

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\
 Data File : VD062459.D
 Acq On : 20 May 2019 16:37
 Operator : FY/SY
 Sample : VSTDICC100
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 5/22/2019 4:49:06 AM

Quant Time: May 21 03:36:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 20 16:04:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	730893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.24	114	1032523	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	849408	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	415196	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.48	65	775427	114.16	ug/l	0.02
Spiked Amount			Recovery	=	228.32%	
35) Dibromofluoromethane	6.95	113	930626	108.63	ug/l	0.00
Spiked Amount			Recovery	=	217.26%	
50) Toluene-d8	10.43	98	2038484	98.69	ug/l	0.00
Spiked Amount			Recovery	=	197.38%	
62) 4-Bromofluorobenzene	13.56	95	865793	104.38	ug/l	0.00
Spiked Amount			Recovery	=	208.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	660132	94.435	ug/l	98
3) Chloromethane	1.75	50	426062	84.351	ug/l	96
4) Vinyl Chloride	1.85	62	481710	97.039	ug/l	98
5) Bromomethane	2.16	94	208173	178.971	ug/l	97
6) Chloroethane	2.26	64	237903	114.212	ug/l	99
7) Trichlorofluoromethane	2.53	101	1080398	111.948	ug/l	97
8) Diethyl Ether	2.88	74	151398	81.341	ug/l	78
9) 1,1,2-Trichlorotrifluoroet	3.16	101	707229	96.873	ug/l	97
10) Methyl Iodide	3.32	142	1115209	101.071	ug/l #	87
11) Tert butyl alcohol	4.11	59	167788	483.945	ug/l #	95
12) 1,1-Dichloroethene	3.14	96	533889	95.800	ug/l	91
13) Acrolein	3.05	56	126291	352.175	ug/l	88
14) Allyl chloride	3.63	41	765339	94.451	ug/l #	77
15) Acrylonitrile	4.22	53	379557	416.497	ug/l #	82
16) Acetone	3.24	43	633336	444.629	ug/l #	82
17) Carbon Disulfide	3.39	76	1680272	104.810	ug/l	99
18) Methyl Acetate	3.66	43	228129	81.655	ug/l	94
19) Methyl tert-butyl Ether	4.26	73	1168724	97.840	ug/l	92
20) Methylene Chloride	3.83	84	553459	93.058	ug/l	90
21) trans-1,2-Dichloroethene	4.23	96	602739	97.194	ug/l	88
22) Diisopropyl ether	5.15	45	1675737	97.183	ug/l	93
23) Vinyl Acetate	5.09	43	5022950	552.117	ug/l	97
24) 1,1-Dichloroethane	5.01	63	1129122	108.547	ug/l	99
25) 2-Butanone	6.10	43	703041	452.497	ug/l	93
26) 2,2-Dichloropropane	6.04	77	1143472	110.356	ug/l	94
27) cis-1,2-Dichloroethene	6.06	96	703958	101.414	ug/l	96
28) Bromochloromethane	6.47	49	386228	94.374	ug/l	94
29) Tetrahydrofuran	6.49	42	325049	454.056	ug/l	98
30) Chloroform	6.68	83	1350423	107.720	ug/l	98
31) Cyclohexane	6.98	56	757712	106.323	ug/l	99
32) 1,1,1-Trichloroethane	6.89	97	1375275	116.065	ug/l	98
36) 1,1-Dichloropropene	7.17	75	901946	106.541	ug/l	95
37) Ethyl Acetate	6.21	43	347976	96.924	ug/l #	93
38) Carbon Tetrachloride	7.14	117	1386362m	118.318	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.89	83	803960	99.117	ug/l	95
40) Benzene	7.48	78	1871617	97.906	ug/l	99
41) Methacrylonitrile	6.47	41	429917	97.989	ug/l #	86
42) 1,2-Dichloroethane	7.60	62	953869	117.771	ug/l	94
43) Isopropyl Acetate	9.26	43	497017	97.613	ug/l #	92
44) Trichloroethene	8.56	130	772667	106.070	ug/l	89
45) 1,2-Dichloropropane	8.96	63	470761	99.558	ug/l	99
46) Dibromomethane	9.08	93	407794	106.054	ug/l	94
47) Bromodichloromethane	9.40	83	1075041	114.301	ug/l	96
48) Methyl methacrylate	9.14	41	323851	103.260	ug/l	85
49) 1,4-Dioxane	9.10	88	61154	1807.209	ug/l #	88
51) 4-Methyl-2-Pentanone	10.32	43	1594975	487.315	ug/l	92
52) Toluene	10.52	92	1272475	102.305	ug/l	97
53) t-1,3-Dichloropropene	10.93	75	913520	112.380	ug/l	99
54) cis-1,3-Dichloropropene	10.06	75	946476	106.730	ug/l #	87
55) 1,1,2-Trichloroethane	11.21	97	421443	95.764	ug/l	96
56) Ethyl methacrylate	11.06	69	460668	100.733	ug/l #	88
57) 1,3-Dichloropropane	11.43	76	688034	103.485	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.88	63	1079020	431.951	ug/l	98
59) 2-Hexanone	11.55	43	1136643	471.184	ug/l	91
60) Dibromochloromethane	11.70	129	836731	110.015	ug/l	99
61) 1,2-Dibromoethane	11.82	107	523652	97.871	ug/l	97
64) Tetrachloroethene	11.28	164	696178	104.814	ug/l	97
65) Chlorobenzene	12.41	112	1609056	101.707	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.53	131	705101	102.407	ug/l	95
67) Ethyl Benzene	12.54	91	2634407	99.465	ug/l	96
68) m/p-Xylenes	12.69	106	1997819	207.325	ug/l	96
69) o-Xylene	13.06	106	954614	106.558	ug/l	86
70) Styrene	13.08	104	1587092	104.579	ug/l	93
71) Bromoform	13.25	173	498651	104.095	ug/l #	98
73) Isopropylbenzene	13.41	105	2612231	104.959	ug/l	98
74) N-amyl acetate	13.28	43	678371	103.962	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.71	83	469940	99.740	ug/l	99
76) 1,2,3-Trichloropropane	13.74	75	508190	102.992	ug/l	99
77) Bromobenzene	13.68	156	736414	105.699	ug/l	95
78) n-propylbenzene	13.79	91	3297843	111.081	ug/l	100
79) 2-Chlorotoluene	13.85	91	1891173	111.224	ug/l	90
80) 1,3,5-Trimethylbenzene	13.95	105	2375589	113.351	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.48	75	143544	103.049	ug/l #	71
82) 4-Chlorotoluene	13.96	91	2151126	107.510	ug/l	86
83) tert-Butylbenzene	14.20	119	2674072	113.518	ug/l	98
84) 1,2,4-Trimethylbenzene	14.25	105	2417180	114.933	ug/l	95
85) sec-Butylbenzene	14.38	105	2755626	106.694	ug/l	100
86) p-Isopropyltoluene	14.50	119	2365630	102.518	ug/l	92
87) 1,3-Dichlorobenzene	14.47	146	1292218	101.532	ug/l	99
88) 1,4-Dichlorobenzene	14.55	146	1236558	98.882	ug/l	99
89) n-Butylbenzene	14.80	91	2308241	111.446	ug/l	94
90) Hexachloroethane	15.02	117	735890	117.268	ug/l	76
91) 1,2-Dichlorobenzene	14.82	146	1133516	108.143	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.39	75	96074	124.219	ug/l	94

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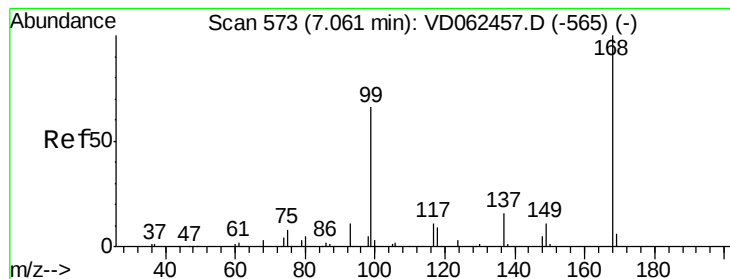
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	930602	121.979	ug/l	97
94) Hexachlorobutadiene	16.04	225	691749	121.908	ug/l	98
95) Naphthalene	16.13	128	1285505	120.691	ug/l	100
96) 1,2,3-Trichlorobenzene	16.28	180	744227	155.151	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 730893

Ion Ratio Lower Upper

168 100

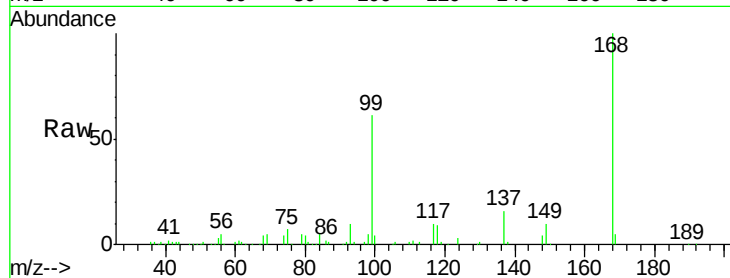
99 60.5 46.5 69.7

Manual Integrations

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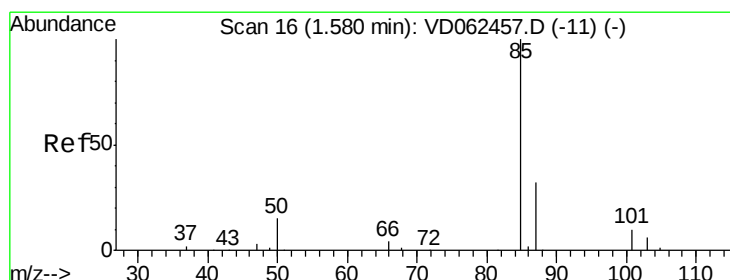
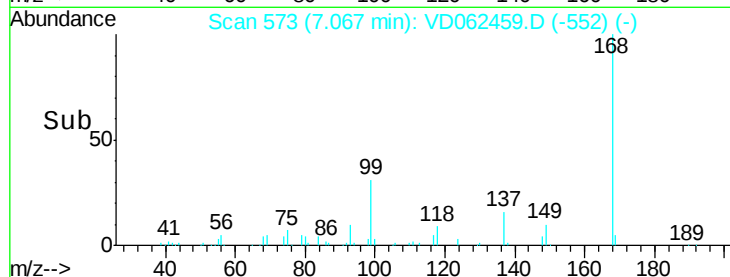
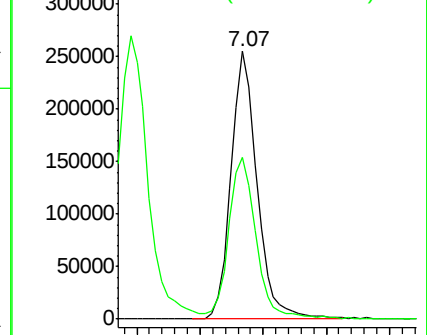
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 94.435 ug/l

RT: 1.58 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD062459.D

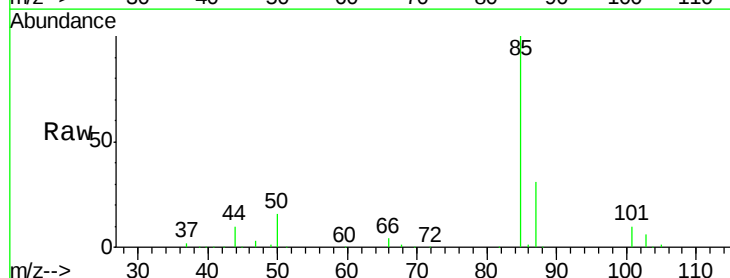
Acq: 20 May 2019 16:37

Tgt Ion: 85 Resp: 660132

Ion Ratio Lower Upper

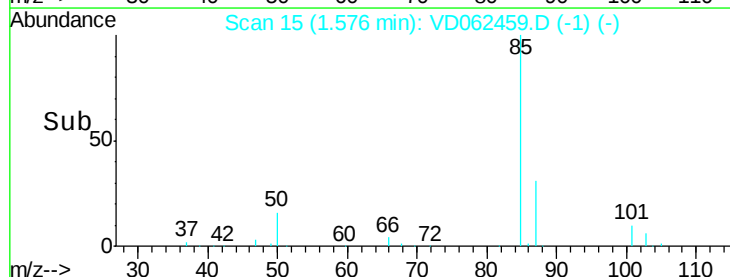
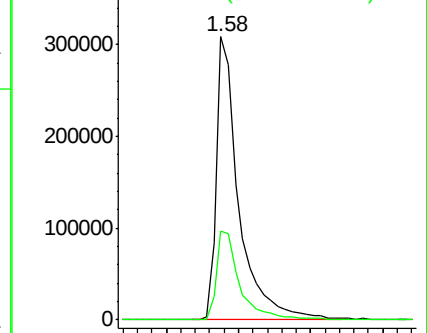
85 100

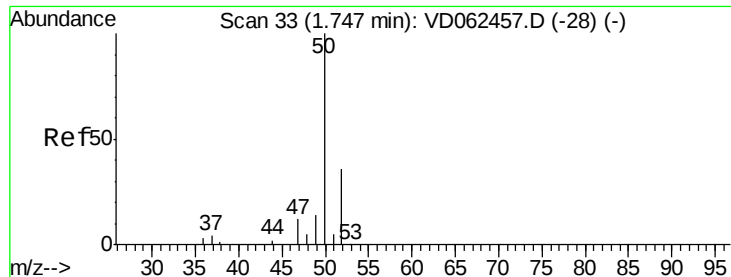
87 31.2 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 84.351 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 426062

Ion Ratio Lower Upper

50 100

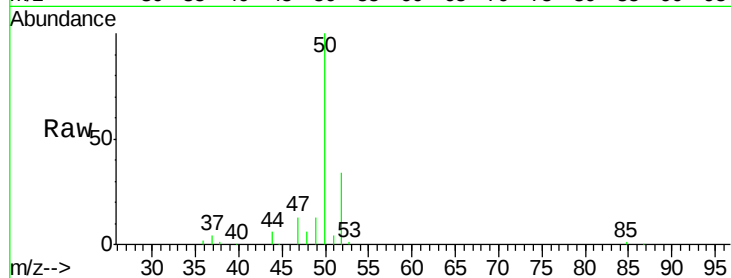
52 33.7 25.2 37.8

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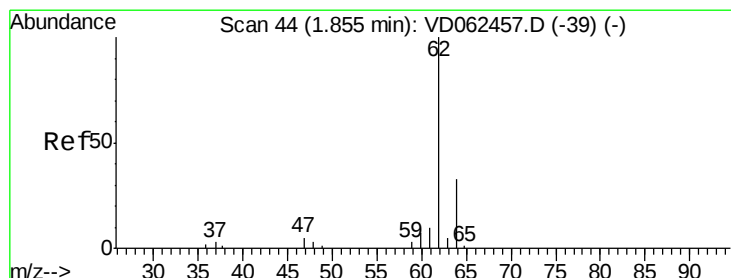
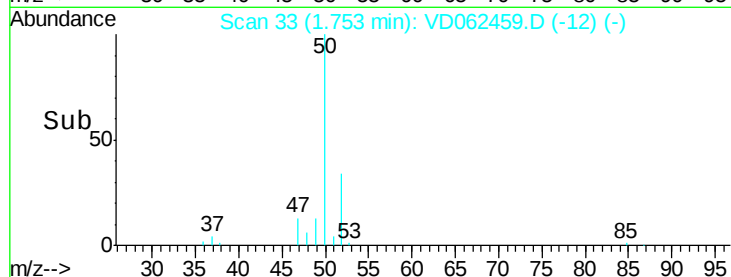
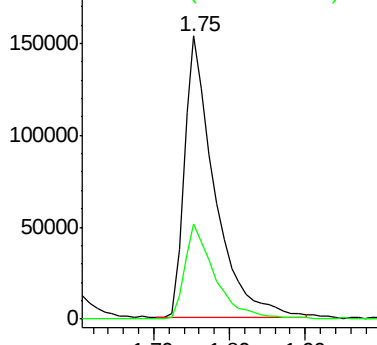
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 97.039 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.00 min

Lab File: VD062459.D

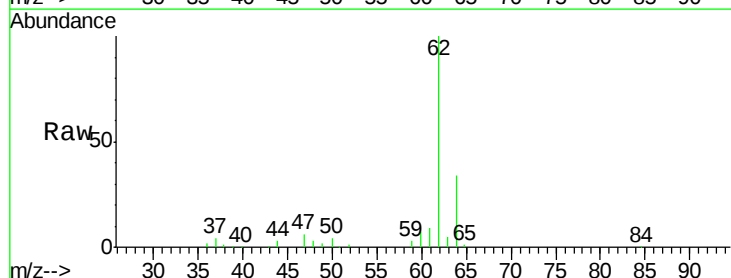
Acq: 20 May 2019 16:37

Tgt Ion: 62 Resp: 481710

Ion Ratio Lower Upper

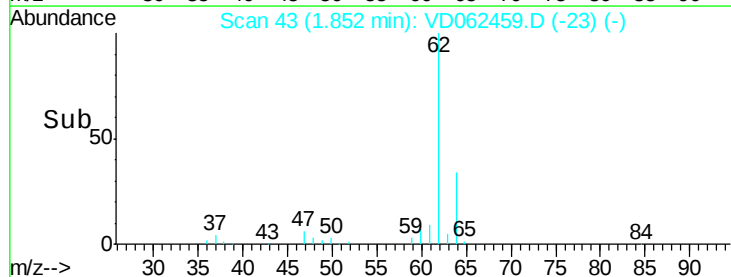
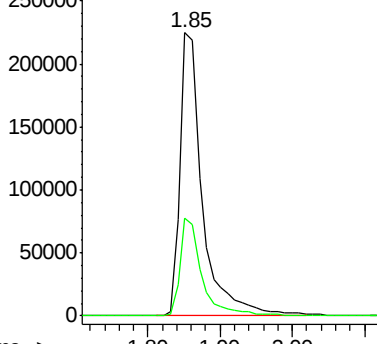
62 100

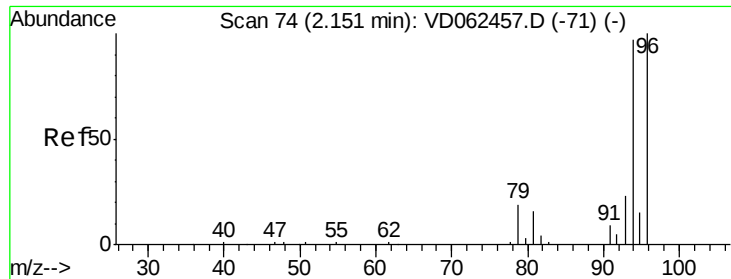
64 34.4 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 178.971 ug/l

RT: 2.16 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

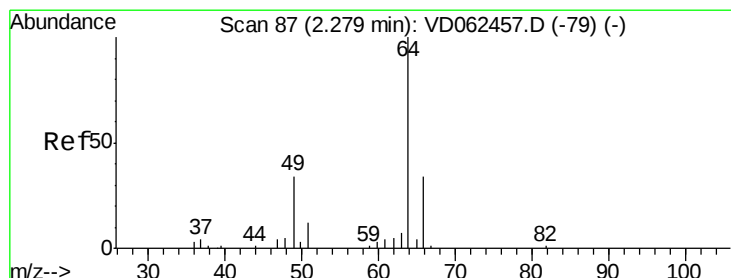
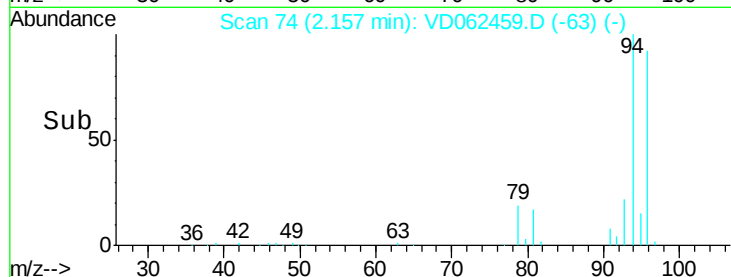
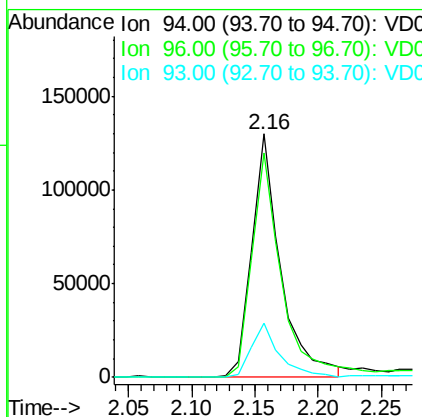
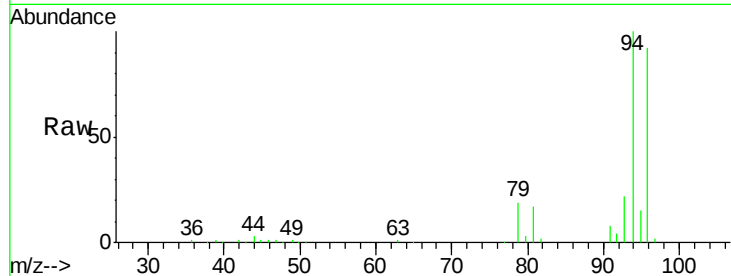
ClientSampleId :

VSTDIC100

Tot Ion:	94	Resp:	208173
Ion Ratio	Lower	Upper	
94	100		
96	92.0	76.6	115.0
93	22.4	18.5	27.7

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#6

Chloroethane

Concen: 114.212 ug/l

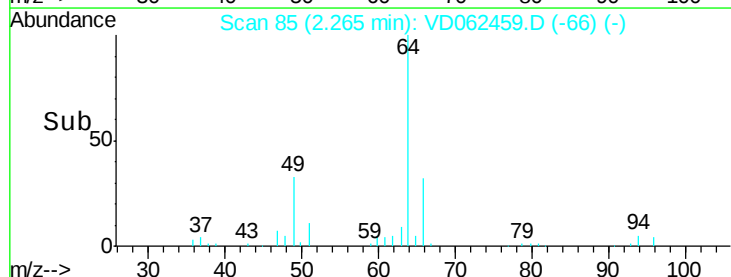
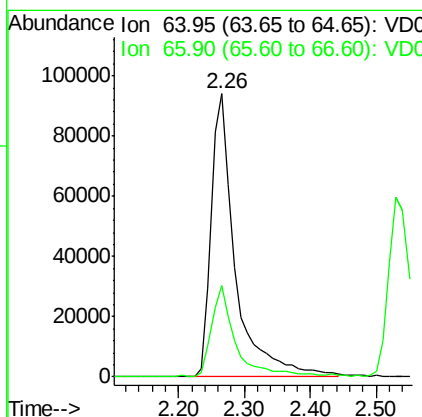
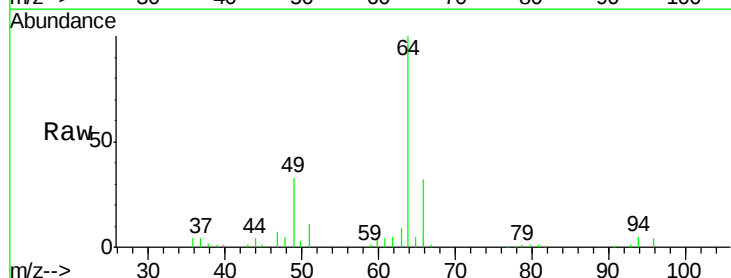
RT: 2.26 min Scan# 85

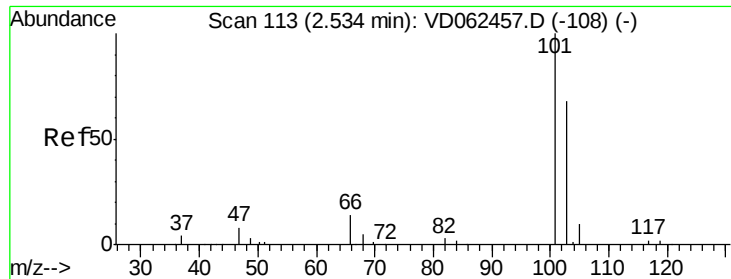
Delta R.T. -0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion:	64	Resp:	237903
Ion Ratio	Lower	Upper	
64	100		
66	32.3	25.6	38.4





#7

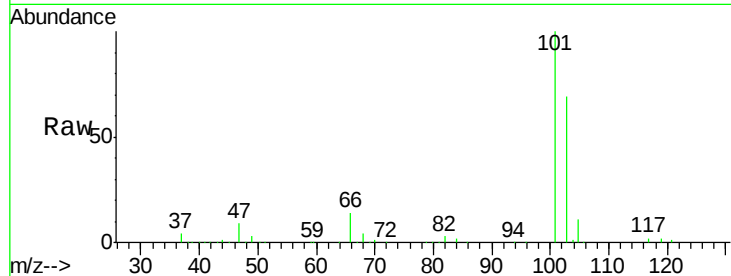
Trichlorofluoromethane
Concen: 111.948 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.00 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

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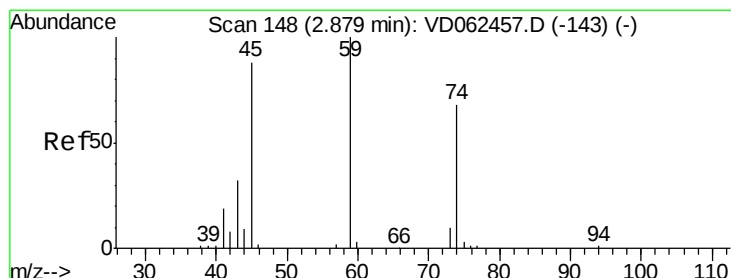
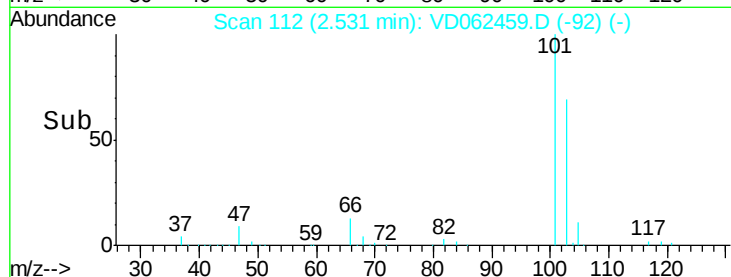
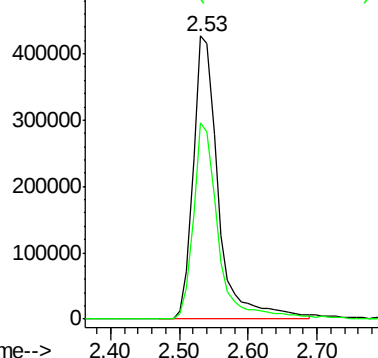
Tot Ion:101 Resp: 1080398
Ion Ratio Lower Upper
101 100
103 69.4 53.6 80.4

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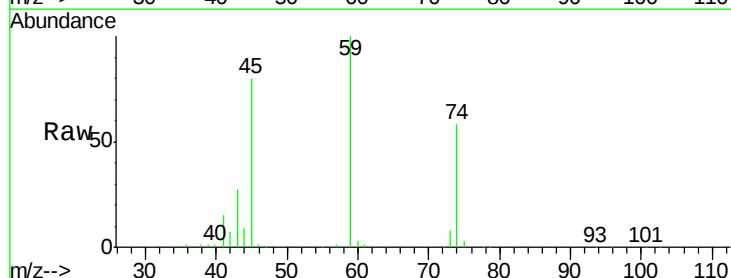
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



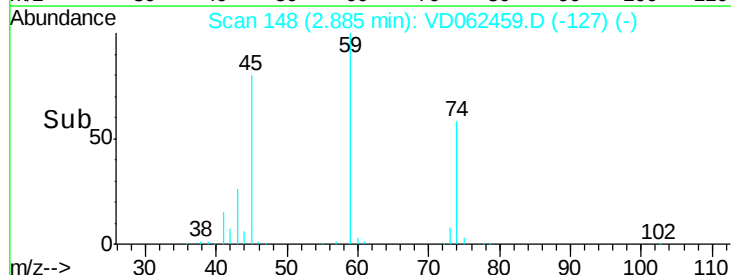
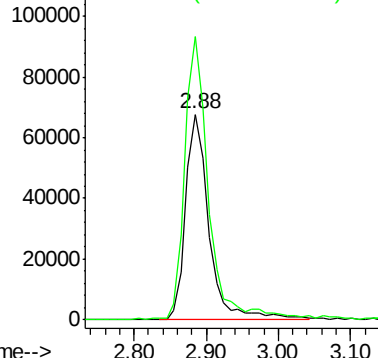
#8

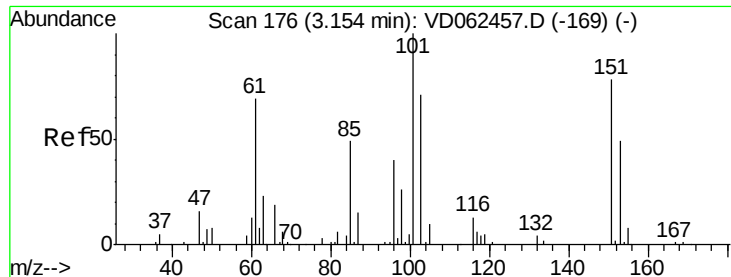
Diethyl Ether
Concen: 81.341 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion: 74 Resp: 151398
Ion Ratio Lower Upper
74 100
45 137.6 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 96.873 ug/l

RT: 3.16 min Scan# 176

Delta R.T. 0.01 min

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MSVOA_D

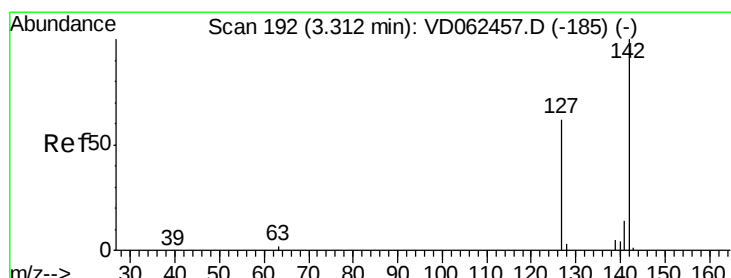
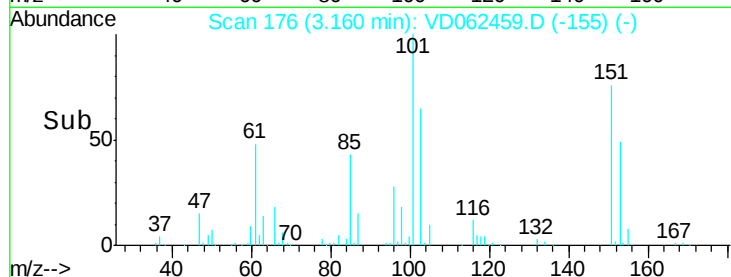
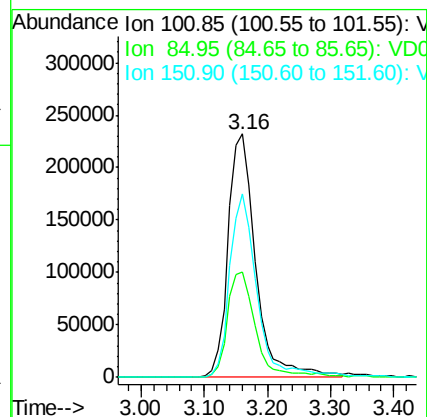
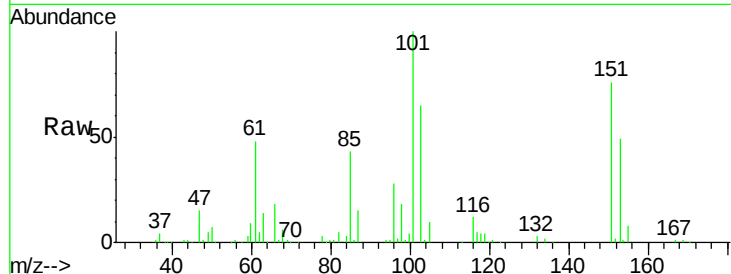
ClientSampleId :

VSTDIC100

Tot Ion:	101	Resp:	707229
Ion Ratio	Lower	Upper	
101	100		
85	43.3	32.4	48.6
151	75.6	59.4	89.0

Manual Integrations
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#10

Methyl Iodide

Concen: 101.071 ug/l

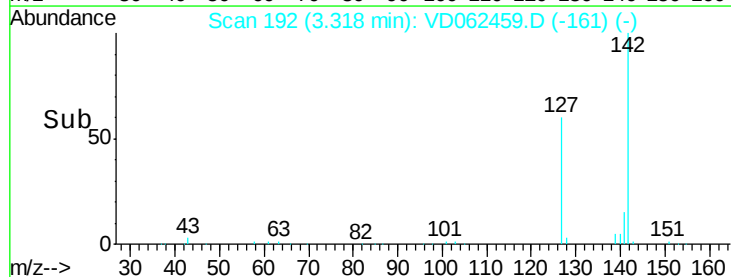
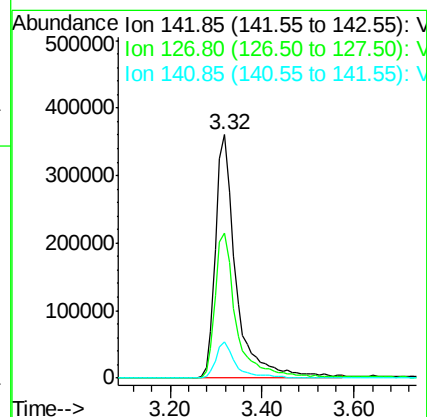
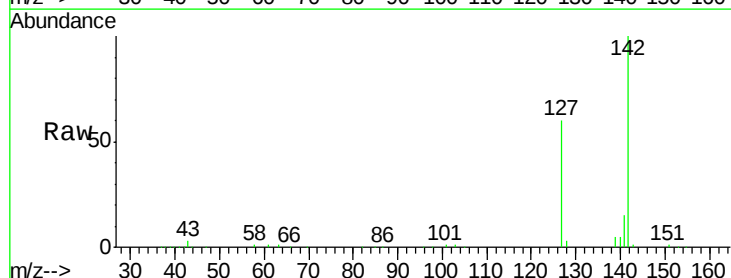
RT: 3.32 min Scan# 192

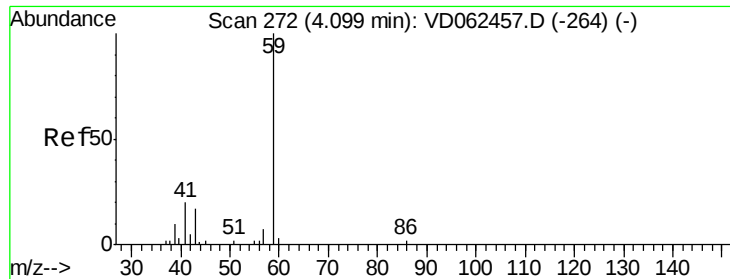
Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion:	142	Resp:	1115209
Ion Ratio	Lower	Upper	
142	100		
127	59.8	38.8	58.2#
141	14.7	11.4	17.0





#11

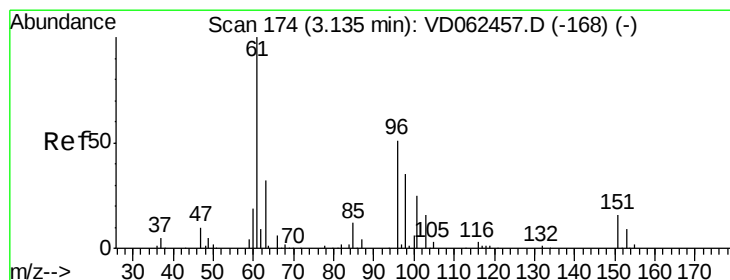
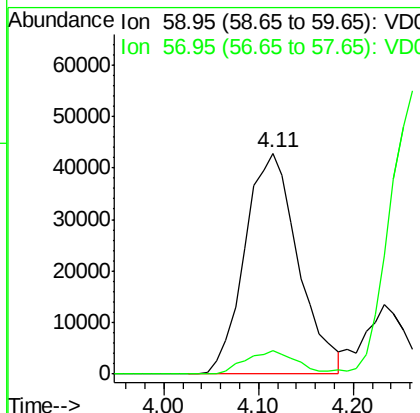
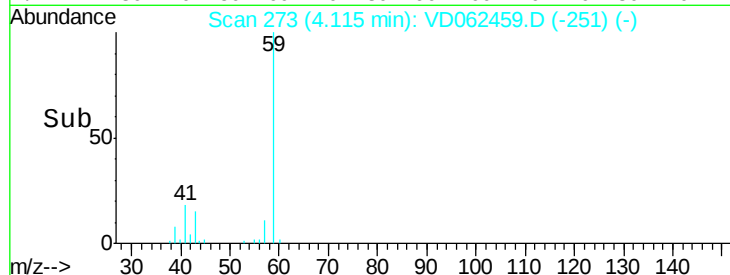
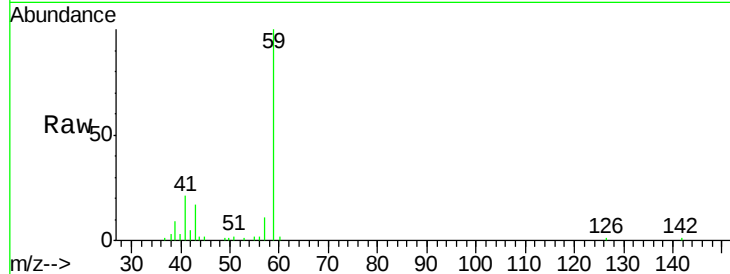
Tert butyl alcohol
Concen: 483.945 ug/l
RT: 4.11 min Scan# 273
Delta R.T. 0.02 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion: 59 Resp: 167788
Ion Ratio Lower Upper
59 100
57 10.5 6.9 10.3#

Manual Integrations
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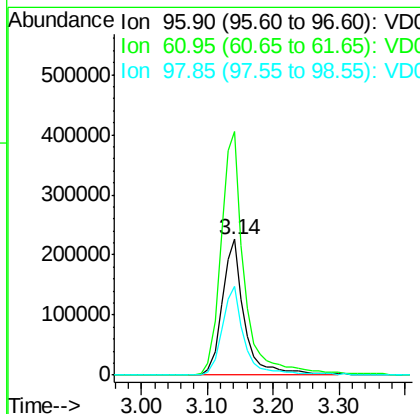
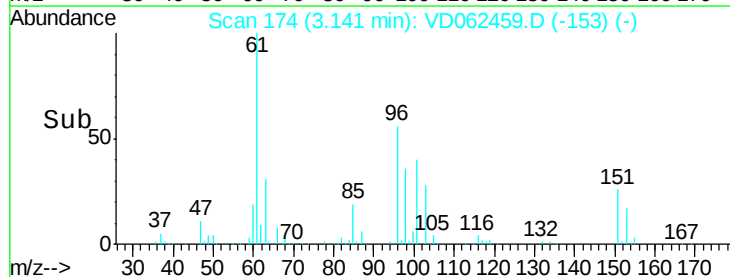
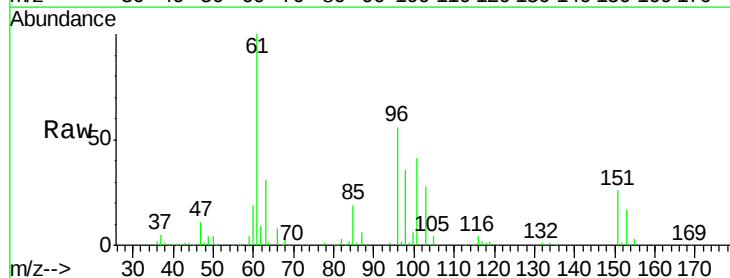
MMDadoda
5/22/2019 4:49:06 AM

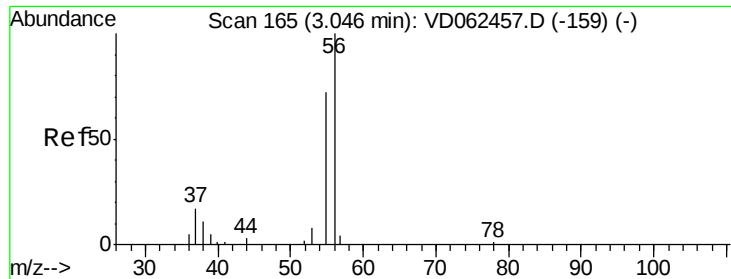


#12

1,1-Dichloroethene
Concen: 95.800 ug/l
RT: 3.14 min Scan# 174
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion: 96 Resp: 533889
Ion Ratio Lower Upper
96 100
61 179.0 129.8 194.8
98 64.8 51.2 76.8





#13

Acrolein

Concen: 352.175 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 126291

Ion Ratio Lower Upper

56 100

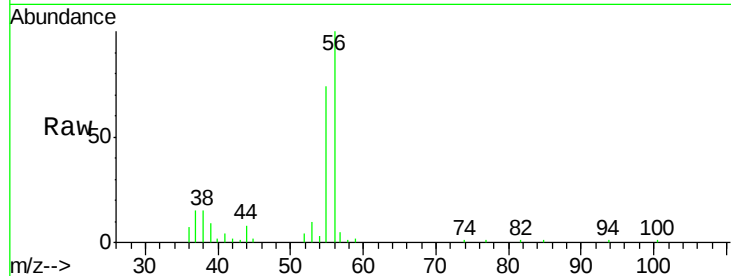
55 73.6 51.4 77.2

Manual Integrations

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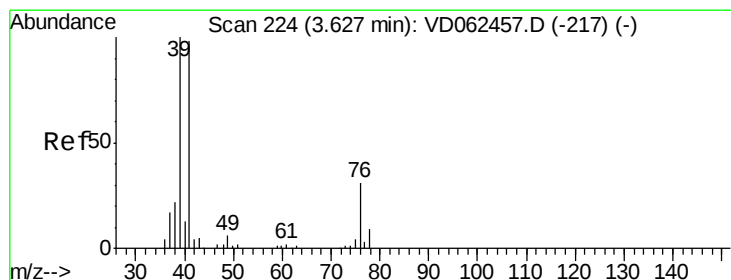
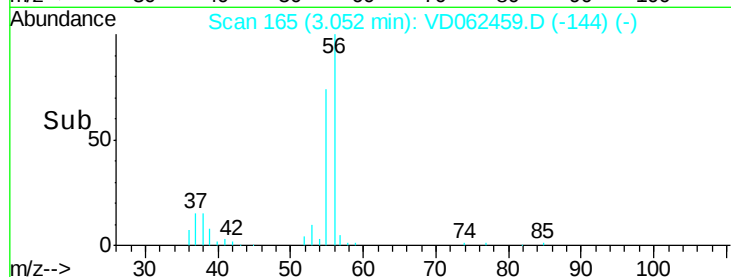
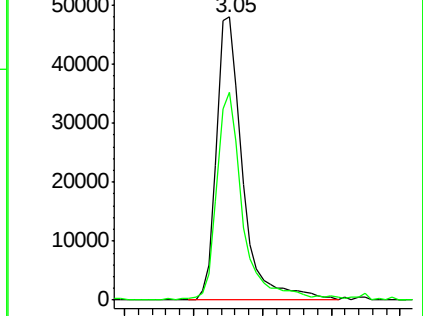
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Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 94.451 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

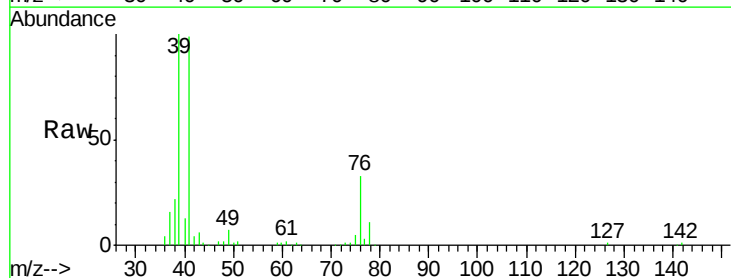
Tgt Ion: 41 Resp: 765339

Ion Ratio Lower Upper

41 100

39 101.0 60.5 90.7#

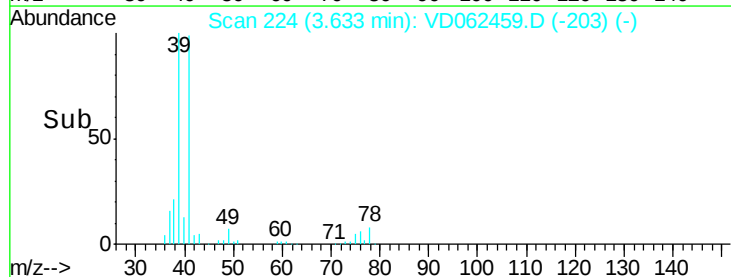
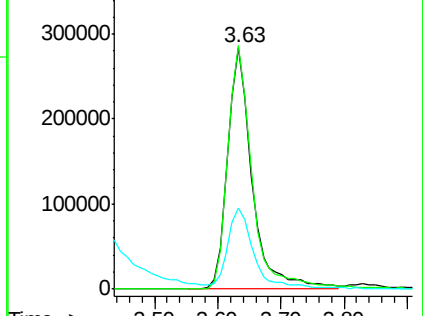
76 33.8 31.8 47.8

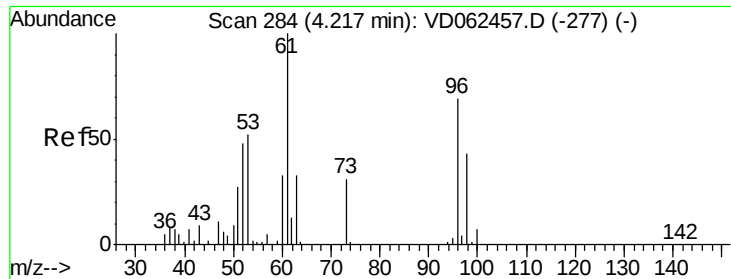


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 416.497 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 53 Resp: 379557

Ion Ratio Lower Upper

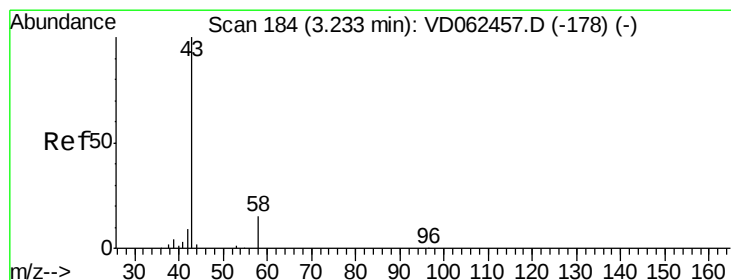
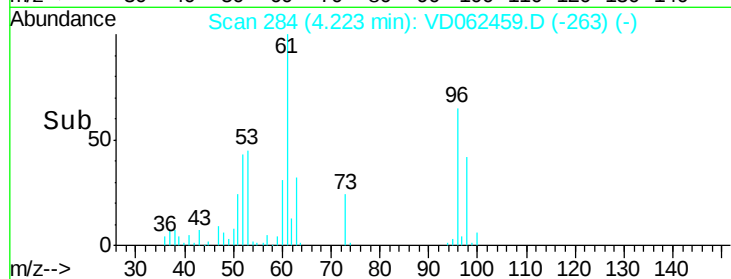
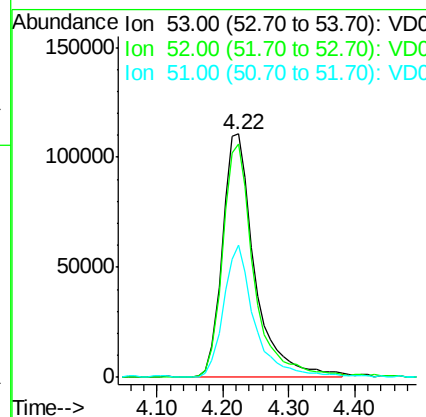
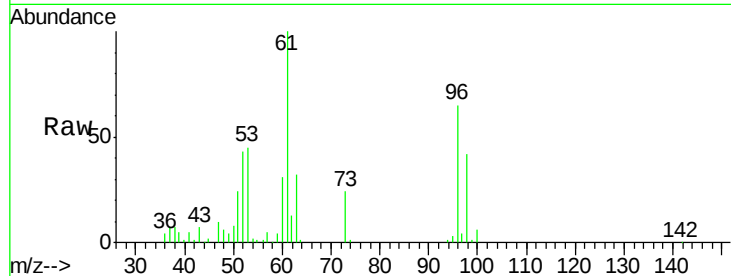
53 100

52 95.7 65.0 97.4

51 54.1 32.6 48.8#

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#16

Acetone

Concen: 444.629 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD062459.D

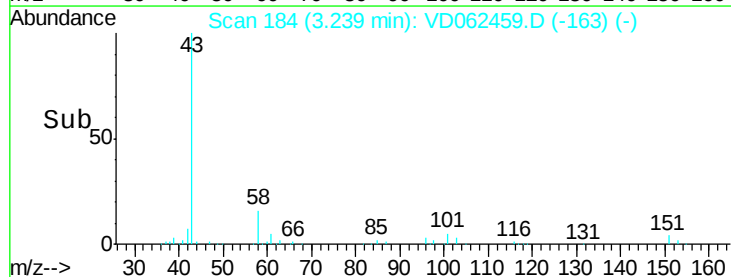
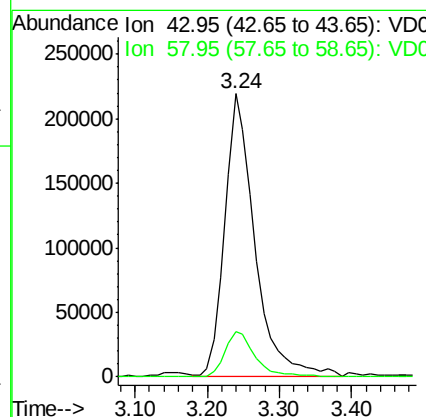
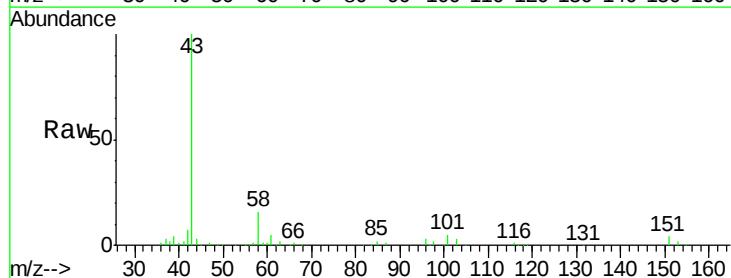
Acq: 20 May 2019 16:37

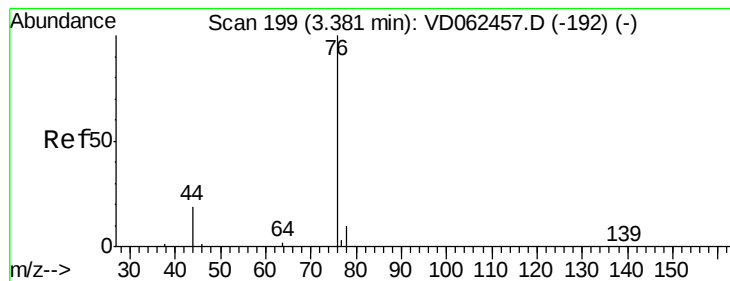
Tgt Ion: 43 Resp: 633336

Ion Ratio Lower Upper

43 100

58 16.1 19.9 29.9#





#17

Carbon Disulfide

Concen: 104.810 ug/l

RT: 3.39 min Scan# 199

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tot Ion: 76 Resp: 1680272

Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8

Instrument :

MSVOA_D

ClientSampleId :

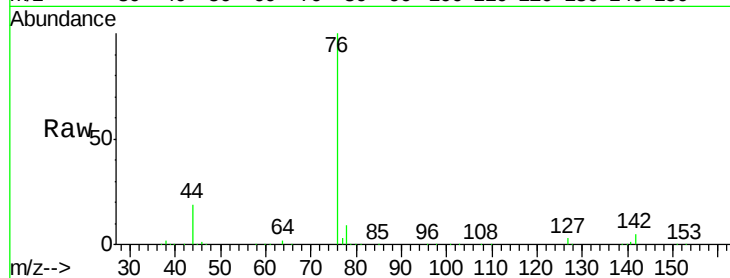
VSTDIC100

Manual Integrations

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Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.39

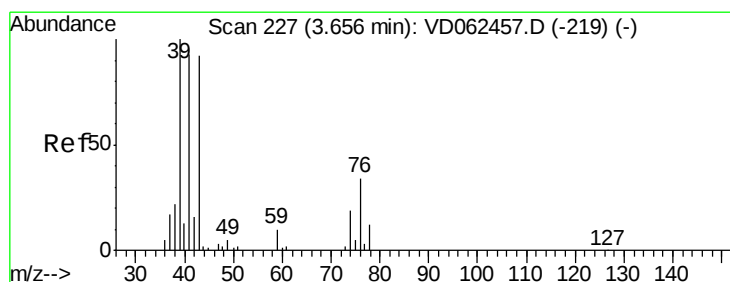
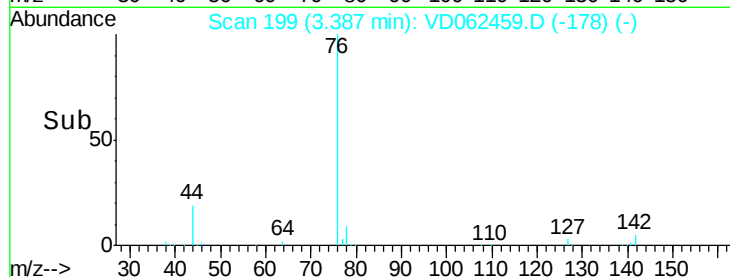
600000

400000

200000

0

Time-->



#18

Methyl Acetate

Concen: 81.655 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD062459.D

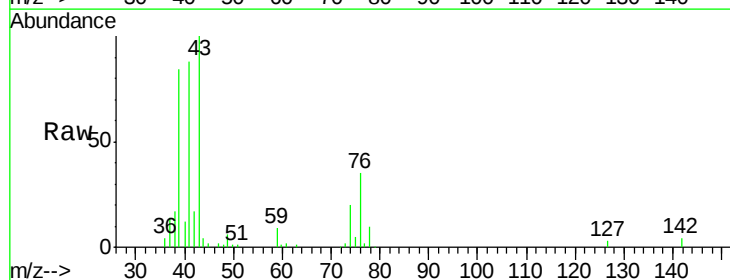
Acq: 20 May 2019 16:37

Tgt Ion: 43 Resp: 228129

Ion Ratio Lower Upper

43 100

74 19.7 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

80000

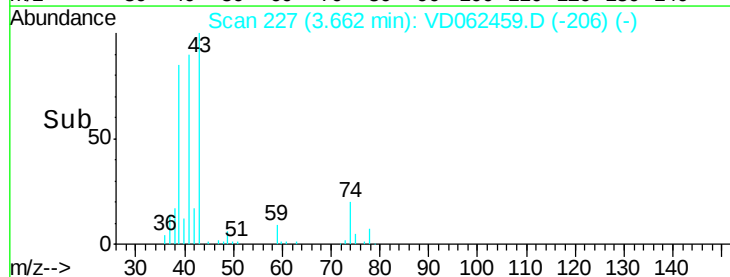
60000

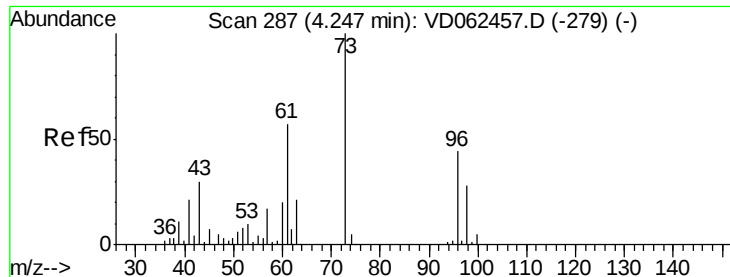
40000

20000

0

Time-->





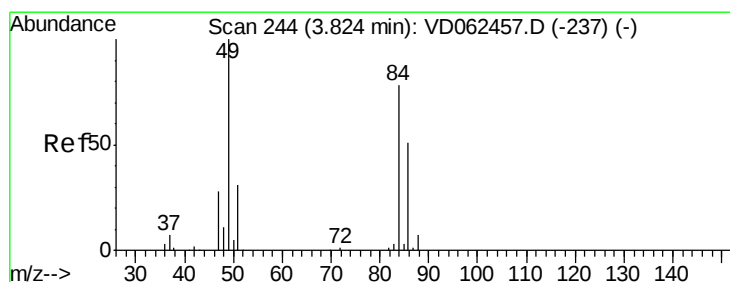
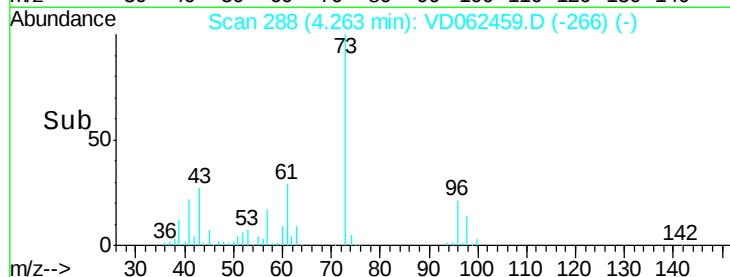
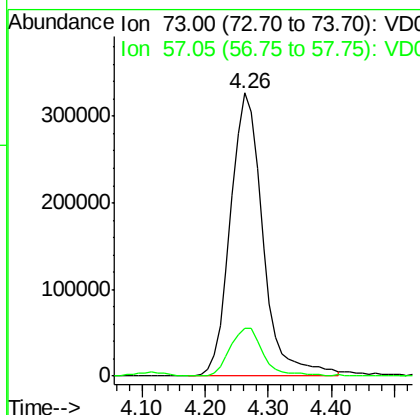
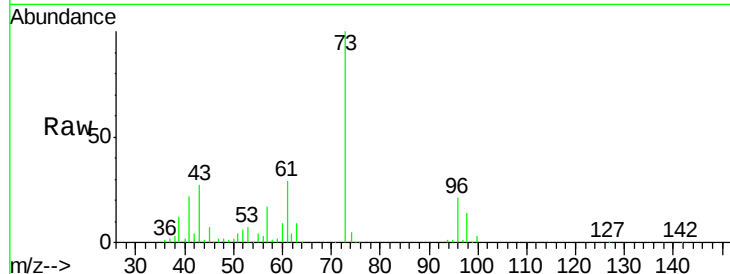
#19
Methvl tert-butvl Ether
Concen: 97.840 ug/l
RT: 4.26 min Scan# 288
Delta R.T. 0.02 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 1168724
Ion Ratio Lower Upper
73 100
57 16.8 16.3 24.5

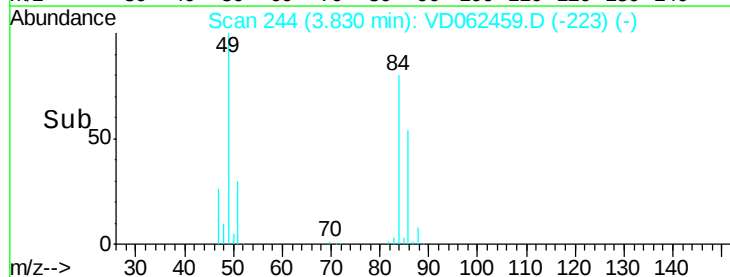
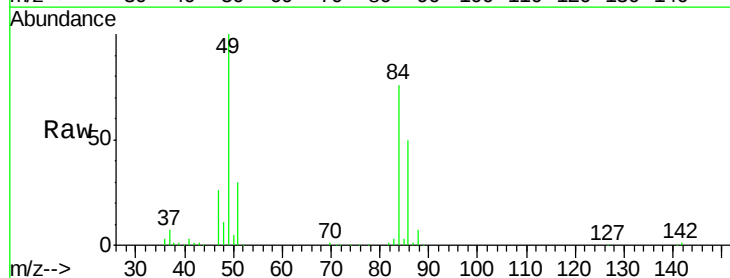
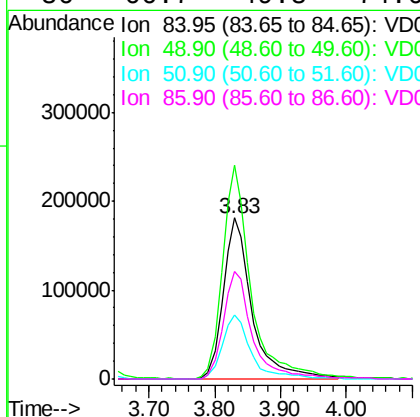
Manual Integrations
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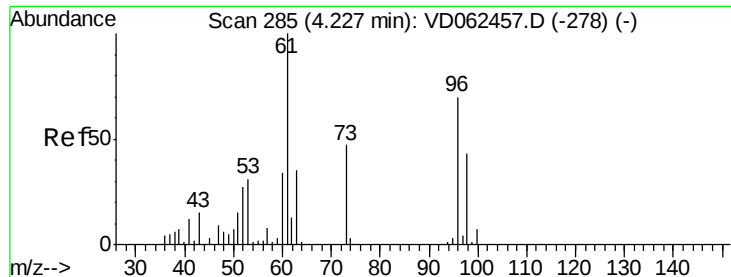
MMDadoda
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#20
Methylene Chloride
Concen: 93.058 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion: 84 Resp: 553459
Ion Ratio Lower Upper
84 100
49 132.4 94.0 141.0
51 40.0 29.0 43.4
86 66.7 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 97.194 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 602739

Ion Ratio Lower Upper

96 100

61 152.1 104.4 156.6

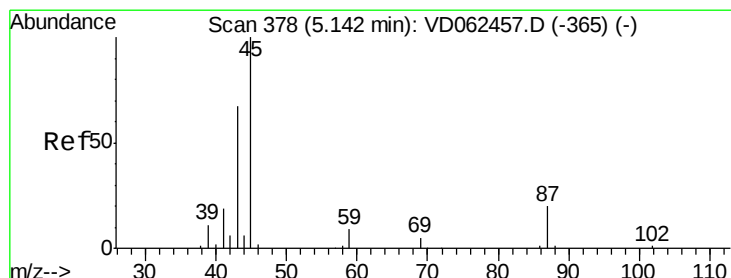
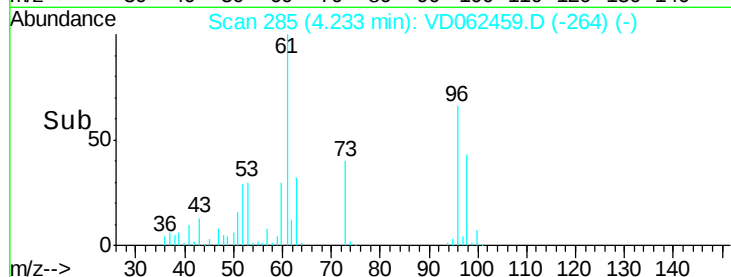
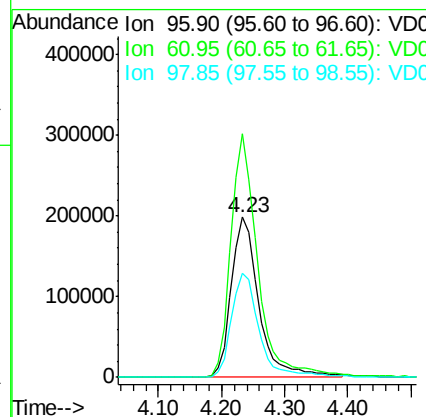
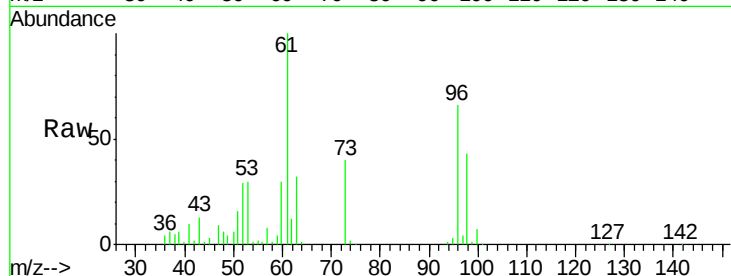
98 64.8 51.8 77.8

Manual Integrations

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#22

Diisopropyl ether

Concen: 97.183 ug/l

RT: 5.15 min Scan# 378

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion: 45 Resp: 1675737

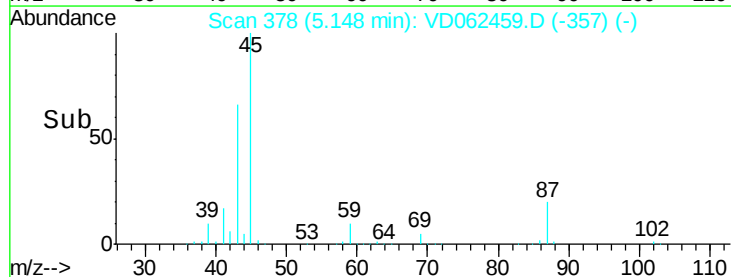
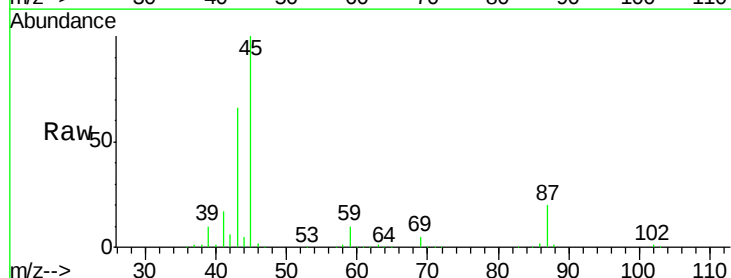
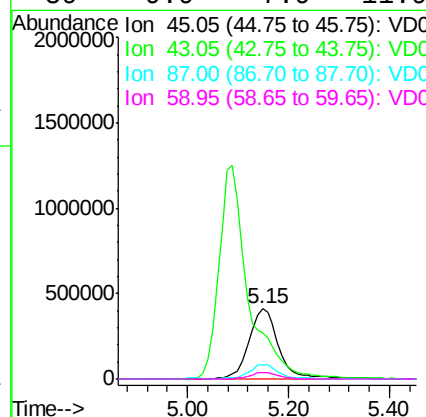
Ion Ratio Lower Upper

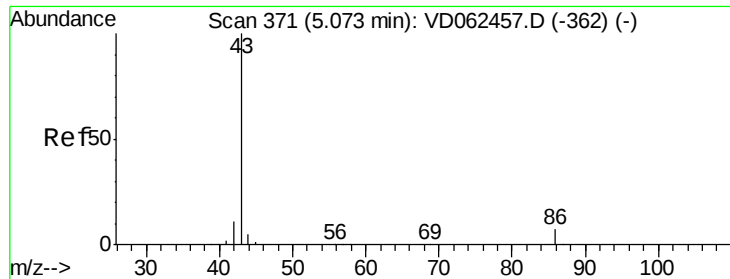
45 100

43 65.6 46.2 69.2

87 20.3 15.9 23.9

59 9.9 7.9 11.9





#23

Vinyl Acetate

Concen: 552.117 ug/l

RT: 5.09 min Scan# 372

Delta R.T. 0.02 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 5022950

Ion Ratio Lower Upper

43 100

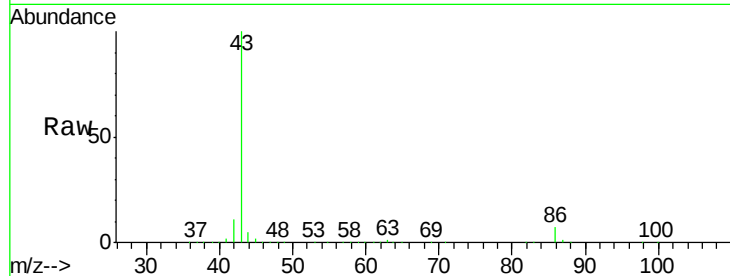
86 7.1 6.4 9.6

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

1500000

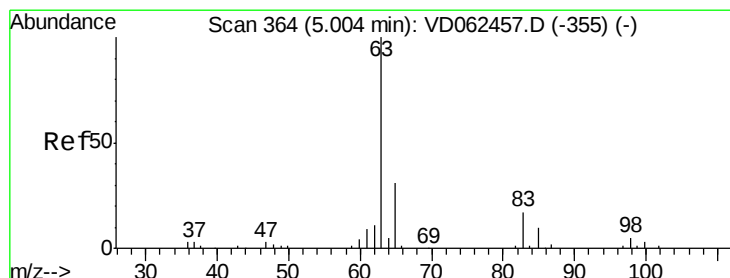
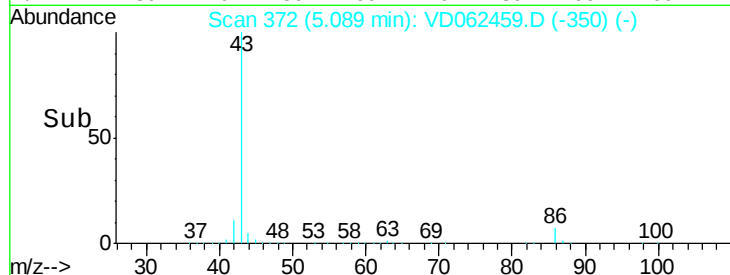
1000000

500000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#24

1,1-Dichloroethane

Concen: 108.547 ug/l

RT: 5.01 min Scan# 364

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

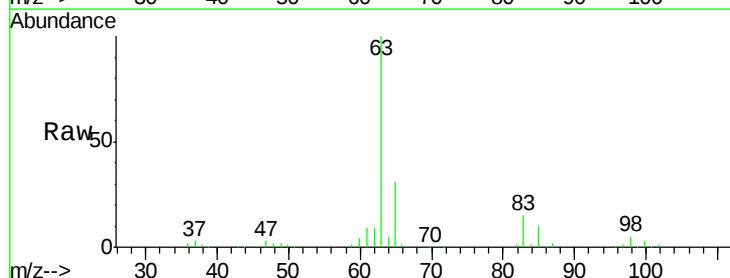
Tgt Ion: 63 Resp: 1129122

Ion Ratio Lower Upper

63 100

98 5.0 2.8 8.4

100 3.3 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

400000

300000

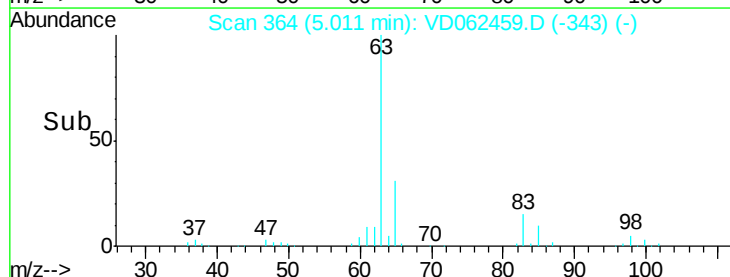
200000

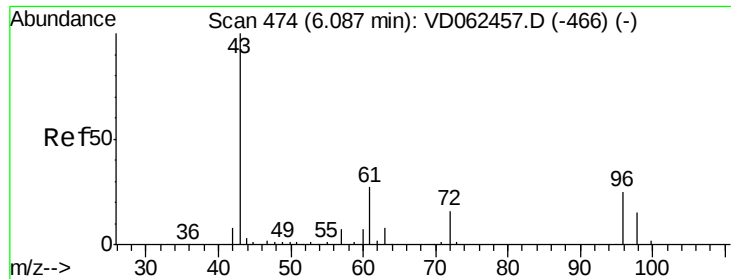
100000

0

Time-->

4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 452.497 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.02 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 703041

Ion Ratio Lower Upper

43 100

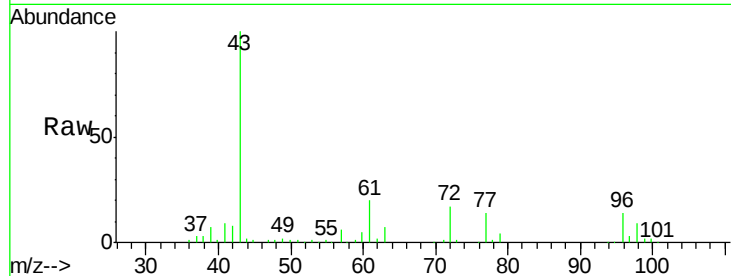
72 17.2 16.2 24.4

Manual Integrations

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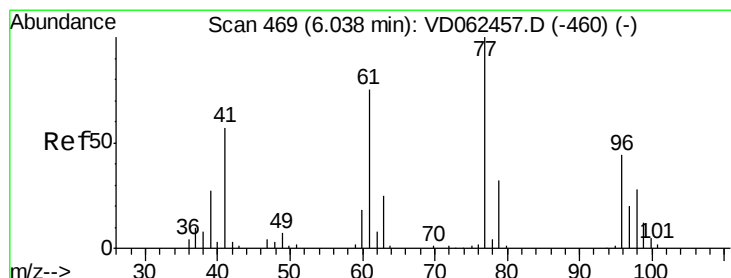
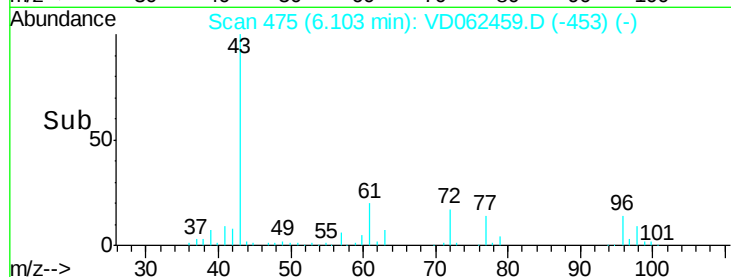
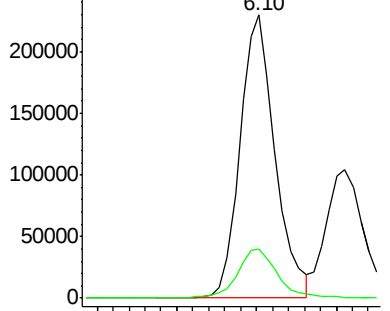
MMDadoda

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 110.356 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.01 min

Lab File: VD062459.D

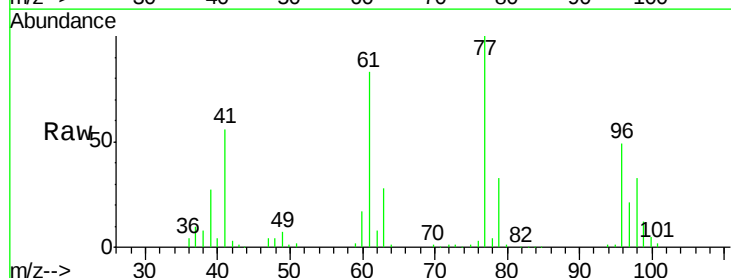
Acq: 20 May 2019 16:37

Tgt Ion: 77 Resp: 1143472

Ion Ratio Lower Upper

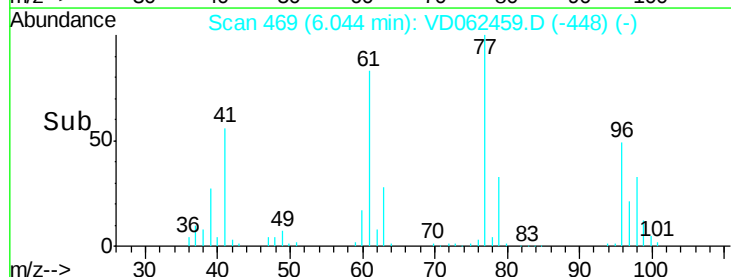
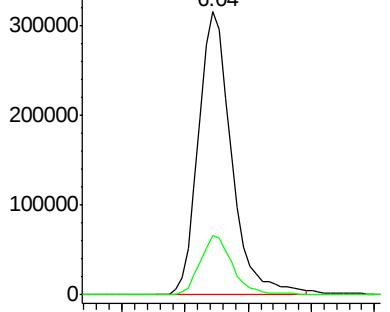
77 100

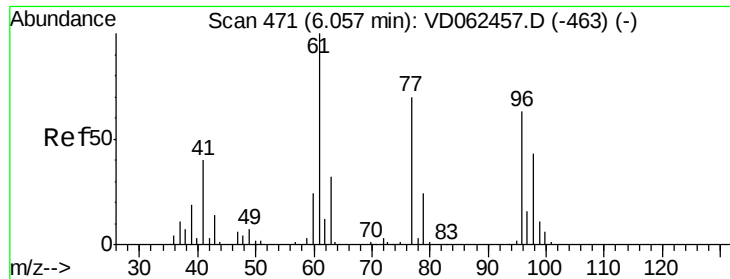
97 20.8 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

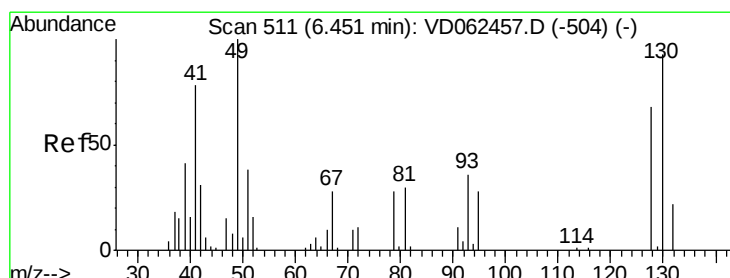
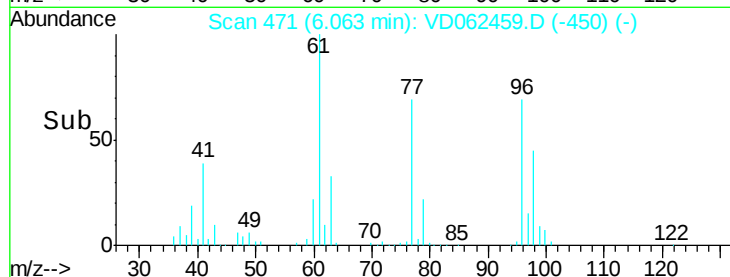
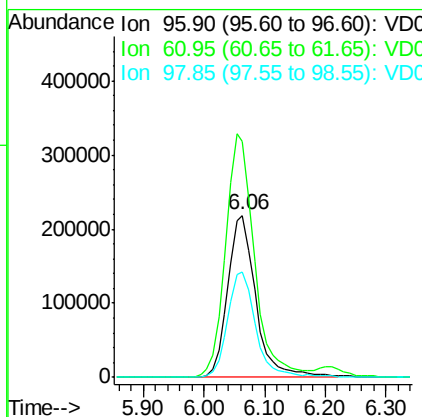
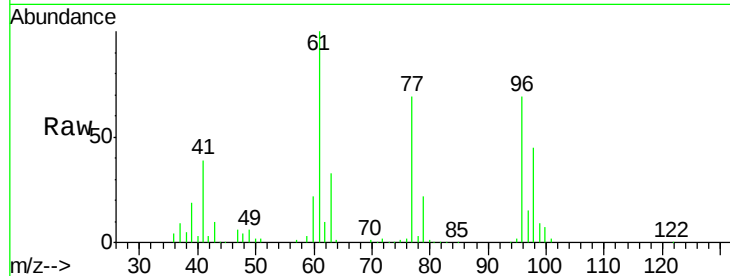
cis-1,2-Dichloroethene
Concen: 101.414 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	145.7	0.0	279.8	
98	64.9	0.0	136.0	

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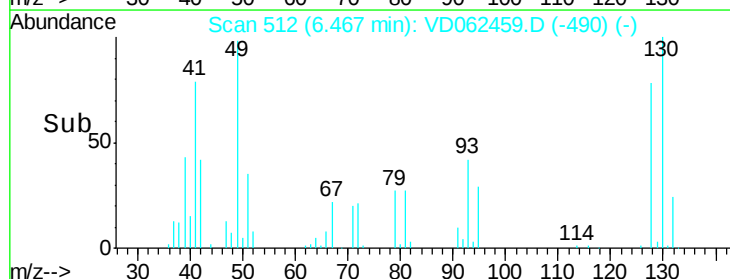
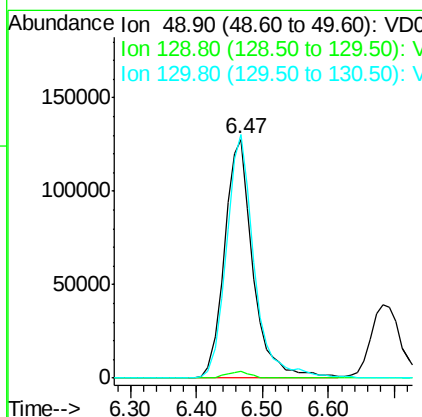
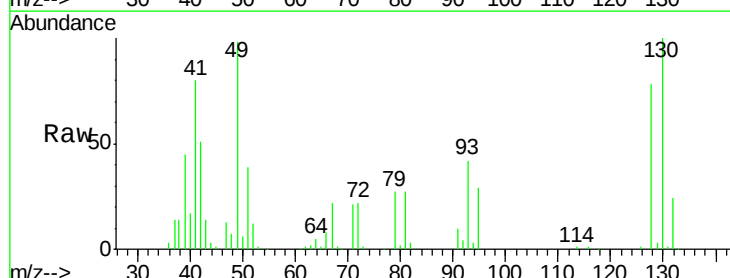
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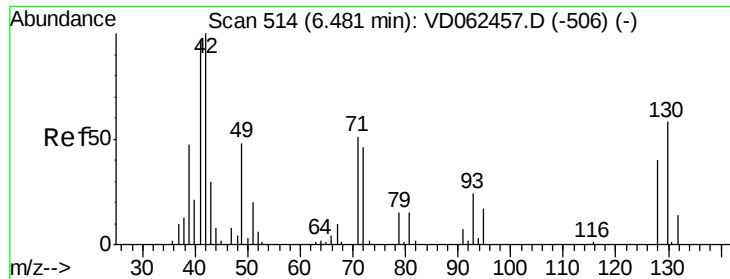


#28

Bromochloromethane
Concen: 94.374 ug/l
RT: 6.47 min Scan# 512
Delta R.T. 0.02 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.8	0.0	6.6	
130	101.9	86.7	130.1	





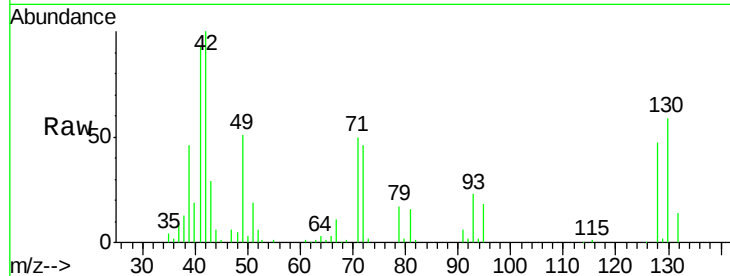
#29
Tetrahydrofuran
Concen: 454.056 ug/l
RT: 6.49 min Scan# 514
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

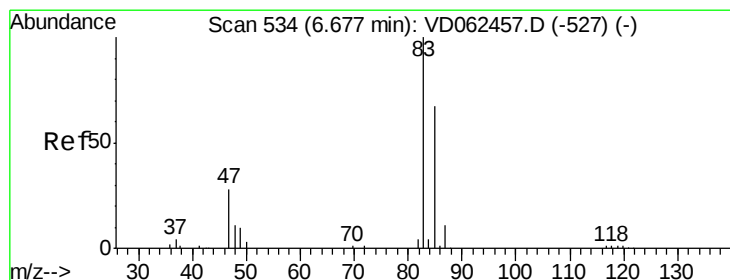
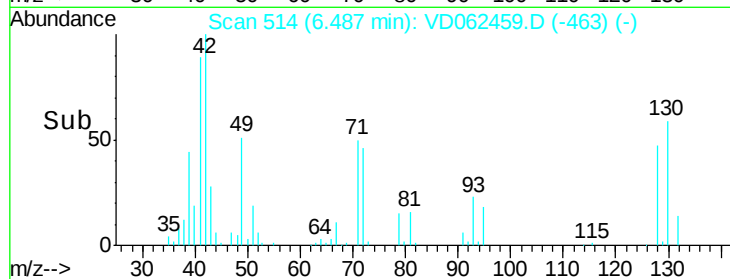
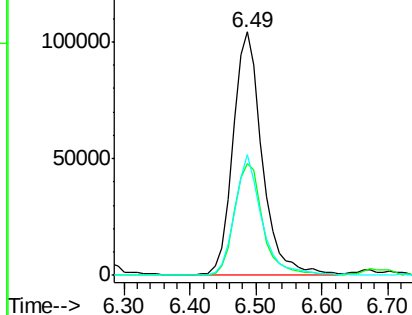
Tot Ion	Ratio	Lower	Upper
42	100		
72	44.8	37.8	56.6
71	45.9	36.7	55.1

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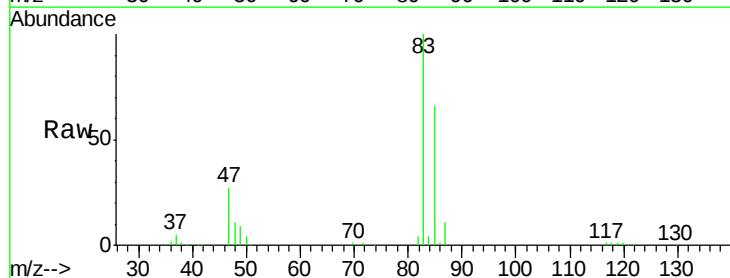


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

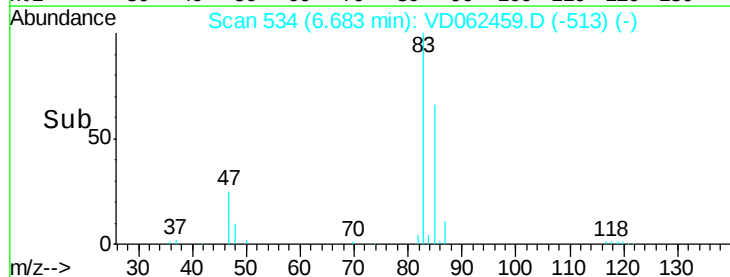
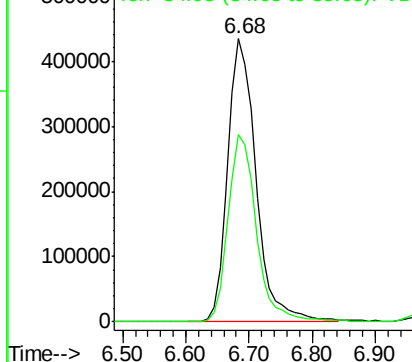


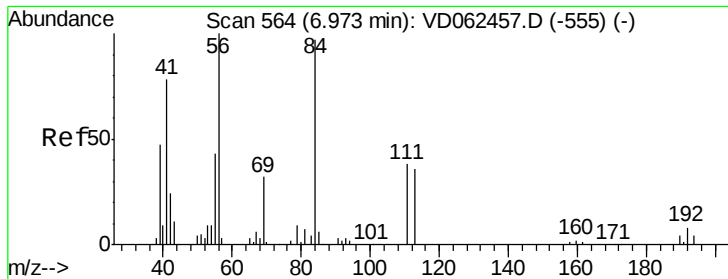
#30
Chloroform
Concen: 107.720 ug/l
RT: 6.68 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.7	77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC





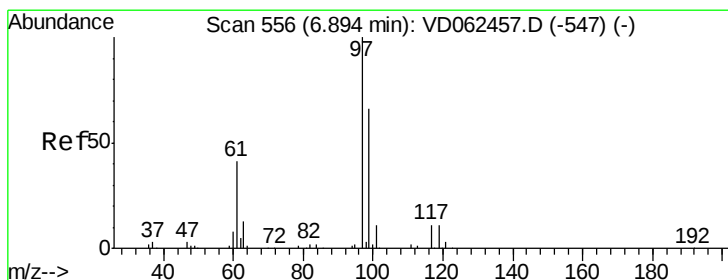
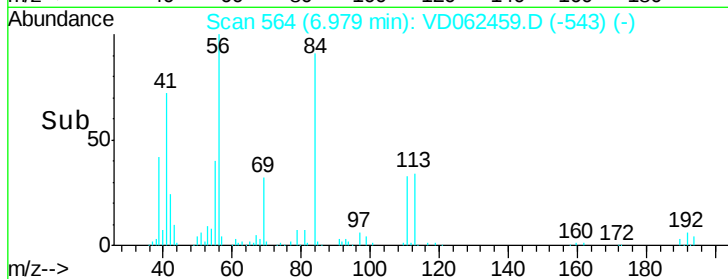
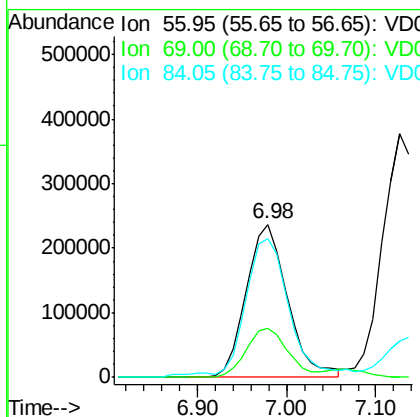
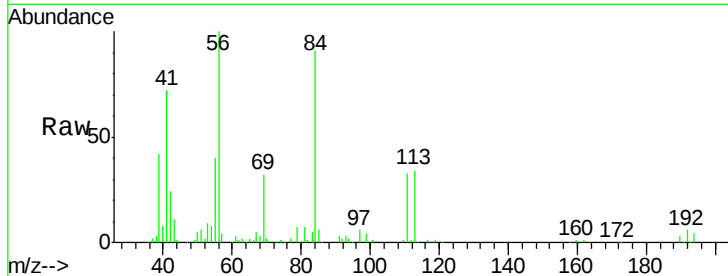
#31
Cvclohexane
Concen: 106.323 ug/l
RT: 6.98 min Scan# 564
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.1	25.8	38.6
84	91.1	72.2	108.4

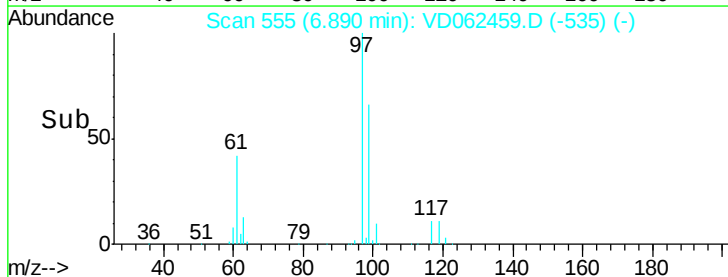
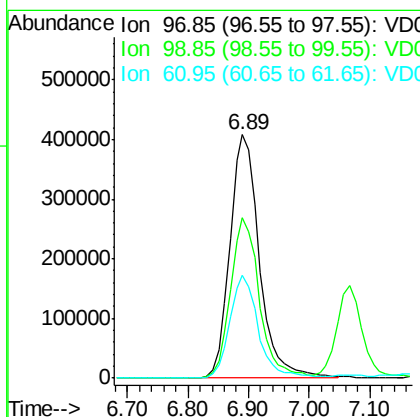
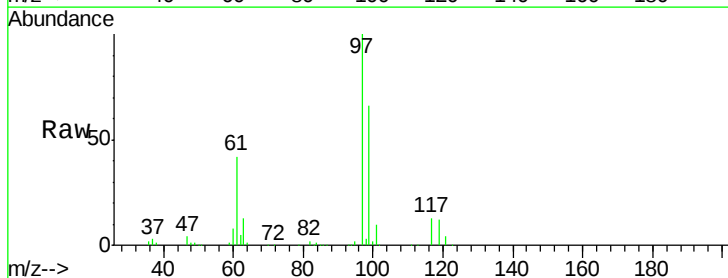
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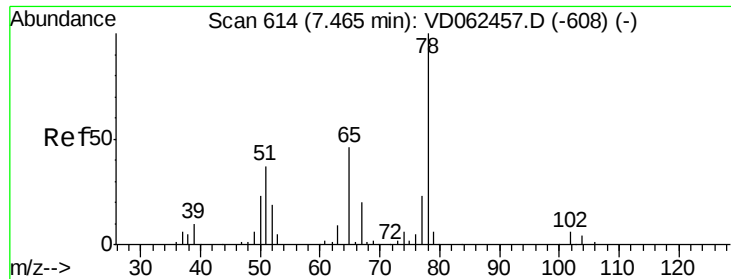
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#32
1,1,1-Trichloroethane
Concen: 116.065 ug/l
RT: 6.89 min Scan# 555
Delta R.T. -0.00 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.1	52.2	78.2
61	42.0	32.4	48.6





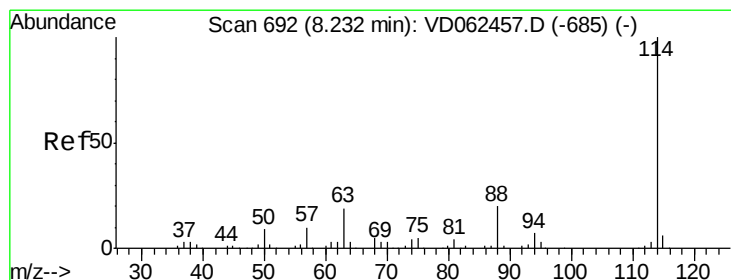
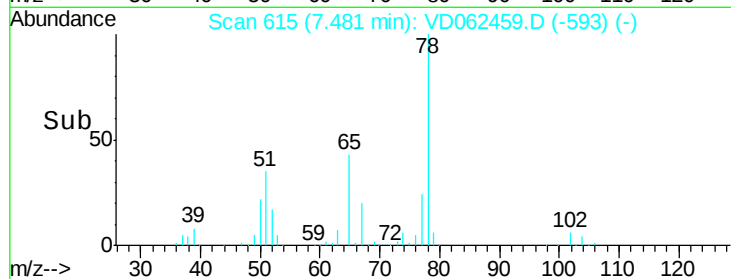
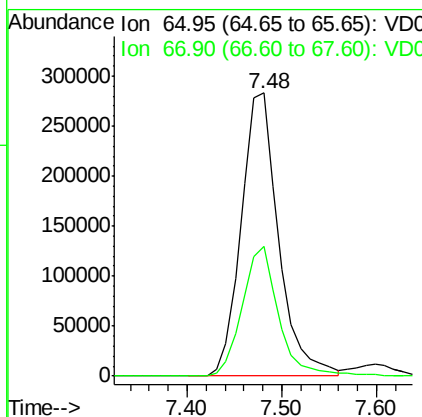
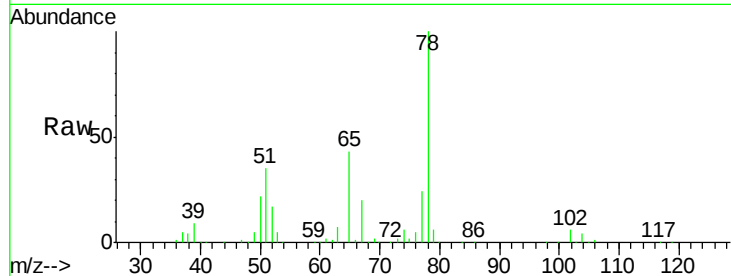
#33
 1,2-Dichloroethane-d4
 Concen: 114.163 ug/l
 RT: 7.48 min Scan# 615
 Delta R.T. 0.02 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	775427		
67	45.9	0.0	98.0	

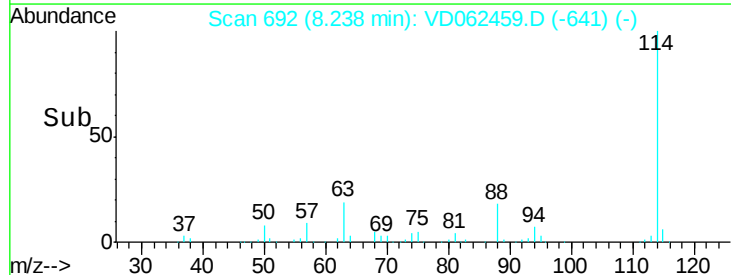
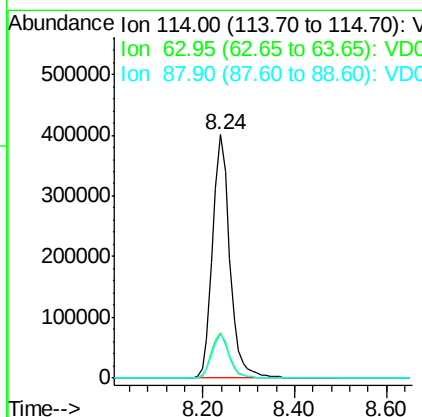
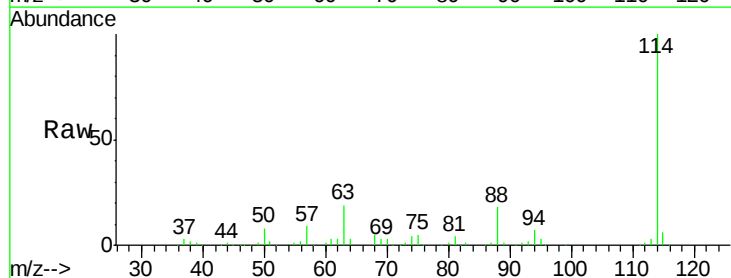
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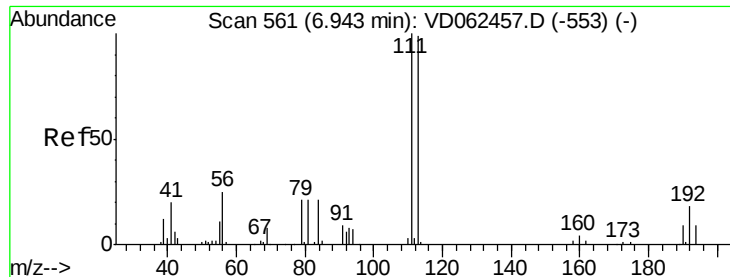
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1032523		
63	18.7	0.0	32.4	
88	18.0	0.0	33.6	





#35

Dibromofluoromethane

Concen: 108.630 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

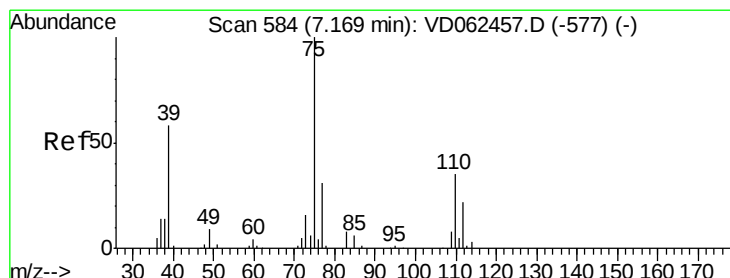
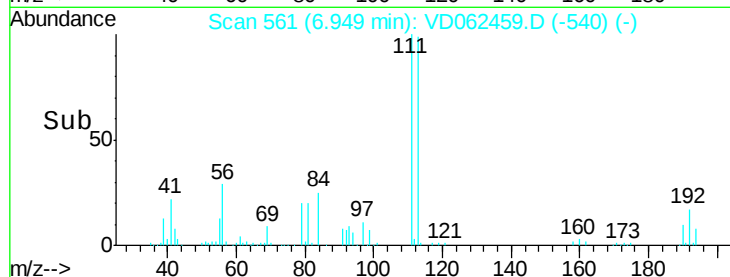
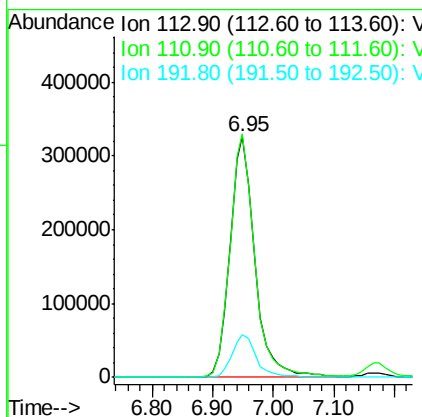
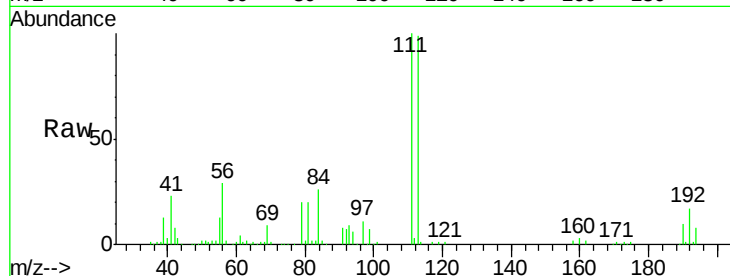
ClientSampleId :

VSTDIC100

Tot Ion:	113	Resp:	930626
Ion	Ratio	Lower	Upper
113	100		
111	101.1	78.5	117.7
192	17.7	13.0	19.4

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#36

1,1-Dichloropropene

Concen: 106.541 ug/l

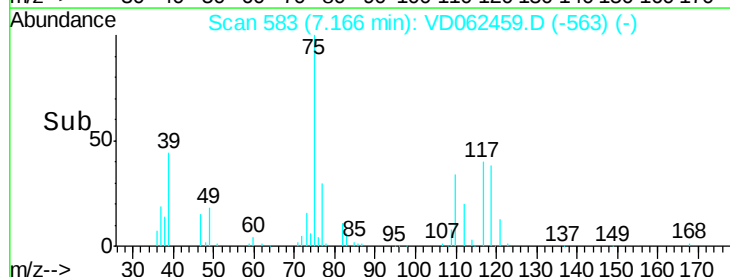
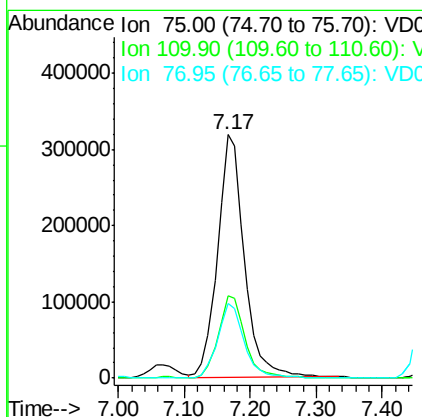
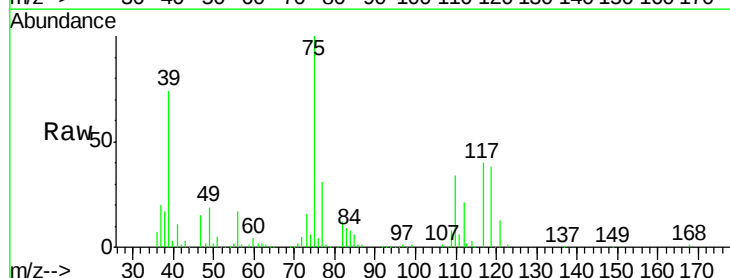
RT: 7.17 min Scan# 583

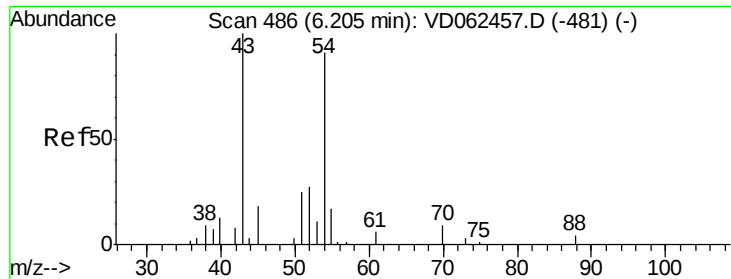
Delta R.T. -0.00 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion:	75	Resp:	901946
Ion	Ratio	Lower	Upper
75	100		
110	33.7	19.1	57.1
77	30.5	25.6	38.4





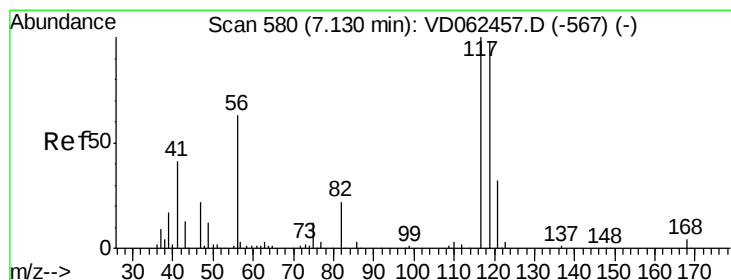
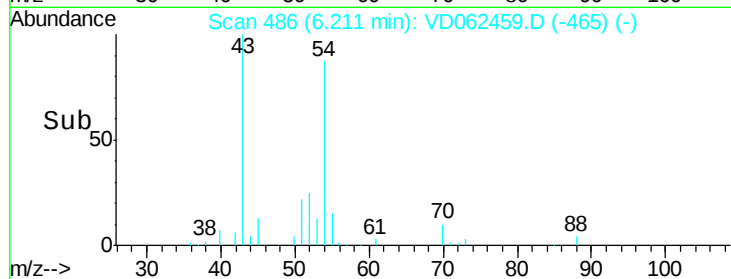
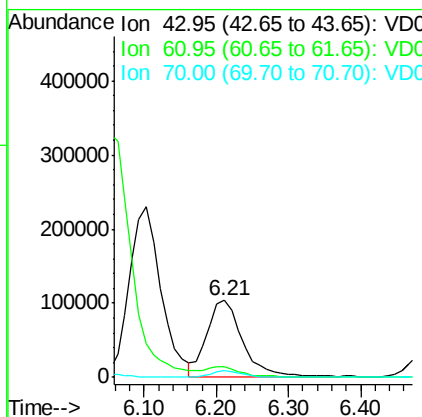
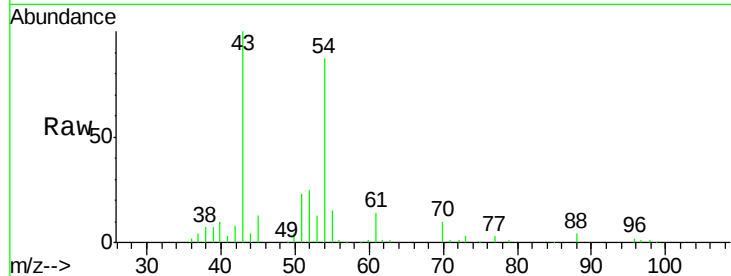
#37
Ethyl Acetate
Concen: 96.924 ug/l
RT: 6.21 min Scan# 486
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	14.7	22.1#
70	9.6	7.8	11.6

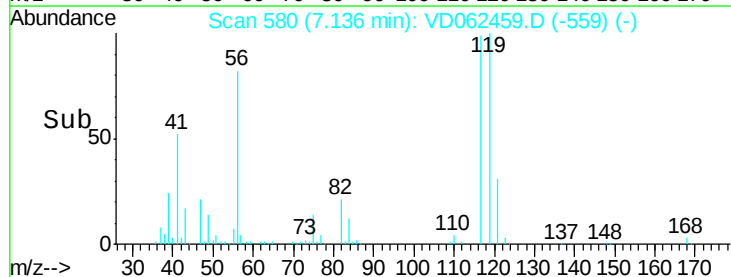
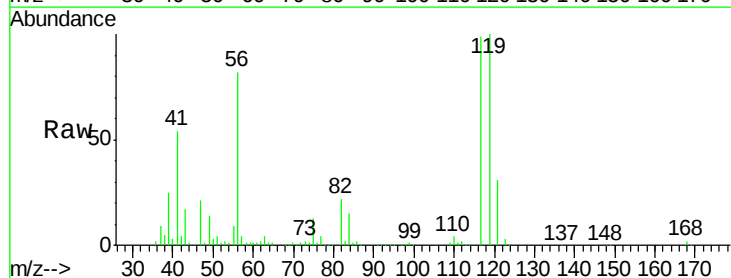
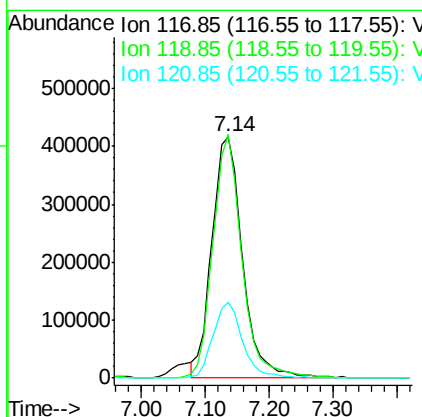
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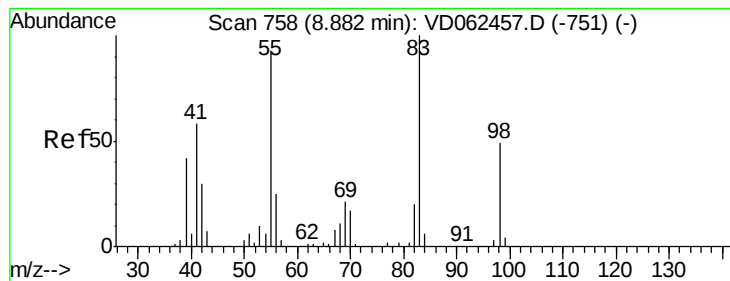
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#38
Carbon Tetrachloride
Concen: 118.318 ug/l m
RT: 7.14 min Scan# 580
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.8	75.8	113.8
121	31.5	25.9	38.9





#39

Methvlcvclohexane

Concen: 99.117 ug/l

RT: 8.89 min Scan# 758

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

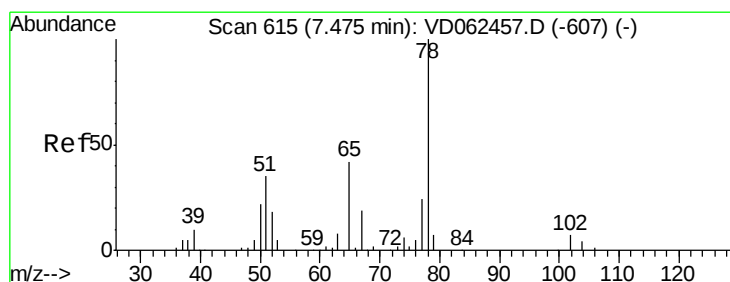
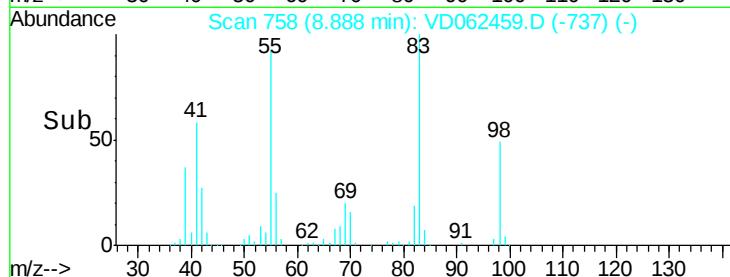
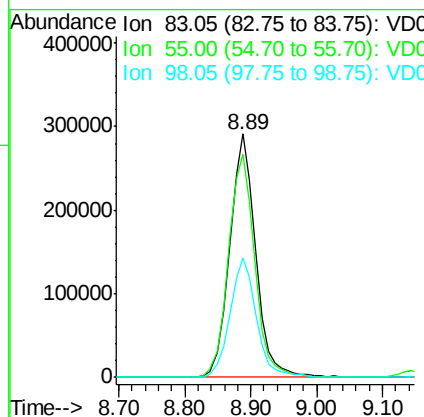
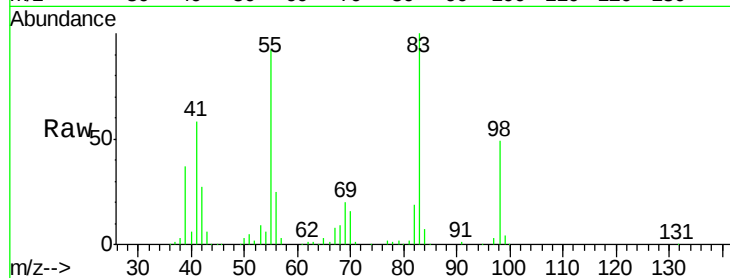
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	803960
Ion	Ratio	Lower	Upper
83	100		
55	91.6	68.2	102.4
98	48.9	38.2	57.4

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#40

Benzene

Concen: 97.906 ug/l

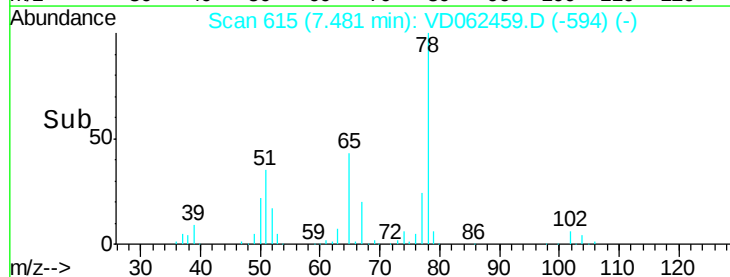
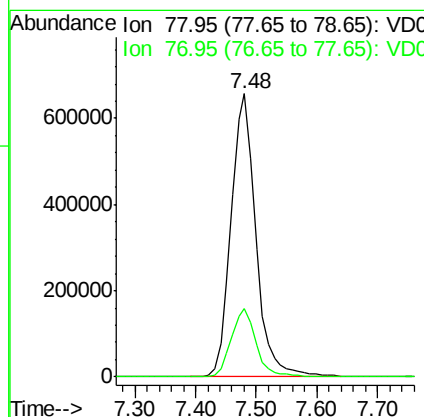
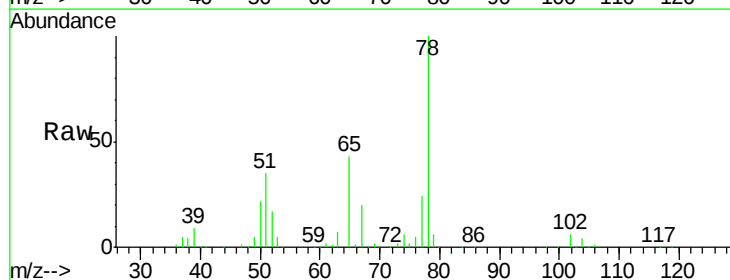
RT: 7.48 min Scan# 615

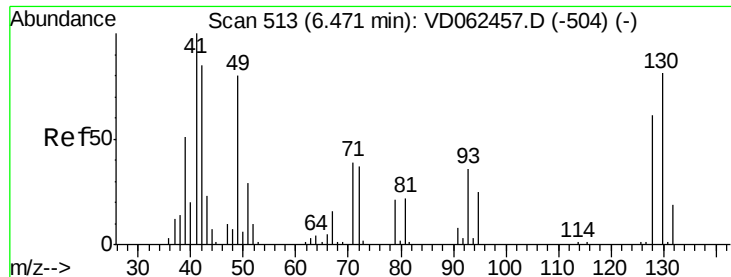
Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion:	78	Resp:	1871617
Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.7	29.5





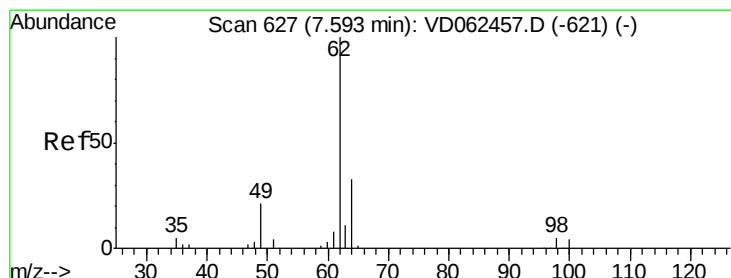
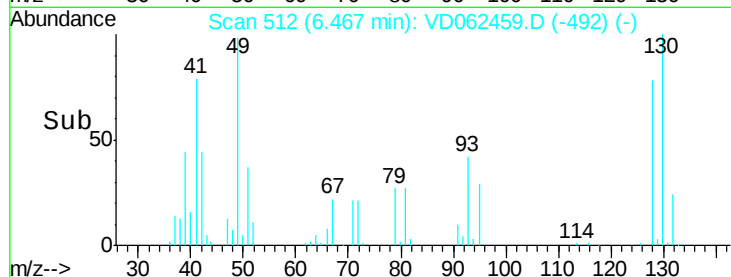
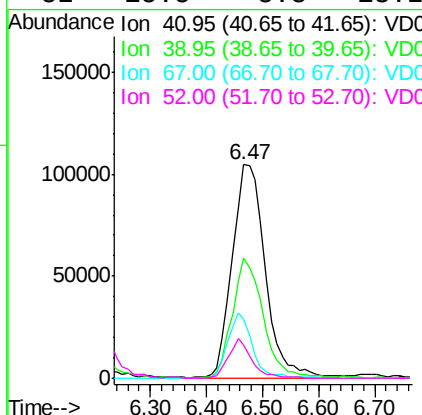
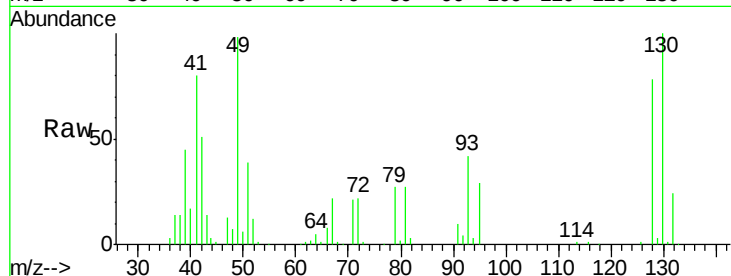
#41
Methacrylonitrile
Concen: 97.989 ug/l
RT: 6.47 min Scan# 512
Delta R.T. -0.00 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		429917		
39	56.5	34.1	51.1#		
67	27.4	23.8	35.6		
52	15.5	8.8	13.2#		

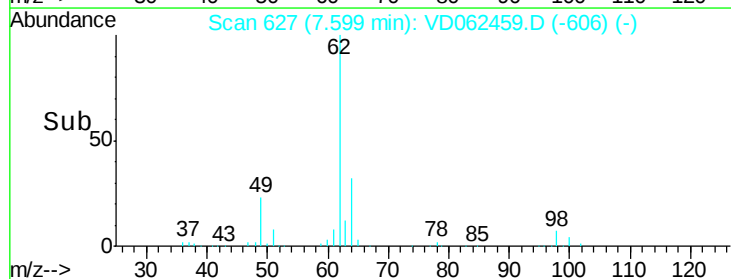
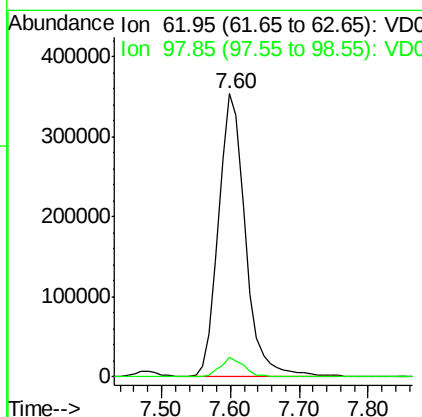
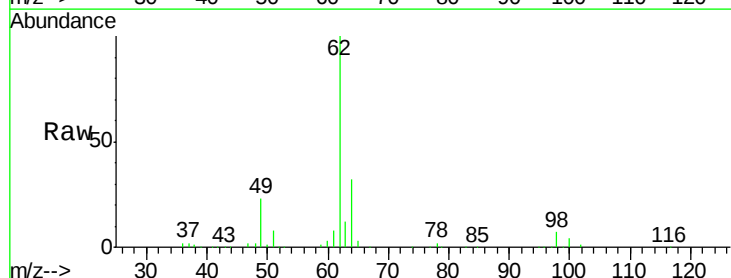
Manual Integrations
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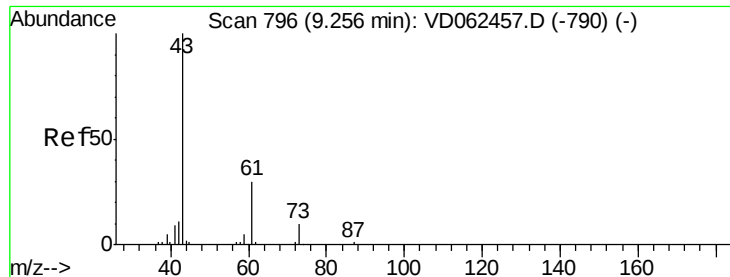
MMDadoda
5/22/2019 4:49:06 AM



#42
1,2-Dichloroethane
Concen: 117.771 ug/l
RT: 7.60 min Scan# 627
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		953869		
98	6.8	0.0	17.8		





#43

Isopropyl Acetate

Concen: 97.613 ug/l

RT: 9.26 min Scan# 796

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

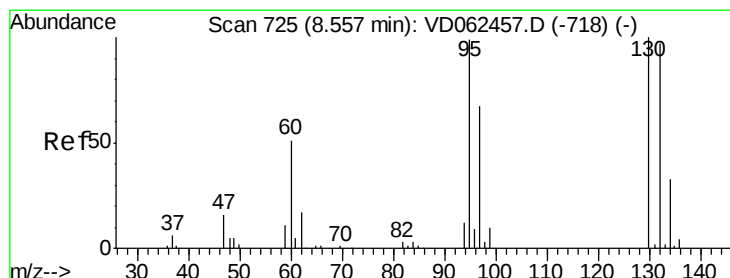
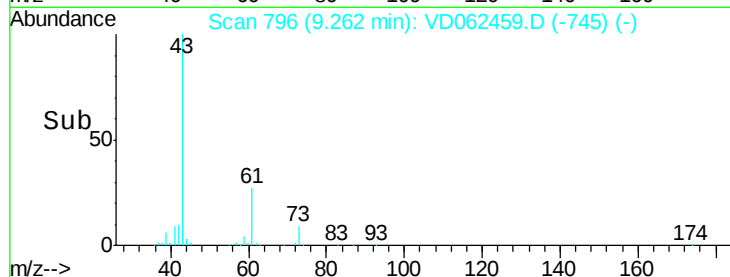
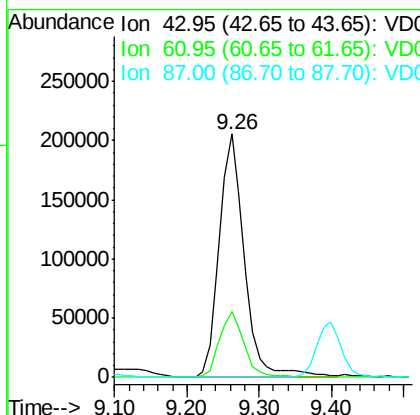
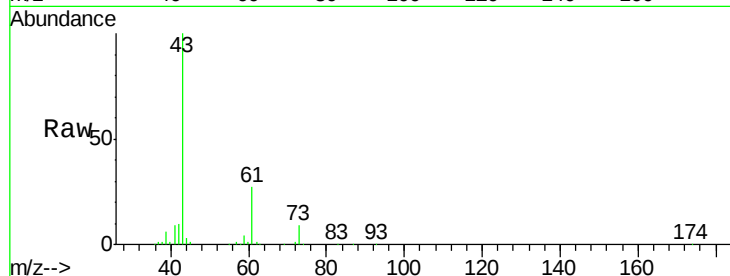
ClientSampleId :

VSTDIC100

Tot Ion:	43	Resp:	497017
Ion	Ratio	Lower	Upper
43	100		
61	27.0	25.1	37.7
87	0.2	0.0	0.0

Manual Integrations
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5/22/2019 4:49:06 AM



#44

Trichloroethene

Concen: 106.070 ug/l

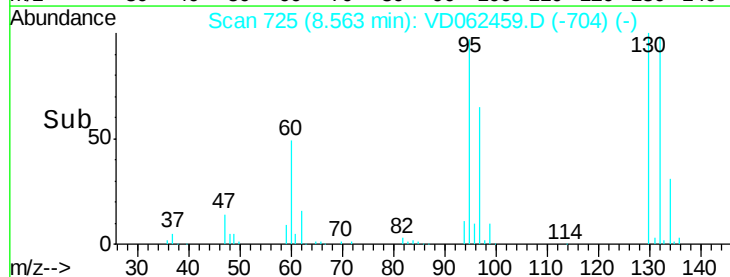
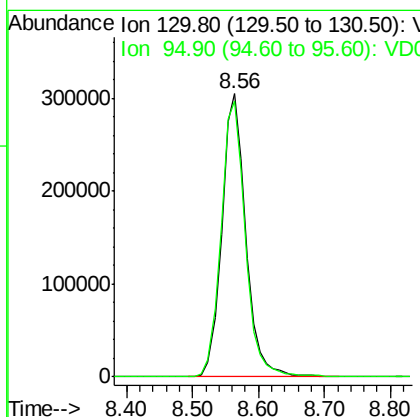
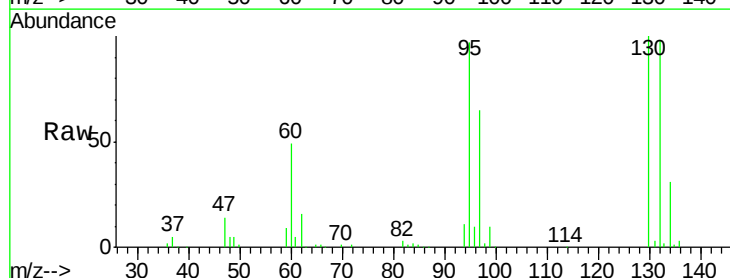
RT: 8.56 min Scan# 725

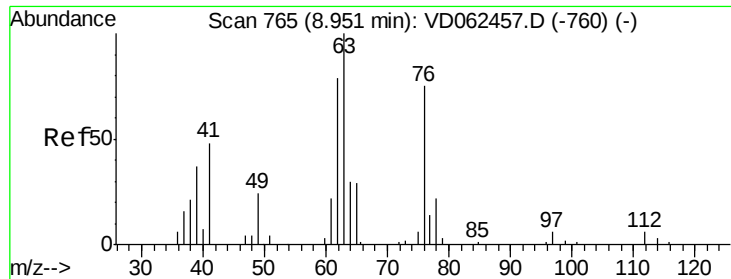
Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion:	130	Resp:	772667
Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	174.0





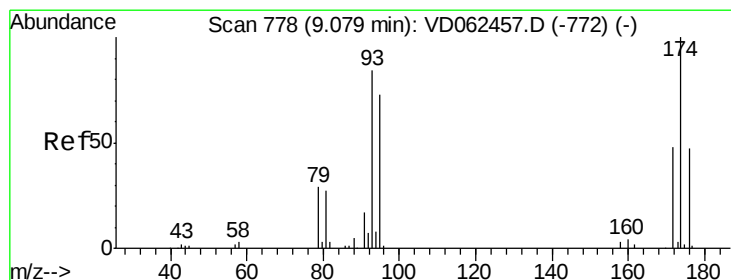
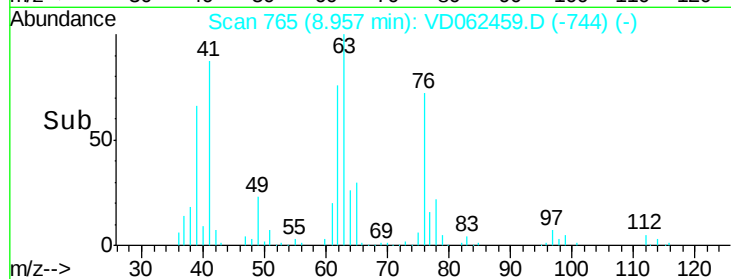
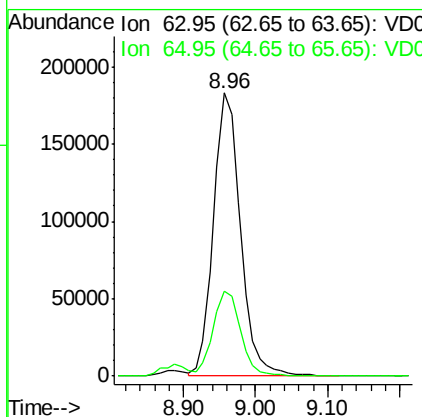
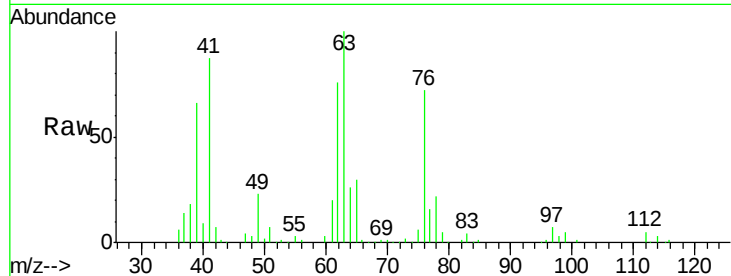
#45
 1,2-Dichloropropane
 Concen: 99.558 ug/l
 RT: 8.96 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tot Ion: 63 Resp: 470761
 Ion Ratio Lower Upper
 63 100
 65 30.0 23.8 35.6

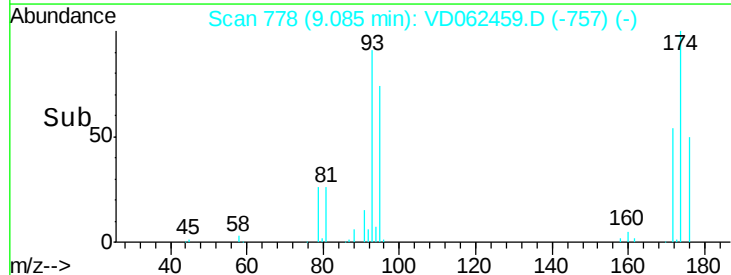
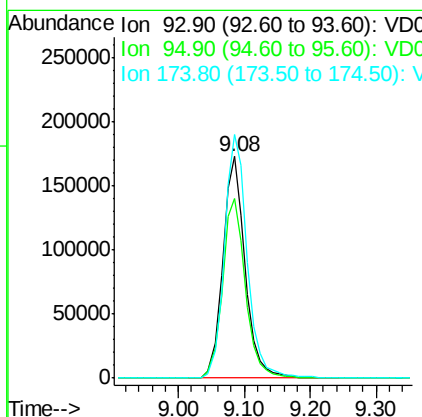
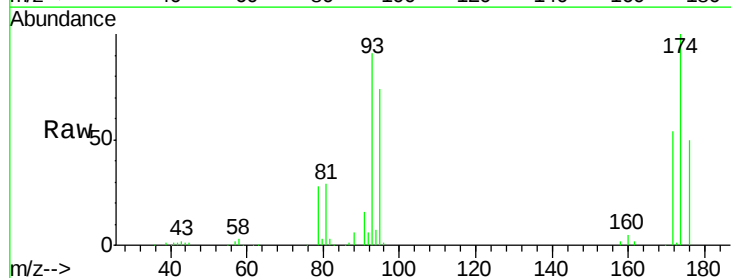
Manual Integrations
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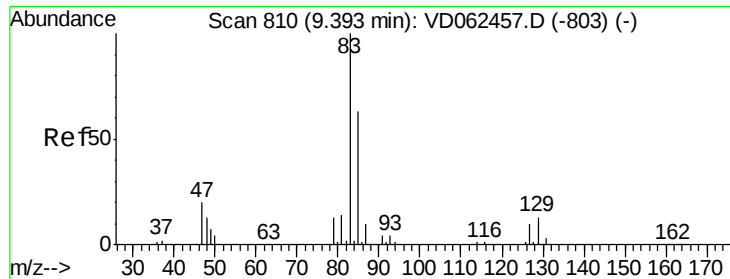
MMDadoda
 5/22/2019 4:49:06 AM



#46
 Dibromomethane
 Concen: 106.054 ug/l
 RT: 9.08 min Scan# 778
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion: 93 Resp: 407794
 Ion Ratio Lower Upper
 93 100
 95 81.2 64.8 97.2
 174 110.0 79.3 118.9





#47

Bromodichloromethane

Concen: 114.301 ug/l

RT: 9.40 min Scan# 810

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1075041

Ion Ratio Lower Upper

83 100

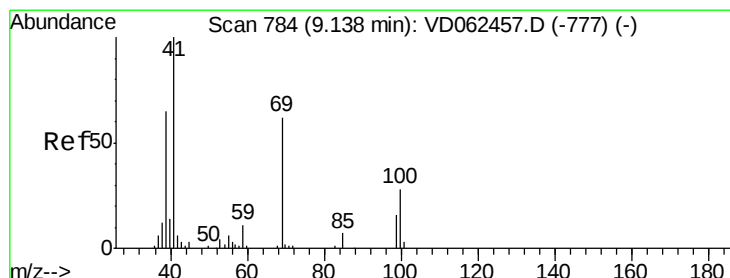
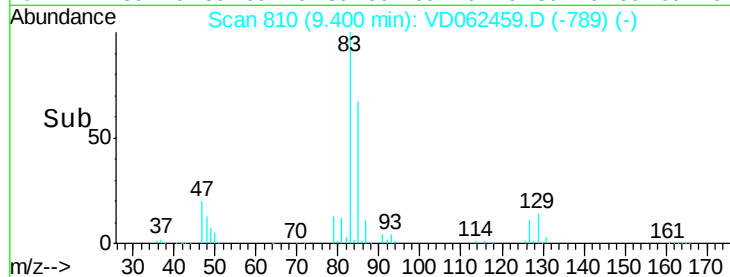
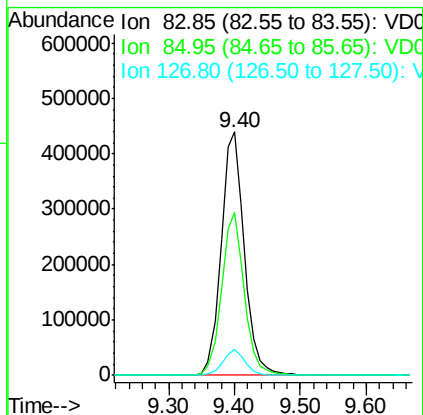
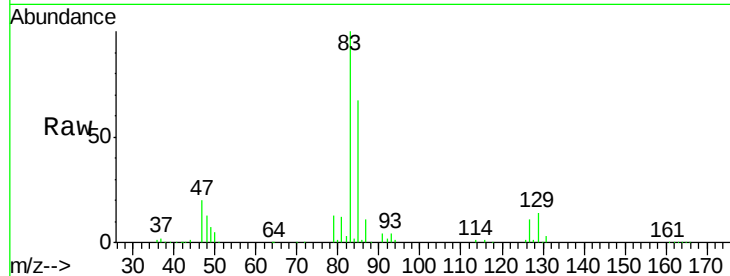
85 66.7 50.9 76.3

127 10.5 8.1 12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 103.260 ug/l

RT: 9.14 min Scan# 784

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

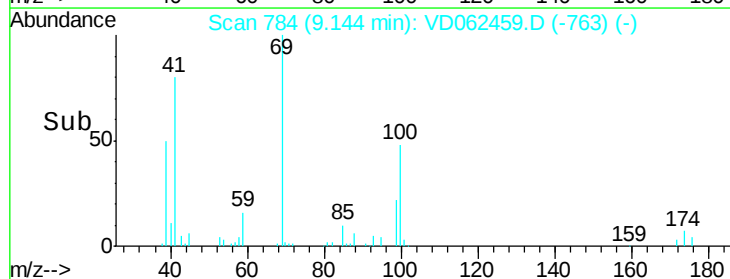
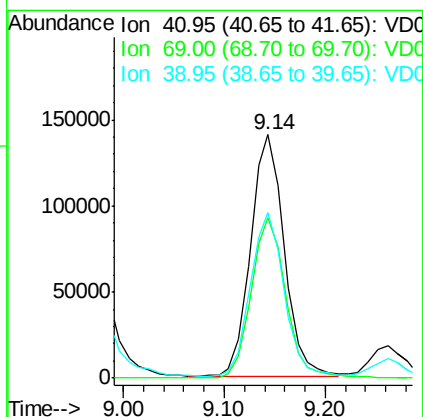
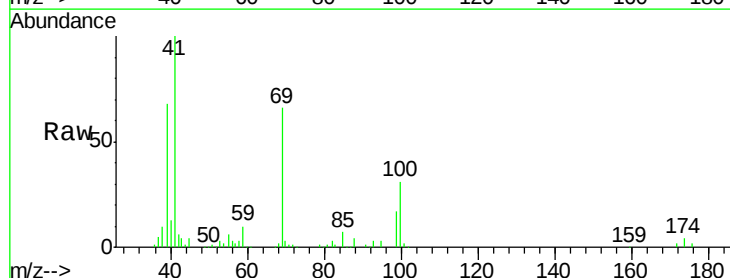
Tgt Ion: 41 Resp: 323851

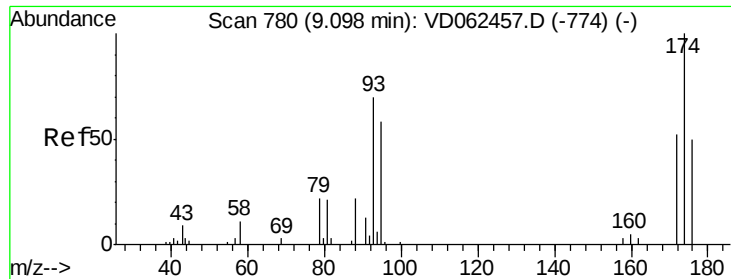
Ion Ratio Lower Upper

41 100

69 65.9 64.2 96.2

39 68.1 46.8 70.2





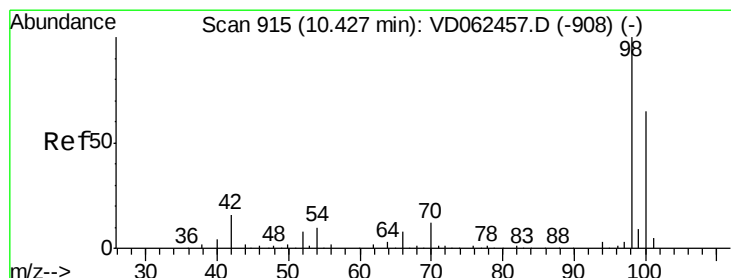
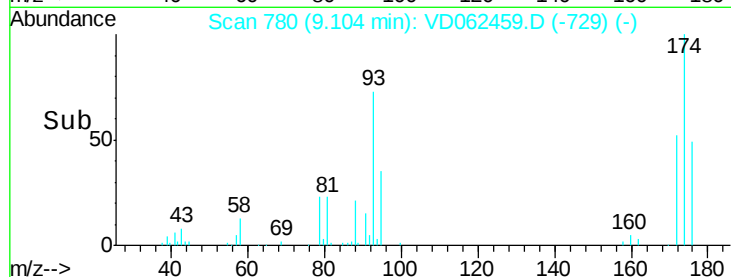
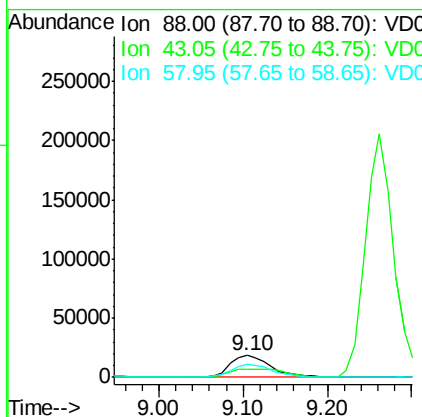
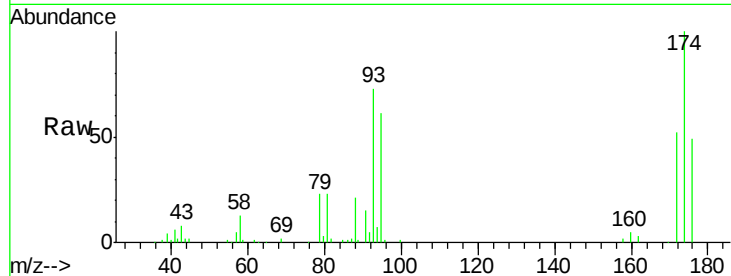
#49
 1,4-Dioxane
 Concen: 1807.209 ug/l
 RT: 9.10 min Scan# 780
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.1	23.4	35.0#
58	60.7	44.0	66.0

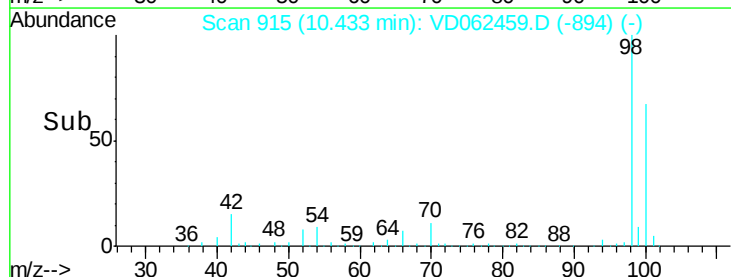
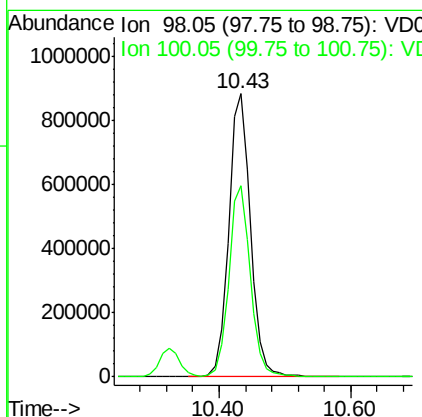
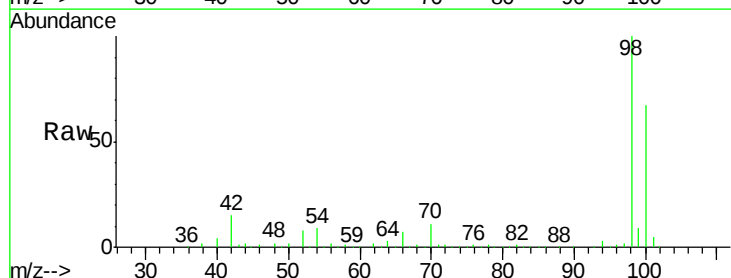
Manual Integrations
 APPROVED

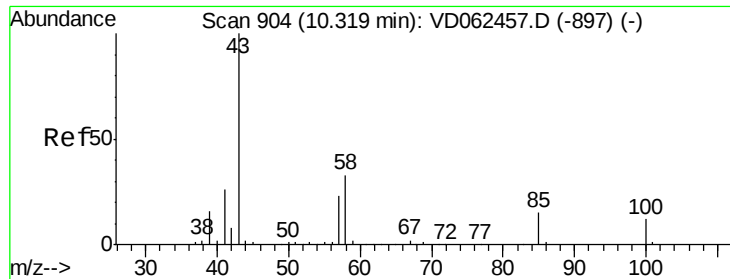
MMDadoda
 5/22/2019 4:49:06 AM



#50
 Toluene-d8
 Concen: 98.689 ug/l
 RT: 10.43 min Scan# 915
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 487.315 ug/l

RT: 10.32 min Scan# 904

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1594975

Ion Ratio Lower Upper

43 100

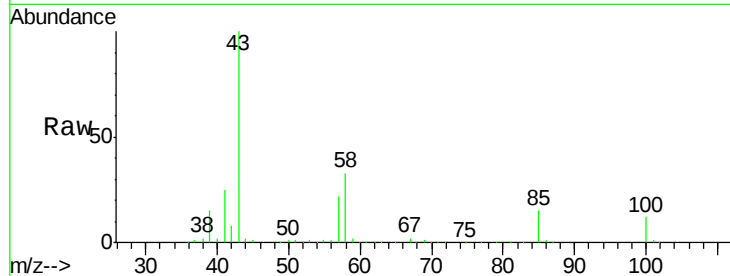
58 33.4 30.4 45.6

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.32

800000

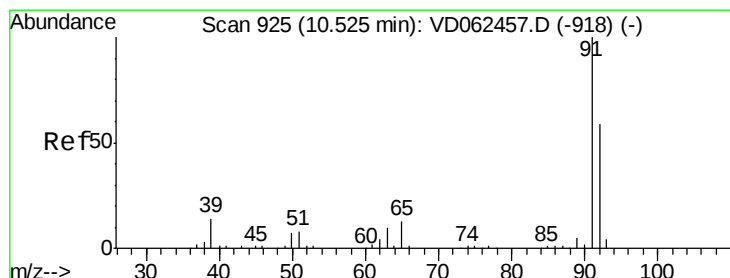
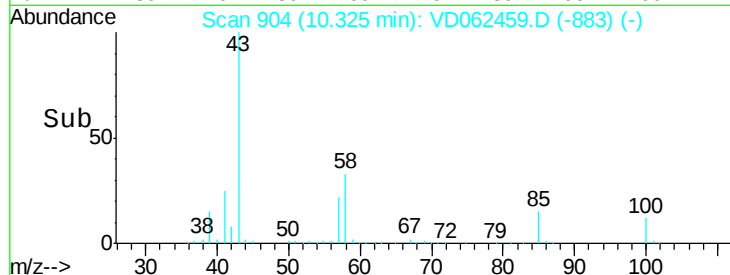
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 102.305 ug/l

RT: 10.52 min Scan# 924

Delta R.T. -0.00 min

Lab File: VD062459.D

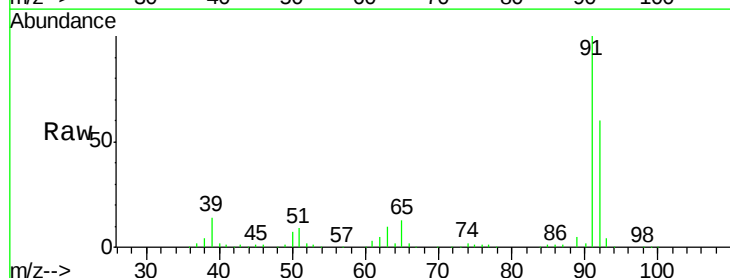
Acq: 20 May 2019 16:37

Tgt Ion: 92 Resp: 1272475

Ion Ratio Lower Upper

92 100

91 166.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.52

1000000

800000

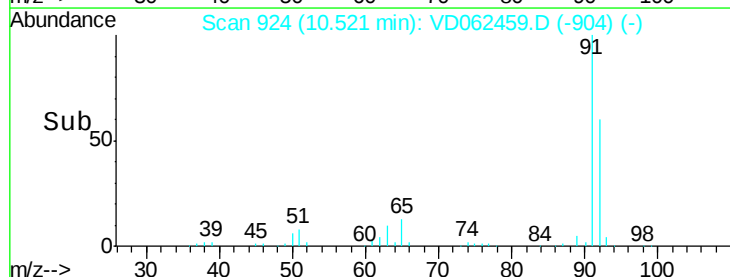
600000

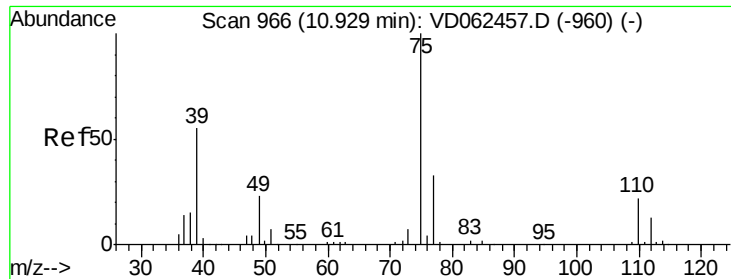
400000

200000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 112.380 ug/l

RT: 10.93 min Scan# 966

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 913520

Ion Ratio Lower Upper

75 100

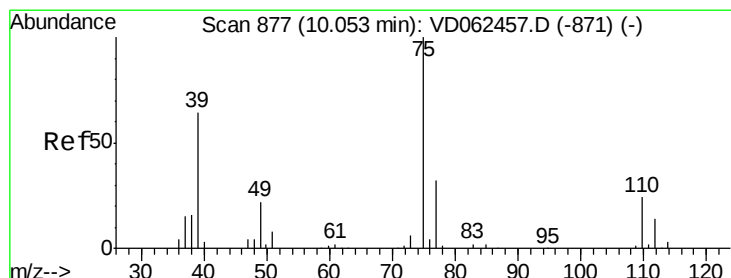
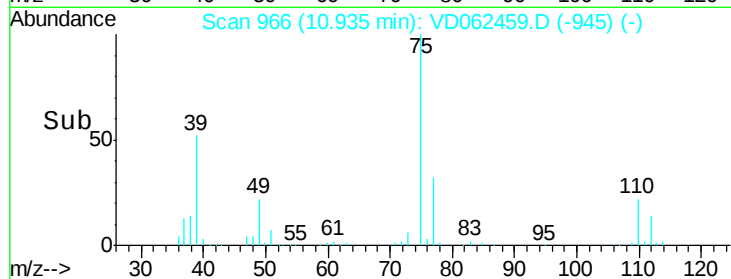
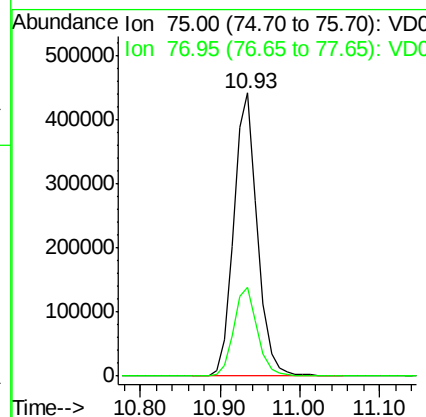
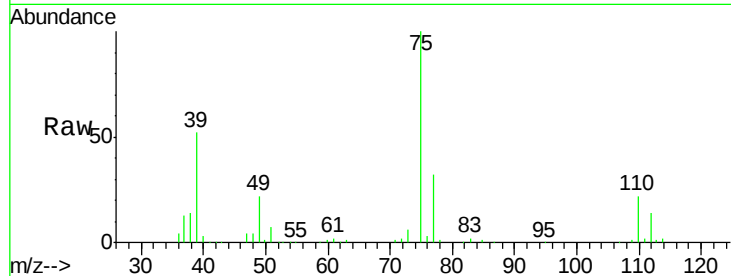
77 31.6 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 106.730 ug/l

RT: 10.06 min Scan# 877

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

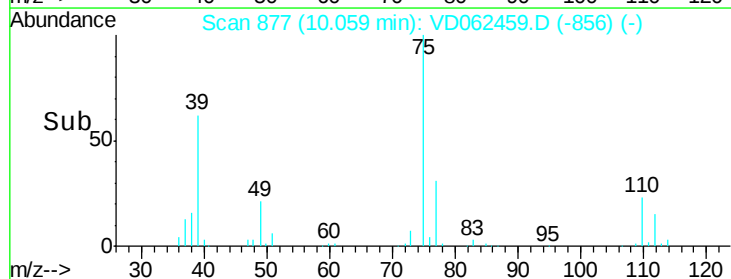
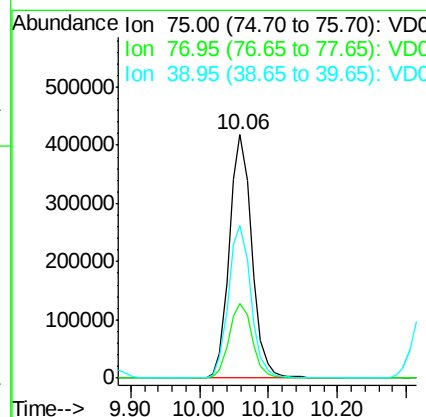
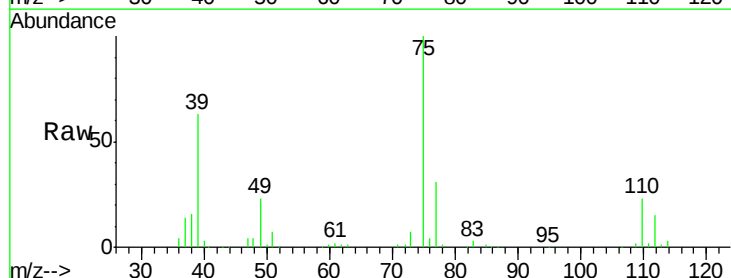
Tgt Ion: 75 Resp: 946476

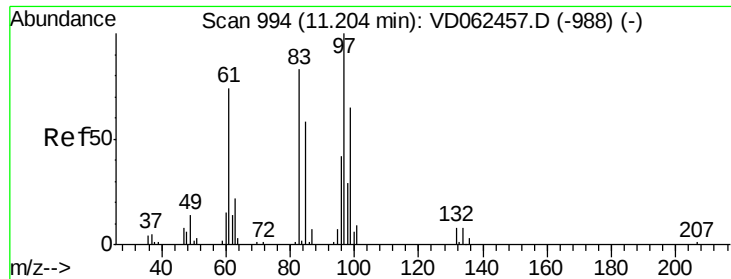
Ion Ratio Lower Upper

75 100

77 30.9 25.5 38.3

39 62.7 39.4 59.2#





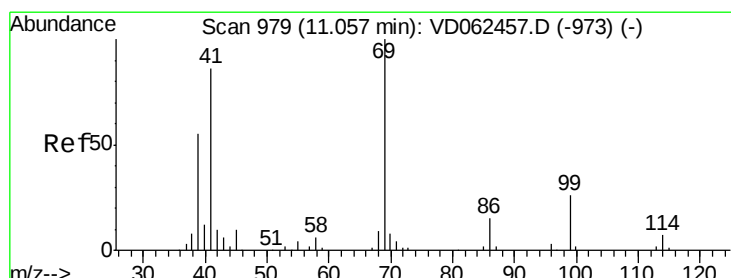
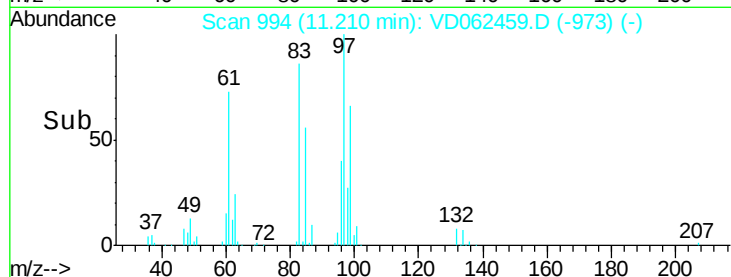
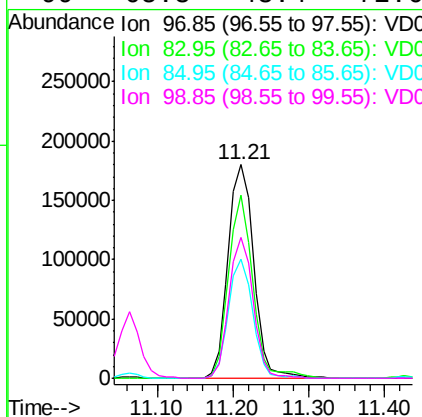
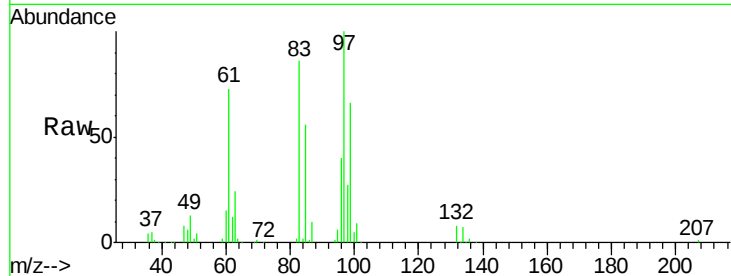
#55
 1,1,2-Trichloroethane
 Concen: 95.764 ug/l
 RT: 11.21 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
97	100	421443		
83	85.5	65.7	98.5	
85	55.7	45.6	68.4	
99	65.8	48.4	72.6	

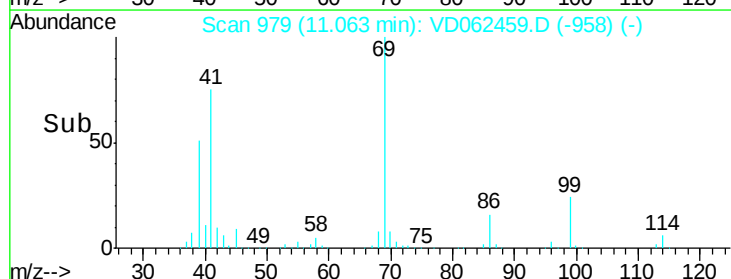
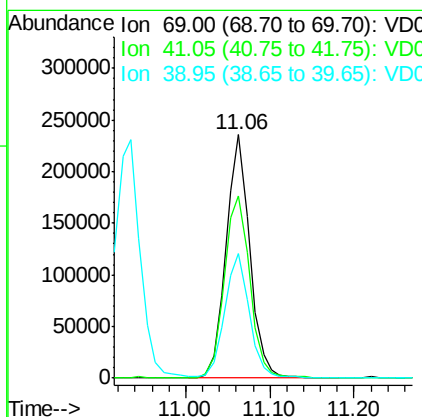
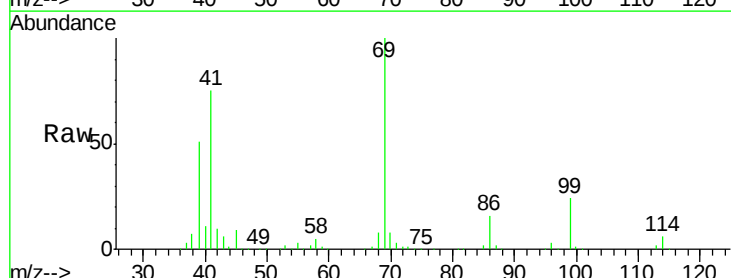
Manual Integrations
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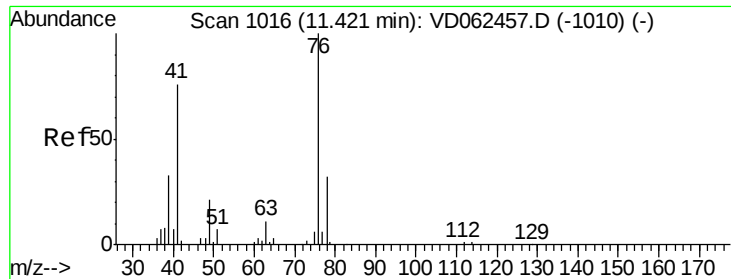
MMDadoda
 5/22/2019 4:49:06 AM



#56
 Ethyl methacrylate
 Concen: 100.733 ug/l
 RT: 11.06 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	460668		
41	74.9	56.3	84.5	
39	51.2	29.4	44.2	





#57

1,3-Dichloropropane

Concen: 103.485 ug/l

RT: 11.43 min Scan# 1016

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 688034

Ion Ratio Lower Upper

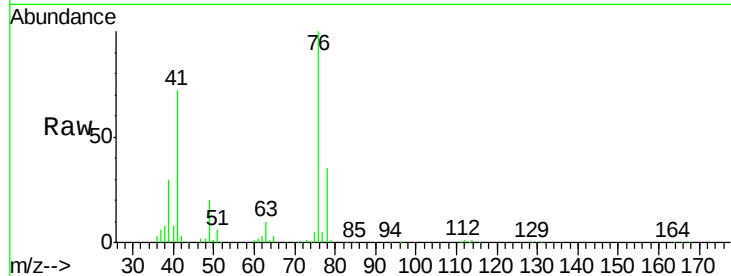
76 100

78 35.1 26.2 39.2

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Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.43

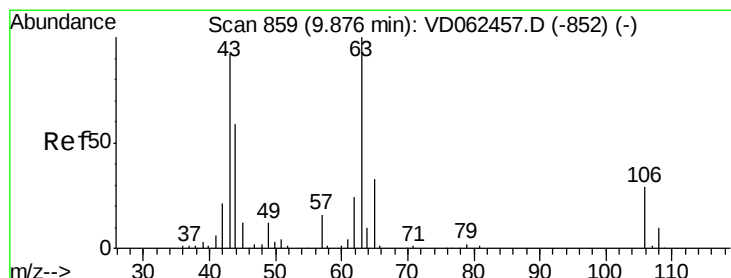
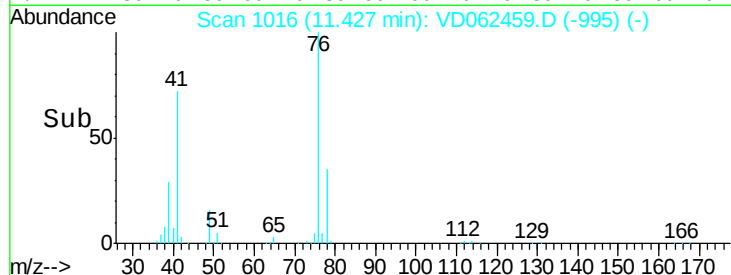
300000

200000

100000

0

Time--> 11.30 11.40 11.50 11.60



#58

2-Chloroethyl Vinyl ether

Concen: 431.951 ug/l

RT: 9.88 min Scan# 859

Delta R.T. 0.01 min

Lab File: VD062459.D

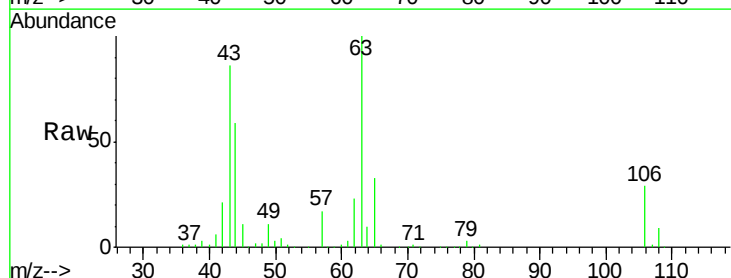
Acq: 20 May 2019 16:37

Tgt Ion: 63 Resp: 1079020

Ion Ratio Lower Upper

63 100

106 29.2 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.88

500000

400000

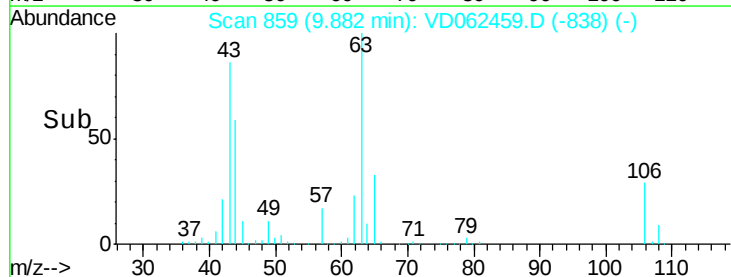
300000

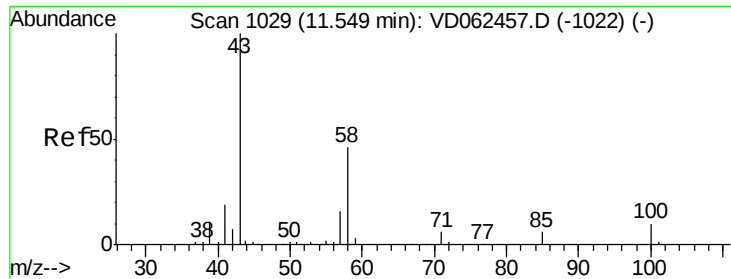
200000

100000

0

Time--> 9.70 9.80 9.90 10.00





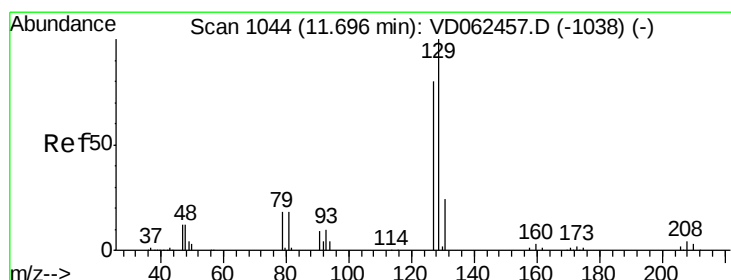
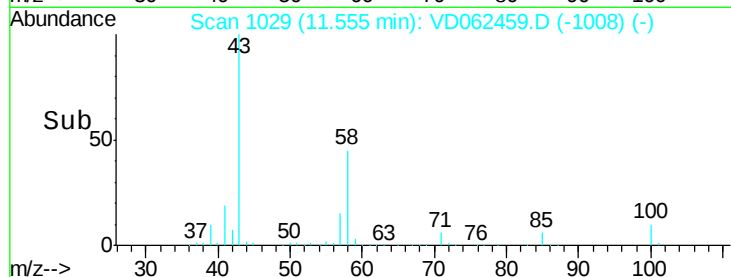
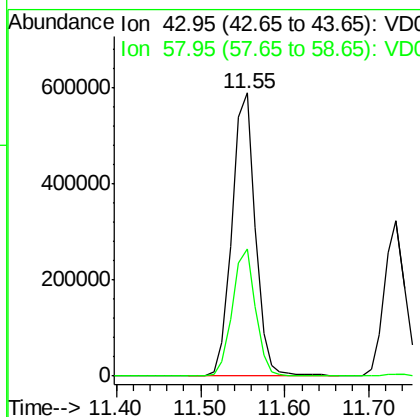
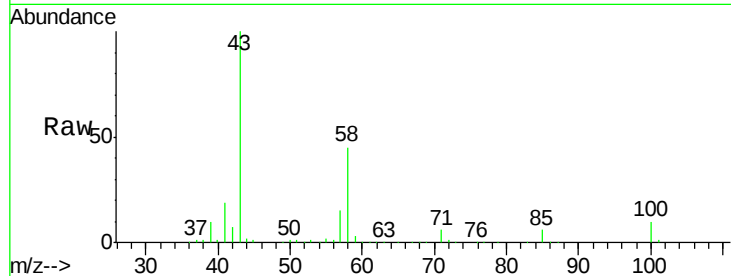
#59
2-Hexanone
Concen: 471.184 ug/l
RT: 11.55 min Scan# 1029
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 1136643
Ion Ratio Lower Upper
43 100
58 44.7 25.4 76.4

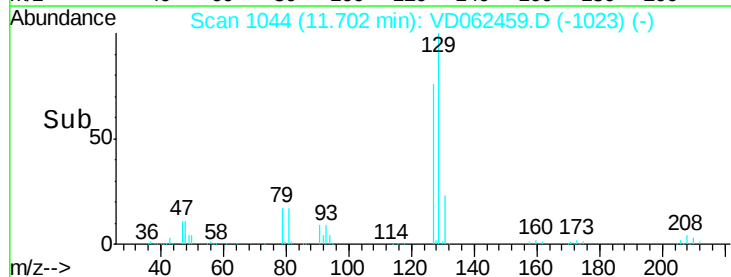
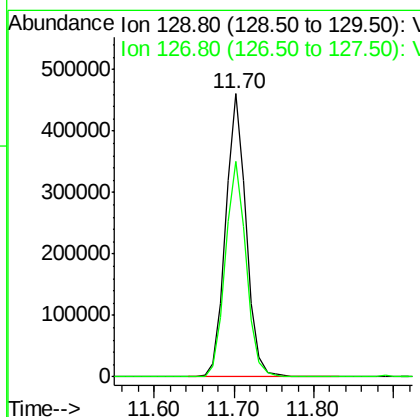
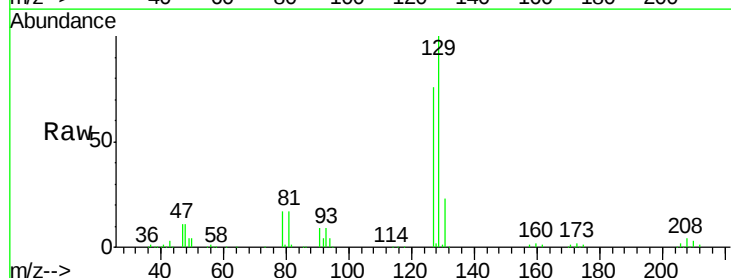
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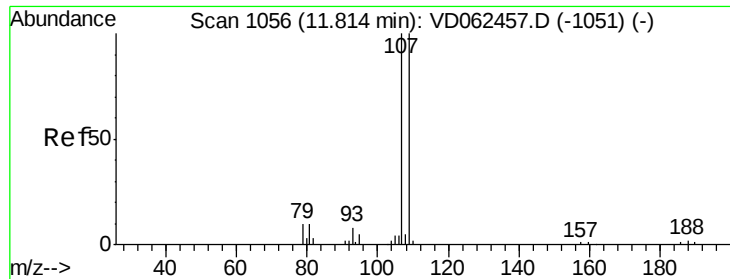
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#60
Dibromochloromethane
Concen: 110.015 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion: 129 Resp: 836731
Ion Ratio Lower Upper
129 100
127 76.3 38.0 113.9





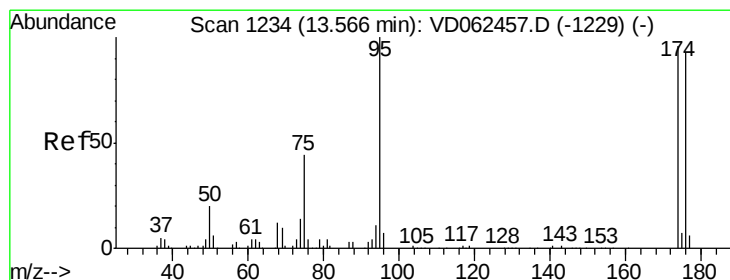
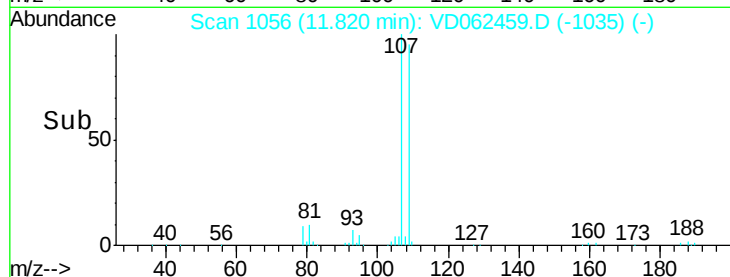
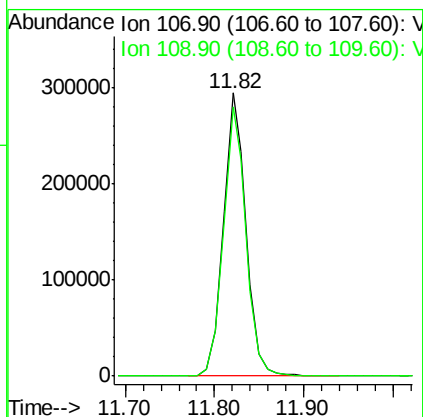
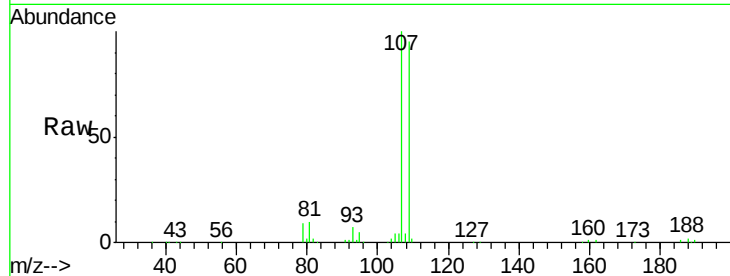
#61
 1,2-Dibromoethane
 Concen: 97.871 ug/l
 RT: 11.82 min Scan# 1056
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tot Ion: 107 Resp: 523652
 Ion Ratio Lower Upper
 107 100
 109 95.1 78.3 117.5

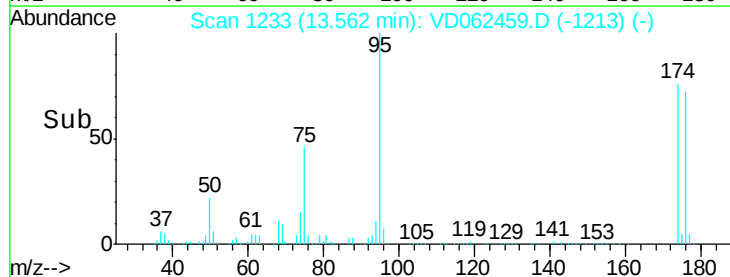
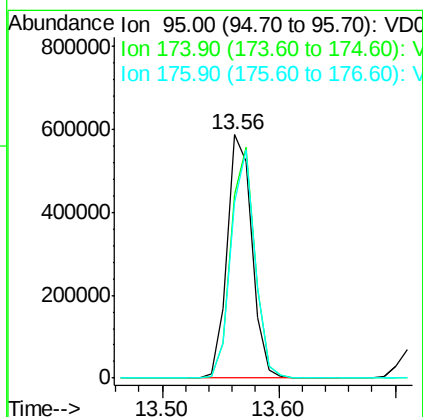
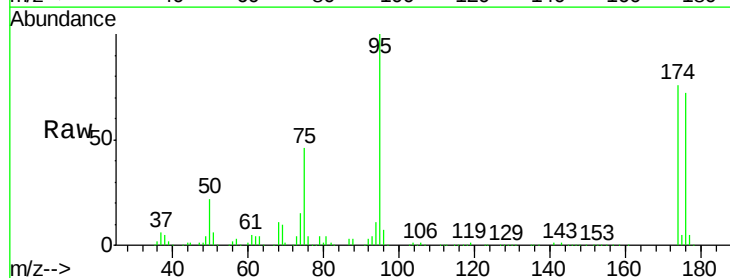
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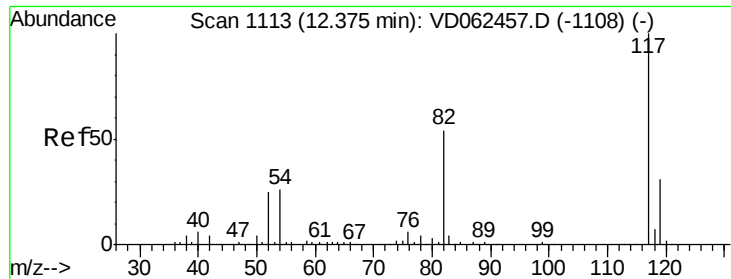
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#62
 4-Bromofluorobenzene
 Concen: 104.381 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.00 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion: 95 Resp: 865793
 Ion Ratio Lower Upper
 95 100
 174 75.5 0.0 181.8
 176 72.0 0.0 174.4





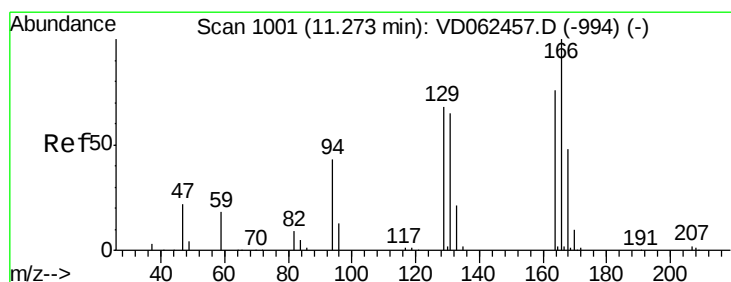
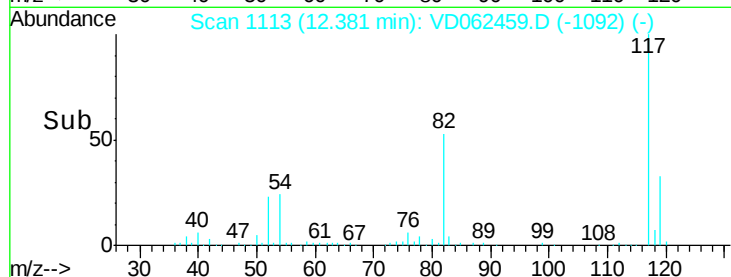
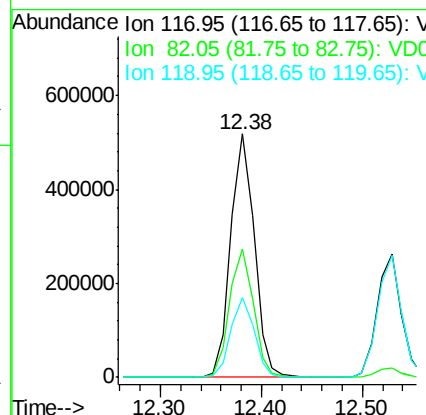
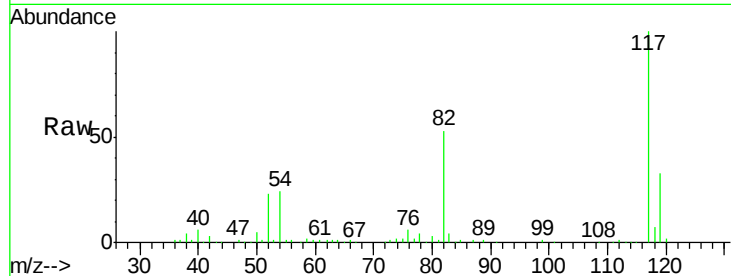
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	36.2	54.2
119	32.8	26.2	39.4

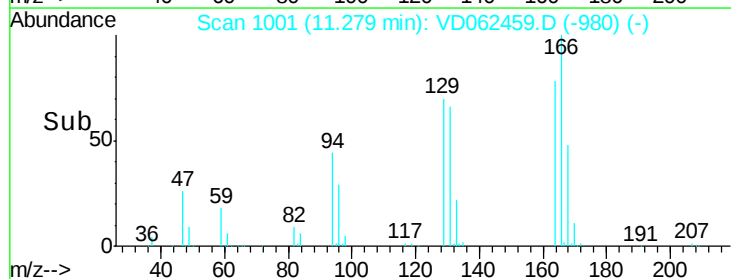
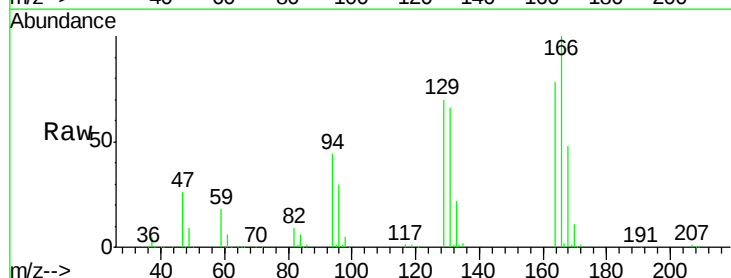
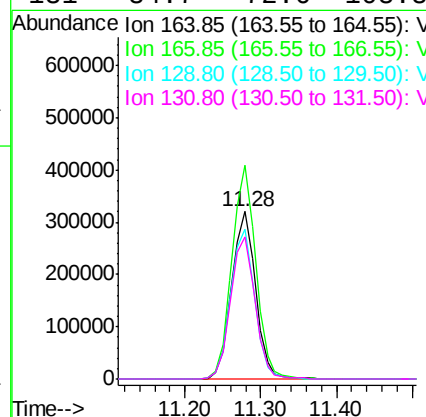
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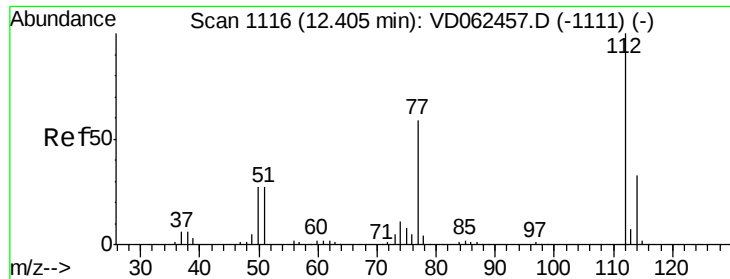
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#64
Tetrachloroethene
Concen: 104.814 ug/l
RT: 11.28 min Scan# 1001
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.7	101.5	152.3
129	89.7	74.6	112.0
131	84.7	72.6	108.8





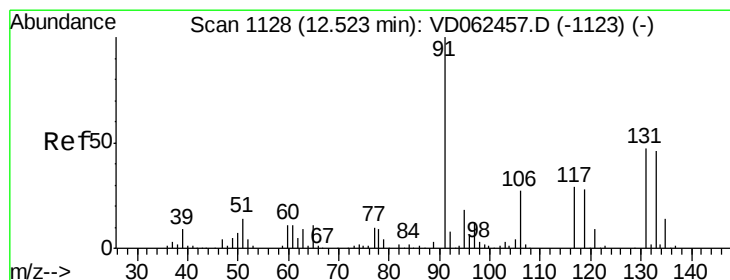
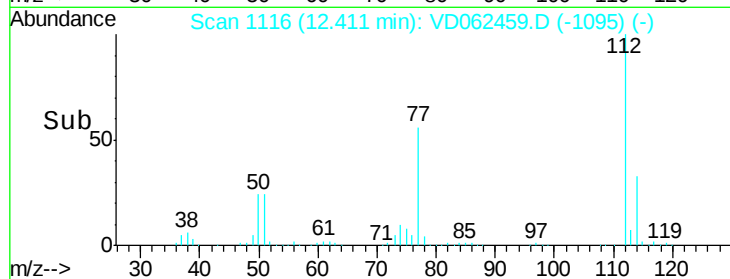
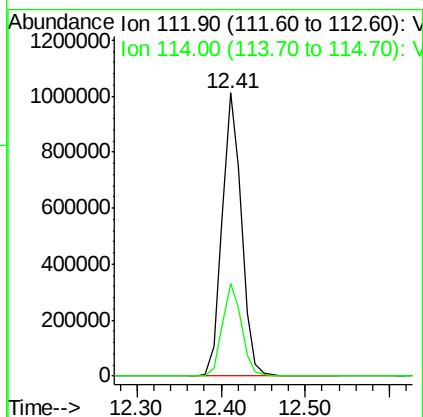
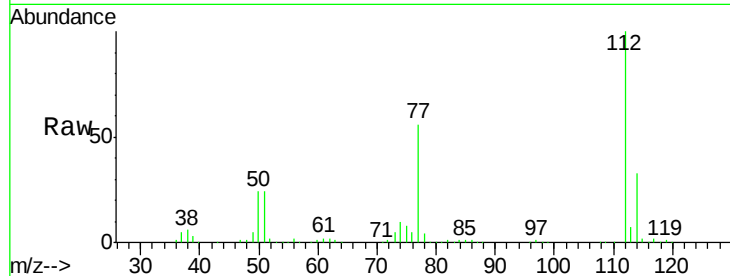
#65
Chlorobenzene
Concen: 101.707 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 1609056
Ion Ratio Lower Upper
112 100
114 32.6 25.8 38.8

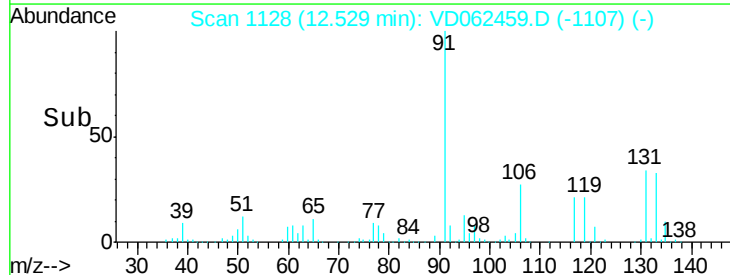
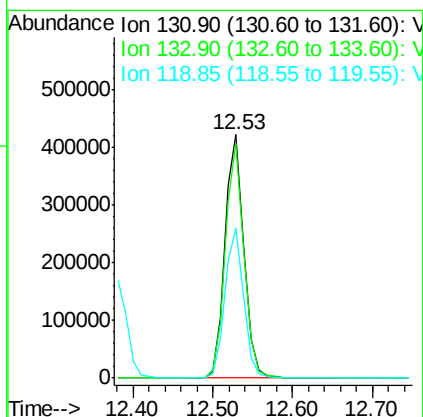
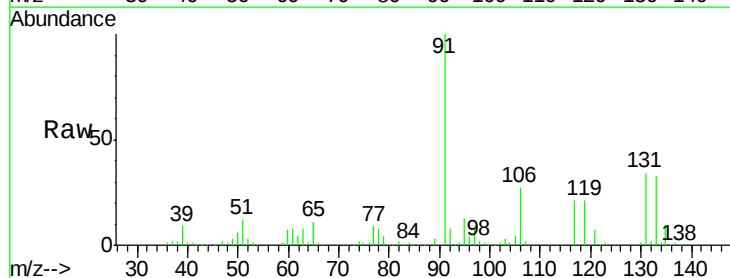
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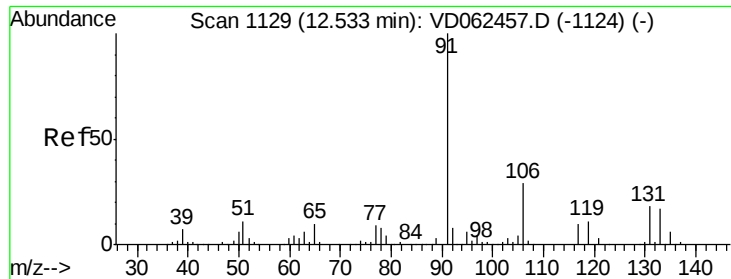
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#66
1,1,1,2-Tetrachloroethane
Concen: 102.407 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion:131 Resp: 705101
Ion Ratio Lower Upper
131 100
133 96.4 48.6 145.8
119 61.4 34.7 104.1





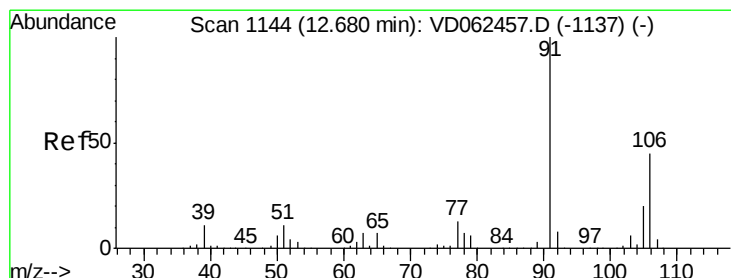
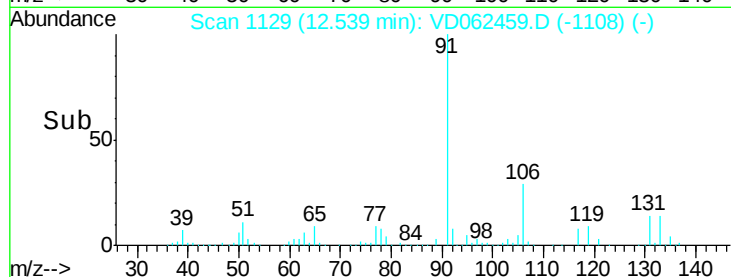
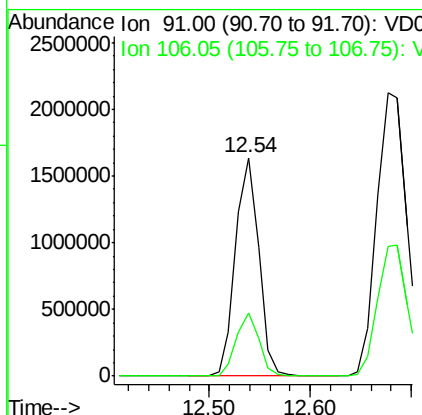
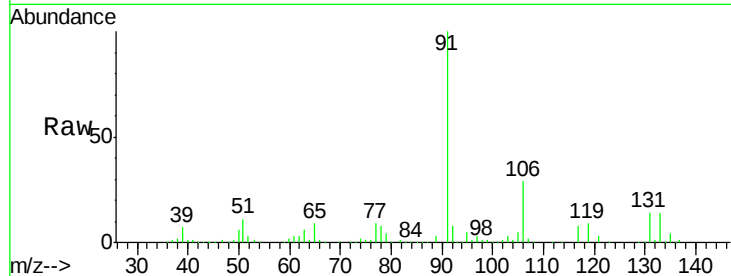
#67
Ethyl Benzene
Concen: 99.465 ug/l
RT: 12.54 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 2634407
Ion Ratio Lower Upper
91 100
106 28.7 24.7 37.1

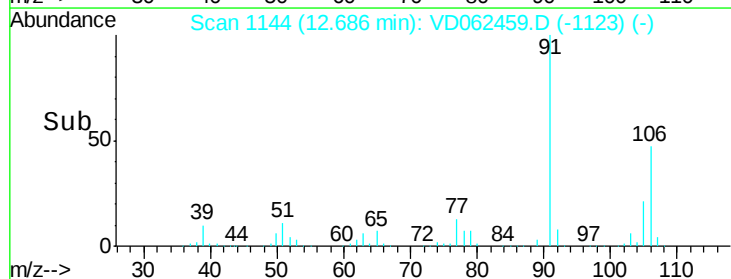
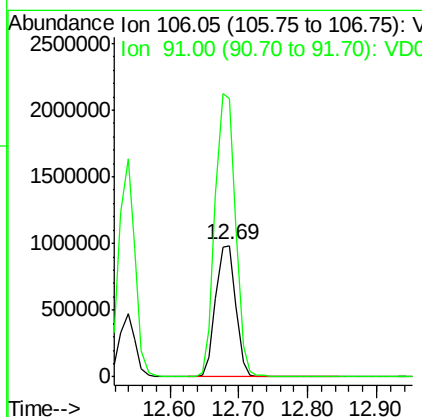
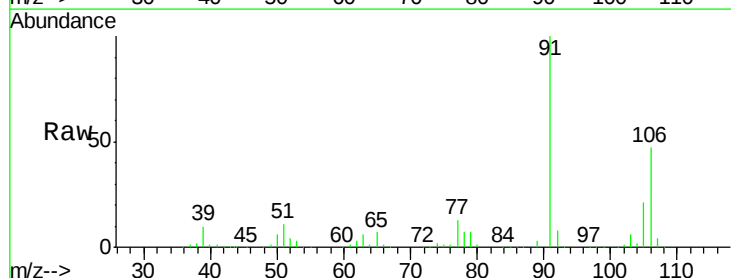
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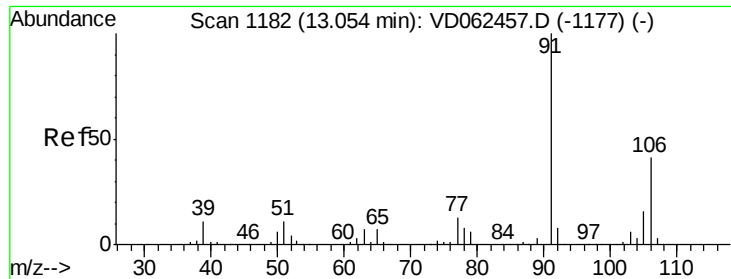
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#68
m/p-Xylenes
Concen: 207.325 ug/l
RT: 12.69 min Scan# 1144
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion:106 Resp: 1997819
Ion Ratio Lower Upper
106 100
91 211.5 164.0 246.0





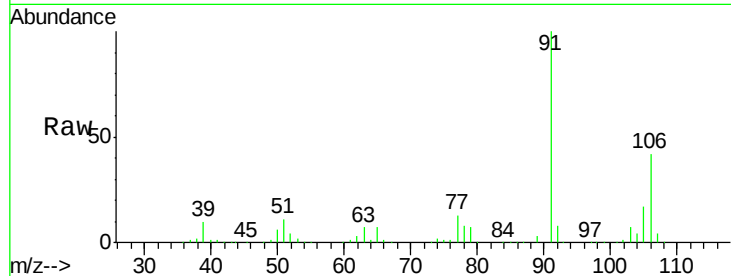
#69
o-Xylene
Concen: 106.558 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

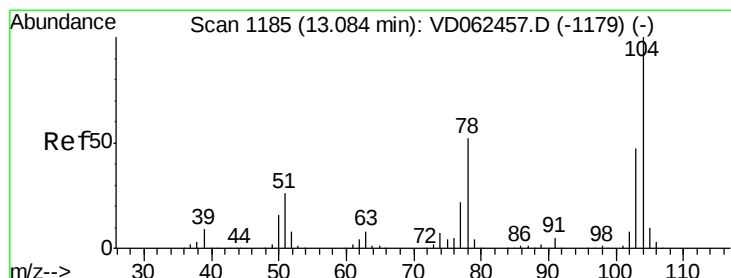
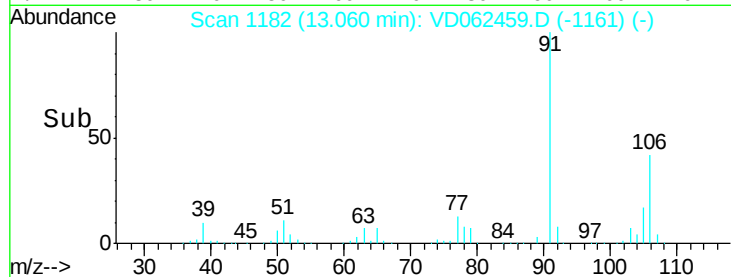
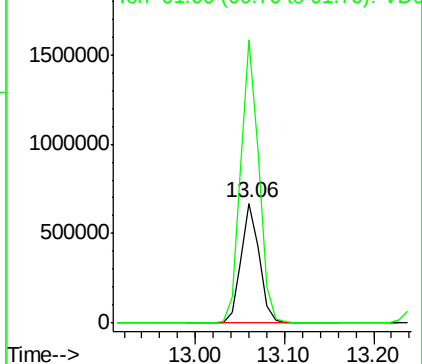
Tot Ion:106 Resp: 954614
Ion Ratio Lower Upper
106 100
91 235.7 106.7 319.9

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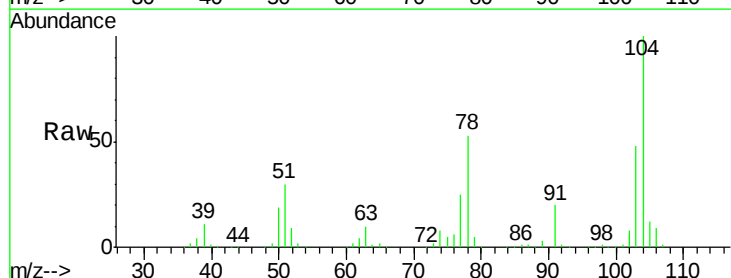


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

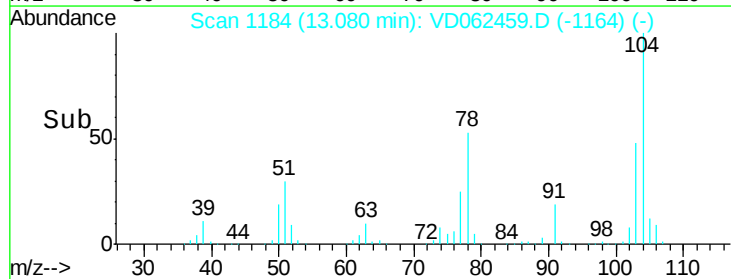
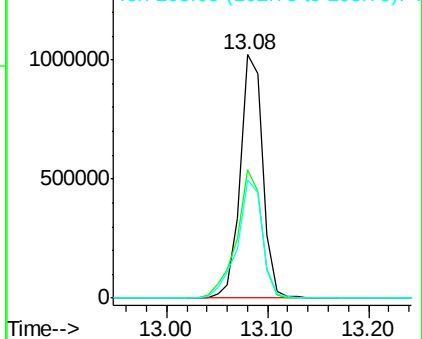


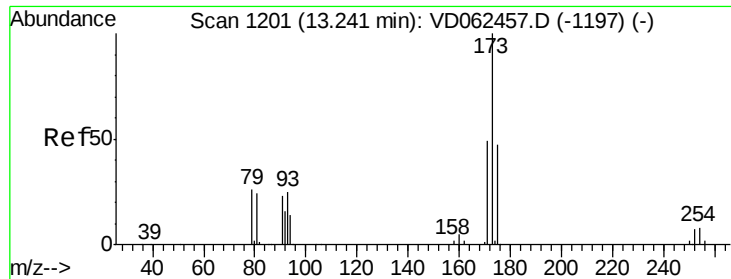
#70
Styrene
Concen: 104.579 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion:104 Resp: 1587092
Ion Ratio Lower Upper
104 100
78 52.7 35.4 53.2
103 48.4 37.5 56.3



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





#71

Bromoform

Concen: 104.095 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion:173 Resp: 498651

Ion Ratio Lower Upper

173 100

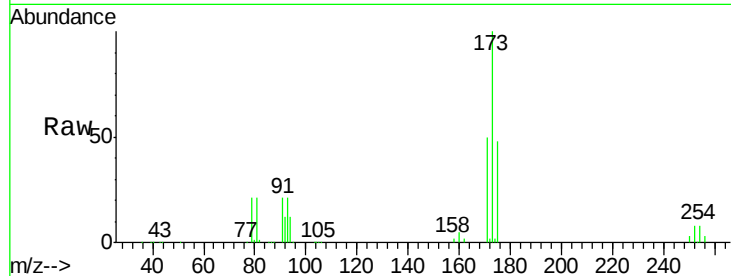
175 47.6 24.4 73.4

254 8.3 5.4 8.2#

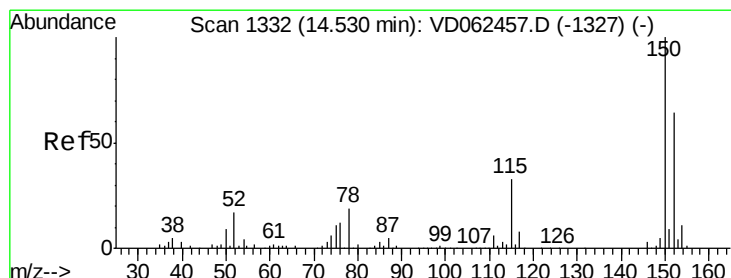
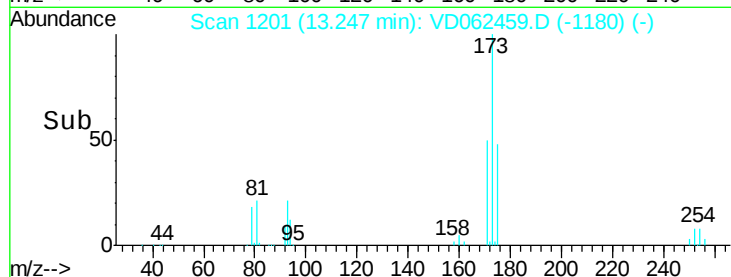
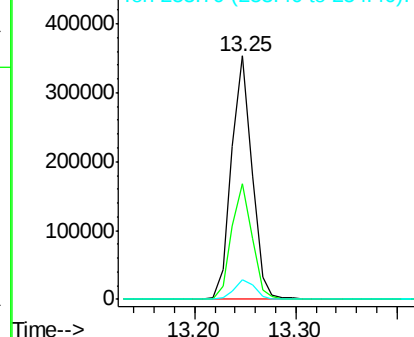
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Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

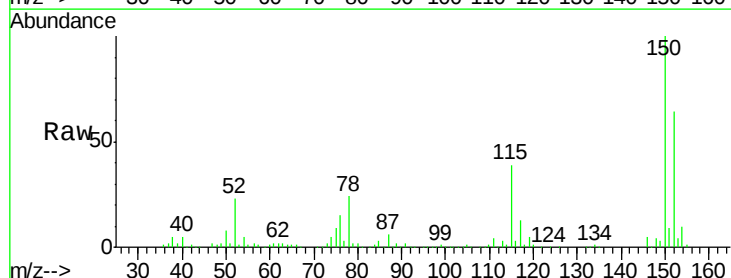
Tgt Ion:152 Resp: 415196

Ion Ratio Lower Upper

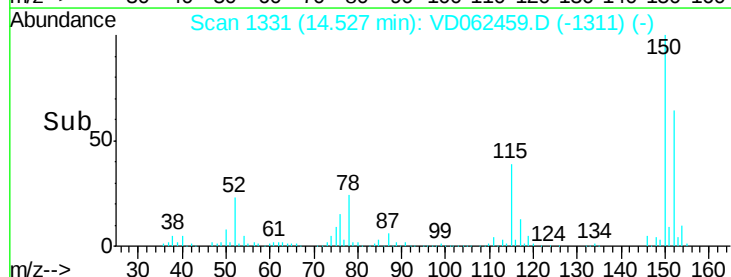
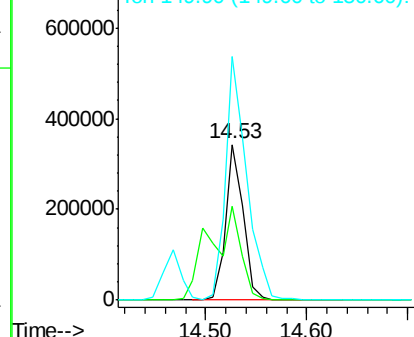
152 100

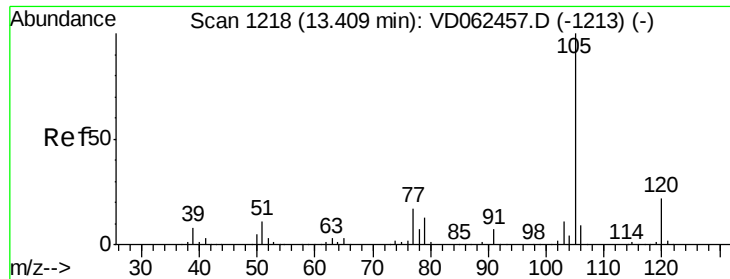
115 60.5 30.9 92.7

150 156.5 0.0 314.8



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





#73

Isopropylbenzene

Concen: 104.959 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 2612231

Ion Ratio Lower Upper

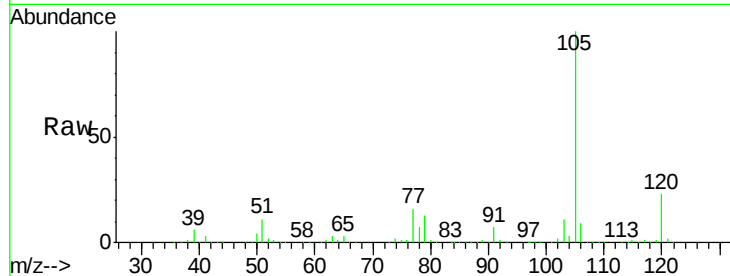
105 100

120 23.2 12.0 36.1

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

2000000

1500000

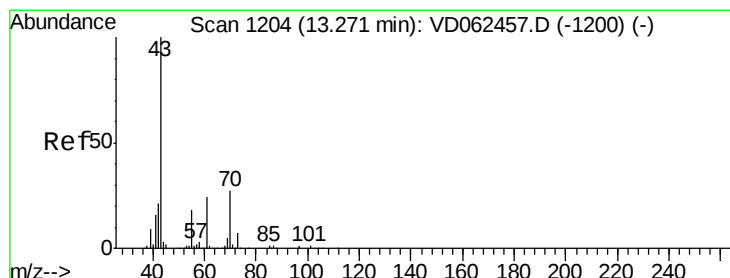
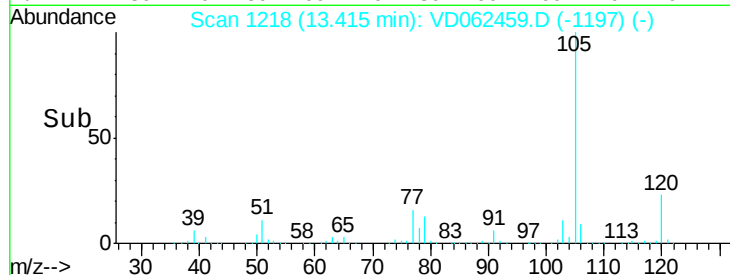
1000000

500000

0

Time-->

13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 103.962 ug/l

RT: 13.28 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion: 43 Resp: 678371

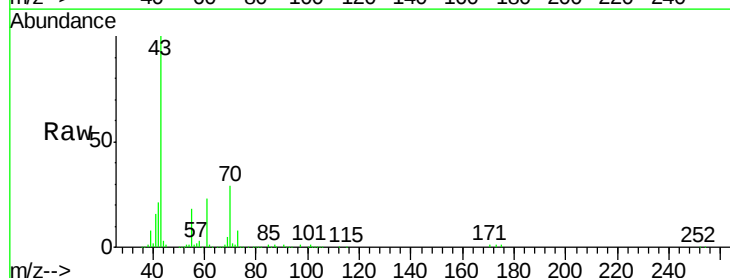
Ion Ratio Lower Upper

43 100

70 28.5 24.2 36.4

55 18.4 16.0 24.0

61 23.3 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

13.28

800000

600000

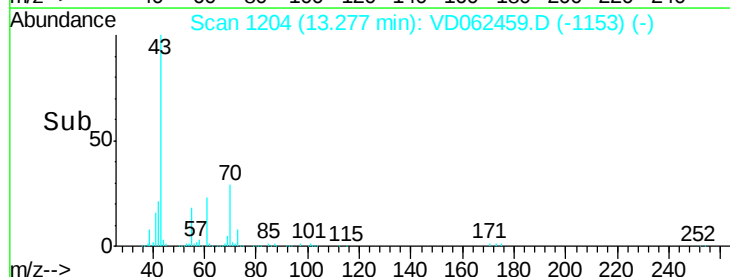
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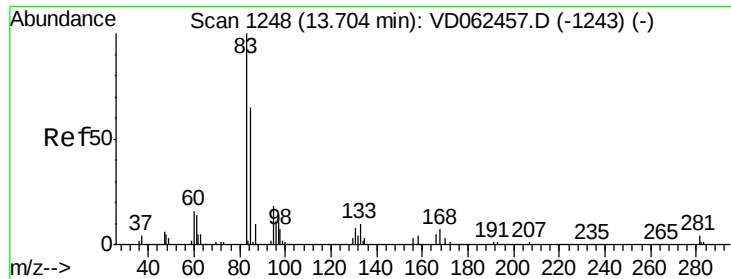
200000

0

Time-->

13.20 13.30 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: 99.740 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

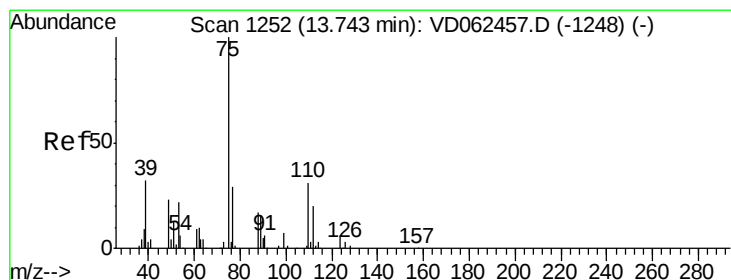
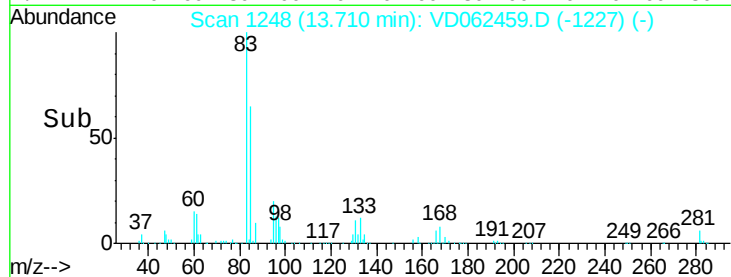
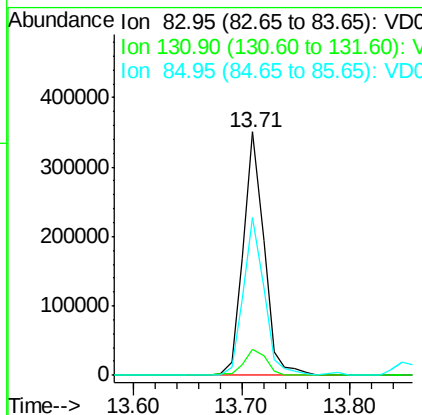
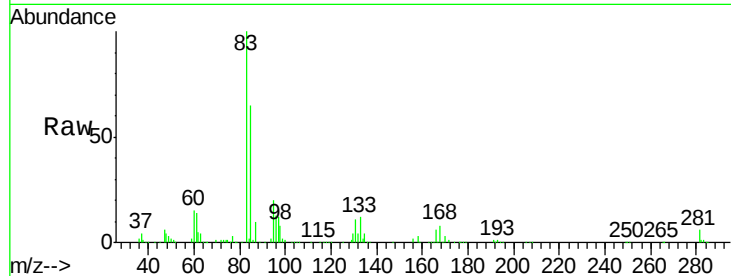
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	469940
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.0	14.9
85	64.9	32.6	97.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 102.992 ug/l

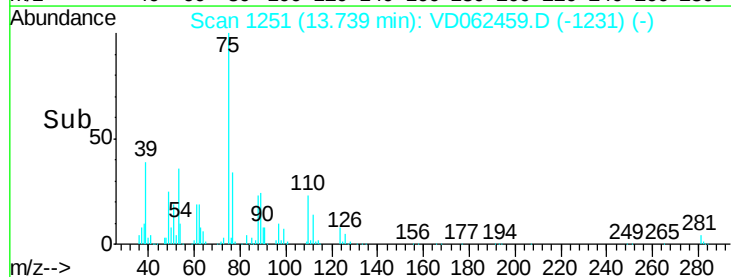
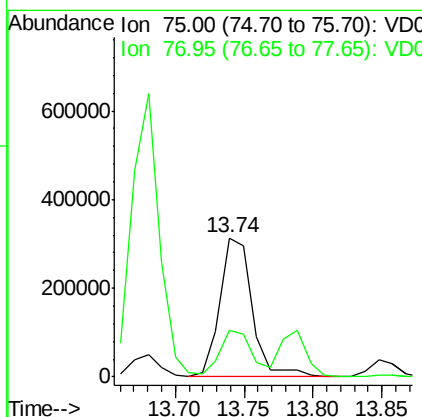
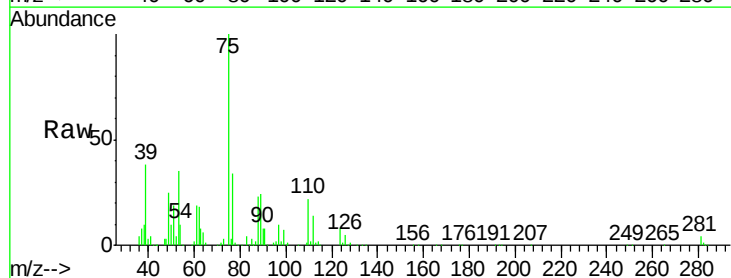
RT: 13.74 min Scan# 1251

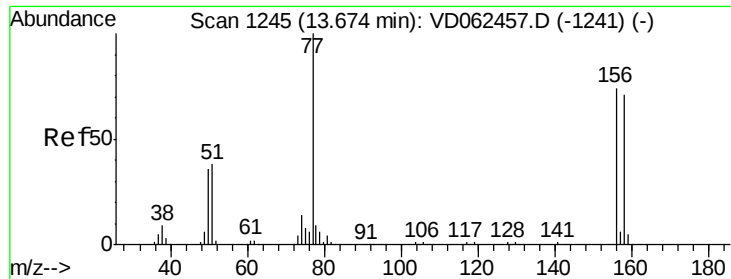
Delta R.T. -0.00 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion:	75	Resp:	508190
Ion Ratio	Lower	Upper	
75	100		
77	33.7	16.4	49.4





#77

Bromobenzene

Concen: 105.699 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

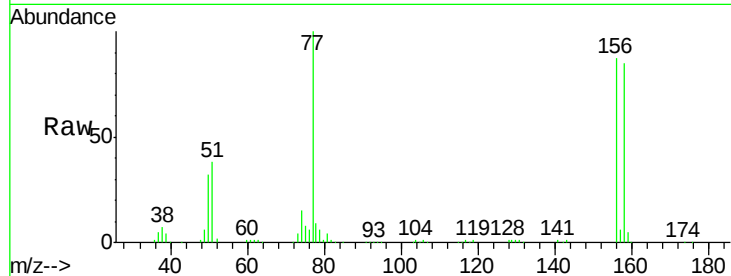
ClientSampleId :

VSTDIC100

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	115.5	53.1	159.4	
158	97.8	49.4	148.0	

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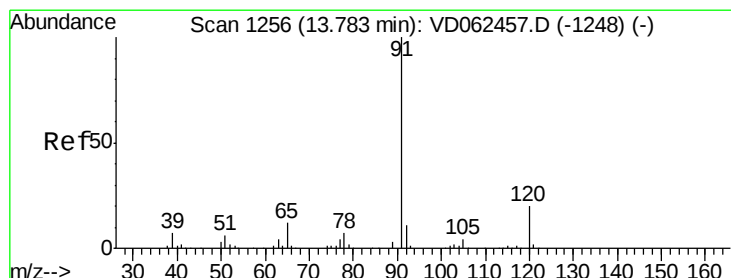
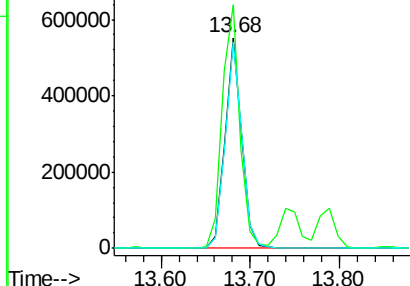
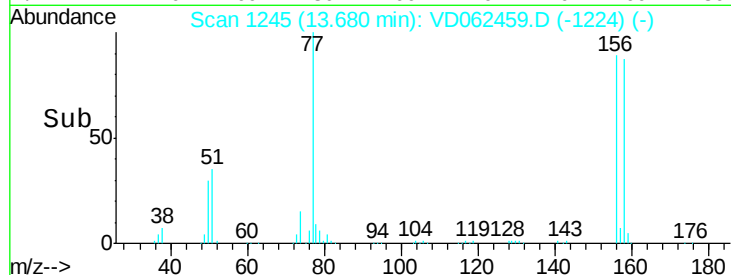
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Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 111.081 ug/l

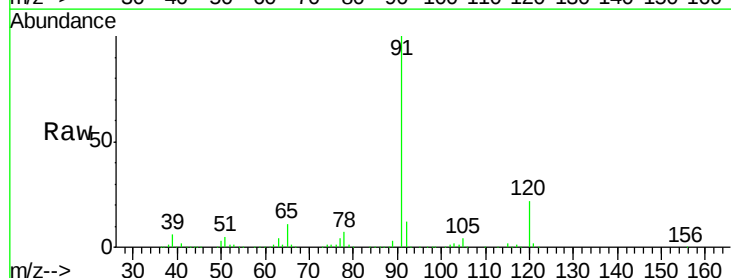
RT: 13.79 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VD062459.D

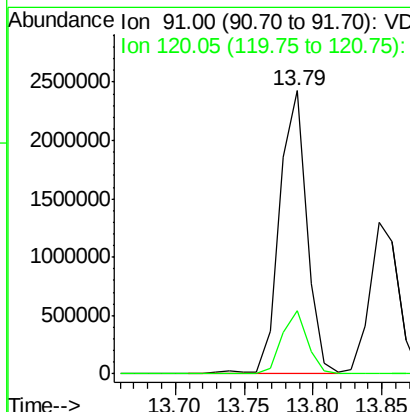
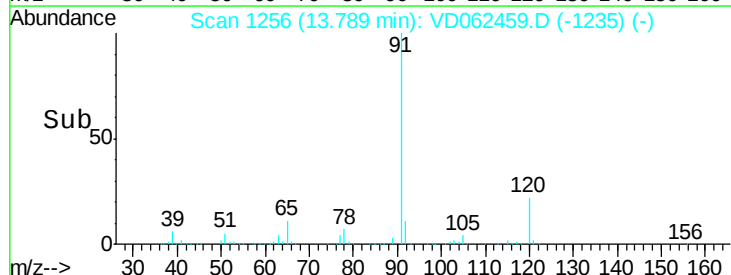
Acq: 20 May 2019 16:37

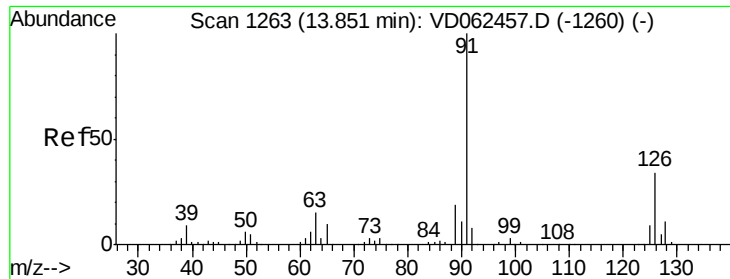
Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.2	11.1	33.1	



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 111.224 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1891173

Ion Ratio Lower Upper

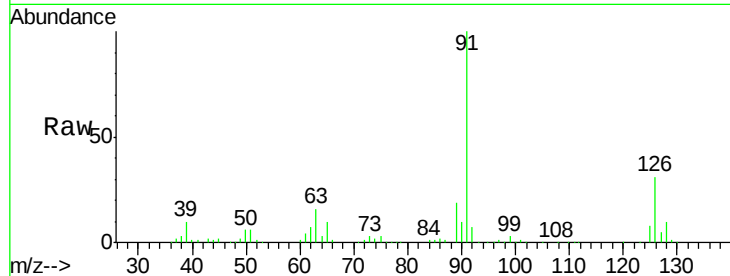
91 100

126 31.0 18.6 55.8

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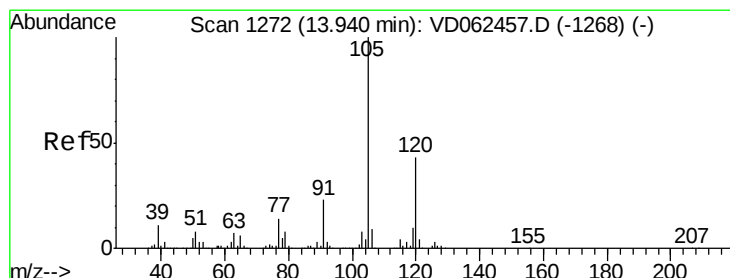
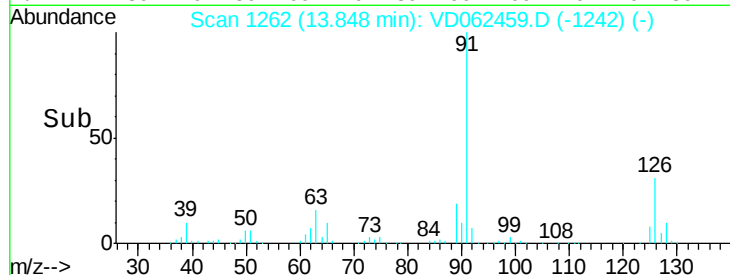
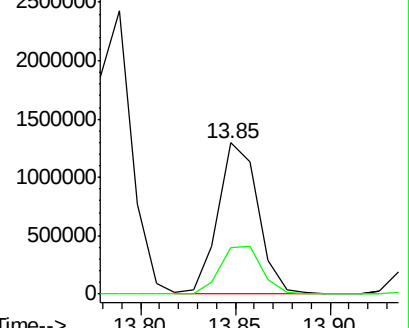
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Abundance Ion 91.00 (90.70 to 91.70): VD062459.D (-1260) (-)

Ion 125.95 (125.65 to 126.65): VD062459.D (-1260) (-)



#80

1,3,5-Trimethylbenzene

Concen: 113.351 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD062459.D

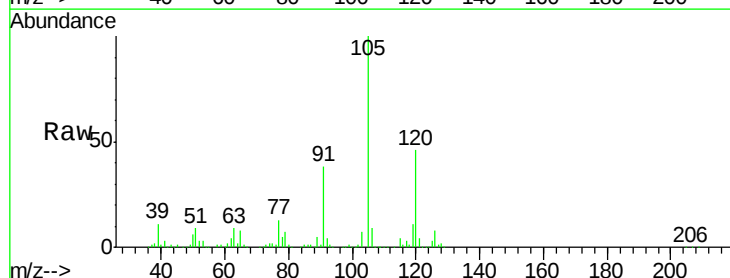
Acq: 20 May 2019 16:37

Tgt Ion:105 Resp: 2375589

Ion Ratio Lower Upper

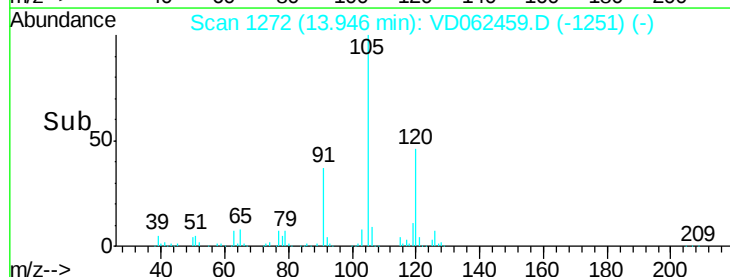
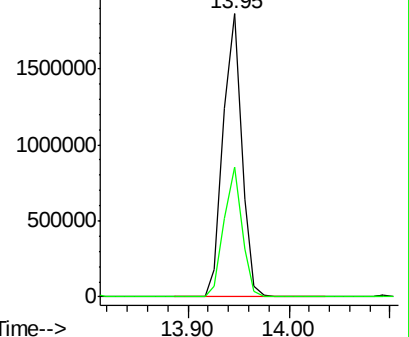
105 100

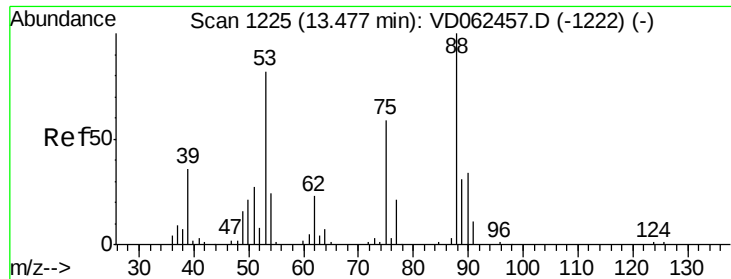
120 45.8 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): VD062459.D (-1251) (-)

Ion 120.05 (119.75 to 120.75): VD062459.D (-1251) (-)





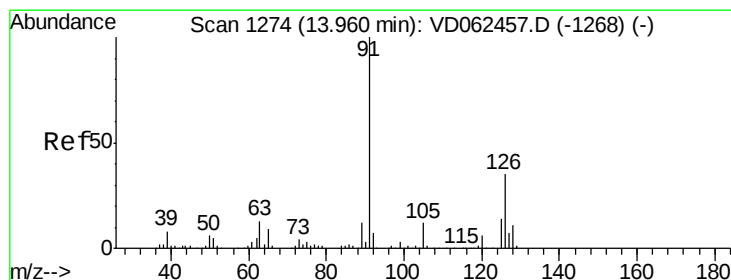
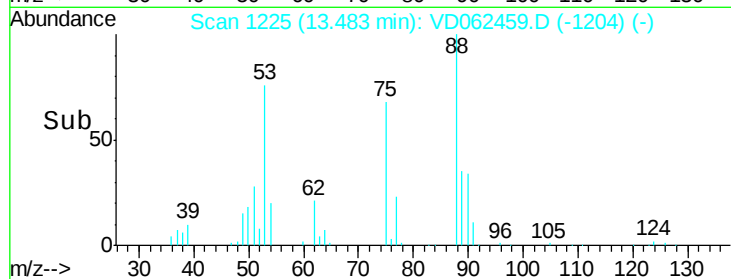
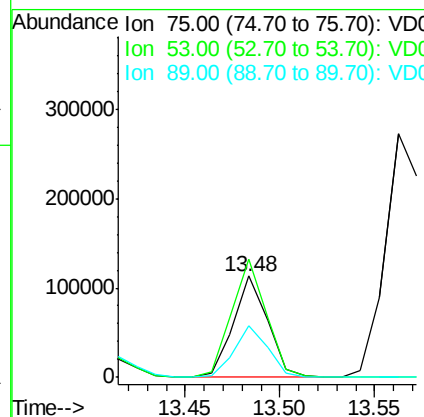
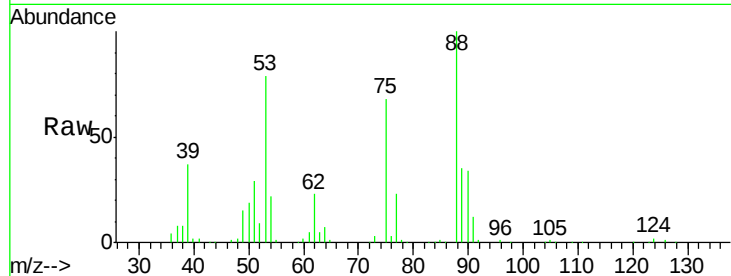
#81
trans-1,4-Dichloro-2-butene
Concen: 103.049 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
53	116.6	65.8	98.8#	
89	50.9	35.0	52.6	

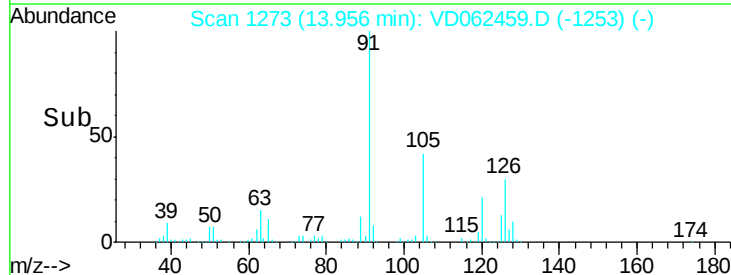
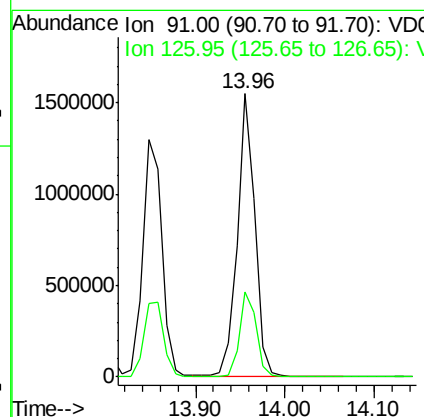
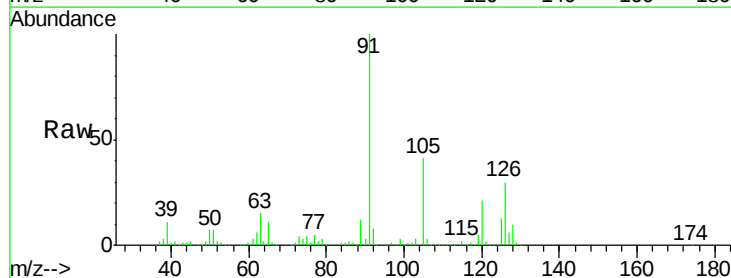
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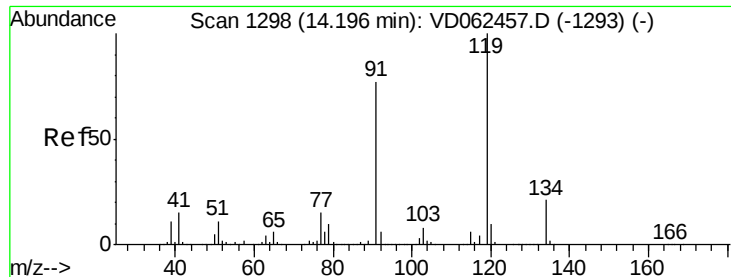
MMDadoda
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#82
4-Chlorotoluene
Concen: 107.510 ug/l
RT: 13.96 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
126	30.1	19.1	57.5	





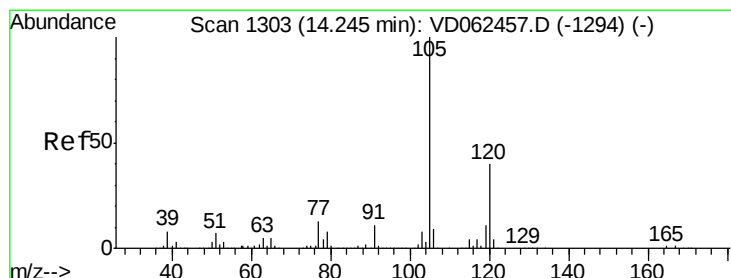
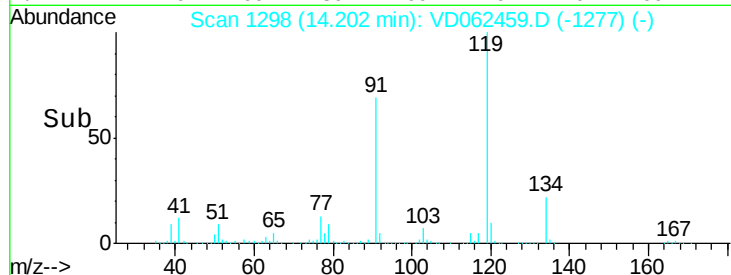
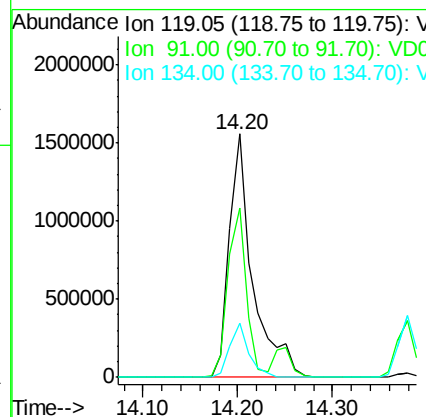
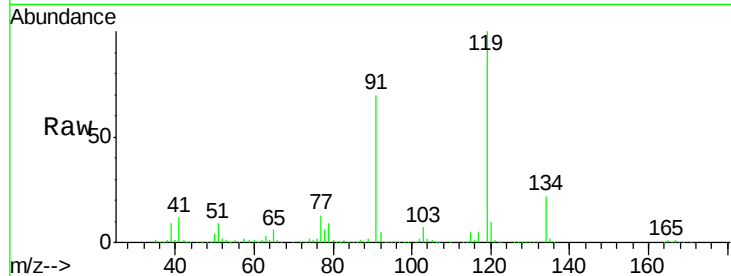
#83
 tert-Butylbenzene
 Concen: 113.518 ug/l
 RT: 14.20 min Scan# 1298
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tot Ion:119 Resp: 2674072
 Ion Ratio Lower Upper
 119 100
 91 69.7 34.2 102.6
 134 22.1 12.0 36.0

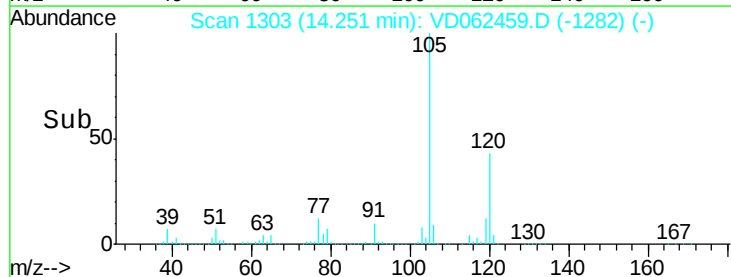
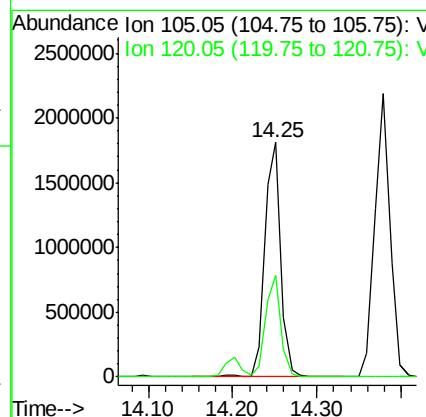
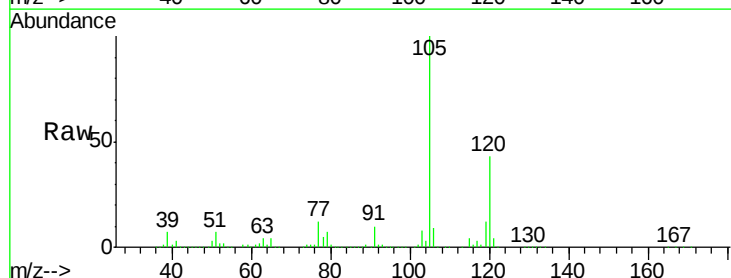
Manual Integrations
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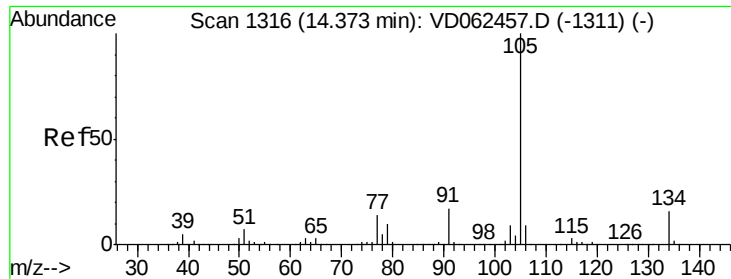
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#84
 1,2,4-Trimethylbenzene
 Concen: 114.933 ug/l
 RT: 14.25 min Scan# 1303
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion:105 Resp: 2417180
 Ion Ratio Lower Upper
 105 100
 120 43.1 23.1 69.2





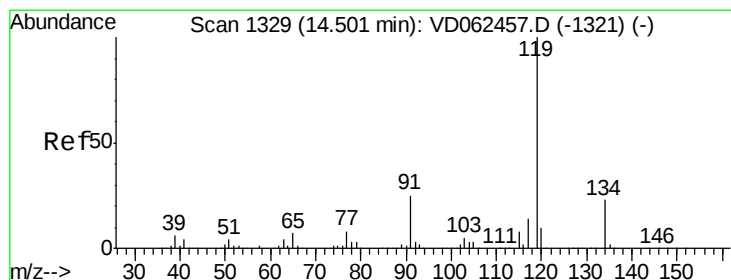
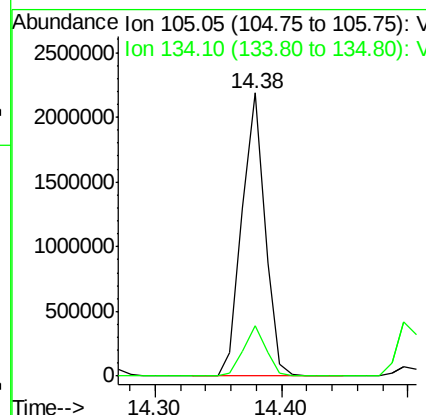
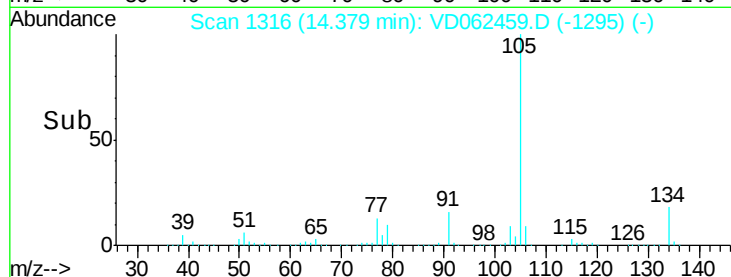
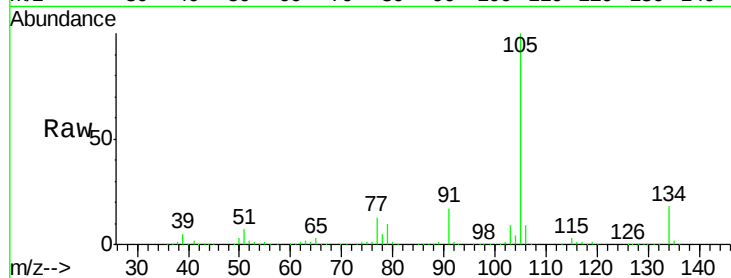
#85
 sec-Butylbenzene
 Concen: 106.694 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC100

Tot Ion:105 Resp: 2755626
 Ion Ratio Lower Upper
 105 100
 134 18.0 8.9 26.7

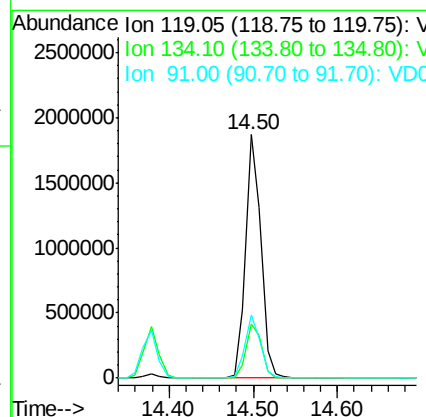
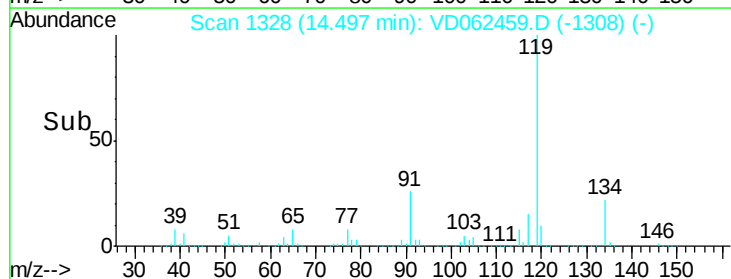
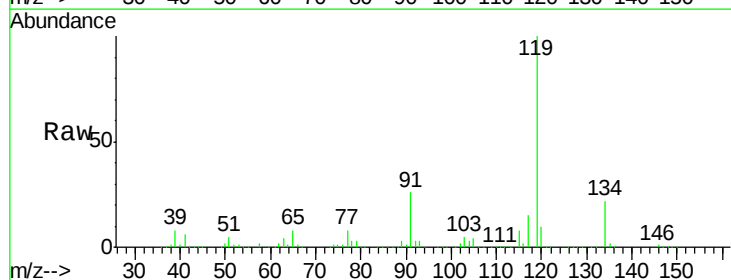
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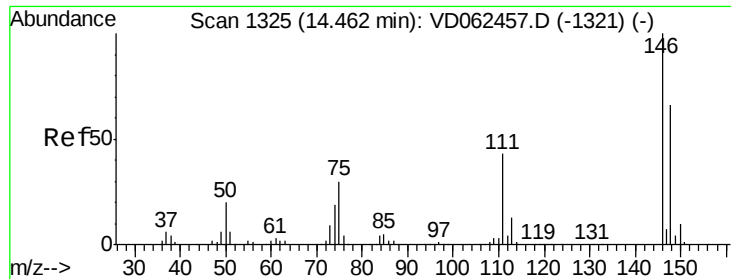
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 5/22/2019 4:49:06 AM



#86
 p-Isopropyltoluene
 Concen: 102.518 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. -0.00 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion:119 Resp: 2365630
 Ion Ratio Lower Upper
 119 100
 134 22.2 12.8 38.3
 91 26.2 10.7 32.1





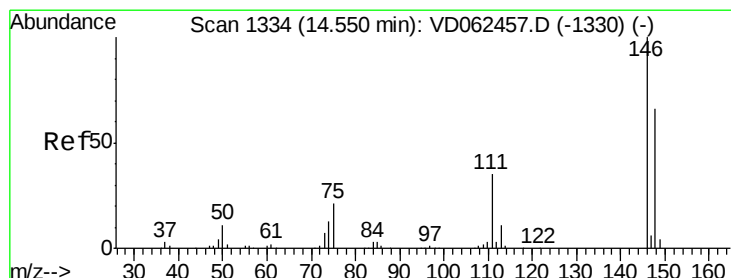
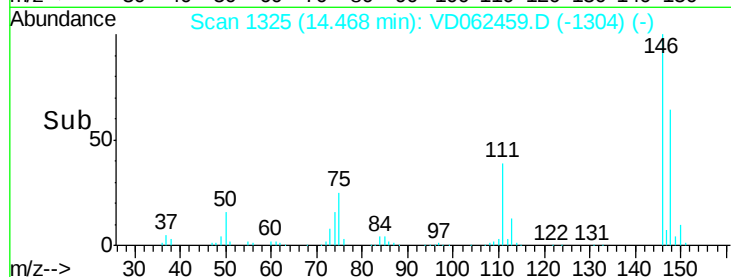
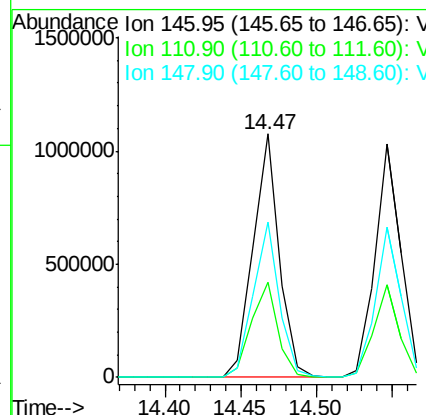
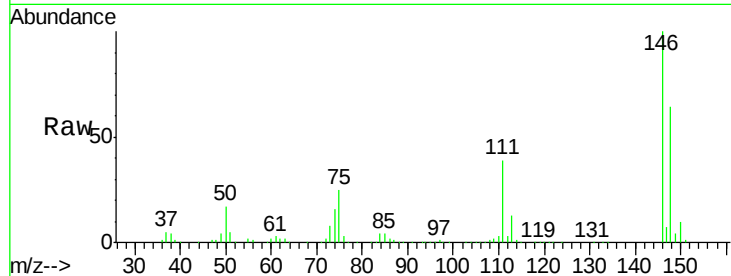
#87
 1,3-Dichlorobenzene
 Concen: 101.532 ug/l
 RT: 14.47 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	20.0	60.0
148	63.6	31.8	95.4

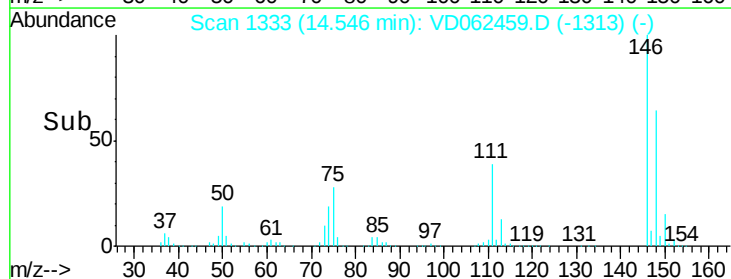
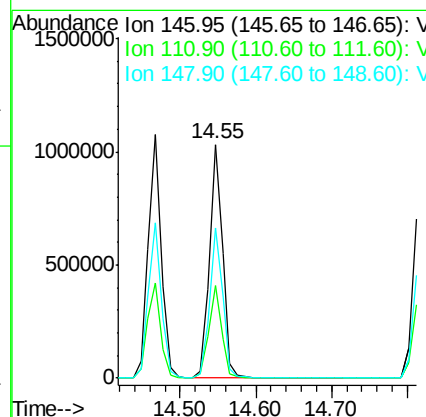
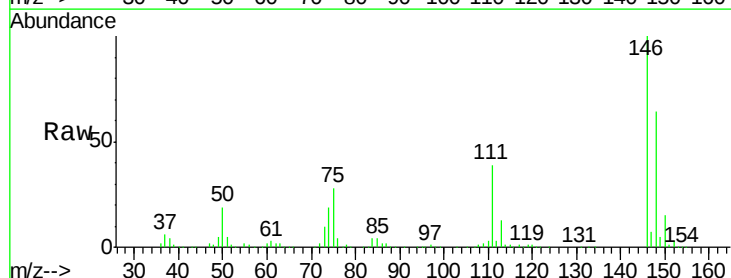
Manual Integrations
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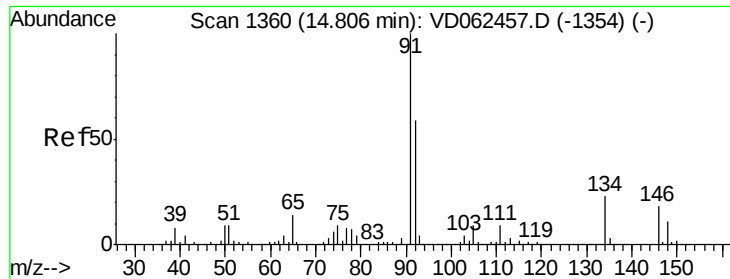
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#88
 1,4-Dichlorobenzene
 Concen: 98.882 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. -0.00 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.2	60.5
148	64.5	32.0	96.2





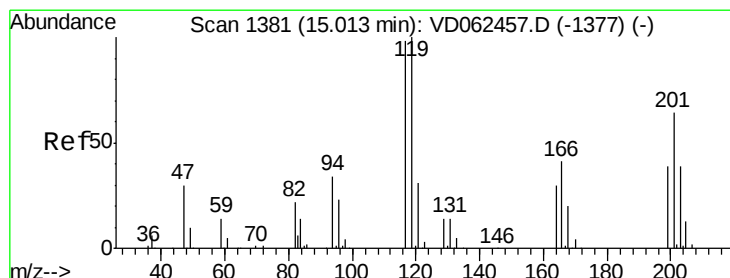
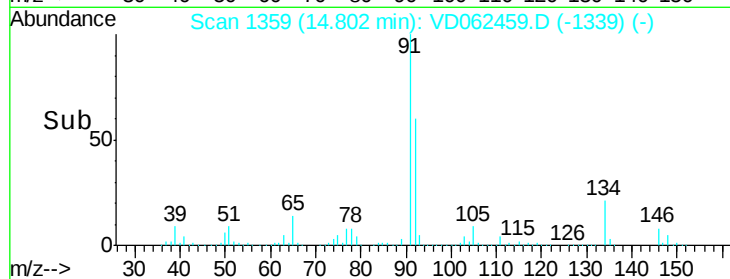
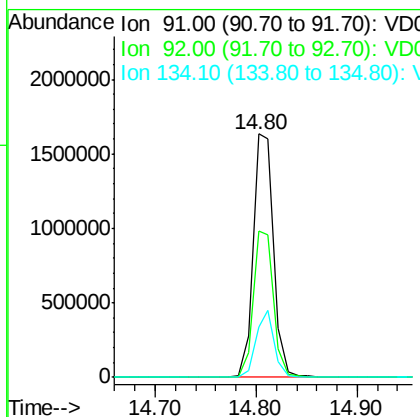
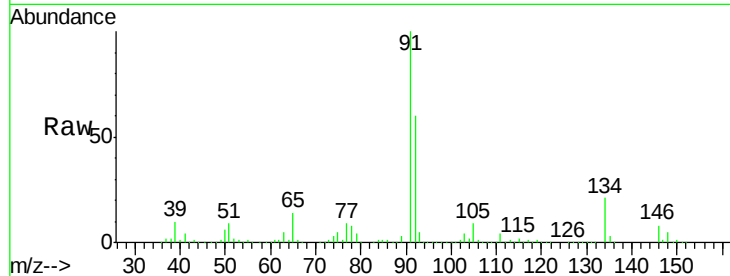
#89
n-Butylbenzene
Concen: 111.446 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 2308241
Ion Ratio Lower Upper
91 100
92 59.9 30.3 91.0
134 20.9 14.5 43.6

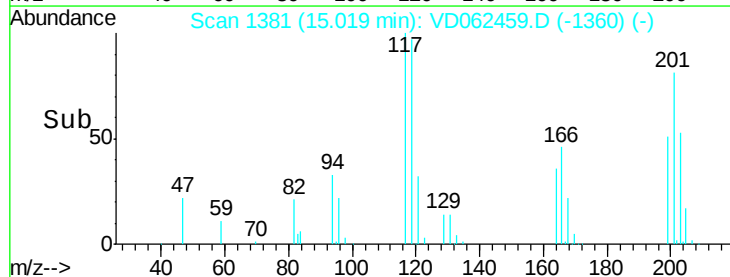
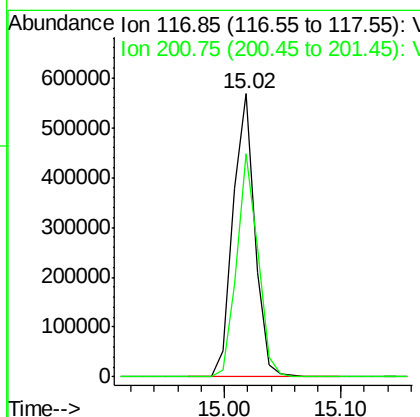
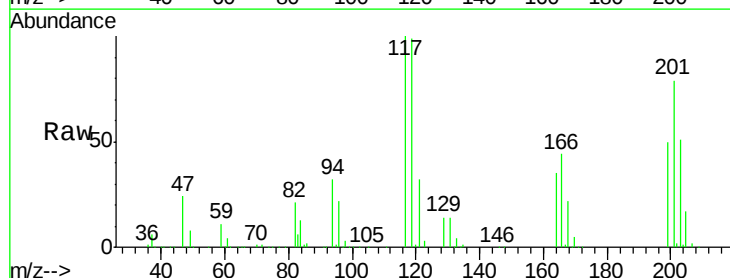
Manual Integrations
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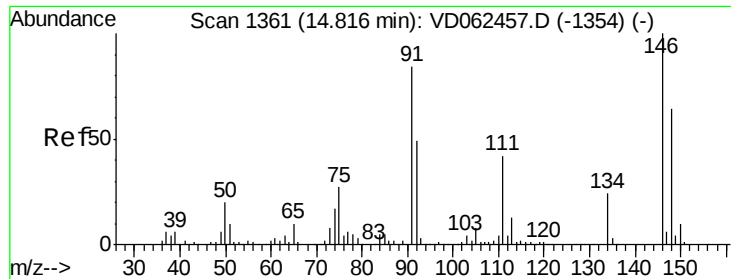
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#90
Hexachloroethane
Concen: 117.268 ug/l
RT: 15.02 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD062459.D
Acq: 20 May 2019 16:37

Tgt Ion: 117 Resp: 735890
Ion Ratio Lower Upper
117 100
201 78.9 30.2 90.6





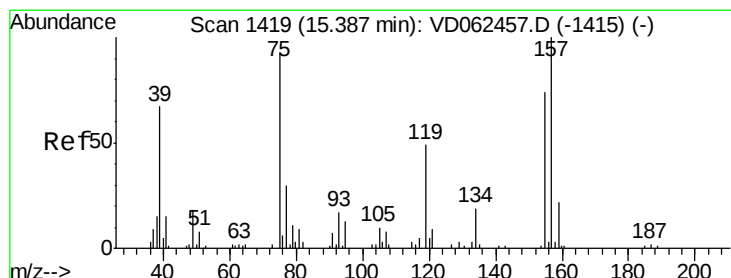
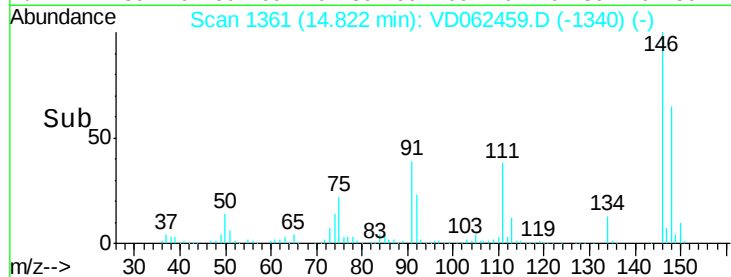
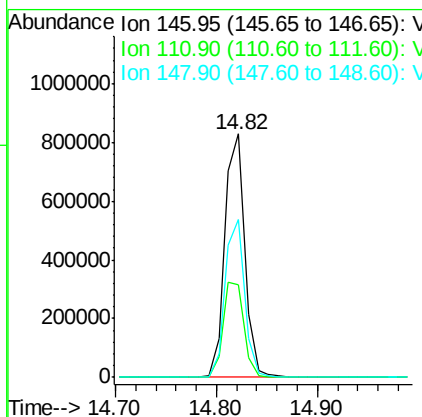
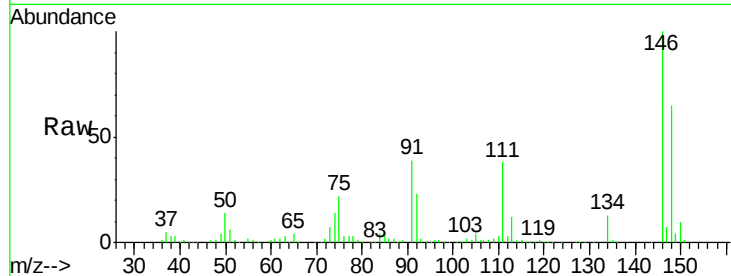
#91
 1,2-Dichlorobenzene
 Concen: 108.143 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC100

Tot Ion:146 Resp: 1133516
 Ion Ratio Lower Upper
 146 100
 111 38.2 20.0 59.9
 148 64.7 32.3 96.8

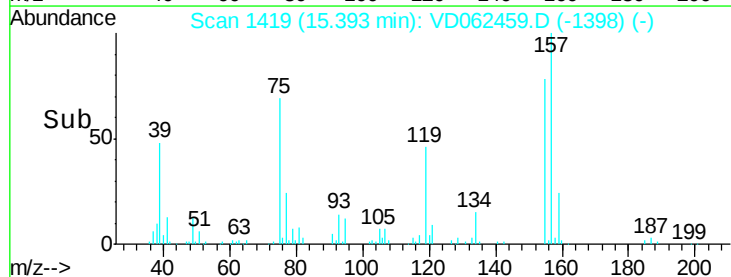
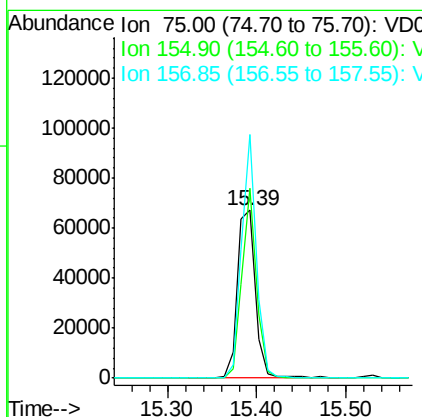
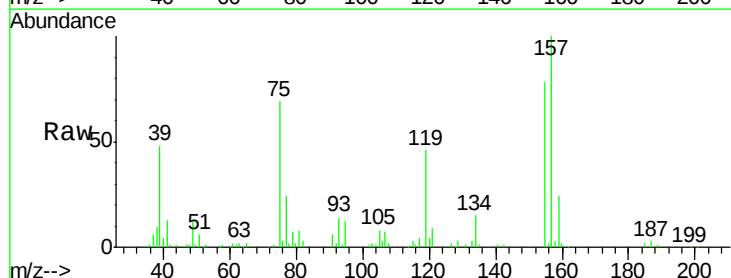
Manual Integrations
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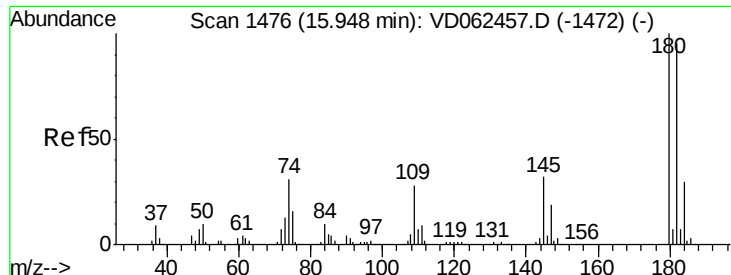
MMDadoda
 5/22/2019 4:49:06 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 124.219 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion: 75 Resp: 96074
 Ion Ratio Lower Upper
 75 100
 155 113.0 55.3 165.8
 157 145.3 67.8 203.2





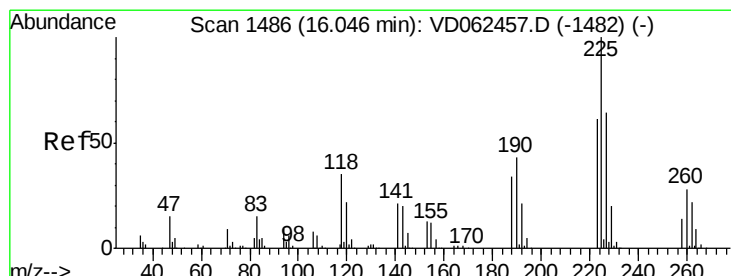
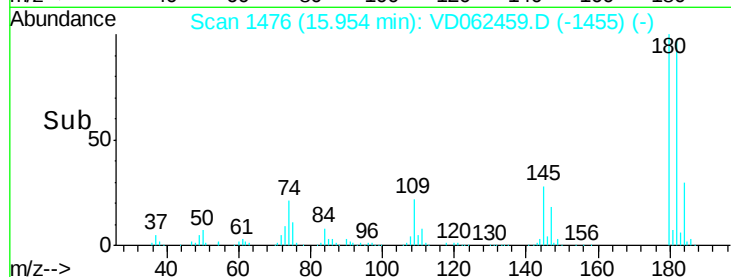
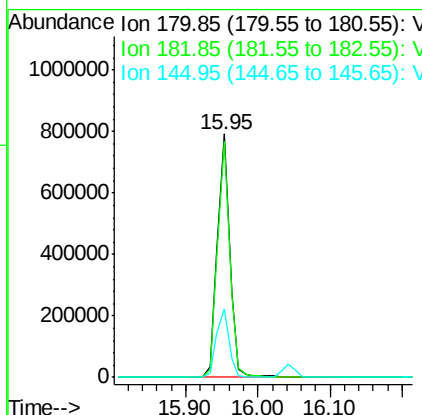
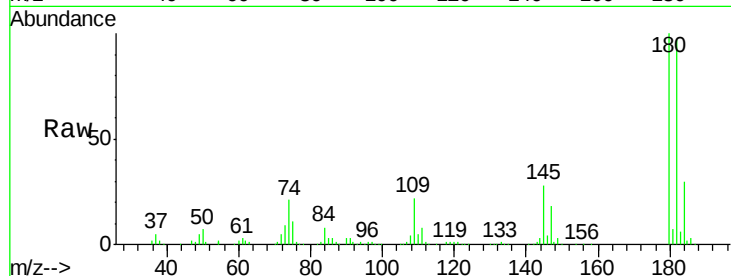
#93
 1,2,4-Trichlorobenzene
 Concen: 121.979 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Instrument :
 MSVOA_D
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	930602		
182	96.9	49.3	147.8	
145	28.1	16.2	48.6	

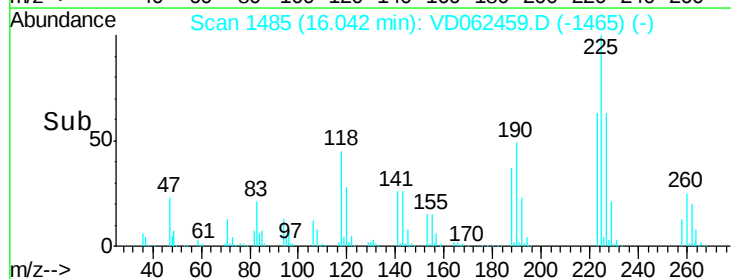
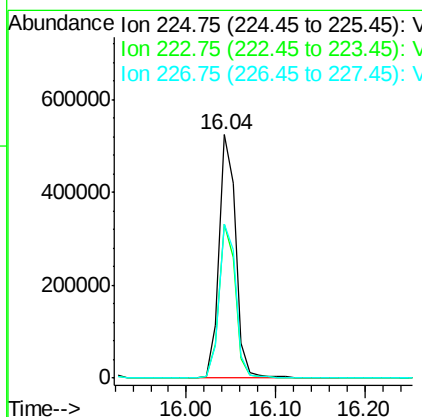
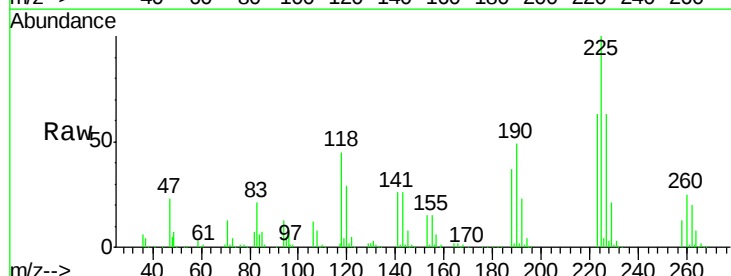
Manual Integrations
 APPROVED

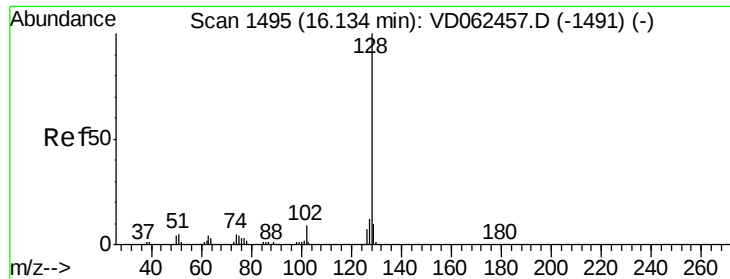
MMDadoda
 5/22/2019 4:49:06 AM



#94
 Hexachlorobutadiene
 Concen: 121.908 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VD062459.D
 Acq: 20 May 2019 16:37

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	691749		
223	63.0	30.6	92.0	
227	63.2	32.0	96.2	





#95

Naphthalene

Concen: 120.691 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Instrument :

MSVOA_D

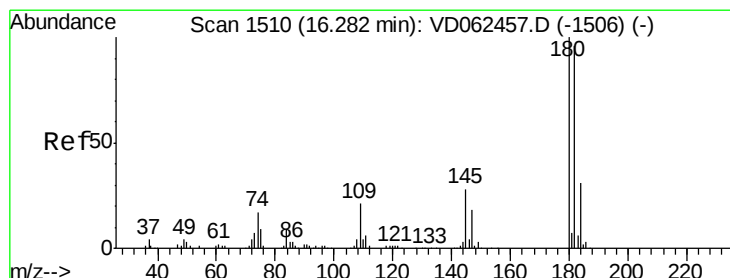
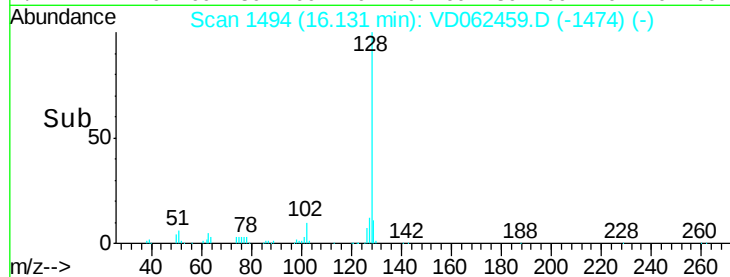
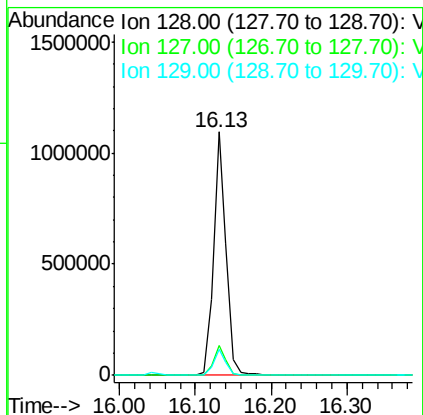
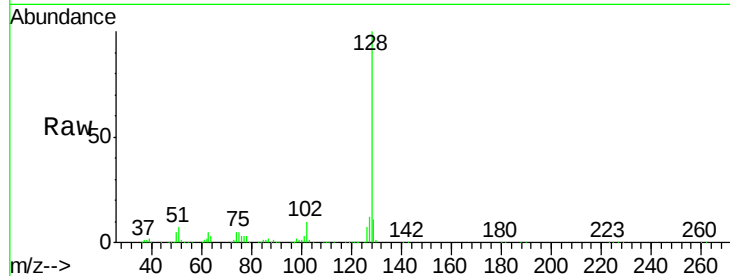
ClientSampleId :

VSTDICC100

Tot Ion:	128	Resp:	1285505
Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.8	14.8
129	10.8	8.8	13.2

Manual Integrations
APPROVED

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#96

1,2,3-Trichlorobenzene

Concen: 155.151 ug/l

RT: 16.28 min Scan# 1509

Delta R.T. -0.00 min

Lab File: VD062459.D

Acq: 20 May 2019 16:37

Tgt Ion:	180	Resp:	744227
Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.0	141.0
145	30.1	17.0	51.0

