

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051319\
 Data File : VD062308.D
 Acq On : 13 May 2019 16:49
 Operator : FY/SY
 Sample : K2734-05MSD
 Misc : 4.59g/5mL/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 9:50:40 AM

Quant Time: May 14 05:41:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	453224	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.24	114	580708	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	328437	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	95774	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.48	65	264312	62.75	ug/l	0.05
Spiked Amount	50.000		Recovery	=	125.50%	
35) Dibromofluoromethane	6.95	113	305901	63.49	ug/l	0.05
Spiked Amount	50.000		Recovery	=	126.98%	
50) Toluene-d8	10.42	98	543486	46.78	ug/l	0.02
Spiked Amount	50.000		Recovery	=	93.56%	
62) 4-Bromofluorobenzene	13.56	95	140932	30.21	ug/l	0.01
Spiked Amount	50.000		Recovery	=	60.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.59	85	241602	55.737	ug/l	98
3) Chloromethane	1.76	50	159283	50.854	ug/l	99
4) Vinyl Chloride	1.86	62	164697	53.504	ug/l	98
5) Bromomethane	2.17	94	91678	127.105	ug/l	96
6) Chloroethane	2.29	64	84369	65.318	ug/l	97
7) Trichlorofluoromethane	2.55	101	399764	66.800	ug/l	99
8) Diethyl Ether	2.89	74	55185	47.814	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.17	101	244398	53.986	ug/l	94
10) Methyl Iodide	3.33	142	316060	46.194	ug/l #	84
11) Tert butyl alcohol	4.09	59	52333	243.417	ug/l #	91
12) 1,1-Dichloroethene	3.15	96	171518	49.632	ug/l	85
13) Acrolein	3.05	56	1136	5.109	ug/l #	70
14) Allyl chloride	3.64	41	249486	49.653	ug/l #	78
15) Acrylonitrile	4.22	53	114993	203.492	ug/l #	87
16) Acetone	3.24	43	178056	201.586	ug/l #	85
17) Carbon Disulfide	3.39	76	346672	34.873	ug/l	99
18) Methyl Acetate	3.66	43	306884	195.145	ug/l #	87
19) Methyl tert-butyl Ether	4.26	73	447266	60.383	ug/l	93
20) Methylene Chloride	3.84	84	184673	50.074	ug/l #	88
21) trans-1,2-Dichloroethene	4.24	96	162848	42.348	ug/l	84
22) Diisopropyl ether	5.15	45	595426	55.687	ug/l #	84
23) Vinyl Acetate	5.14	43	254101	45.042	ug/l #	77
24) 1,1-Dichloroethane	5.01	63	352504	54.649	ug/l	97
25) 2-Butanone	6.09	43	212526	220.591	ug/l	97
26) 2,2-Dichloropropane	6.05	77	392948	61.157	ug/l	90
27) cis-1,2-Dichloroethene	6.06	96	186094	43.234	ug/l	86
29) Tetrahydrofuran	6.47	42	104389	235.156	ug/l	95
30) Chloroform	6.69	83	454481	58.463	ug/l	98
31) Cyclohexane	6.99	56	189825	42.955	ug/l	95
32) 1,1,1-Trichloroethane	6.90	97	438369	59.661	ug/l	98
36) 1,1-Dichloropropene	7.16	75	221274	46.474	ug/l	92
37) Ethyl Acetate	6.20	43	21755	10.774	ug/l #	91
38) Carbon Tetrachloride	7.13	117	421606m	63.977	ug/l	
39) Methylcyclohexane	8.88	83	181442	39.774	ug/l	91

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	7.48	78	543544	50.555	ug/l	98
41) Methacrylonitrile	6.46	41	129504	52.483	ug/l #	87
42) 1,2-Dichloroethane	7.60	62	288283	63.286	ug/l	92
43) Isopropyl Acetate	9.26	43	13106	4.577	ug/l #	85
44) Trichloroethene	8.56	130	158344	38.650	ug/l	86
45) 1,2-Dichloropropane	8.95	63	137578	51.733	ug/l	100
46) Dibromomethane	9.08	93	102774	47.524	ug/l	88
47) Bromodichloromethane	9.39	83	314092	59.378	ug/l	99
48) Methyl methacrylate	9.13	41	128649	72.935	ug/l #	82
49) 1,4-Dioxane	9.10	88	18225	957.620	ug/l #	88
51) 4-Methyl-2-Pentanone	10.31	43	485263	263.618	ug/l	92
52) Toluene	10.53	92	307009	43.888	ug/l	99
53) t-1,3-Dichloropropene	10.92	75	177782	38.887	ug/l	94
54) cis-1,3-Dichloropropene	10.06	75	223554	44.823	ug/l #	86
55) 1,1,2-Trichloroethane	11.20	97	127081	51.343	ug/l	96
56) Ethyl methacrylate	11.05	69	18048	7.017	ug/l #	81
57) 1,3-Dichloropropane	11.42	76	182960	48.929	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.87	63	324649	231.079	ug/l	98
59) 2-Hexanone	11.54	43	294551	217.104	ug/l	84
60) Dibromochloromethane	11.70	129	215586	50.400	ug/l	100
61) 1,2-Dibromoethane	11.82	107	124136	41.253	ug/l	91
64) Tetrachloroethene	11.27	164	122944	47.871	ug/l	96
65) Chlorobenzene	12.41	112	276577	45.213	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.53	131	203787	76.545	ug/l	93
67) Ethyl Benzene	12.54	91	538947	52.626	ug/l	96
68) m/p-Xylenes	12.67	106	348336	93.488	ug/l	83
69) o-Xylene	13.06	106	190462	54.983	ug/l	82
70) Stvrene	13.08	104	247896	42.245	ug/l #	88
71) Bromoform	13.24	173	128688	69.476	ug/l	98
73) Isopropylbenzene	13.41	105	519588	90.505	ug/l	95
74) N-amyl acetate	13.27	43	1798	1.195	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	13.71	83	132165	121.605	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	115775	101.718	ug/l	92
77) Bromobenzene	13.68	156	125851	78.309	ug/l	97
78) n-propylbenzene	13.78	91	397980	58.113	ug/l	92
79) 2-Chlorotoluene	13.85	91	298861	76.198	ug/l	87
80) 1,3,5-Trimethylbenzene	13.94	105	405705	83.921	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.48	75	27276	84.888	ug/l #	50
82) 4-Chlorotoluene	13.95	91	288019	62.403	ug/l	82
83) tert-Butylbenzene	14.20	119	486116	89.462	ug/l	94
84) 1,2,4-Trimethylbenzene	14.24	105	389213	80.229	ug/l	85
85) sec-Butylbenzene	14.38	105	337276	56.612	ug/l	98
86) p-Isopropyltoluene	14.49	119	317964	59.736	ug/l	91
87) 1,3-Dichlorobenzene	14.47	146	138248	47.090	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	131371	45.542	ug/l	95
89) n-Butylbenzene	14.80	91	158741	33.226	ug/l	90
90) Hexachloroethane	15.02	117	116960	80.800	ug/l	75
91) 1,2-Dichlorobenzene	14.81	146	141148	58.378	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.39	75	19945	111.795	ug/l	94
93) 1,2,4-Trichlorobenzene	15.95	180	49318	28.024	ug/l	93

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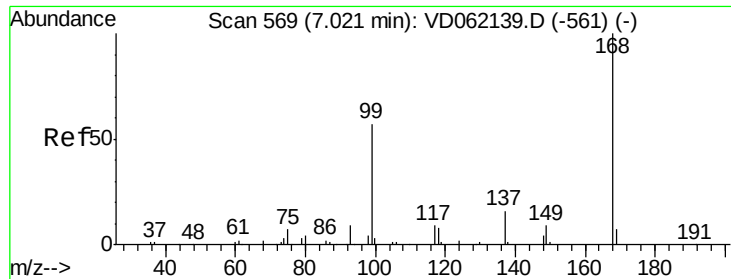
Manual Integrations
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	16.04	225	38620	29.505	ug/l	96
95) Naphthalene	16.13	128	113030	46.004	ug/l	99
96) 1,2,3-Trichlorobenzene	16.28	180	41288	37.315	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:168 Resp: 453224

Ion Ratio Lower Upper

168 100

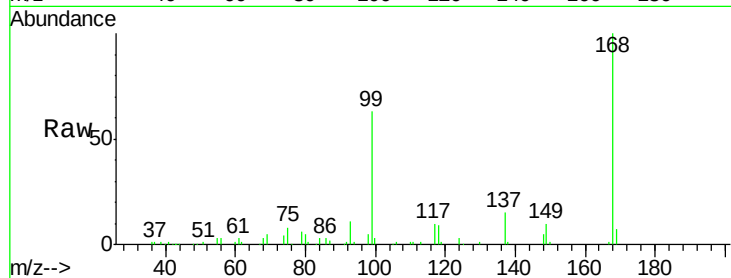
99 63.0 46.5 69.7

Manual Integrations

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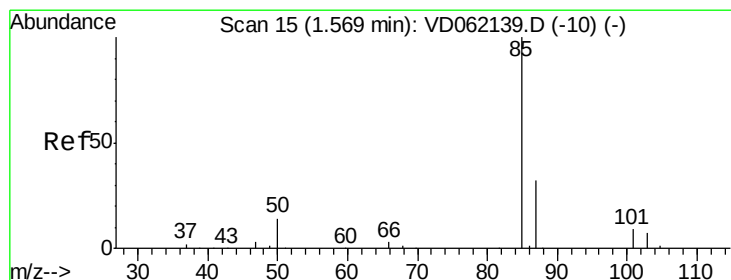
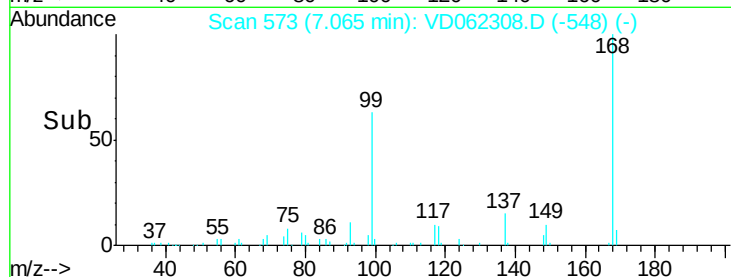
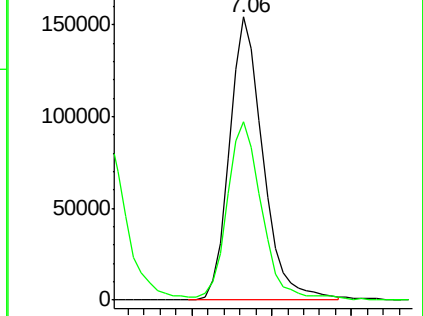
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 55.737 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.02 min

Lab File: VD062308.D

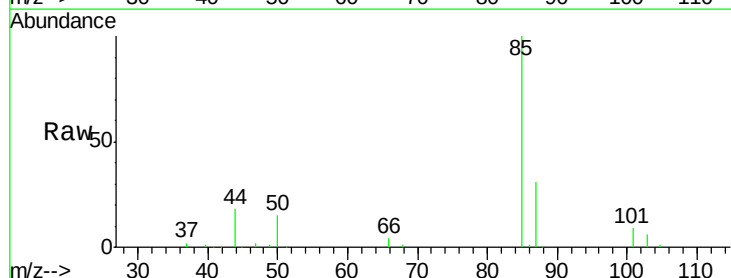
Acq: 13 May 2019 16:49

Tgt Ion: 85 Resp: 241602

Ion Ratio Lower Upper

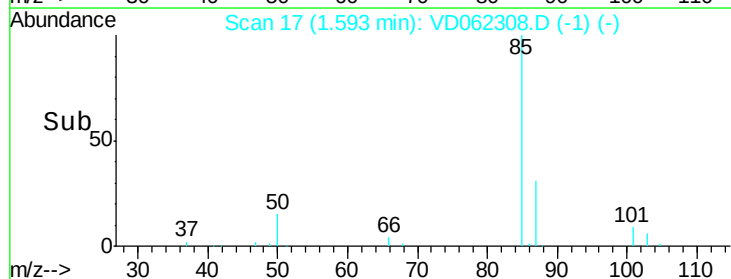
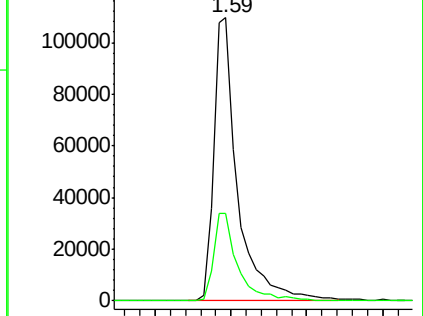
85 100

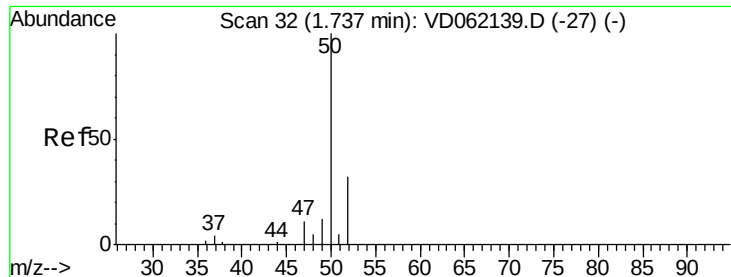
87 31.0 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 50.854 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 50 Resp: 159283

Ion Ratio Lower Upper

50 100

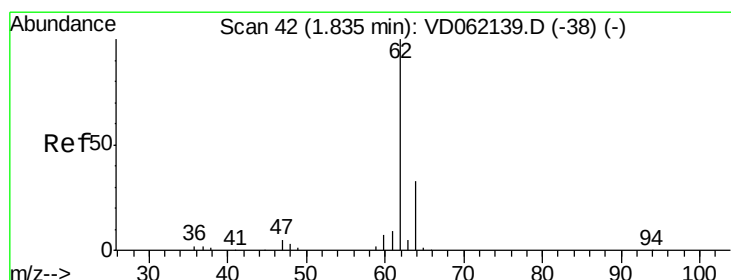
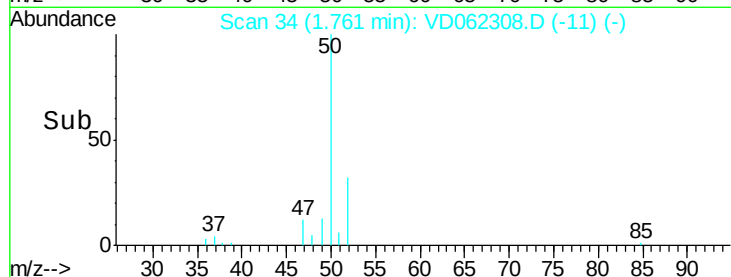
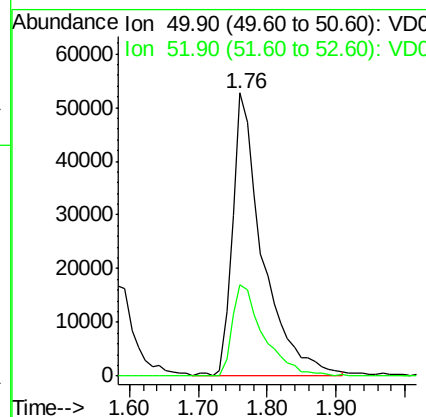
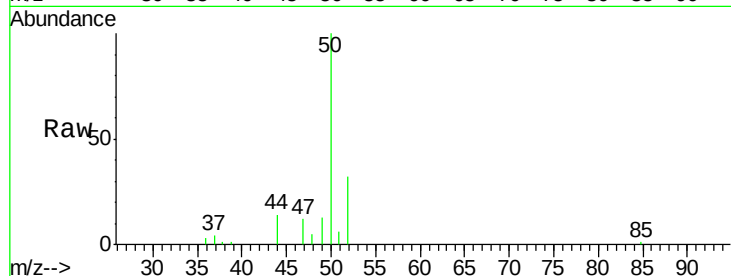
52 32.2 25.2 37.8

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#4

Vinyl Chloride

Concen: 53.504 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.02 min

Lab File: VD062308.D

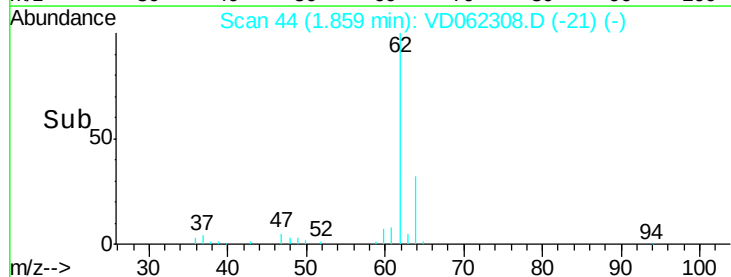
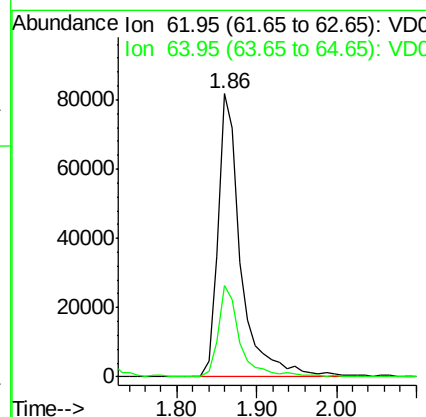
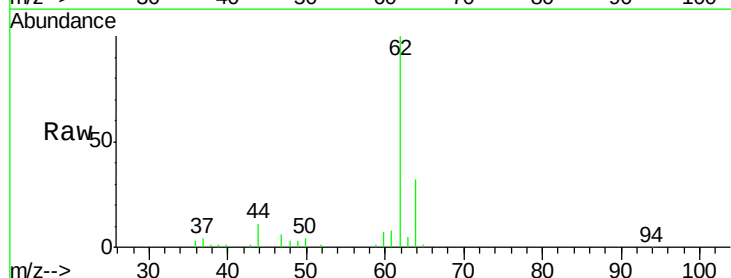
Acq: 13 May 2019 16:49

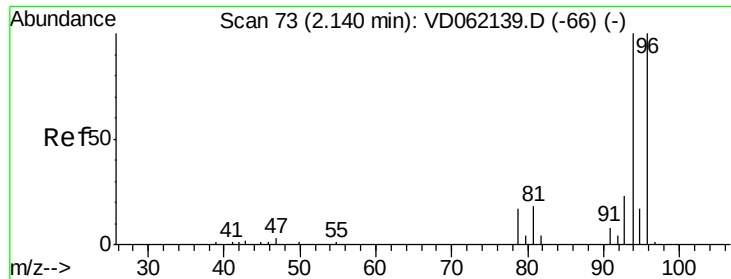
Tgt Ion: 62 Resp: 164697

Ion Ratio Lower Upper

62 100

64 32.2 26.5 39.7





#5

Bromomethane

Concen: 127.105 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.03 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

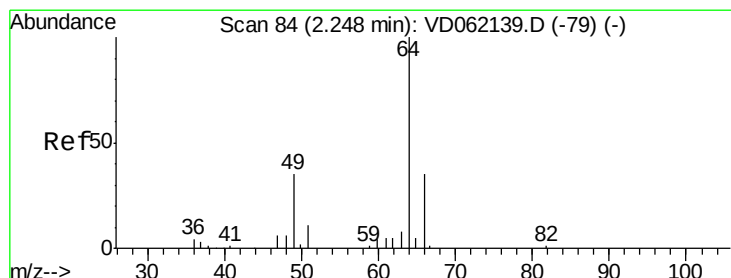
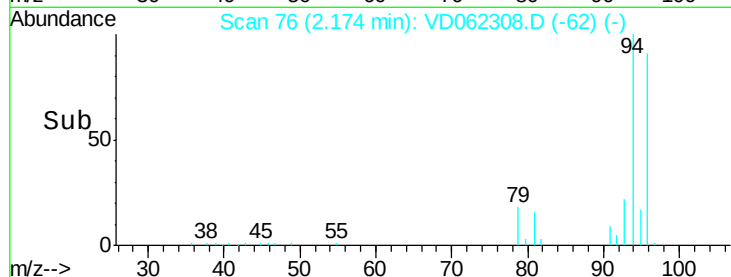
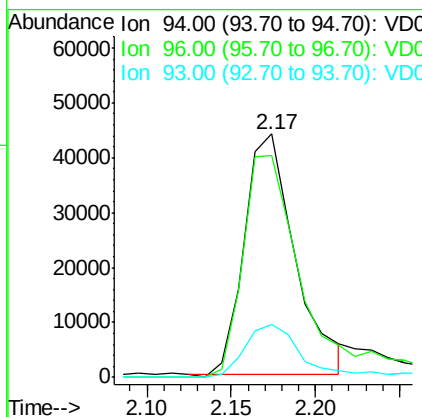
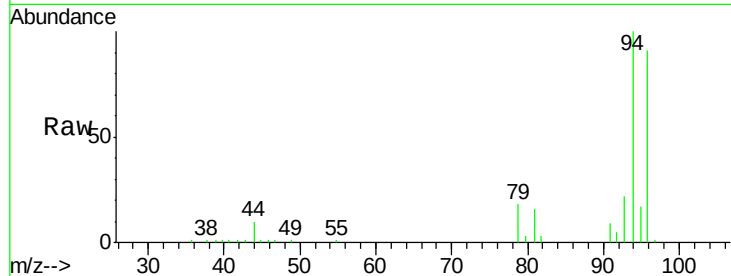
ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:	94	Resp:	91678
Ion	Ratio	Lower	Upper
94	100		
96	91.1	76.6	115.0
93	21.9	18.5	27.7

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#6

Chloroethane

Concen: 65.318 ug/l

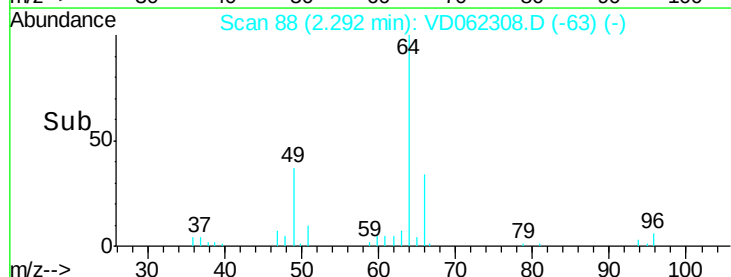
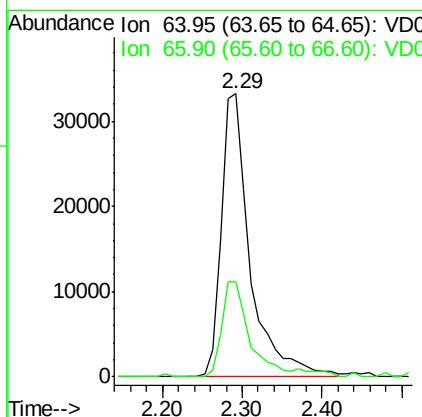
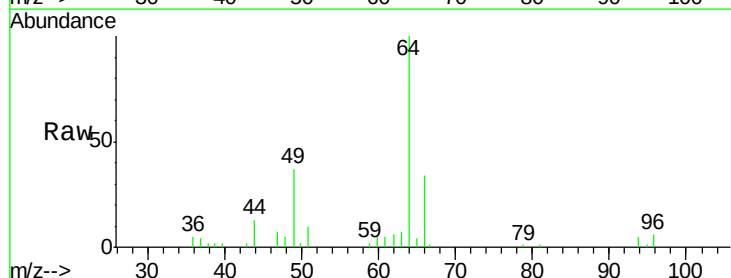
RT: 2.29 min Scan# 88

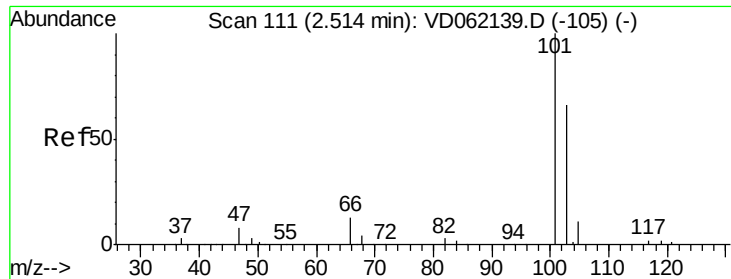
Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Tgt Ion:	64	Resp:	84369
Ion	Ratio	Lower	Upper
64	100		
66	33.7	25.6	38.4





#7

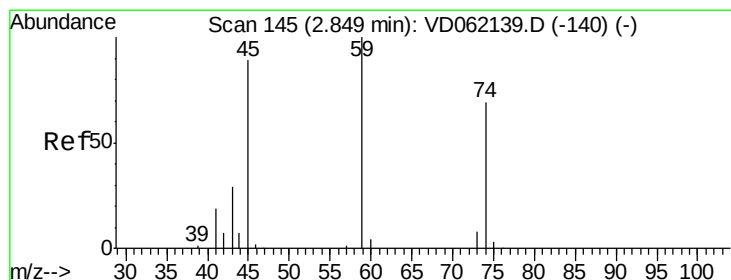
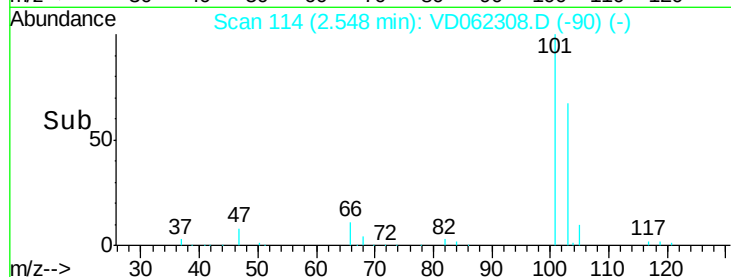
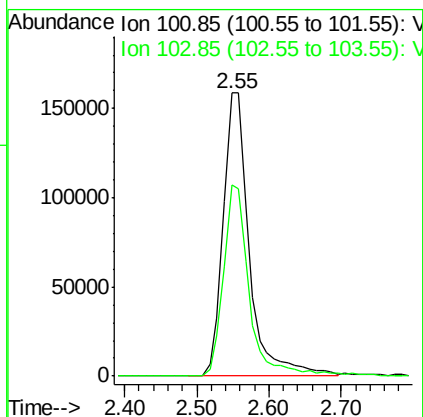
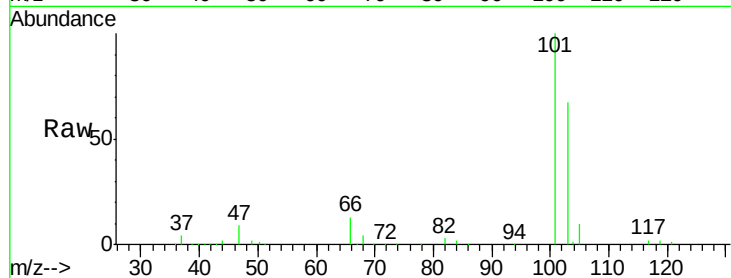
Trichlorofluoromethane
Concen: 66.800 ug/l
RT: 2.55 min Scan# 114
Delta R.T. 0.03 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

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ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion:101 Resp: 399764
Ion Ratio Lower Upper
101 100
103 67.4 53.6 80.4

Manual Integrations
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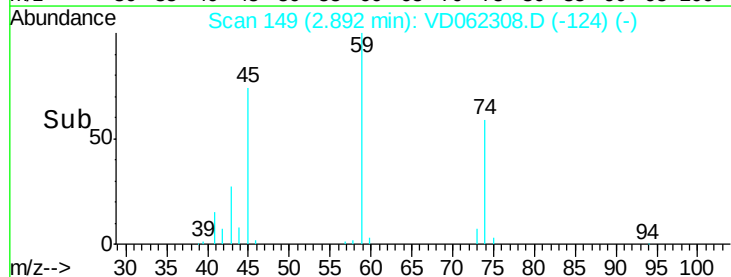
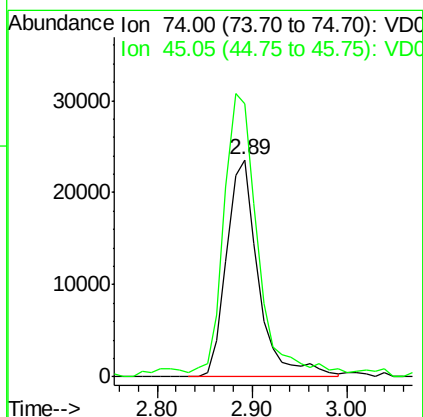
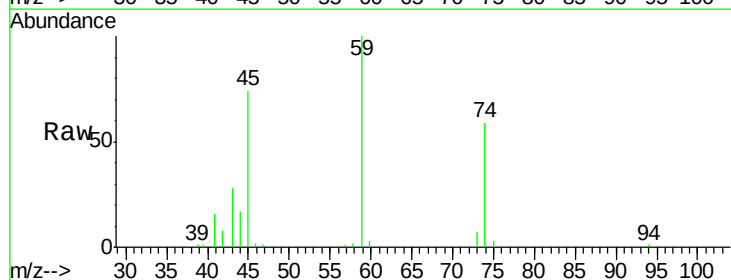
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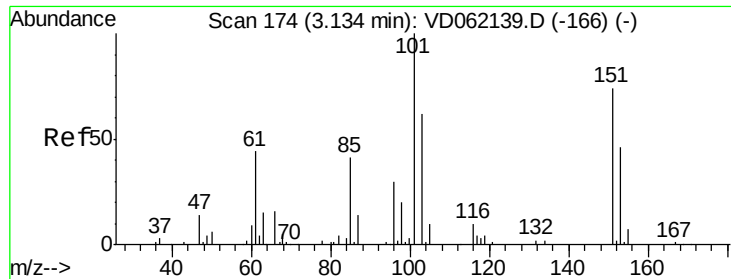


#8

Diethyl Ether
Concen: 47.814 ug/l
RT: 2.89 min Scan# 149
Delta R.T. 0.04 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion: 74 Resp: 55185
Ion Ratio Lower Upper
74 100
45 125.6 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.986 ug/l

RT: 3.17 min Scan# 177

Delta R.T. 0.03 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

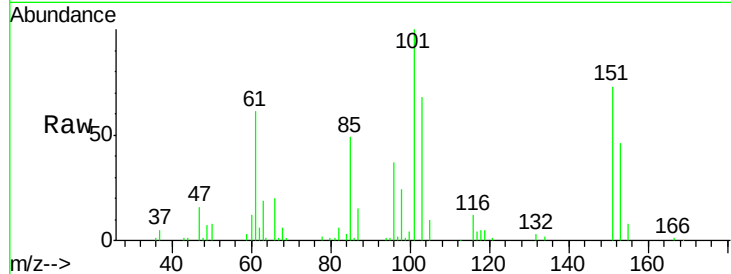
ClientSampleId :

P026-SS012-0002-01MSD

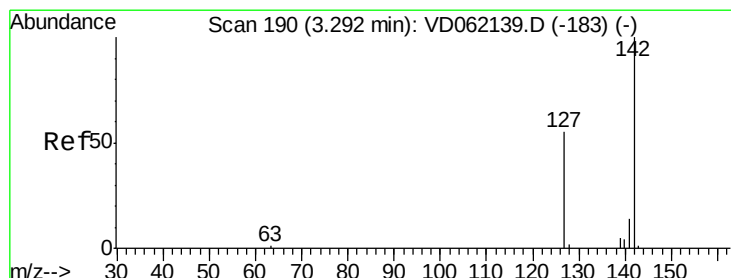
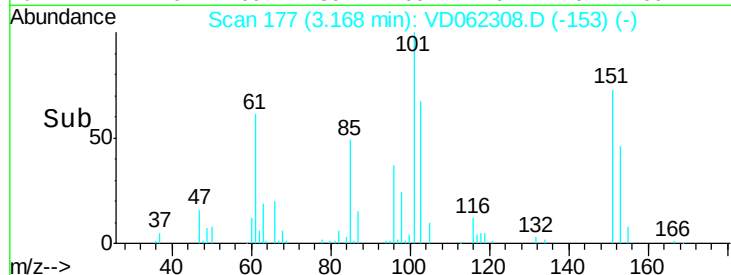
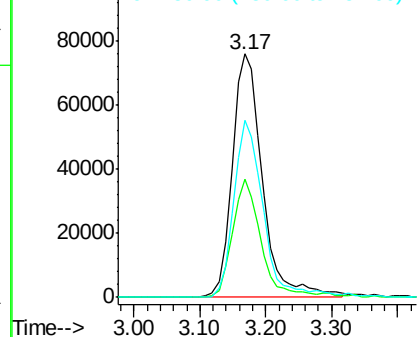
Tot Ion:	101	Resp:	244398
Ion Ratio	Lower	Upper	
101	100		
85	48.6	32.4	48.6
151	72.6	59.4	89.0

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



#10

Methyl Iodide

Concen: 46.194 ug/l

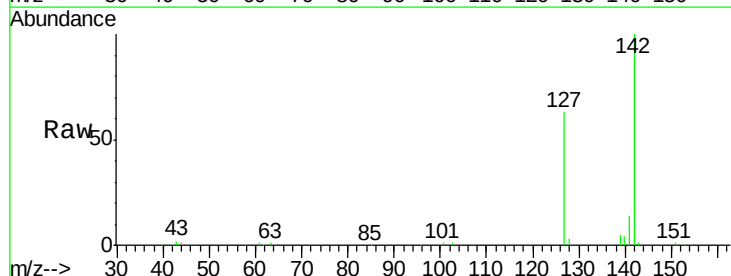
RT: 3.33 min Scan# 193

Delta R.T. 0.03 min

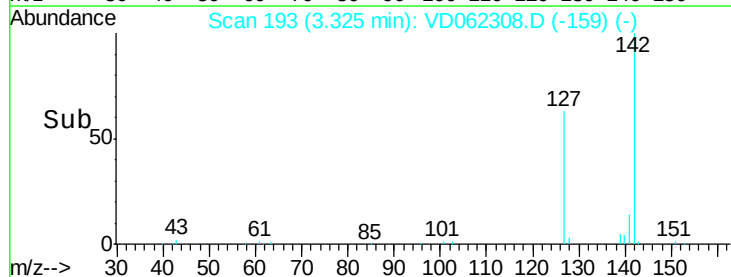
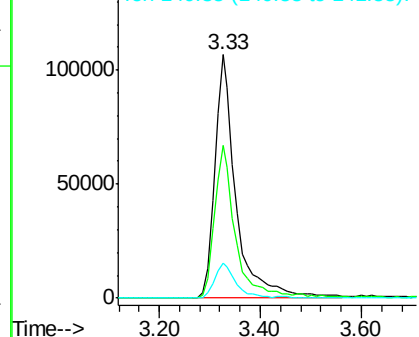
Lab File: VD062308.D

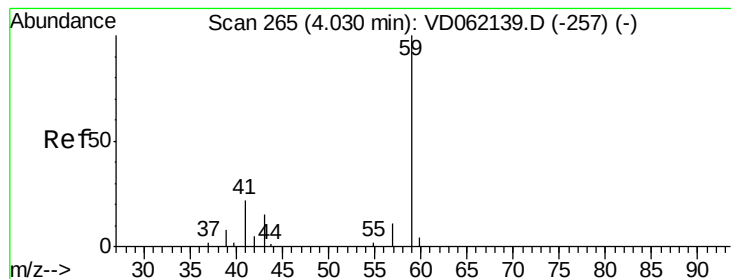
Acq: 13 May 2019 16:49

Tgt Ion:	142	Resp:	316060
Ion Ratio	Lower	Upper	
142	100		
127	62.7	38.8	58.2#
141	14.5	11.4	17.0



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





#11

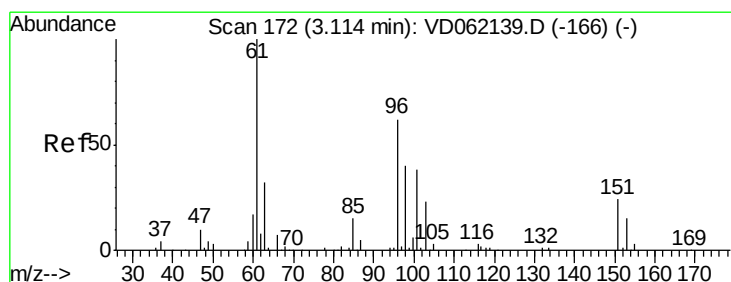
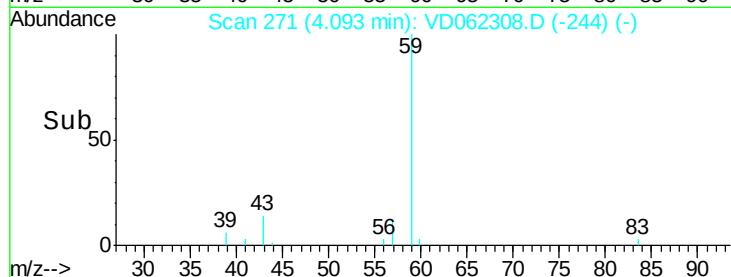
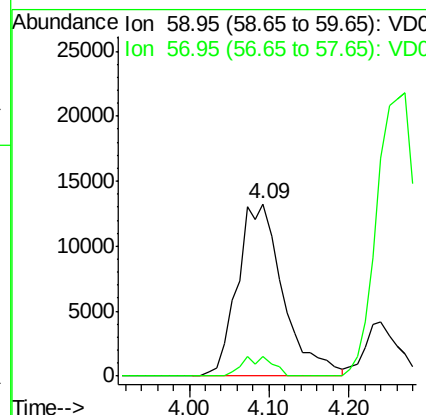
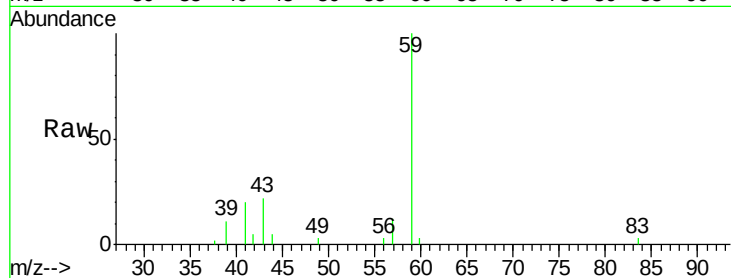
Tert butyl alcohol
 Concen: 243.417 ug/l
 RT: 4.09 min Scan# 271
 Delta R.T. 0.06 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion: 59 Resp: 52333
 Ion Ratio Lower Upper
 59 100
 57 11.7 6.9 10.3#

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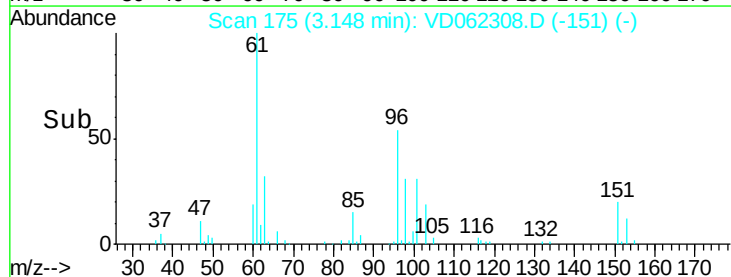
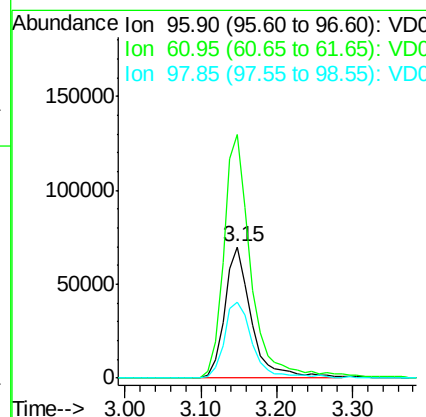
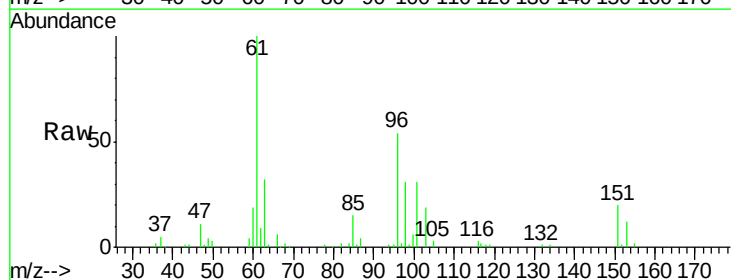
MMDadoda
 5/14/2019 9:50:40 AM

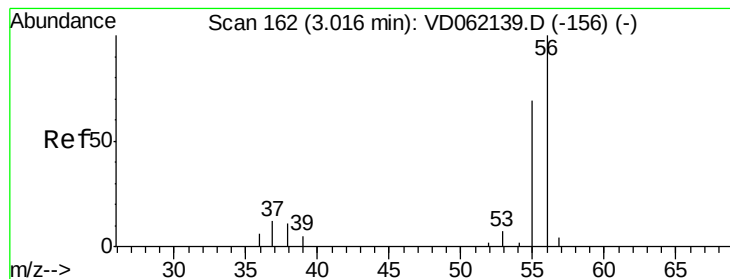


#12

1,1-Dichloroethene
 Concen: 49.632 ug/l
 RT: 3.15 min Scan# 175
 Delta R.T. 0.03 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Tgt Ion: 96 Resp: 171518
 Ion Ratio Lower Upper
 96 100
 61 185.5 129.8 194.8
 98 58.3 51.2 76.8





#13

Acrolein

Concen: 5.109 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.03 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 56 Resp: 1136

Ion Ratio Lower Upper

56 100

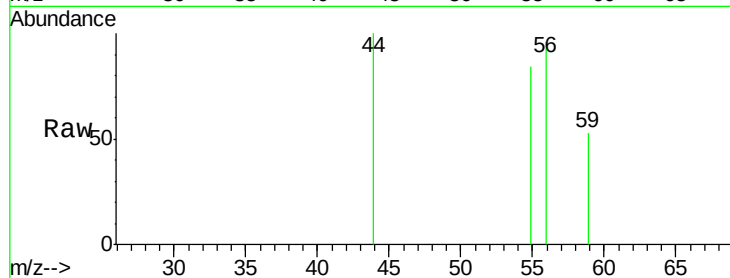
55 87.5 51.4 77.2#

Manual Integrations

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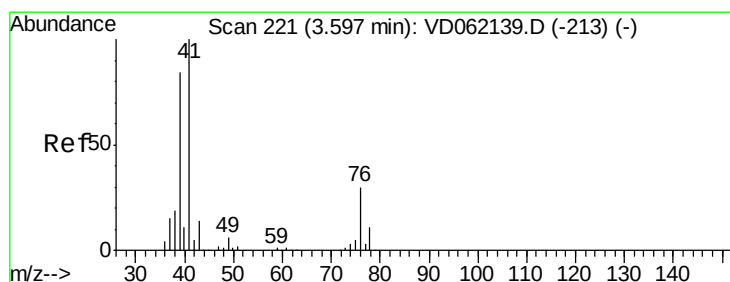
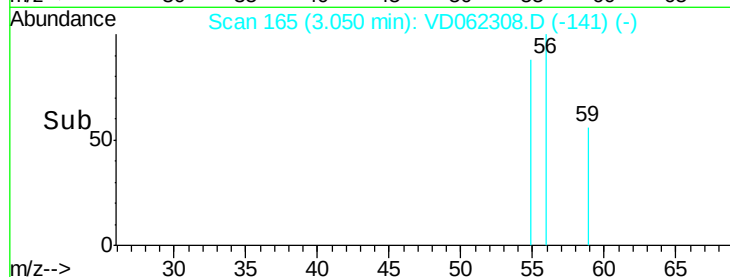
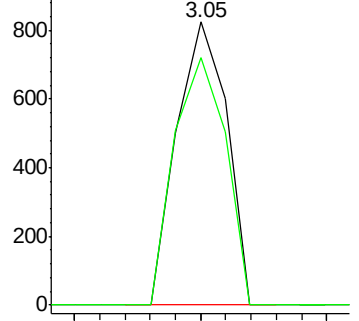
MMDadoda

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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 49.653 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

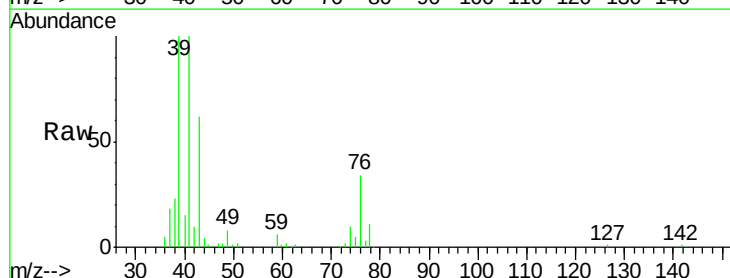
Tgt Ion: 41 Resp: 249486

Ion Ratio Lower Upper

41 100

39 99.6 60.5 90.7#

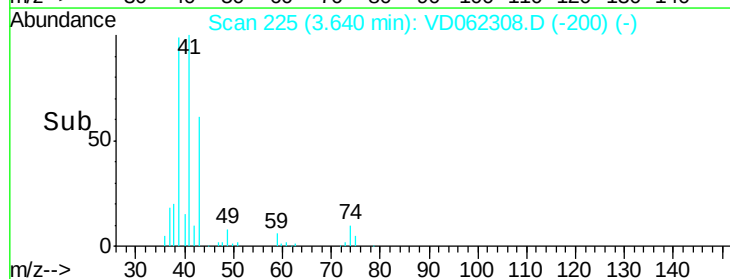
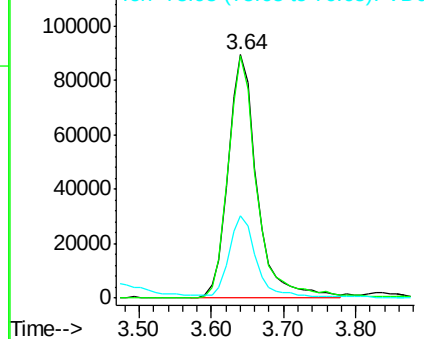
76 33.6 31.8 47.8

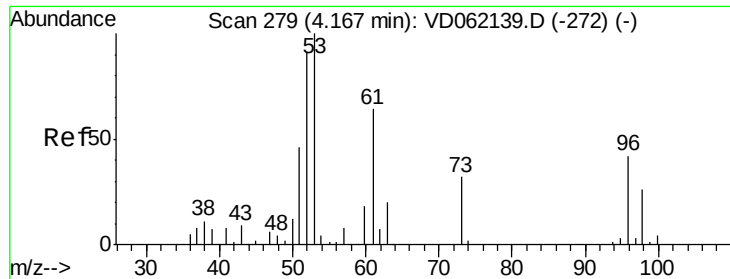


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 203.492 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.05 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 53 Resp: 114993

Ion Ratio Lower Upper

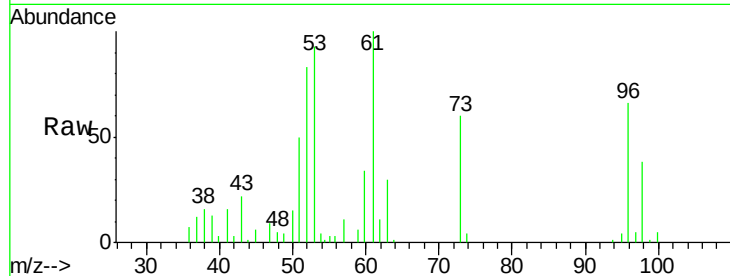
53 100

52 89.3 65.0 97.4

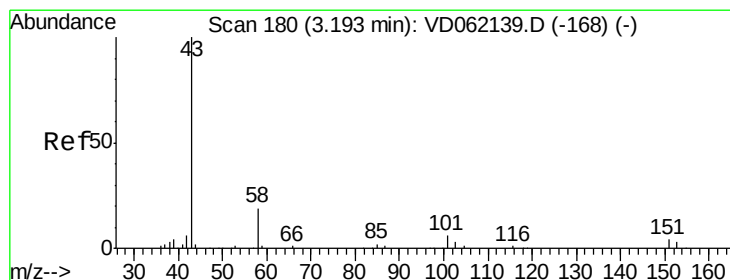
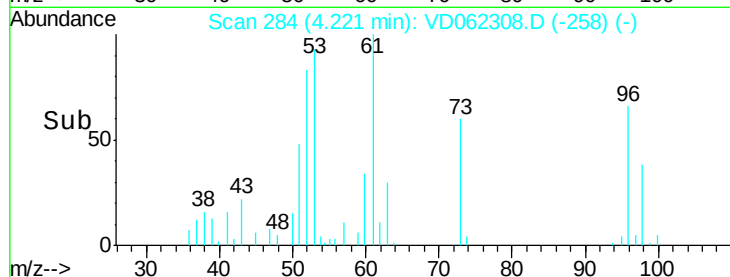
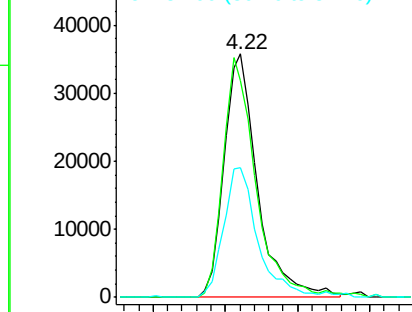
51 53.5 32.6 48.8#

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Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 201.586 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.04 min

Lab File: VD062308.D

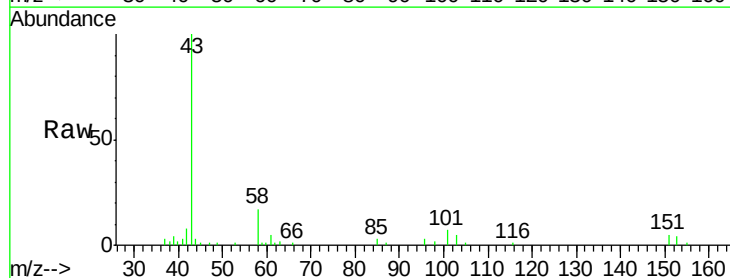
Acq: 13 May 2019 16:49

Tgt Ion: 43 Resp: 178056

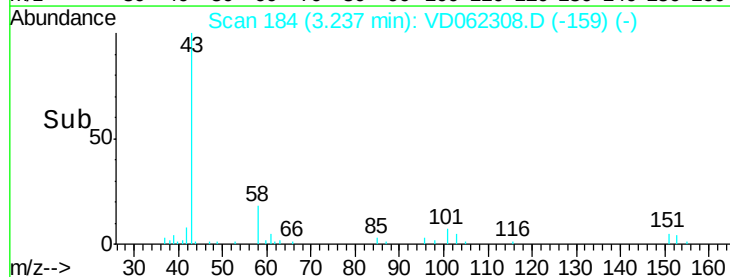
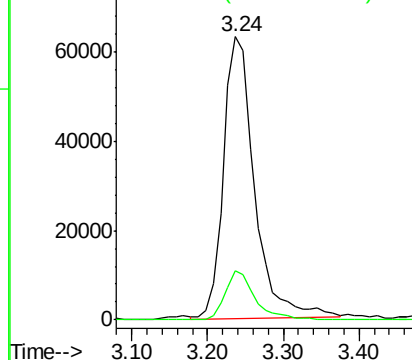
Ion Ratio Lower Upper

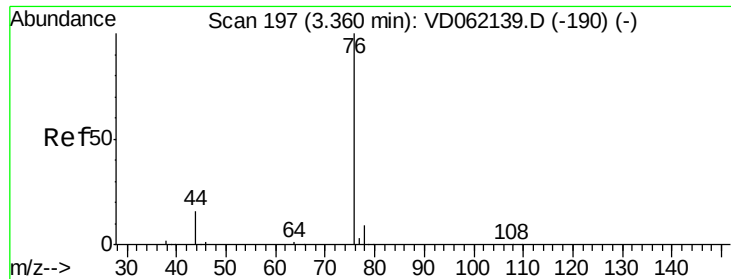
43 100

58 17.5 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 34.873 ug/l

RT: 3.39 min Scan# 200

Delta R.T. 0.03 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 76 Resp: 346672

Ion Ratio Lower Upper

76 100

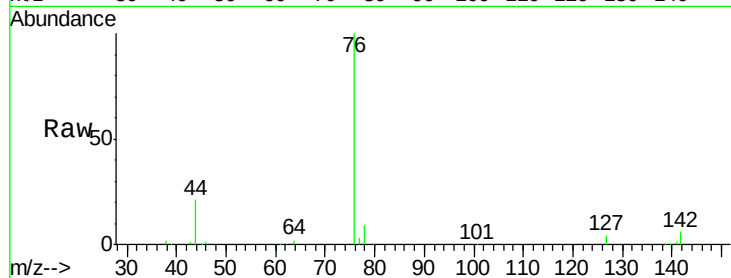
78 8.5 7.2 10.8

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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.39

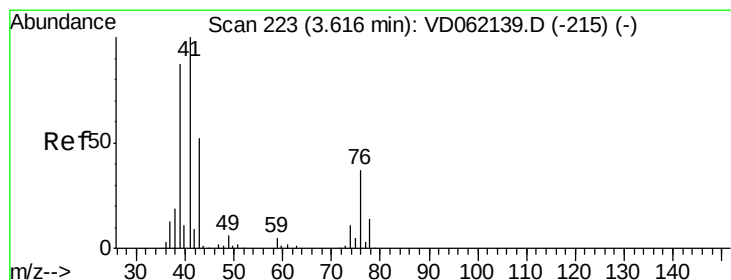
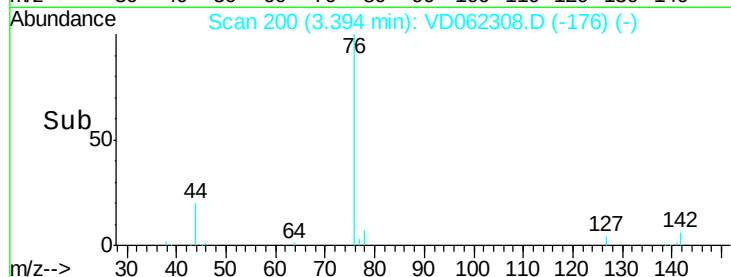
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 195.145 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.04 min

Lab File: VD062308.D

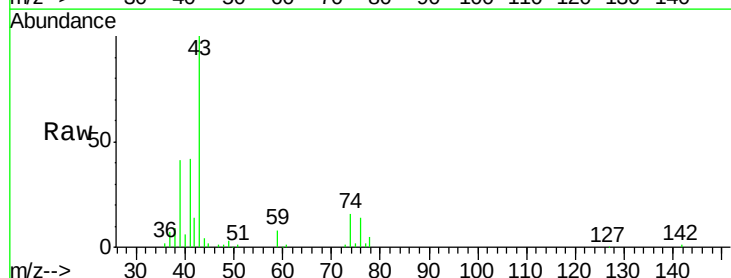
Acq: 13 May 2019 16:49

Tgt Ion: 43 Resp: 306884

Ion Ratio Lower Upper

43 100

74 16.4 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.66

120000

100000

80000

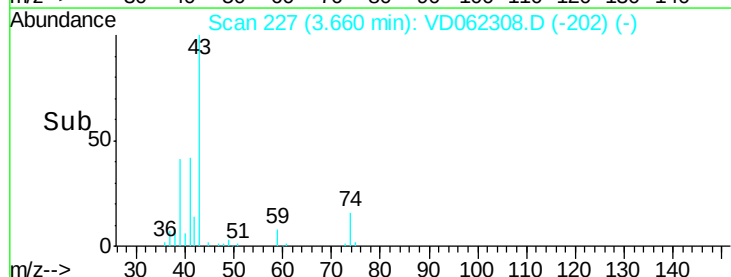
60000

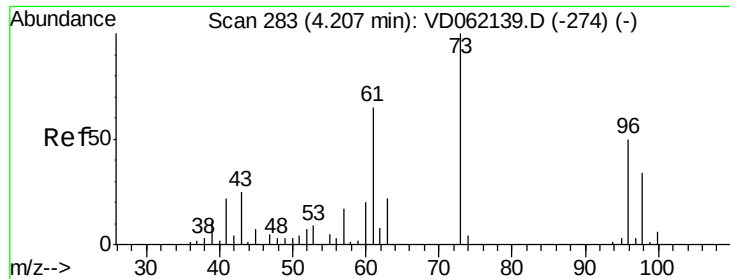
40000

20000

0

Time-->





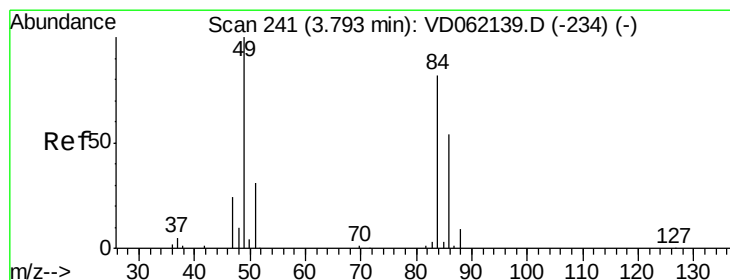
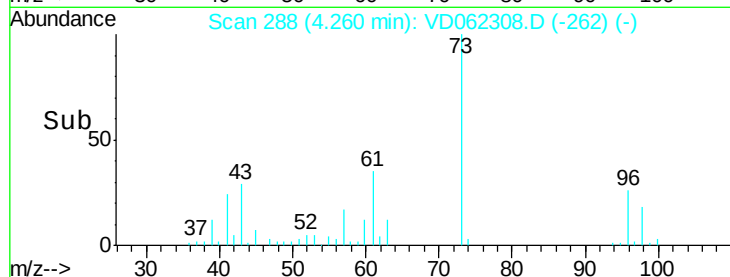
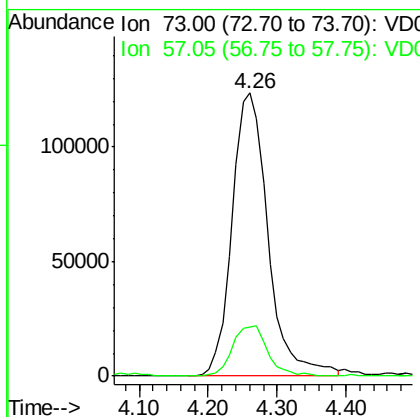
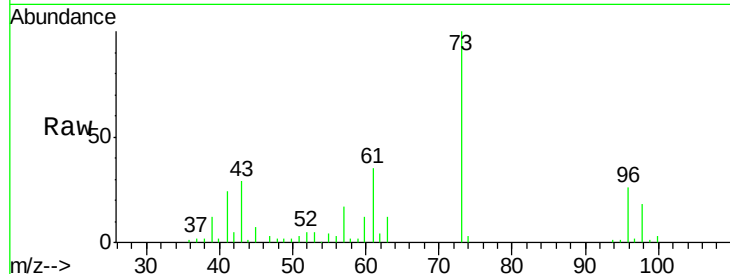
#19
Methyl tert-butyl Ether
Concen: 60.383 ug/l
RT: 4.26 min Scan# 288
Delta R.T. 0.05 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion: 73 Resp: 447266
Ion Ratio Lower Upper
73 100
57 17.3 16.3 24.5

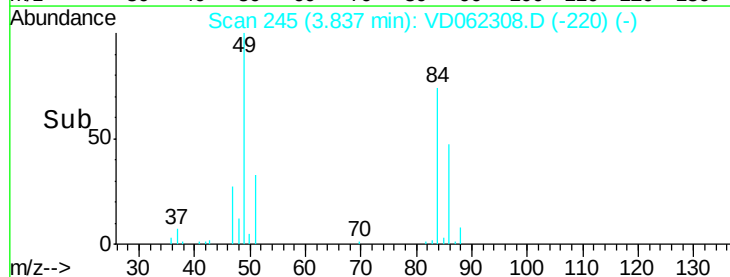
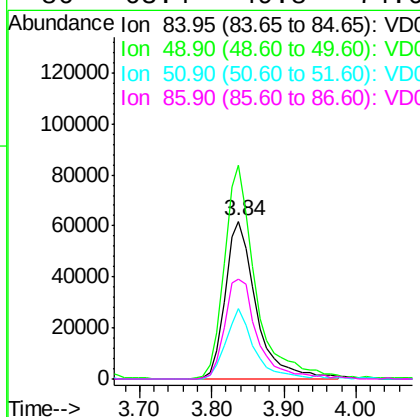
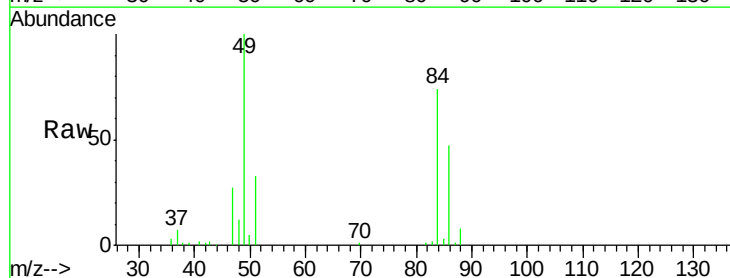
Manual Integrations
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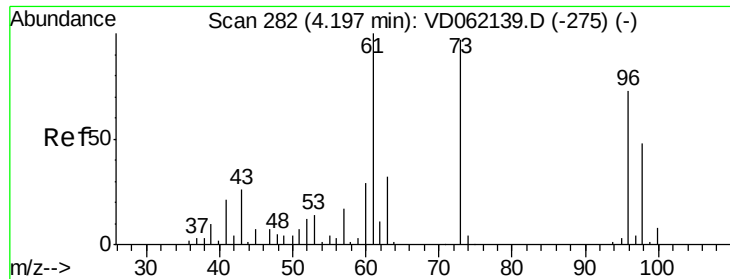
MMDadoda
5/14/2019 9:50:40 AM



#20
Methylene Chloride
Concen: 50.074 ug/l
RT: 3.84 min Scan# 245
Delta R.T. 0.04 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion: 84 Resp: 184673
Ion Ratio Lower Upper
84 100
49 135.2 94.0 141.0
51 44.9 29.0 43.4#
86 63.4 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 42.348 ug/l

RT: 4.24 min Scan# 286

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 96 Resp: 162848

Ion Ratio Lower Upper

96 100

61 155.9 104.4 156.6

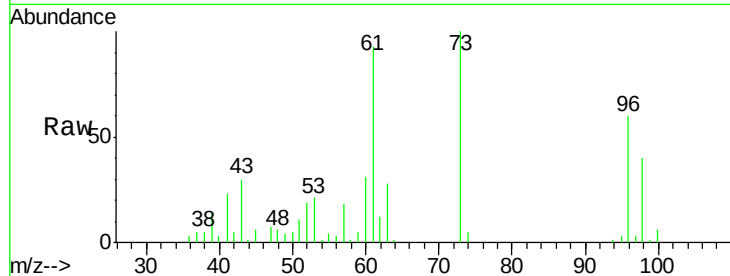
98 67.3 51.8 77.8

Manual Integrations

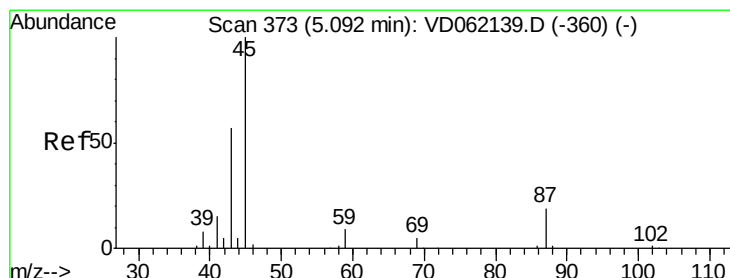
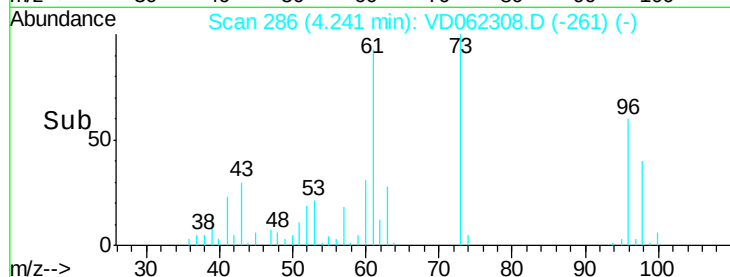
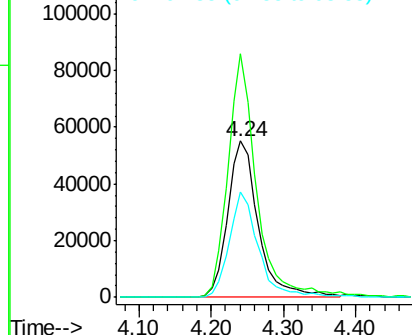
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Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 55.687 ug/l

RT: 5.15 min Scan# 378

Delta R.T. 0.05 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Tgt Ion: 45 Resp: 595426

Ion Ratio Lower Upper

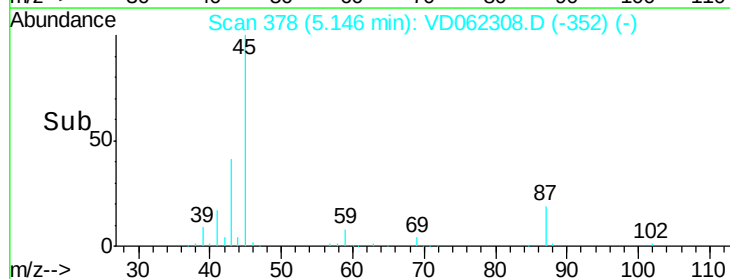
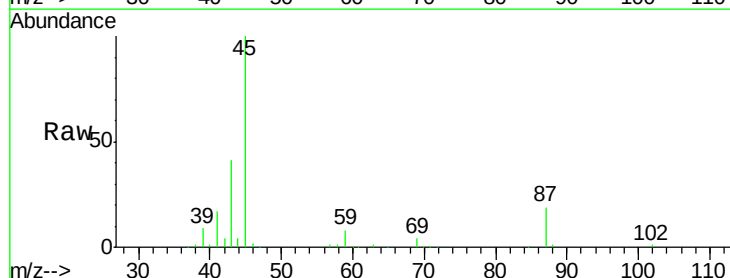
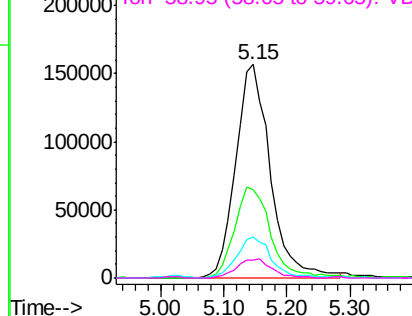
45 100

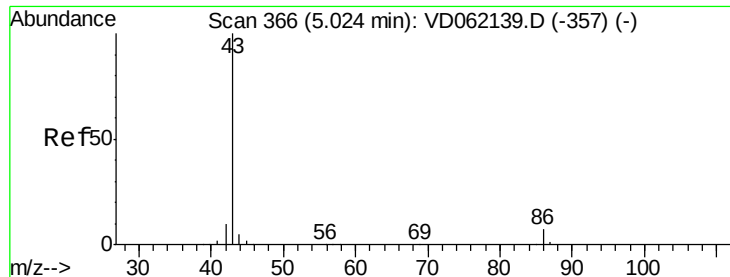
43 41.3 46.2 69.2#

87 19.0 15.9 23.9

59 8.3 7.9 11.9

Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 45.042 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.11 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 43 Resp: 254101

Ion Ratio Lower Upper

43 100

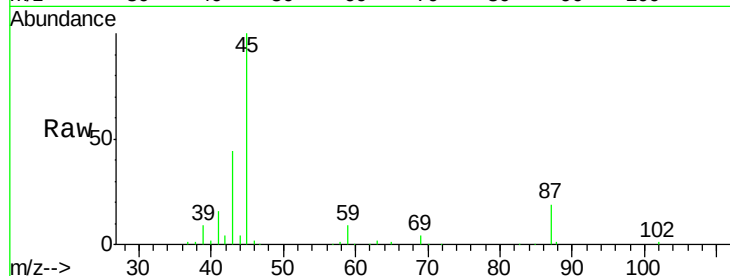
86 0.0 6.4 9.6#

Manual Integrations

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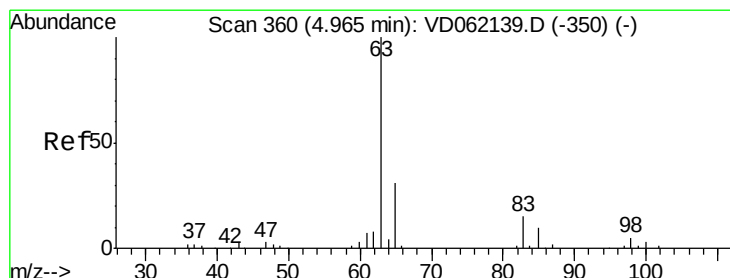
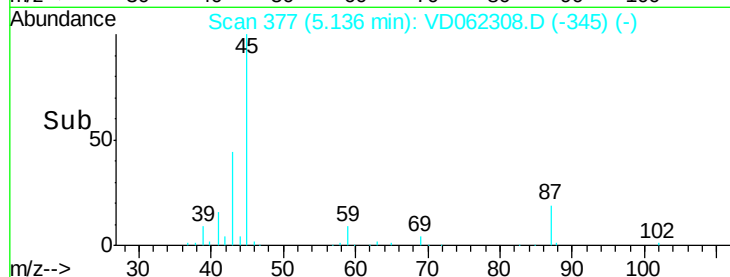
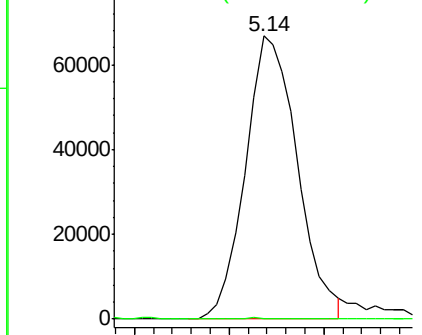
MMDadoda

5/14/2019 9:50:40 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 54.649 ug/l

RT: 5.01 min Scan# 364

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

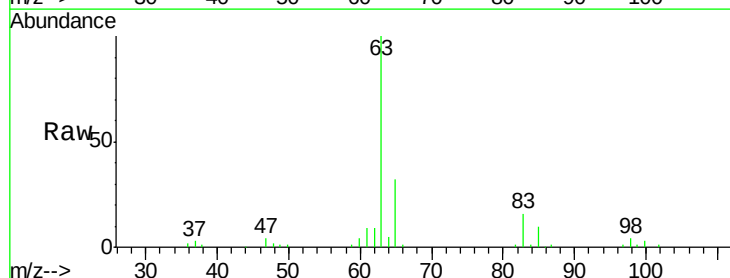
Tgt Ion: 63 Resp: 352504

Ion Ratio Lower Upper

63 100

98 4.4 2.8 8.4

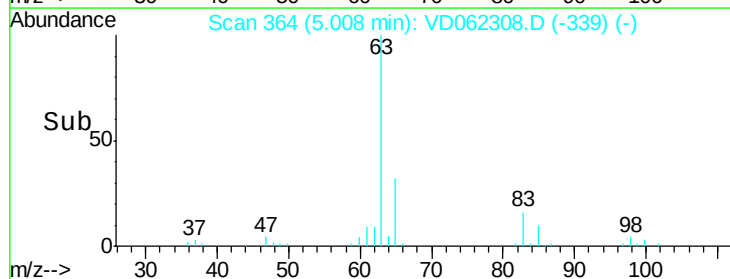
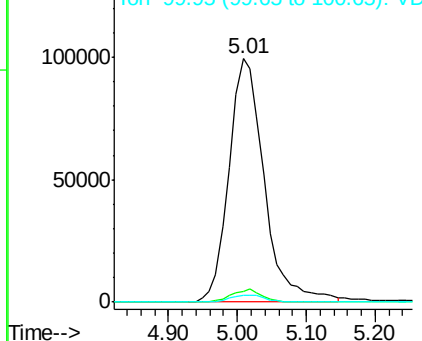
100 2.8 1.8 5.5

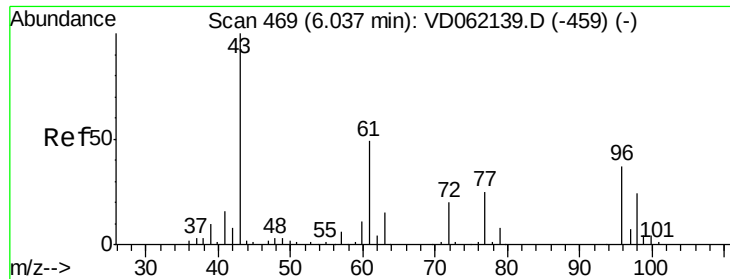


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 220.591 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.05 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 43 Resp: 212526

Ion Ratio Lower Upper

43 100

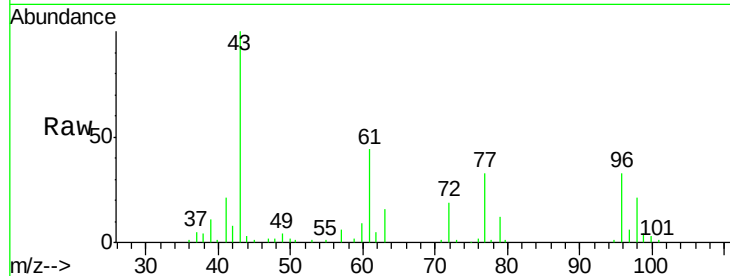
72 18.8 16.2 24.4

Manual Integrations

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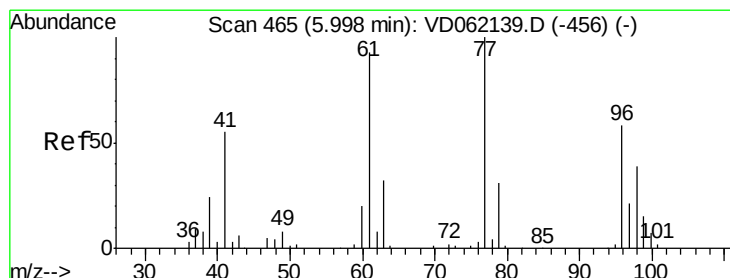
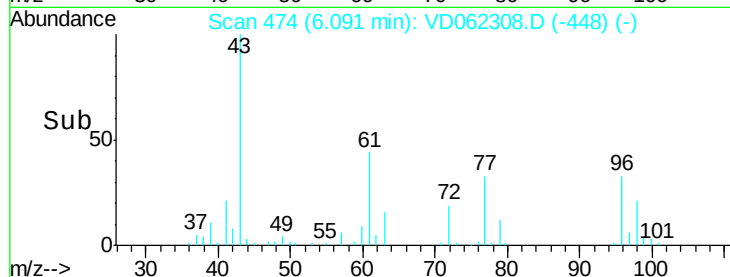
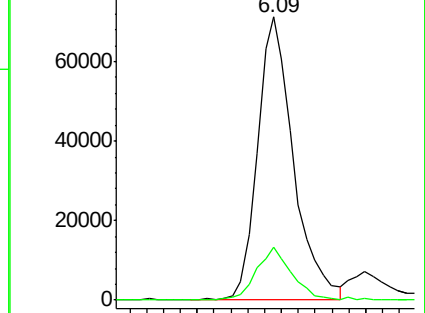
MMDadoda

5/14/2019 9:50:40 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 61.157 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.05 min

Lab File: VD062308.D

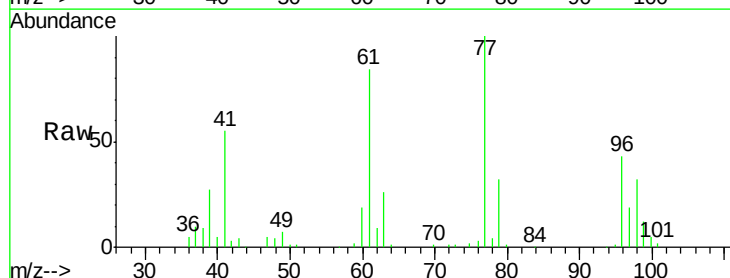
Acq: 13 May 2019 16:49

Tgt Ion: 77 Resp: 392948

Ion Ratio Lower Upper

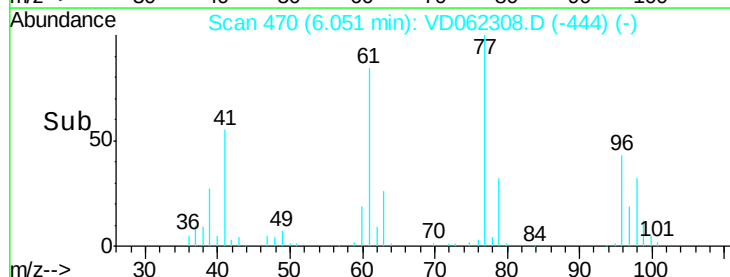
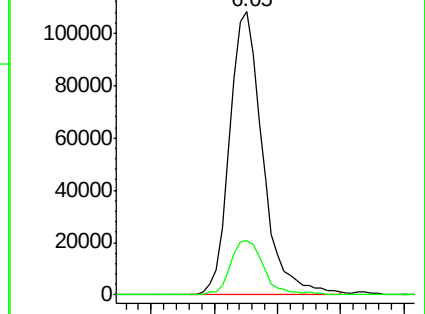
77 100

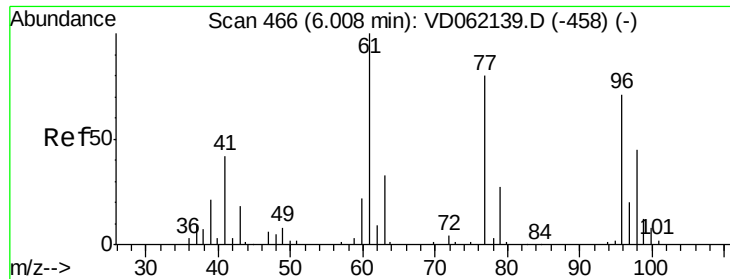
97 19.1 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

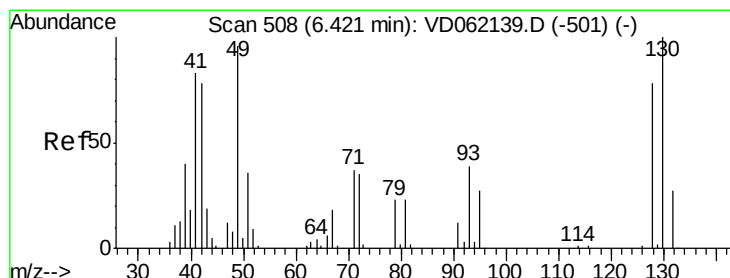
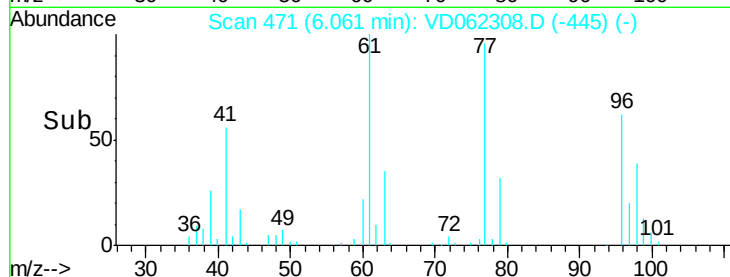
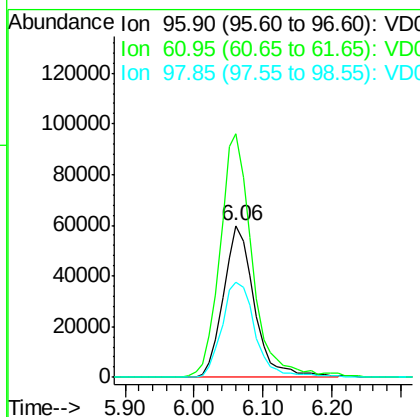
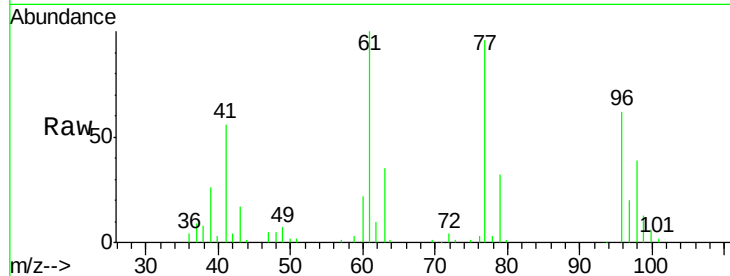
cis-1,2-Dichloroethene
Concen: 43.234 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.05 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100	186094		
61	160.3	0.0	279.8	
98	62.5	0.0	136.0	

Manual Integrations
APPROVED

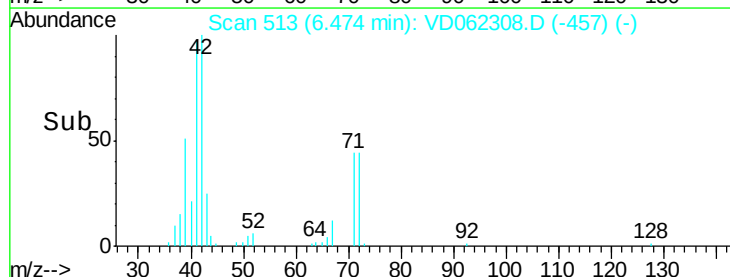
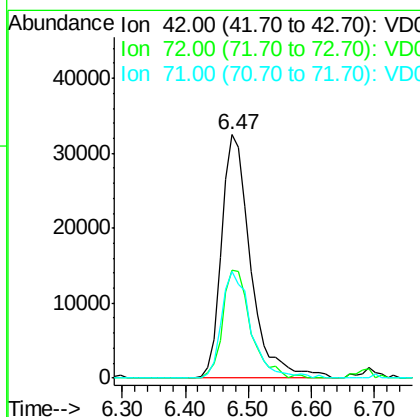
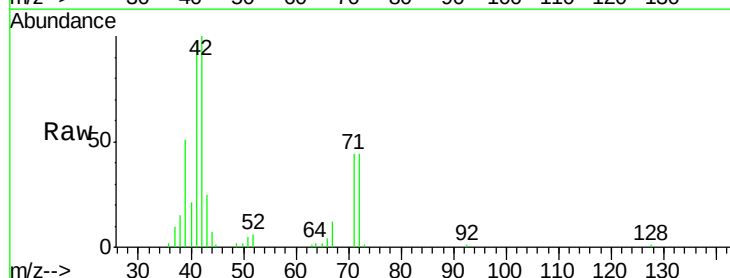
MMDadoda
5/14/2019 9:50:40 AM

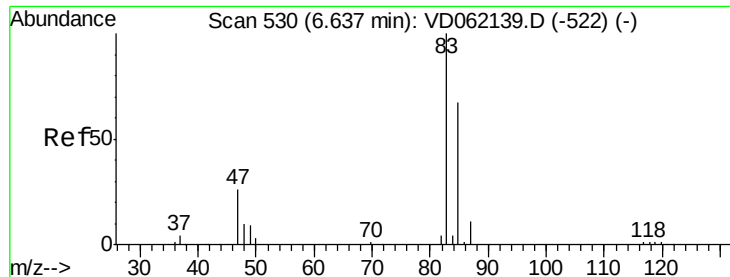


#29

Tetrahydrofuran
Concen: 235.156 ug/l
RT: 6.47 min Scan# 513
Delta R.T. 0.05 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
42	100	104389		
72	42.5	37.8	56.6	
71	43.9	36.7	55.1	





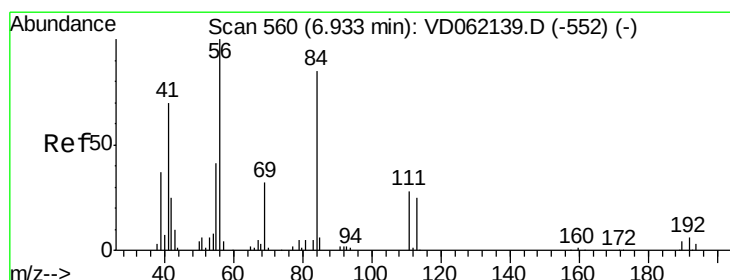
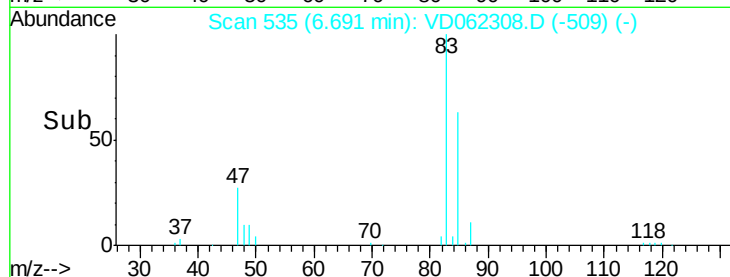
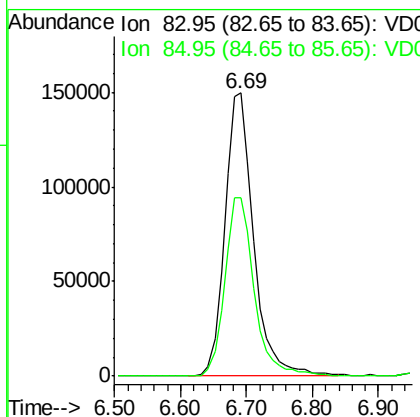
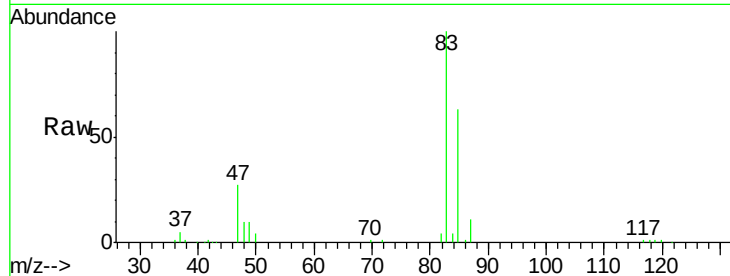
#30
Chloroform
Concen: 58.463 ug/l
RT: 6.69 min Scan# 535
Delta R.T. 0.05 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion: 83 Resp: 454481
Ion Ratio Lower Upper
83 100
85 63.1 51.7 77.5

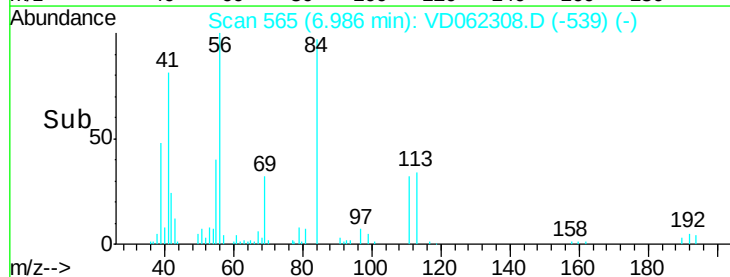
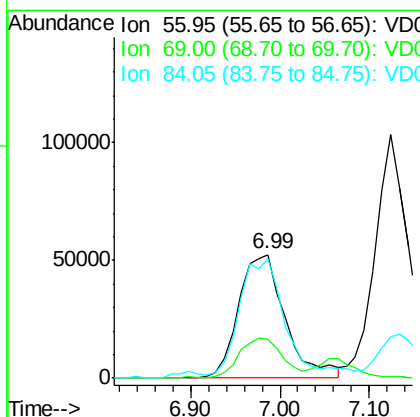
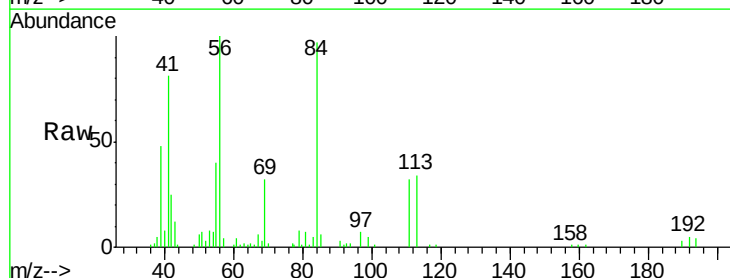
Manual Integrations
APPROVED

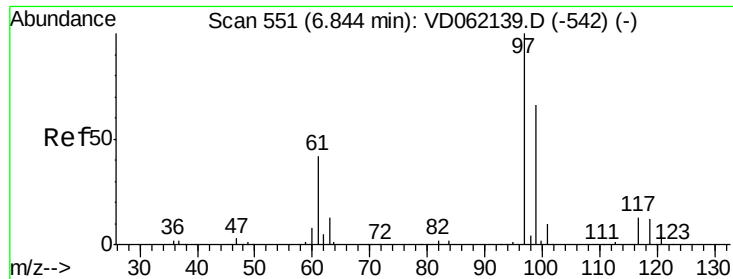
MMDadoda
5/14/2019 9:50:40 AM



#31
Cyclohexane
Concen: 42.955 ug/l
RT: 6.99 min Scan# 565
Delta R.T. 0.05 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion: 56 Resp: 189825
Ion Ratio Lower Upper
56 100
69 31.6 25.8 38.6
84 96.7 72.2 108.4





#32

1,1,1-Trichloroethane

Concen: 59.661 ug/l

RT: 6.90 min Scan# 556

Delta R.T. 0.05 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

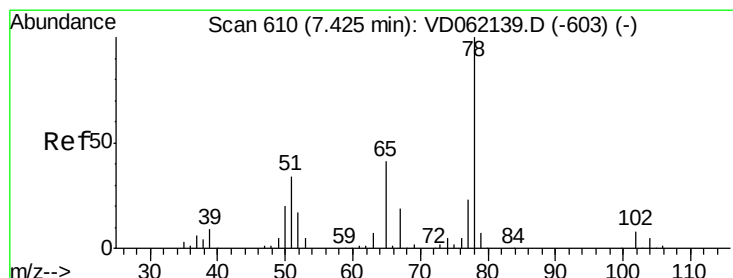
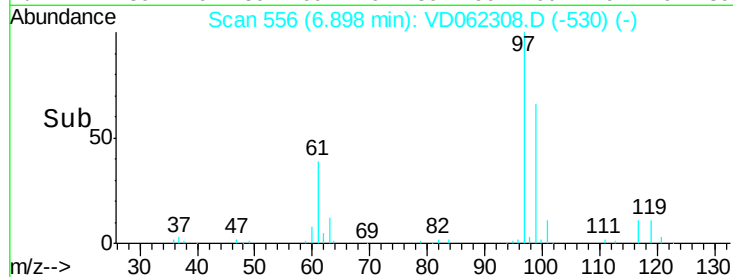
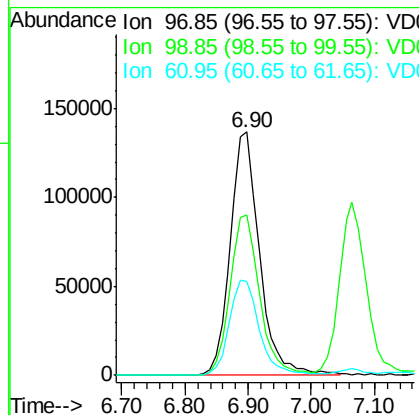
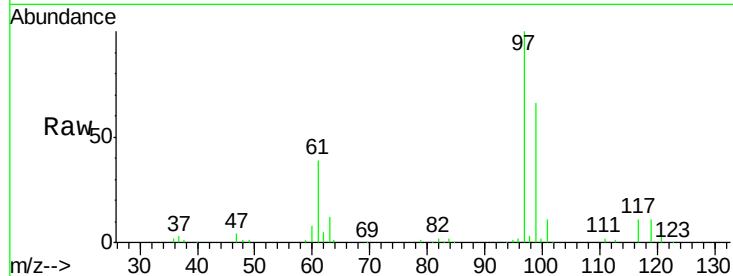
ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:	97	Resp:	438369
Ion	Ratio	Lower	Upper
97	100		
99	65.7	52.2	78.2
61	38.5	32.4	48.6

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:50:40 AM



#33

1,2-Dichloroethane-d4

Concen: 62.754 ug/l

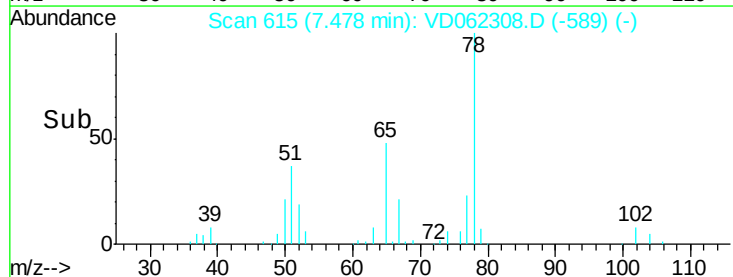
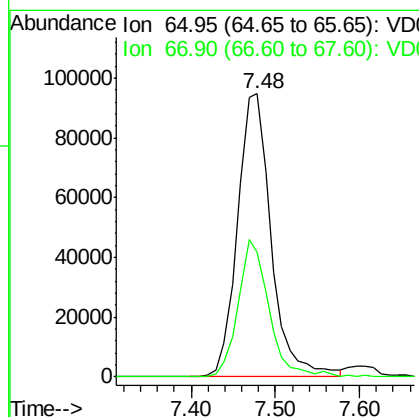
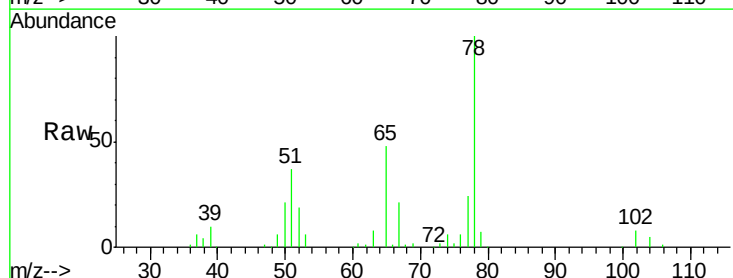
RT: 7.48 min Scan# 615

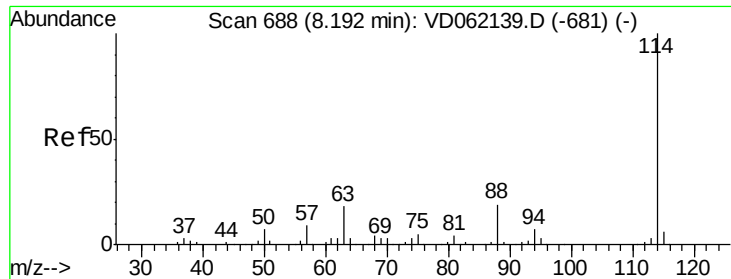
Delta R.T. 0.05 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Tgt Ion:	65	Resp:	264312
Ion	Ratio	Lower	Upper
65	100		
67	44.1	0.0	98.0





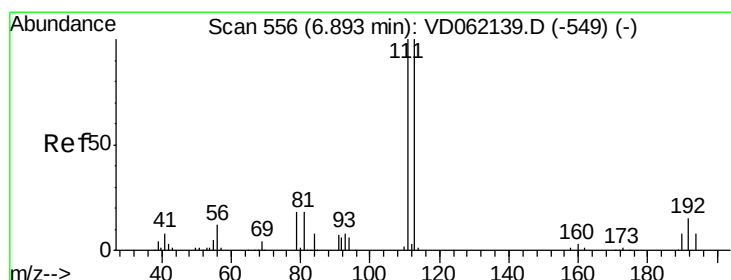
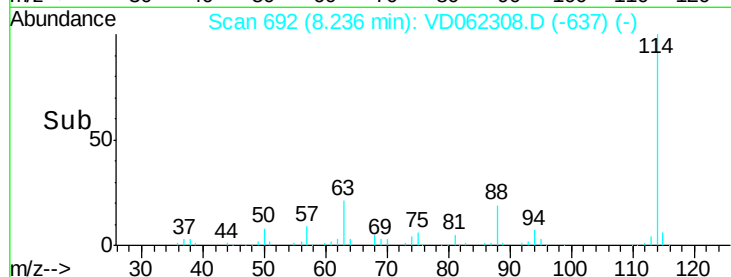
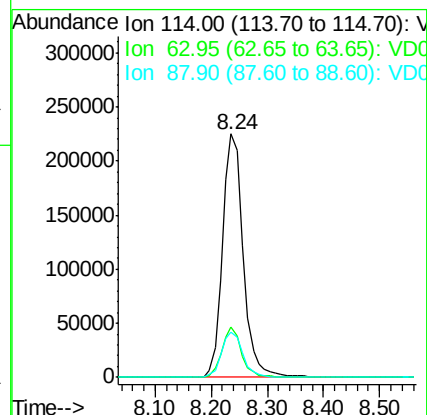
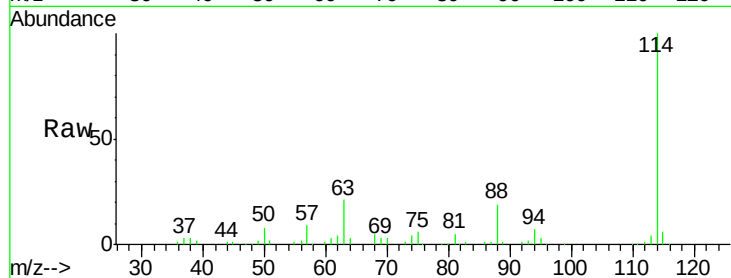
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.04 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	20.9	0.0	32.4
88	18.7	0.0	33.6

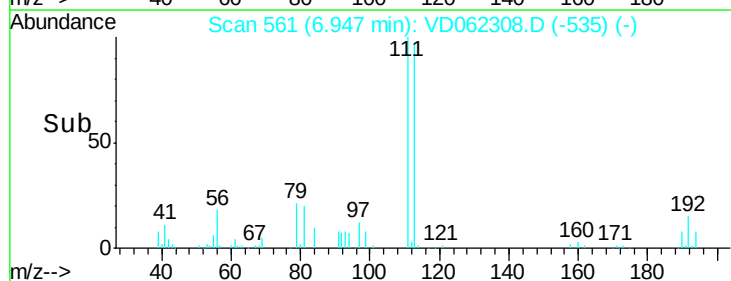
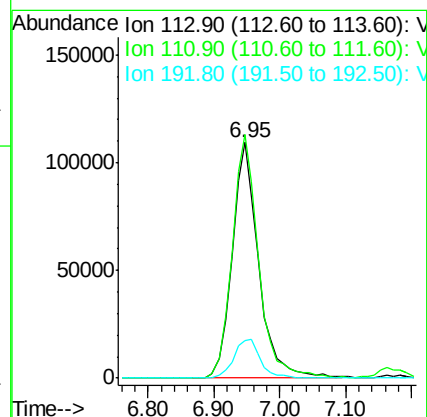
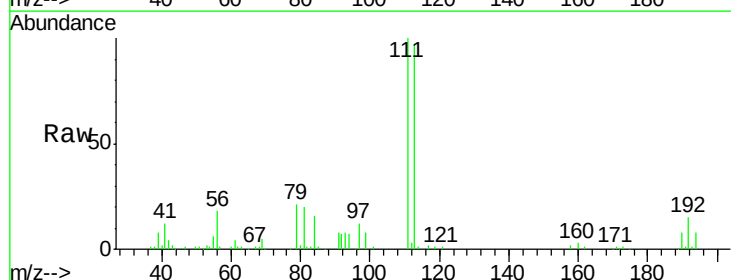
Manual Integrations
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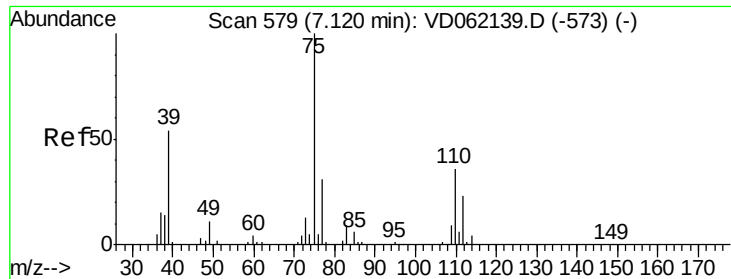
MMDadoda
 5/14/2019 9:50:40 AM



#35
 Dibromofluoromethane
 Concen: 63.489 ug/l
 RT: 6.95 min Scan# 561
 Delta R.T. 0.05 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	103.3	78.5	117.7
192	15.9	13.0	19.4





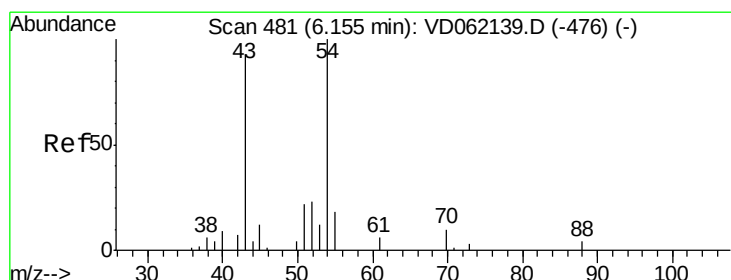
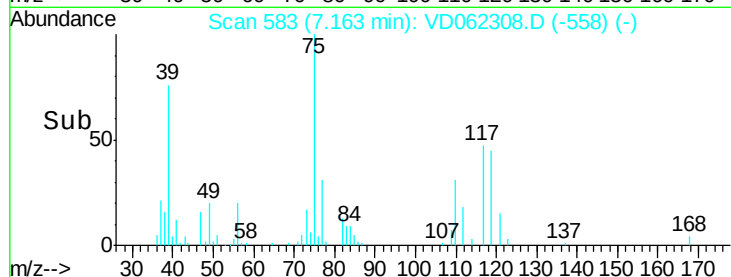
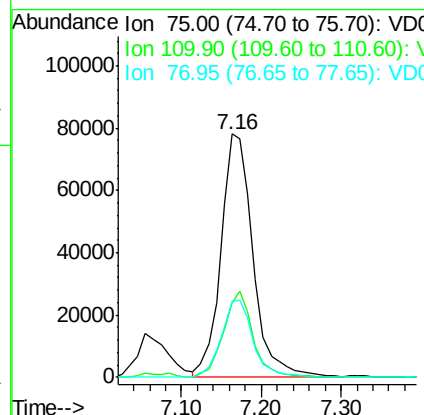
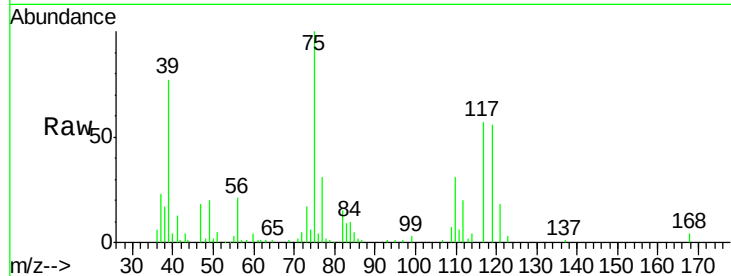
#36
 1,1-Dichloropropene
 Concen: 46.474 ug/l
 RT: 7.16 min Scan# 583
 Delta R.T. 0.04 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion	Ratio	Lower	Upper
75	100		
110	30.6	19.1	57.1
77	30.9	25.6	38.4

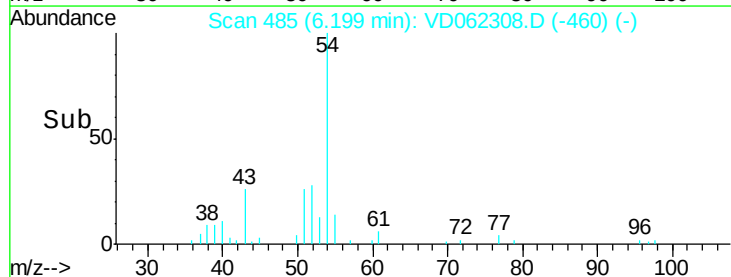
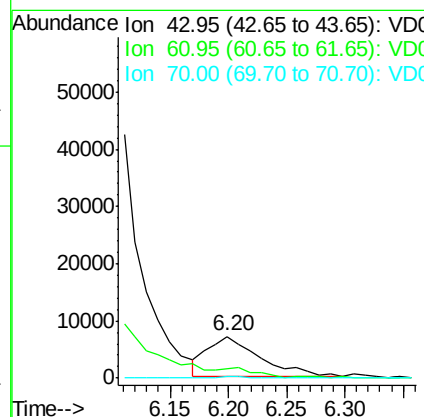
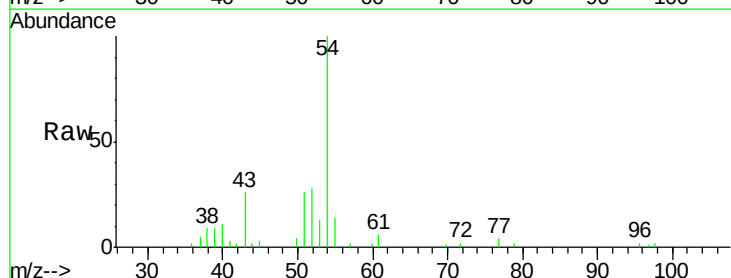
Manual Integrations
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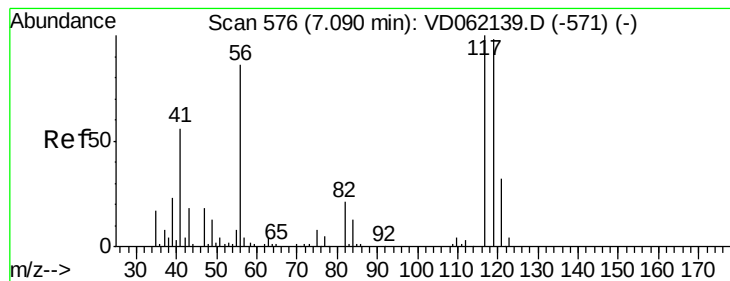
MMDadoda
 5/14/2019 9:50:40 AM



#37
 Ethyl Acetate
 Concen: 10.774 ug/l
 RT: 6.20 min Scan# 485
 Delta R.T. 0.04 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Lower	Upper
43	100		
61	21.4	14.7	22.1
70	4.7	7.8	11.6





#38

Carbon Tetrachloride

Concen: 63.977 ug/l m

RT: 7.13 min Scan# 580

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

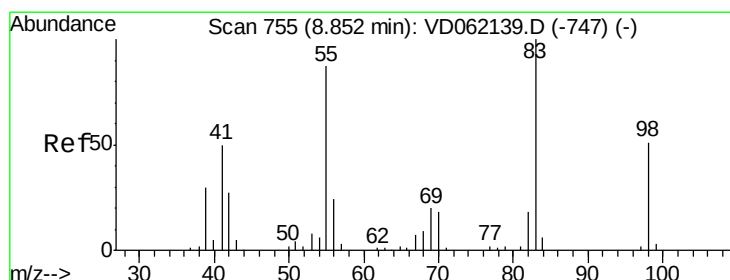
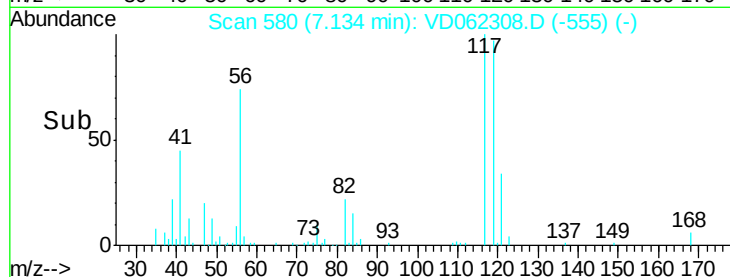
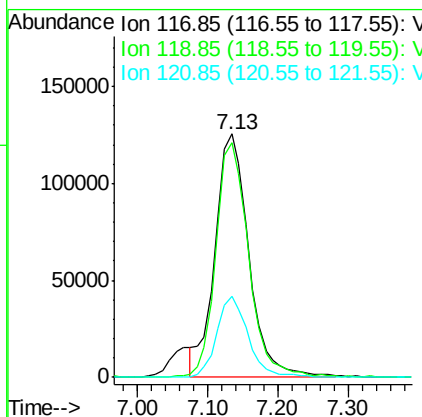
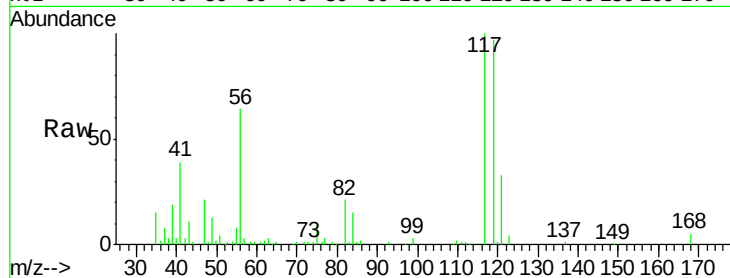
ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:	117	Resp:	421606
Ion Ratio	Lower	Upper	
117	100		
119	96.6	75.8	113.8
121	33.1	25.9	38.9

Manual Integrations
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MMDadoda
5/14/2019 9:50:40 AM



#39

Methylcyclohexane

Concen: 39.774 ug/l

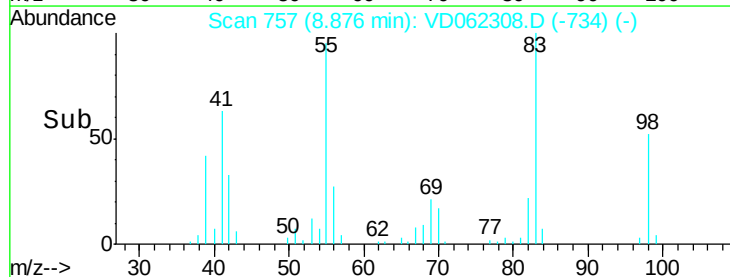
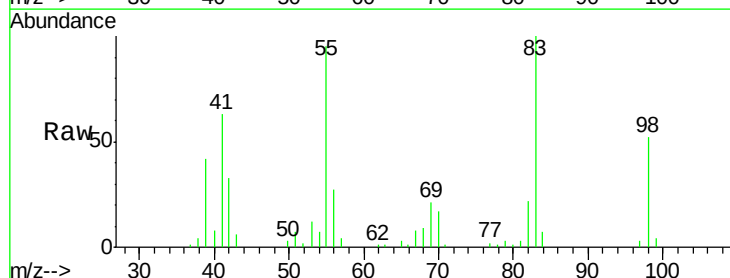
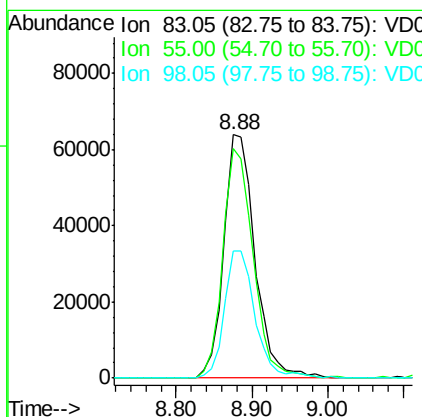
RT: 8.88 min Scan# 757

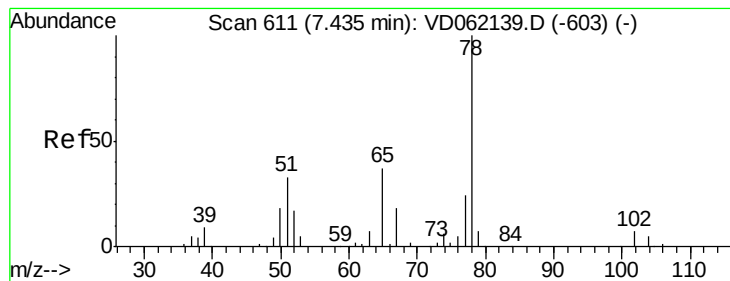
Delta R.T. 0.02 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Tgt Ion:	83	Resp:	181442
Ion Ratio	Lower	Upper	
83	100		
55	94.5	68.2	102.4
98	52.0	38.2	57.4





#40

Benzene

Concen: 50.555 ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 78 Resp: 543544

Ion Ratio Lower Upper

78 100

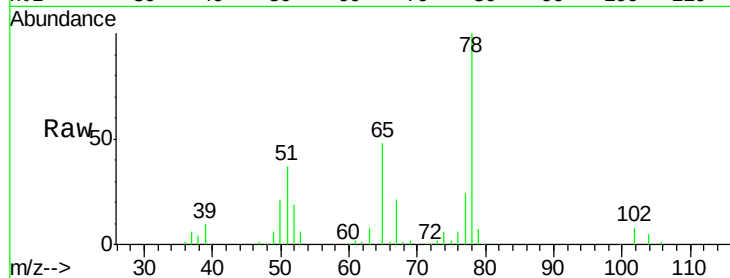
77 23.7 19.7 29.5

Manual Integrations

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5/14/2019 9:50:40 AM



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

7.48

200000

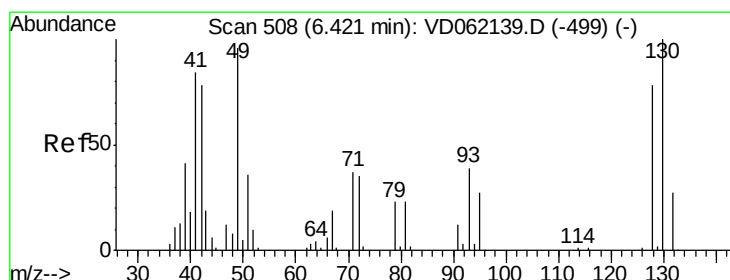
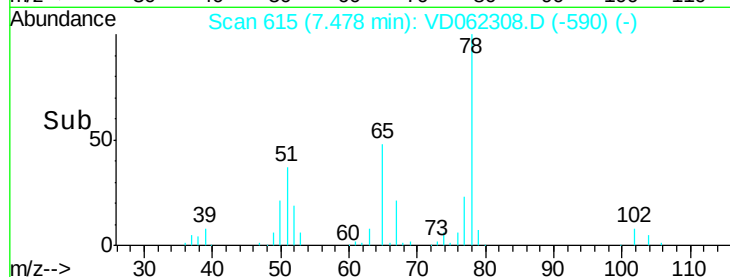
150000

100000

50000

0

Time-->



#41

Methacrylonitrile

Concen: 52.483 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Tgt Ion: 41 Resp: 129504

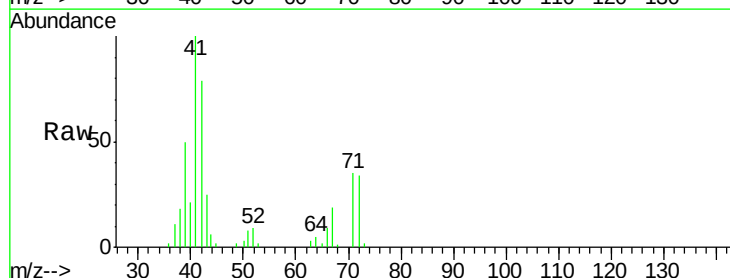
Ion Ratio Lower Upper

41 100

39 49.6 34.1 51.1

67 19.4 23.8 35.6#

52 8.9 8.8 13.2



Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

6.46

50000

40000

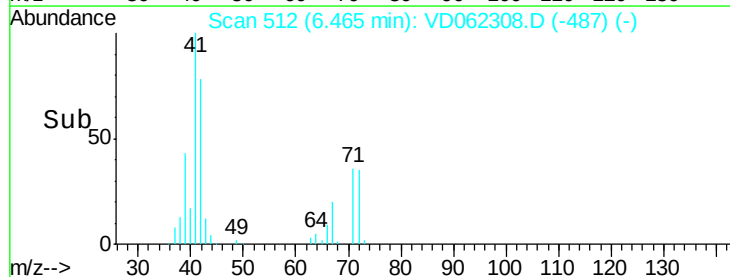
30000

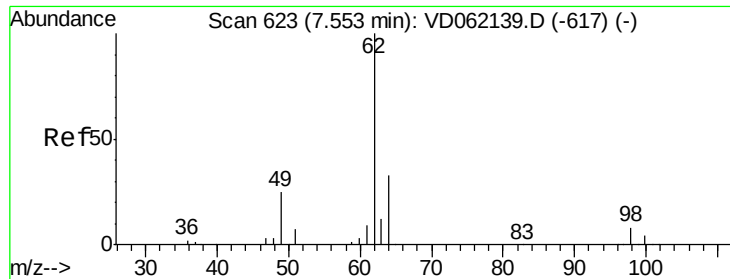
20000

10000

0

Time-->





#42

1,2-Dichloroethane

Concen: 63.286 ug/l

RT: 7.60 min Scan# 627

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 62 Resp: 288283

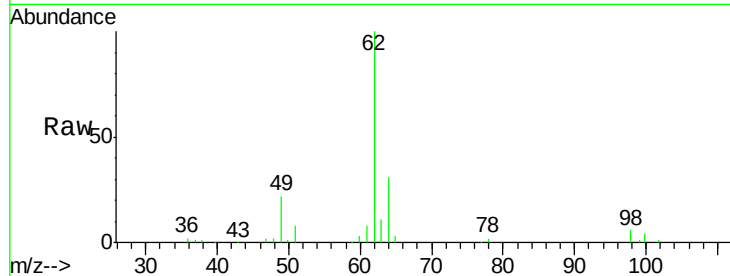
Ion Ratio Lower Upper

62 100

98 6.1 0.0 17.8

Manual Integrations
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MMDadoda
5/14/2019 9:50:40 AM



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

7.60

120000

100000

80000

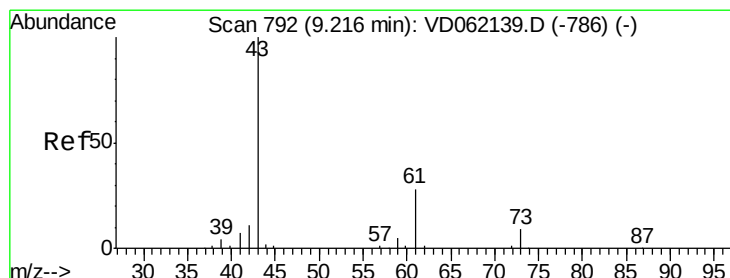
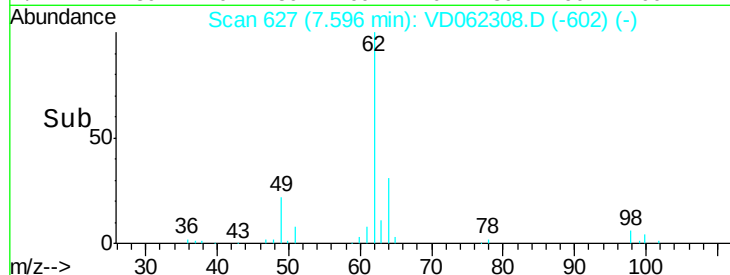
60000

40000

20000

0

Time-->



#43

Isopropyl Acetate

Concen: 4.577 ug/l

RT: 9.26 min Scan# 796

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

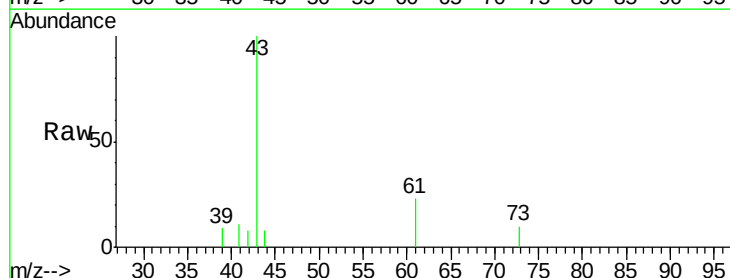
Tgt Ion: 43 Resp: 13106

Ion Ratio Lower Upper

43 100

61 23.2 25.1 37.7#

87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC

9.26

8000

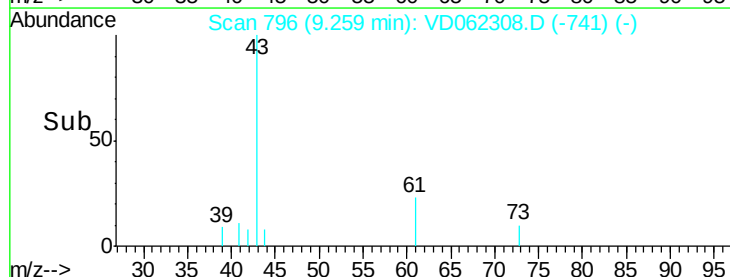
6000

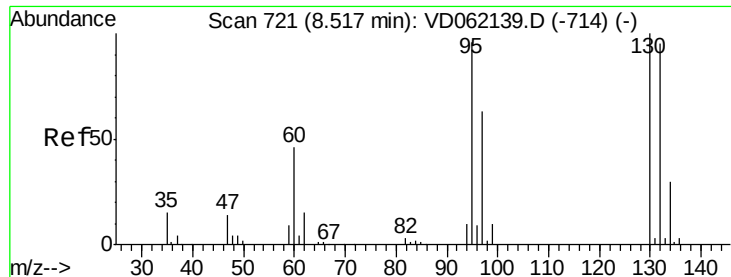
4000

2000

0

Time-->





#44

Trichloroethene

Concen: 38.650 ug/l

RT: 8.56 min Scan# 725

Delta R.T. 0.04 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:130 Resp: 158344

Ion Ratio Lower Upper

130 100

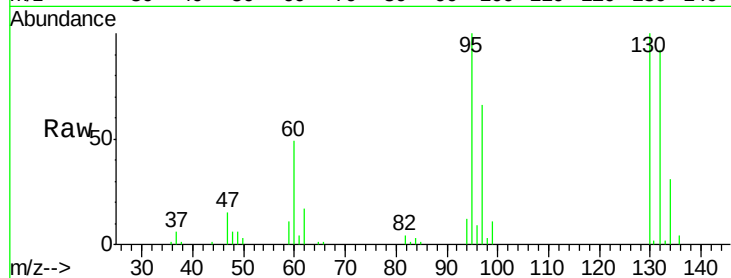
95 100.2 0.0 174.0

Manual Integrations

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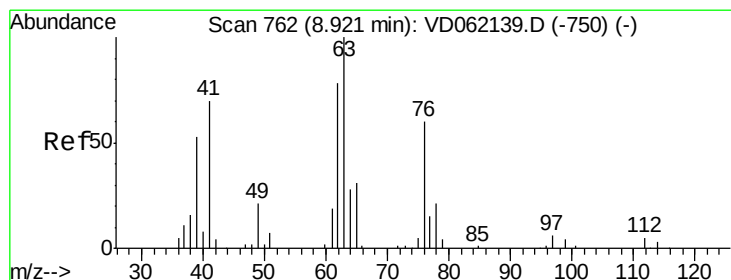
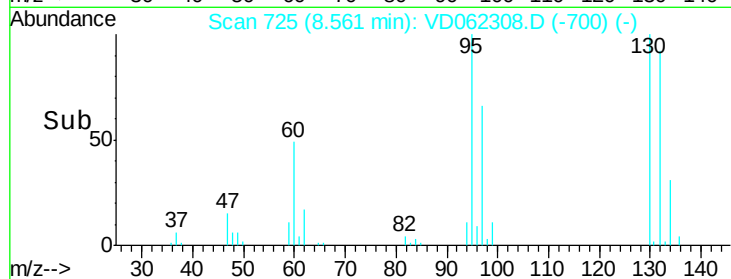
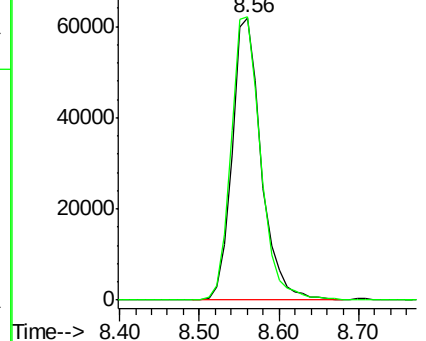
MMDadoda

5/14/2019 9:50:40 AM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#45

1,2-Dichloropropane

Concen: 51.733 ug/l

RT: 8.95 min Scan# 765

Delta R.T. 0.03 min

Lab File: VD062308.D

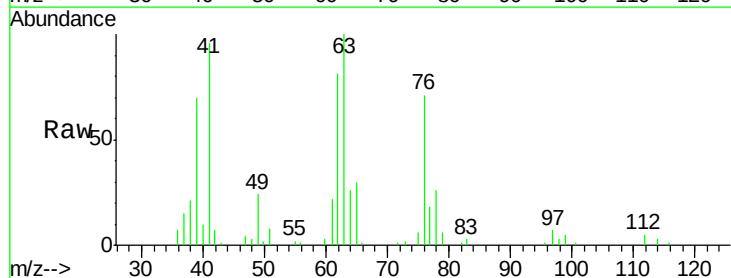
Acq: 13 May 2019 16:49

Tgt Ion: 63 Resp: 137578

Ion Ratio Lower Upper

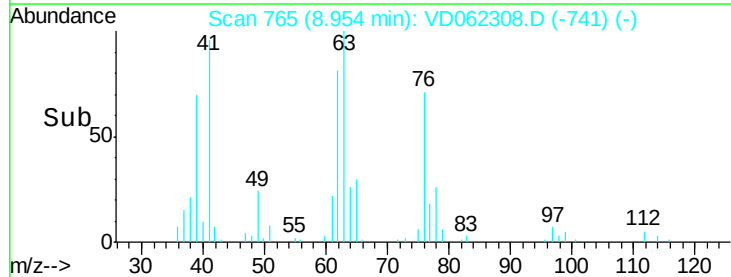
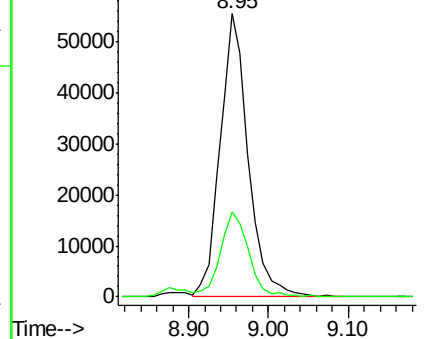
63 100

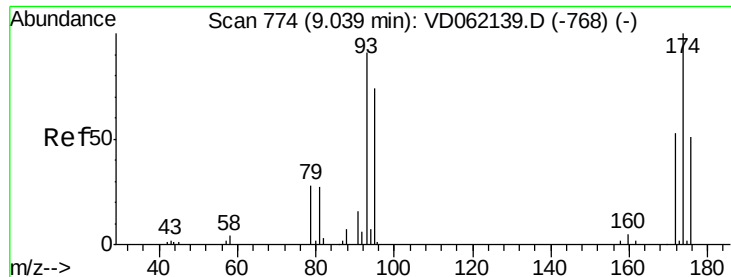
65 30.0 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC





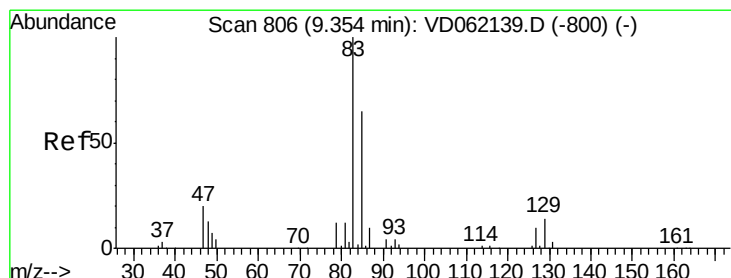
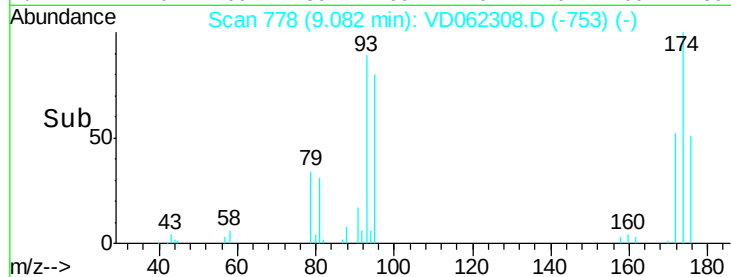
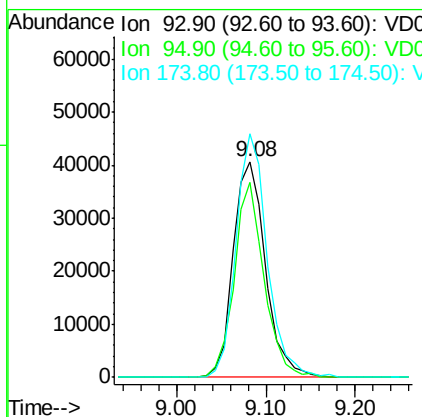
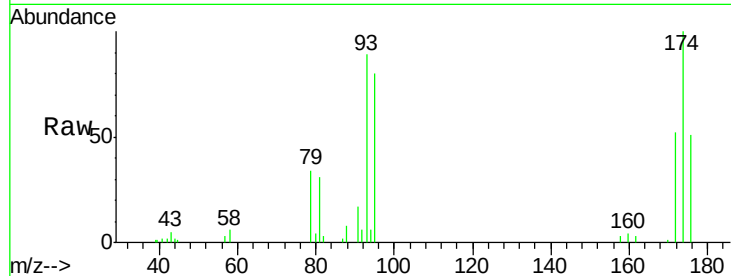
#46
 Dibromomethane
 Concen: 47.524 ug/l
 RT: 9.08 min Scan# 778
 Delta R.T. 0.04 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion:	93	Resp:	102774
Ion Ratio	Lower	Upper	
93	100		
95	90.6	64.8	97.2
174	112.8	79.3	118.9

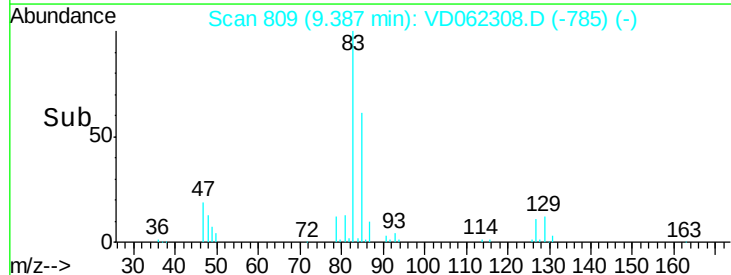
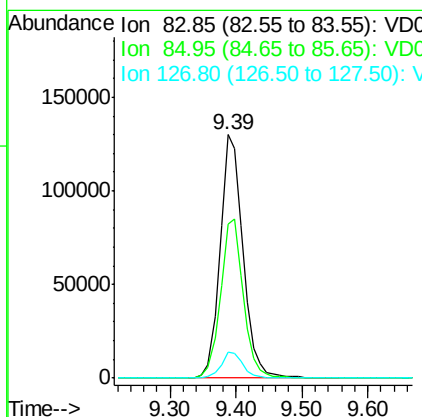
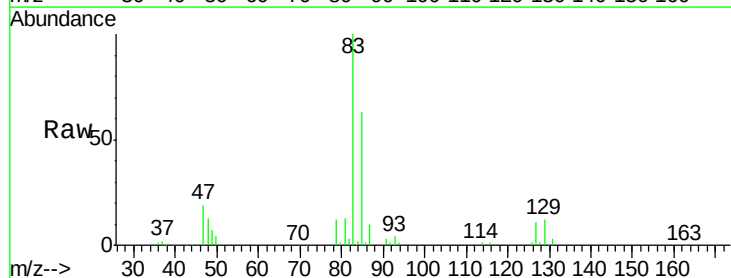
Manual Integrations
 APPROVED

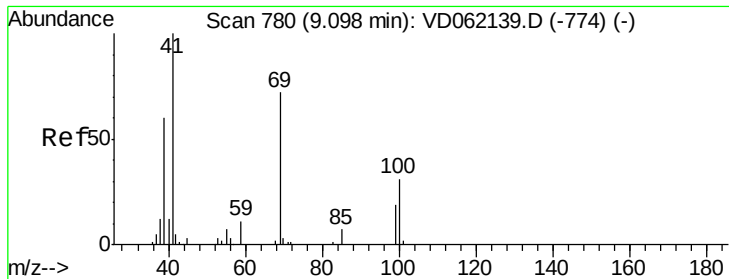
MMDadoda
 5/14/2019 9:50:40 AM



#47
 Bromodichloromethane
 Concen: 59.378 ug/l
 RT: 9.39 min Scan# 809
 Delta R.T. 0.03 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Tgt Ion:	83	Resp:	314092
Ion Ratio	Lower	Upper	
83	100		
85	63.3	50.9	76.3
127	10.6	8.1	12.1





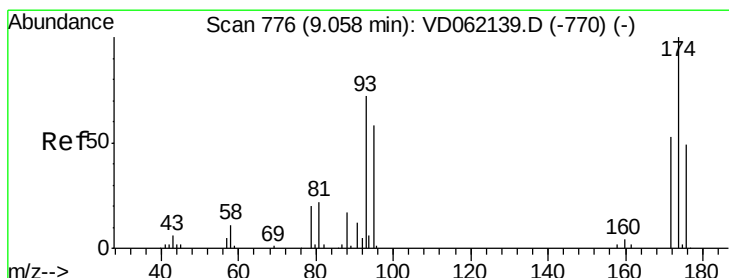
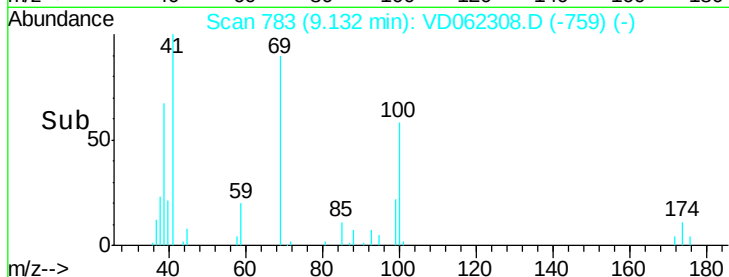
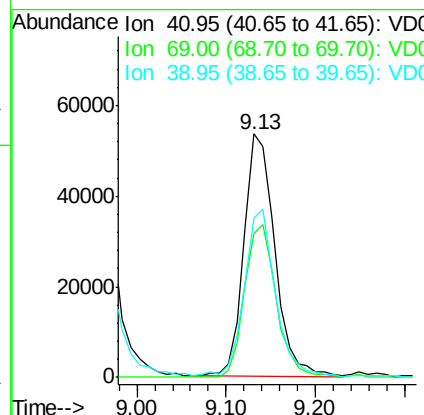
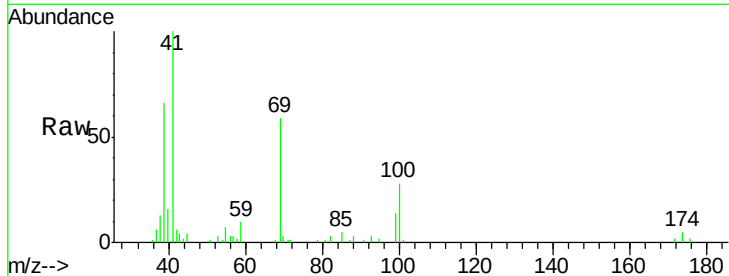
#48
Methyl methacrylate
Concen: 72.935 ug/l
RT: 9.13 min Scan# 783
Delta R.T. 0.03 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
69	59.0	64.2	96.2#	
39	65.6	46.8	70.2	

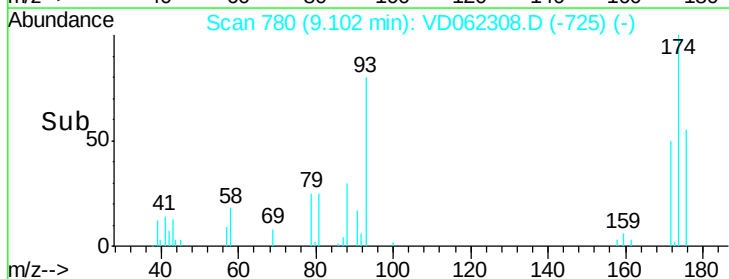
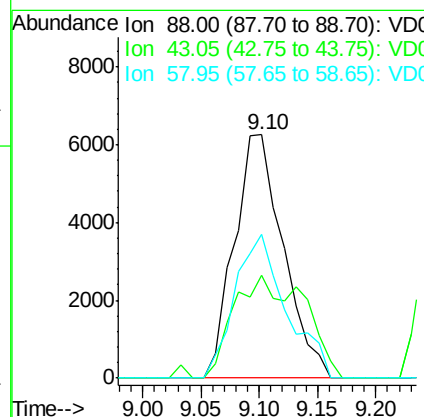
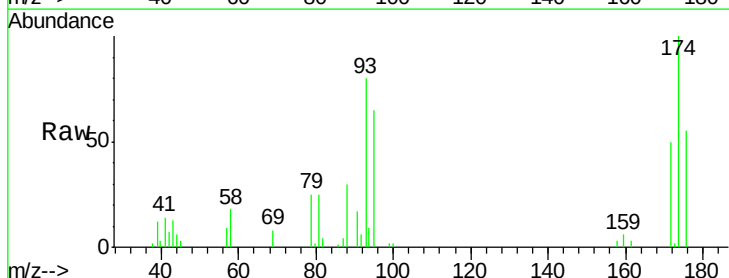
Manual Integrations
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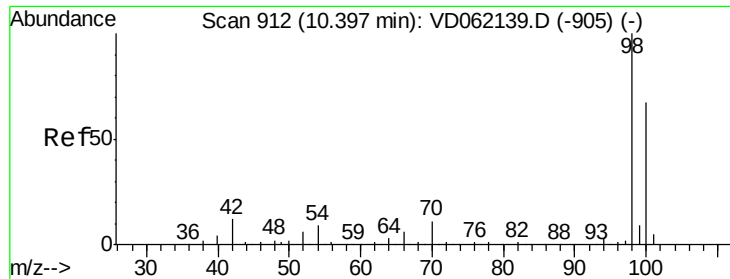
MMDadoda
5/14/2019 9:50:40 AM



#49
1,4-Dioxane
Concen: 957.620 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.04 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
88	100			
43	42.5	23.4	35.0#	
58	58.9	44.0	66.0	





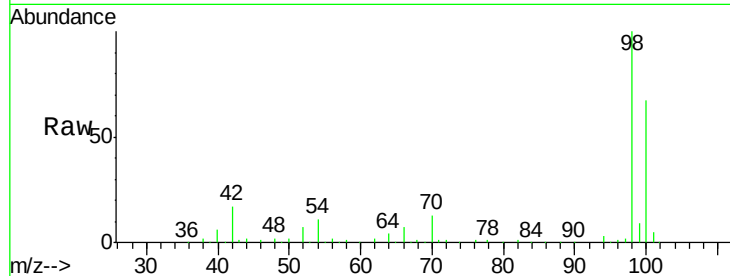
#50
Toluene-d8
Concen: 46.784 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

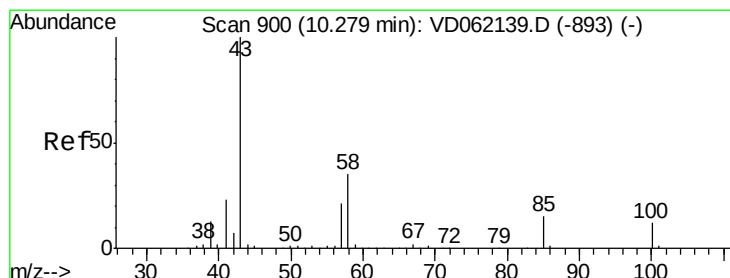
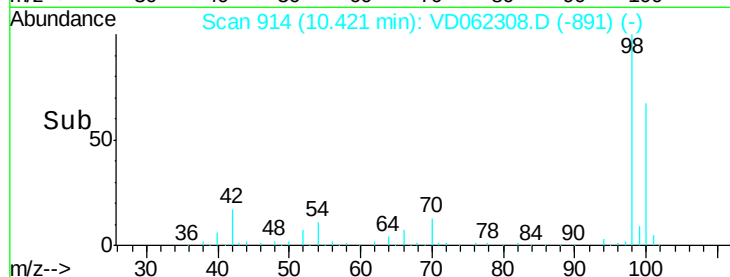
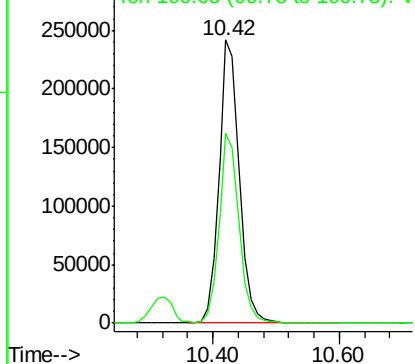
Tot Ion: 98 Resp: 543486
Ion Ratio Lower Upper
98 100
100 67.0 53.8 80.8

Manual Integrations
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MMDadoda
5/14/2019 9:50:40 AM

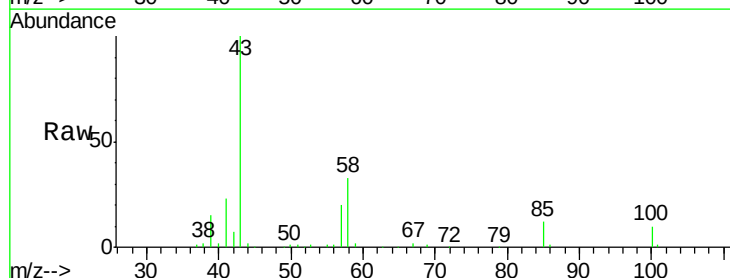


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

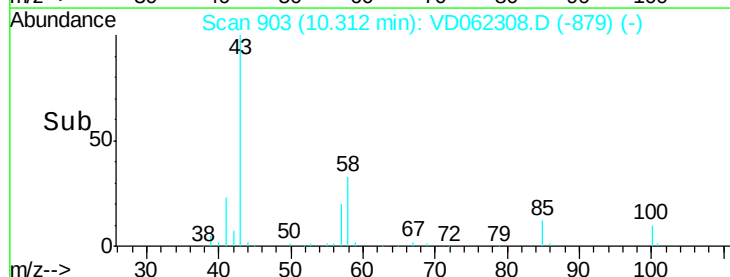
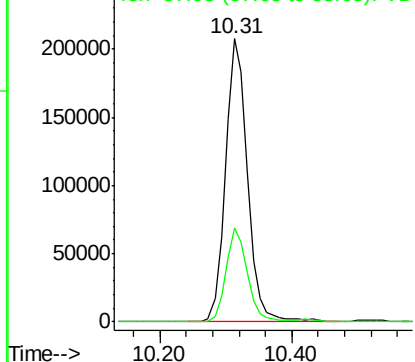


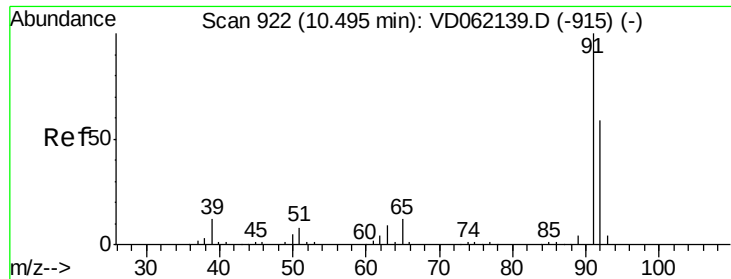
#51
4-Methyl-2-Pentanone
Concen: 263.618 ug/l
RT: 10.31 min Scan# 903
Delta R.T. 0.03 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion: 43 Resp: 485263
Ion Ratio Lower Upper
43 100
58 33.1 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 43.888 ug/l

RT: 10.53 min Scan# 925

Delta R.T. 0.03 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 92 Resp: 307009

Ion Ratio Lower Upper

92 100

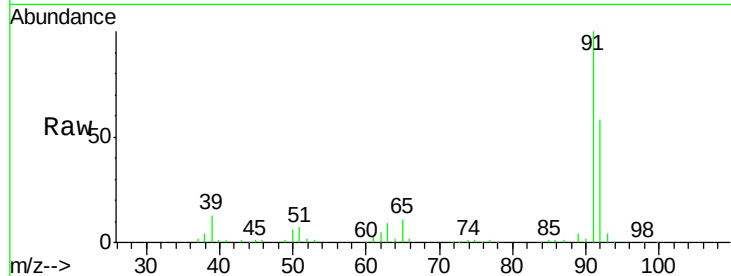
91 171.6 136.6 204.8

Manual Integrations

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5/14/2019 9:50:40 AM



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

250000

200000

150000

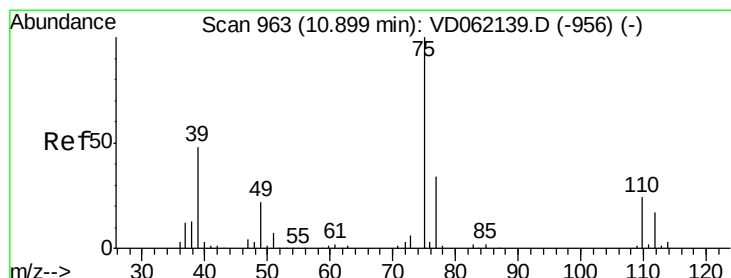
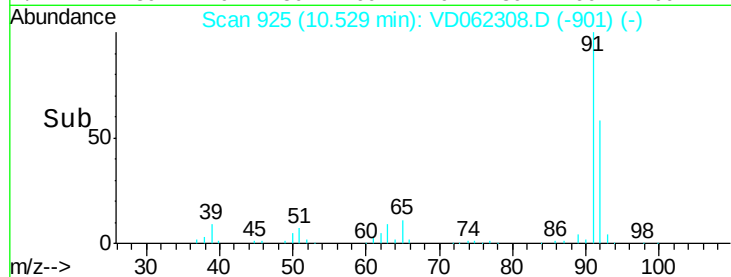
100000

50000

0

10.40 10.50 10.60 10.70

Time-->



#53

t-1,3-Dichloropropene

Concen: 38.887 ug/l

RT: 10.92 min Scan# 965

Delta R.T. 0.02 min

Lab File: VD062308.D

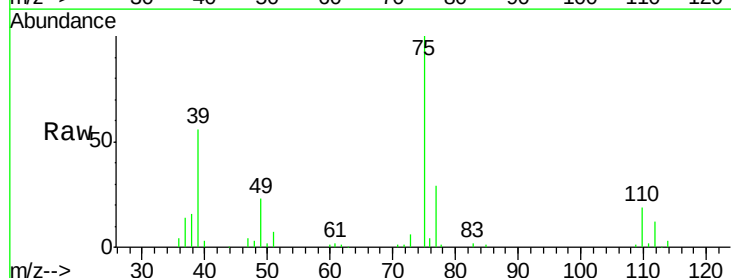
Acq: 13 May 2019 16:49

Tgt Ion: 75 Resp: 177782

Ion Ratio Lower Upper

75 100

77 28.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

100000

80000

60000

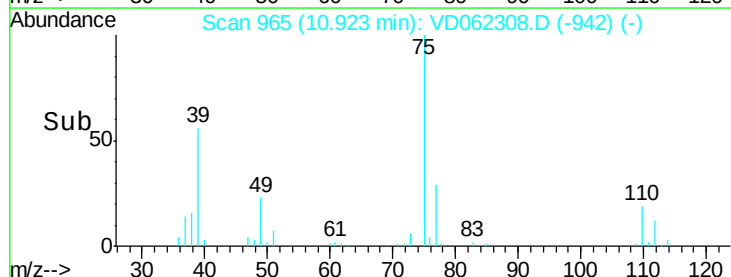
40000

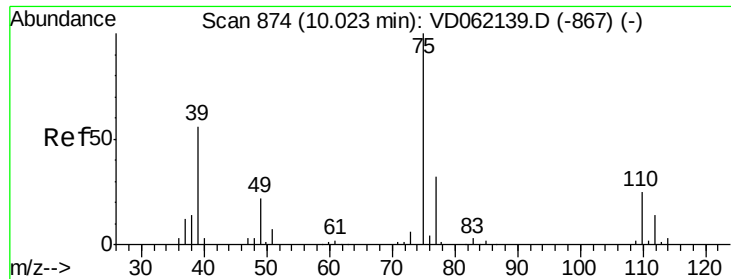
20000

0

10.80 10.90 11.00

Time-->





#54

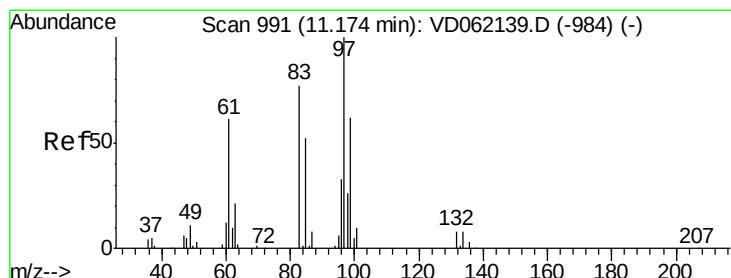
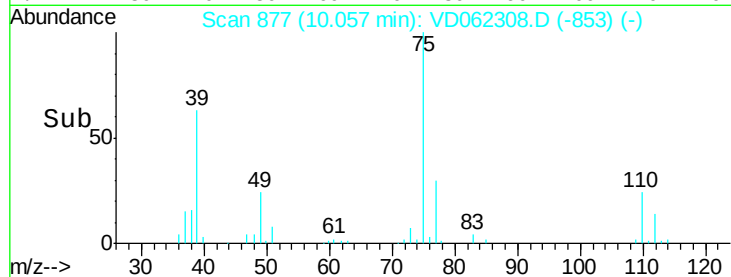
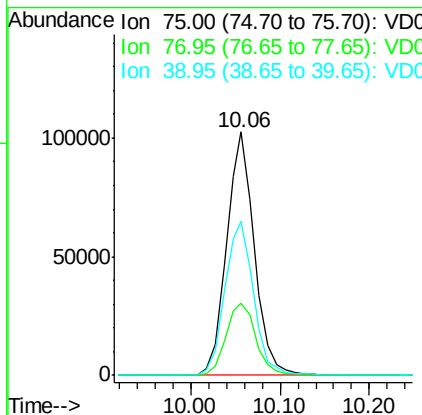
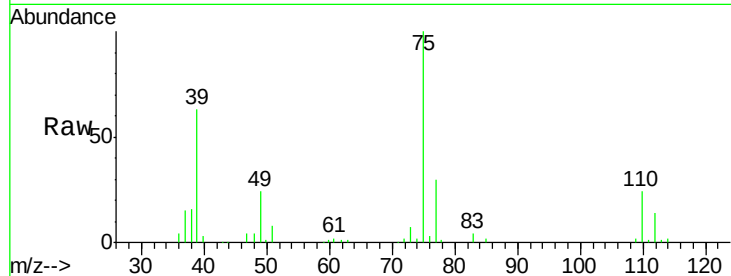
cis-1,3-Dichloropropene
 Concen: 44.823 ug/l
 RT: 10.06 min Scan# 877
 Delta R.T. 0.03 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
77	29.8	25.5	38.3	
39	63.2	39.4	59.2	

Manual Integrations
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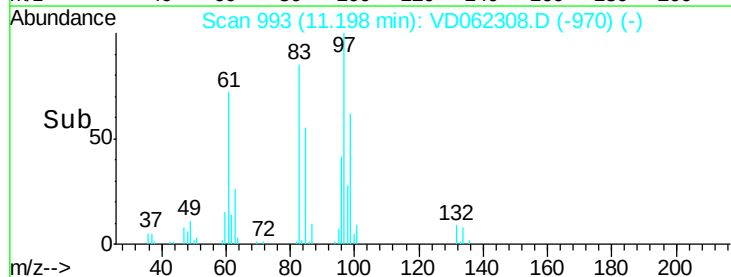
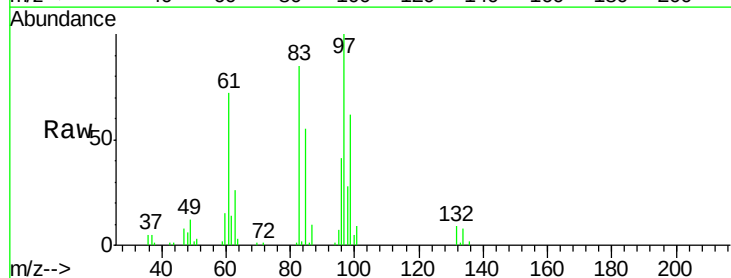
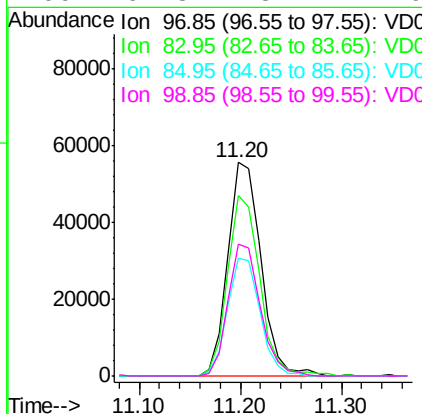
MMDadoda
 5/14/2019 9:50:40 AM

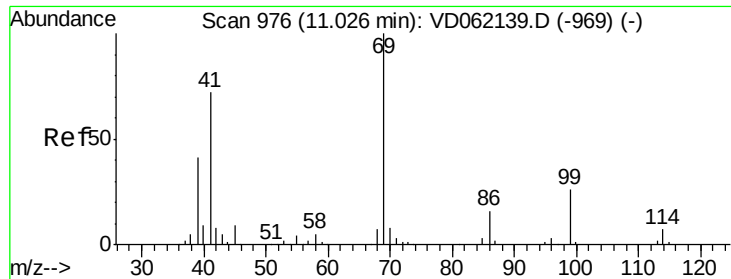


#55

1,1,2-Trichloroethane
 Concen: 51.343 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.02 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
83	87.0	65.7	98.5	
85	54.9	45.6	68.4	
99	61.8	48.4	72.6	





#56

Ethyl methacrylate

Concen: 7.017 ug/l

RT: 11.05 min Scan# 978

Delta R.T. 0.02 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 69 Resp: 18048

Ion Ratio Lower Upper

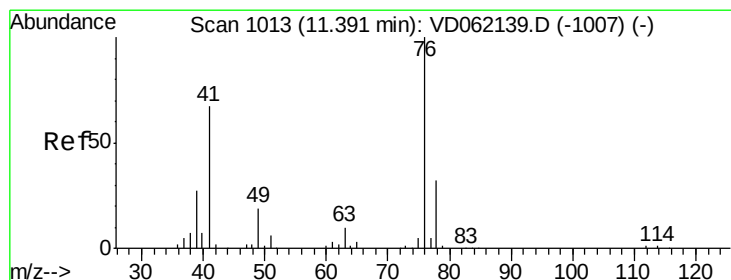
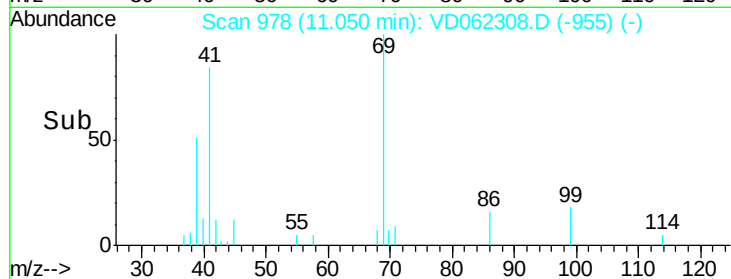
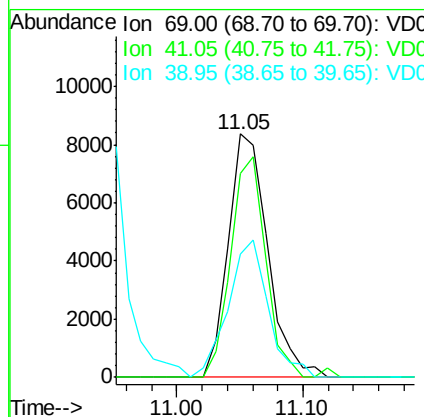
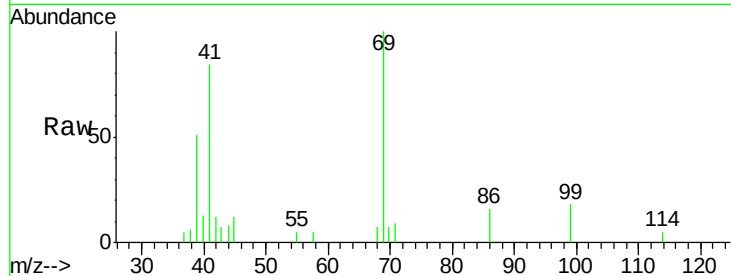
69 100

41 83.8 56.3 84.5

39 50.7 29.4 44.2#

Manual Integrations
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MMDadoda
5/14/2019 9:50:40 AM



#57

1,3-Dichloropropane

Concen: 48.929 ug/l

RT: 11.42 min Scan# 1016

Delta R.T. 0.03 min

Lab File: VD062308.D

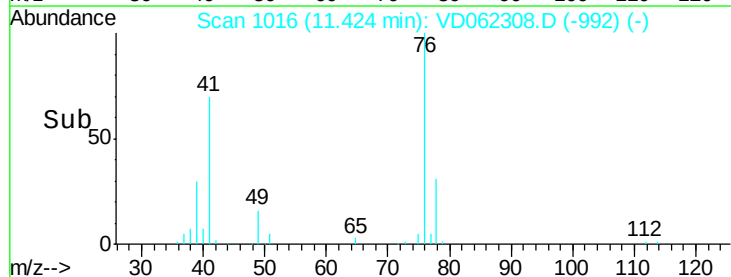
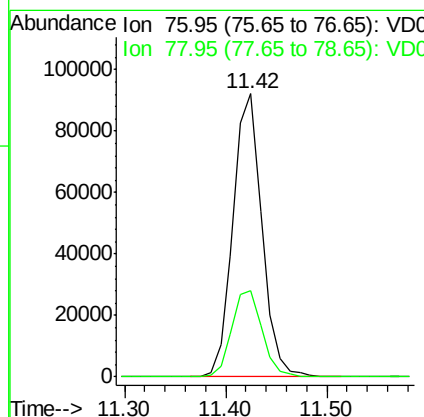
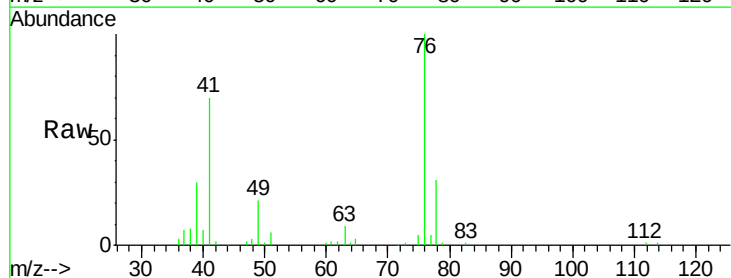
Acq: 13 May 2019 16:49

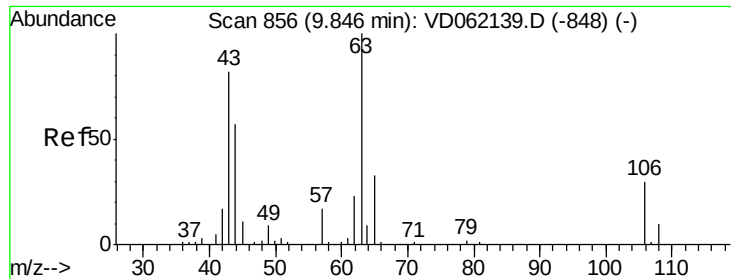
Tgt Ion: 76 Resp: 182960

Ion Ratio Lower Upper

76 100

78 30.7 26.2 39.2





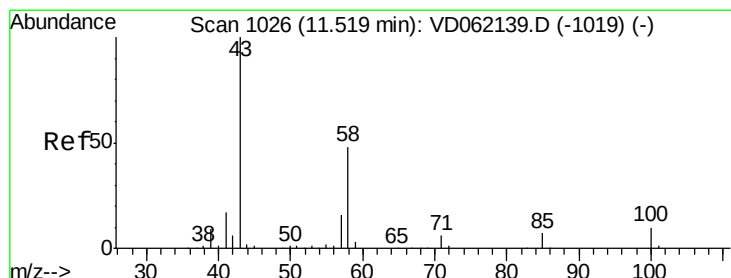
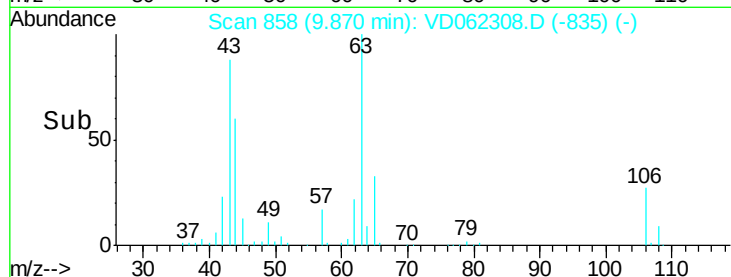
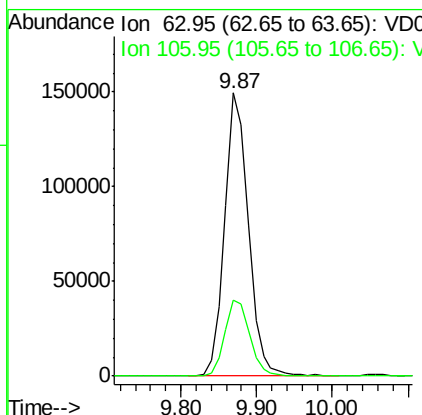
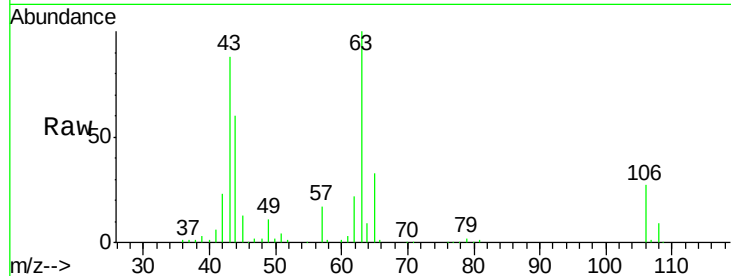
#58
2-Chloroethyl Vinyl ether
Concen: 231.079 ug/l
RT: 9.87 min Scan# 858
Delta R.T. 0.02 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion: 63 Resp: 324649
Ion Ratio Lower Upper
63 100
106 27.1 22.6 34.0

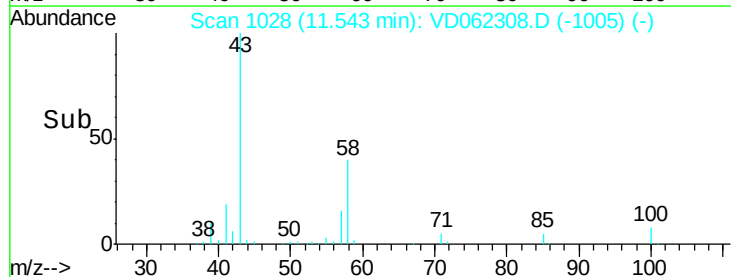
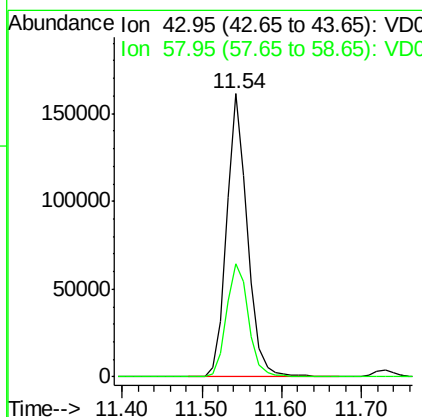
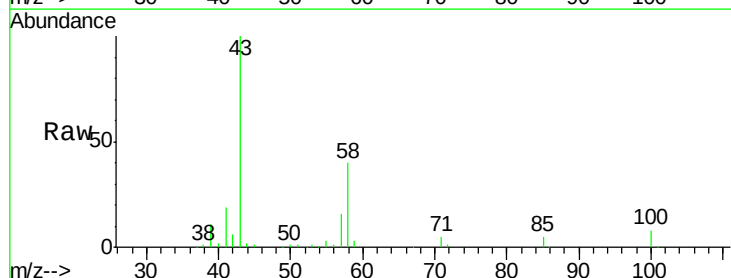
Manual Integrations
APPROVED

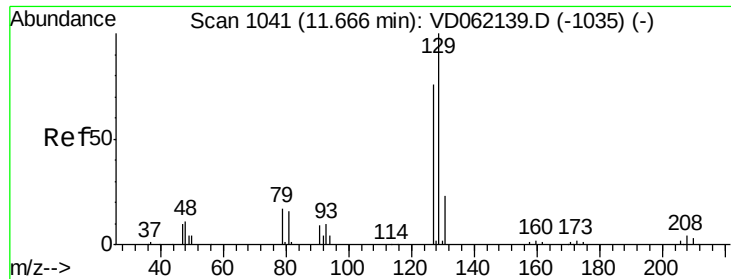
MMDadoda
5/14/2019 9:50:40 AM



#59
2-Hexanone
Concen: 217.104 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion: 43 Resp: 294551
Ion Ratio Lower Upper
43 100
58 39.8 25.4 76.4





#60

Dibromochloromethane

Concen: 50.400 ug/l

RT: 11.70 min Scan# 1044

Delta R.T. 0.03 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:129 Resp: 215586

Ion Ratio Lower Upper

129 100

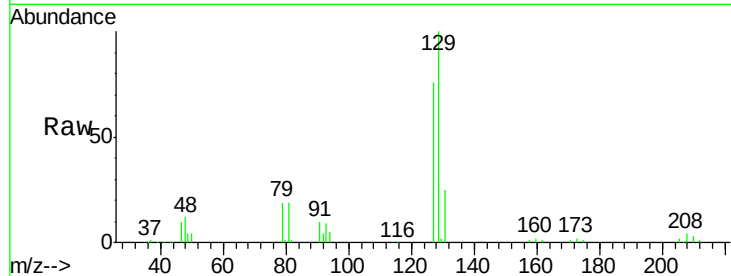
127 75.9 38.0 113.9

Manual Integrations

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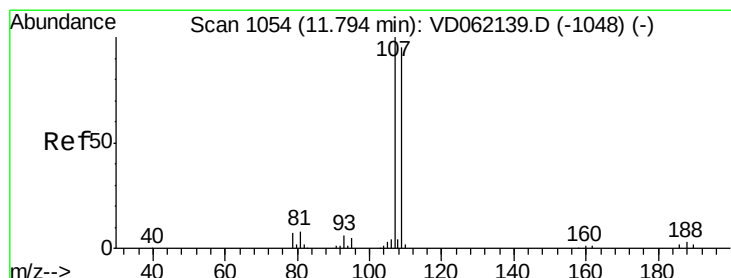
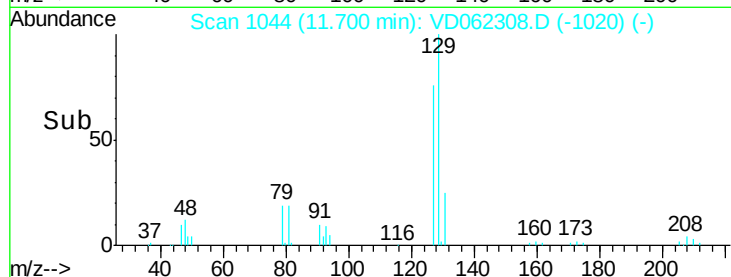
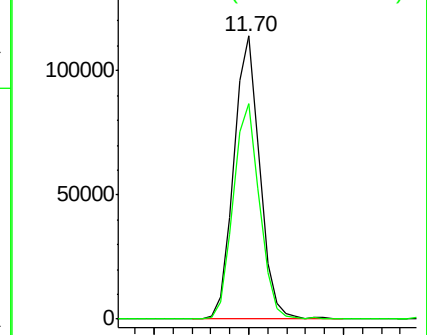
MMDadoda

5/14/2019 9:50:40 AM



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 41.253 ug/l

RT: 11.82 min Scan# 1056

Delta R.T. 0.02 min

Lab File: VD062308.D

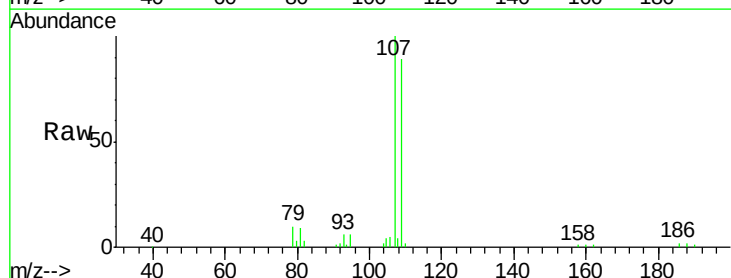
Acq: 13 May 2019 16:49

Tgt Ion:107 Resp: 124136

Ion Ratio Lower Upper

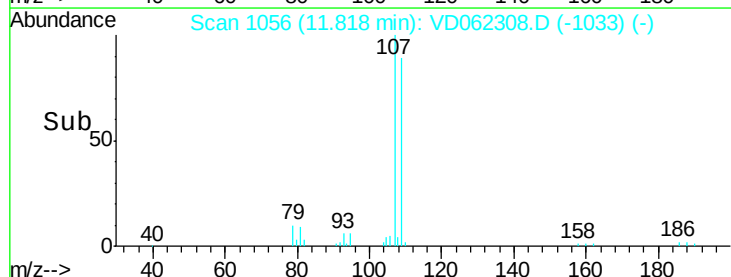
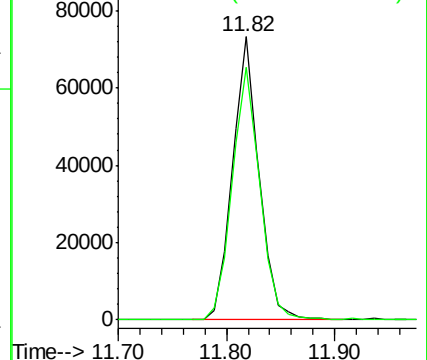
107 100

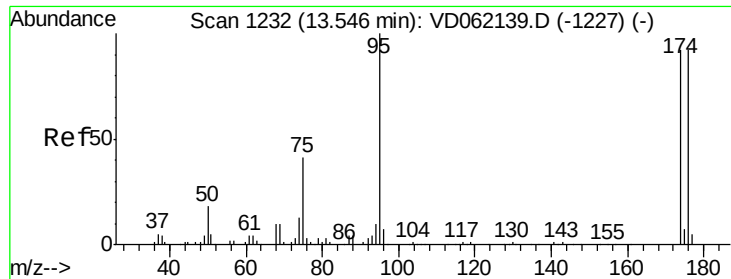
109 89.1 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V





#62

4-Bromofluorobenzene

Concen: 30.211 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 95 Resp: 140932

Ion Ratio Lower Upper

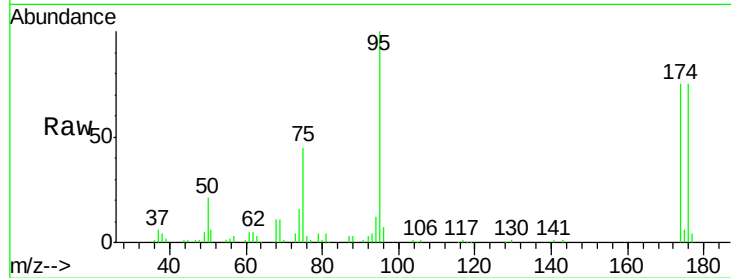
95 100

174 75.2 0.0 181.8

176 75.4 0.0 174.4

Manual Integrations
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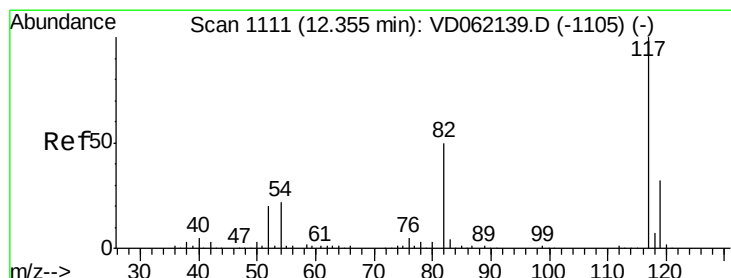
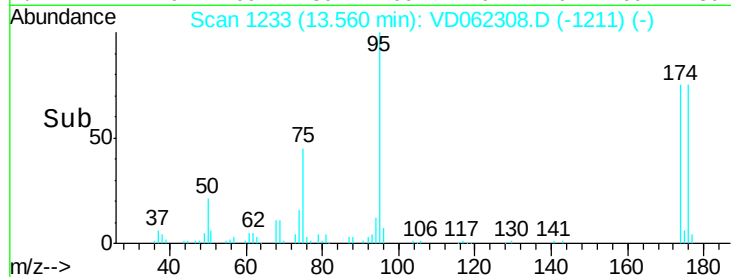
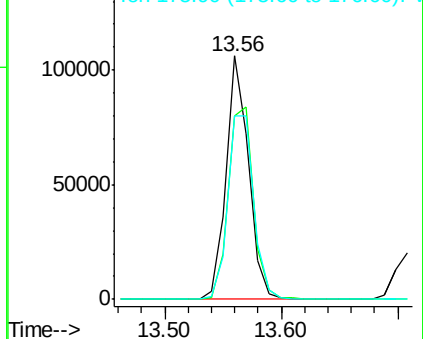
MMDadoda
5/14/2019 9:50:40 AM



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Tgt Ion: 117 Resp: 328437

Ion Ratio Lower Upper

117 100

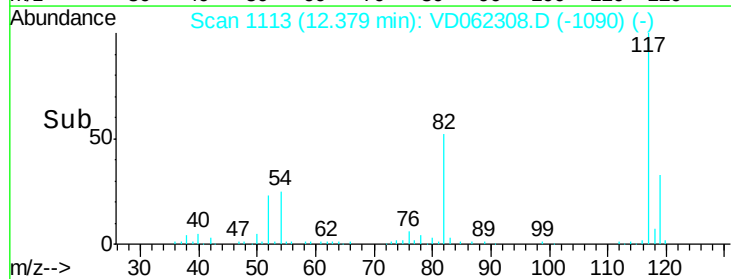
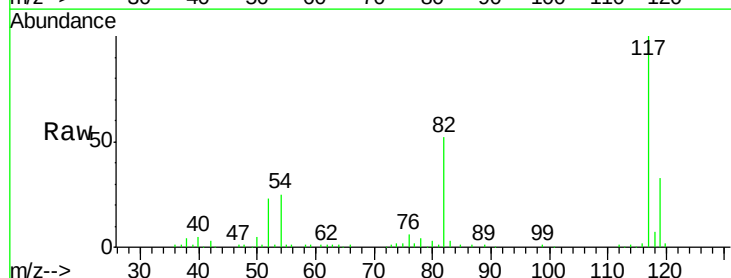
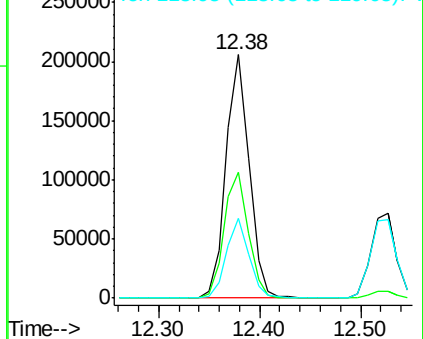
82 51.6 36.2 54.2

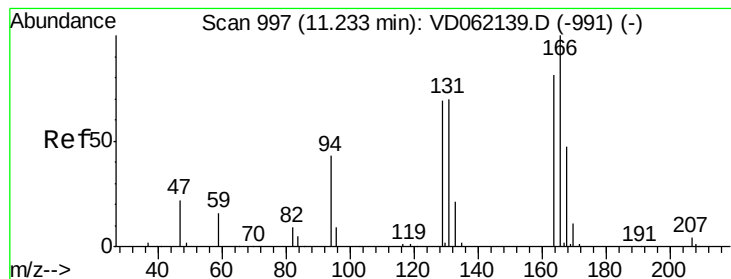
119 32.9 26.2 39.4

Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#64

Tetrachloroethene

Concen: 47.871 ug/l

RT: 11.27 min Scan# 1000

Delta R.T. 0.03 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:164 Resp: 122944

Ion Ratio Lower Upper

164 100

166 132.0 101.5 152.3

129 89.6 74.6 112.0

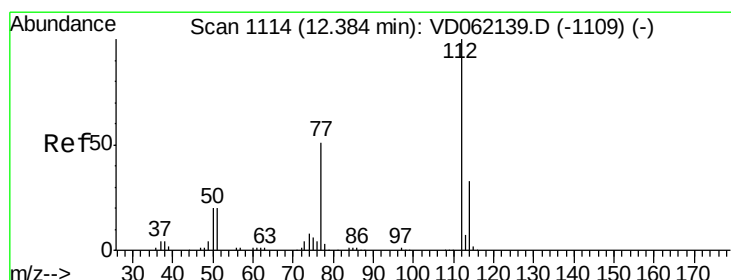
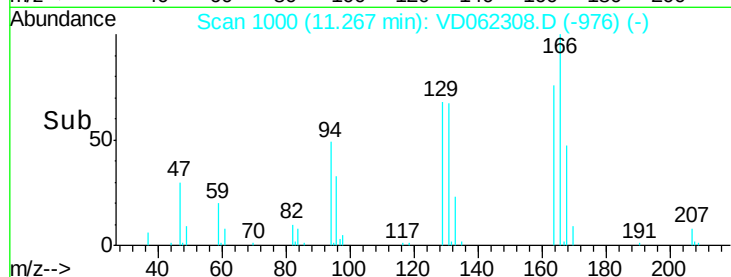
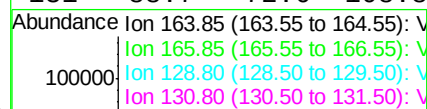
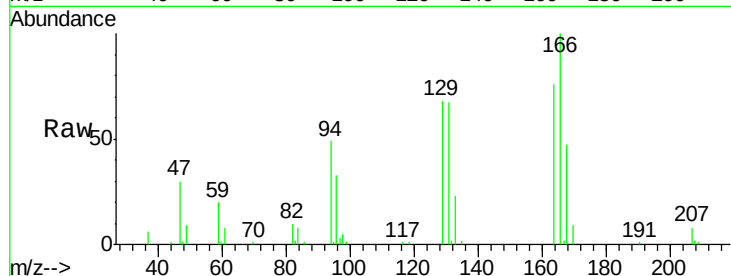
131 88.7 72.6 108.8

Manual Integrations

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#65

Chlorobenzene

Concen: 45.213 ug/l

RT: 12.41 min Scan# 1116

Delta R.T. 0.02 min

Lab File: VD062308.D

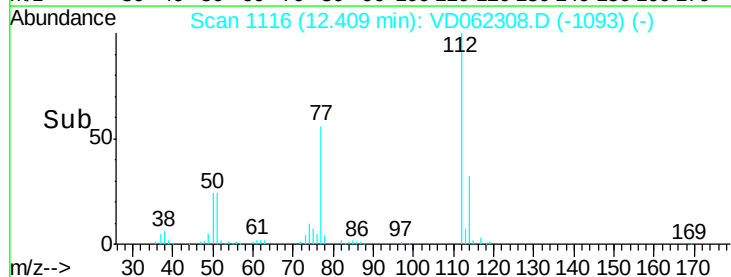
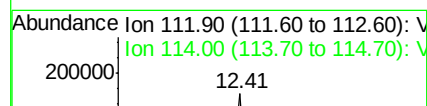
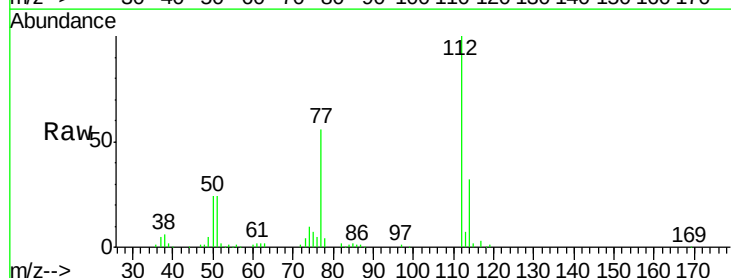
Acq: 13 May 2019 16:49

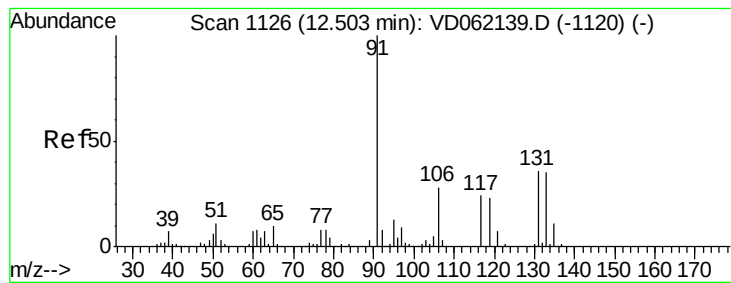
Tgt Ion:112 Resp: 276577

Ion Ratio Lower Upper

112 100

114 32.2 25.8 38.8





#66

1,1,1,2-Tetrachloroethane

Concen: 76.545 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. 0.02 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

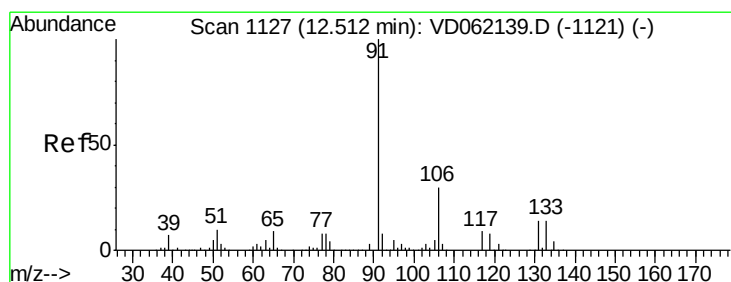
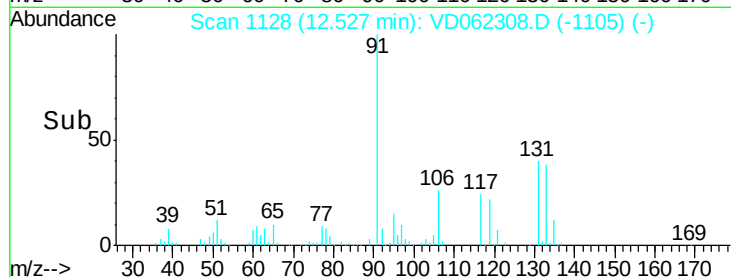
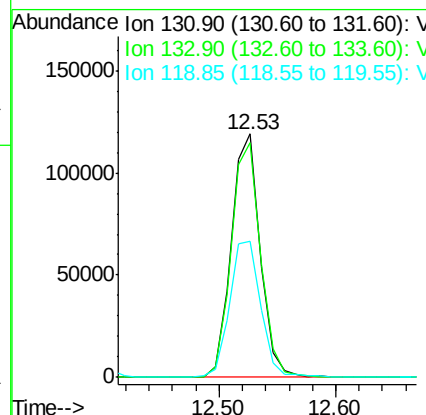
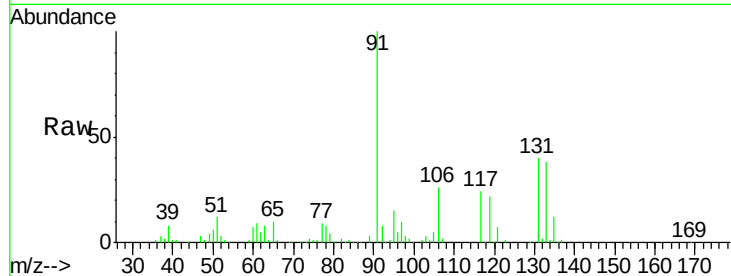
ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:	131	Resp:	203787
Ion Ratio	Lower	Upper	
131	100		
133	96.5	48.6	145.8
119	55.9	34.7	104.1

Manual Integrations
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#67

Ethyl Benzene

Concen: 52.626 ug/l

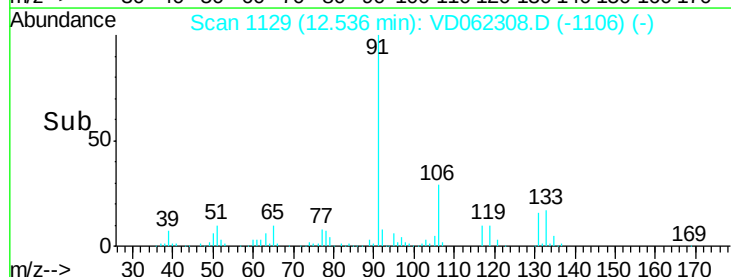
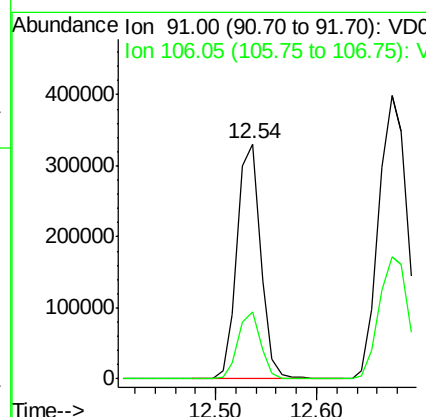
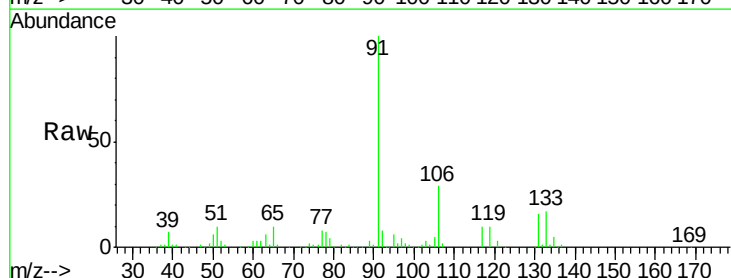
RT: 12.54 min Scan# 1129

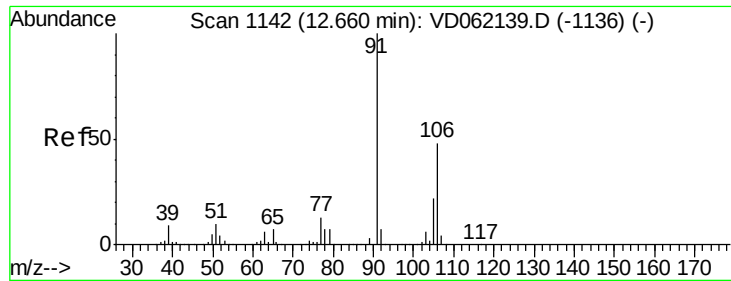
Delta R.T. 0.02 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Tgt Ion:	91	Resp:	538947
Ion Ratio	Lower	Upper	
91	100		
106	28.5	24.7	37.1





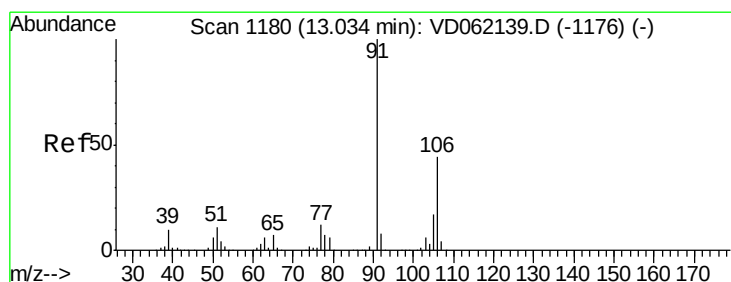
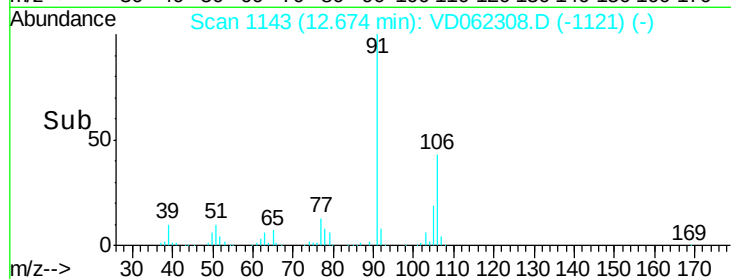
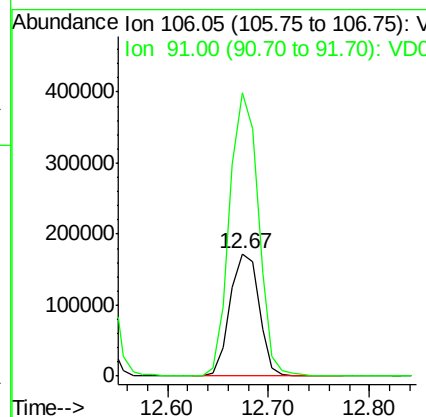
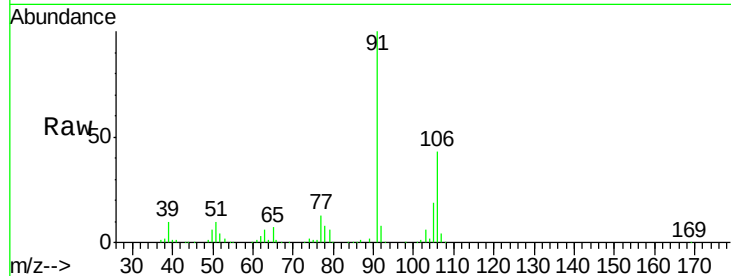
#68
m/p-Xylenes
Concen: 93.488 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion:106 Resp: 348336
Ion Ratio Lower Upper
106 100
91 231.0 164.0 246.0

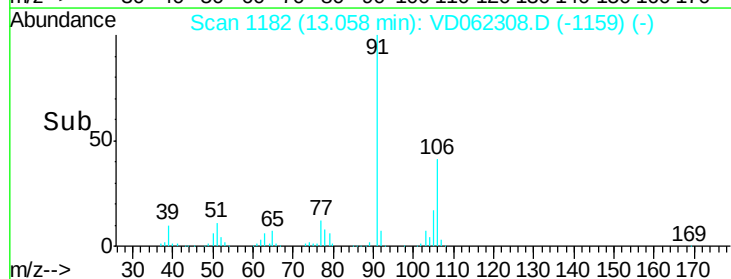
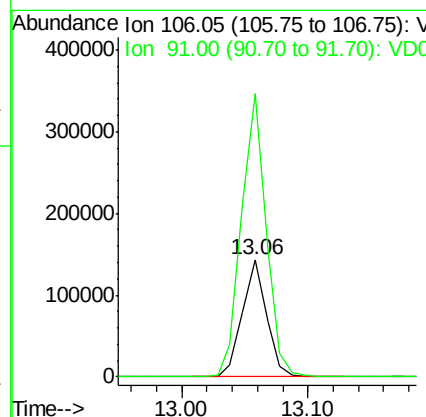
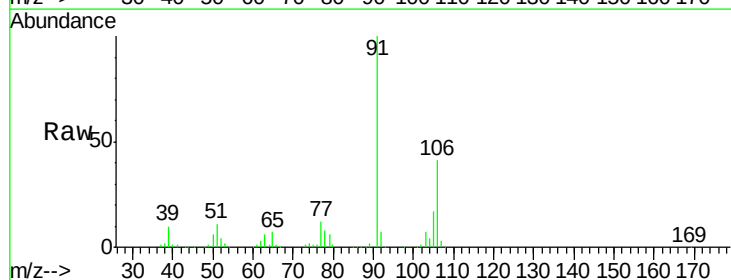
Manual Integrations
APPROVED

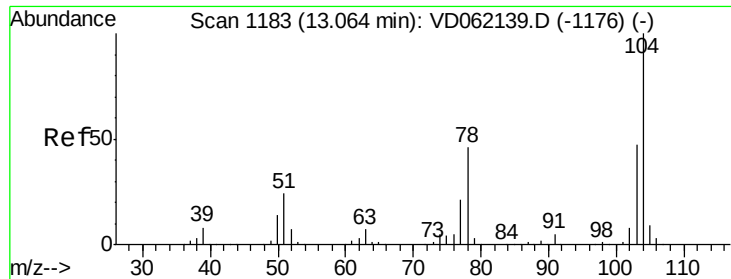
MMDadoda
5/14/2019 9:50:40 AM



#69
o-Xylene
Concen: 54.983 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion:106 Resp: 190462
Ion Ratio Lower Upper
106 100
91 241.2 106.7 319.9





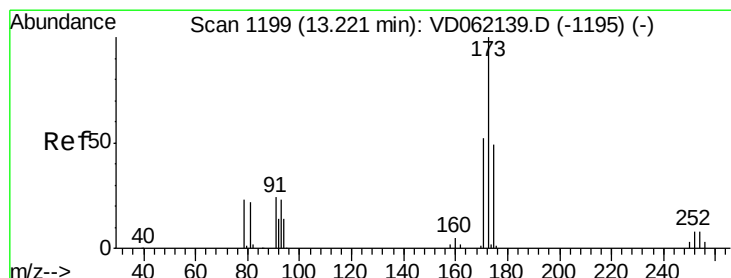
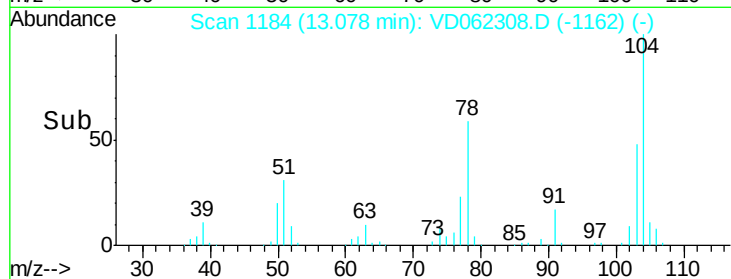
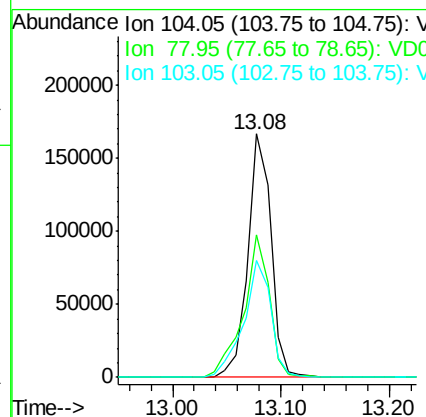
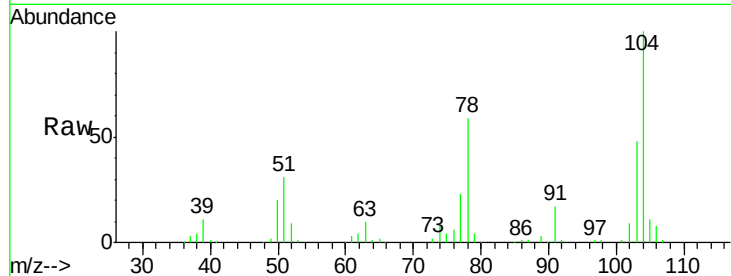
#70
Stvrene
Concen: 42.245 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
104	100	247896		
78	58.5	35.4	53.2#	
103	48.2	37.5	56.3	

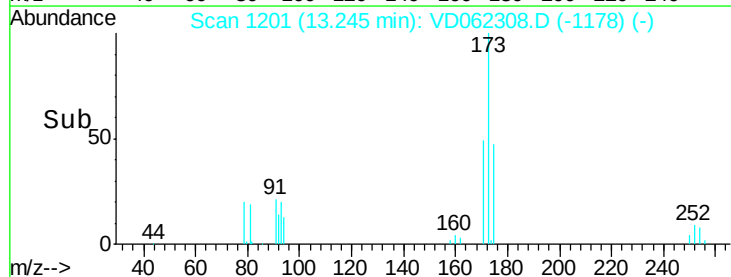
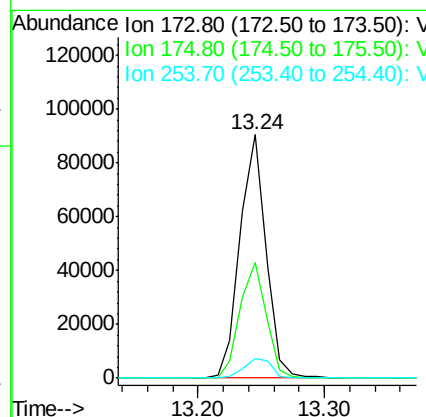
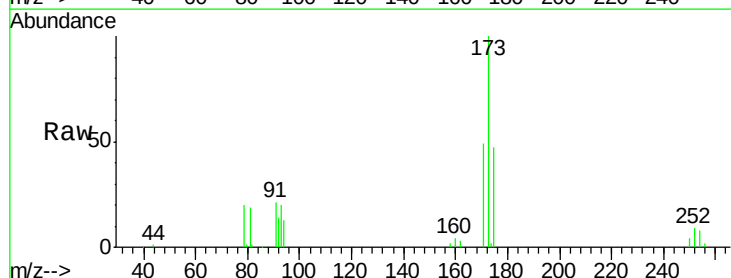
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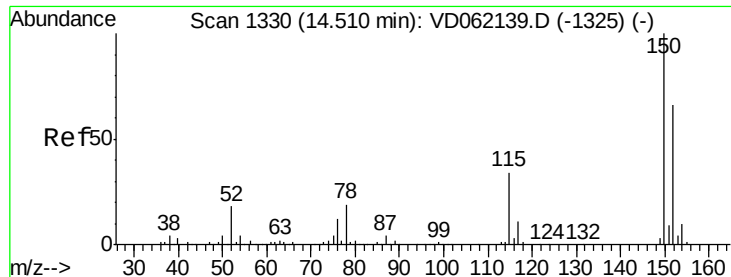
MMDadoda
5/14/2019 9:50:40 AM



#71
Bromoform
Concen: 69.476 ug/l
RT: 13.24 min Scan# 1201
Delta R.T. 0.02 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	128688		
175	47.5	24.4	73.4	
254	8.1	5.4	8.2	





#72

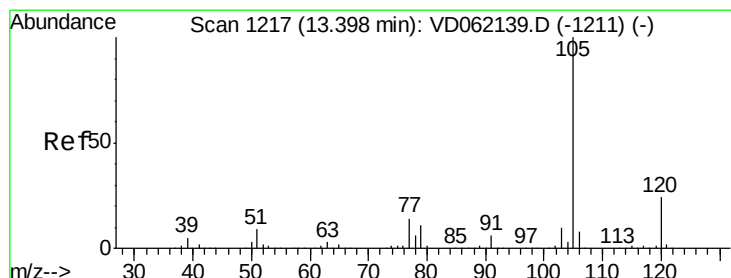
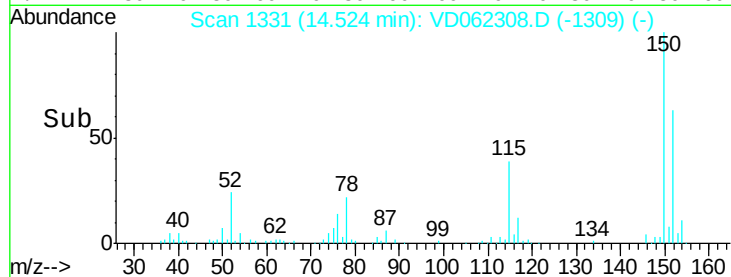
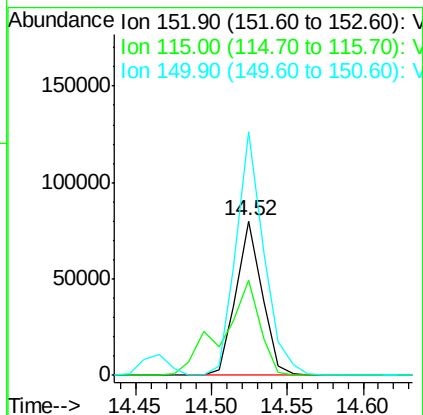
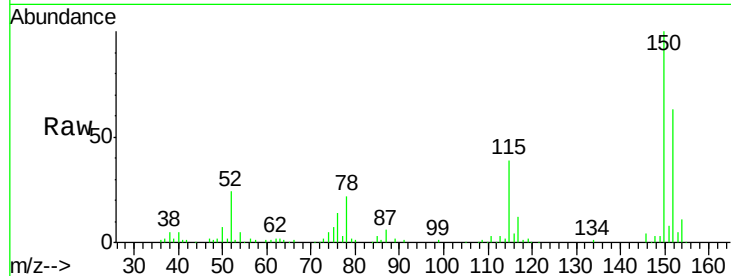
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.5	30.9	92.7
150	158.1	0.0	314.8

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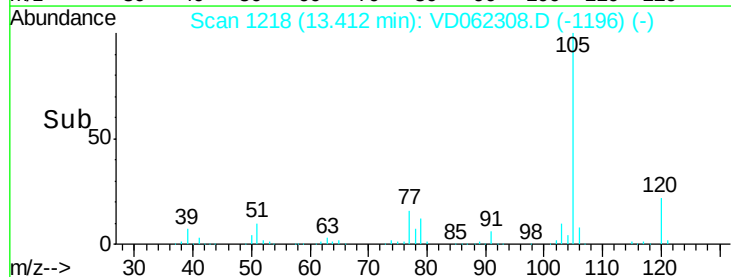
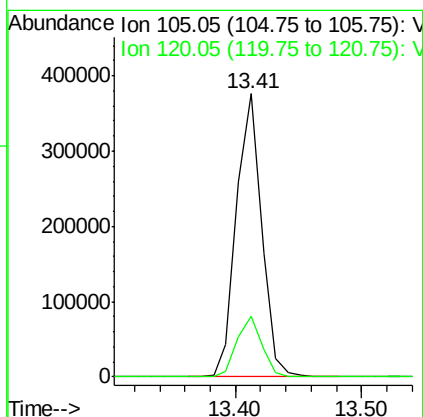
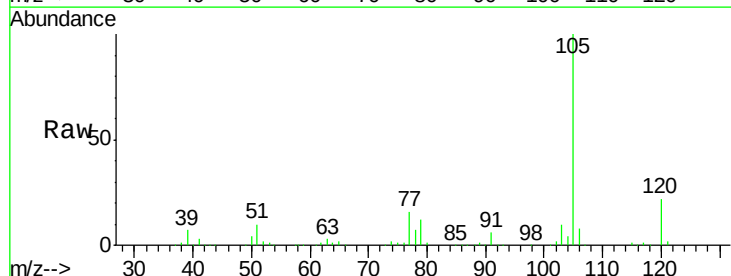
MMDadoda
5/14/2019 9:50:40 AM

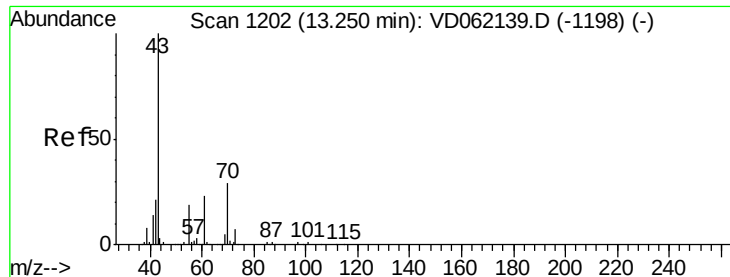


#73

Isopropylbenzene
Concen: 90.505 ug/l
RT: 13.41 min Scan# 1218
Delta R.T. 0.01 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	21.6	12.0	36.1





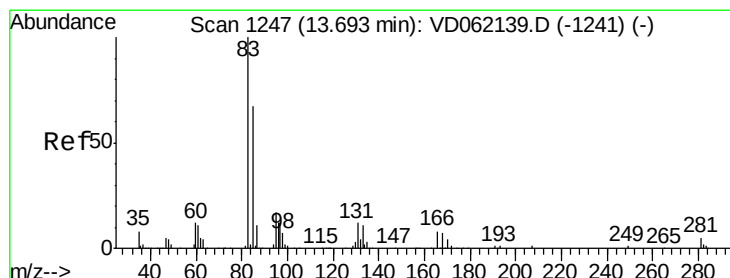
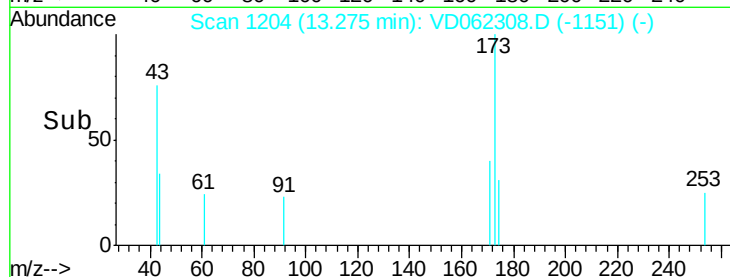
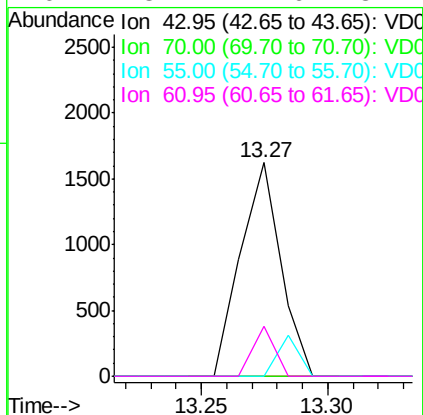
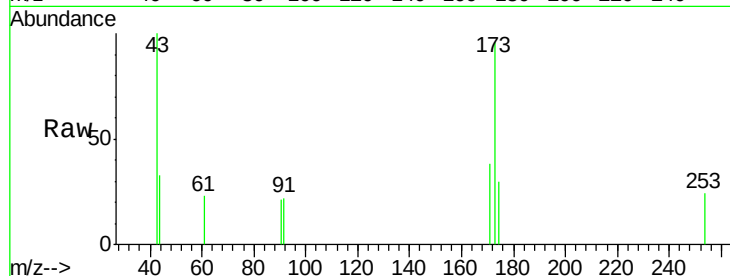
#74
N-amvl acetate
Concen: 1.195 ug/l
RT: 13.27 min Scan# 1204
Delta R.T. 0.02 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion	Ratio	Lower	Upper
43	100		
70	0.0	24.2	36.4#
55	0.0	16.0	24.0#
61	23.2	21.6	32.4

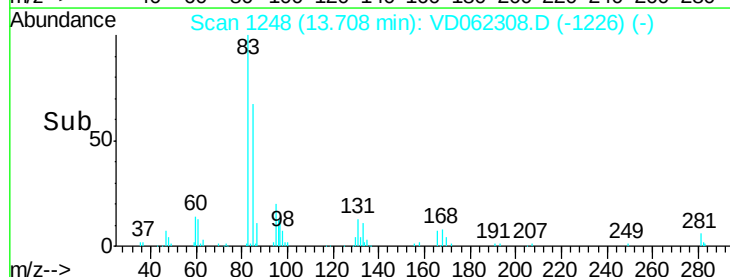
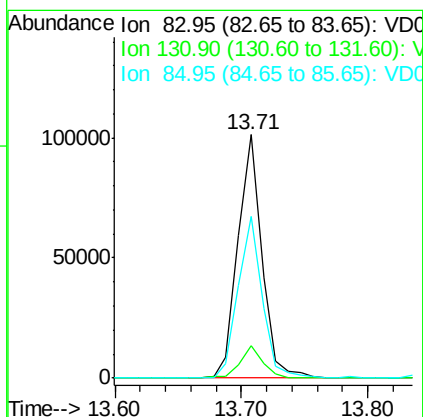
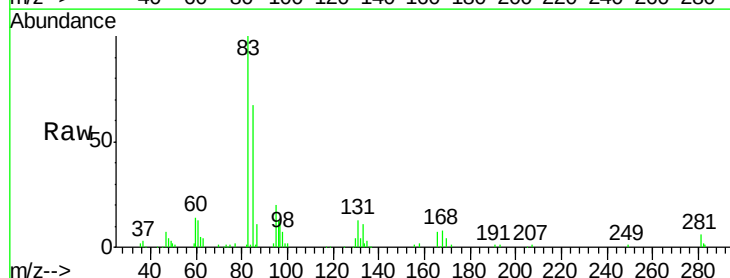
Manual Integrations
APPROVED

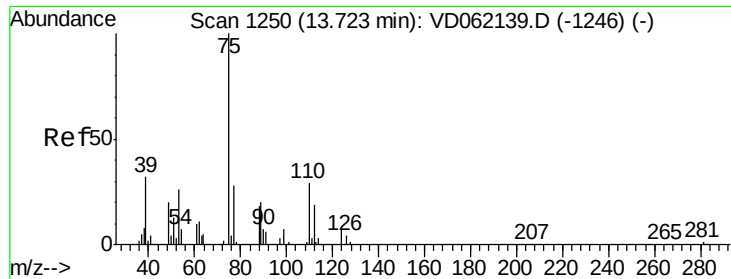
MMDadoda
5/14/2019 9:50:40 AM



#75
1,1,2,2-Tetrachloroethane
Concen: 121.605 ug/l
RT: 13.71 min Scan# 1248
Delta R.T. 0.01 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Lower	Upper
83	100		
131	13.2	5.0	14.9
85	66.6	32.6	97.7





#76

1,2,3-Trichloropropane

Concen: 101.718 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 75 Resp: 115775

Ion Ratio Lower Upper

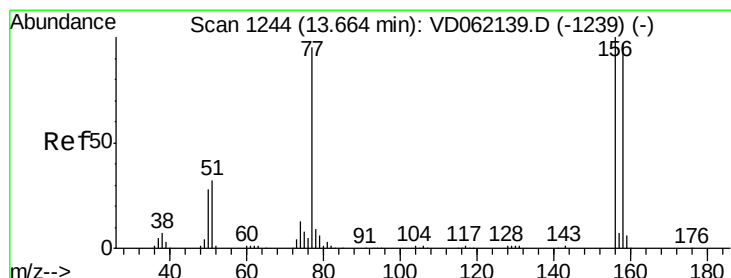
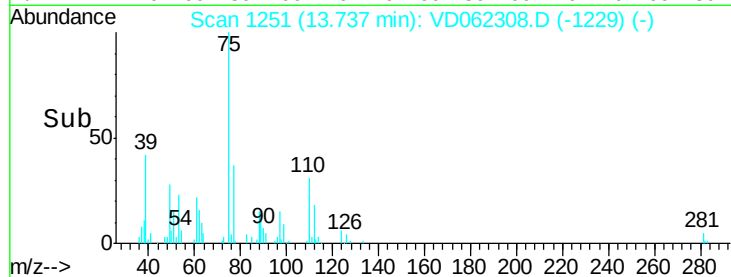
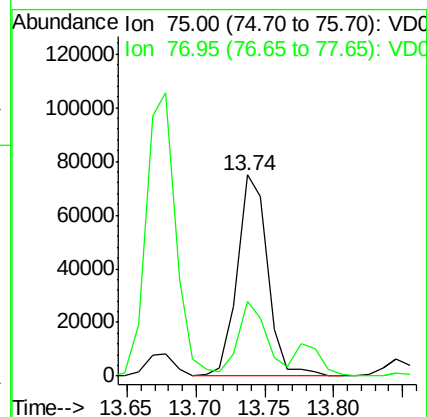
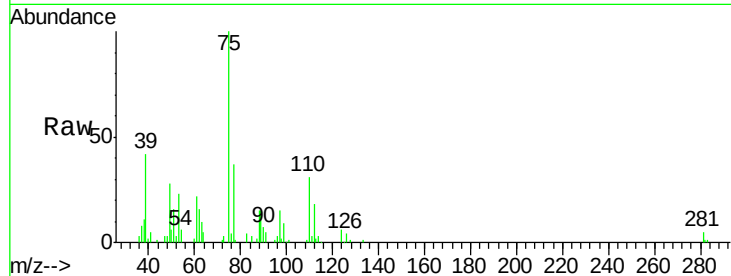
75 100

77 37.2 16.4 49.4

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MMDadoda

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#77

Bromobenzene

Concen: 78.309 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

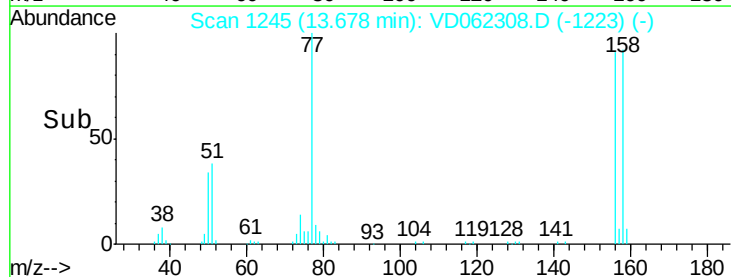
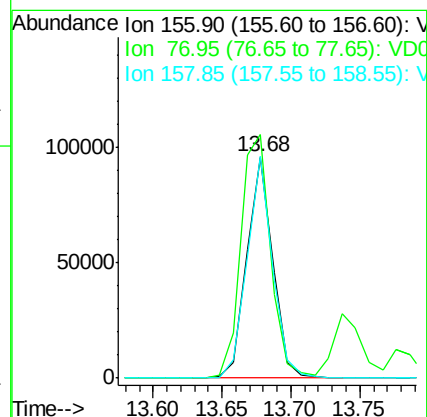
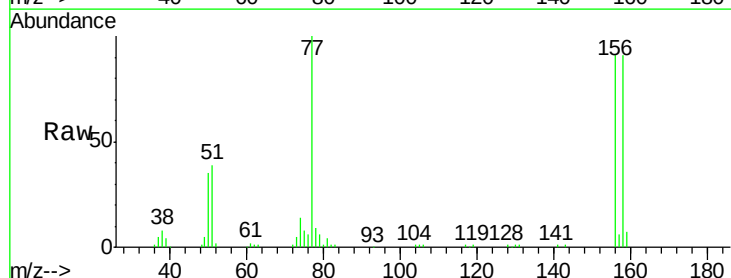
Tgt Ion: 156 Resp: 125851

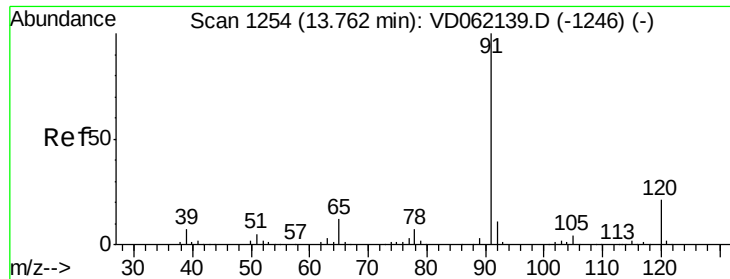
Ion Ratio Lower Upper

156 100

77 110.2 53.1 159.4

158 100.6 49.4 148.0





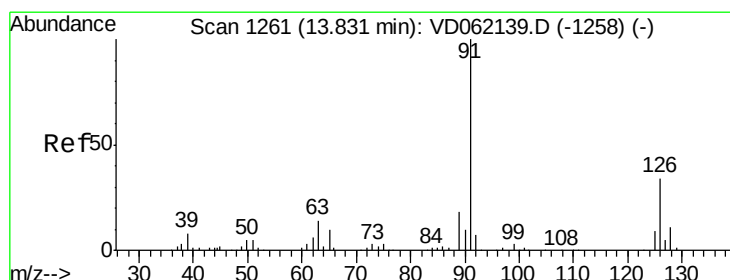
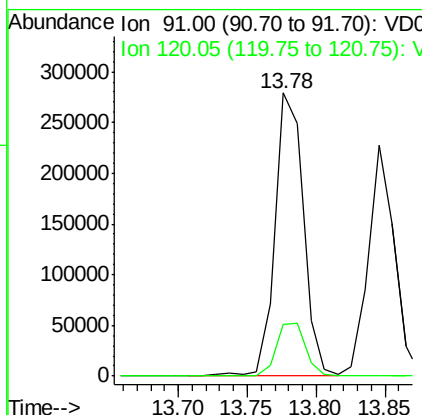
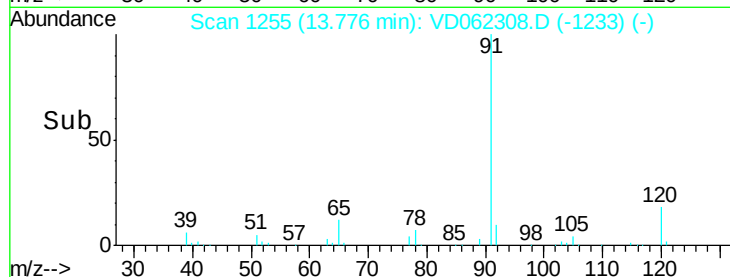
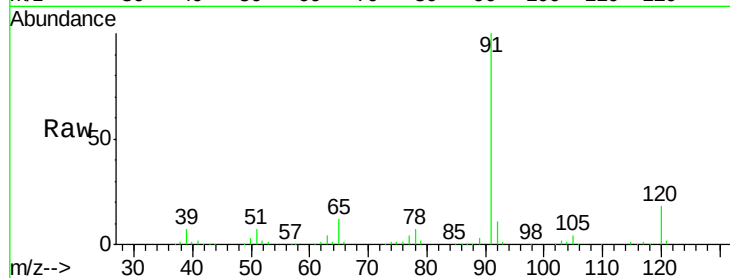
#78
n-propylbenzene
Concen: 58.113 ug/l
RT: 13.78 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Instrument :
MSVOA_D
ClientSampleId :
P026-SS012-0002-01MSD

Tot Ion: 91 Resp: 397980
Ion Ratio Lower Upper
91 100
120 18.4 11.1 33.1

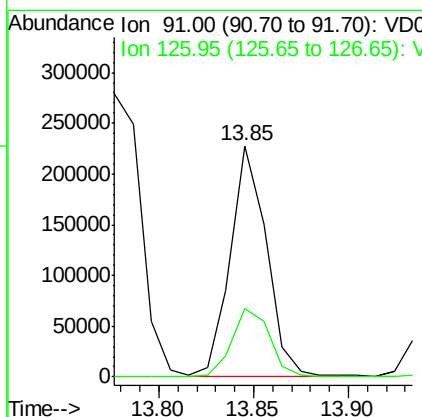
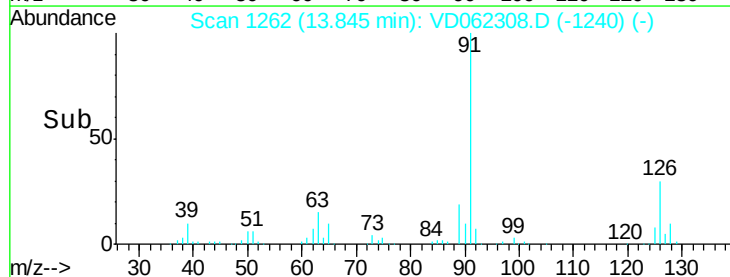
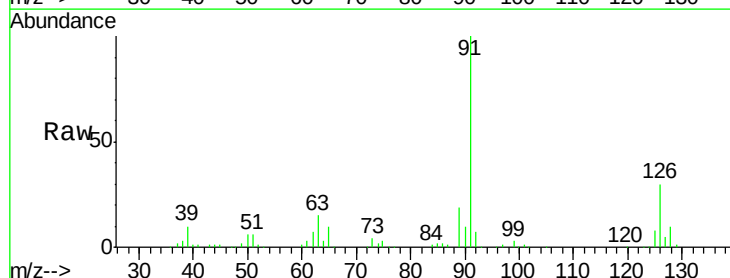
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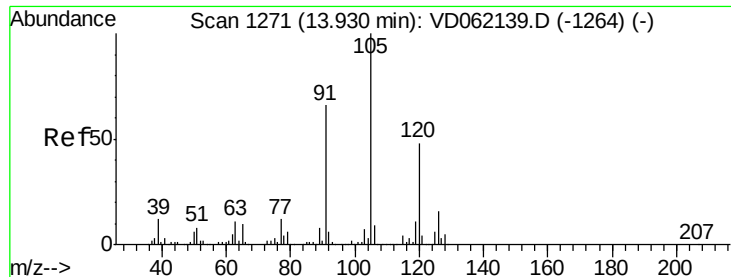
MMDadoda
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#79
2-Chlorotoluene
Concen: 76.198 ug/l
RT: 13.85 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VD062308.D
Acq: 13 May 2019 16:49

Tgt Ion: 91 Resp: 298861
Ion Ratio Lower Upper
91 100
126 29.5 18.6 55.8





#80

1,3,5-Trimethylbenzene

Concen: 83.921 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 105 Resp: 405705

Ion Ratio Lower Upper

105 100

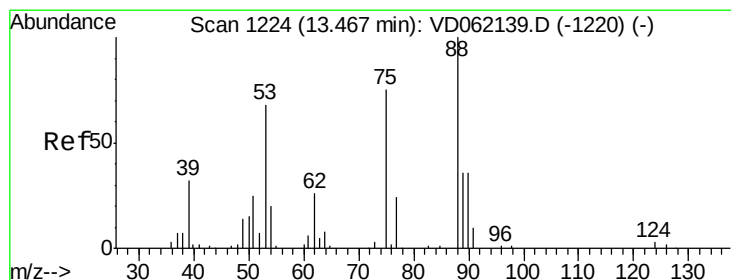
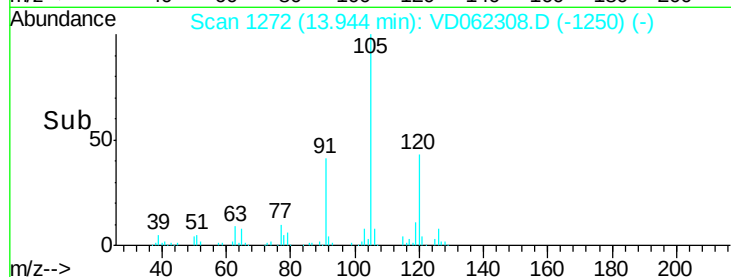
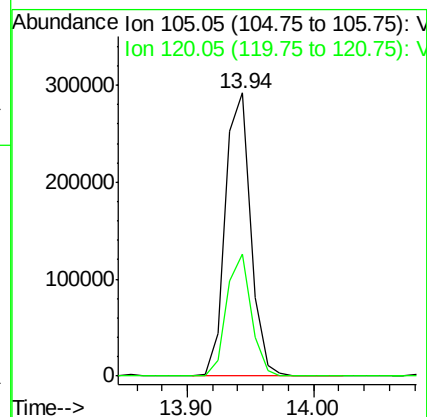
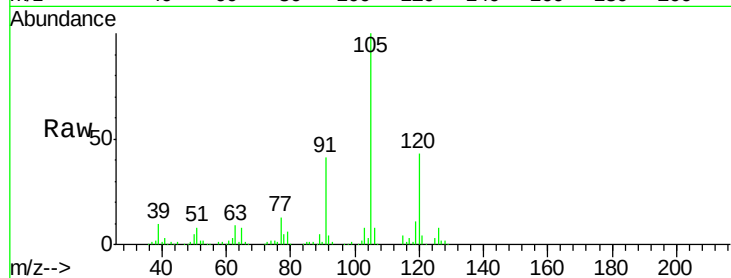
120 43.1 24.0 72.0

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#81

trans-1,4-Dichloro-2-butene

Concen: 84.888 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

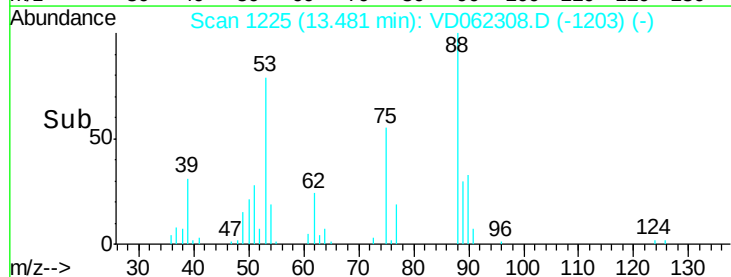
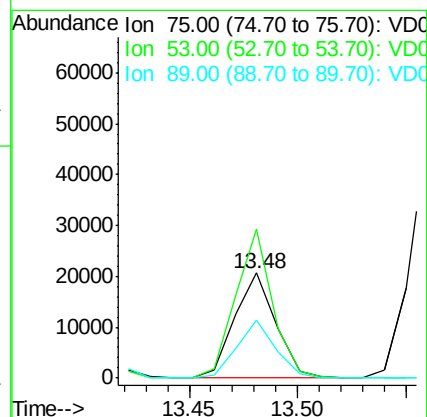
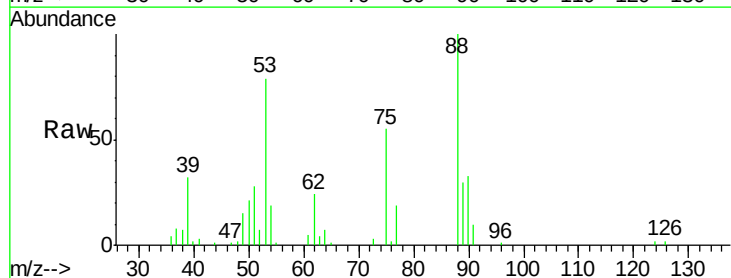
Tgt Ion: 75 Resp: 27276

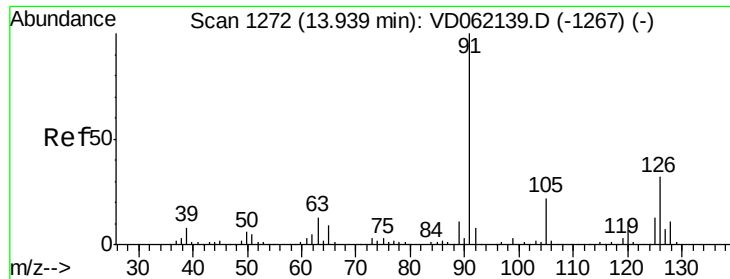
Ion Ratio Lower Upper

75 100

53 142.1 65.8 98.8#

89 54.9 35.0 52.6#





#82

4-Chlorotoluene

Concen: 62.403 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion: 91 Resp: 288019

Ion Ratio Lower Upper

91 100

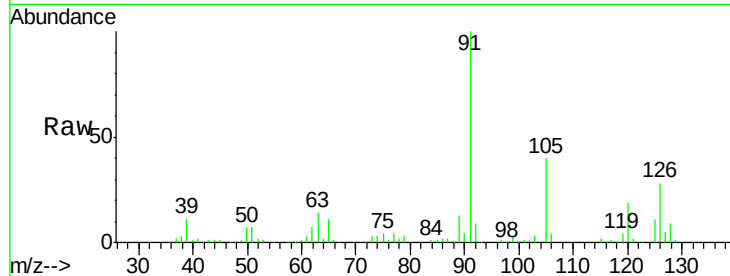
126 27.6 19.1 57.5

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Abundance Ion 91.00 (90.70 to 91.70): VD062139.D (-1267) (-)

Ion 125.95 (125.65 to 126.65): VD062139.D (-1267) (-)

250000

200000

150000

100000

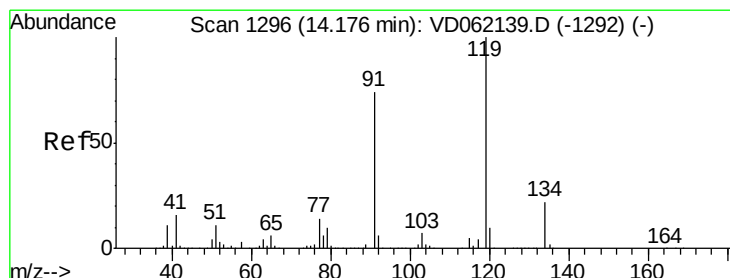
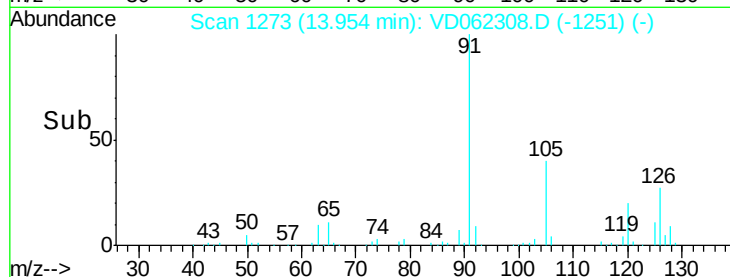
50000

0

13.90

14.00

Time-->



#83

tert-Butylbenzene

Concen: 89.462 ug/l

RT: 14.20 min Scan# 1298

Delta R.T. 0.02 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

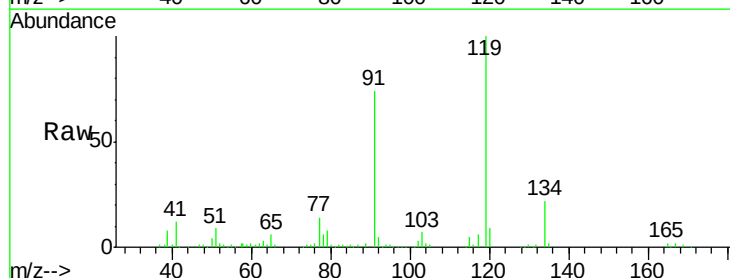
Tgt Ion: 119 Resp: 486116

Ion Ratio Lower Upper

119 100

91 74.4 34.2 102.6

134 22.2 12.0 36.0



Abundance Ion 119.05 (118.75 to 119.75): VD062139.D (-1292) (-)

Ion 91.00 (90.70 to 91.70): VD062139.D (-1292) (-)

Ion 134.00 (133.70 to 134.70): VD062139.D (-1292) (-)

300000

250000

200000

150000

100000

50000

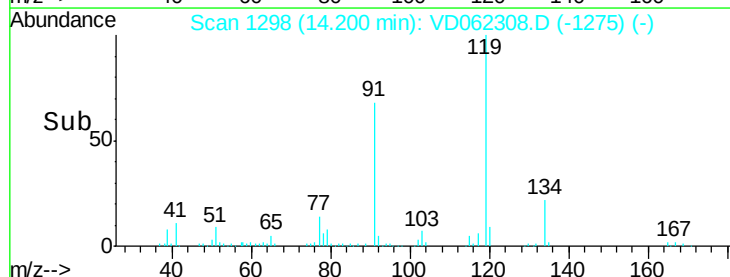
0

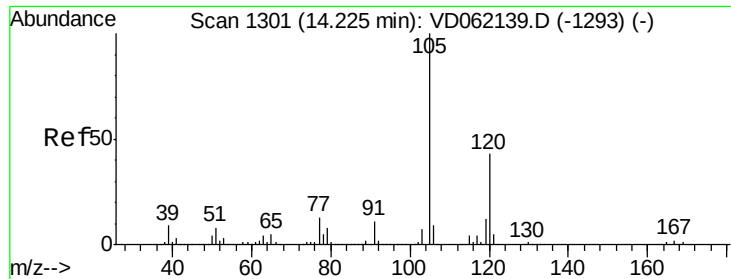
14.10

14.20

14.30

Time-->





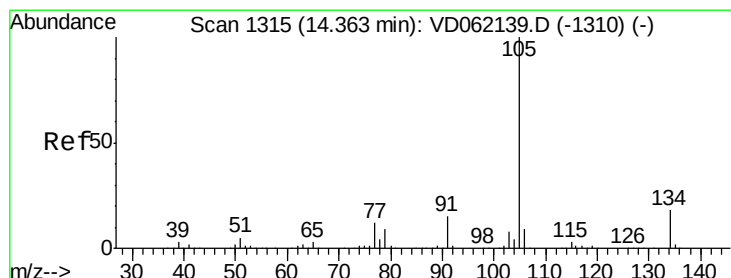
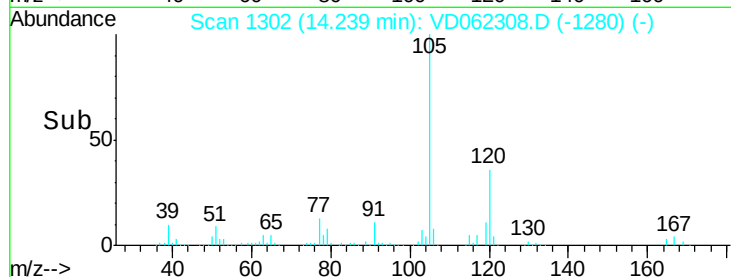
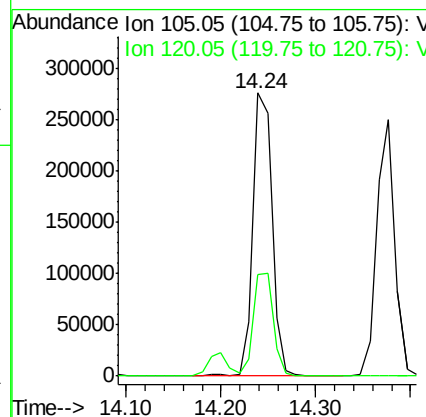
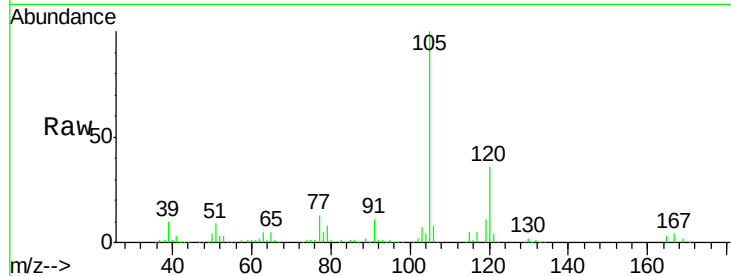
#84
 1,2,4-Trimethylbenzene
 Concen: 80.229 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion:105 Resp: 389213
 Ion Ratio Lower Upper
 105 100
 120 36.0 23.1 69.2

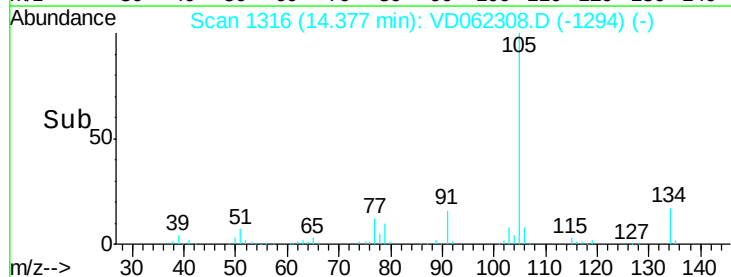
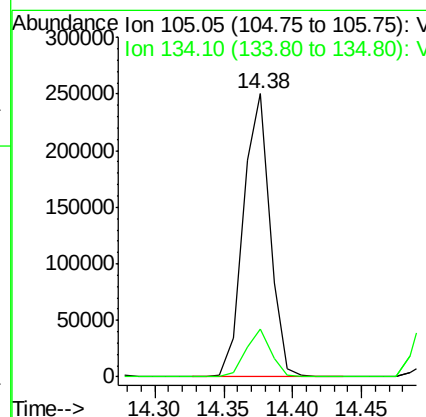
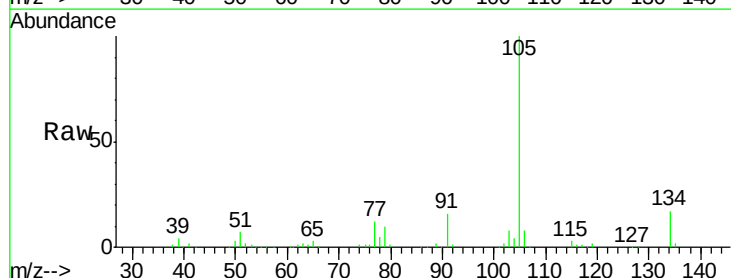
Manual Integrations
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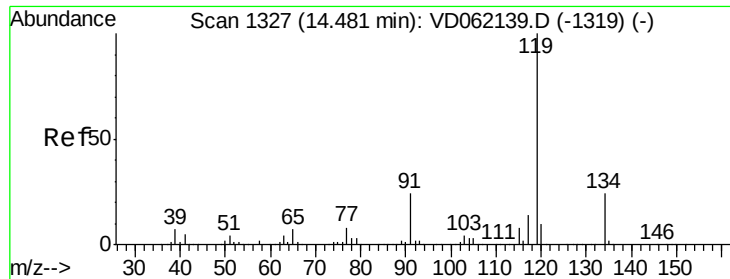
MMDadoda
 5/14/2019 9:50:40 AM



#85
 sec-Butylbenzene
 Concen: 56.612 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Tgt Ion:105 Resp: 337276
 Ion Ratio Lower Upper
 105 100
 134 17.0 8.9 26.7





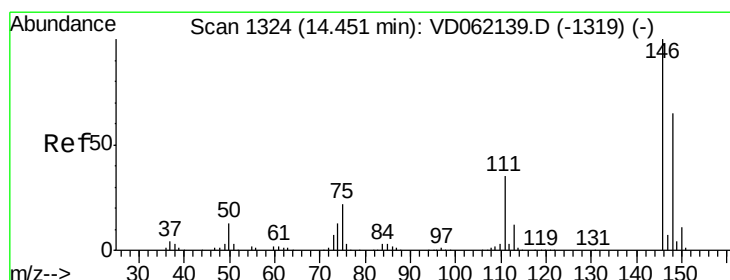
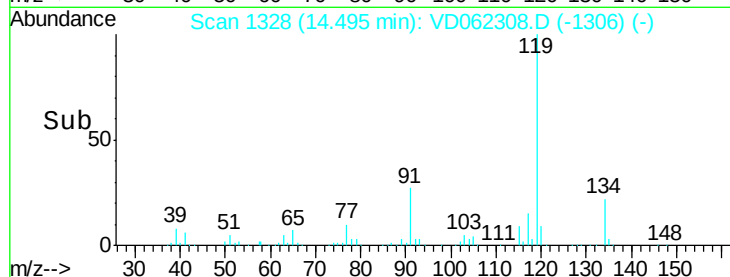
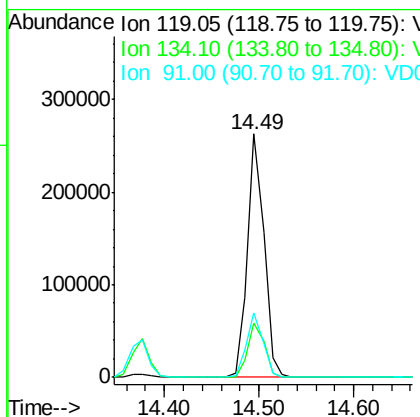
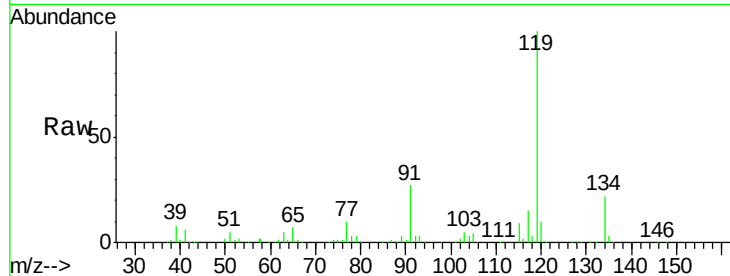
#86
 p-Isopropyltoluene
 Concen: 59.736 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	317964		
134	22.2	12.8	38.3	
91	26.7	10.7	32.1	

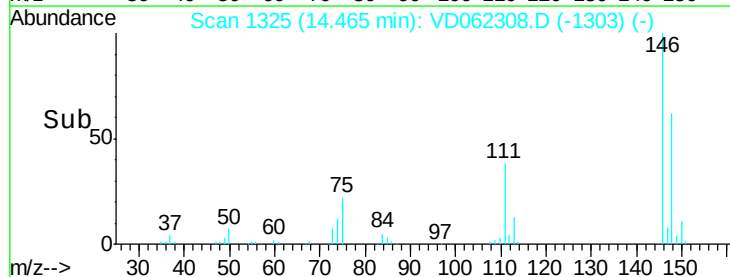
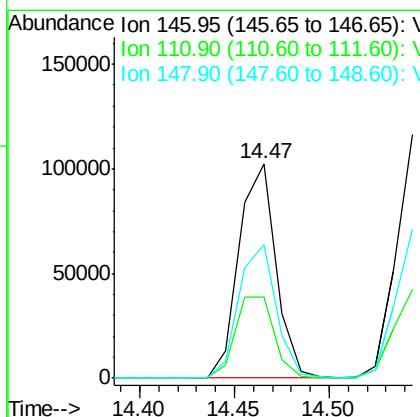
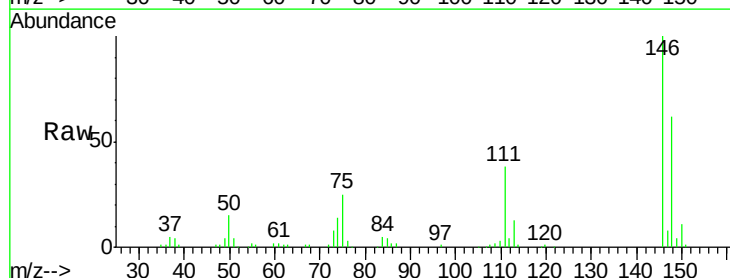
Manual Integrations
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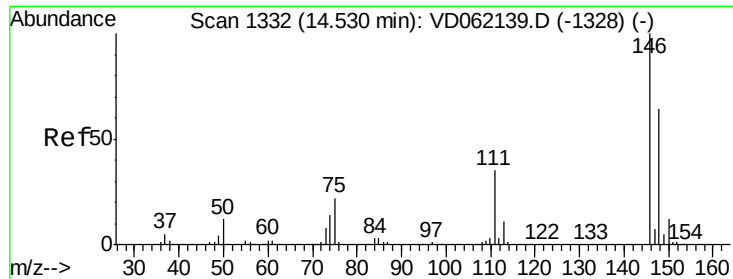
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#87
 1,3-Dichlorobenzene
 Concen: 47.090 ug/l
 RT: 14.47 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	138248		
111	37.7	20.0	60.0	
148	62.1	31.8	95.4	





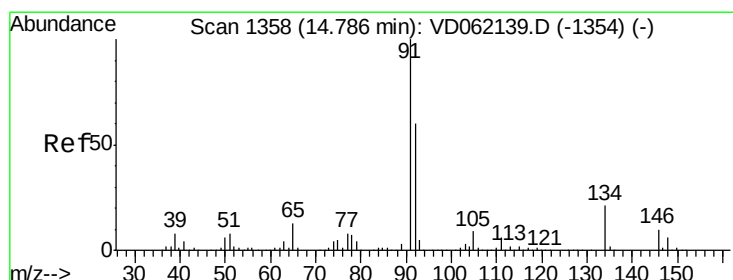
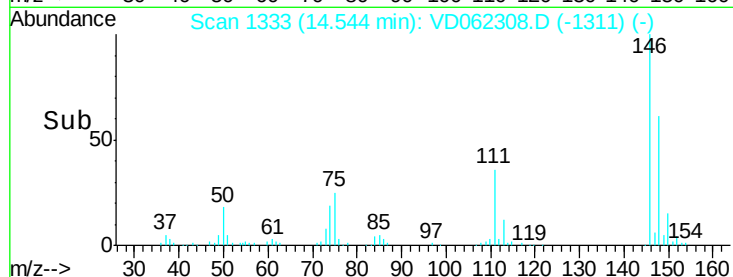
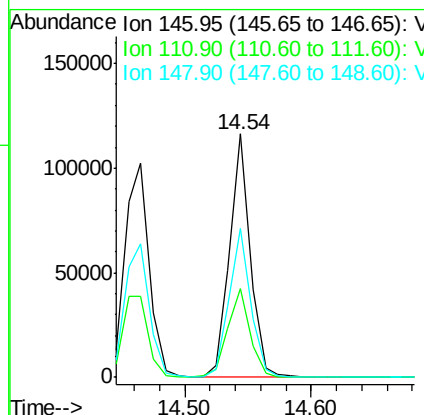
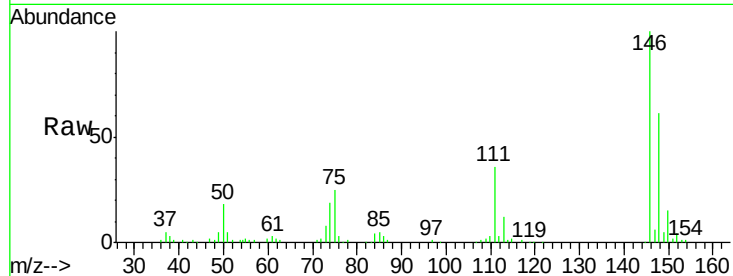
#88
 1,4-Dichlorobenzene
 Concen: 45.542 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	20.2	60.5
148	61.3	32.0	96.2

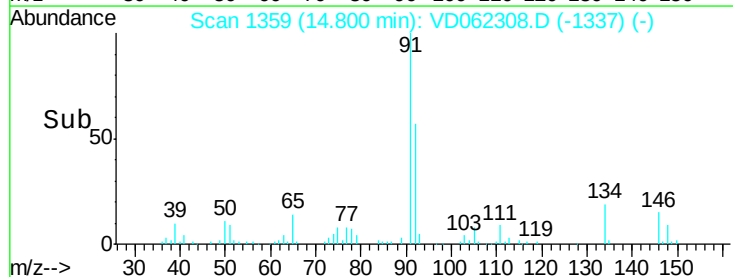
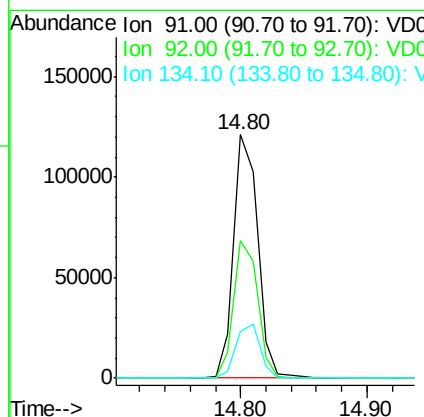
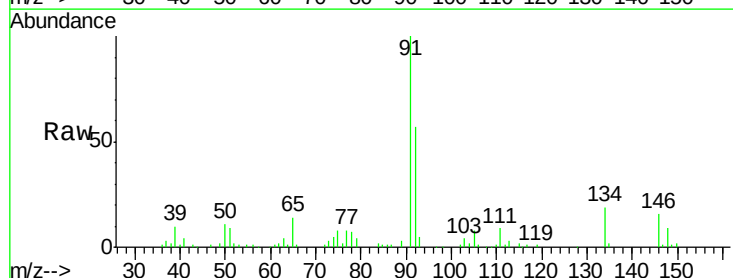
Manual Integrations
 APPROVED

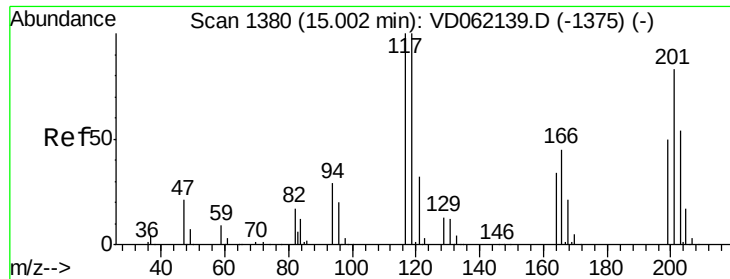
MMDadoda
 5/14/2019 9:50:40 AM



#89
 n-Butylbenzene
 Concen: 33.226 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.6	30.3	91.0
134	19.1	14.5	43.6





#90

Hexachloroethane

Concen: 80.800 ug/l

RT: 15.02 min Scan# 1381

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:117 Resp: 116960

Ion Ratio Lower Upper

117 100

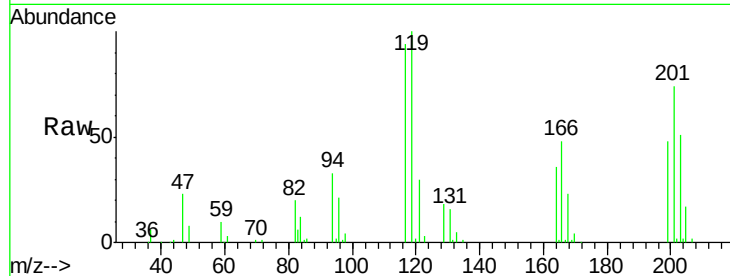
201 79.1 30.2 90.6

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Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

15.02

100000

80000

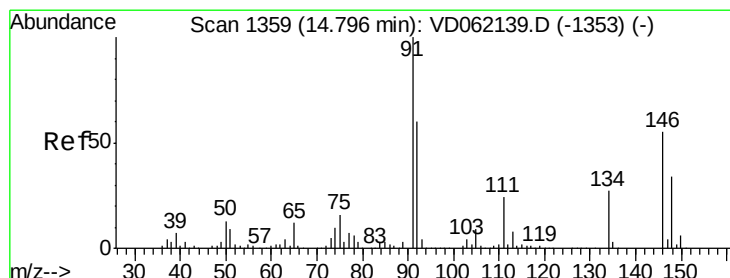
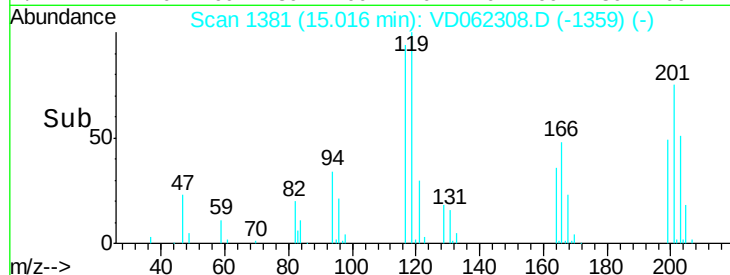
60000

40000

20000

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 58.378 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

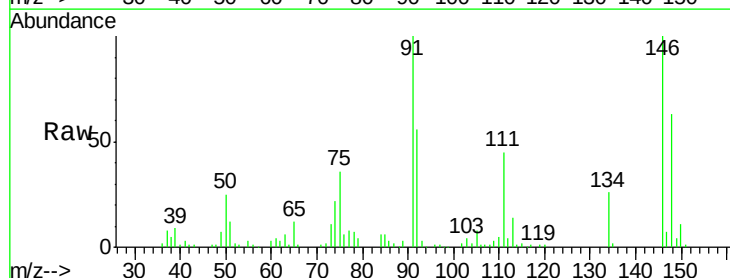
Tgt Ion:146 Resp: 141148

Ion Ratio Lower Upper

146 100

111 45.5 20.0 59.9

148 62.8 32.3 96.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

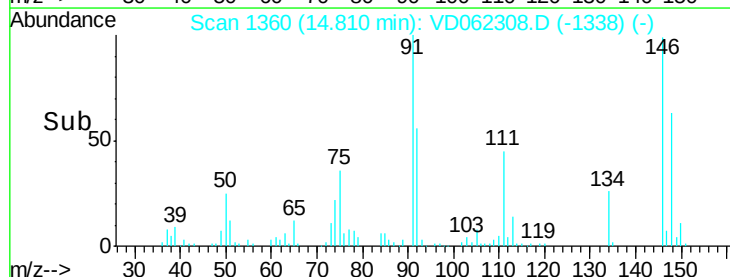
14.81

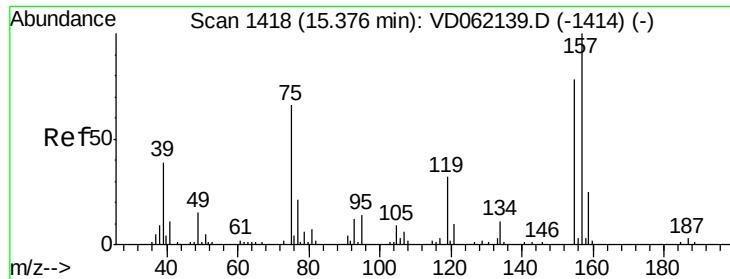
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 111.795 ug/l

RT: 15.39 min Scan# 1419

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

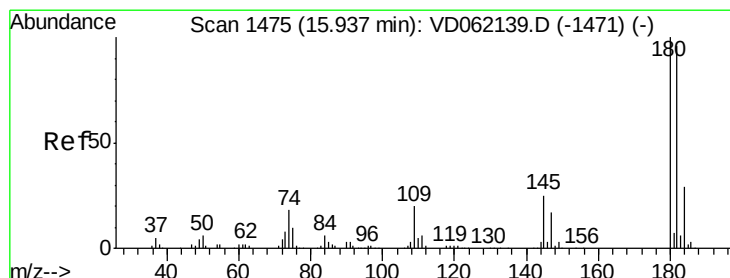
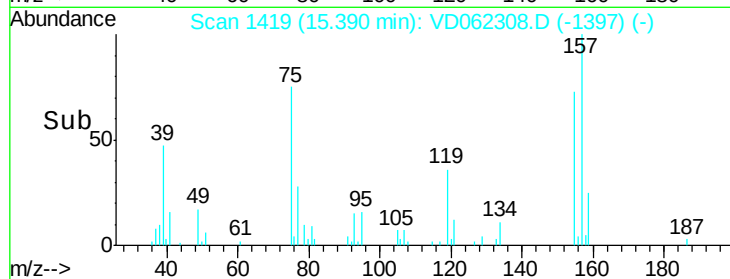
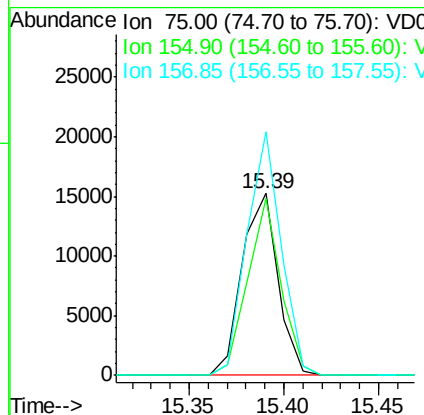
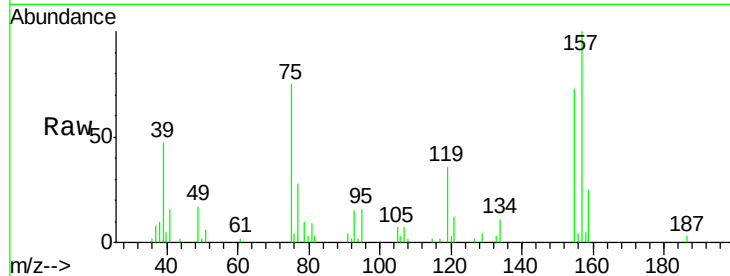
ClientSampleId :

P026-SS012-0002-01MSD

Tot Ion:	75	Resp:	19945
Ion Ratio	Lower	Upper	
75	100		
155	97.5	55.3	165.8
157	133.9	67.8	203.2

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#93

1,2,4-Trichlorobenzene

Concen: 28.024 ug/l

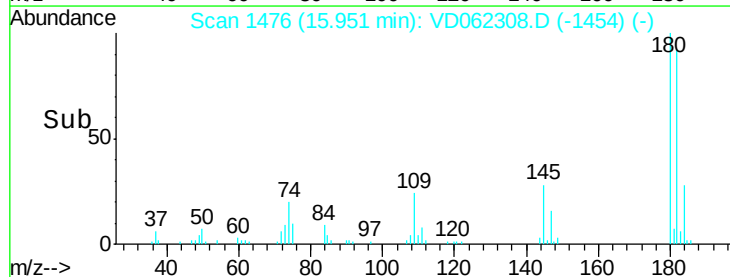
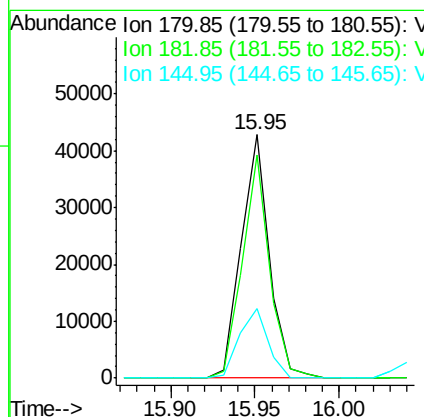
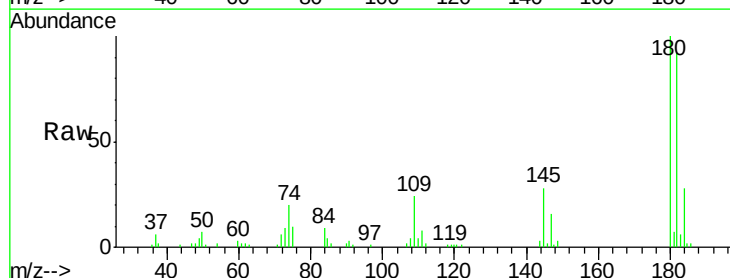
RT: 15.95 min Scan# 1476

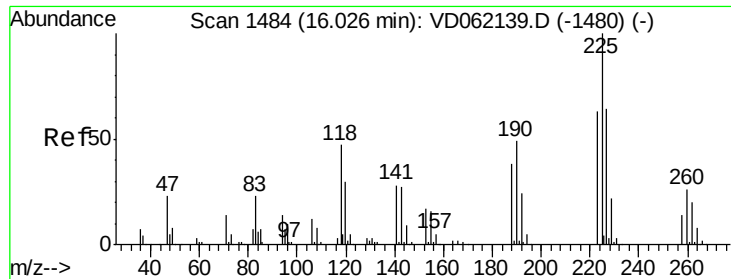
Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Tgt Ion:	180	Resp:	49318
Ion Ratio	Lower	Upper	
180	100		
182	91.8	49.3	147.8
145	28.4	16.2	48.6





#94

Hexachlorobutadiene

Concen: 29.505 ug/l

RT: 16.04 min Scan# 1485

Delta R.T. 0.01 min

Lab File: VD062308.D

Acq: 13 May 2019 16:49

Instrument :

MSVOA_D

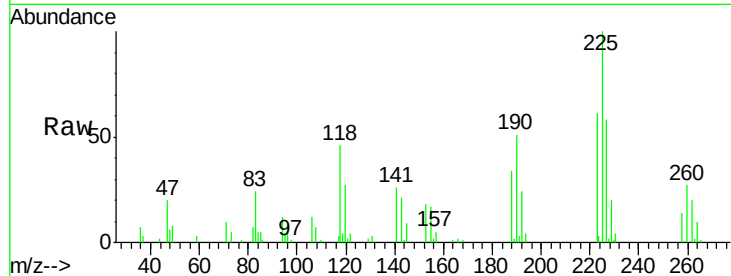
ClientSampleId :

P026-SS012-0002-01MSD

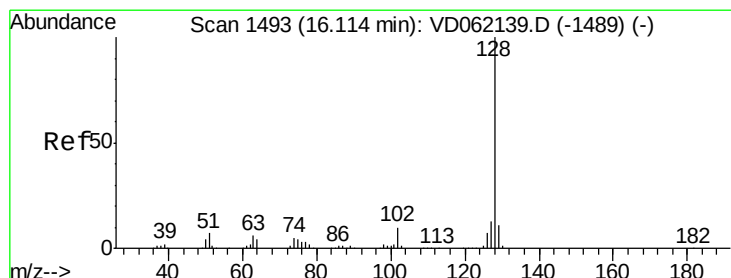
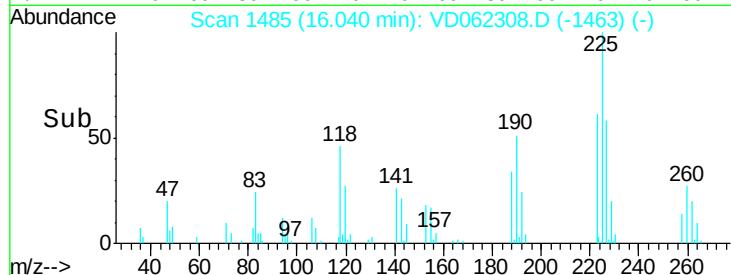
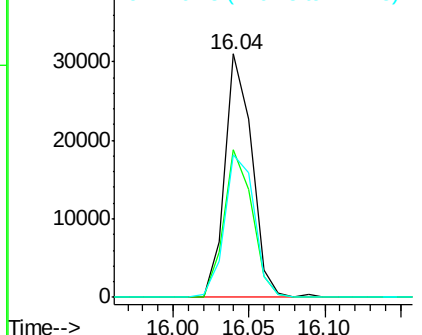
Tot Ion:	225	Resp:	38620
Ion Ratio		Lower	Upper
225	100		
223	60.8	30.6	92.0
227	58.4	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:50:40 AM



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



#95

Naphthalene

Concen: 46.004 ug/l

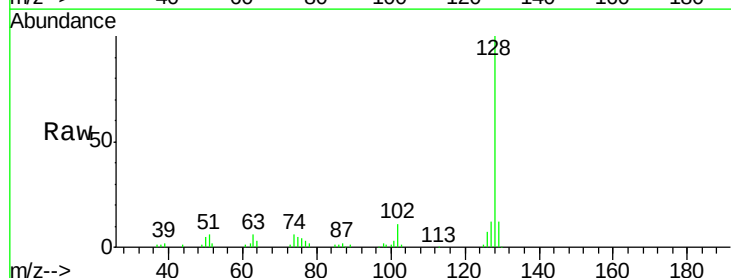
RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

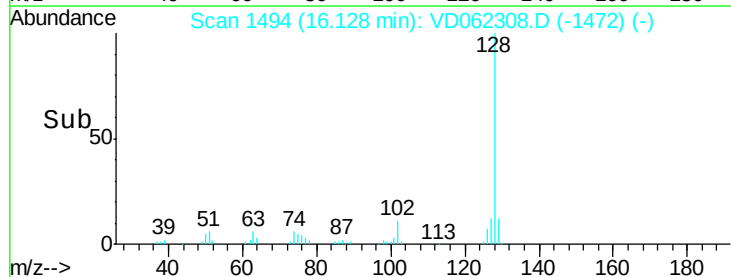
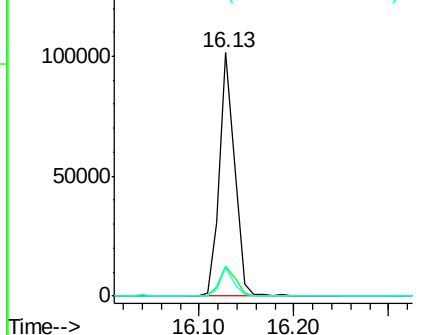
Lab File: VD062308.D

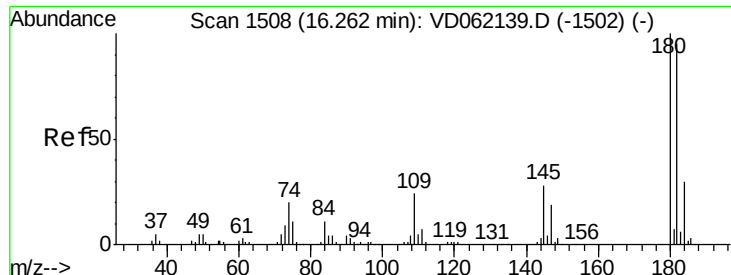
Acq: 13 May 2019 16:49

Tgt Ion:	128	Resp:	113030
Ion Ratio		Lower	Upper
128	100		
127	12.2	9.8	14.8
129	11.5	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





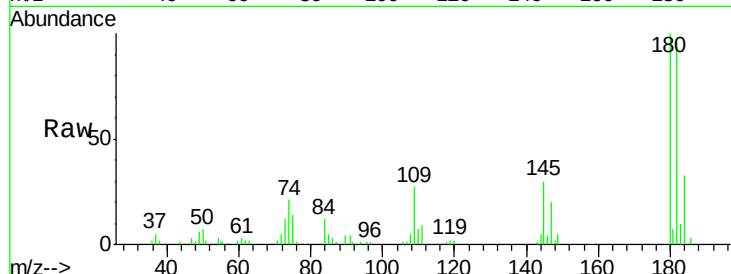
#96
 1,2,3-Trichlorobenzene
 Concen: 37.315 ug/l
 RT: 16.28 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VD062308.D
 Acq: 13 May 2019 16:49

Instrument :
 MSVOA_D
 ClientSampleId :
 P026-SS012-0002-01MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.0	141.0
145	30.0	17.0	51.0

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 9:50:40 AM



Abundance

Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

