integrations
APPROVED

MMDADODA
11/19/2019 12:23:16 PM

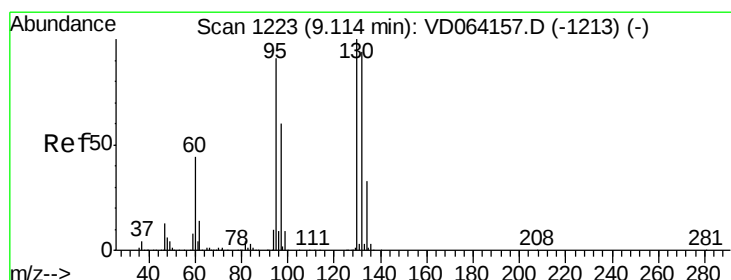
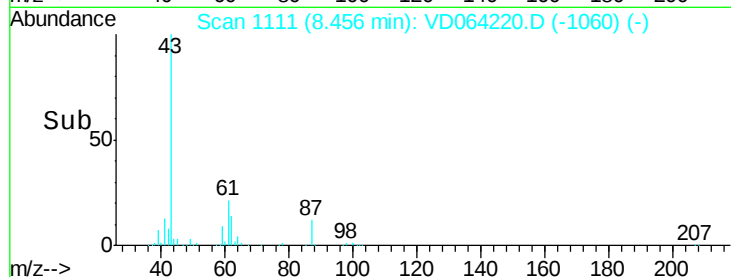
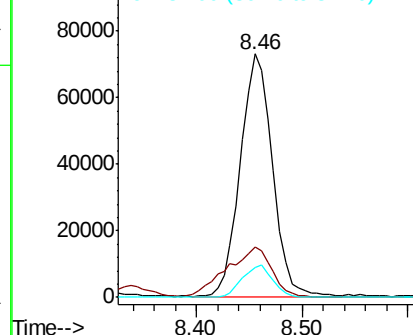


Abundance

Ion 43.00 (42.70 to 43.70): VDC

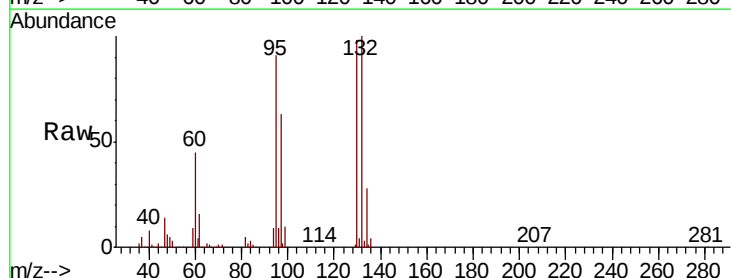
Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44
Trichloroethene
Concen: 19.751 ug/l
RT: 9.11 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

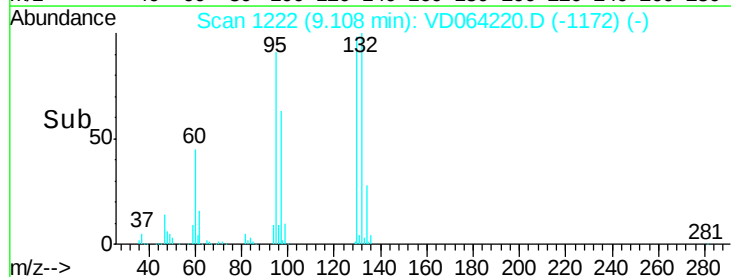
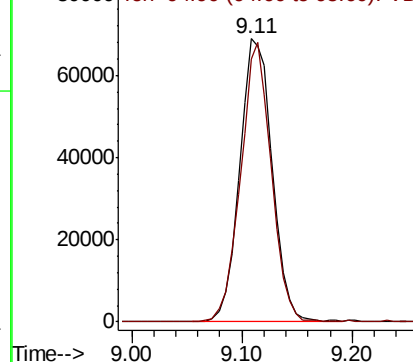
Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.7	0.0	181.6

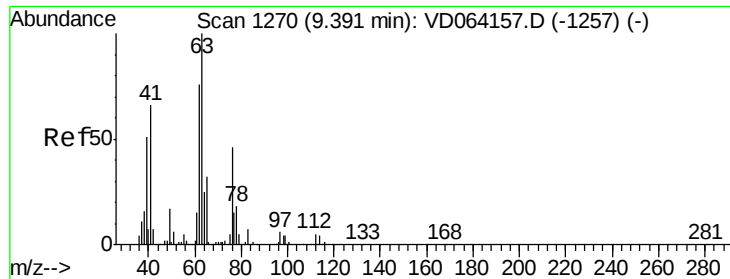


Abundance

Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





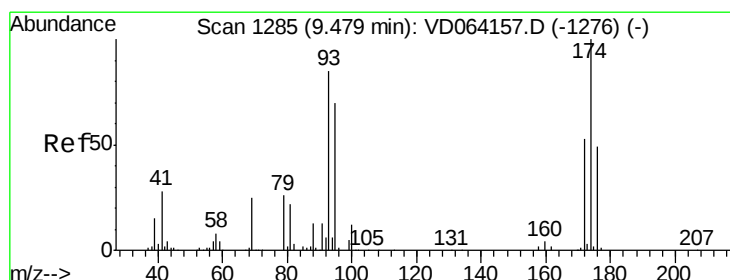
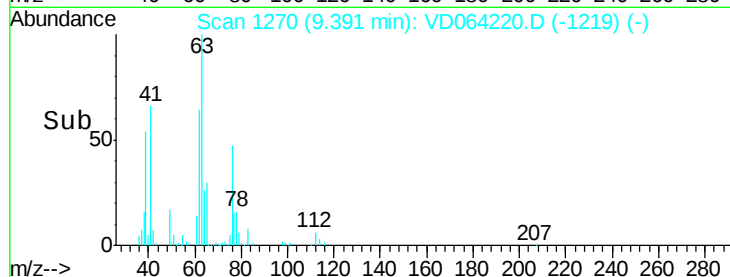
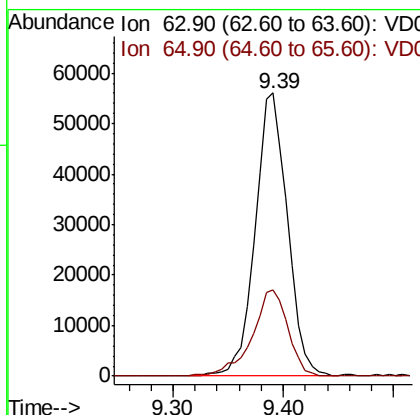
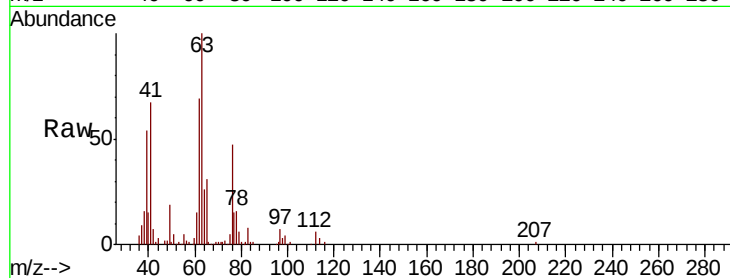
#45
 1,2-Dichloropropane
 Concen: 19.630 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	63	Resp	114863
Ion Ratio	Lower	Upper	
63	100		
65	30.7	25.7	38.5

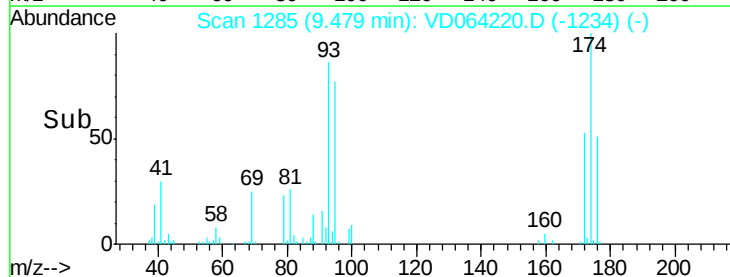
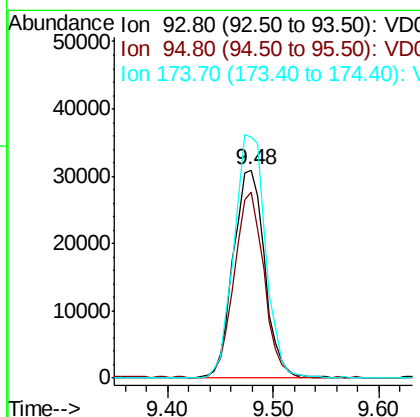
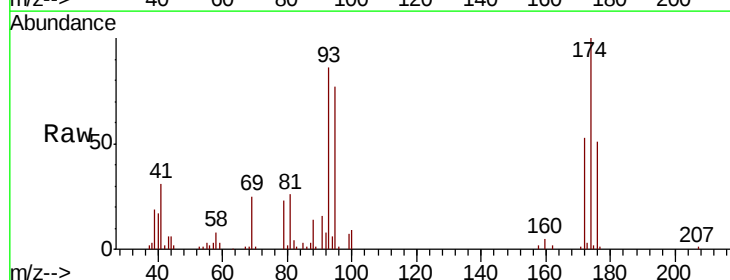
Manual Integrations
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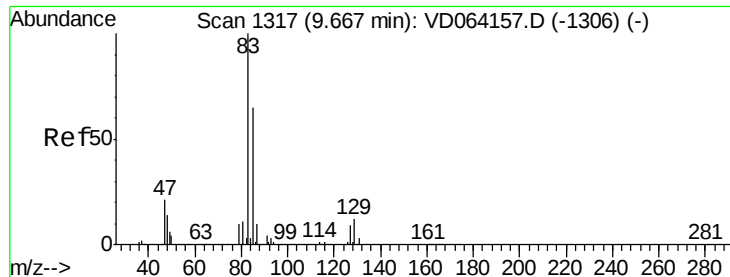
MMDADODA
 11/19/2019 12:23:16 PM



#46
 Dibromomethane
 Concen: 20.341 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Tgt Ion	93	Resp	63721
Ion Ratio	Lower	Upper	
93	100		
95	84.9	65.5	98.3
174	117.2	93.9	140.9





#47

Bromodichloromethane

Concen: 19.933 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

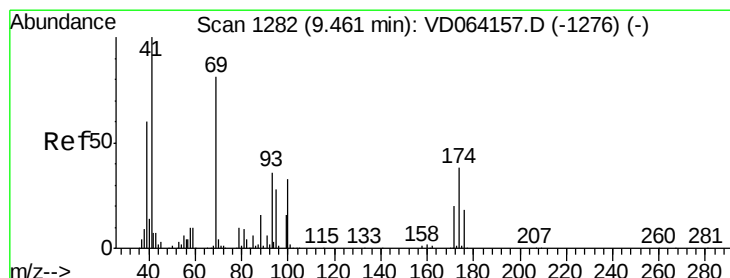
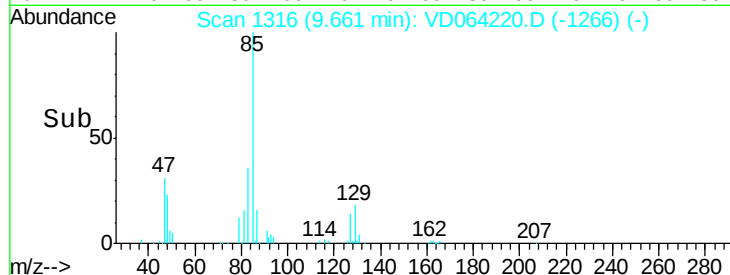
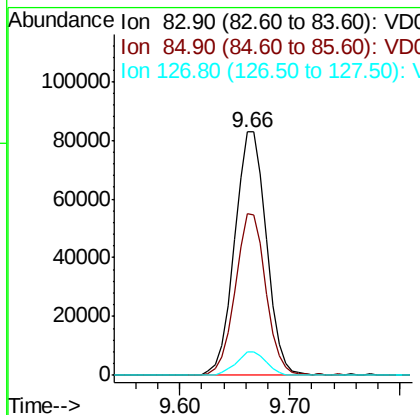
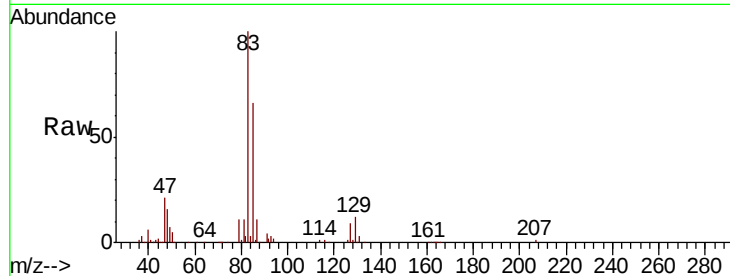
ClientSampleId :

VD1115SBS01

Tot Ion:	83	Resp:	168198
Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.2	78.4
127	9.4	7.5	11.3

Manual Integrations
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11/19/2019 12:23:16 PM



#48

Methyl methacrylate

Concen: 19.466 ug/l

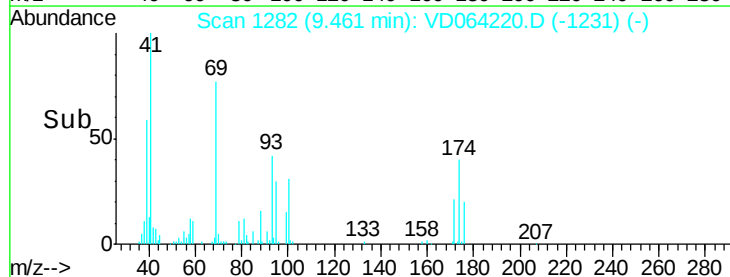
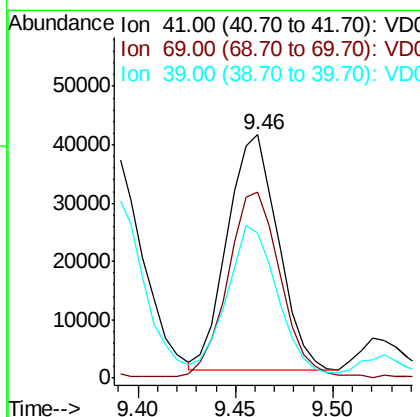
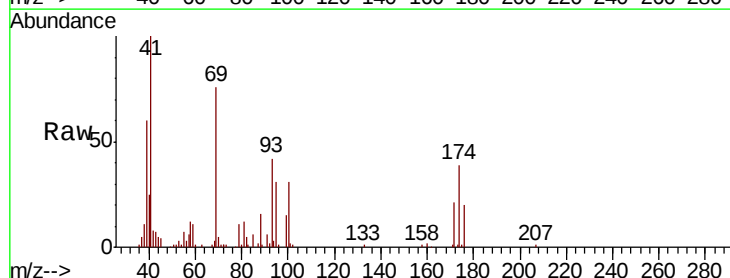
RT: 9.46 min Scan# 1282

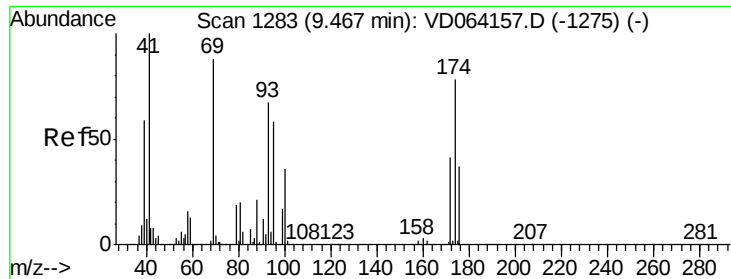
Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion:	41	Resp:	72730
Ion	Ratio	Lower	Upper
41	100		
69	81.8	64.6	97.0
39	64.8	48.2	72.2





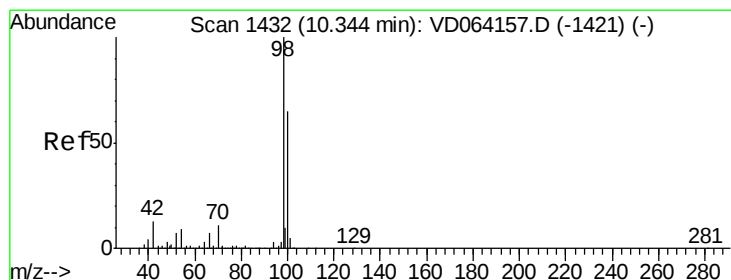
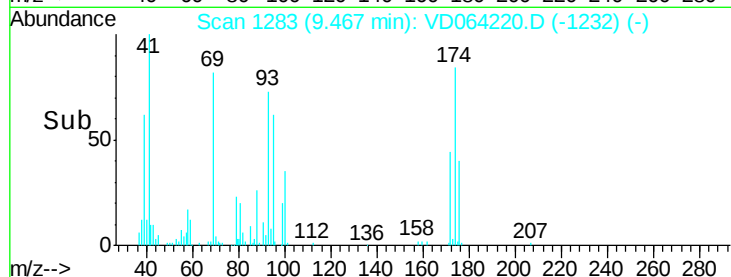
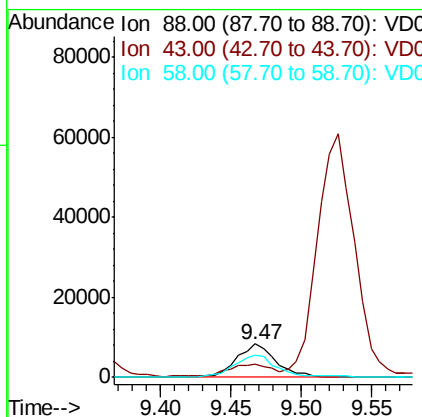
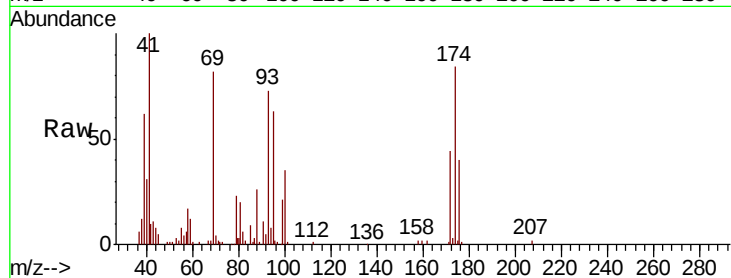
#49
1,4-Dioxane
Concen: 426.654 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	88	Resp	16052
Ion	Ratio	Lower	Upper
88	100		
43	36.9	29.8	44.8
58	71.4	58.1	87.1

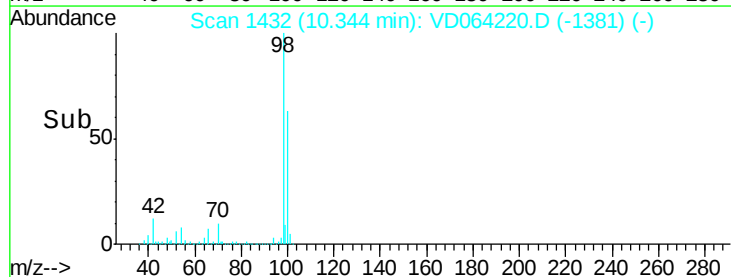
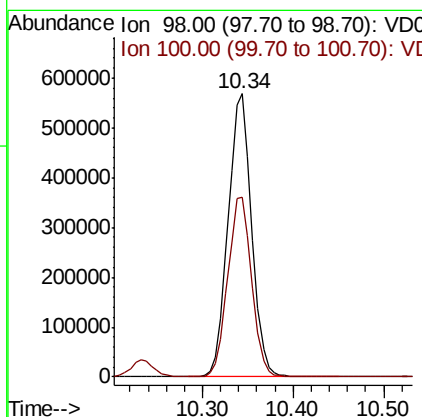
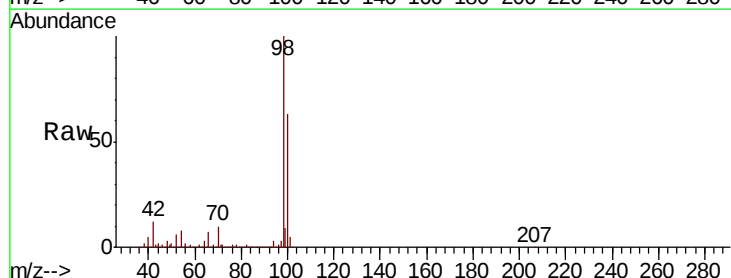
Manual Integrations
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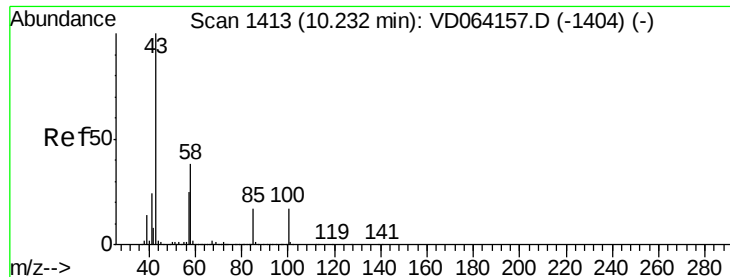
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#50
Toluene-d8
Concen: 49.724 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	98	Resp	1026273
Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.6	78.8





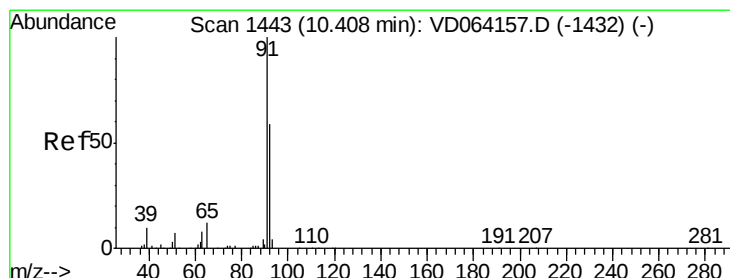
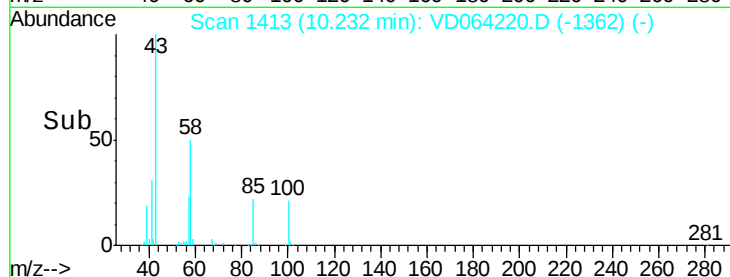
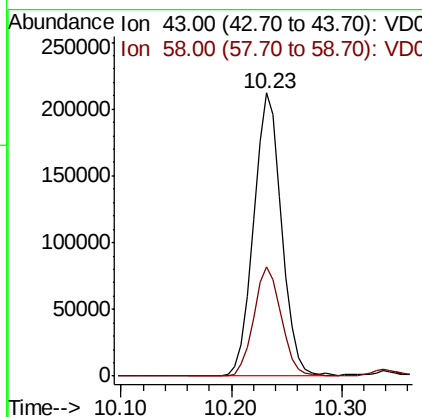
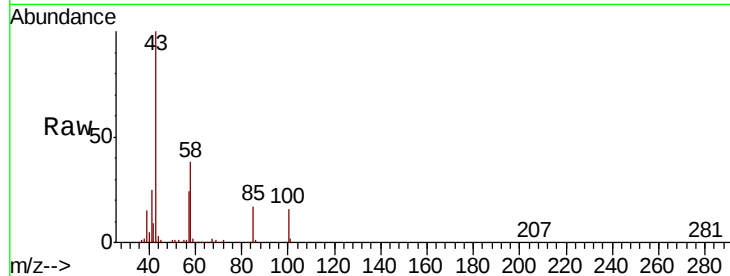
#51
4-Methyl-2-Pentanone
Concen: 102.892 ug/l
RT: 10.23 min Scan# 1413
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.2	30.2	45.4

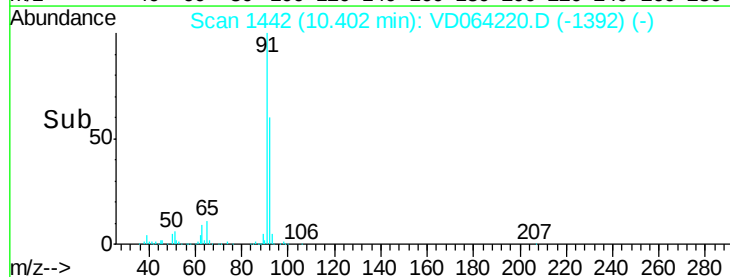
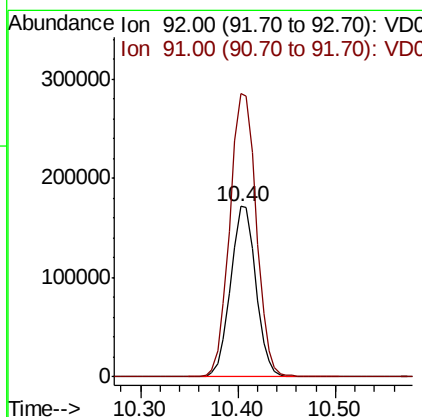
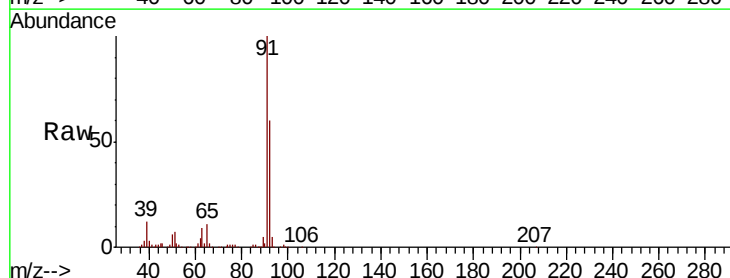
Manual Integrations
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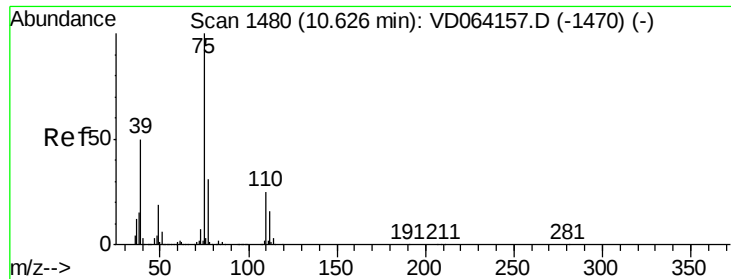
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#52
Toluene
Concen: 19.699 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.6	136.4	204.6





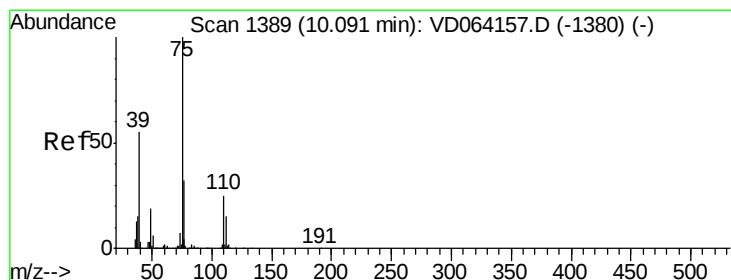
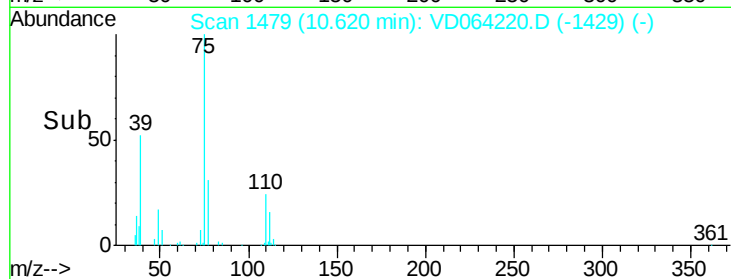
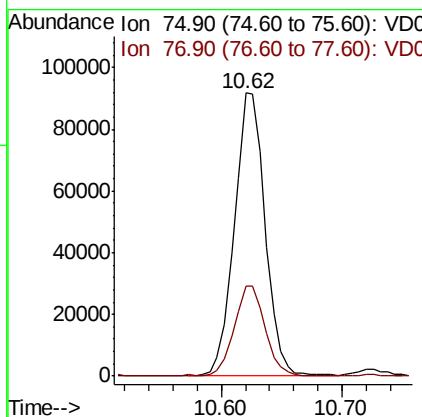
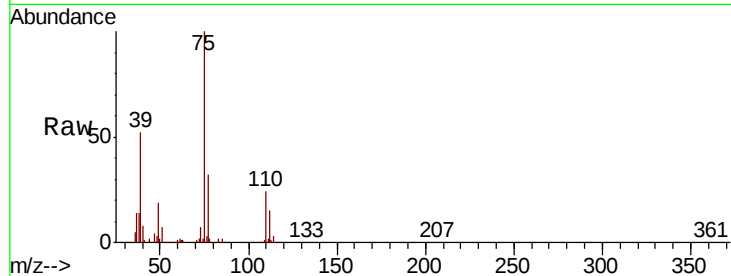
#53
t-1,3-Dichloropropene
Concen: 19.285 ug/l
RT: 10.62 min Scan# 1479
Delta R.T. -0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion: 75 Resp: 163028
Ion Ratio Lower Upper
75 100
77 31.8 24.7 37.1

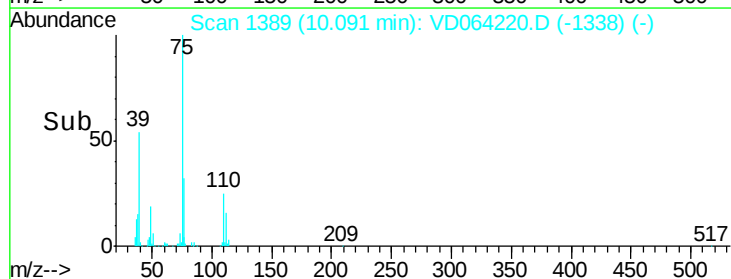
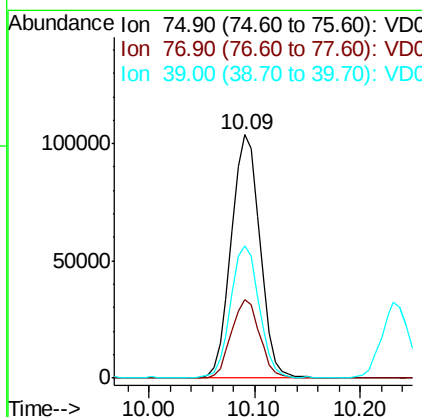
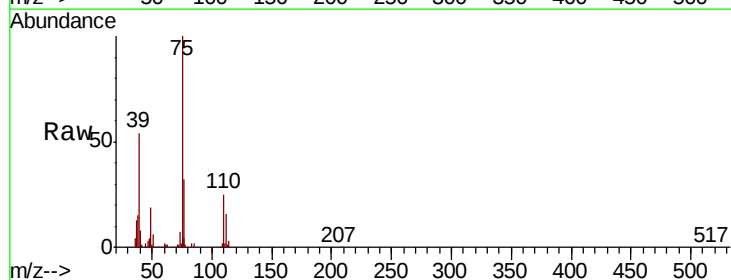
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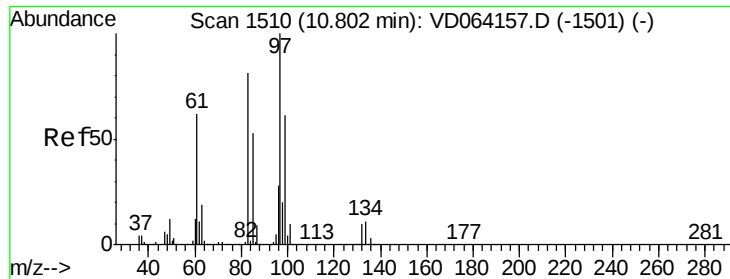
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#54
cis-1,3-Dichloropropene
Concen: 19.771 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion: 75 Resp: 195039
Ion Ratio Lower Upper
75 100
77 32.0 25.2 37.8
39 54.2 44.2 66.2





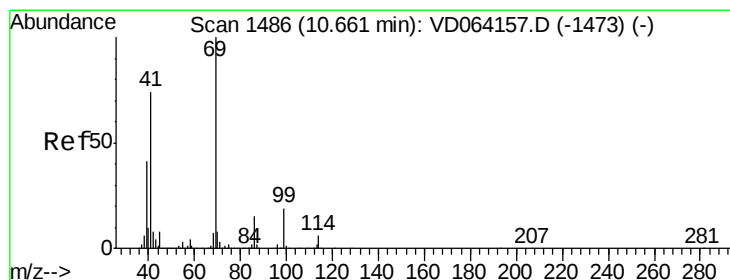
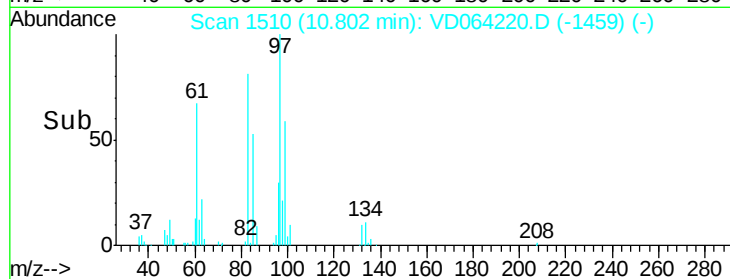
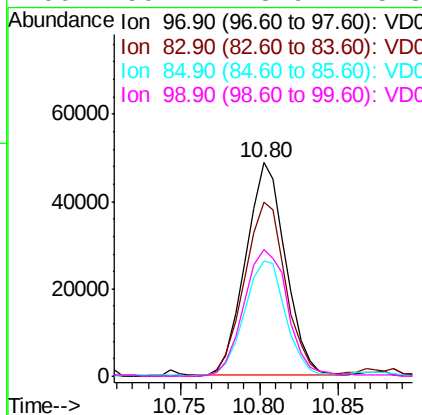
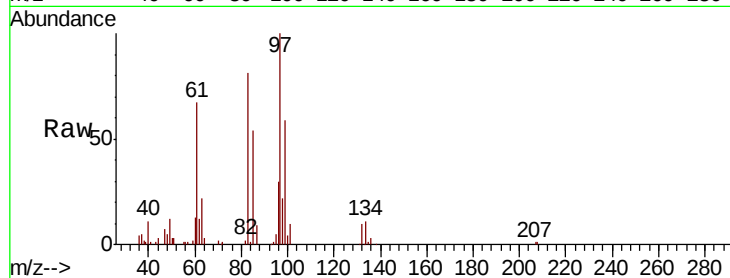
#55
 1,1,2-Trichloroethane
 Concen: 20.073 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion:	97	Resp:	85303
Ion	Ratio	Lower	Upper
97	100		
83	81.8	65.1	97.7
85	54.1	42.0	63.0
99	59.4	48.9	73.3

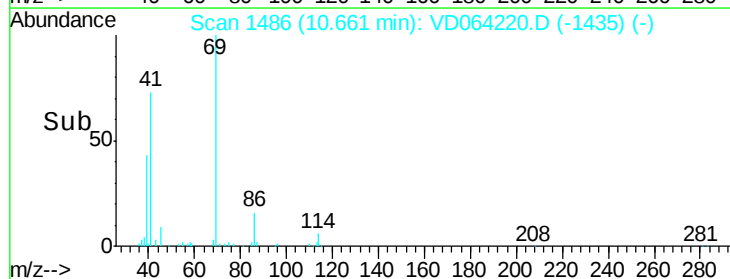
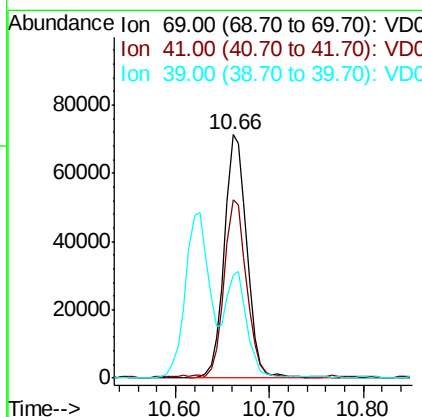
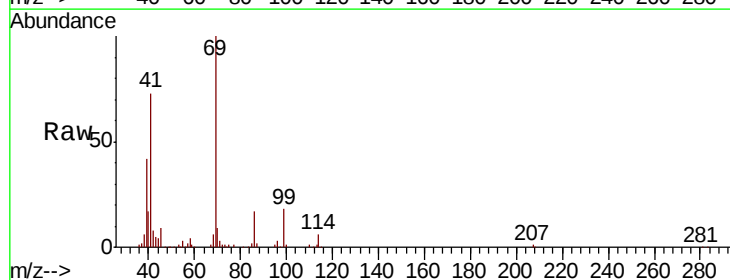
Manual Integrations
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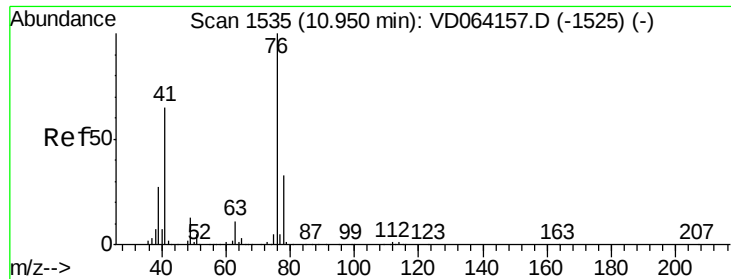
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#56
 Ethyl methacrylate
 Concen: 20.002 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Tgt Ion:	69	Resp:	118909
Ion	Ratio	Lower	Upper
69	100		
41	72.8	57.9	86.9
39	42.1	29.0	43.4





#57

1,3-Dichloropropane

Concen: 20.589 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 76 Resp: 152593

Ion Ratio Lower Upper

76 100

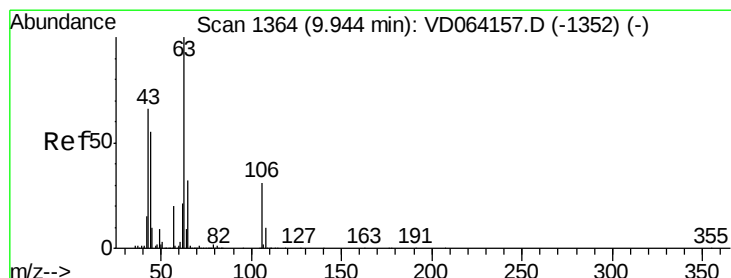
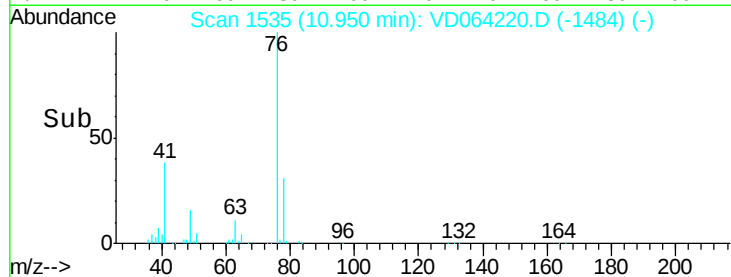
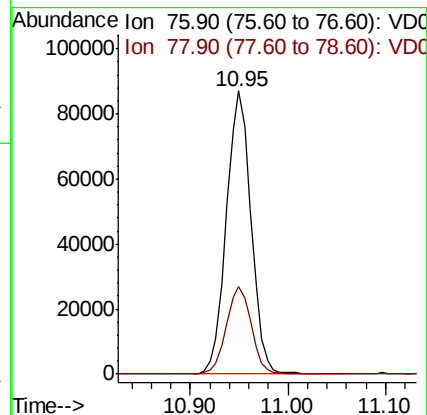
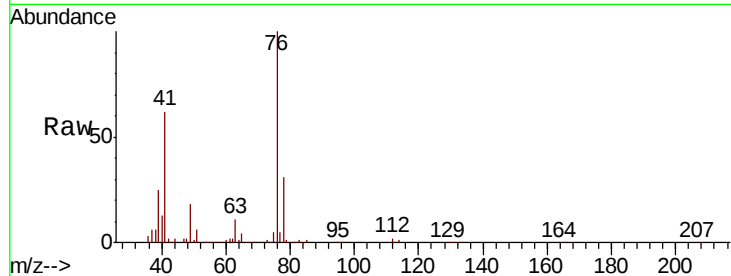
78 31.1 26.2 39.4

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 97.658 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD064220.D

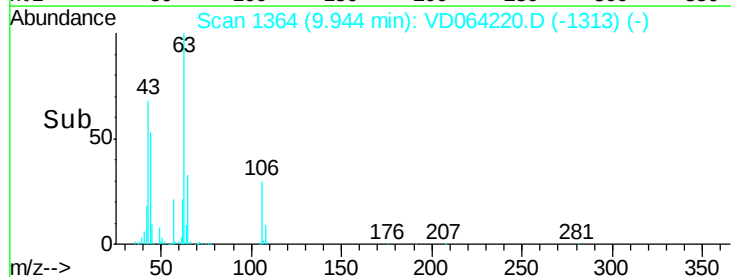
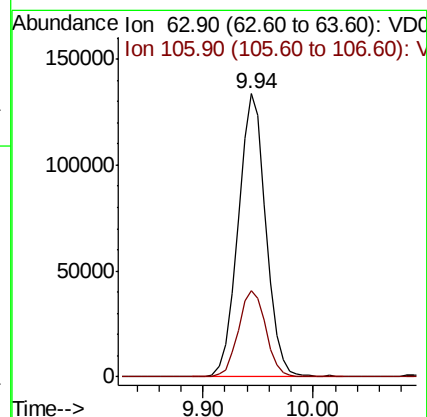
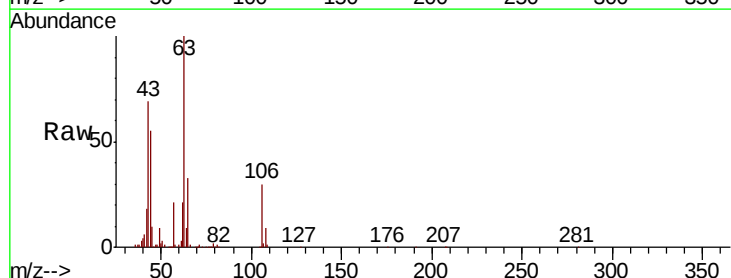
Acq: 15 Nov 2019 11:45

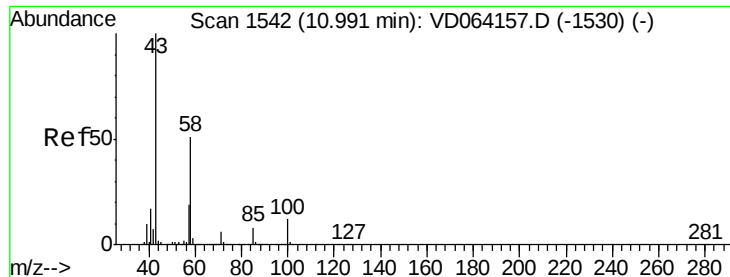
Tgt Ion: 63 Resp: 235166

Ion Ratio Lower Upper

63 100

106 30.4 24.1 36.1





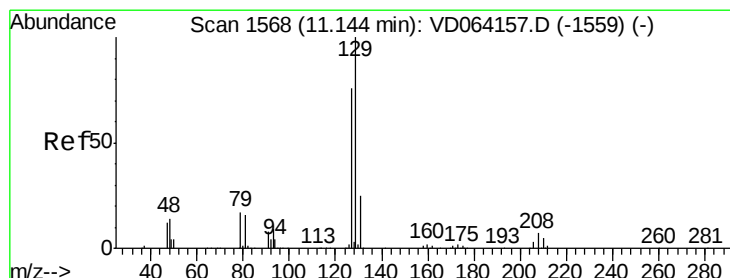
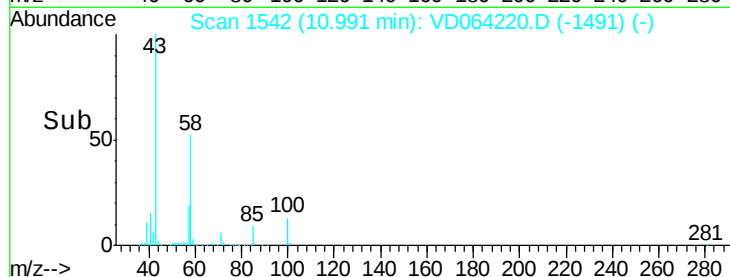
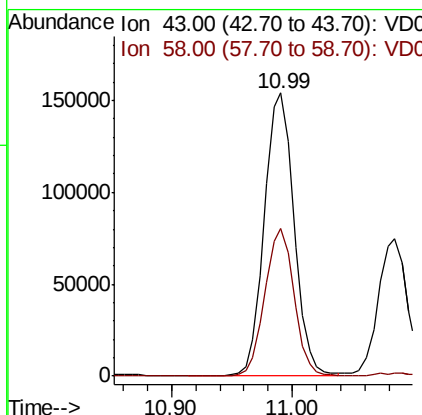
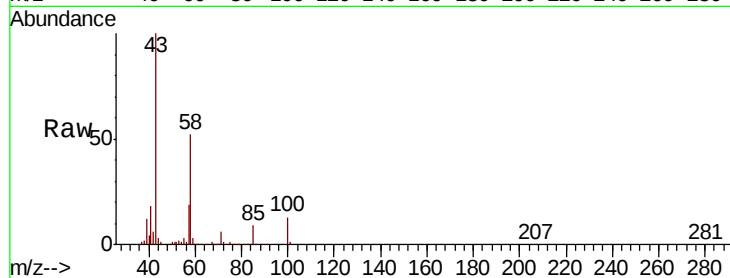
#59
2-Hexanone
Concen: 100.668 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.2	25.9	77.7

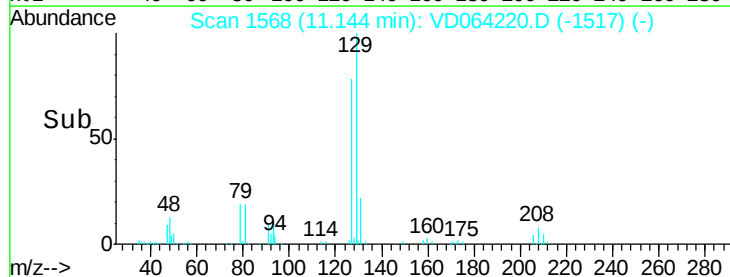
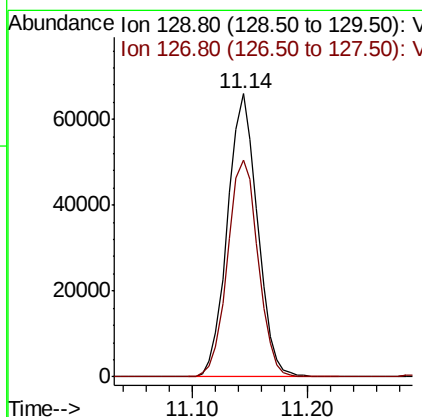
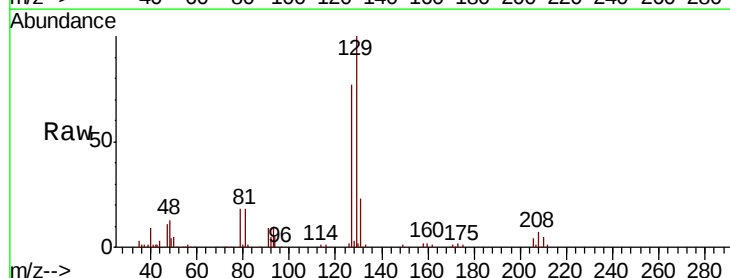
Manual Integrations
APPROVED

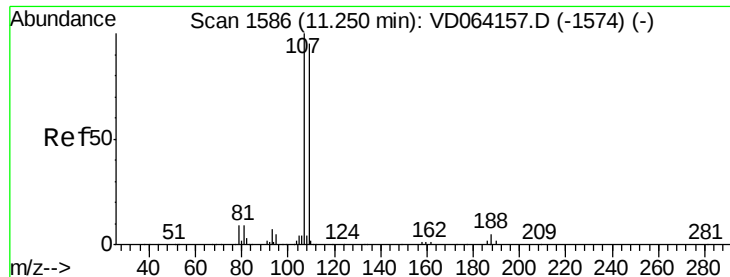
MMDADODA
11/19/2019 12:23:16 PM



#60
Dibromochloromethane
Concen: 20.020 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8





#61

1,2-Dibromoethane

Concen: 20.794 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 107 Resp: 88508

Ion Ratio Lower Upper

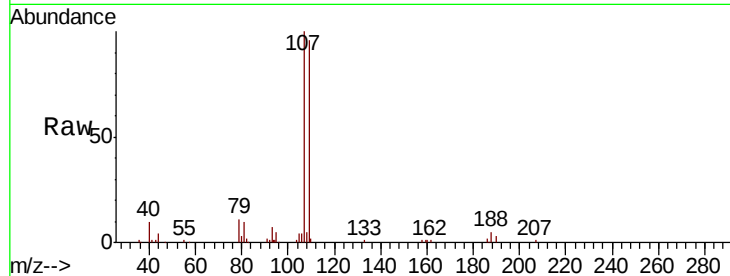
107 100

109 92.9 75.1 112.7

Manual Integrations
APPROVED

MMDADODA

11/19/2019 12:23:16 PM

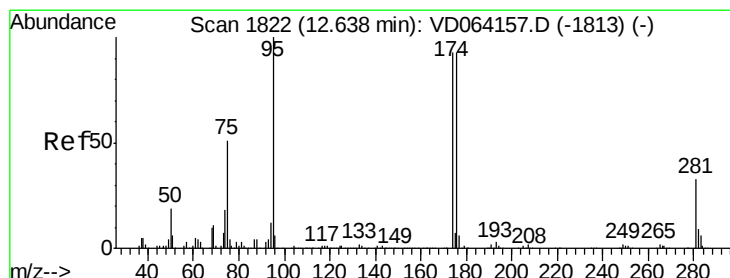
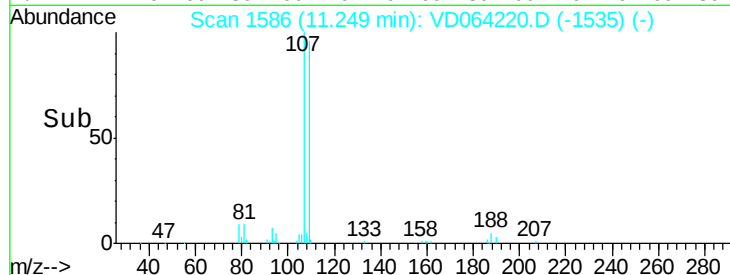


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.25

Time--> 11.15 11.20 11.25 11.30



#62

4-Bromofluorobenzene

Concen: 47.492 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

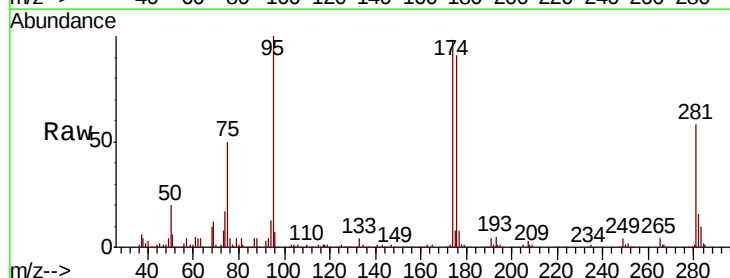
Tgt Ion: 95 Resp: 339450

Ion Ratio Lower Upper

95 100

174 95.9 0.0 183.6

176 91.5 0.0 180.2



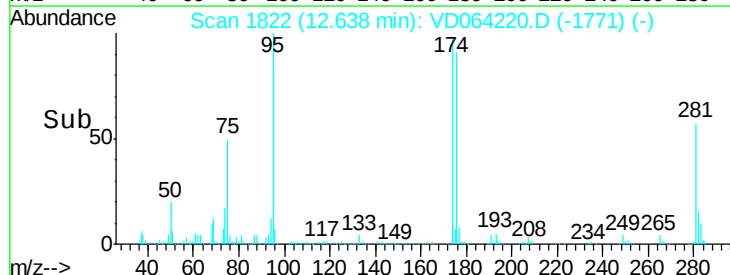
Abundance Ion 94.90 (94.60 to 95.60): V

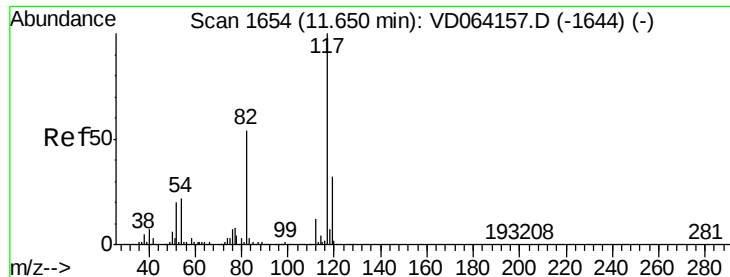
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.64

Time--> 12.60 12.70





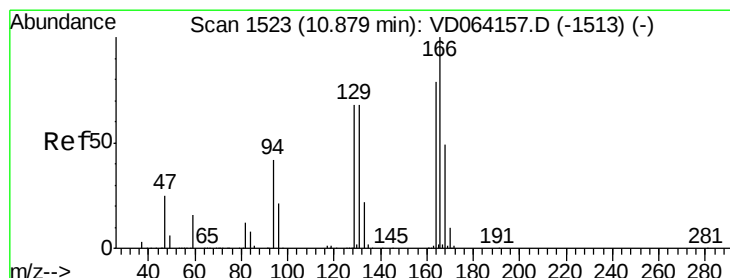
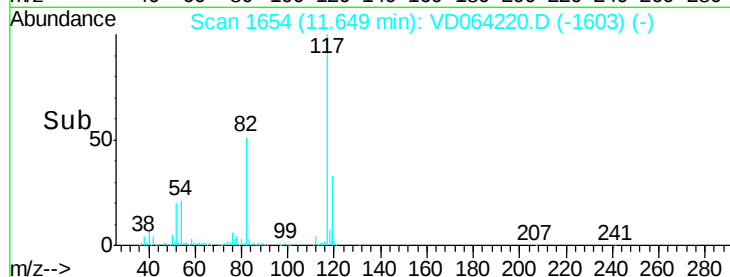
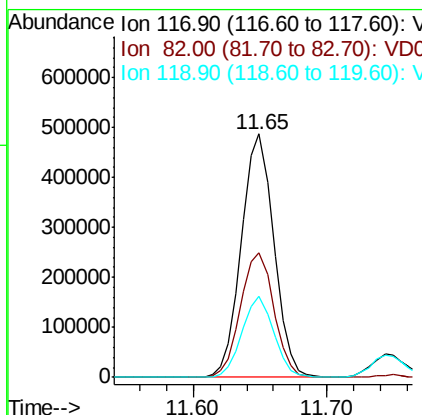
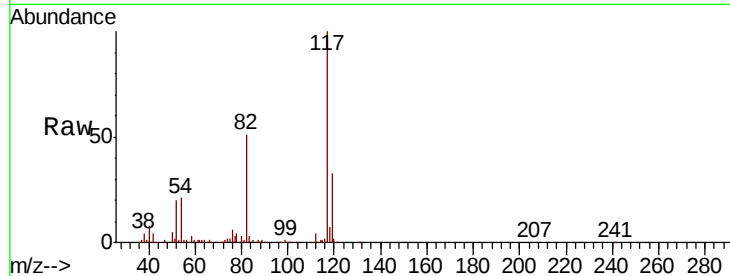
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.4	42.8	64.2
119	33.1	25.6	38.4

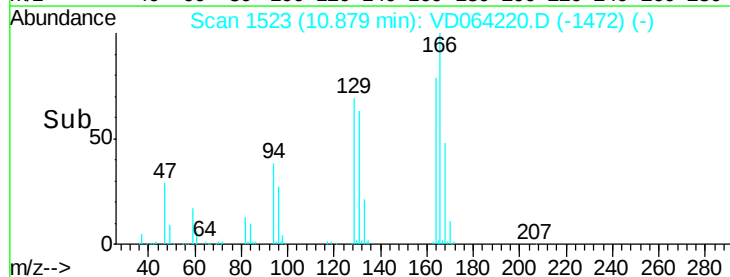
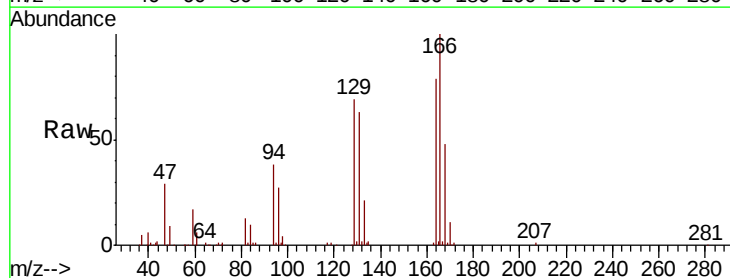
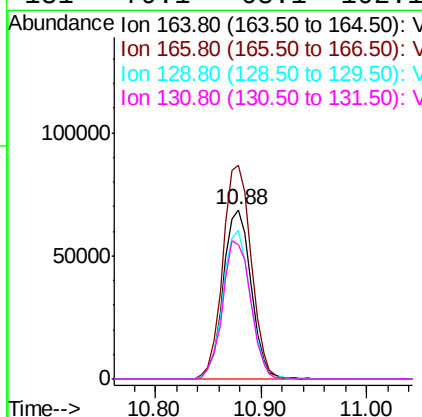
Manual Integrations
APPROVED

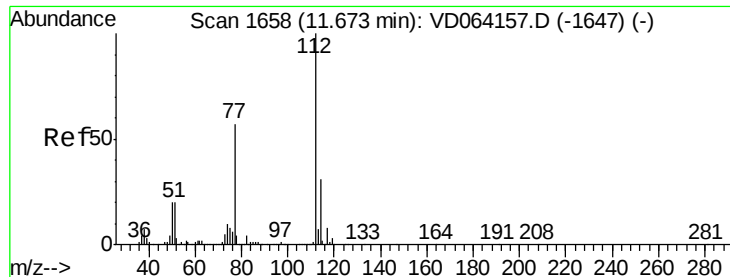
MMDADODA
11/19/2019 12:23:16 PM



#64
Tetrachloroethene
Concen: 19.850 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.4	100.8	151.2
129	87.6	68.7	103.1
131	79.1	68.1	102.1





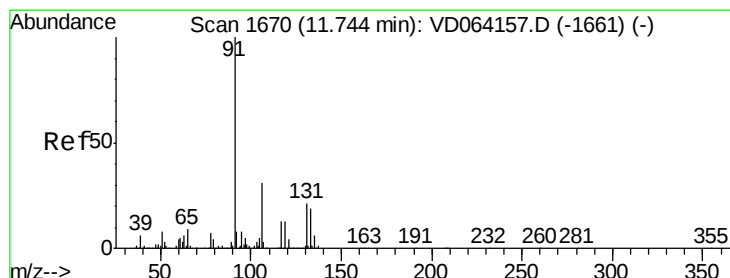
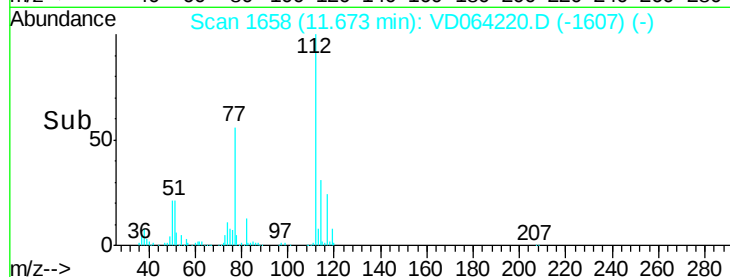
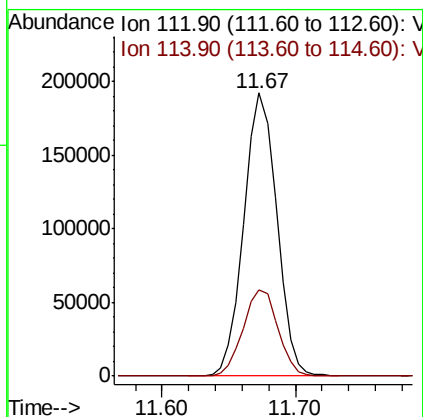
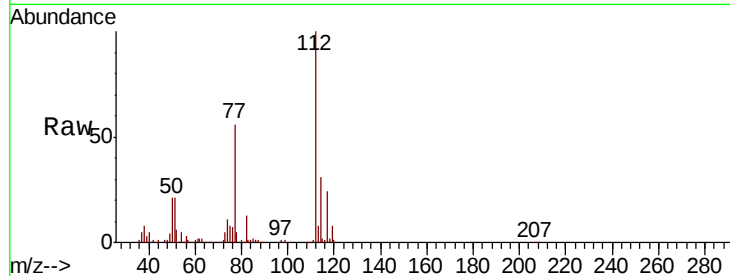
#65
Chlorobenzene
Concen: 19.599 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBSD01

Tot Ion:112 Resp: 327970
Ion Ratio Lower Upper
112 100
114 30.7 25.2 37.8

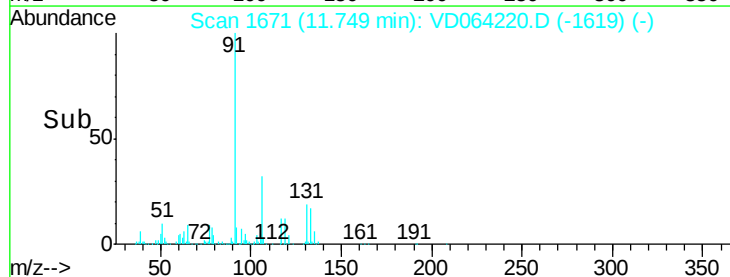
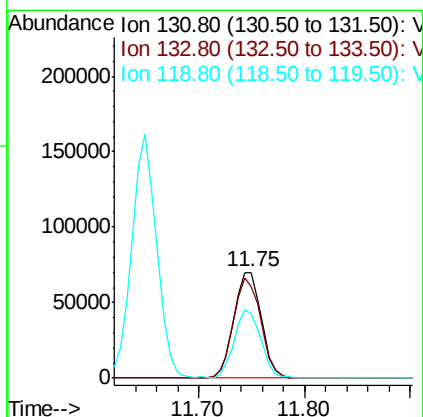
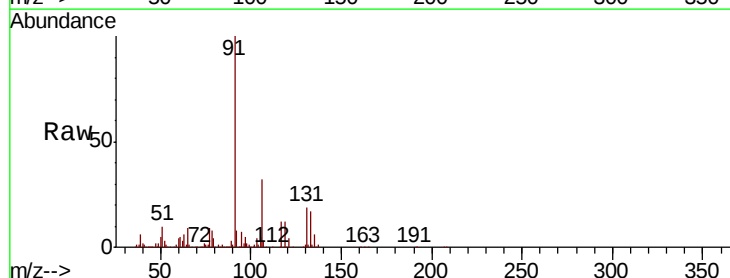
Manual Integrations
APPROVED

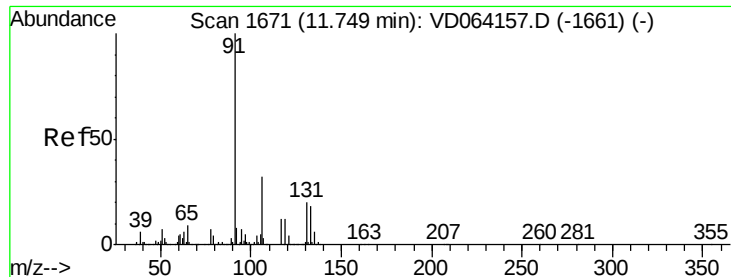
MMDADODA
11/19/2019 12:23:16 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.658 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion:131 Resp: 125080
Ion Ratio Lower Upper
131 100
133 94.6 47.3 141.9
119 62.7 31.1 93.3





#67

Ethyl Benzene

Concen: 20.107 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 91 Resp: 608621

Ion Ratio Lower Upper

91 100

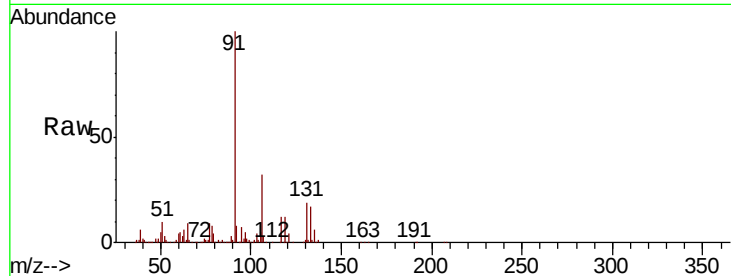
106 32.0 25.5 38.3

Manual Integrations

APPROVED

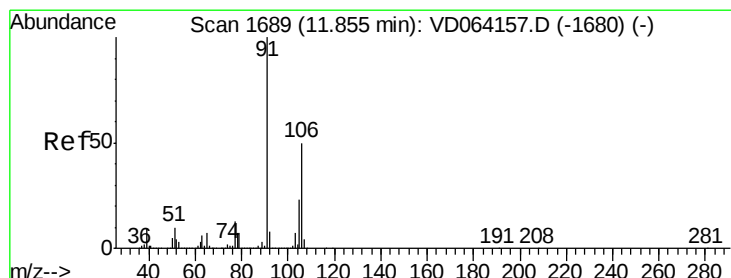
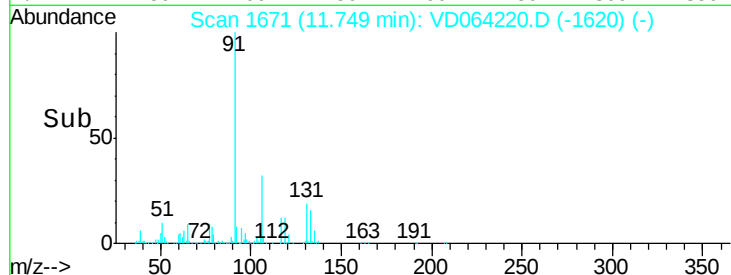
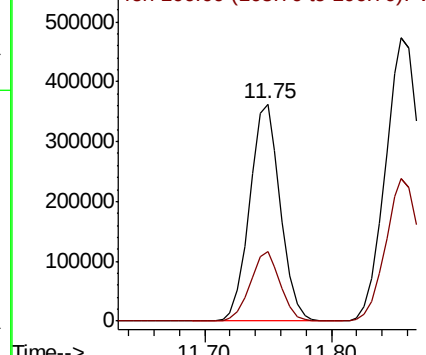
MMDADODA

11/19/2019 12:23:16 PM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 39.052 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD064220.D

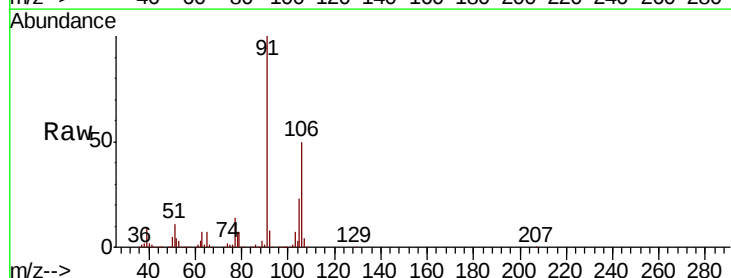
Acq: 15 Nov 2019 11:45

Tgt Ion: 106 Resp: 453077

Ion Ratio Lower Upper

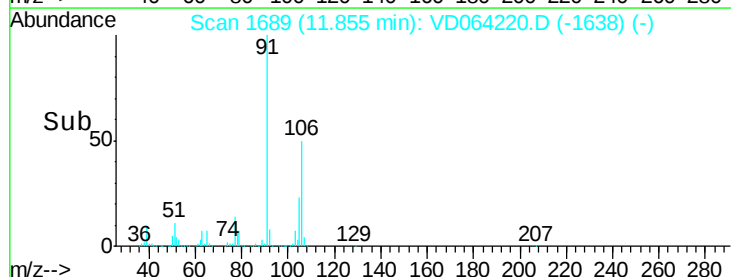
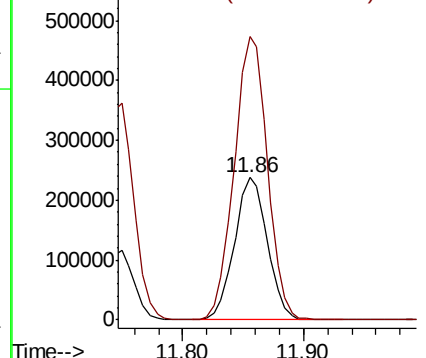
106 100

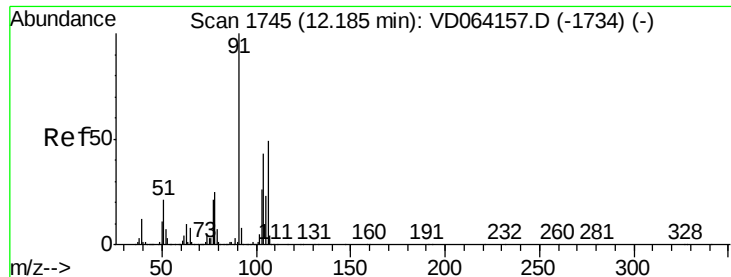
91 200.3 160.3 240.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V





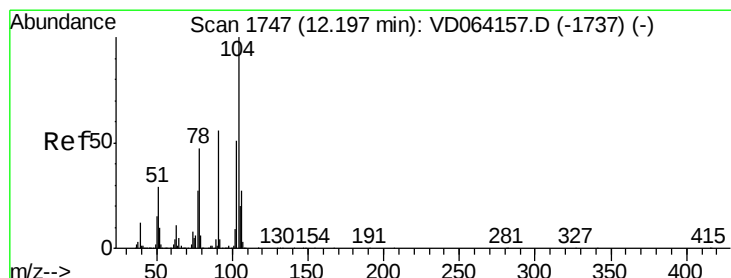
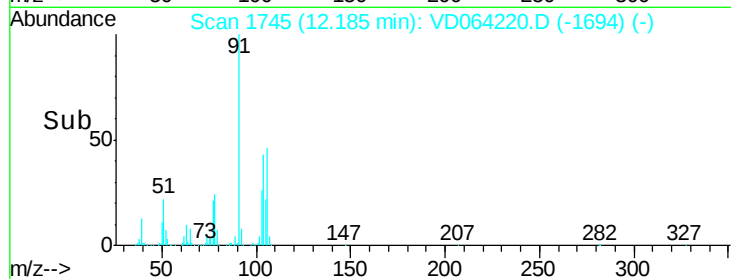
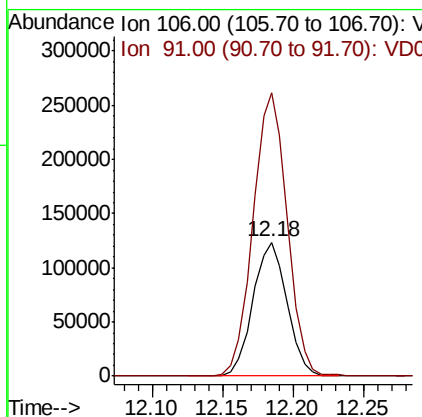
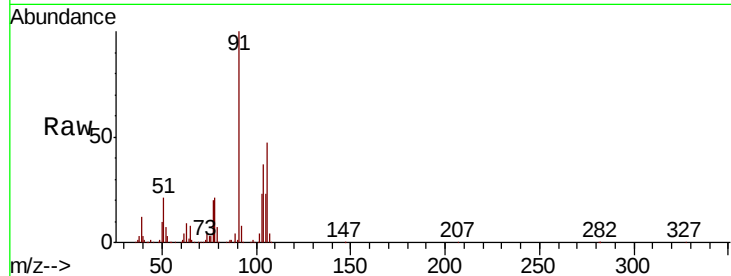
#69
o-Xylene
Concen: 19.406 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.0	105.1	315.3

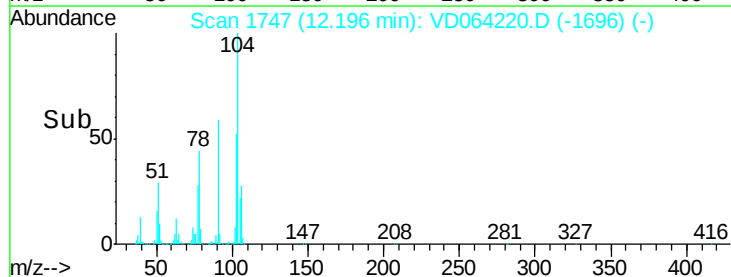
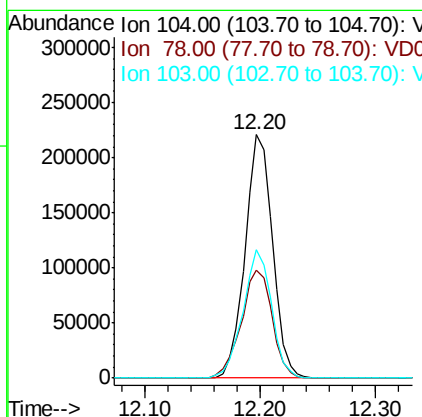
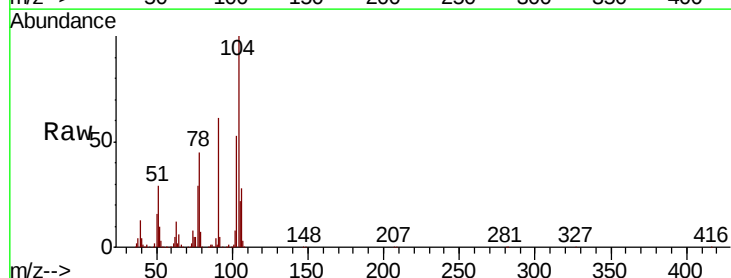
Manual Integrations
APPROVED

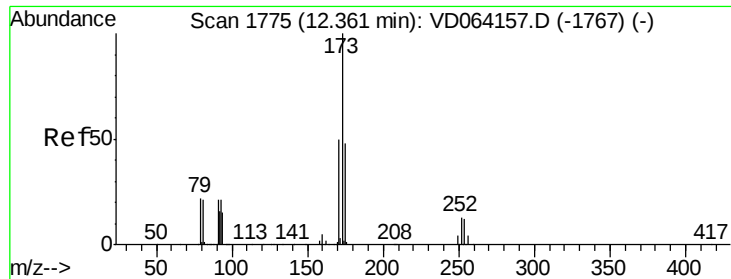
MMDADODA
11/19/2019 12:23:16 PM



#70
Styrene
Concen: 19.466 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.7	39.9	59.9
103	54.7	43.4	65.0





#71

Bromoform

Concen: 20.920 ug/l

RT: 12.37 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

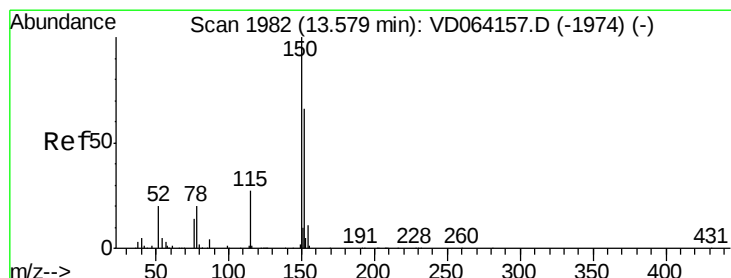
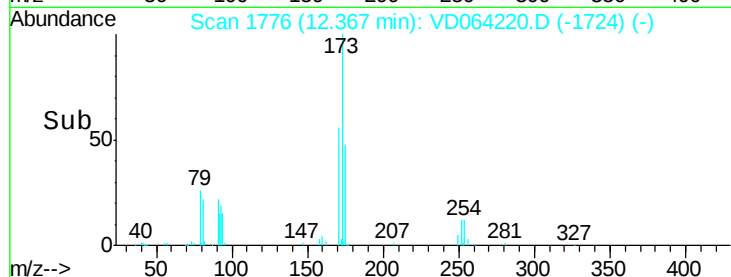
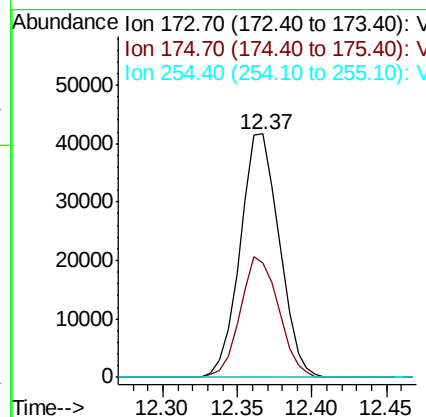
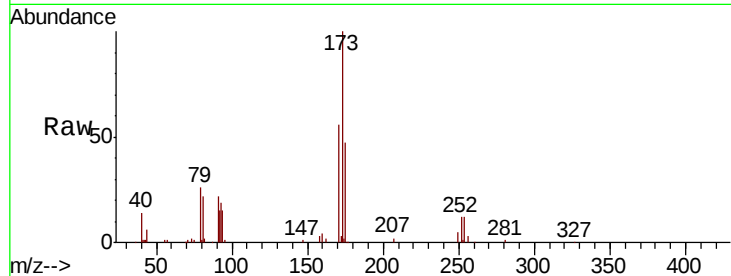
ClientSampleId :

VD1115SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.1	72.3
254	0.0	0.2	0.2

Manual Integrations
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11/19/2019 12:23:16 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

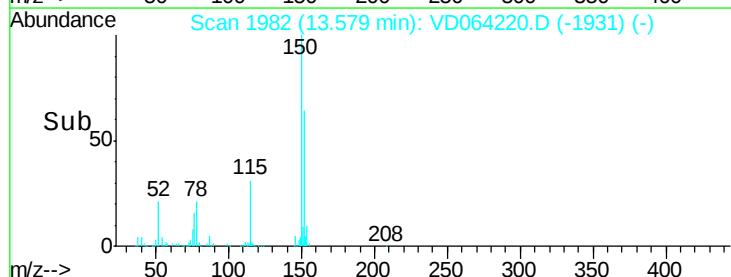
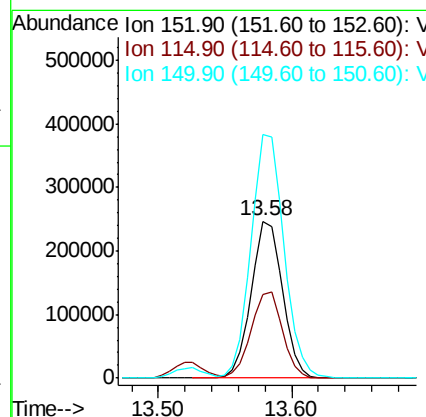
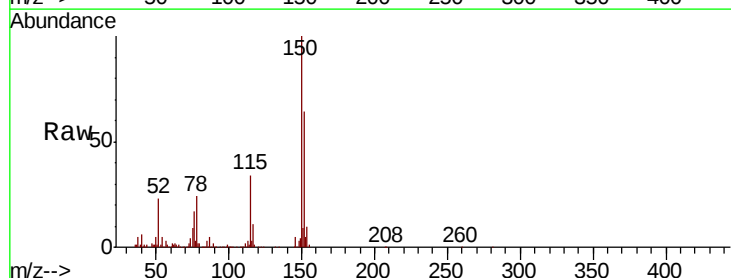
RT: 13.58 min Scan# 1982

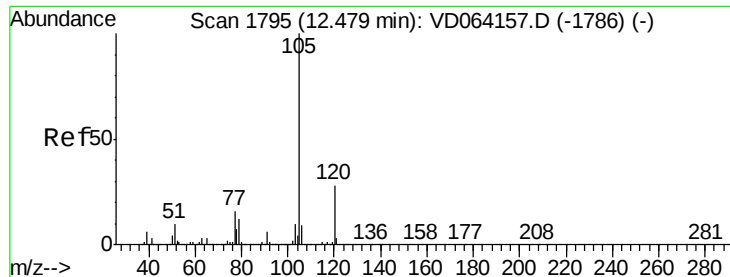
Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.4	82.2
150	163.7	0.0	351.6





#73

Isopropylbenzene

Concen: 20.015 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

ClientSampleId :

VD1115SBS01

Tot Ion: 105 Resp: 586271

Ion Ratio Lower Upper

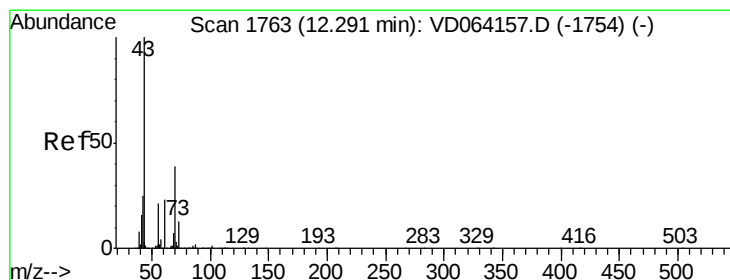
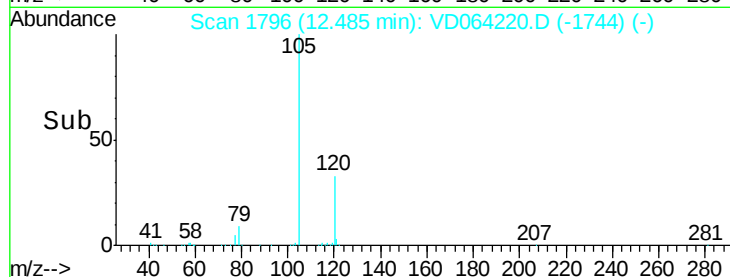
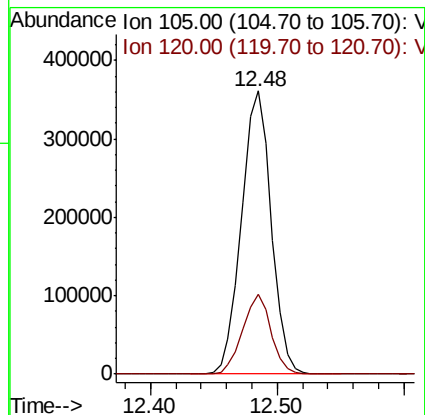
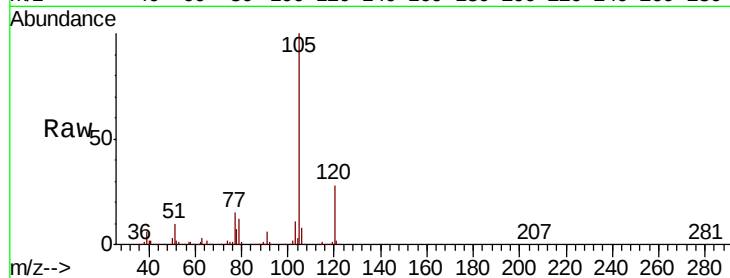
105 100

120 26.9 13.6 40.8

Manual Integrations
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#74

N-ethyl acetate

Concen: 20.051 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion: 43 Resp: 138690

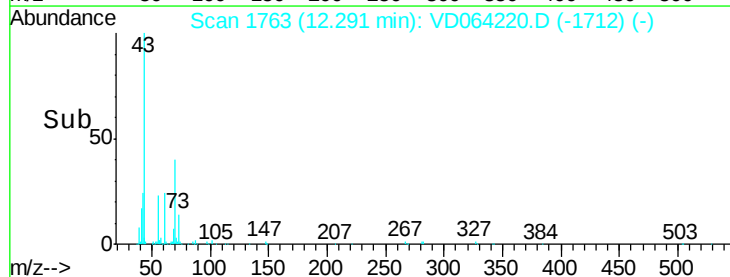
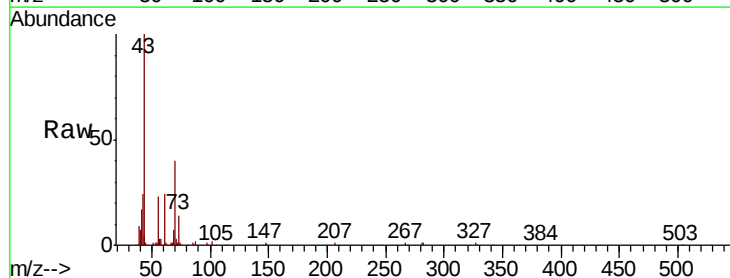
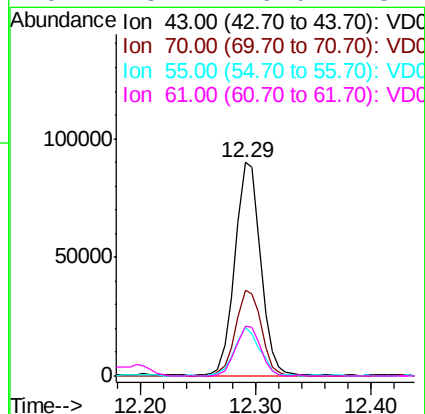
Ion Ratio Lower Upper

43 100

70 40.6 32.4 48.6

55 22.1 17.9 26.9

61 23.1 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 21.386 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

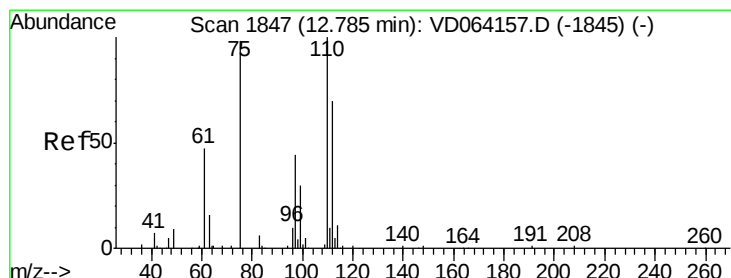
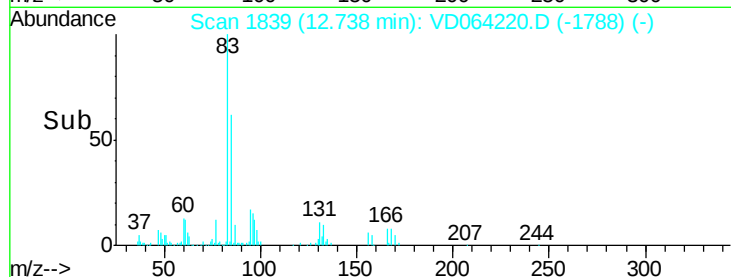
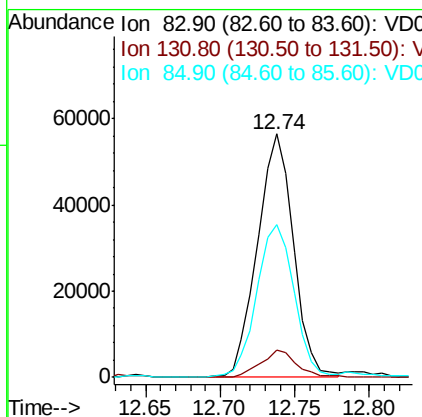
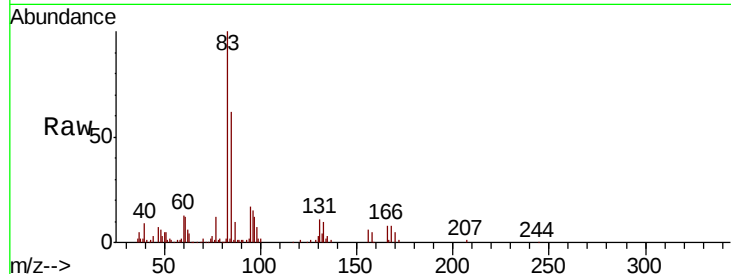
ClientSampleId :

VD1115SBS01

Tot Ion:	83	Resp:	94389
Ion Ratio	Lower	Upper	
83	100		
131	11.2	5.9	17.7
85	65.3	32.5	97.5

Manual Integrations
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11/19/2019 12:23:16 PM



#76

1,2,3-Trichloropropane

Concen: 21.441 ug/l m

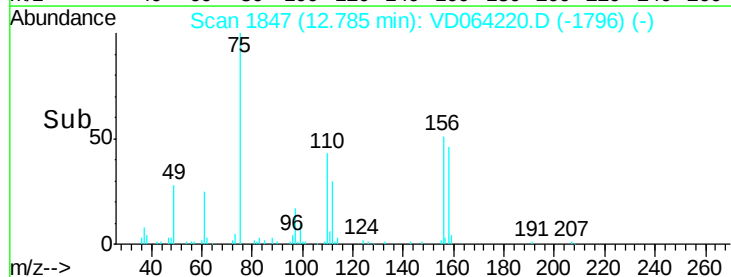
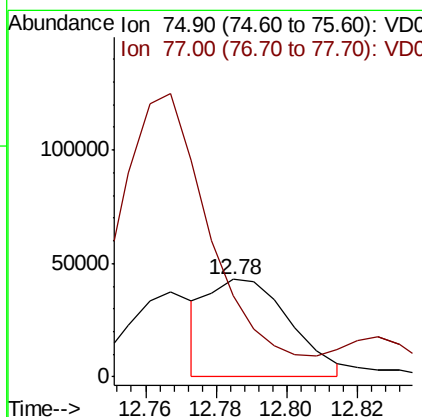
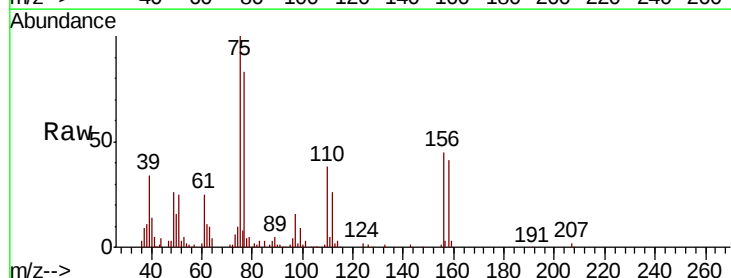
RT: 12.78 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion:	75	Resp:	68917
Ion Ratio	Lower	Upper	
75	100		
77	337.1	0.0	0.0#





#77

Bromobenzene

Concen: 19.928 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

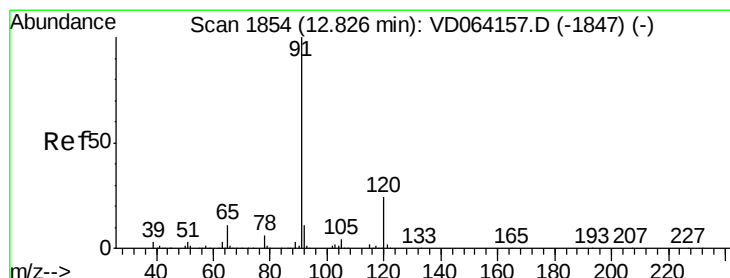
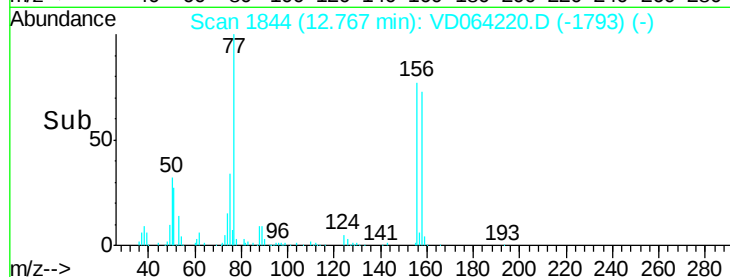
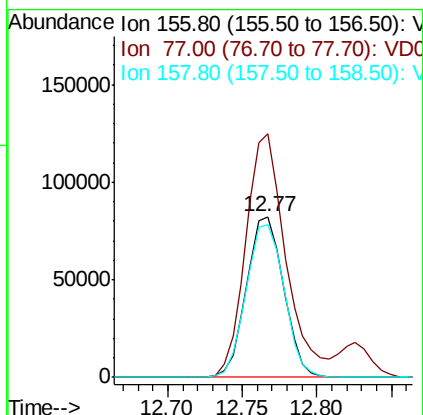
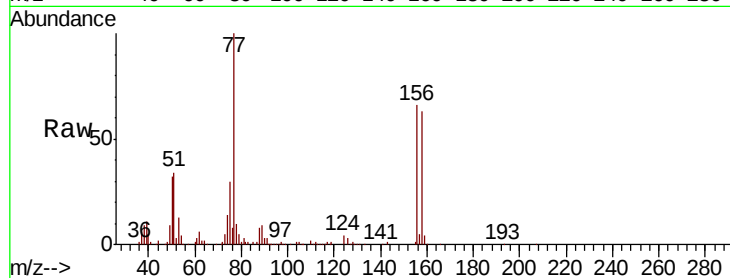
ClientSampleId :

VD1115SBSD01

Tot Ion:	156	Resp:	141811
Ion Ratio	Lower	Upper	
156	100		
77	163.8	81.2	243.4
158	97.1	48.4	145.2

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#78

n-propylbenzene

Concen: 19.984 ug/l

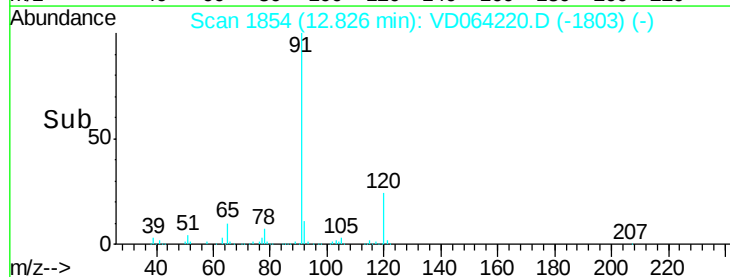
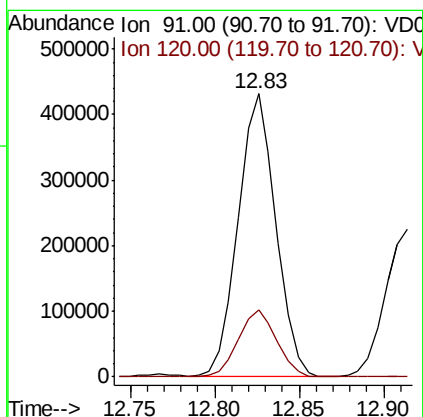
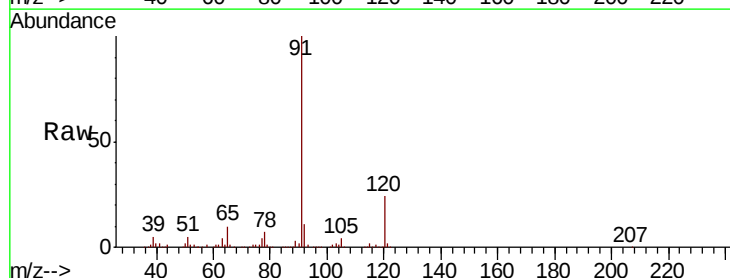
RT: 12.83 min Scan# 1854

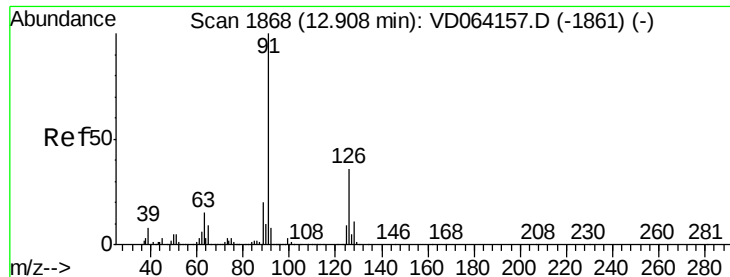
Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion:	91	Resp:	668772
Ion Ratio	Lower	Upper	
91	100		
120	24.0	11.8	35.4





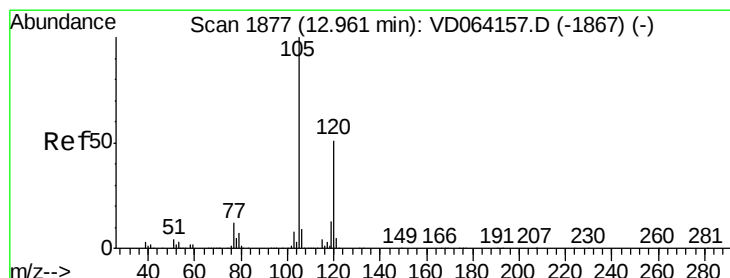
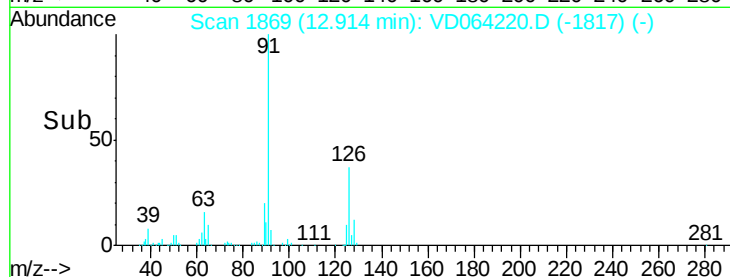
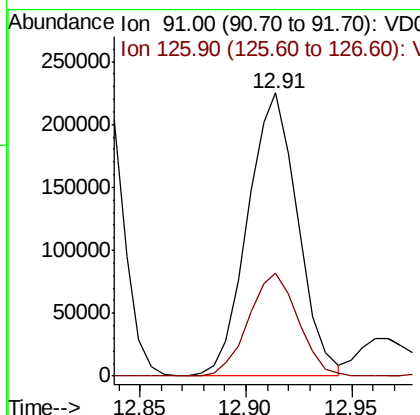
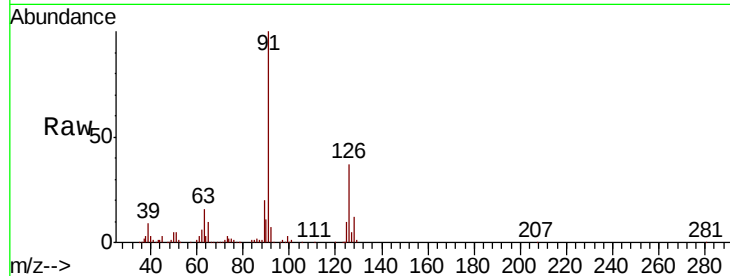
#79
2-Chlorotoluene
Concen: 19.490 ug/l
RT: 12.91 min Scan# 1869
Delta R.T. 0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion: 91 Resp: 368247
Ion Ratio Lower Upper
91 100
126 36.2 17.7 53.1

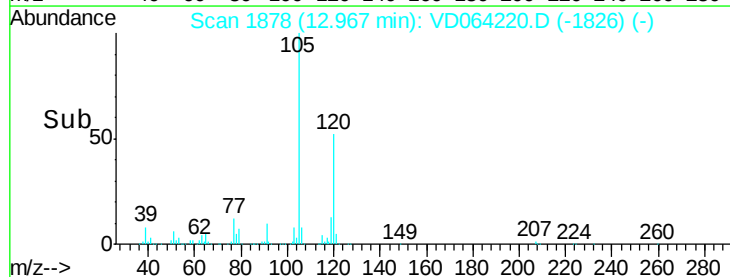
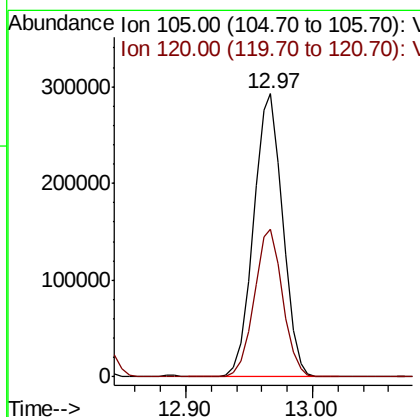
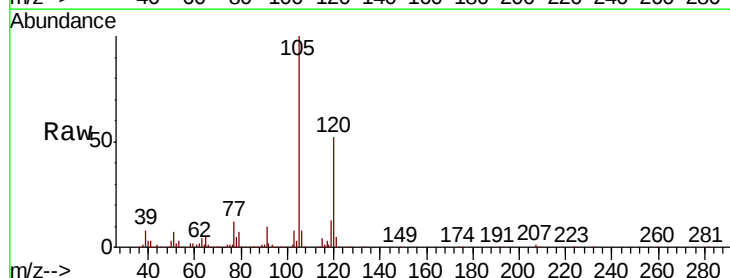
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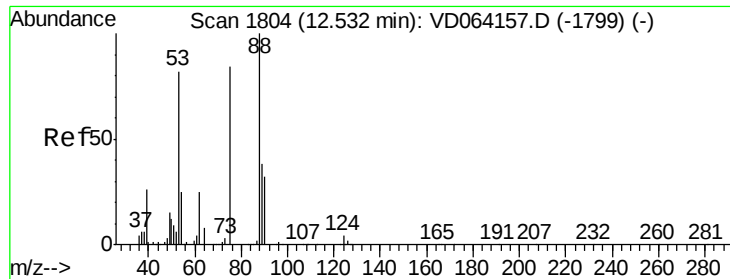
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#80
1,3,5-Trimethylbenzene
Concen: 19.472 ug/l
RT: 12.97 min Scan# 1878
Delta R.T. 0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion: 105 Resp: 468654
Ion Ratio Lower Upper
105 100
120 51.0 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 19.303 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

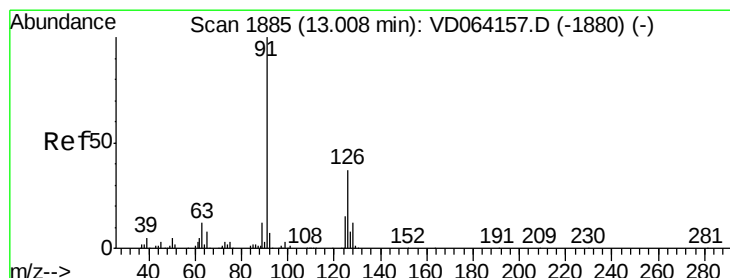
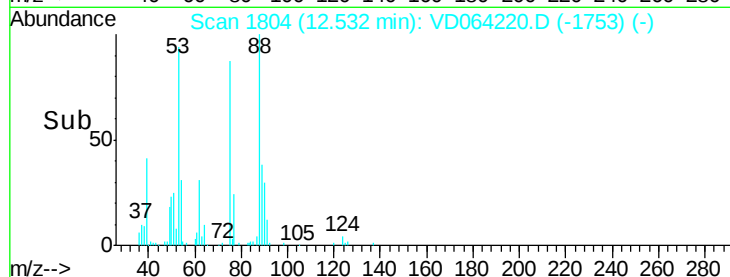
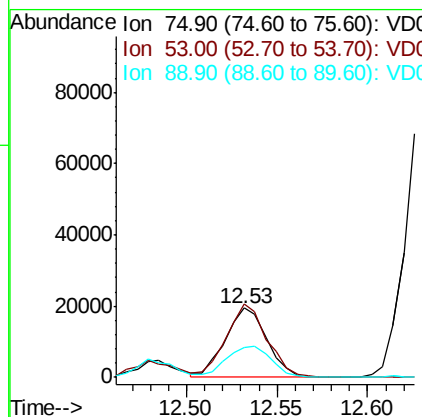
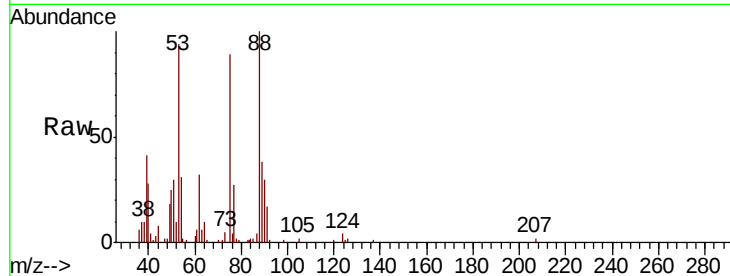
ClientSampleId :

VD1115SBS01

Tot Ion:	75	Resp:	31236
Ion	Ratio	Lower	Upper
75	100		
53	103.5	79.4	119.0
89	47.1	36.6	55.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.807 ug/l

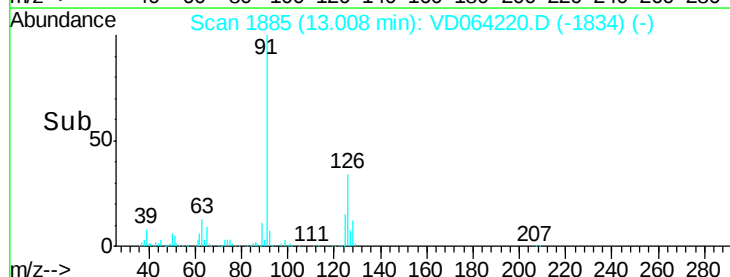
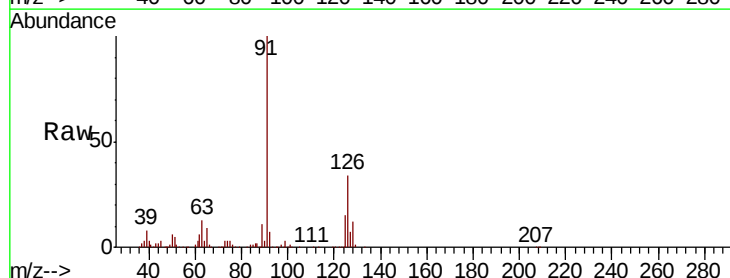
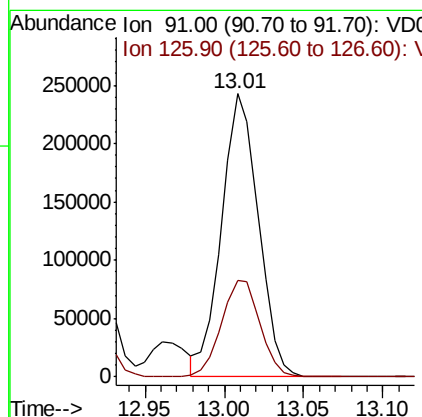
RT: 13.01 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion:	91	Resp:	390333
Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.8	53.4





#83

tert-Butylbenzene

Concen: 19.753 ug/l

RT: 13.23 min Scan# 1922

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

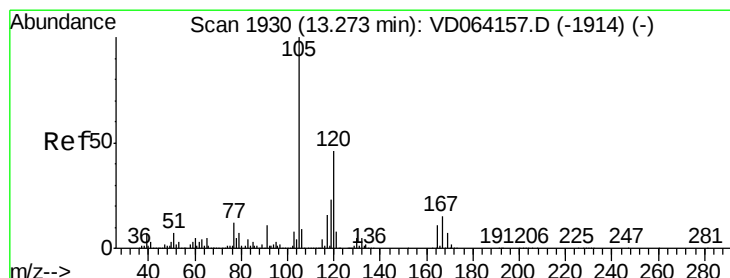
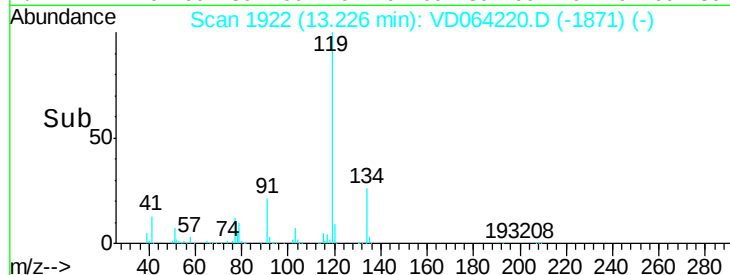
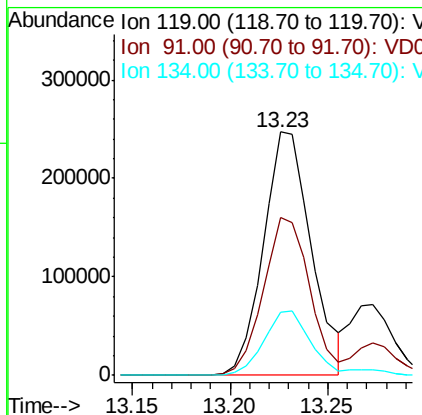
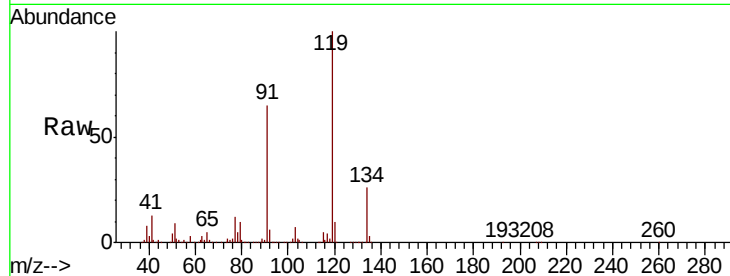
ClientSampleId :

VD1115SBS01

Tot Ion:	119	Resp:	419219
Ion Ratio	Lower	Upper	
119	100		
91	62.8	31.8	95.4
134	25.7	13.7	41.0

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 19.569 ug/l

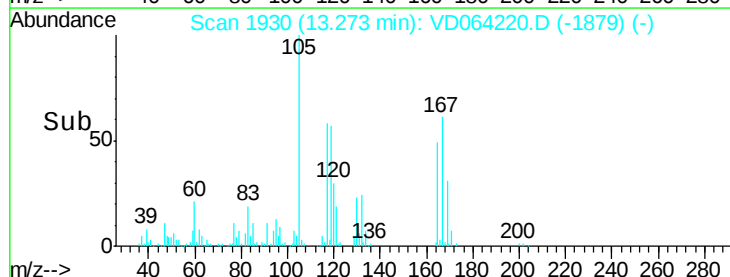
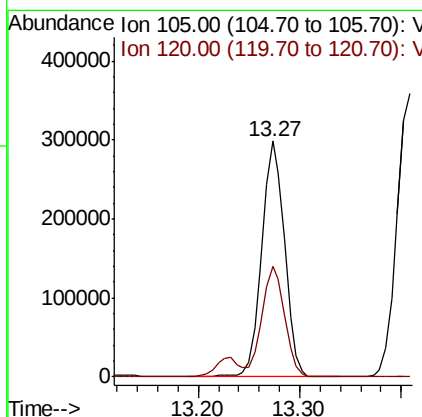
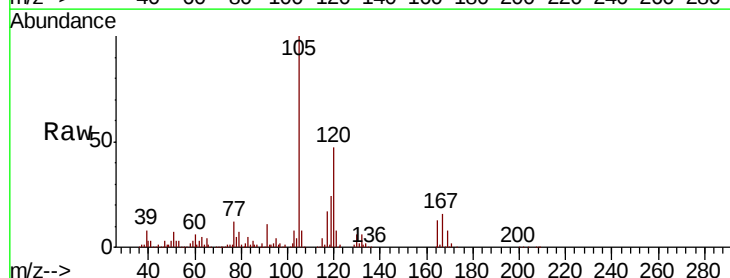
RT: 13.27 min Scan# 1930

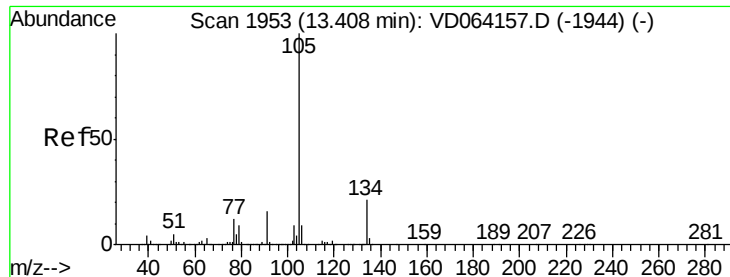
Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion:	105	Resp:	464985
Ion Ratio	Lower	Upper	
105	100		
120	46.8	23.3	69.8





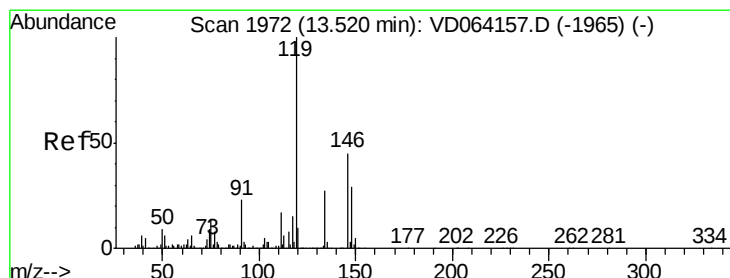
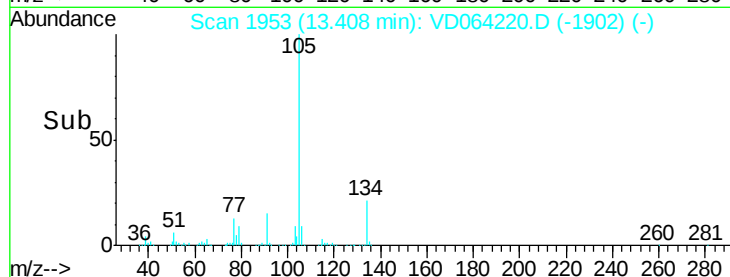
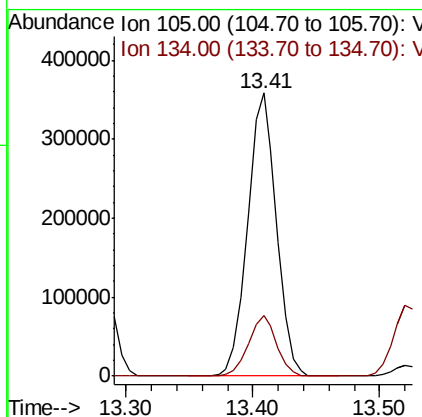
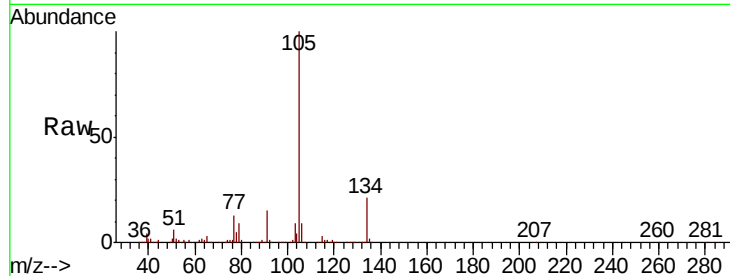
#85
 sec-Butylbenzene
 Concen: 19.800 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.0	10.7	31.9

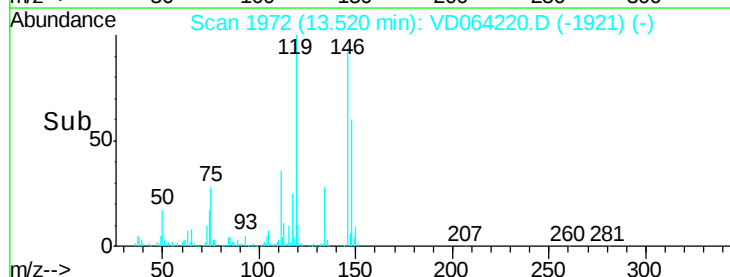
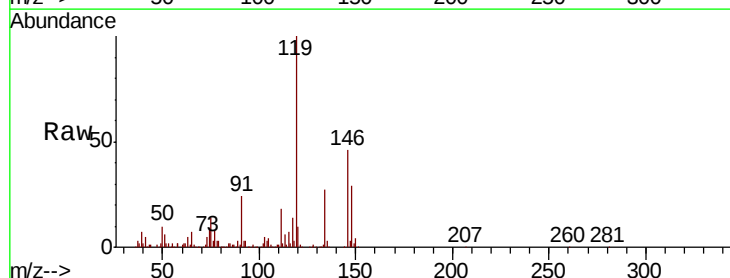
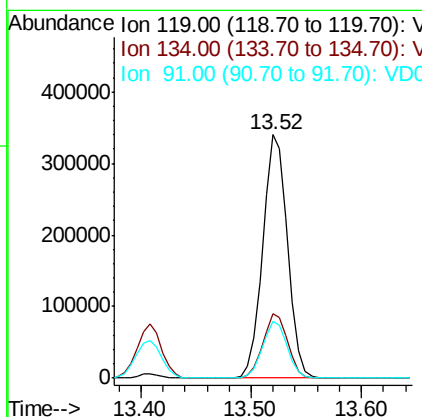
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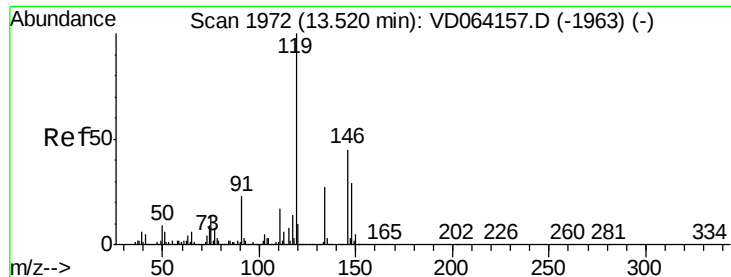
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#86
 p-Isopropyltoluene
 Concen: 19.699 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.5	40.5
91	23.2	11.5	34.4





#87

1,3-Dichlorobenzene

Concen: 19.710 ug/l

RT: 13.52 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Instrument :

MSVOA_D

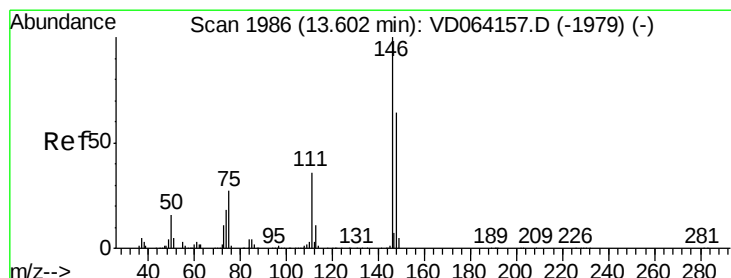
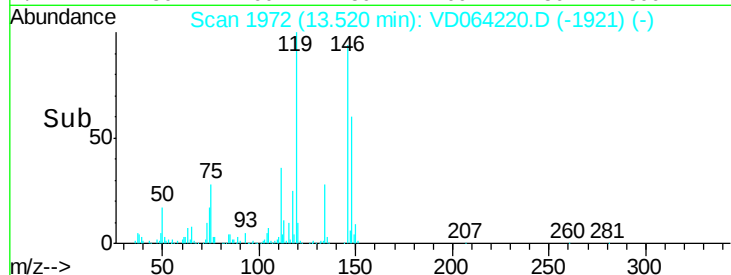
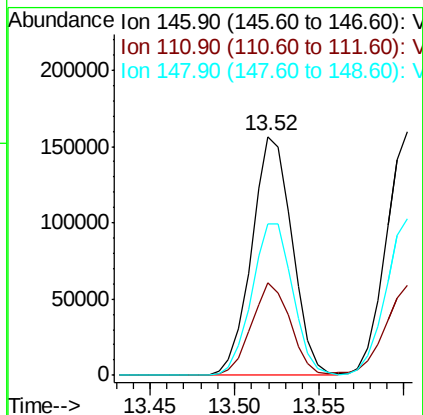
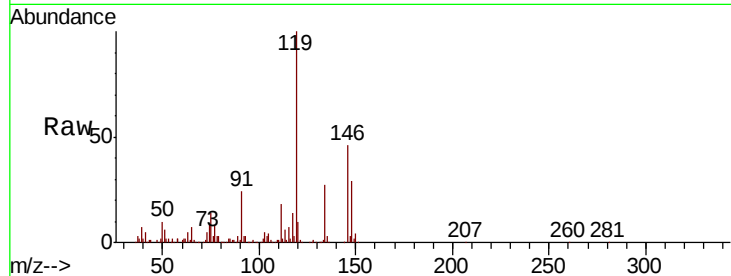
ClientSampleId :

VD1115SBS01

Tot Ion:	146	Resp:	260352
Ion Ratio	Lower	Upper	
146	100		
111	37.3	18.9	56.9
148	64.4	32.1	96.5

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#88

1,4-Dichlorobenzene

Concen: 19.969 ug/l

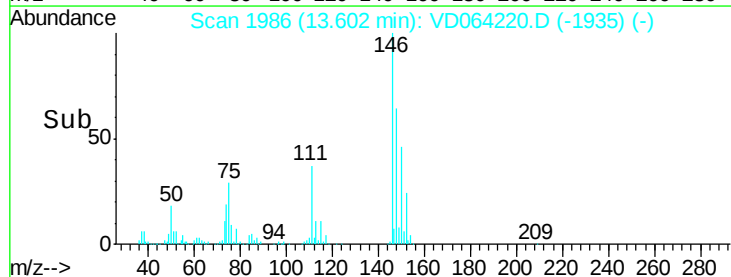
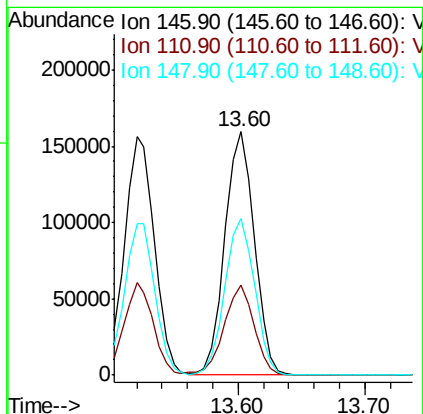
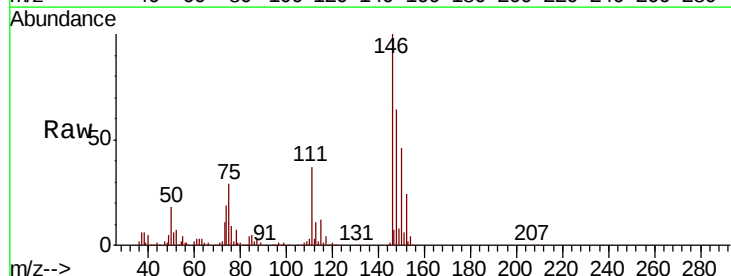
RT: 13.60 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VD064220.D

Acq: 15 Nov 2019 11:45

Tgt Ion:	146	Resp:	257442
Ion Ratio	Lower	Upper	
146	100		
111	37.7	18.1	54.4
148	65.1	31.9	95.7





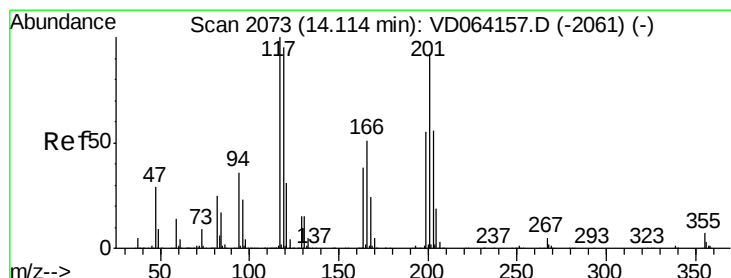
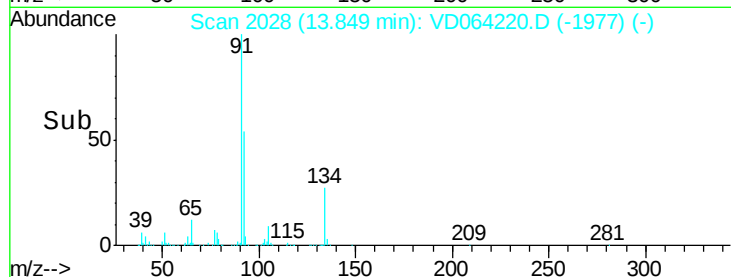
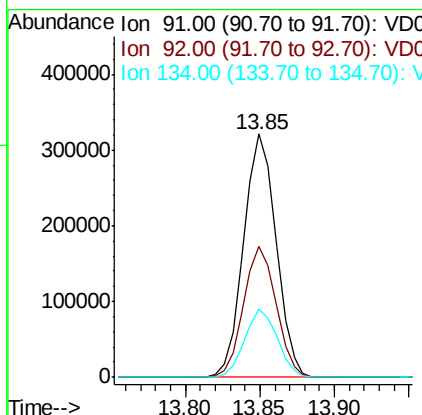
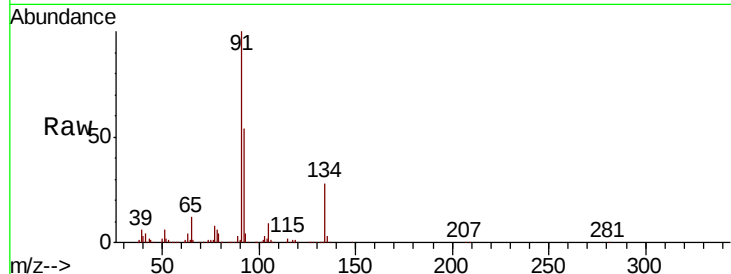
#89
n-Butylbenzene
Concen: 19.767 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.8	27.3	81.8
134	28.0	14.1	42.4

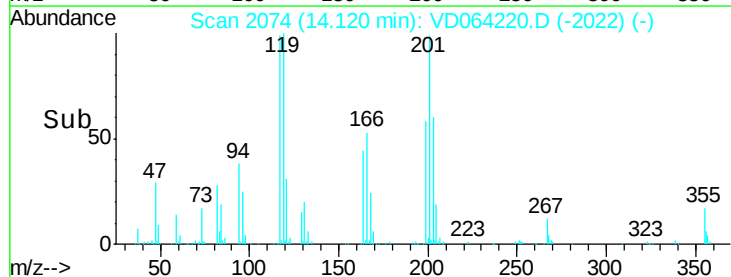
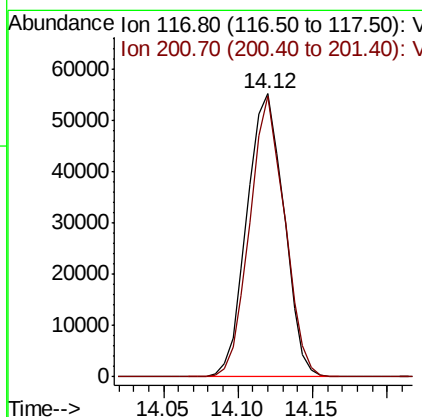
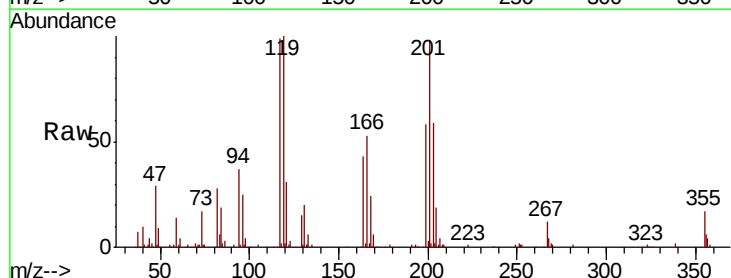
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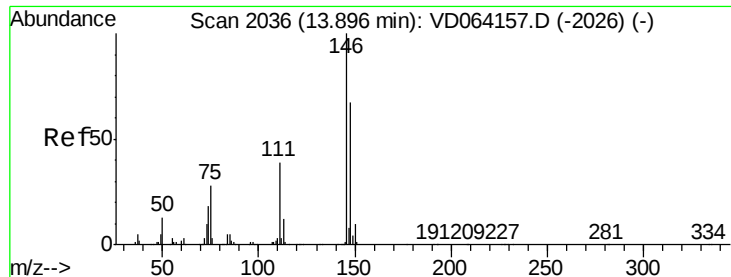
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#90
Hexachloroethane
Concen: 18.953 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.01 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.3	45.8	137.4





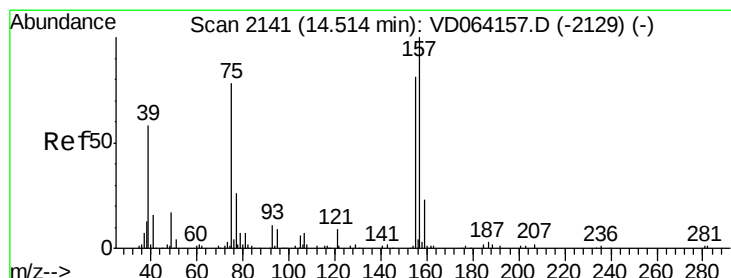
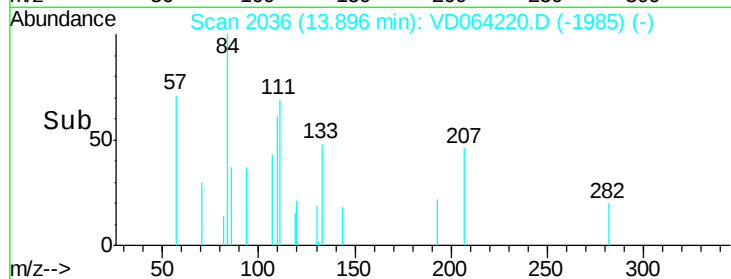
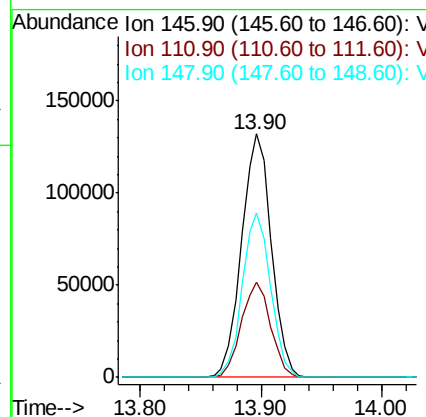
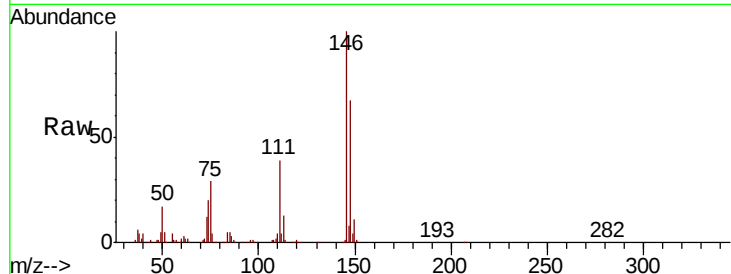
#91
 1,2-Dichlorobenzene
 Concen: 20.327 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.7	59.0
148	64.2	32.3	96.8

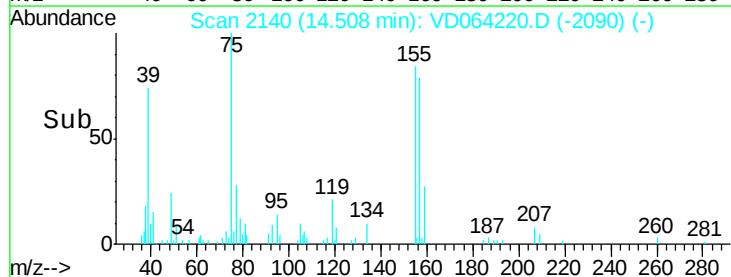
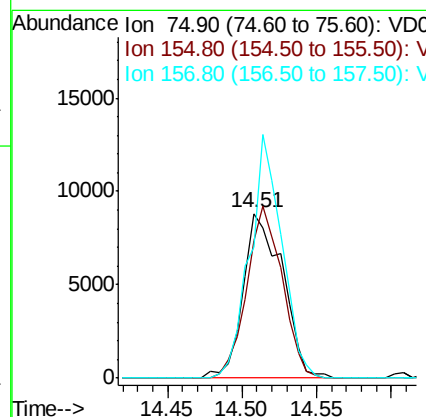
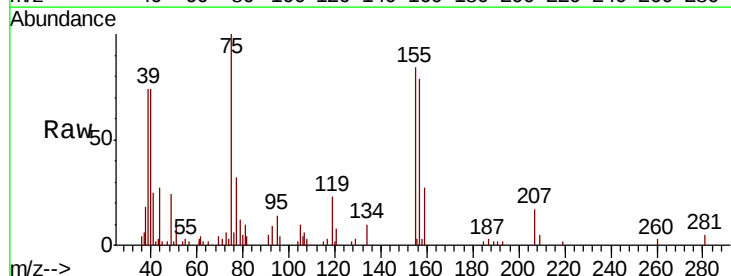
Manual Integrations
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.500 ug/l
 RT: 14.51 min Scan# 2140
 Delta R.T. -0.01 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.2	48.0	144.0
157	119.8	61.5	184.4





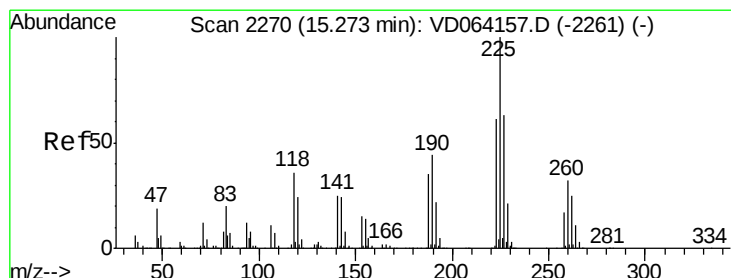
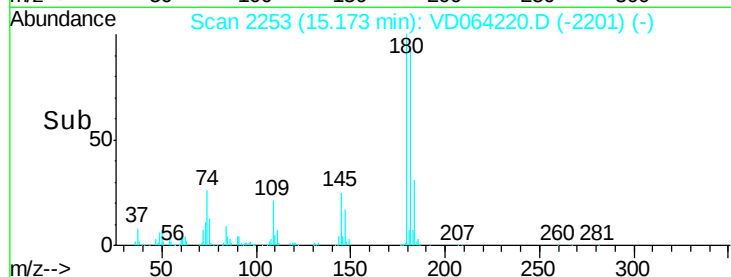
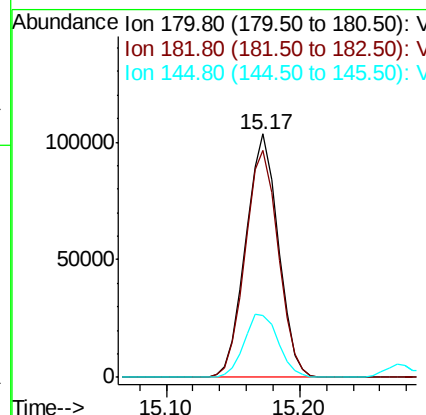
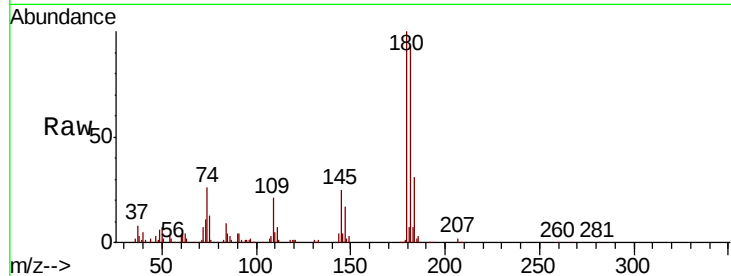
#93
 1,2,4-Trichlorobenzene
 Concen: 20.207 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.01 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1115SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	174285		
182	94.9	47.5	142.5	
145	27.3	14.2	42.6	

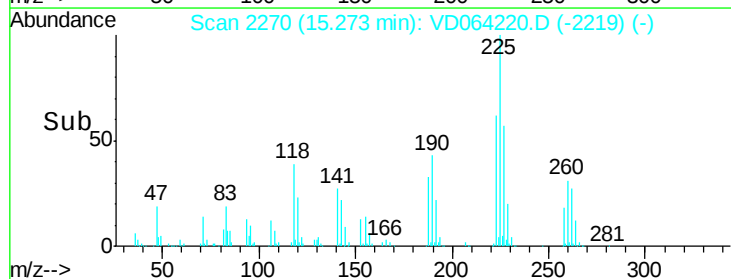
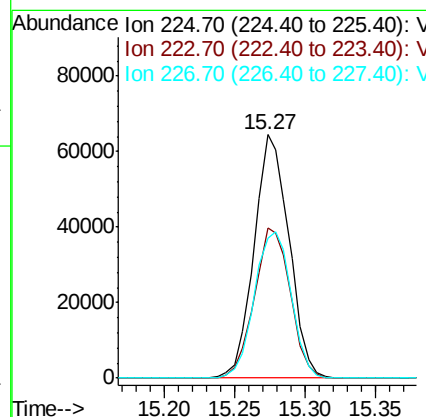
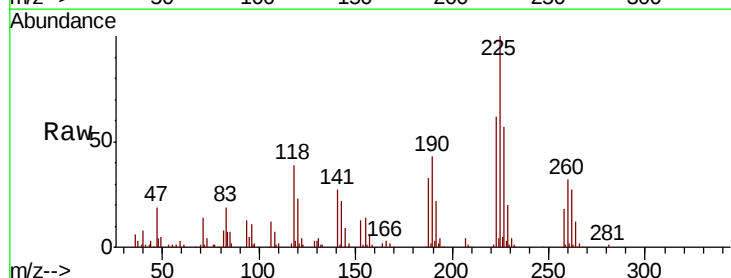
Manual Integrations
 APPROVED

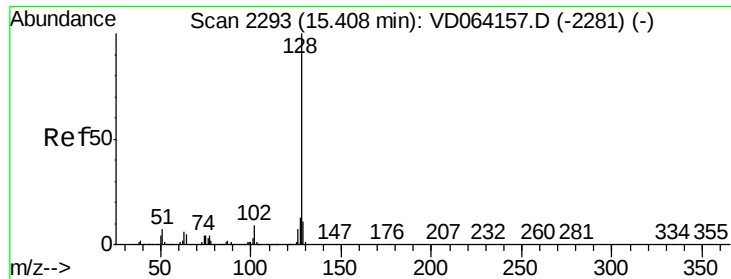
MMDADODA
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#94
 Hexachlorobutadiene
 Concen: 20.085 ug/l
 RT: 15.27 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: VD064220.D
 Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	111892		
223	63.6	31.1	93.3	
227	63.3	31.5	94.5	





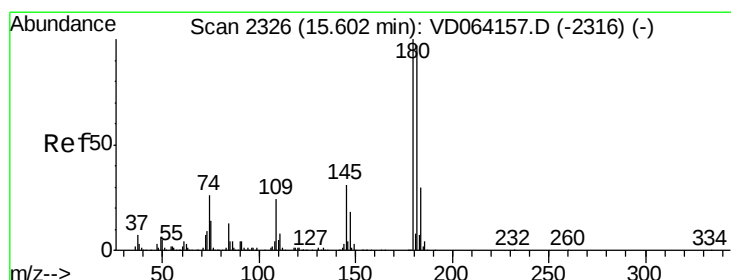
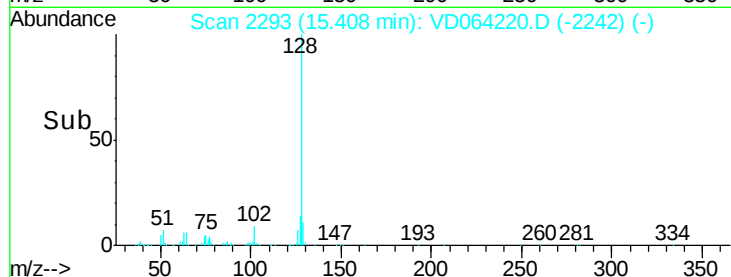
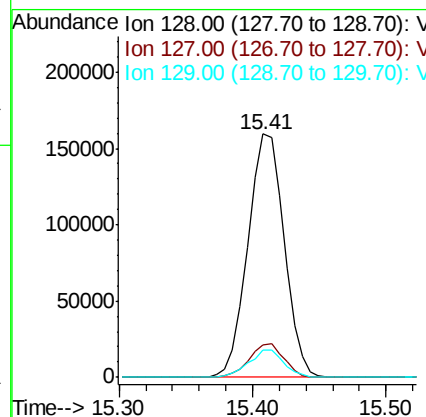
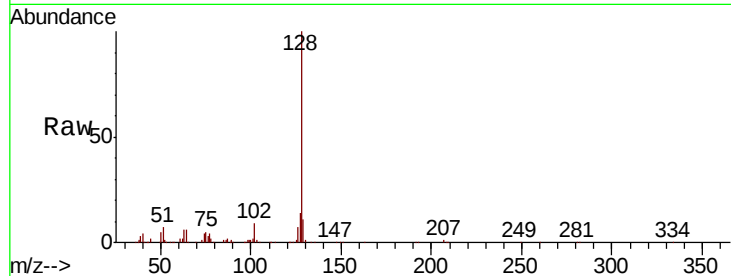
#95
Naphthalene
Concen: 21.155 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Instrument :
MSVOA_D
ClientSampleId :
VD1115SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	299096		
127	13.3		10.5	15.7
129	10.9		8.6	13.0

Manual Integrations
APPROVED

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11/19/2019 12:23:16 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.936 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VD064220.D
Acq: 15 Nov 2019 11:45

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	146157		
182	95.8		48.3	144.9
145	31.7		15.3	45.8

