

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052019\
 Data File : VD062458.D
 Acq On : 20 May 2019 16:10
 Operator : FY/SY
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

MMDadoda
 5/22/2019 4:49:04 AM

Quant Time: May 21 03:35:53 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	7.06	168	694237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	931772	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	782914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	439968	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	572216	88.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	177.38%	
35) Dibromofluoromethane	6.94	113	642864	83.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	166.30%	
50) Toluene-d8	10.43	98	1412321	75.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	151.54%	
62) 4-Bromofluorobenzene	13.57	95	594698	79.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	158.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	449275	67.664	ug/l	100
3) Chloromethane	1.75	50	290971	60.648	ug/l	93
4) Vinyl Chloride	1.86	62	333284	70.684	ug/l	94
5) Bromomethane	2.15	94	124793	112.952	ug/l	96
6) Chloroethane	2.26	64	172941	87.409	ug/l	99
7) Trichlorofluoromethane	2.54	101	732117	79.865	ug/l	99
8) Diethyl Ether	2.88	74	112207	63.468	ug/l	66
9) 1,1,2-Trichlorotrifluoroet	3.16	101	470749	67.886	ug/l	95
10) Methyl Iodide	3.31	142	752012	71.753	ug/l #	82
11) Tert butyl alcohol	4.10	59	140646	427.079	ug/l	96
12) 1,1-Dichloroethene	3.14	96	345053	65.185	ug/l	83
13) Acrolein	3.05	56	102171	299.958	ug/l	95
14) Allyl chloride	3.63	41	557005	72.370	ug/l #	77
15) Acrylonitrile	4.21	53	333174	384.903	ug/l #	85
16) Acetone	3.23	43	522033	385.841	ug/l #	85
17) Carbon Disulfide	3.38	76	1057024	69.415	ug/l	100
18) Methyl Acetate	3.66	43	188627	71.081	ug/l	94
19) Methyl tert-butyl Ether	4.26	73	949808	83.712	ug/l	93
20) Methylene Chloride	3.82	84	412381	72.998	ug/l	92
21) trans-1,2-Dichloroethene	4.23	96	449058	76.236	ug/l	91
22) Diisopropyl ether	5.14	45	1229980	75.098	ug/l	94
23) Vinyl Acetate	5.08	43	3882184	449.257	ug/l	98
24) 1,1-Dichloroethane	5.00	63	769648	77.896	ug/l	98
25) 2-Butanone	6.09	43	584290	395.922	ug/l	92
26) 2,2-Dichloropropane	6.05	77	768483	78.082	ug/l	92
27) cis-1,2-Dichloroethene	6.06	96	489382	74.225	ug/l	98
28) Bromochloromethane	6.45	49	275118	70.774	ug/l	90
29) Tetrahydrofuran	6.48	42	274967	404.378	ug/l	96
30) Chloroform	6.69	83	993458	83.430	ug/l	99
31) Cyclohexane	6.96	56	478718	70.721	ug/l	99
32) 1,1,1-Trichloroethane	6.88	97	960025	85.298	ug/l	99
36) 1,1-Dichloropropene	7.16	75	606633	79.406	ug/l	96
37) Ethyl Acetate	6.21	43	282910	87.321	ug/l #	91
38) Carbon Tetrachloride	7.13	117	981916m	92.862	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	549953	75.133	ug/l	97
40) Benzene	7.48	78	1297147	75.192	ug/l	100
41) Methacrylonitrile	6.47	41	362232	91.490	ug/l #	85
42) 1,2-Dichloroethane	7.59	62	719571	98.449	ug/l	91
43) Isopropyl Acetate	9.26	43	398059	86.631	ug/l #	93
44) Trichloroethene	8.56	130	539885	82.128	ug/l	93
45) 1,2-Dichloropropane	8.95	63	339692	79.607	ug/l	97
46) Dibromomethane	9.08	93	305699	88.099	ug/l	95
47) Bromodichloromethane	9.39	83	777754	91.634	ug/l	97
48) Methyl methacrylate	9.14	41	235621	83.251	ug/l #	82
49) 1,4-Dioxane	9.10	88	47161	1544.389	ug/l #	89
51) 4-Methyl-2-Pentanone	10.32	43	1258748	426.172	ug/l	92
52) Toluene	10.53	92	876055	78.050	ug/l	96
53) t-1,3-Dichloropropene	10.93	75	647769	88.304	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	666562	83.292	ug/l #	85
55) 1,1,2-Trichloroethane	11.21	97	329975	83.087	ug/l	96
56) Ethyl methacrylate	11.06	69	342608	83.018	ug/l #	81
57) 1,3-Dichloropropane	11.42	76	474934	79.157	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.88	63	884561	392.395	ug/l	94
59) 2-Hexanone	11.55	43	932696	428.446	ug/l	93
60) Dibromochloromethane	11.70	129	630649	91.885	ug/l	99
61) 1,2-Dibromoethane	11.82	107	399787	82.800	ug/l	97
64) Tetrachloroethene	11.27	164	488775	79.838	ug/l	94
65) Chlorobenzene	12.41	112	1119513	76.774	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	524499	82.646	ug/l	95
67) Ethyl Benzene	12.53	91	1817517	74.450	ug/l	95
68) m/p-Xylenes	12.68	106	1268380	142.806	ug/l	92
69) o-Xylene	13.06	106	634378	76.826	ug/l	82
70) Styrene	13.08	104	1024618	73.250	ug/l	96
71) Bromoform	13.24	173	371737	84.192	ug/l	96
73) Isopropylbenzene	13.41	105	1830379	69.403	ug/l	95
74) N-amyl acetate	13.27	43	495038	71.595	ug/l	94
75) 1,1,2,2-Tetrachloroethane	13.70	83	372125	74.533	ug/l	99
76) 1,2,3-Trichloropropane	13.74	75	383654	73.375	ug/l	99
77) Bromobenzene	13.68	156	550882	74.617	ug/l	84
78) n-propylbenzene	13.78	91	2061519	65.528	ug/l	96
79) 2-Chlorotoluene	13.85	91	1359553	75.456	ug/l	94
80) 1,3,5-Trimethylbenzene	13.94	105	1676689	75.498	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.48	75	109538	74.209	ug/l #	67
82) 4-Chlorotoluene	13.96	91	1540156	72.640	ug/l	93
83) tert-Butylbenzene	14.20	119	1784698	71.497	ug/l	92
84) 1,2,4-Trimethylbenzene	14.25	105	1572734	70.571	ug/l	91
85) sec-Butylbenzene	14.37	105	1944288	71.041	ug/l	96
86) p-Isopropyltoluene	14.50	119	1648004	67.397	ug/l	94
87) 1,3-Dichlorobenzene	14.46	146	951654	70.563	ug/l	99
88) 1,4-Dichlorobenzene	14.54	146	982456	74.139	ug/l	99
89) n-Butylbenzene	14.81	91	1553885	70.800	ug/l	95
90) Hexachloroethane	15.01	117	511237	76.882	ug/l	97
91) 1,2-Dichlorobenzene	14.82	146	820650	73.886	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.39	75	74883	91.369	ug/l	78

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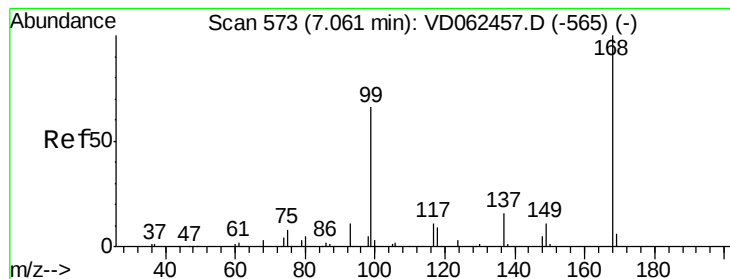
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	682865	84.467	ug/l	98
94) Hexachlorobutadiene	16.05	225	481834	80.133	ug/l	97
95) Naphthalene	16.14	128	993441	88.019	ug/l	99
96) 1,2,3-Trichlorobenzene	16.28	180	584116	114.916	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion:168 Resp: 694237

Ion Ratio Lower Upper

168 100

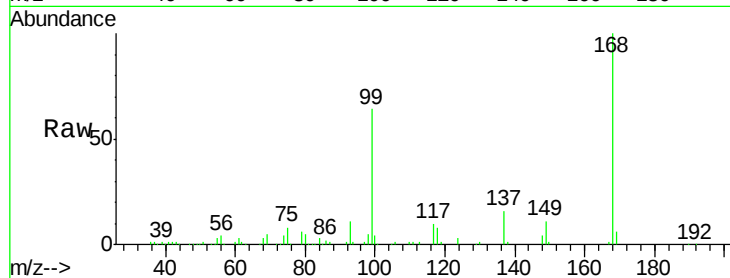
99 63.8 46.5 69.7

Manual Integrations

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5/22/2019 4:49:04 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

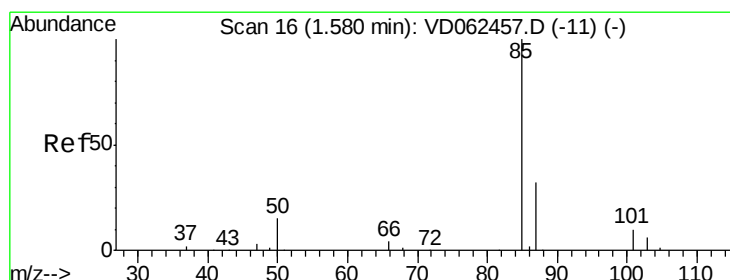
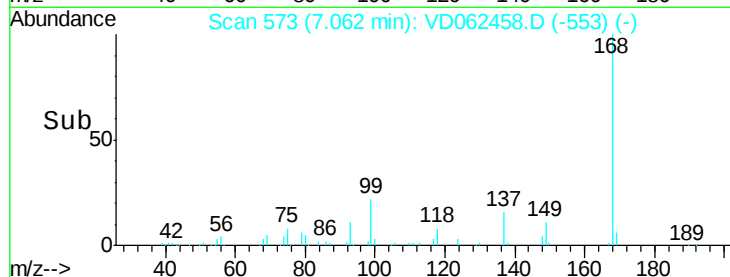
100000

50000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#2

Dichlorodifluoromethane

Concen: 67.664 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.00 min

Lab File: VD062458.D

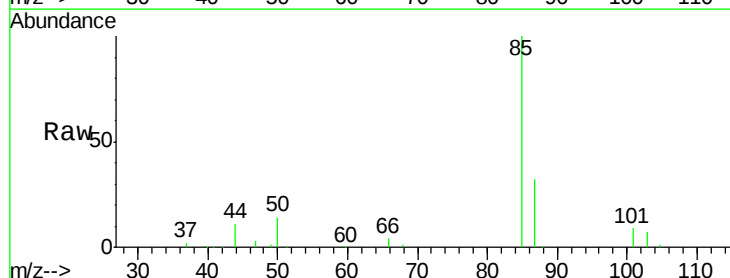
Acq: 20 May 2019 16:10

Tgt Ion: 85 Resp: 449275

Ion Ratio Lower Upper

85 100

87 32.4 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

250000

200000

150000

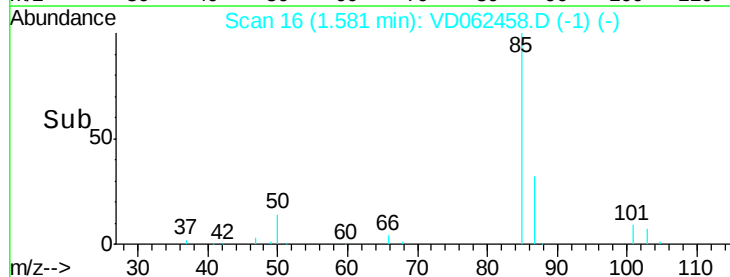
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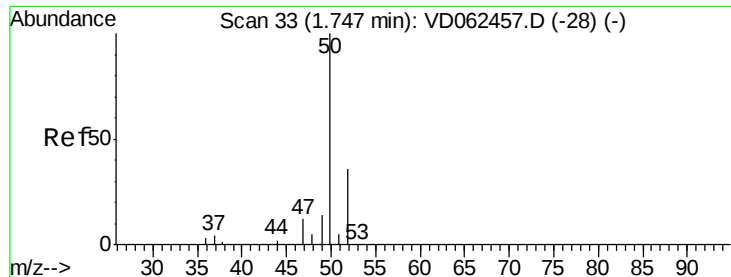
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 60.648 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion: 50 Resp: 290971

Ion Ratio Lower Upper

50 100

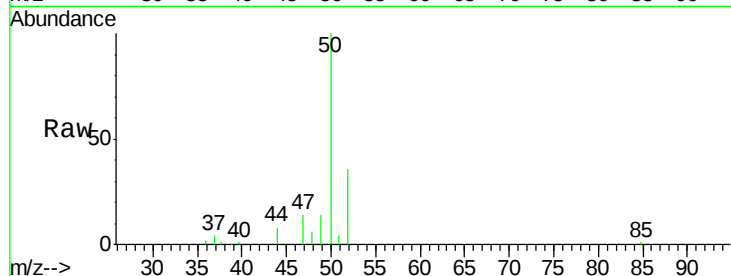
52 35.6 25.2 37.8

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.75

100000

80000

60000

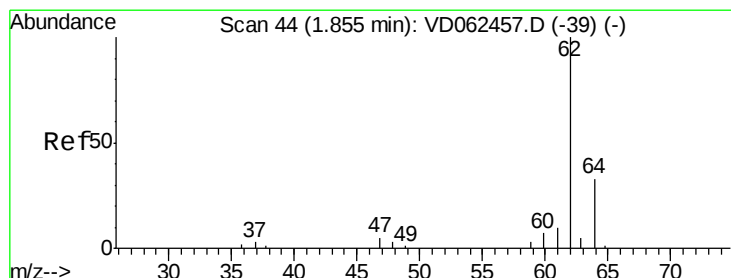
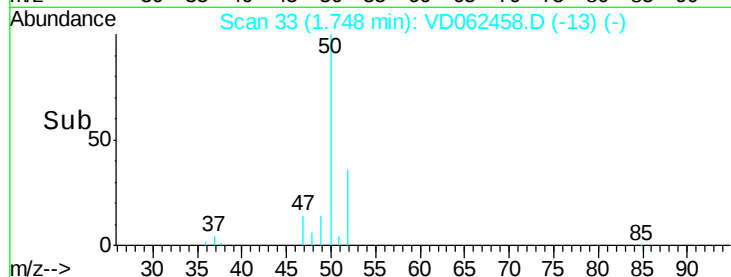
40000

20000

0

1.60 1.70 1.80 1.90

Time-->



#4

Vinyl Chloride

Concen: 70.684 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.00 min

Lab File: VD062458.D

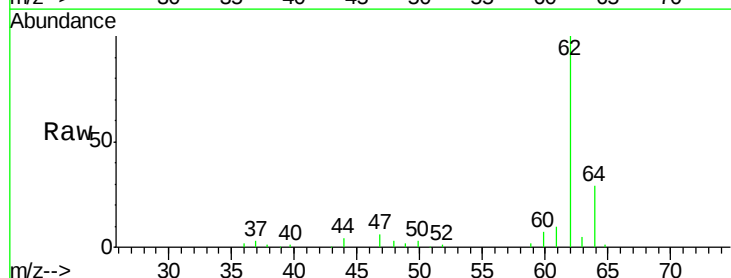
Acq: 20 May 2019 16:10

Tgt Ion: 62 Resp: 333284

Ion Ratio Lower Upper

62 100

64 29.5 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.86

200000

150000

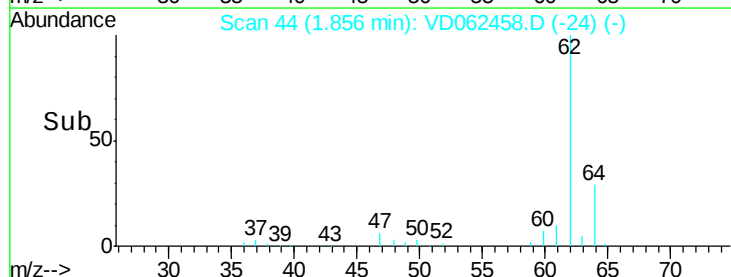
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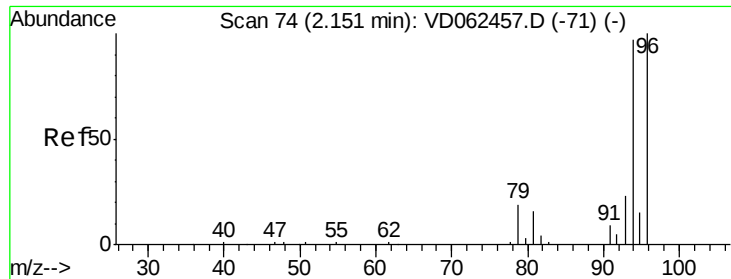
50000

0

1.80 1.90 2.00

Time-->





#5

Bromomethane

Concen: 112.952 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

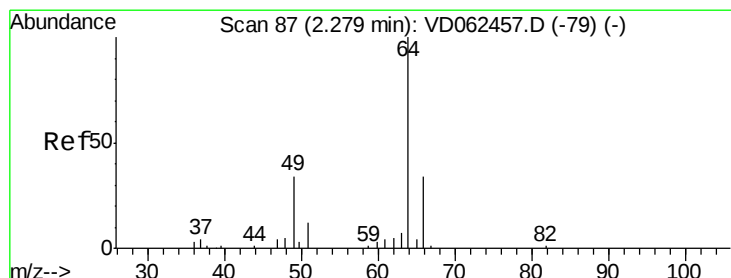
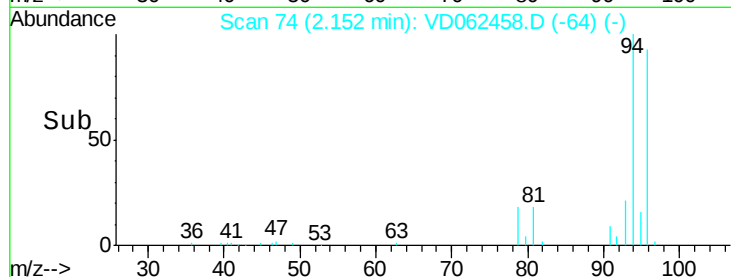
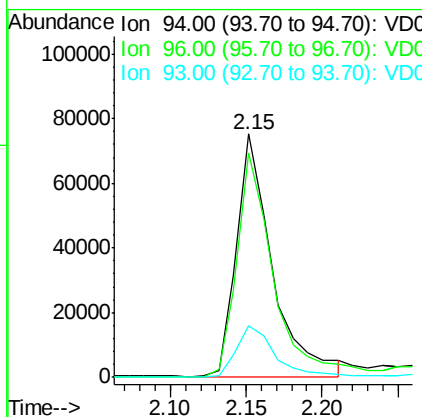
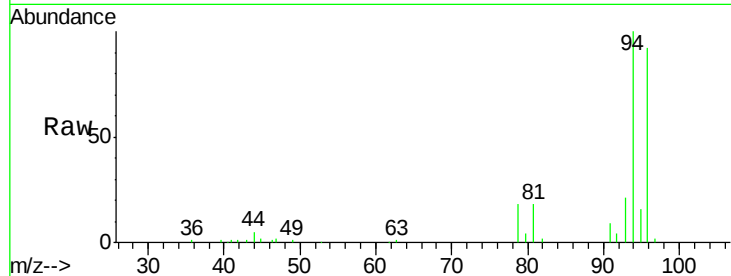
ClientSampleId :

VSTDIC075

Tot Ion:	94	Resp:	124793
Ion	Ratio	Lower	Upper
94	100		
96	92.3	76.6	115.0
93	21.1	18.5	27.7

Manual Integrations
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5/22/2019 4:49:04 AM



#6

Chloroethane

Concen: 87.409 ug/l

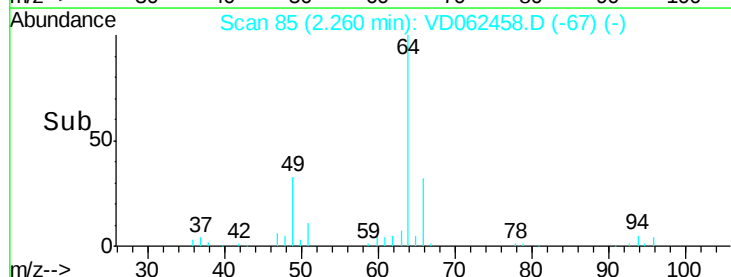
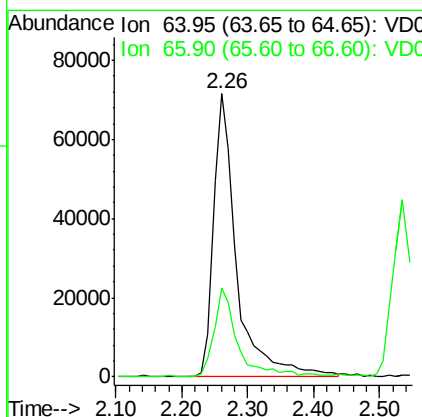
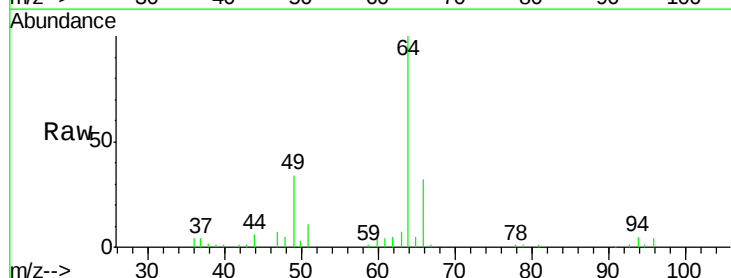
RT: 2.26 min Scan# 85

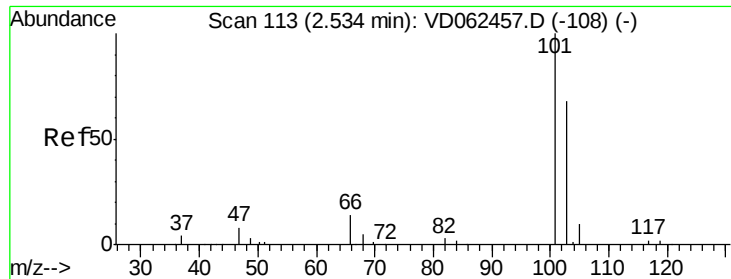
Delta R.T. -0.02 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion:	64	Resp:	172941
Ion	Ratio	Lower	Upper
64	100		
66	31.5	25.6	38.4





#7

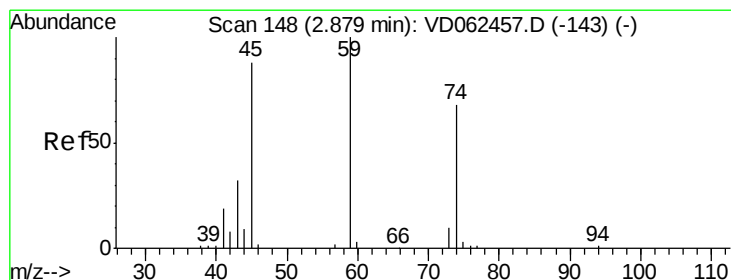
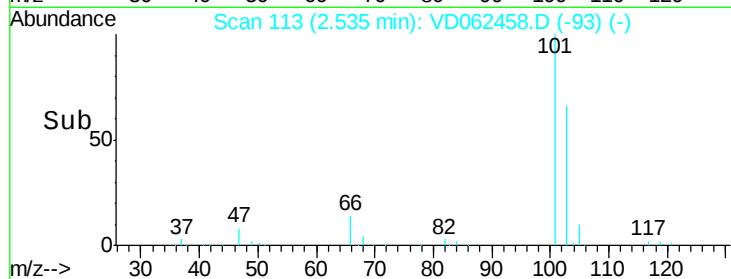
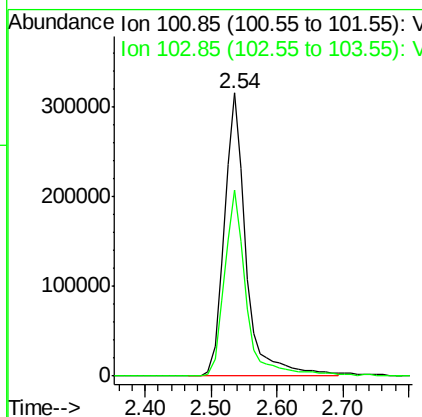
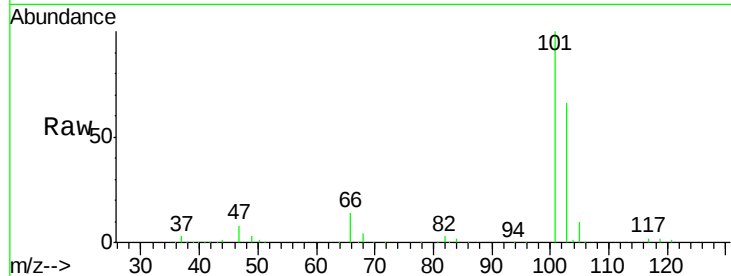
Trichlorofluoromethane
 Concen: 79.865 ug/l
 RT: 2.54 min Scan# 113
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.0	53.6	80.4

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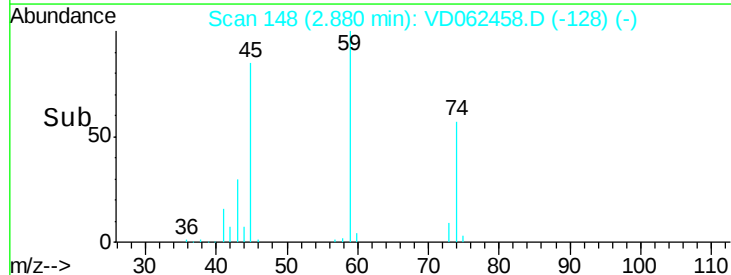
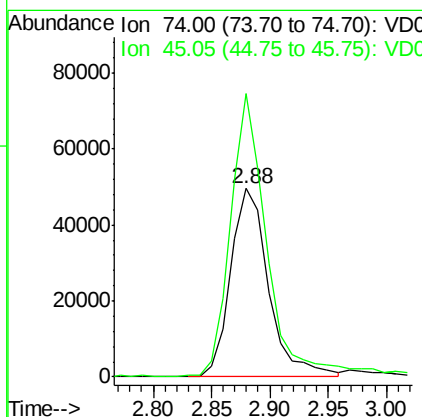
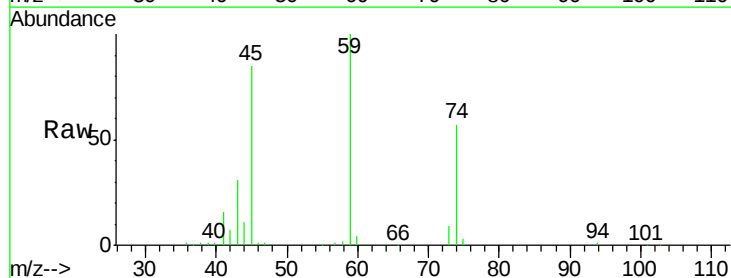
MMDadoda
 5/22/2019 4:49:04 AM

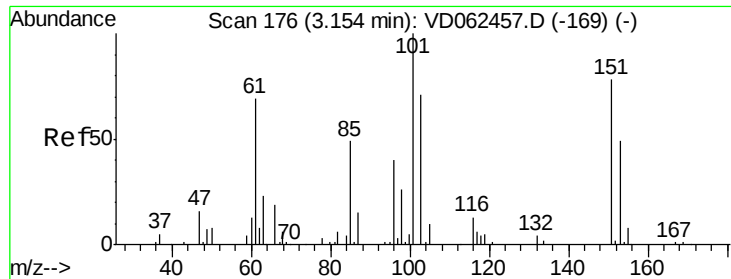


#8

Diethyl Ether
 Concen: 63.468 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	150.5	56.9	170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 67.886 ug/l

RT: 3.16 min Scan# 176

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

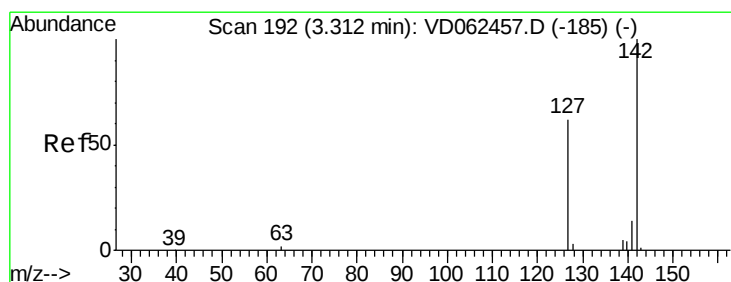
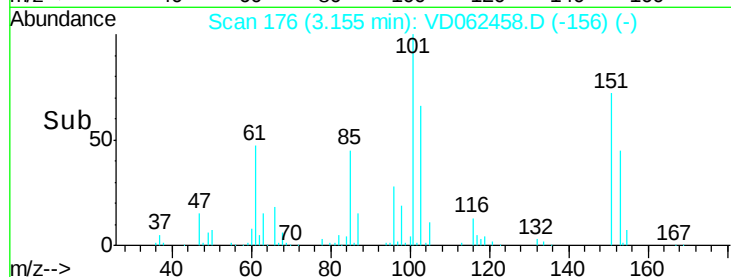
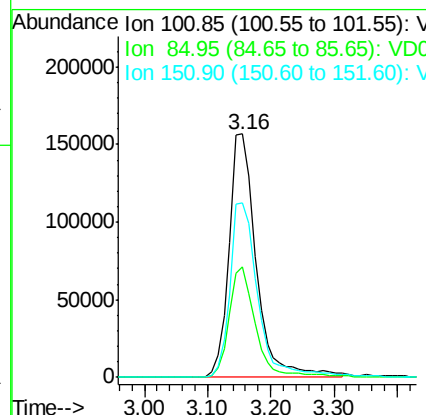
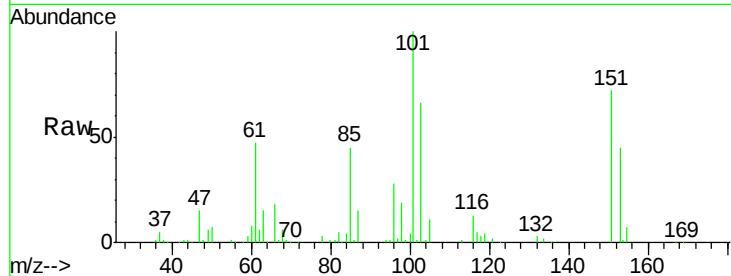
ClientSampleId :

VSTDIC075

Tot Ion:	101	Resp:	470749
Ion Ratio	Lower	Upper	
101	100		
85	45.2	32.4	48.6
151	71.6	59.4	89.0

Manual Integrations
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#10

Methyl Iodide

Concen: 71.753 ug/l

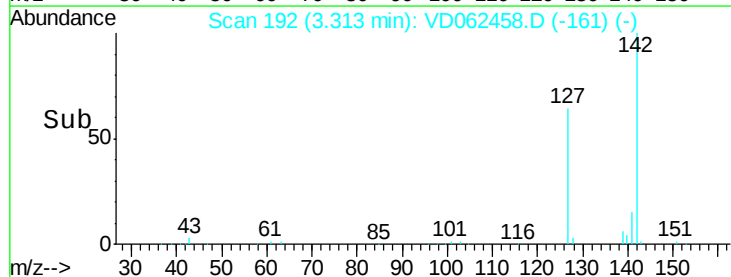
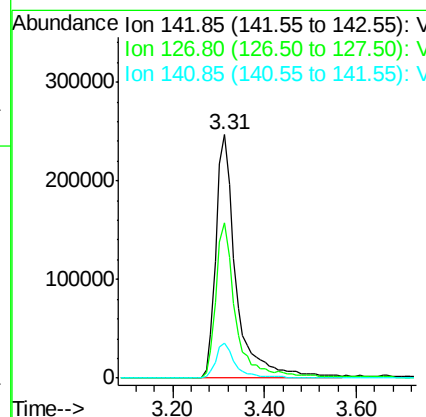
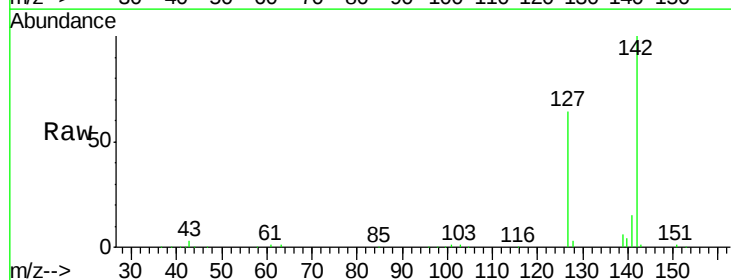
RT: 3.31 min Scan# 192

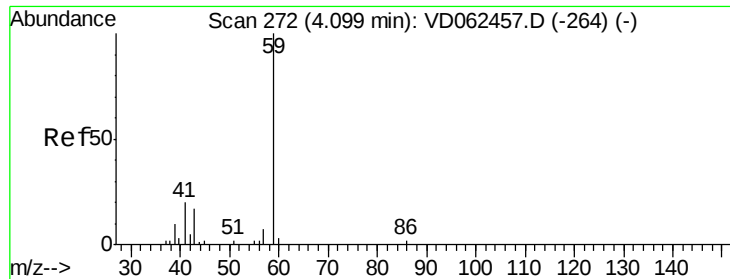
Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion:	142	Resp:	752012
Ion Ratio	Lower	Upper	
142	100		
127	63.9	38.8	58.2#
141	14.5	11.4	17.0





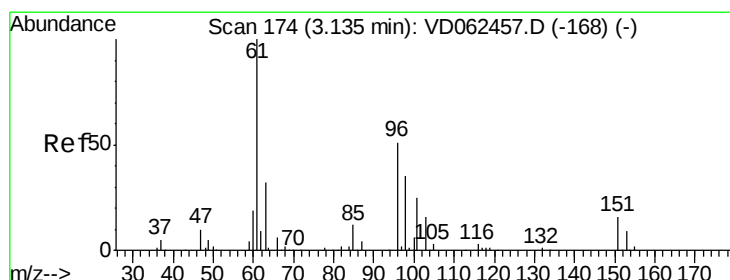
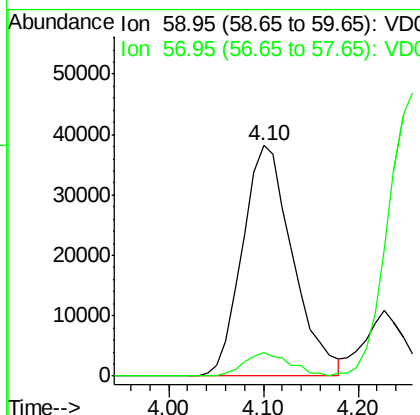
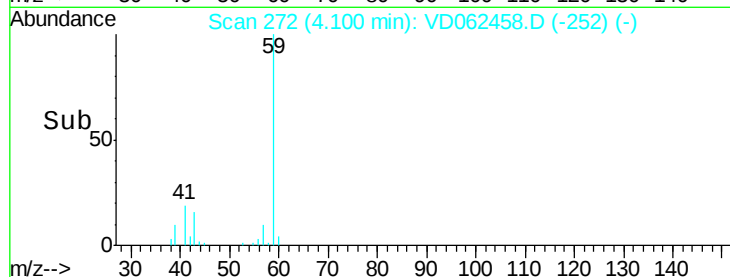
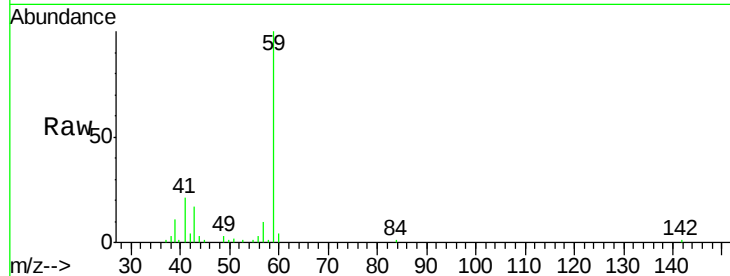
#11
Tert butyl alcohol
Concen: 427.079 ug/l
RT: 4.10 min Scan# 272
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion: 59 Resp: 140646
Ion Ratio Lower Upper
59 100
57 10.1 6.9 10.3

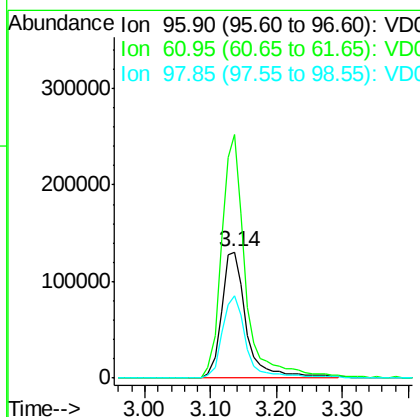
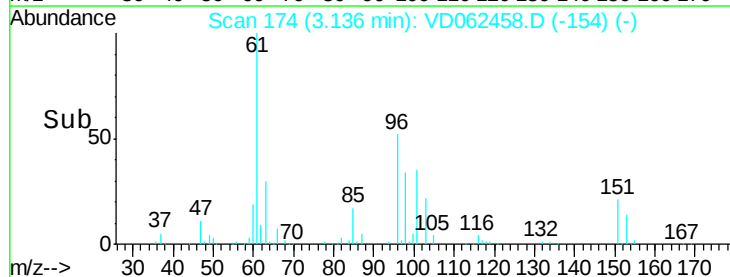
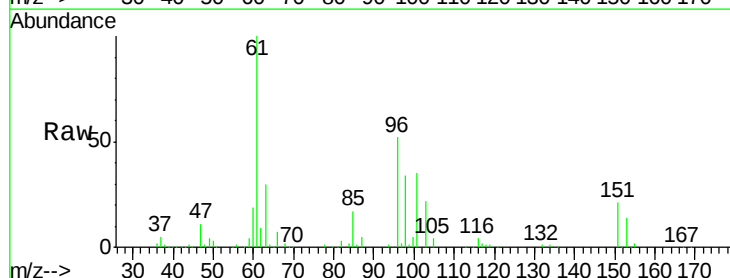
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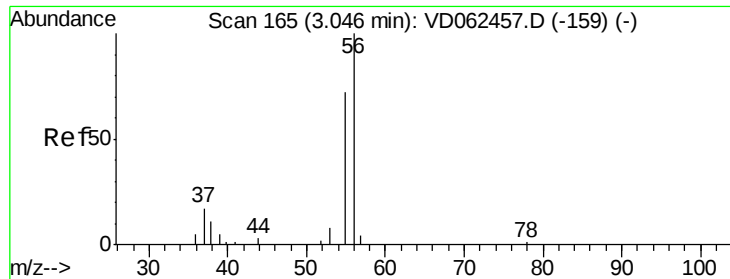
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#12
1,1-Dichloroethene
Concen: 65.185 ug/l
RT: 3.14 min Scan# 174
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion: 96 Resp: 345053
Ion Ratio Lower Upper
96 100
61 192.7 129.8 194.8
98 65.2 51.2 76.8





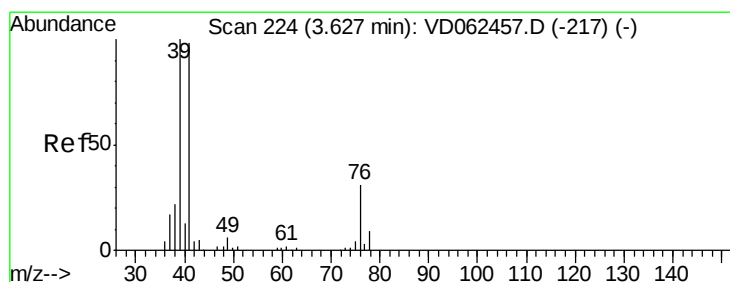
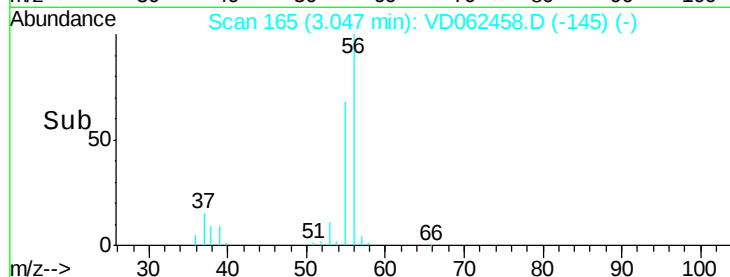
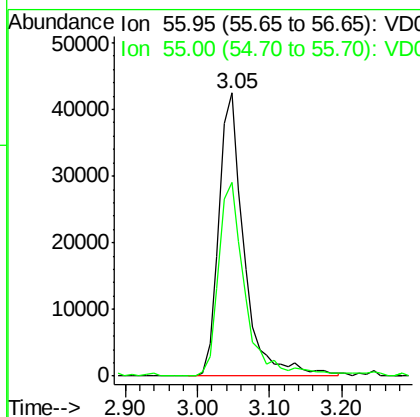
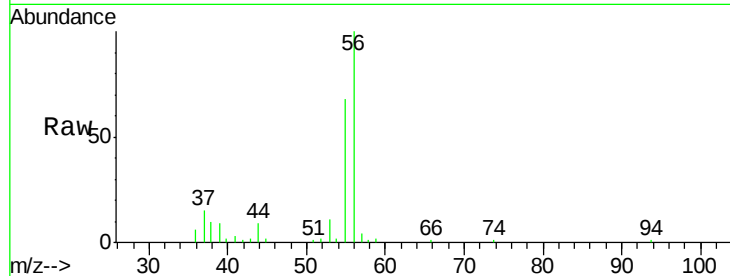
#13
Acrolein
Concen: 299.958 ug/l
RT: 3.05 min Scan# 165
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion: 56 Resp: 102171
Ion Ratio Lower Upper
56 100
55 68.3 51.4 77.2

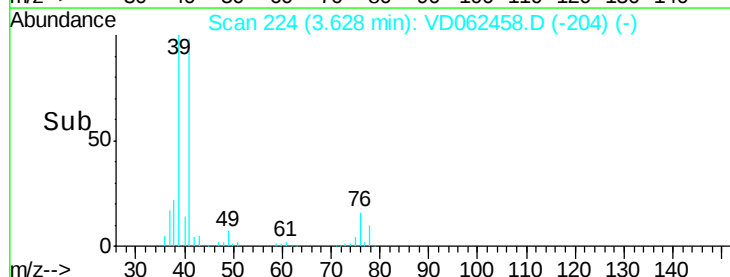
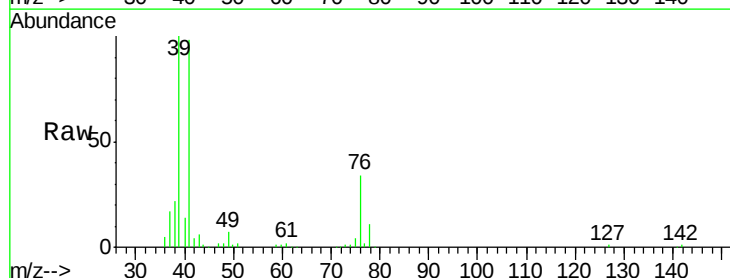
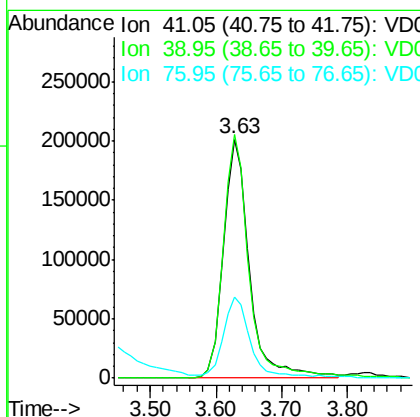
Manual Integrations
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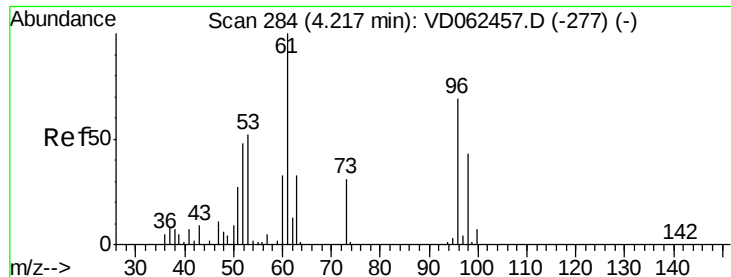
MMDadoda
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#14
Allyl chloride
Concen: 72.370 ug/l
RT: 3.63 min Scan# 224
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion: 41 Resp: 557005
Ion Ratio Lower Upper
41 100
39 101.9 60.5 90.7#
76 34.2 31.8 47.8





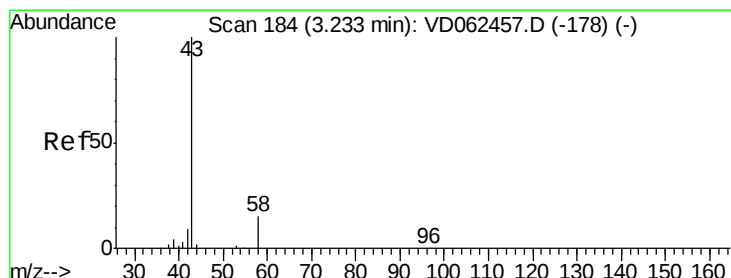
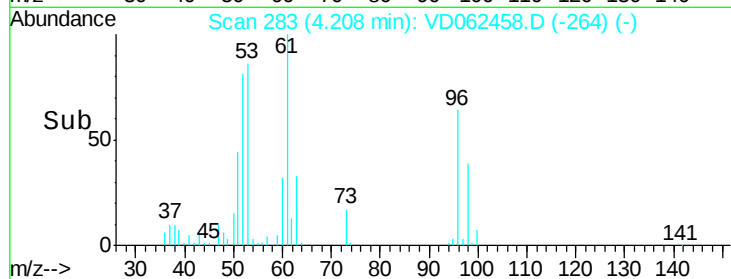
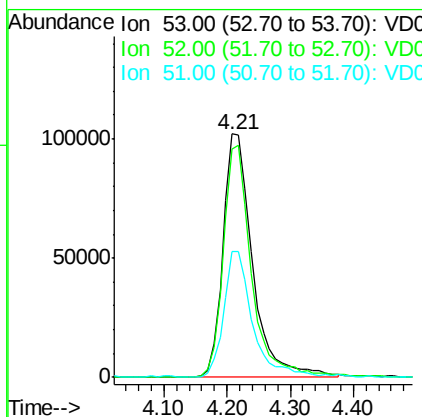
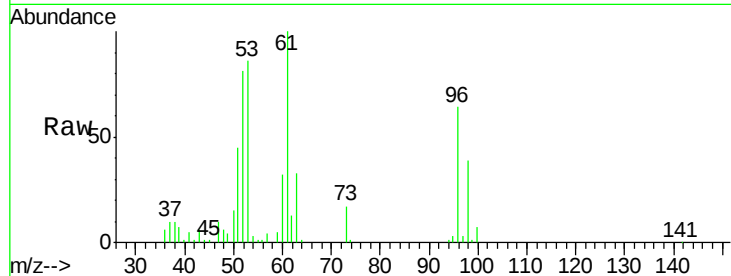
#15
 Acrylonitrile
 Concen: 384.903 ug/l
 RT: 4.21 min Scan# 283
 Delta R.T. -0.01 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampled :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
53	100		
52	93.8	65.0	97.4
51	51.7	32.6	48.8#

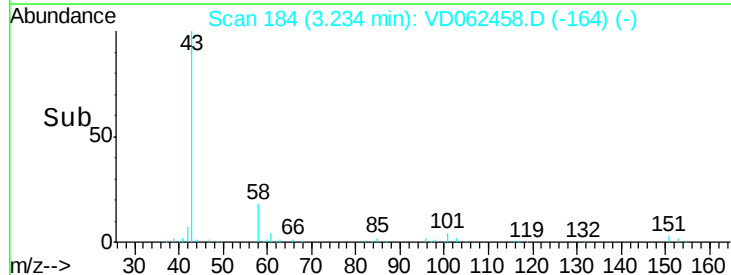
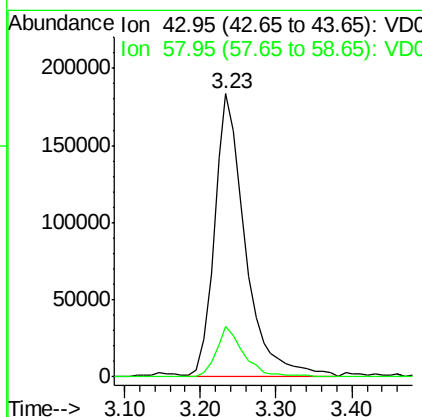
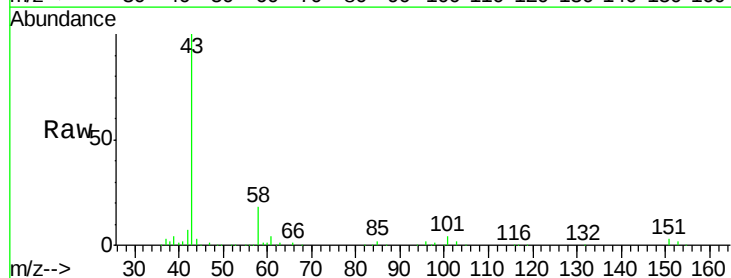
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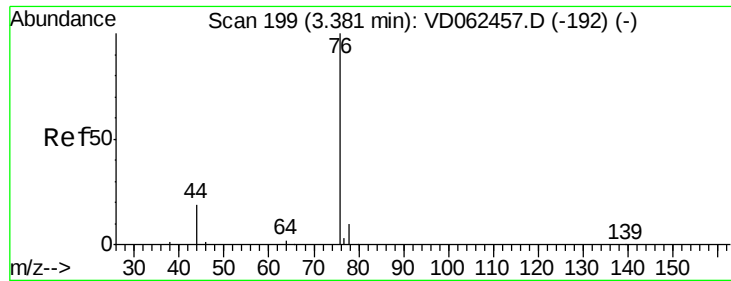
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#16
 Acetone
 Concen: 385.841 ug/l
 RT: 3.23 min Scan# 184
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	17.6	19.9	29.9#





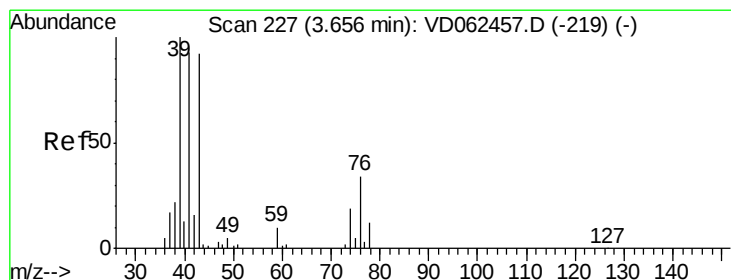
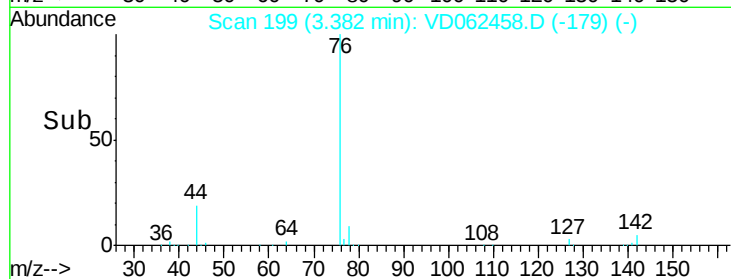
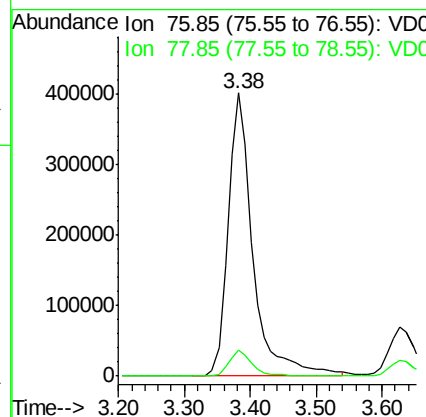
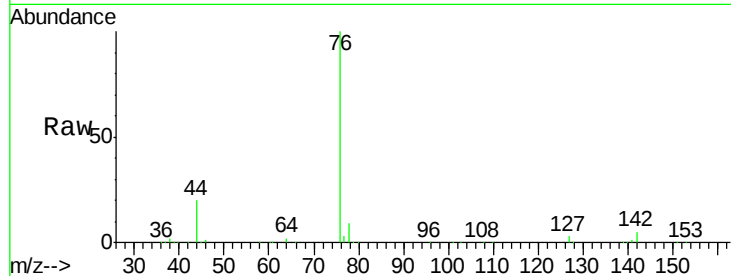
#17
Carbon Disulfide
Concen: 69.415 ug/l
RT: 3.38 min Scan# 199
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion: 76 Resp: 1057024
Ion Ratio Lower Upper
76 100
78 9.1 7.2 10.8

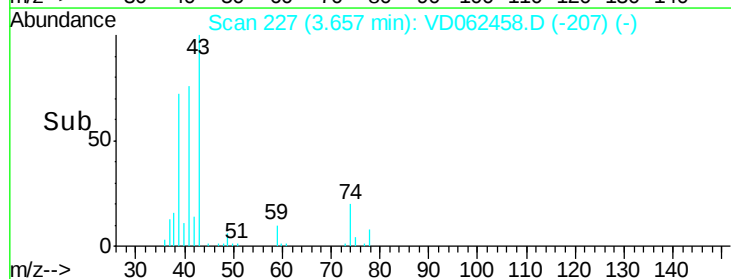
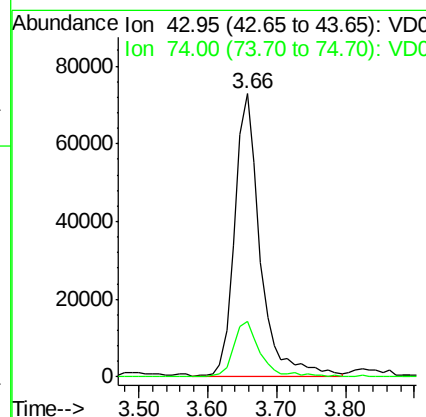
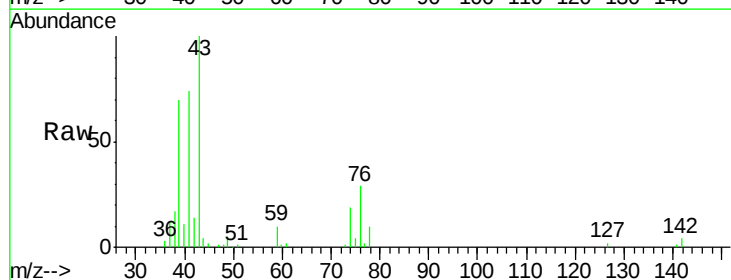
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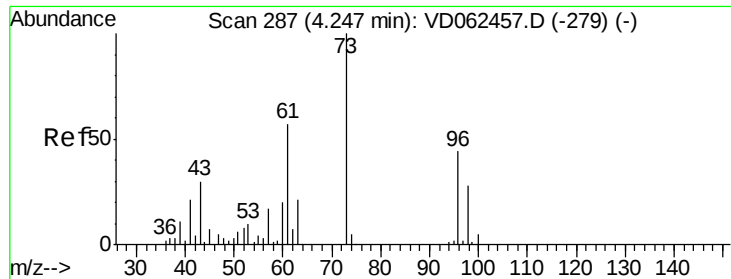
MMDadoda
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#18
Methyl Acetate
Concen: 71.081 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion: 43 Resp: 188627
Ion Ratio Lower Upper
43 100
74 19.4 18.0 27.0





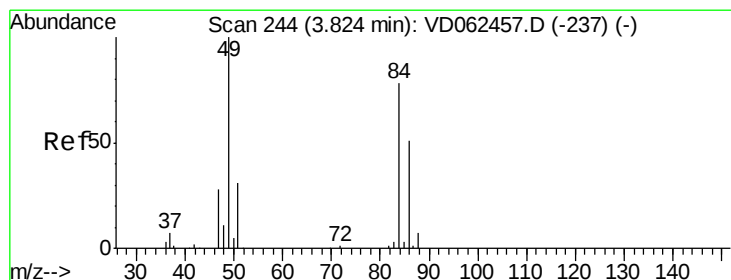
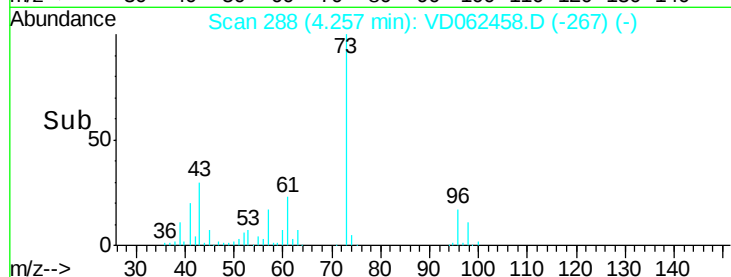
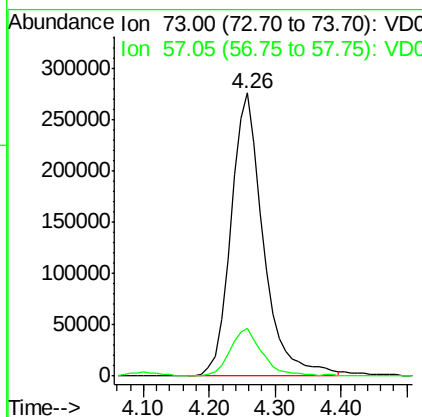
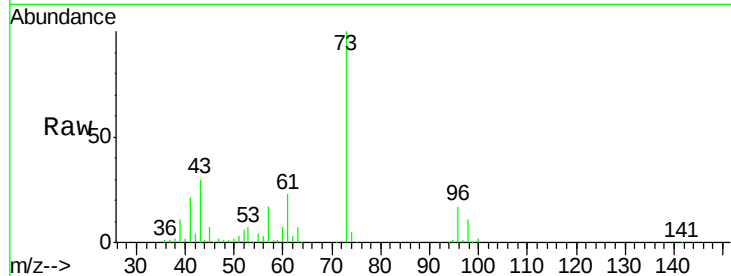
#19
Methyl tert-butyl Ether
Concen: 83.712 ug/l
RT: 4.26 min Scan# 288
Delta R.T. 0.01 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion: 73 Resp: 949808
Ion Ratio Lower Upper
73 100
57 17.0 16.3 24.5

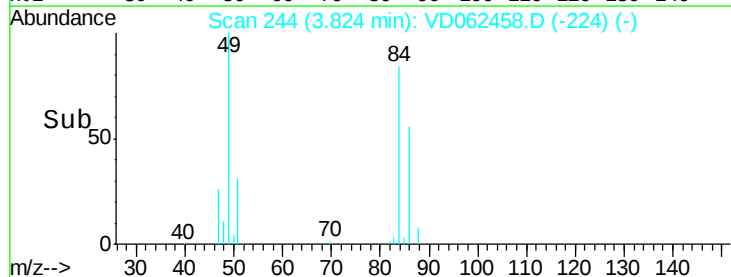
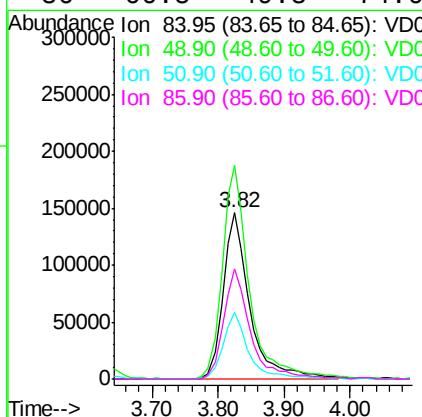
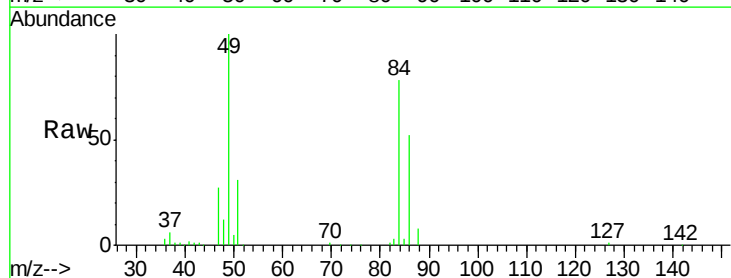
Manual Integrations
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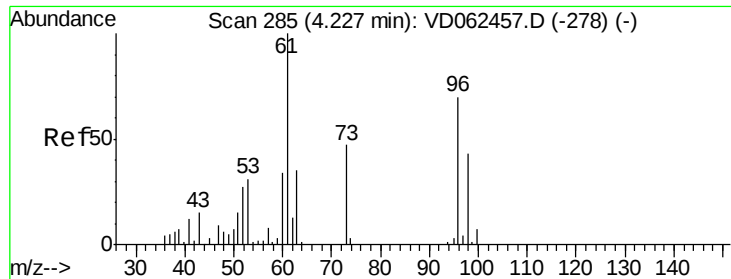
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#20
Methylene Chloride
Concen: 72.998 ug/l
RT: 3.82 min Scan# 244
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion: 84 Resp: 412381
Ion Ratio Lower Upper
84 100
49 128.7 94.0 141.0
51 39.8 29.0 43.4
86 66.5 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 76.236 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion: 96 Resp: 449058

Ion Ratio Lower Upper

96 100

61 145.4 104.4 156.6

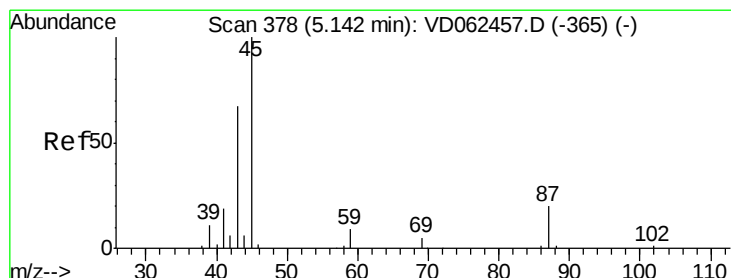
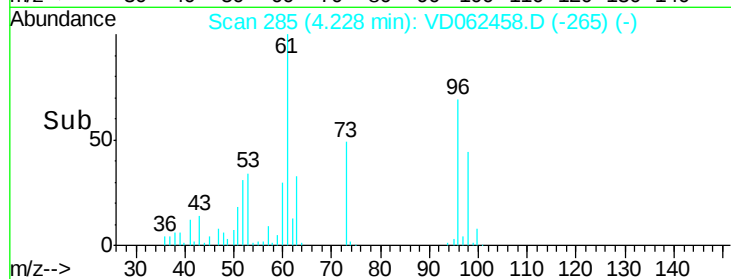
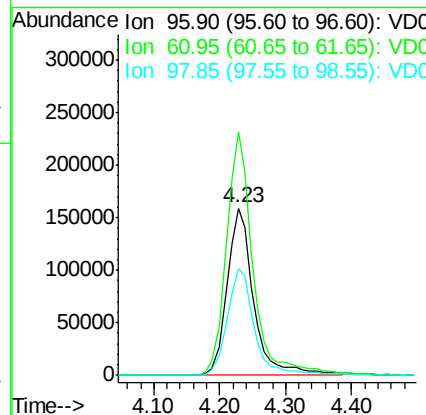
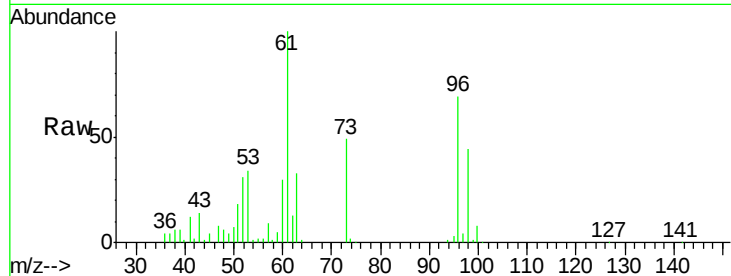
98 63.7 51.8 77.8

Manual Integrations

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#22

Diisopropyl ether

Concen: 75.098 ug/l

RT: 5.14 min Scan# 378

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion: 45 Resp: 1229980

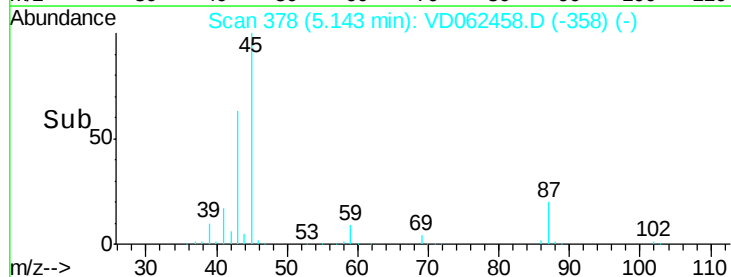
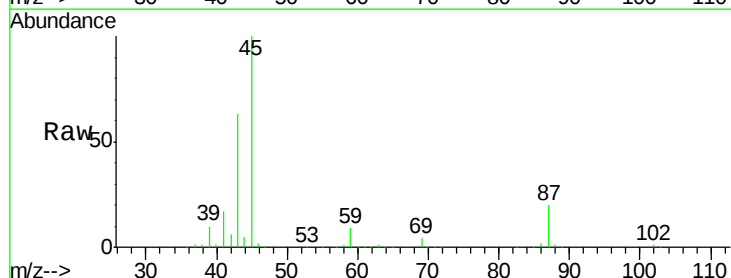
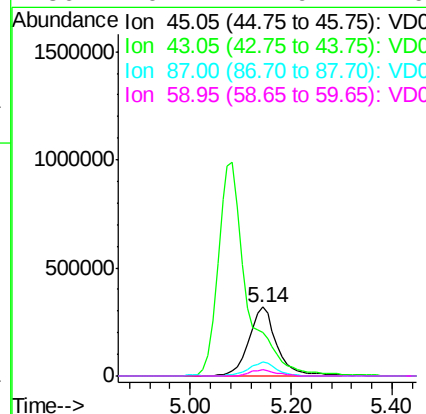
Ion Ratio Lower Upper

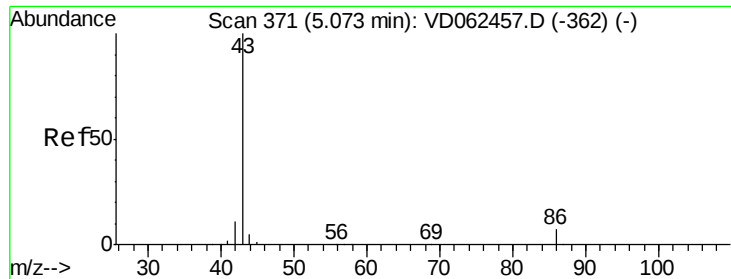
45 100

43 63.4 46.2 69.2

87 20.5 15.9 23.9

59 9.4 7.9 11.9





#23

Vinyl Acetate

Concen: 449.257 ug/l

RT: 5.08 min Scan# 372

Delta R.T. 0.01 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 3882184

Ion Ratio Lower Upper

43 100

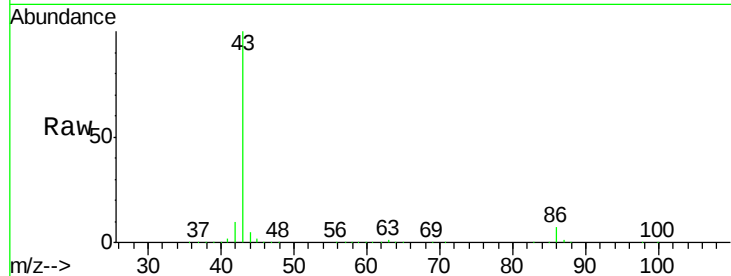
86 7.3 6.4 9.6

Manual Integrations

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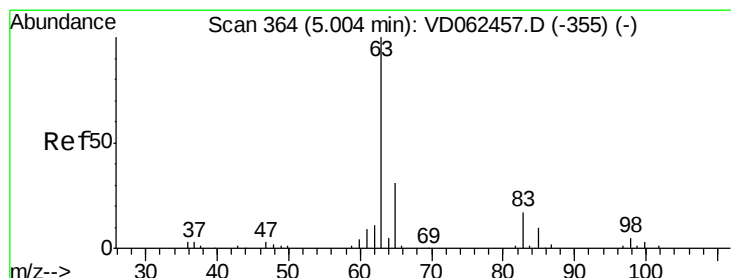
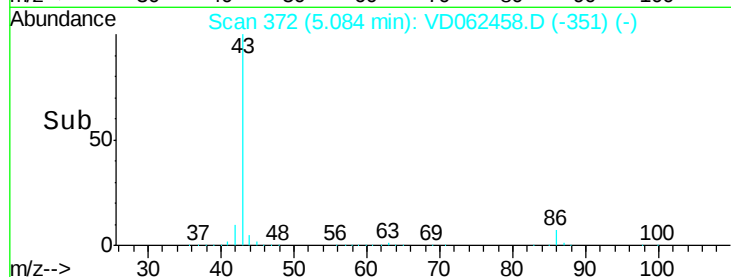
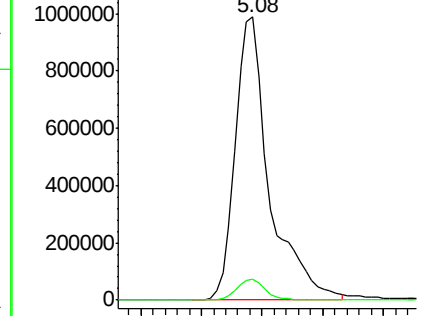
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 77.896 ug/l

RT: 5.00 min Scan# 363

Delta R.T. -0.01 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

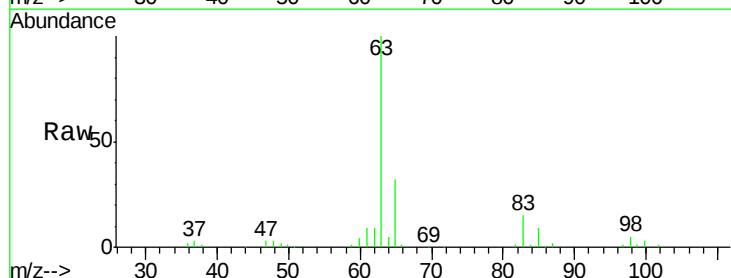
Tgt Ion: 63 Resp: 769648

Ion Ratio Lower Upper

63 100

98 5.1 2.8 8.4

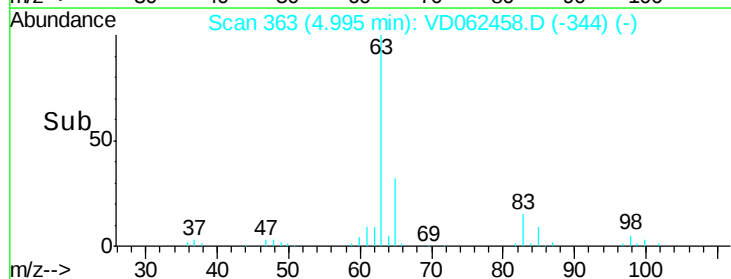
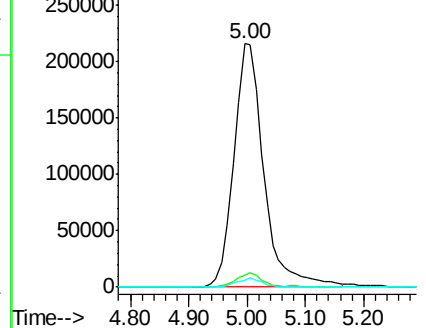
100 3.0 1.8 5.5

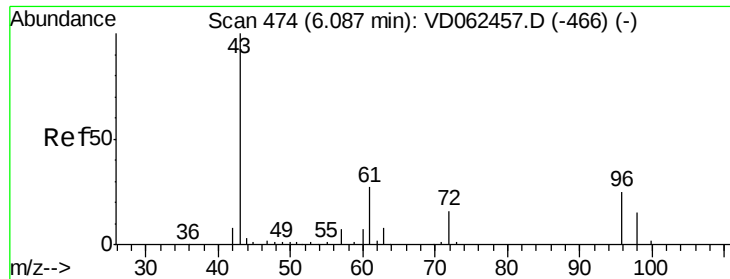


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 395.922 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 584290

Ion Ratio Lower Upper

43 100

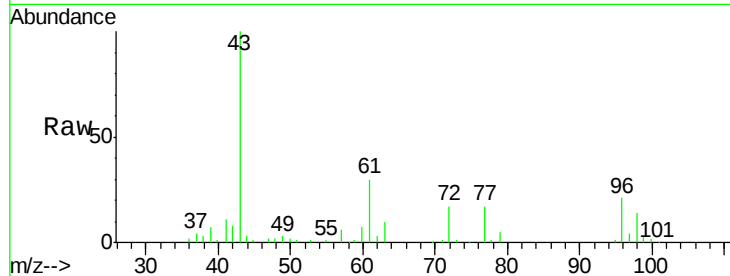
72 16.7 16.2 24.4

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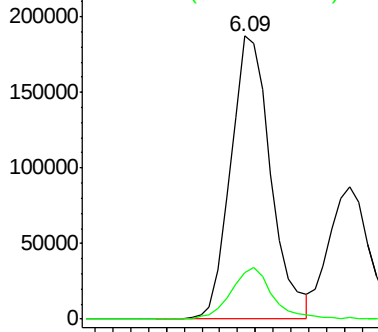
MMDadoda

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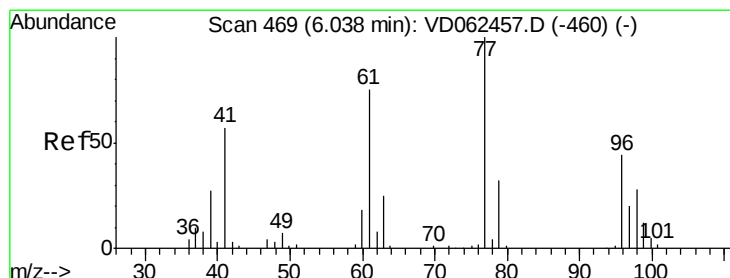
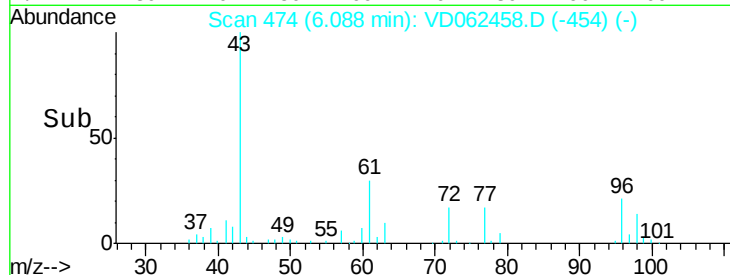


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#26

2,2-Dichloropropane

Concen: 78.082 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD062458.D

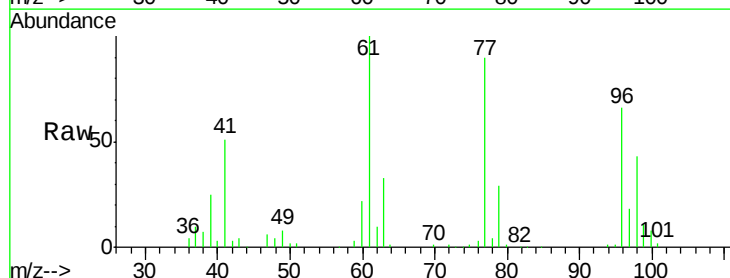
Acq: 20 May 2019 16:10

Tgt Ion: 77 Resp: 768483

Ion Ratio Lower Upper

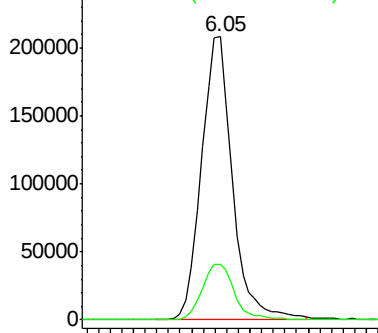
77 100

97 19.7 11.9 35.9

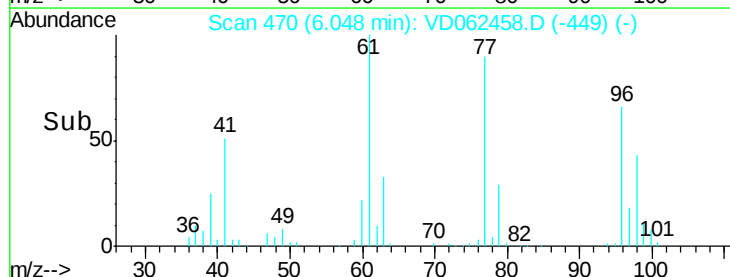


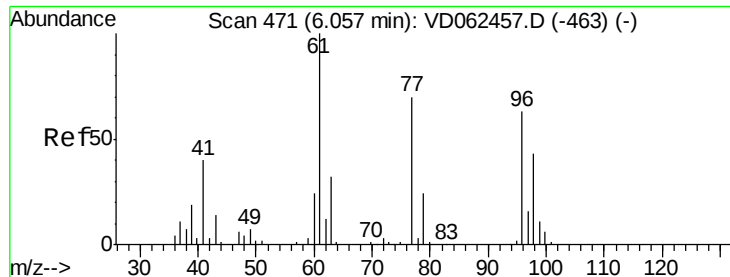
Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



Time-->





#27

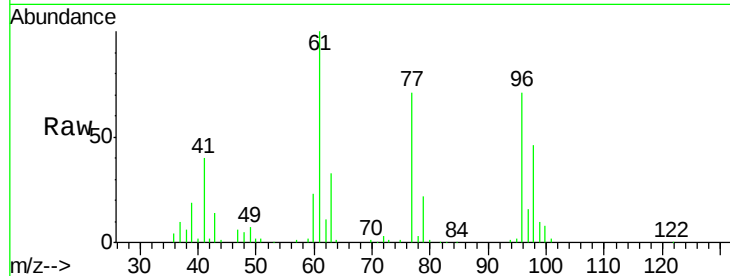
cis-1,2-Dichloroethene
Concen: 74.225 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
96	100	489382		
61	140.8	0.0	279.8	
98	64.7	0.0	136.0	

Manual Integrations
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MMDadoda
5/22/2019 4:49:04 AM

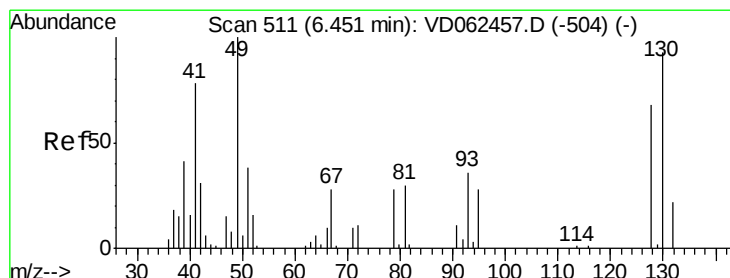
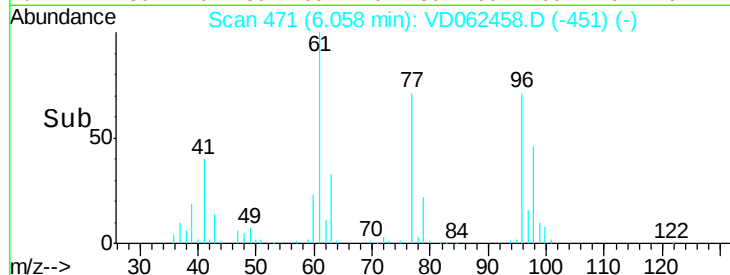
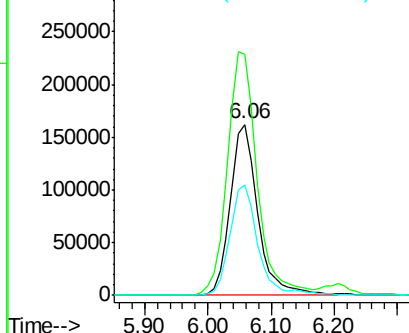


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

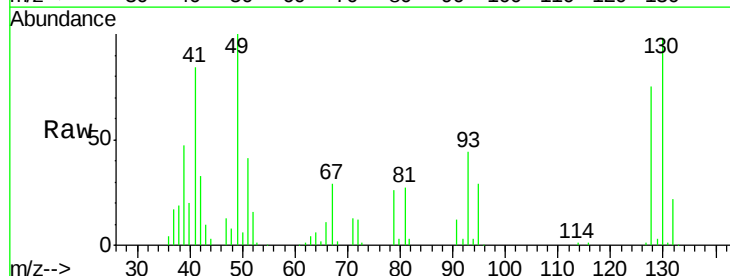
Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane
Concen: 70.774 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	275118		
129	2.5	0.0	6.6	
130	97.7	86.7	130.1	

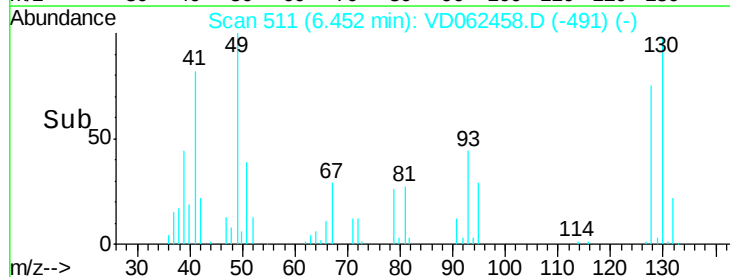
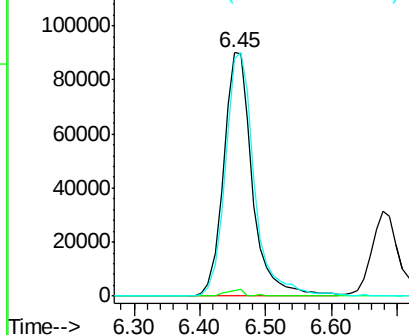


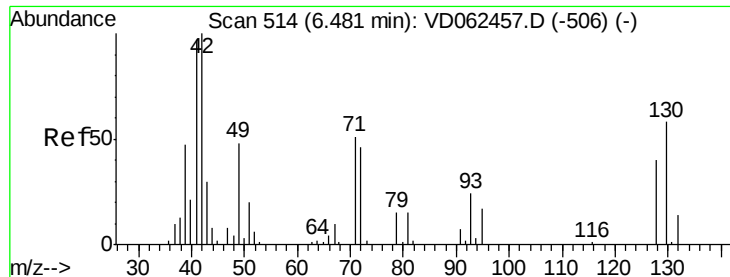
Abundance

Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





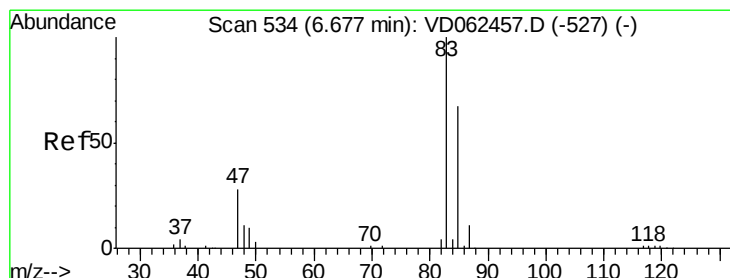
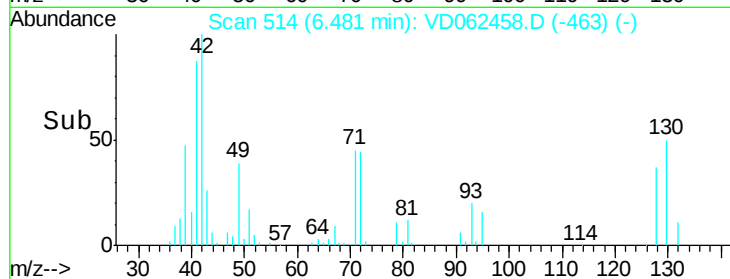
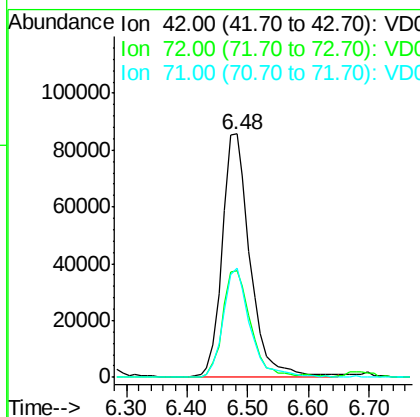
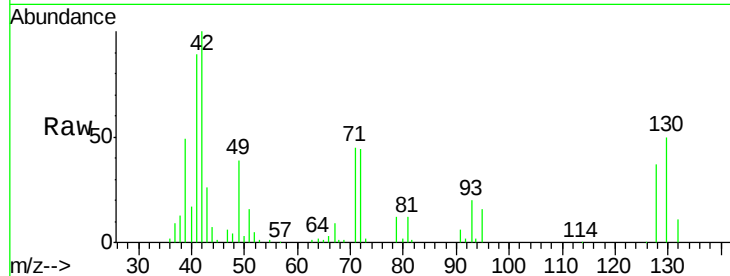
#29
Tetrahydrofuran
Concen: 404.378 ug/l
RT: 6.48 min Scan# 514
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.3	37.8	56.6
71	43.4	36.7	55.1

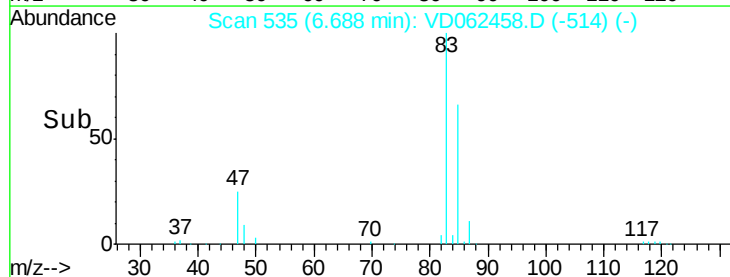
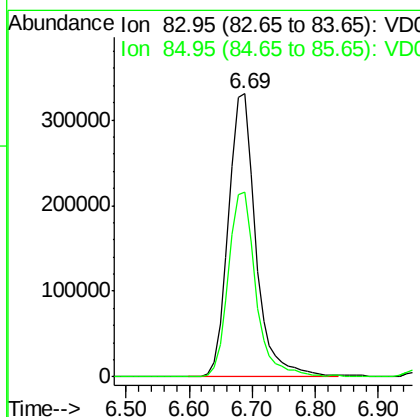
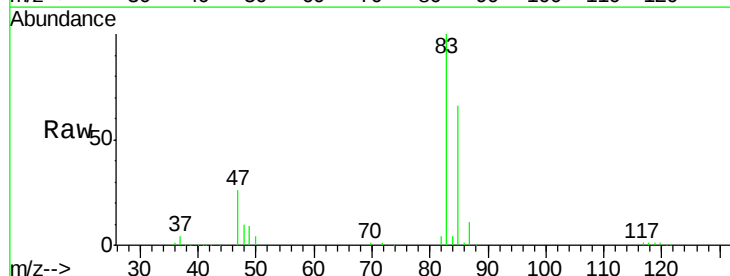
Manual Integrations
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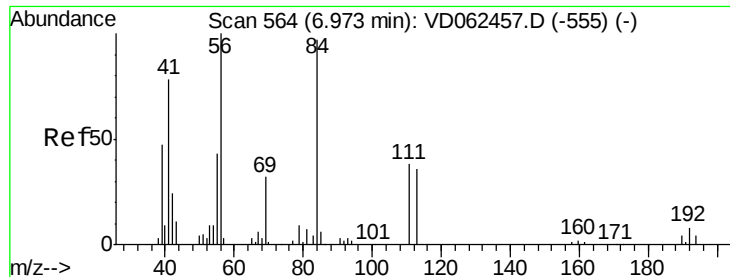
MMDadoda
5/22/2019 4:49:04 AM



#30
Chloroform
Concen: 83.430 ug/l
RT: 6.69 min Scan# 535
Delta R.T. 0.01 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.7	77.5





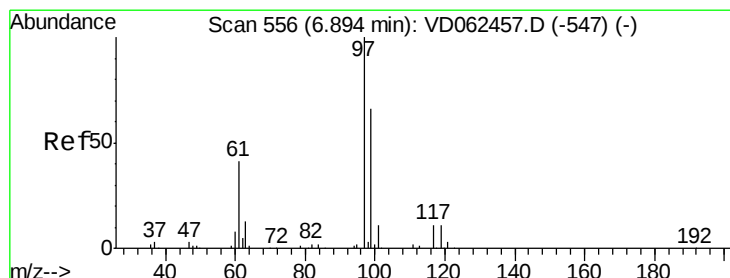
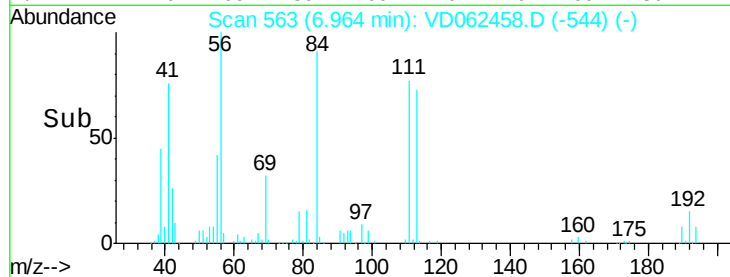
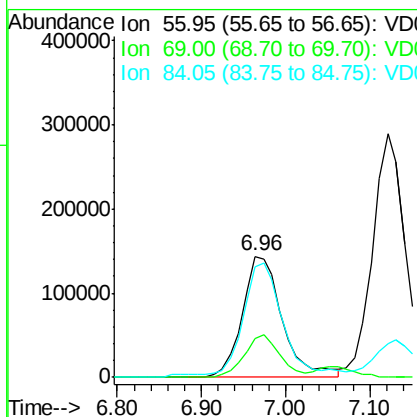
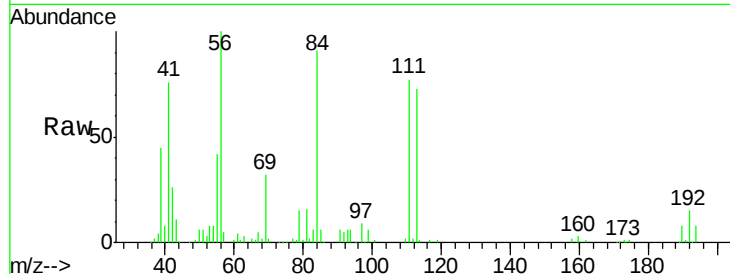
#31
Cvclohexane
Concen: 70.721 ug/l
RT: 6.96 min Scan# 563
Delta R.T. -0.01 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.3	25.8	38.6
84	91.0	72.2	108.4

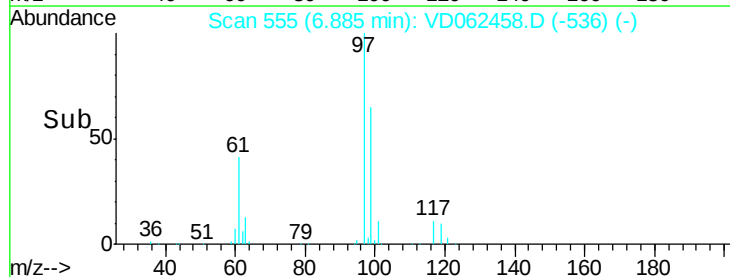
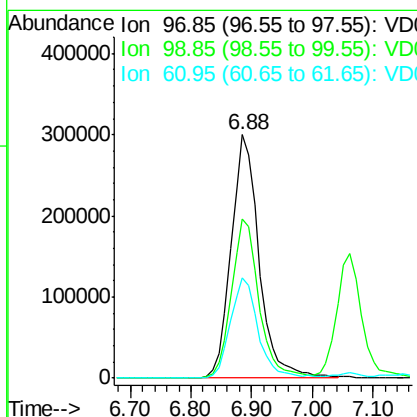
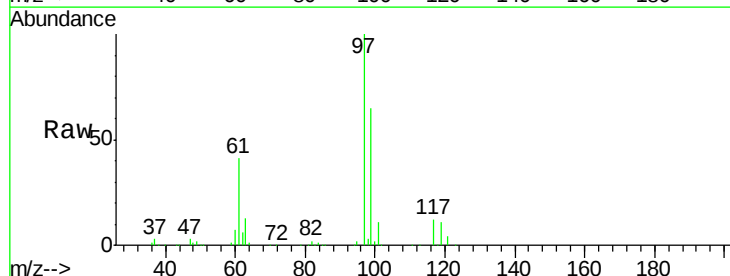
Manual Integrations
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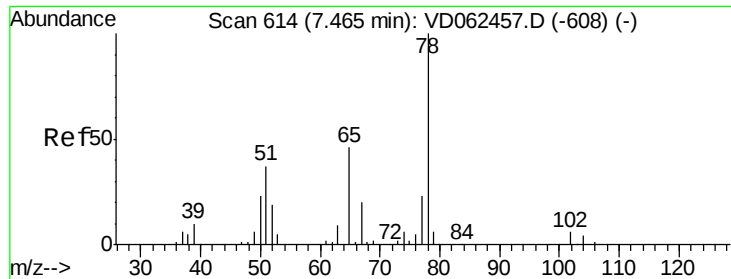
MMDadoda
5/22/2019 4:49:04 AM



#32
1,1,1-Trichloroethane
Concen: 85.298 ug/l
RT: 6.88 min Scan# 555
Delta R.T. -0.01 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.2	78.2
61	41.1	32.4	48.6





#33

1,2-Dichloroethane-d4

Concen: 88.693 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion: 65 Resp: 572216

Ion Ratio Lower Upper

65 100

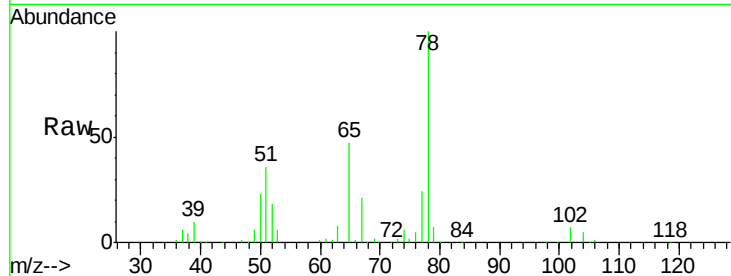
67 43.7 0.0 98.0

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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

250000

200000

150000

100000

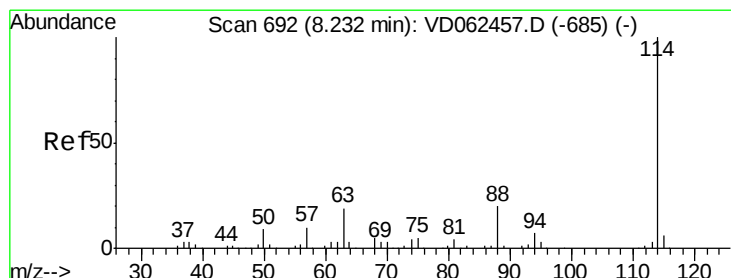
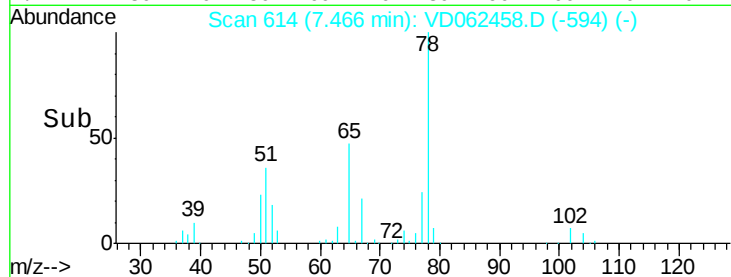
50000

0

7.47

7.40 7.50 7.60

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

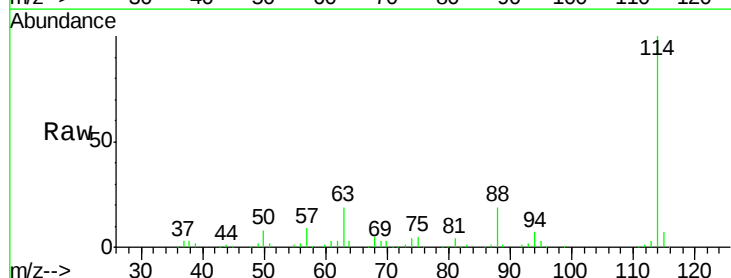
Tgt Ion: 114 Resp: 931772

Ion Ratio Lower Upper

114 100

63 18.5 0.0 32.4

88 18.8 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

500000

400000

300000

200000

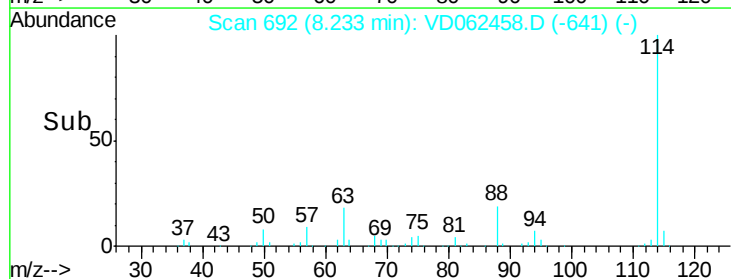
100000

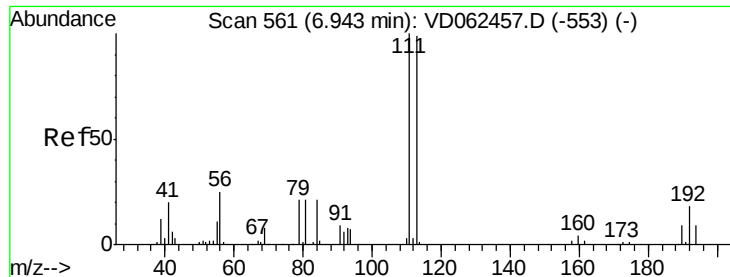
0

8.23

8.20 8.40

Time-->





#35

Dibromofluoromethane

Concen: 83.154 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

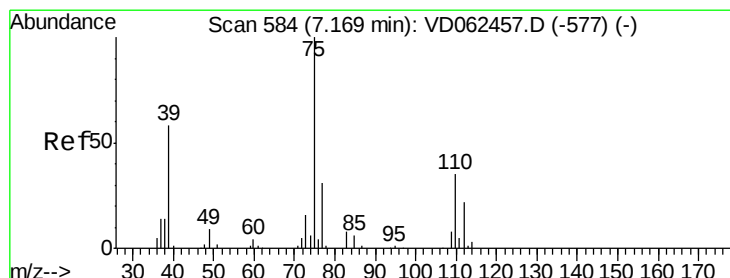
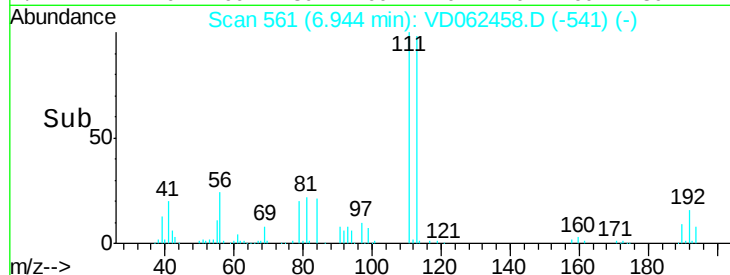
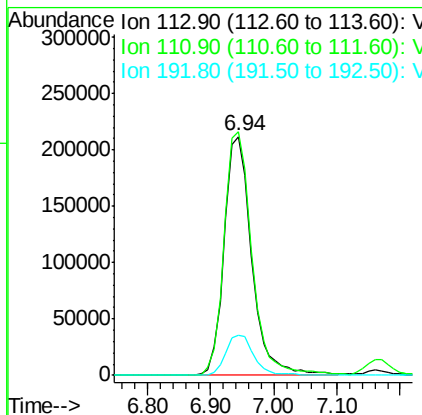
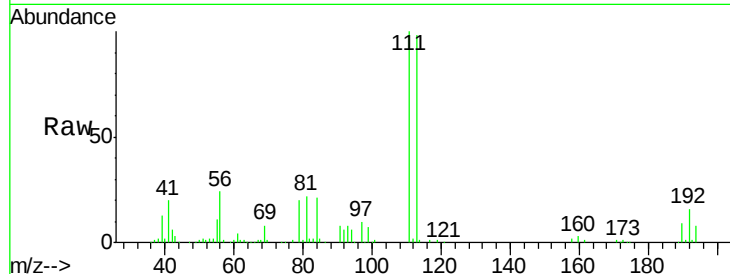
ClientSampleId :

VSTDIC075

Tot Ion:	113	Resp:	642864
Ion	Ratio	Lower	Upper
113	100		
111	101.9	78.5	117.7
192	16.8	13.0	19.4

Manual Integrations
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5/22/2019 4:49:04 AM



#36

1,1-Dichloropropene

Concen: 79.406 ug/l

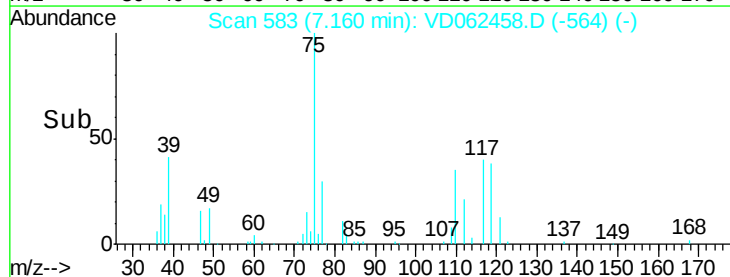
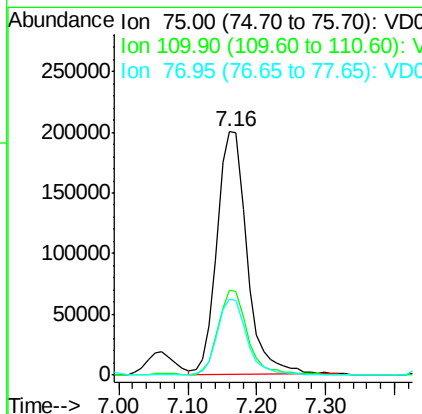
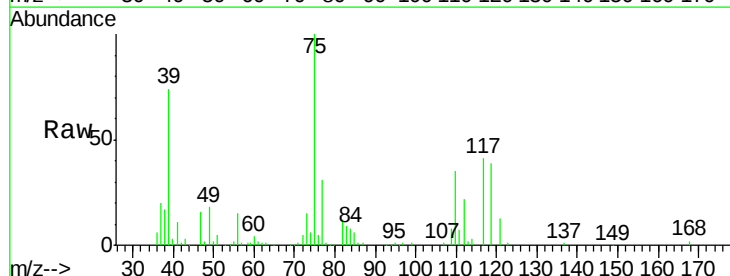
RT: 7.16 min Scan# 583

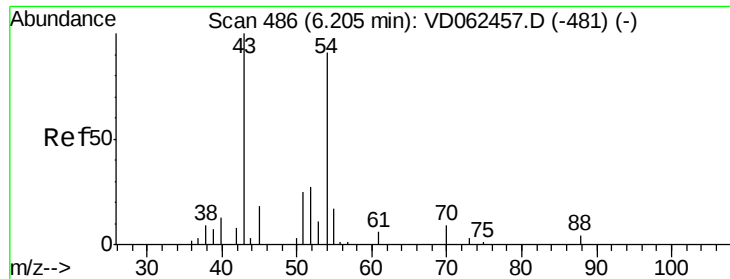
Delta R.T. -0.01 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion:	75	Resp:	606633
Ion	Ratio	Lower	Upper
75	100		
110	34.8	19.1	57.1
77	31.2	25.6	38.4





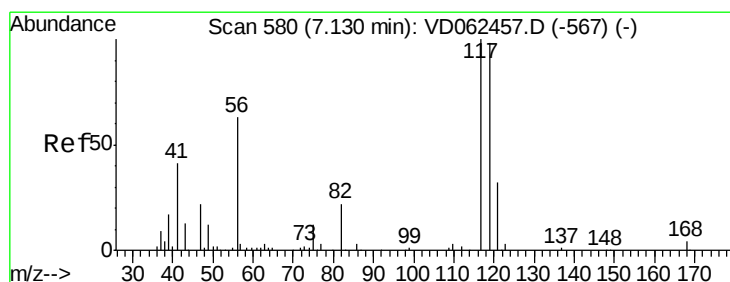
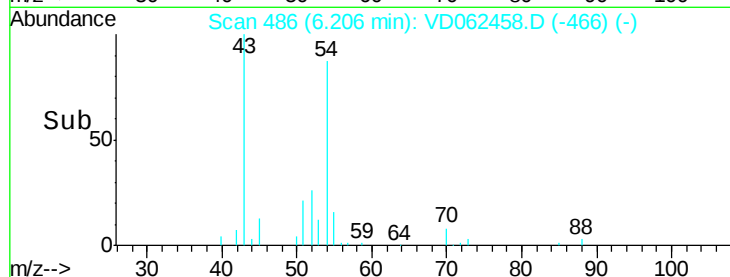
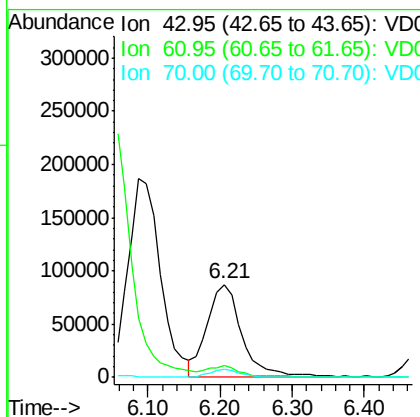
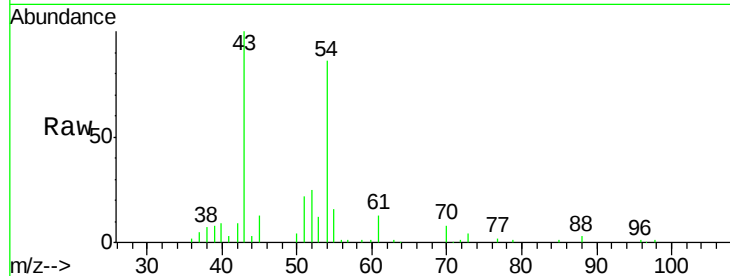
#37
Ethyl Acetate
Concen: 87.321 ug/l
RT: 6.21 min Scan# 486
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	14.7	22.1#
70	8.4	7.8	11.6

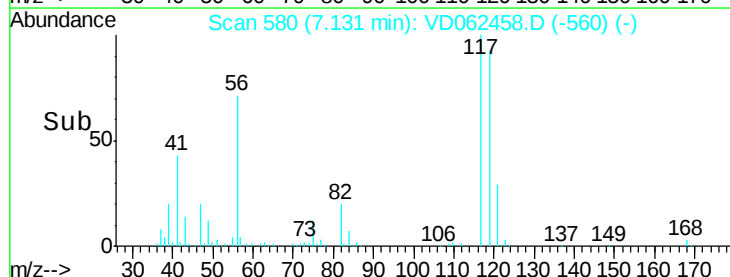
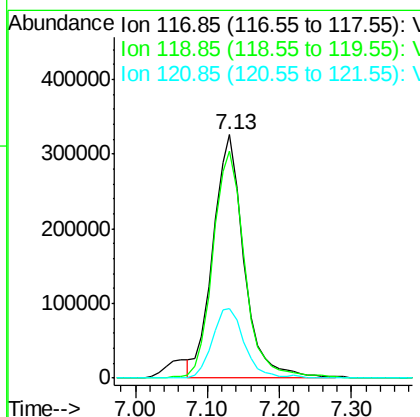
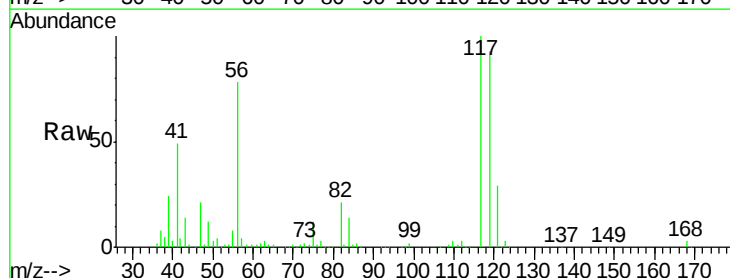
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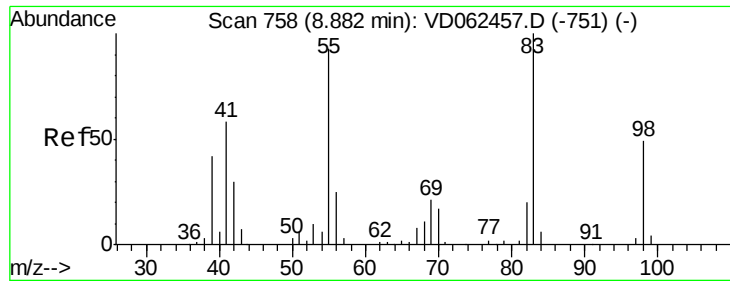
MMDadoda
5/22/2019 4:49:04 AM



#38
Carbon Tetrachloride
Concen: 92.862 ug/l m
RT: 7.13 min Scan# 580
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.3	75.8	113.8
121	28.7	25.9	38.9





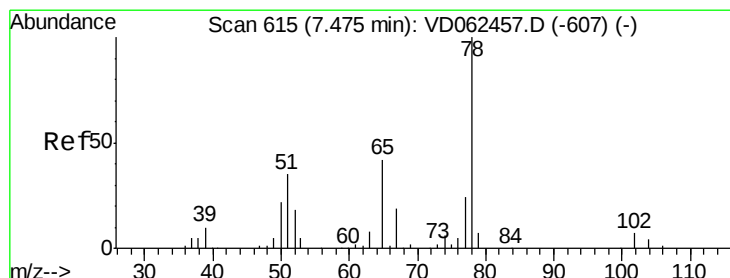
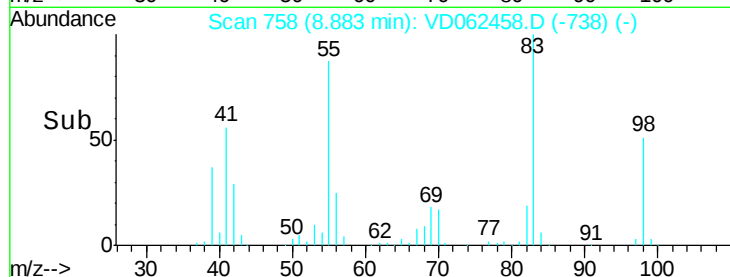
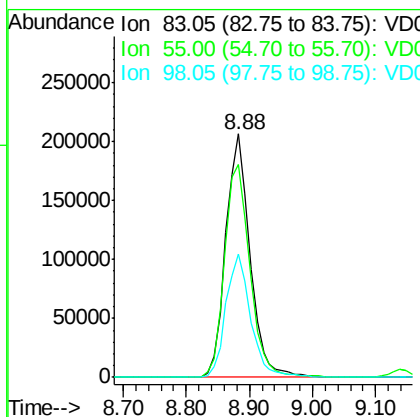
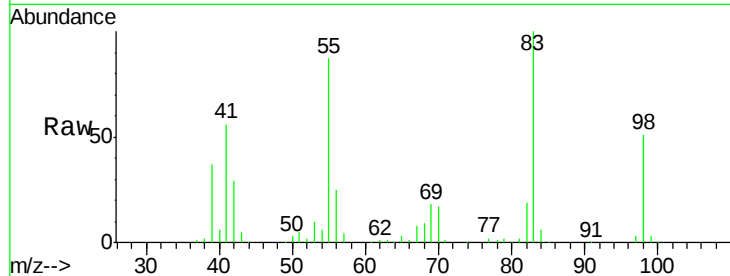
#39
Methvlcvclohexane
Concen: 75.133 ug/l
RT: 8.88 min Scan# 758
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
83	100	549953		
55	87.3	68.2	102.4	
98	50.7	38.2	57.4	

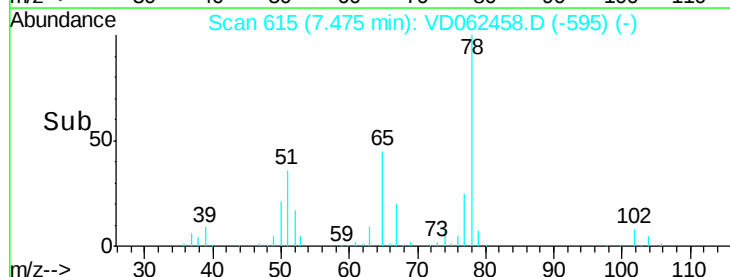
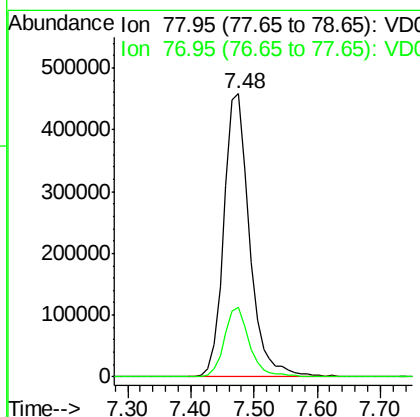
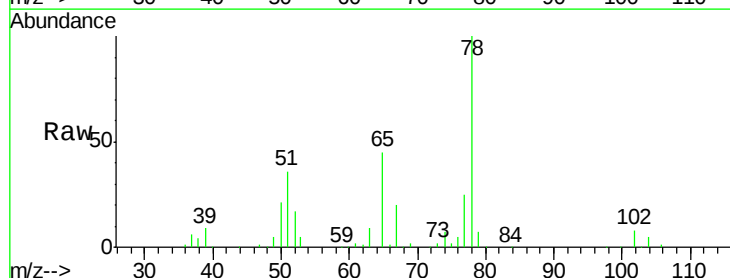
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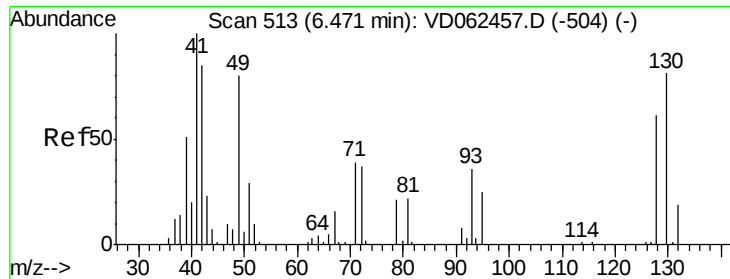
MMDadoda
5/22/2019 4:49:04 AM



#40
Benzene
Concen: 75.192 ug/l
RT: 7.48 min Scan# 615
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1297147		
77	24.7	19.7	29.5	





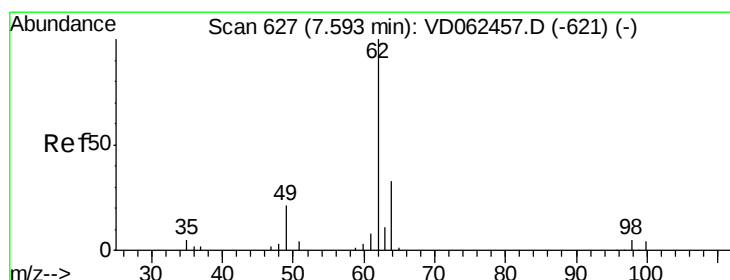
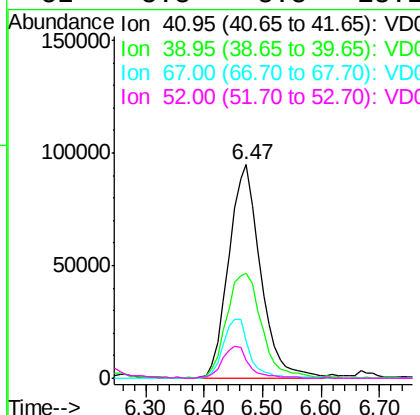
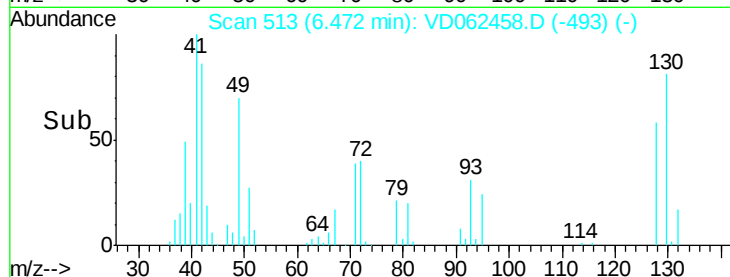
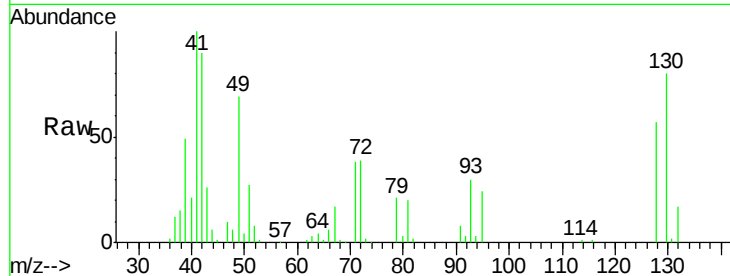
#41
Methacrylonitrile
Concen: 91.490 ug/l
RT: 6.47 min Scan# 513
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	49.3	34.1	51.1	
67	17.2	23.8	35.6	
52	8.3	8.8	13.2	

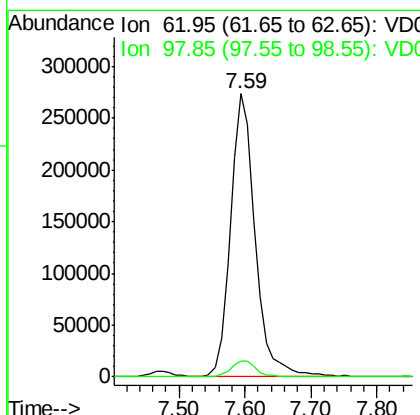
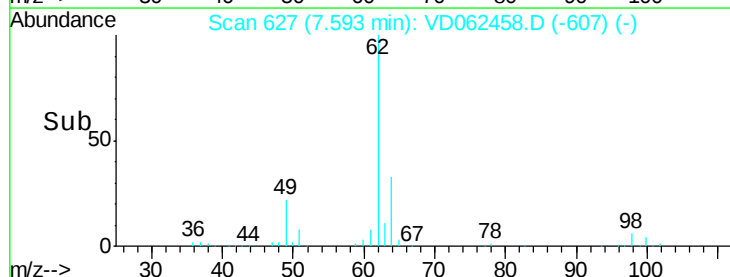
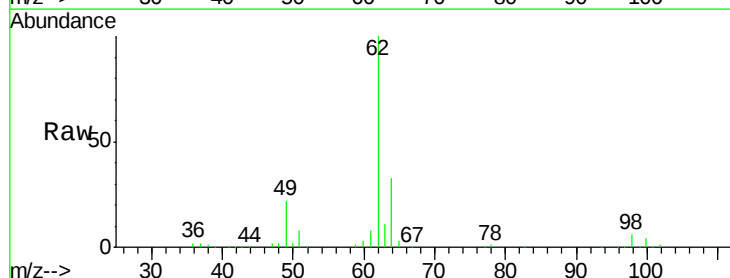
Manual Integrations
APPROVED

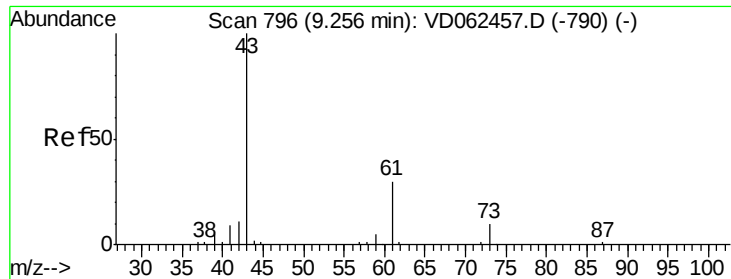
MMDadoda
5/22/2019 4:49:04 AM



#42
1,2-Dichloroethane
Concen: 98.449 ug/l
RT: 7.59 min Scan# 627
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
62	100			
98	5.8	0.0	17.8	





#43

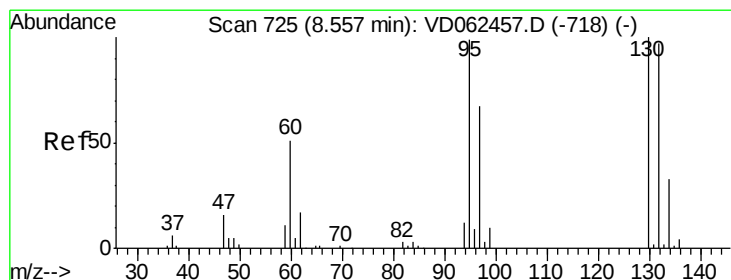
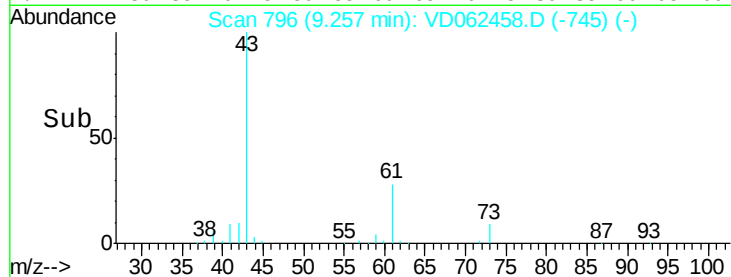
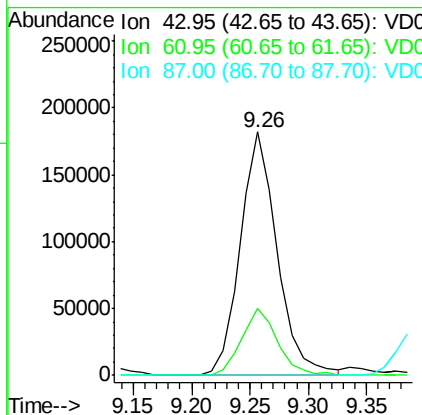
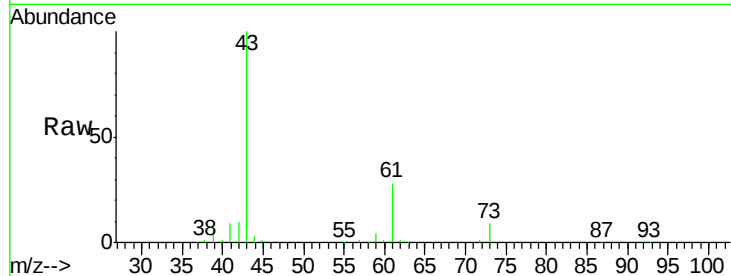
Isopropyl Acetate
 Concen: 86.631 ug/l
 RT: 9.26 min Scan# 796
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.7	25.1	37.7
87	0.3	0.0	0.0

Manual Integrations
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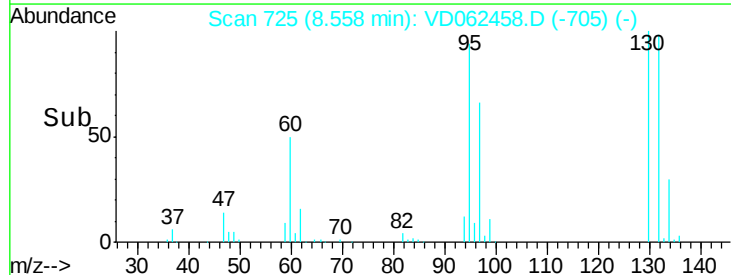
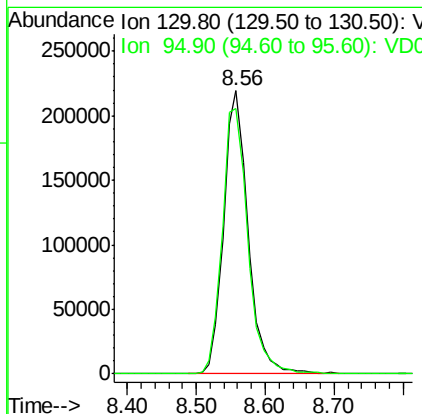
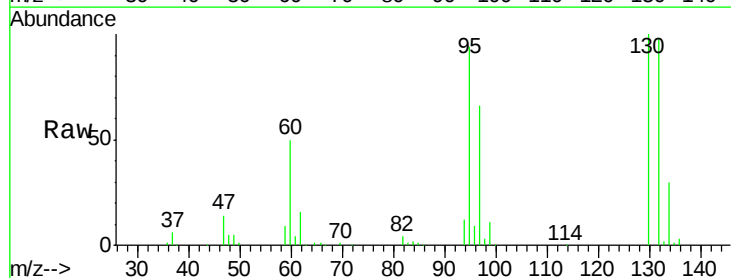
MMDadoda
 5/22/2019 4:49:04 AM

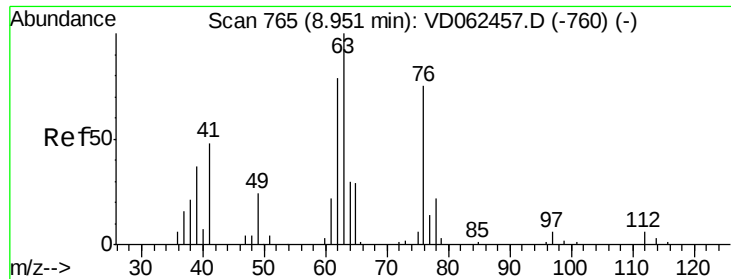


#44

Trichloroethene
 Concen: 82.128 ug/l
 RT: 8.56 min Scan# 725
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.7	0.0	174.0





#45

1,2-Dichloropropane

Concen: 79.607 ug/l

RT: 8.95 min Scan# 765

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion: 63 Resp: 339692

Ion Ratio Lower Upper

63 100

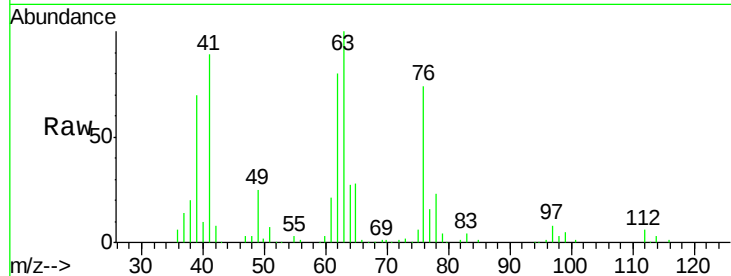
65 27.9 23.8 35.6

Manual Integrations

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5/22/2019 4:49:04 AM



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.95

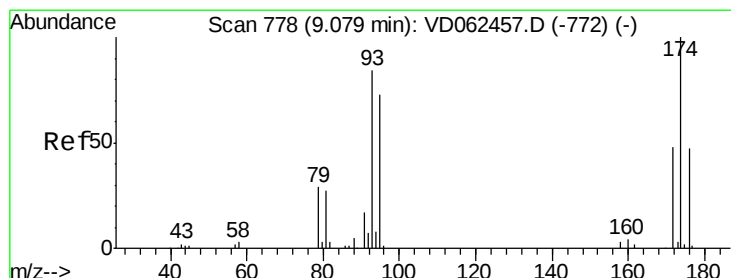
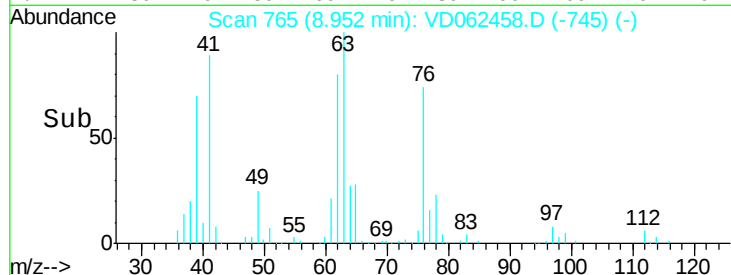
150000

100000

50000

0

Time--> 8.80 8.90 9.00 9.10



#46

Dibromomethane

Concen: 88.099 ug/l

RT: 9.08 min Scan# 778

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

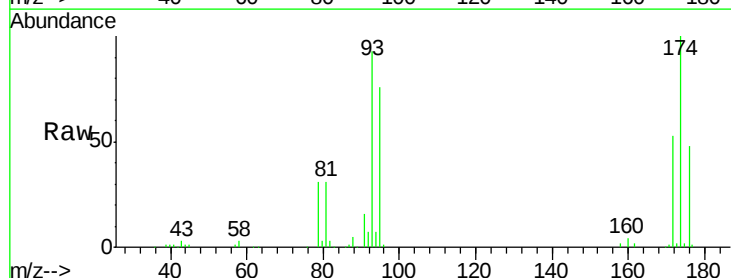
Tgt Ion: 93 Resp: 305699

Ion Ratio Lower Upper

93 100

95 81.2 64.8 97.2

174 107.3 79.3 118.9



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

9.08

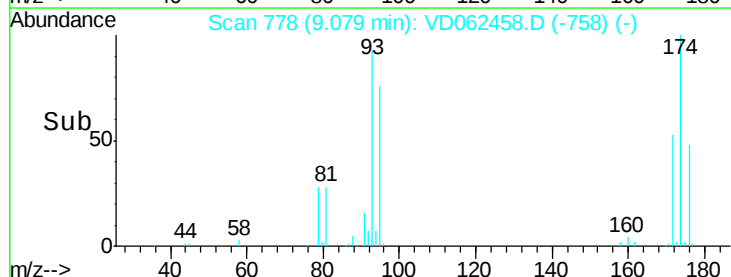
150000

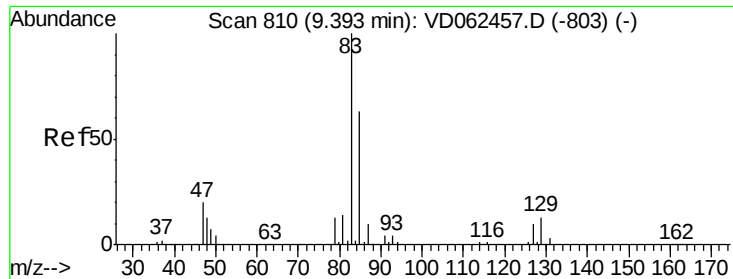
100000

50000

0

Time--> 9.00 9.10 9.20





#47

Bromodichloromethane

Concen: 91.634 ug/l

RT: 9.39 min Scan# 810

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

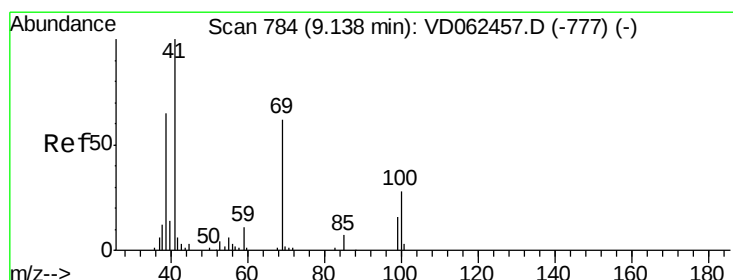
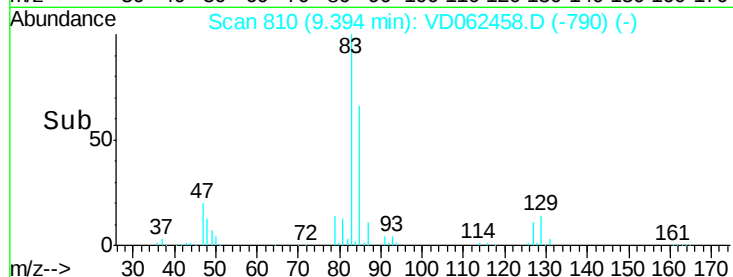
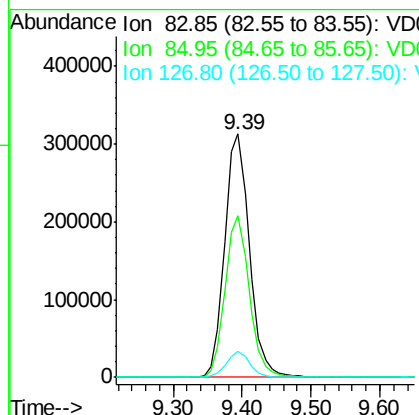
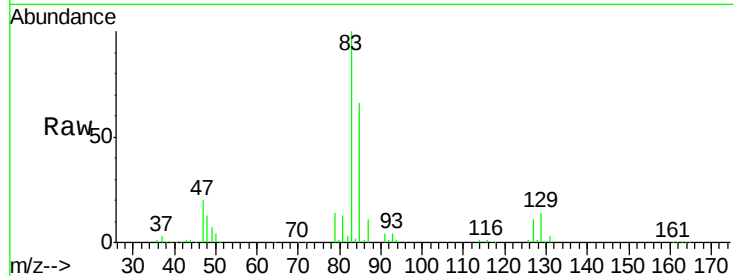
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	777754
Ion	Ratio	Lower	Upper
83	100		
85	66.4	50.9	76.3
127	10.6	8.1	12.1

Manual Integrations
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5/22/2019 4:49:04 AM



#48

Methyl methacrylate

Concen: 83.251 ug/l

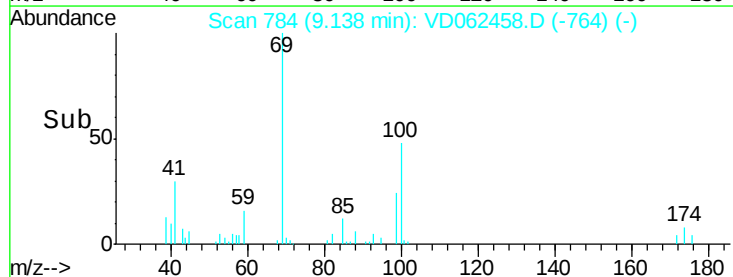
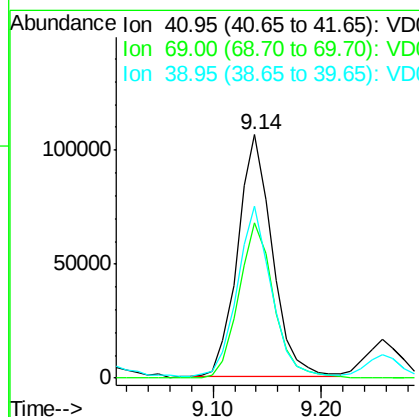
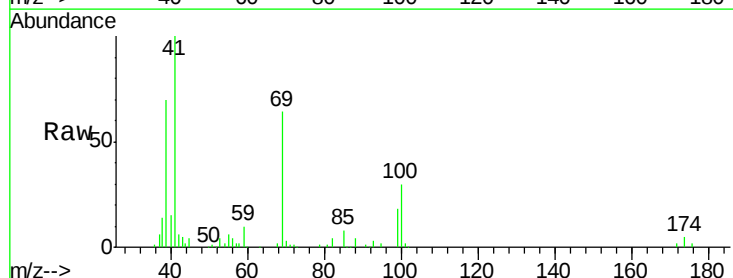
RT: 9.14 min Scan# 784

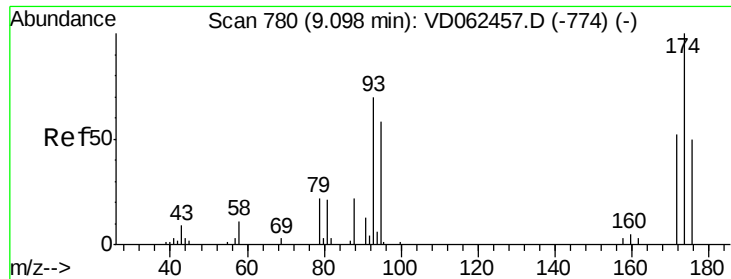
Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion:	41	Resp:	235621
Ion	Ratio	Lower	Upper
41	100		
69	63.7	64.2	96.2#
39	70.4	46.8	70.2#





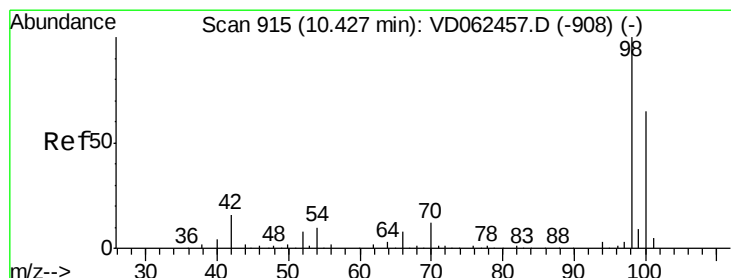
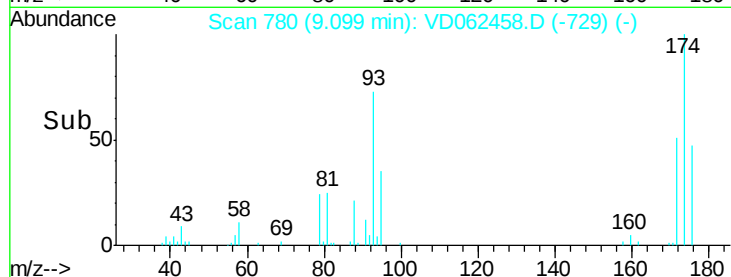
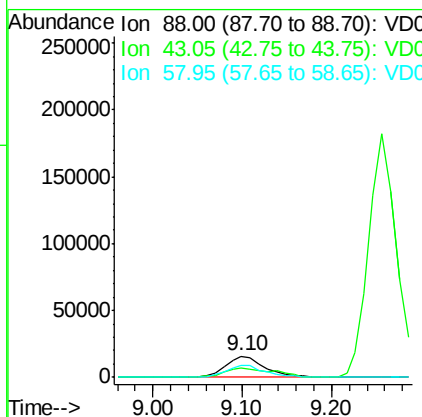
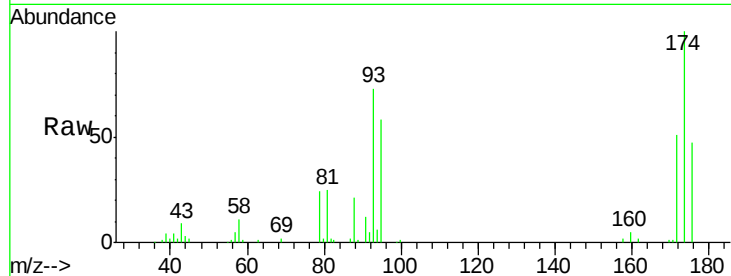
#49
1,4-Dioxane
Concen: 1544.389 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
88	100		
43	43.8	23.4	35.0#
58	53.2	44.0	66.0

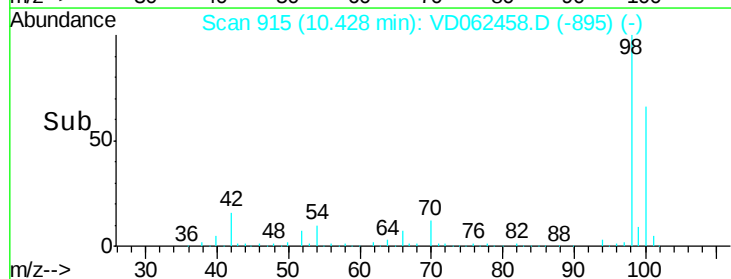
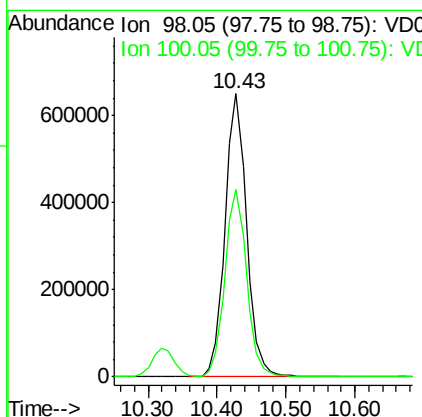
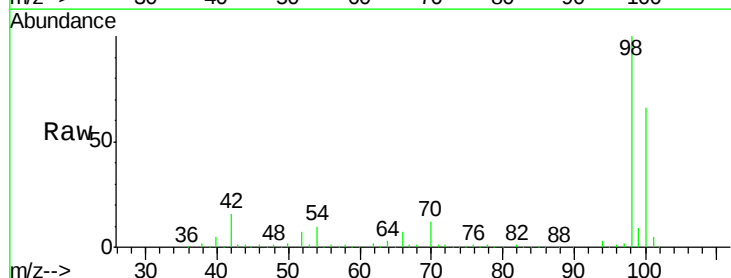
Manual Integrations
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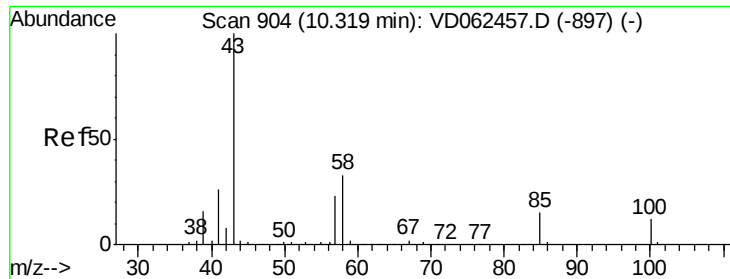
MMDadoda
5/22/2019 4:49:04 AM



#50
Toluene-d8
Concen: 75.768 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 426.172 ug/l

RT: 10.32 min Scan# 904

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tot Ion: 43 Resp: 1258748

Ion Ratio Lower Upper

43 100

58 33.4 30.4 45.6

Instrument :

MSVOA_D

ClientSampleId :

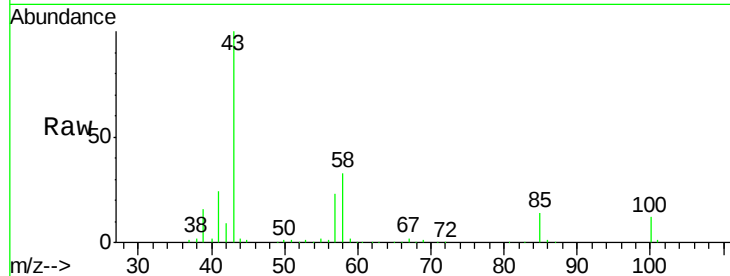
VSTDIC075

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

600000

500000

400000

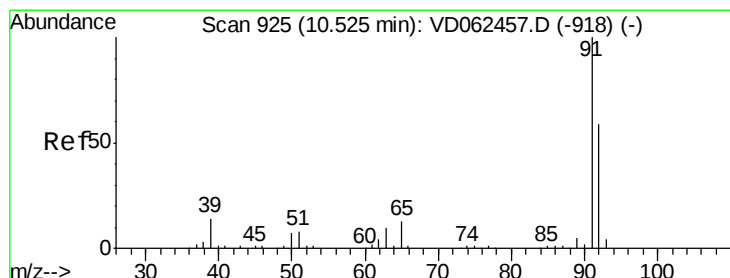
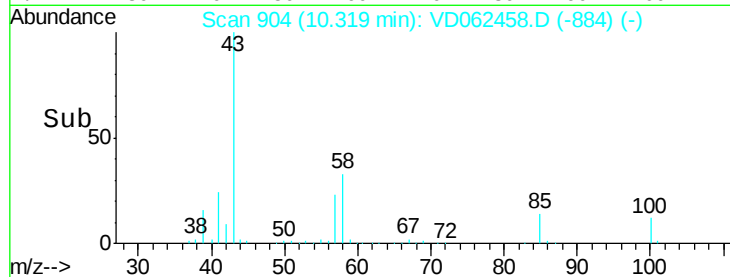
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 78.050 ug/l

RT: 10.53 min Scan# 925

Delta R.T. 0.00 min

Lab File: VD062458.D

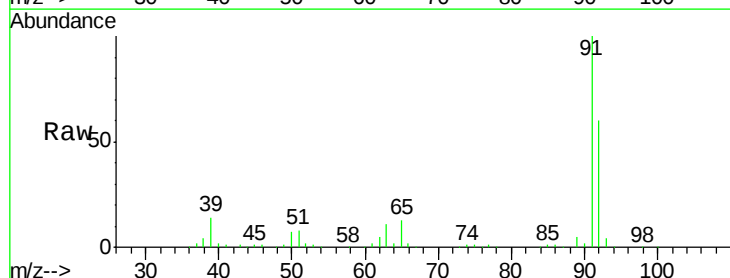
Acq: 20 May 2019 16:10

Tgt Ion: 92 Resp: 876055

Ion Ratio Lower Upper

92 100

91 165.7 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.53

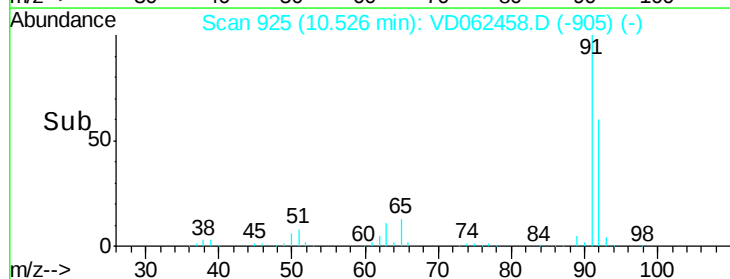
600000

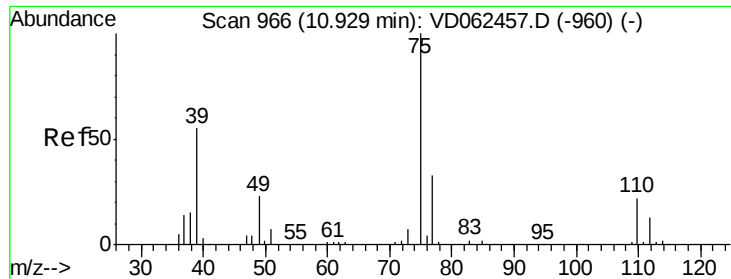
400000

200000

0

Time-->





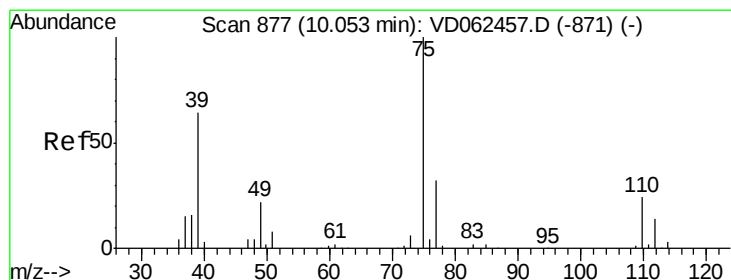
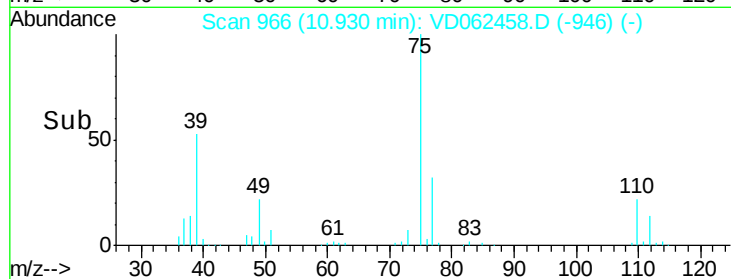
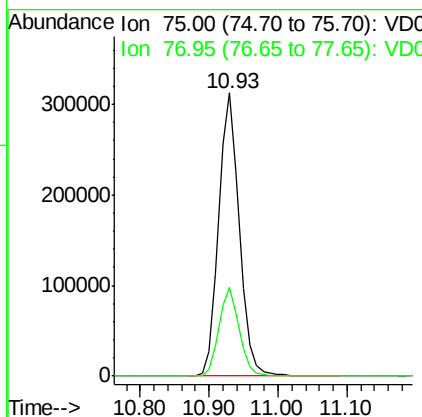
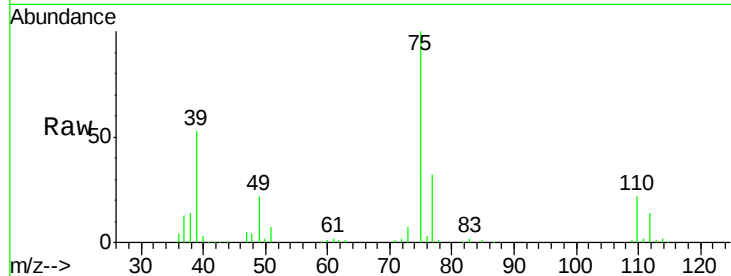
#53
t-1,3-Dichloropropene
Concen: 88.304 ug/l
RT: 10.93 min Scan# 966
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion: 75 Resp: 647769
Ion Ratio Lower Upper
75 100
77 31.5 25.8 38.8

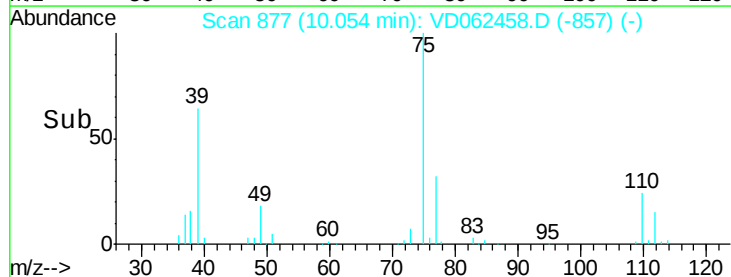
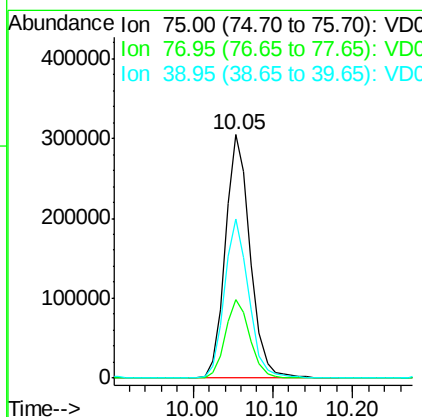
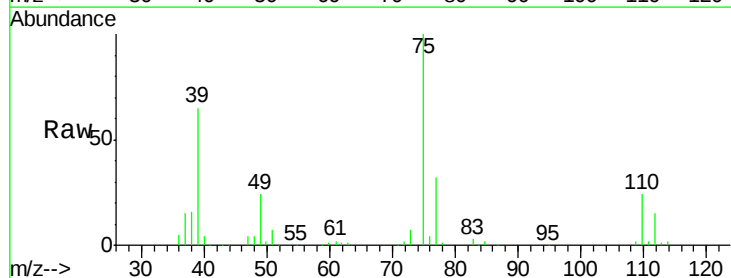
Manual Integrations
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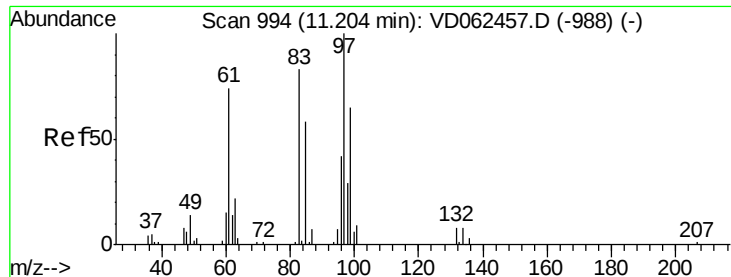
MMDadoda
5/22/2019 4:49:04 AM



#54
cis-1,3-Dichloropropene
Concen: 83.292 ug/l
RT: 10.05 min Scan# 877
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion: 75 Resp: 666562
Ion Ratio Lower Upper
75 100
77 32.4 25.5 38.3
39 65.3 39.4 59.2#





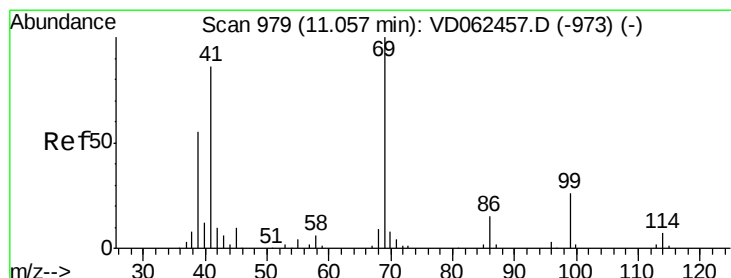
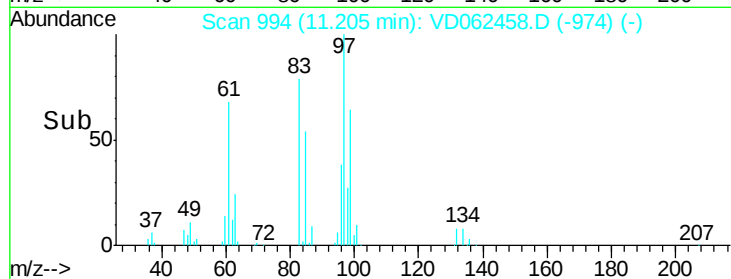
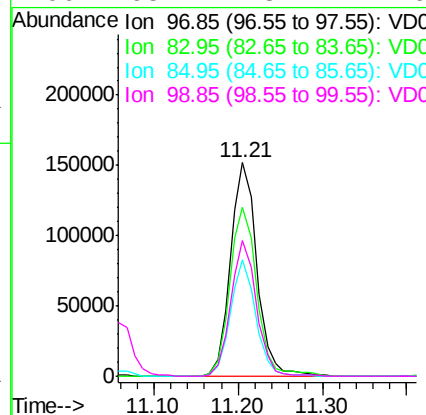
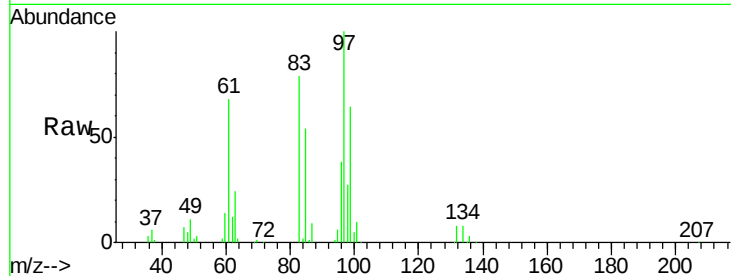
#55
 1,1,2-Trichloroethane
 Concen: 83.087 ug/l
 RT: 11.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC075

Tot Ion:	97	Resp:	329975
Ion	Ratio	Lower	Upper
97	100		
83	79.4	65.7	98.5
85	54.3	45.6	68.4
99	63.7	48.4	72.6

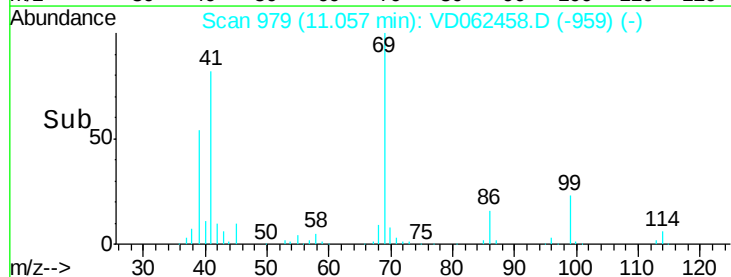
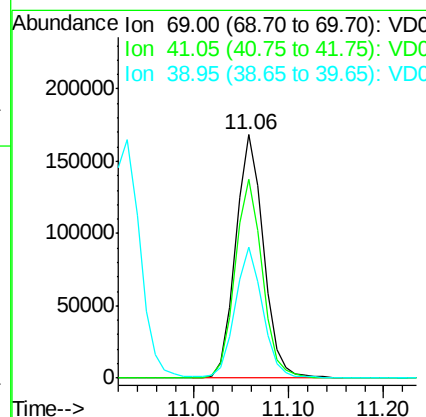
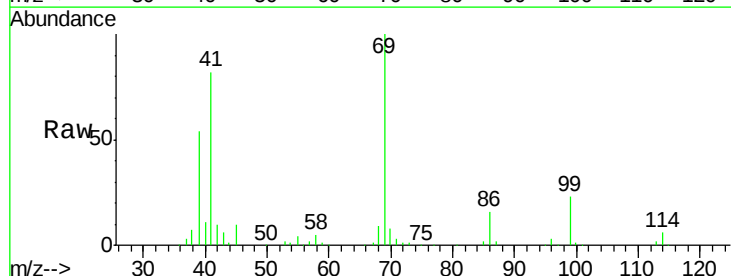
Manual Integrations
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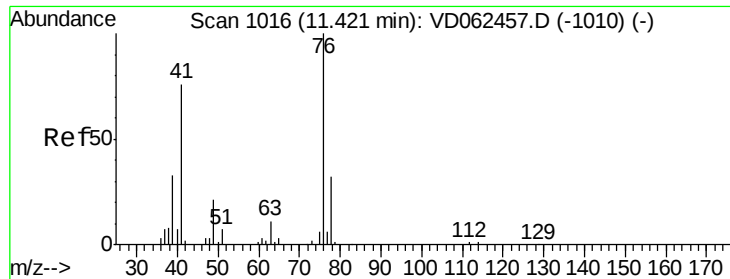
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 5/22/2019 4:49:04 AM



#56
 Ethyl methacrylate
 Concen: 83.018 ug/l
 RT: 11.06 min Scan# 979
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion:	69	Resp:	342608
Ion	Ratio	Lower	Upper
69	100		
41	81.8	56.3	84.5
39	53.5	29.4	44.2#





#57

1,3-Dichloropropane

Concen: 79.157 ug/l

RT: 11.42 min Scan# 1016

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion: 76 Resp: 474934

Ion Ratio Lower Upper

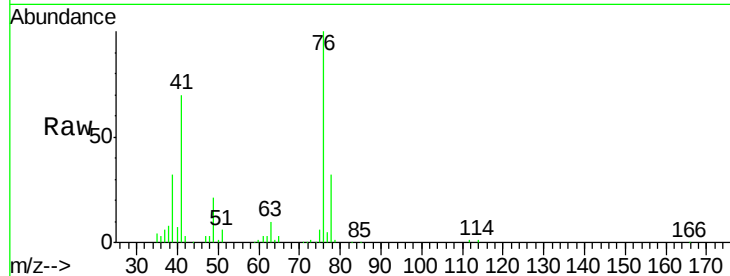
76 100

78 31.9 26.2 39.2

Manual Integrations
APPROVED

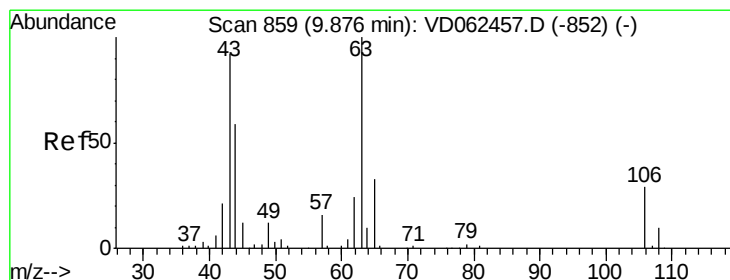
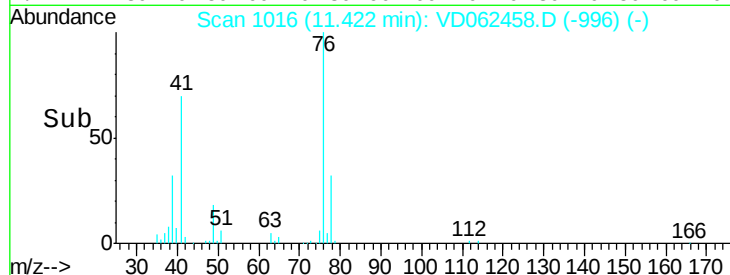
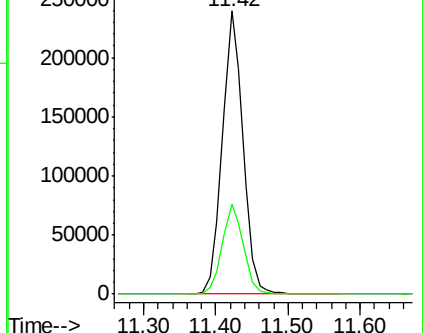
MMDadoda

5/22/2019 4:49:04 AM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 392.395 ug/l

RT: 9.88 min Scan# 859

Delta R.T. 0.00 min

Lab File: VD062458.D

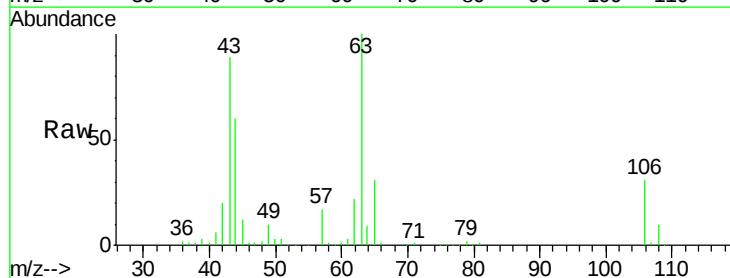
Acq: 20 May 2019 16:10

Tgt Ion: 63 Resp: 884561

Ion Ratio Lower Upper

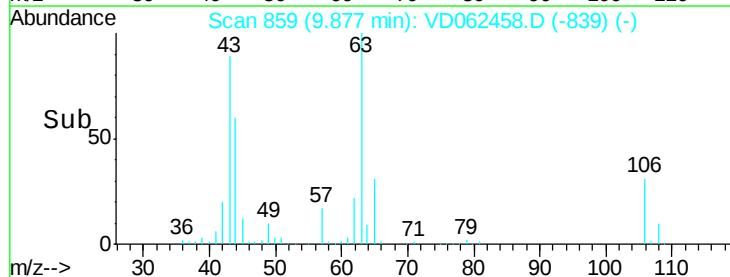
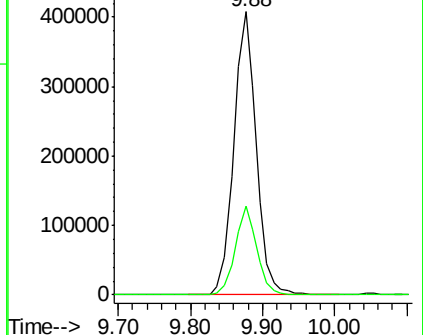
63 100

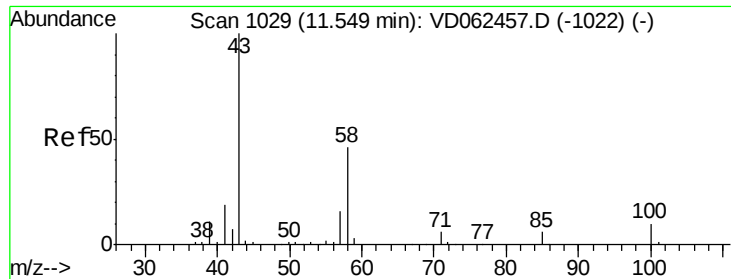
106 31.2 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





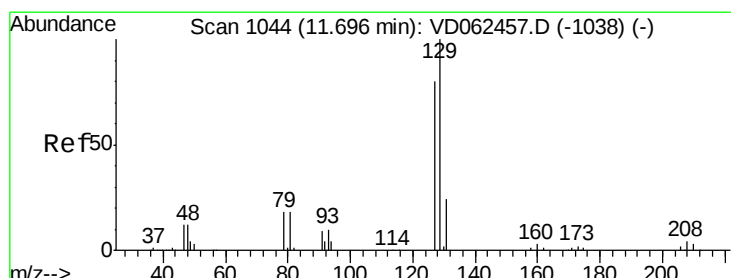
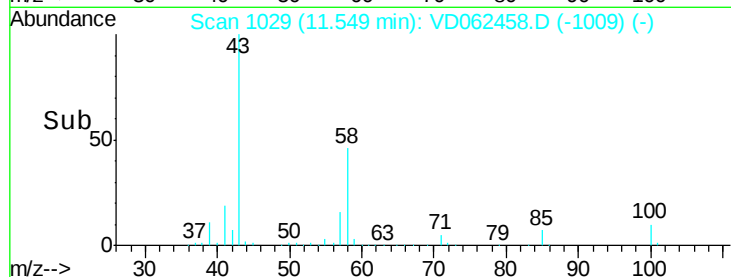
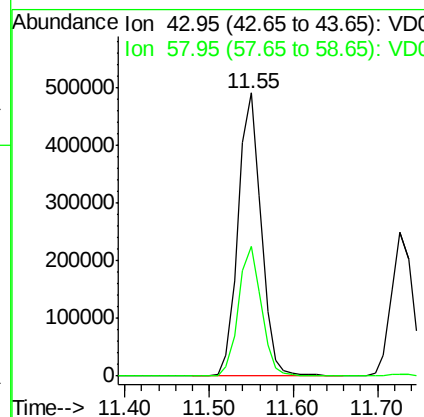
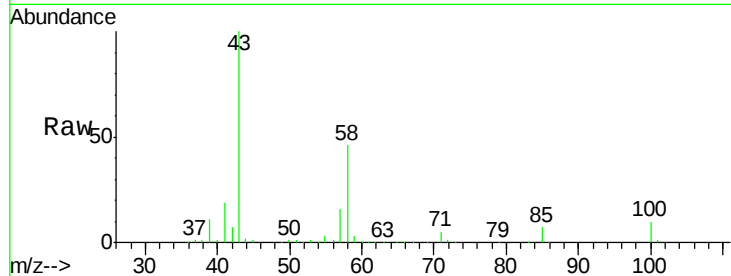
#59
2-Hexanone
Concen: 428.446 ug/l
RT: 11.55 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion: 43 Resp: 932696
Ion Ratio Lower Upper
43 100
58 45.7 25.4 76.4

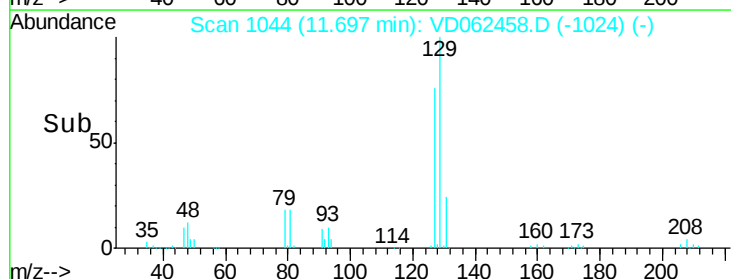
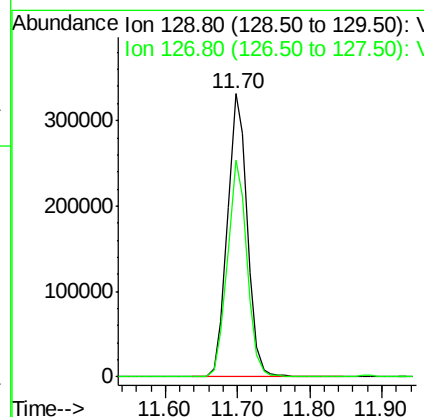
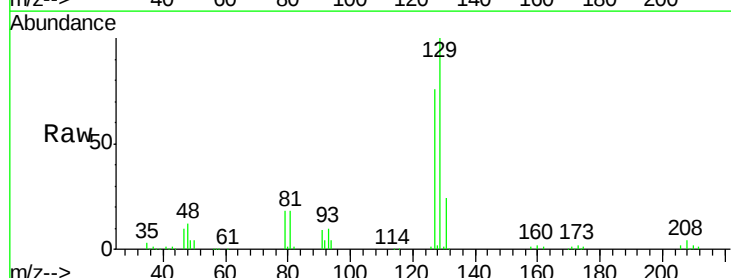
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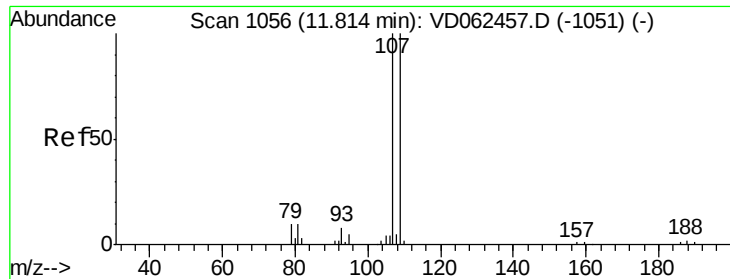
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#60
Dibromochloromethane
Concen: 91.885 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion: 129 Resp: 630649
Ion Ratio Lower Upper
129 100
127 76.4 38.0 113.9





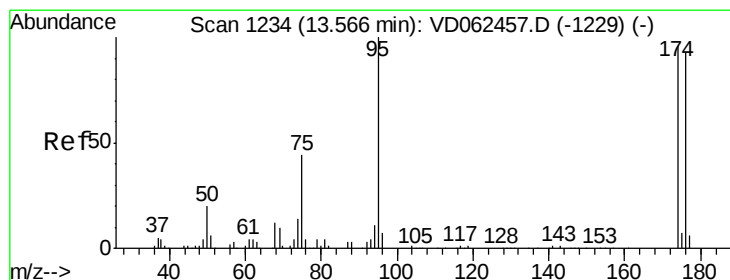
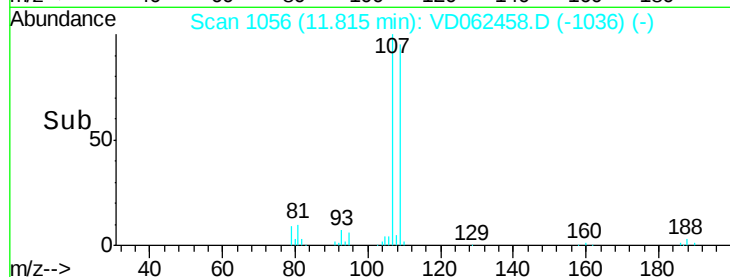
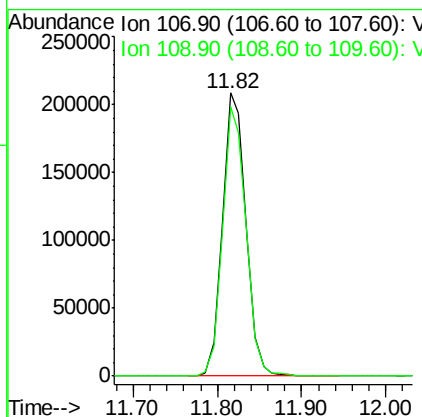
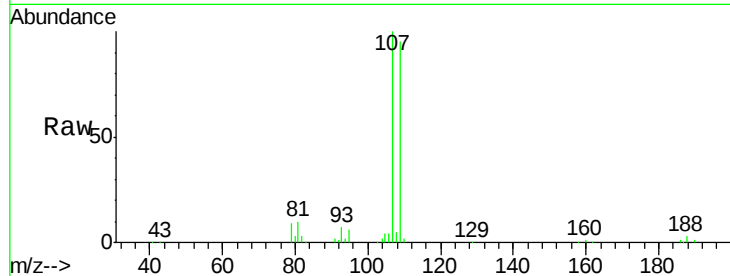
#61
 1,2-Dibromoethane
 Concen: 82.800 ug/l
 RT: 11.82 min Scan# 1056
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.4	78.3	117.5

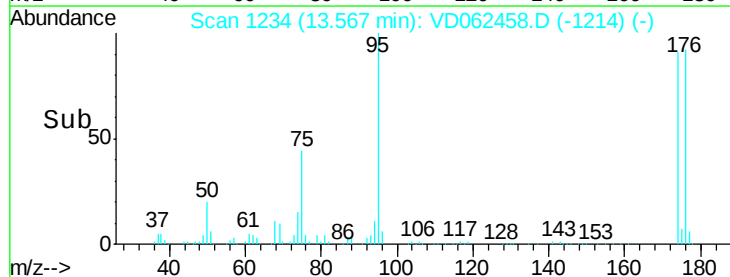
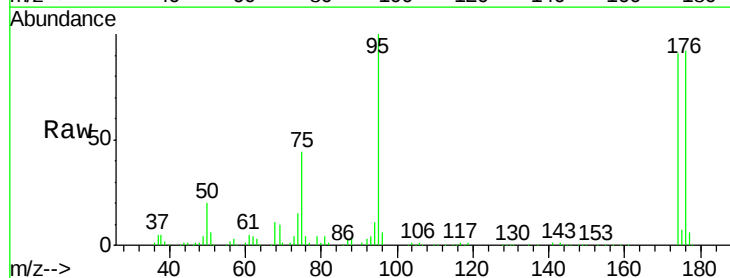
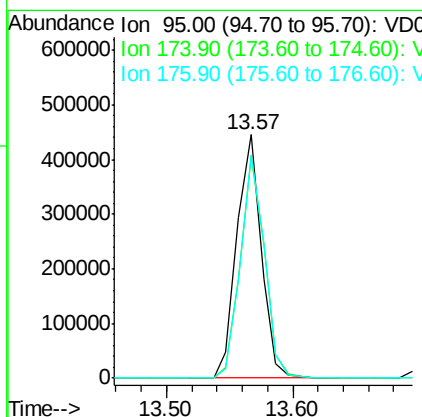
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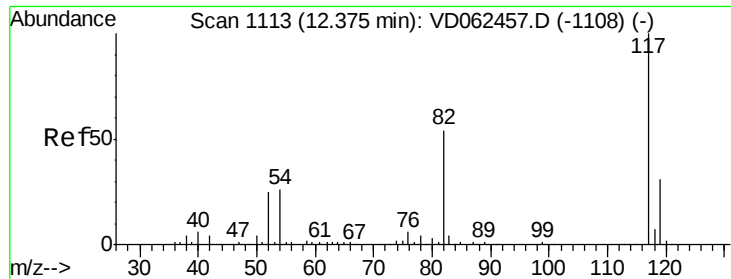
MMDadoda
 5/22/2019 4:49:04 AM



#62
 4-Bromofluorobenzene
 Concen: 79.450 ug/l
 RT: 13.57 min Scan# 1234
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.1	0.0	181.8
176	91.9	0.0	174.4





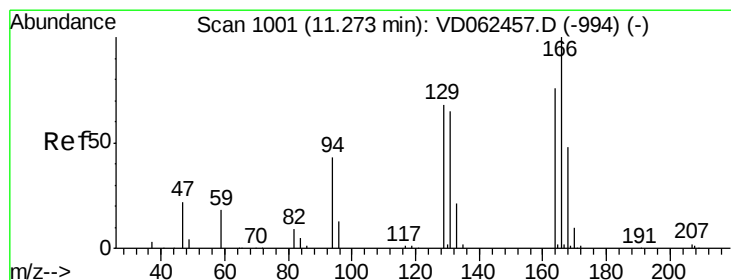
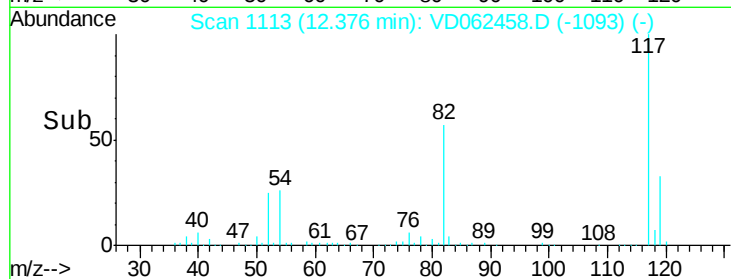
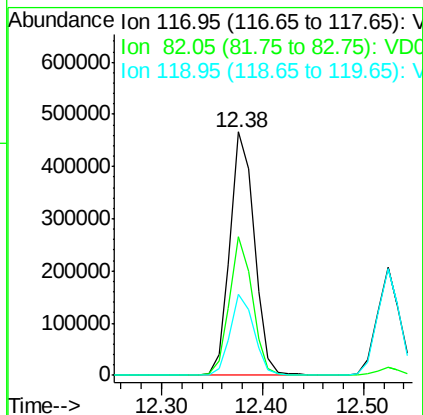
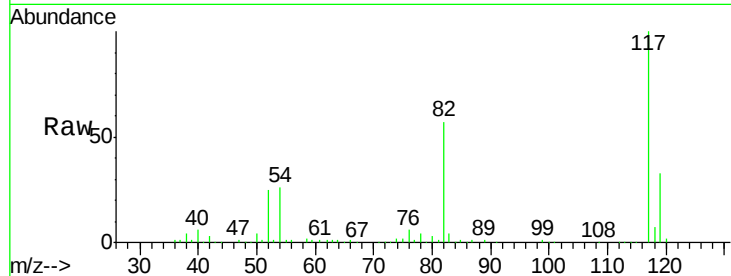
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	36.2	54.2#
119	33.1	26.2	39.4

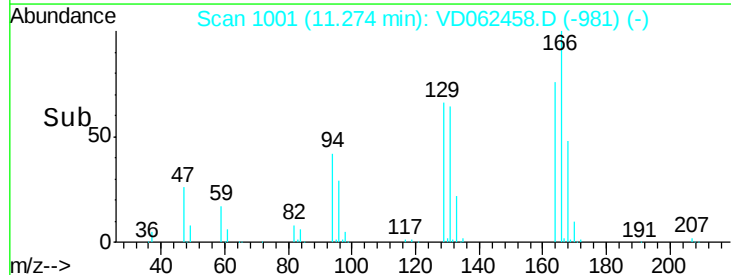
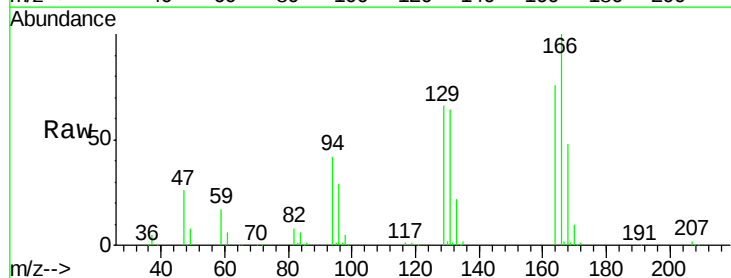
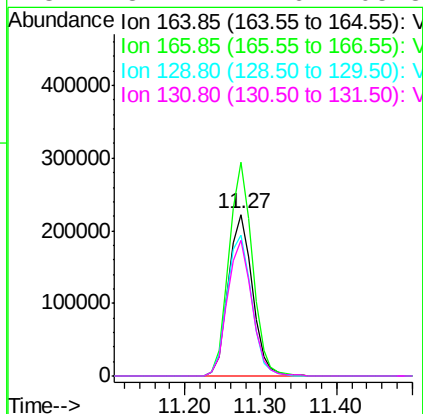
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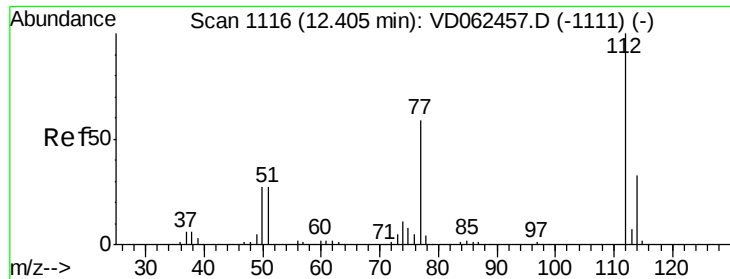
MMDadoda
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#64
Tetrachloroethene
Concen: 79.838 ug/l
RT: 11.27 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.0	101.5	152.3
129	87.0	74.6	112.0
131	84.2	72.6	108.8





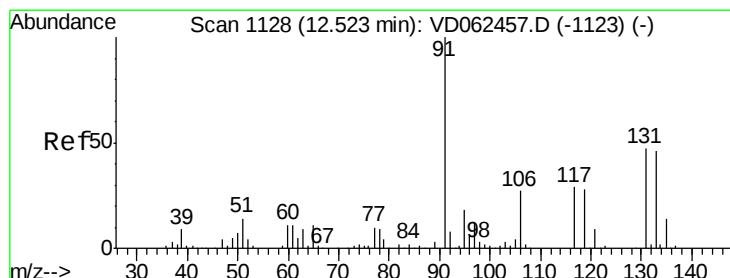
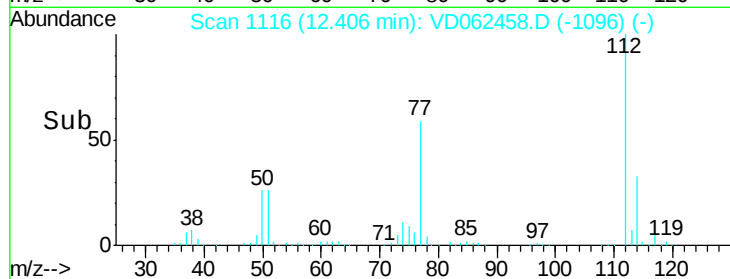
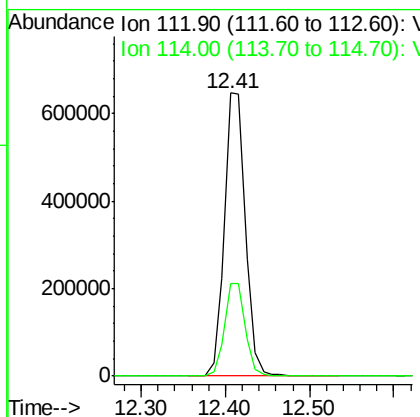
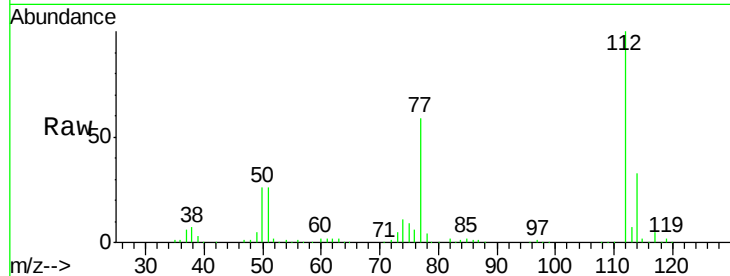
#65
Chlorobenzene
Concen: 76.774 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion:112 Resp: 1119513
Ion Ratio Lower Upper
112 100
114 32.7 25.8 38.8

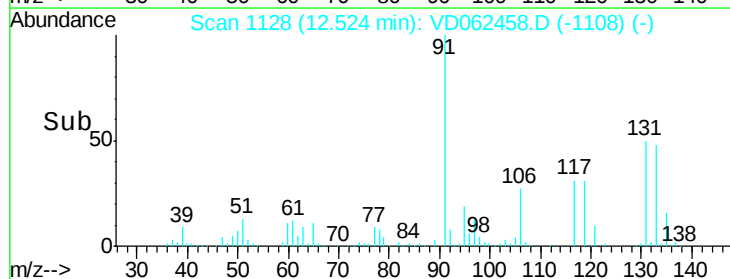
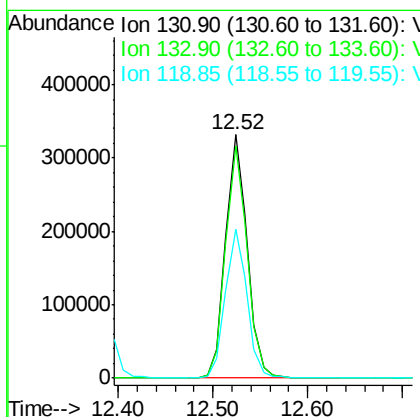
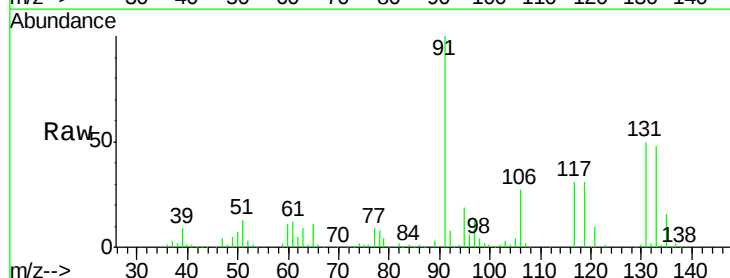
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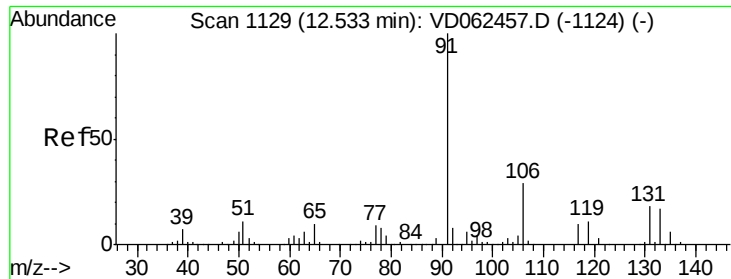
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#66
1,1,1,2-Tetrachloroethane
Concen: 82.646 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion:131 Resp: 524499
Ion Ratio Lower Upper
131 100
133 95.2 48.6 145.8
119 61.2 34.7 104.1





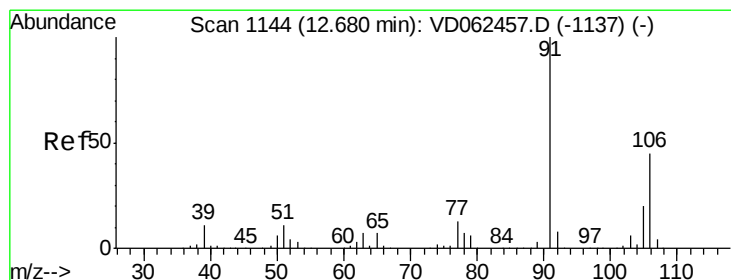
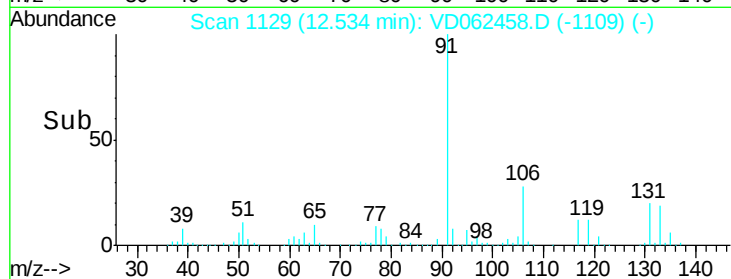
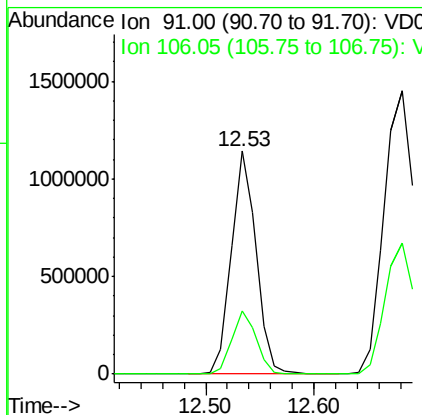
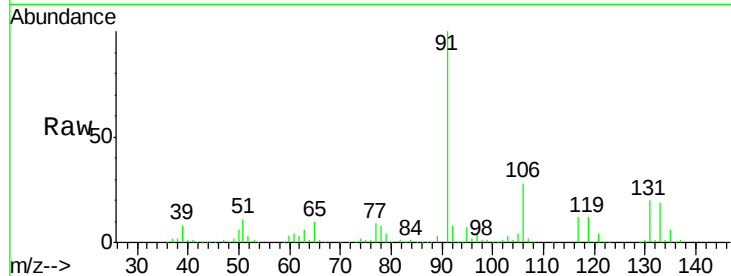
#67
Ethyl Benzene
Concen: 74.450 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion: 91 Resp: 1817517
Ion Ratio Lower Upper
91 100
106 28.3 24.7 37.1

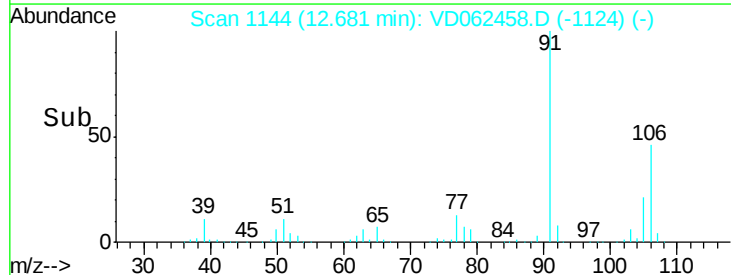
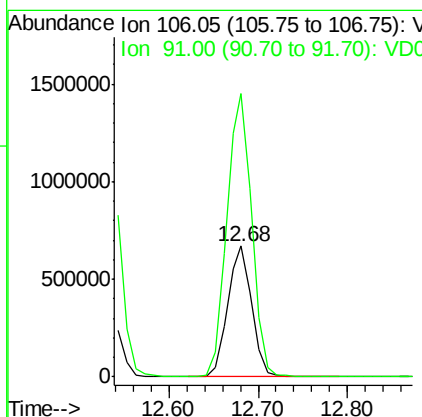
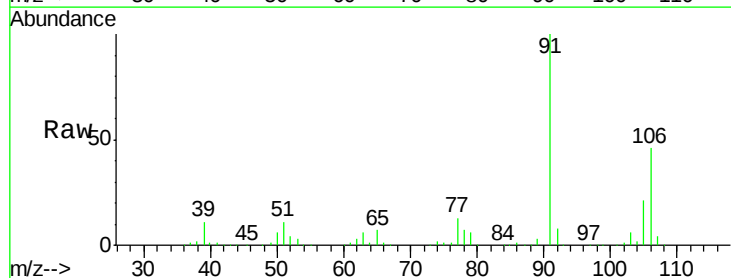
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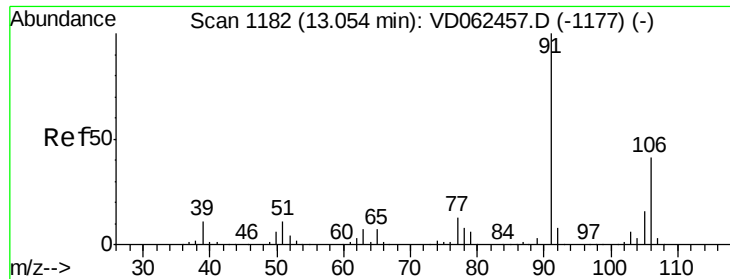
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#68
m/p-Xylenes
Concen: 142.806 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion:106 Resp: 1268380
Ion Ratio Lower Upper
106 100
91 216.7 164.0 246.0





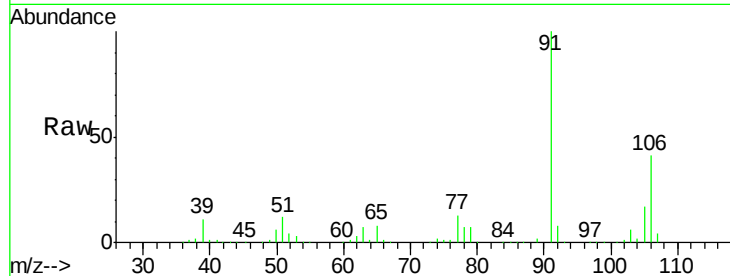
#69
o-Xylene
Concen: 76.826 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

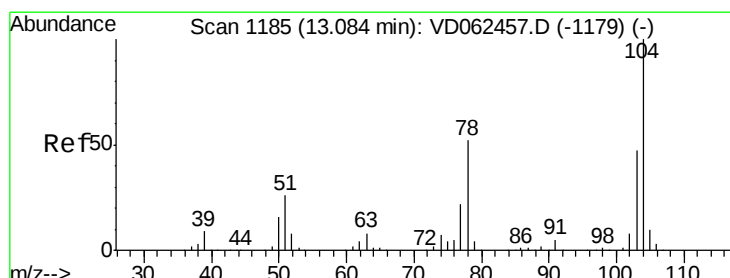
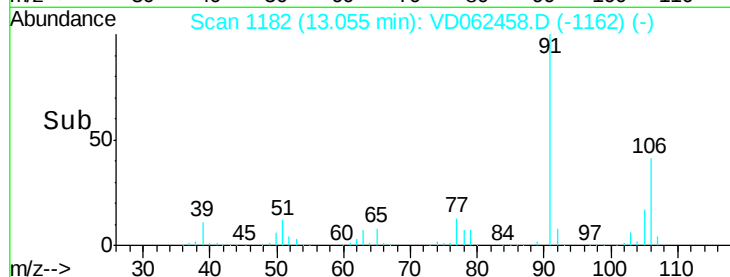
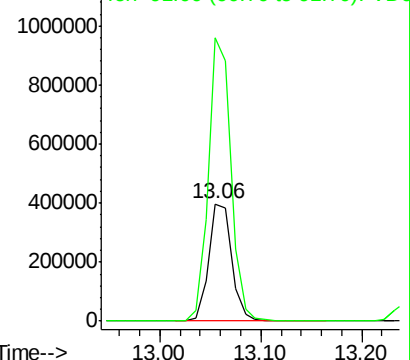
Tot Ion:106 Resp: 634378
Ion Ratio Lower Upper
106 100
91 242.0 106.7 319.9

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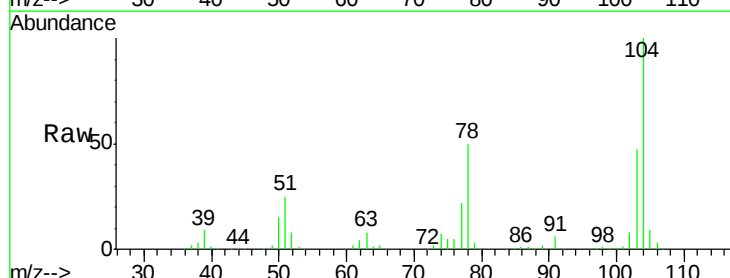


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

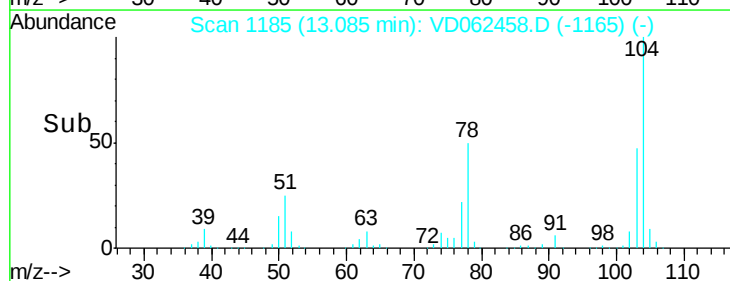
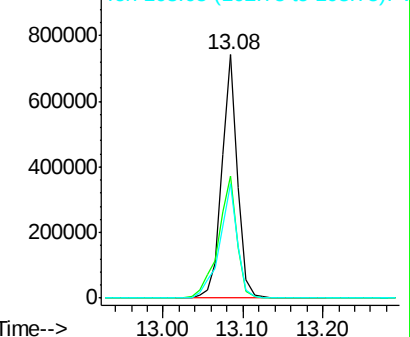


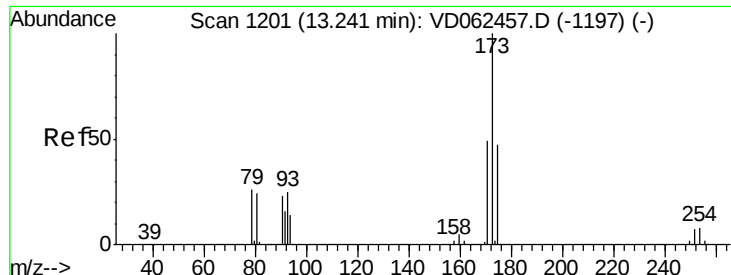
#70
Styrene
Concen: 73.250 ug/l
RT: 13.08 min Scan# 1185
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion:104 Resp: 1024618
Ion Ratio Lower Upper
104 100
78 50.0 35.4 53.2
103 46.9 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: 84.192 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion:173 Resp: 371737

Ion Ratio Lower Upper

173 100

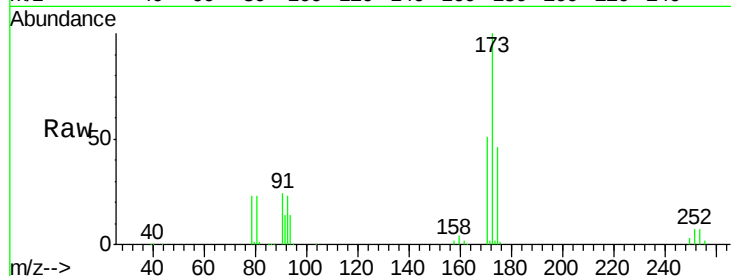
175 45.7 24.4 73.4

254 7.4 5.4 8.2

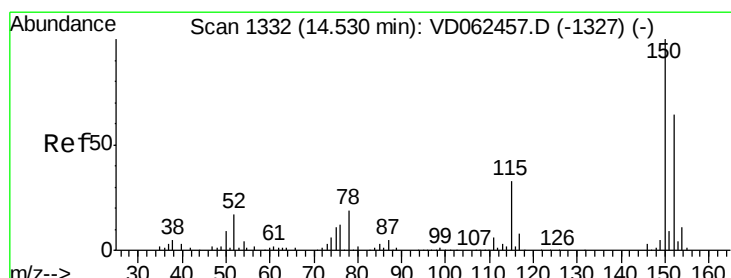
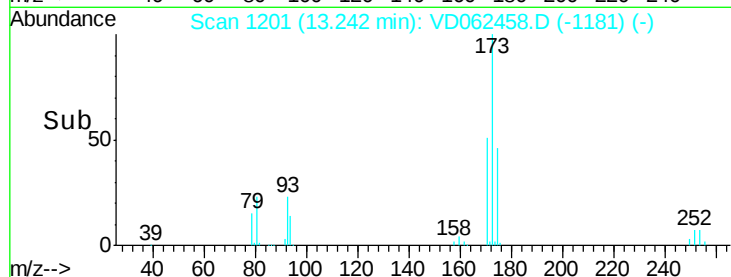
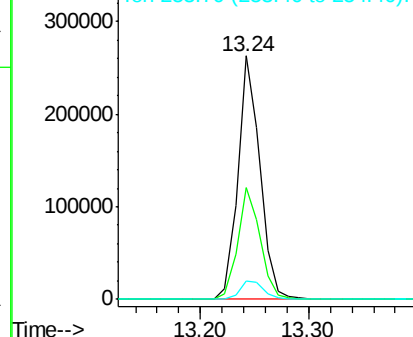
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Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

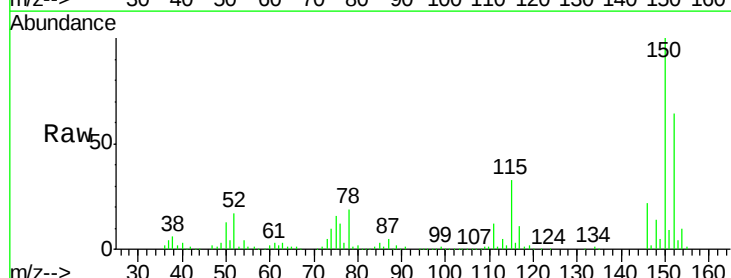
Tgt Ion:152 Resp: 439968

Ion Ratio Lower Upper

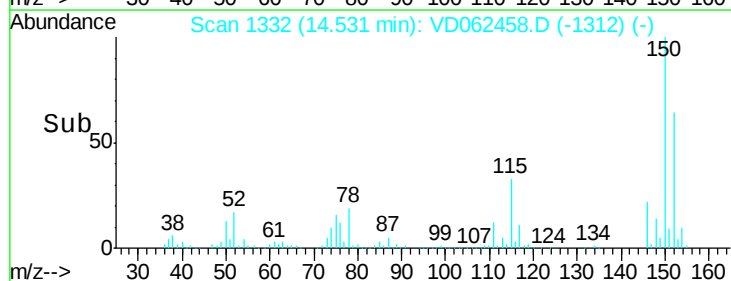
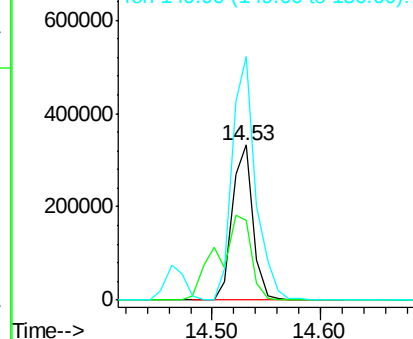
152 100

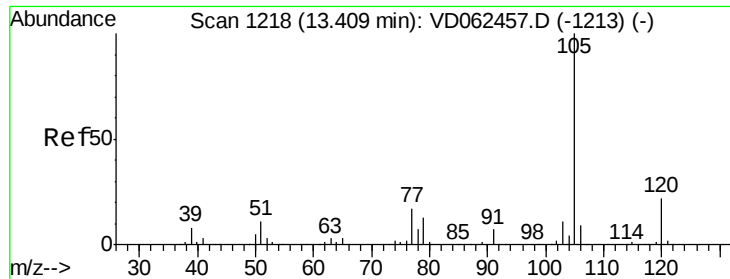
115 51.8 30.9 92.7

150 157.4 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: 69.403 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1830379

Ion Ratio Lower Upper

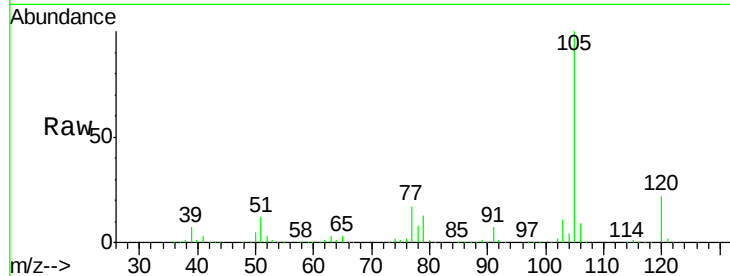
105 100

120 21.9 12.0 36.1

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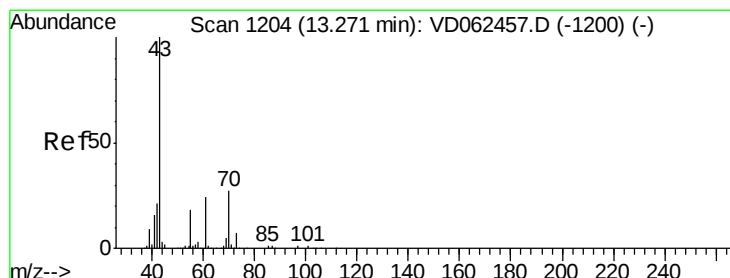
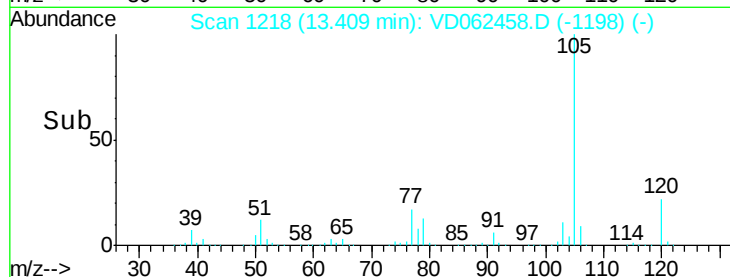
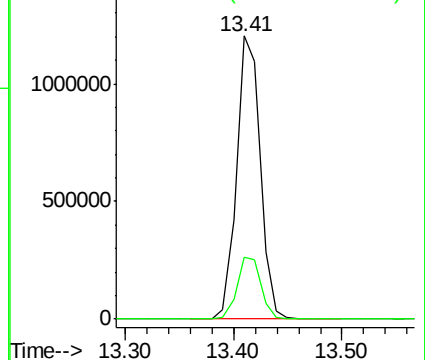
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 71.595 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion: 43 Resp: 495038

Ion Ratio Lower Upper

43 100

70 27.0 24.2 36.4

55 18.8 16.0 24.0

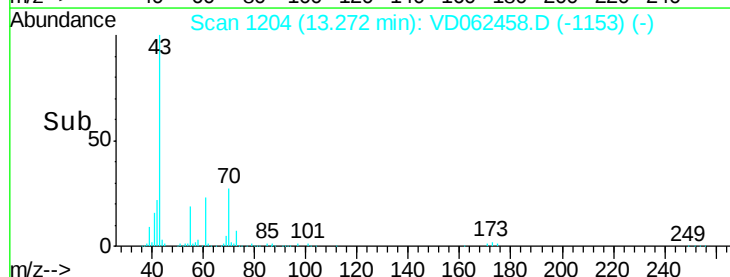
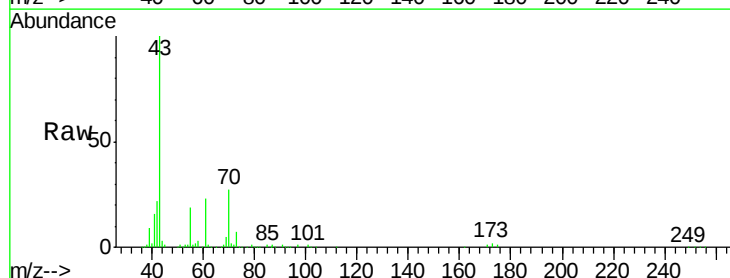
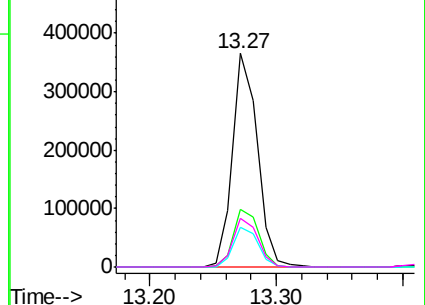
61 23.0 21.6 32.4

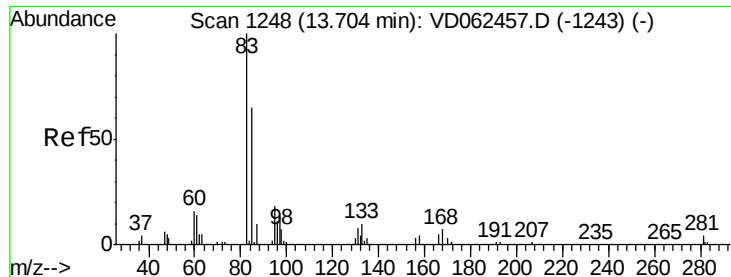
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 74.533 ug/l

RT: 13.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

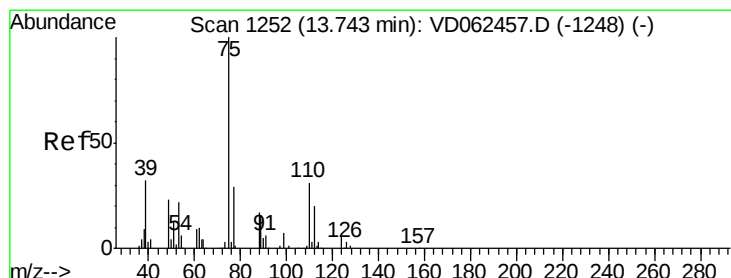
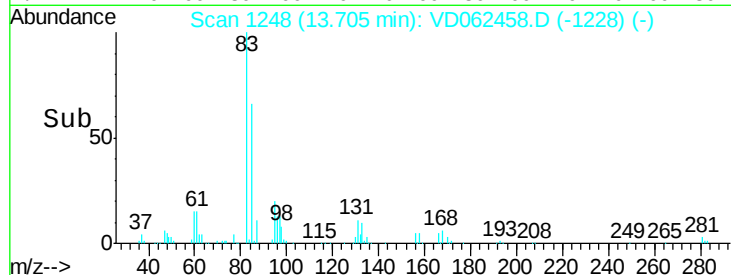
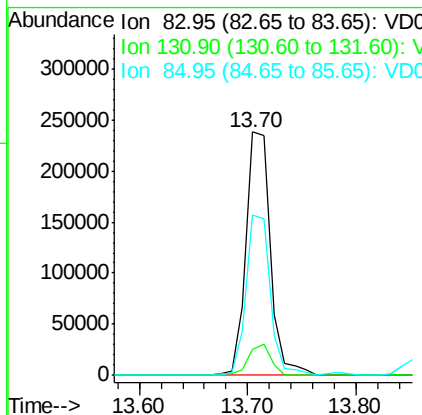
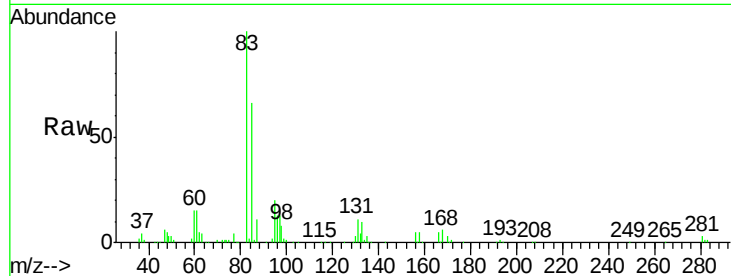
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	372125
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.0	14.9
85	65.8	32.6	97.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 73.375 ug/l

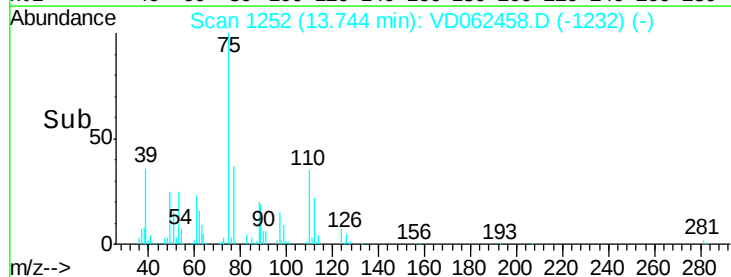
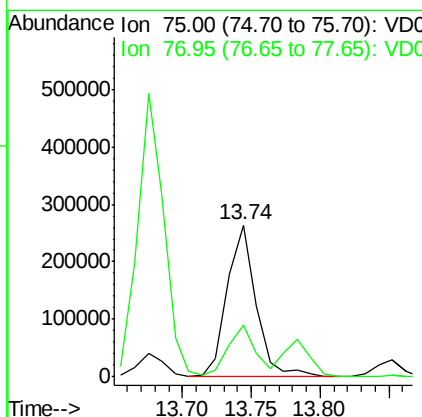
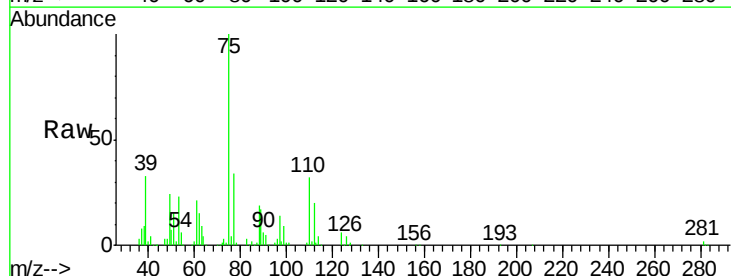
RT: 13.74 min Scan# 1252

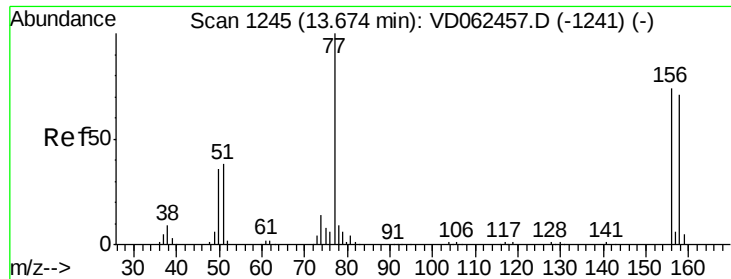
Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion:	75	Resp:	383654
Ion Ratio	Lower	Upper	
75	100		
77	33.6	16.4	49.4





#77

Bromobenzene

Concen: 74.617 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

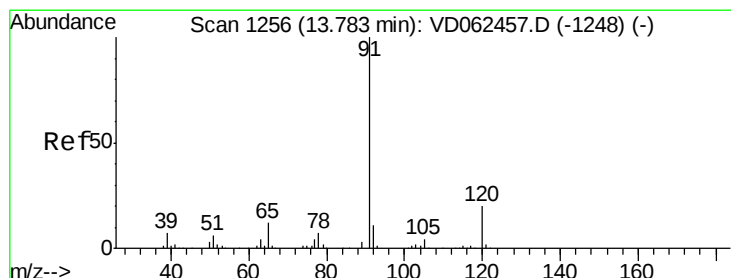
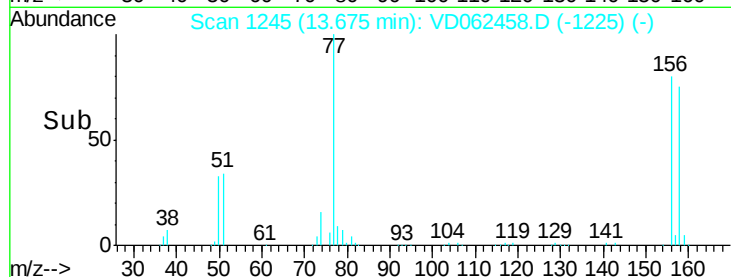
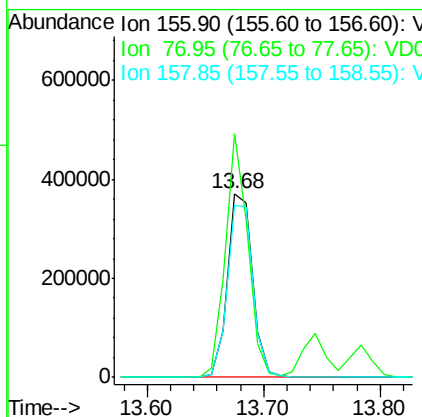
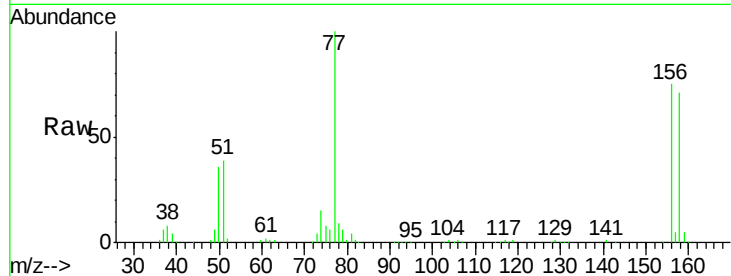
ClientSampleId :

VSTDIC075

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		550882		
77	132.7	53.1	159.4		
158	93.7	49.4	148.0		

Manual Integrations
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#78

n-propylbenzene

Concen: 65.528 ug/l

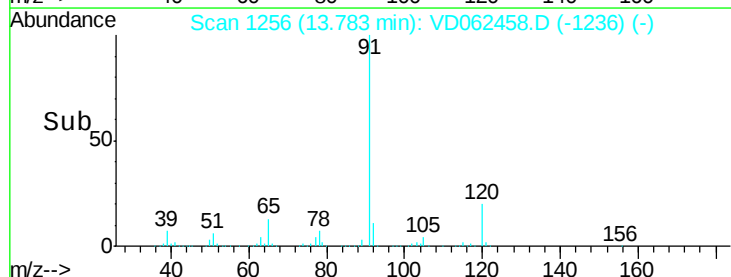
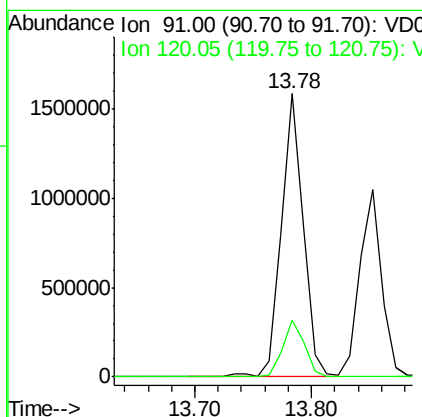
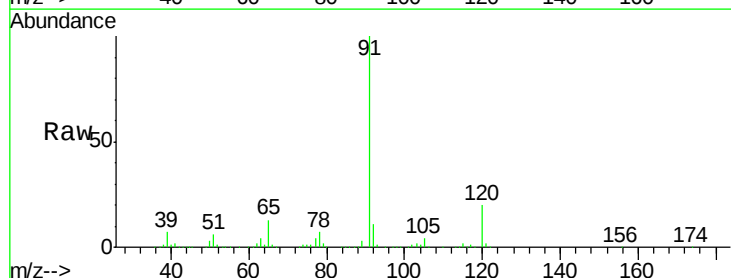
RT: 13.78 min Scan# 1256

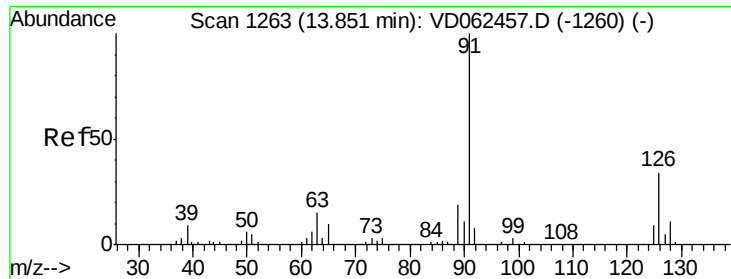
Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		2061519		
120	20.0	11.1	33.1		





#79

2-Chlorotoluene

Concen: 75.456 ug/l

RT: 13.85 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 1359553

Ion Ratio Lower Upper

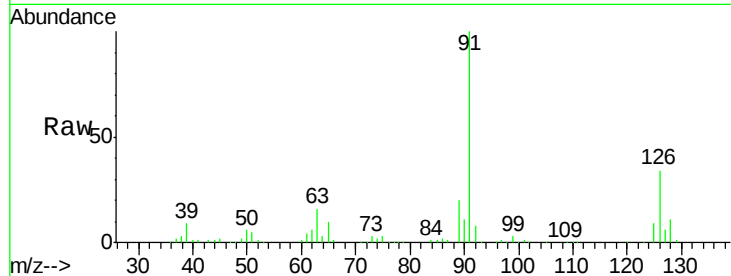
91 100

126 33.9 18.6 55.8

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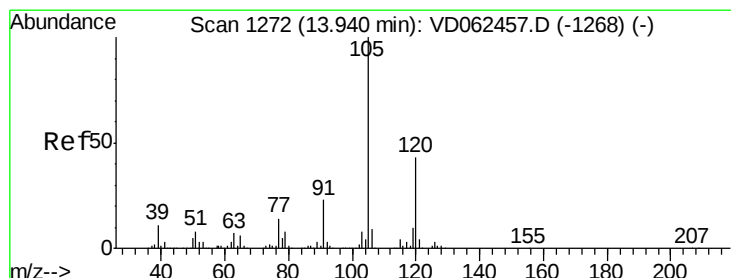
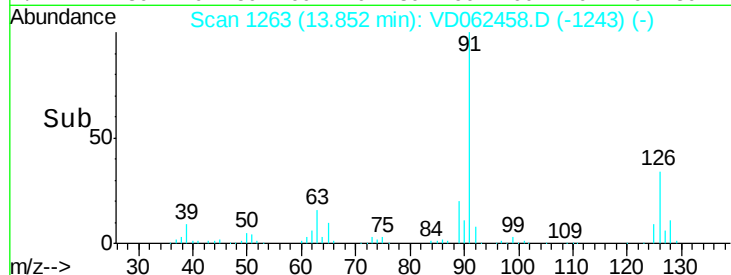
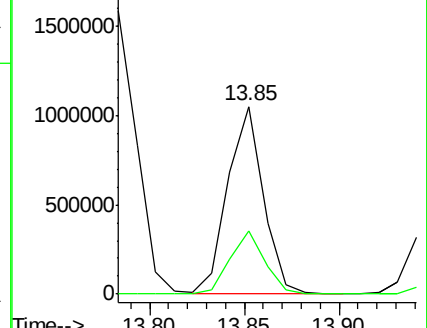
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Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 75.498 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD062458.D

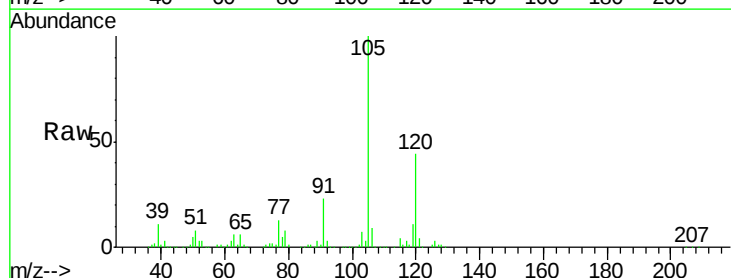
Acq: 20 May 2019 16:10

Tgt Ion:105 Resp: 1676689

Ion Ratio Lower Upper

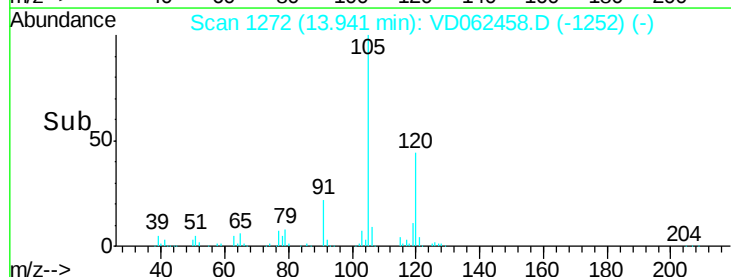
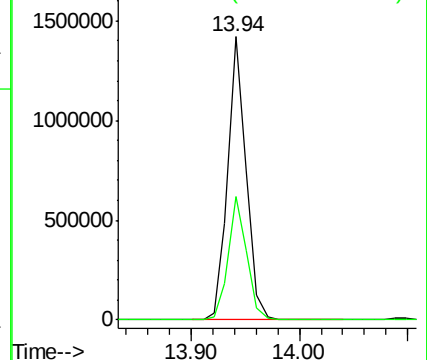
105 100

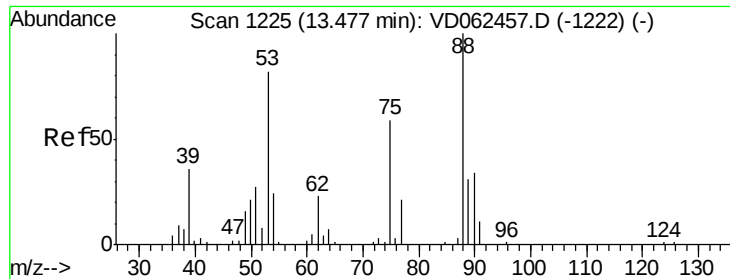
120 43.6 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





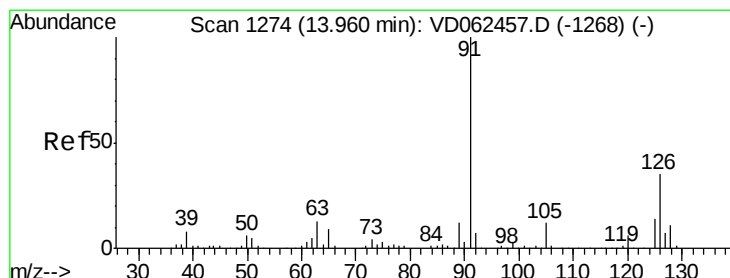
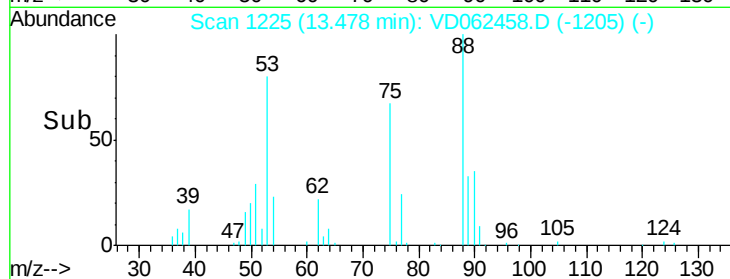
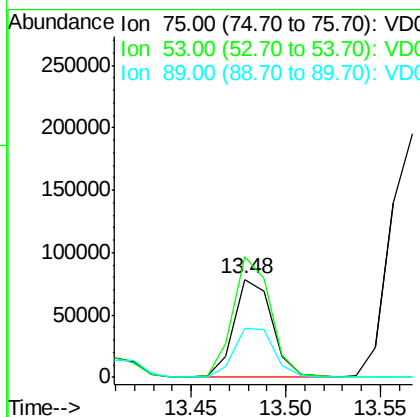
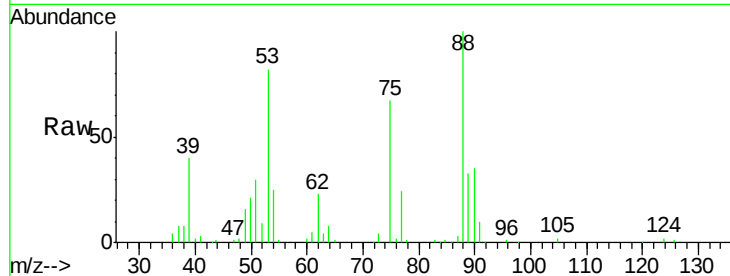
#81
trans-1,4-Dichloro-2-butene
Concen: 74.209 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampled :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
53	123.7	65.8	98.8#	
89	49.9	35.0	52.6	

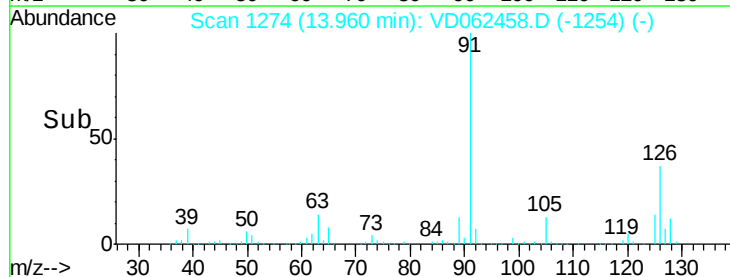
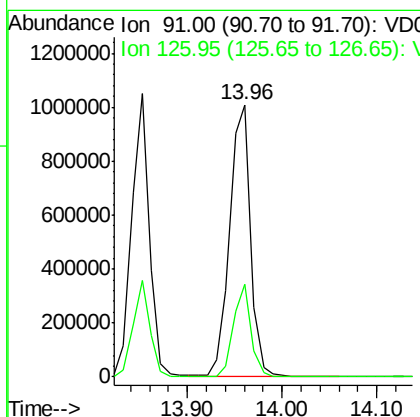
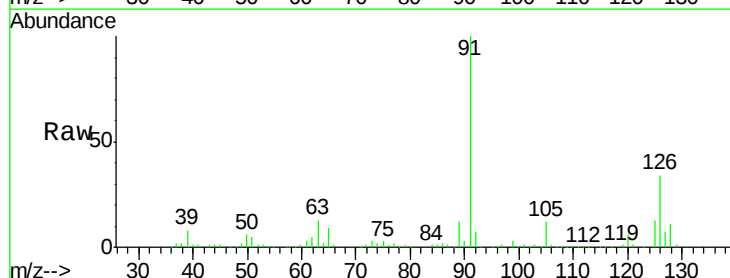
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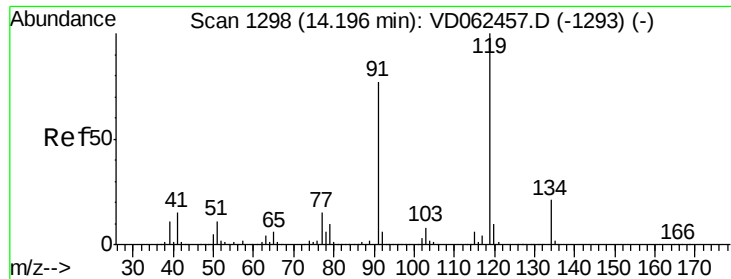
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#82
4-Chlorotoluene
Concen: 72.640 ug/l
RT: 13.96 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
126	33.9	19.1	57.5	





#83

tert-Butylbenzene

Concen: 71.497 ug/l

RT: 14.20 min Scan# 1298

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

ClientSampled :

VSTDIC075

Tot Ion:119 Resp: 1784698

Ion Ratio Lower Upper

119 100

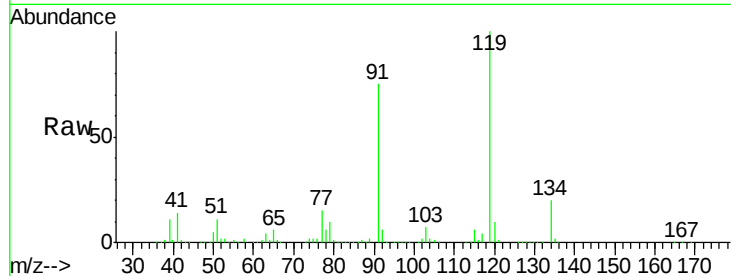
91 74.6 34.2 102.6

134 20.4 12.0 36.0

Manual Integrations
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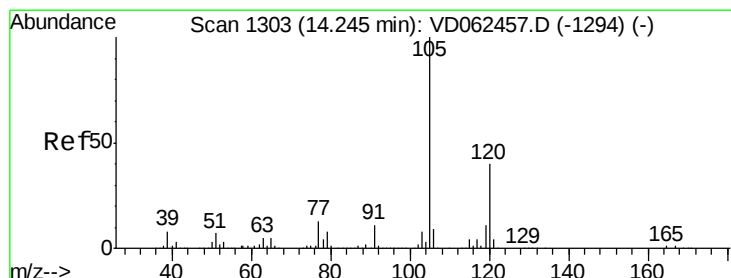
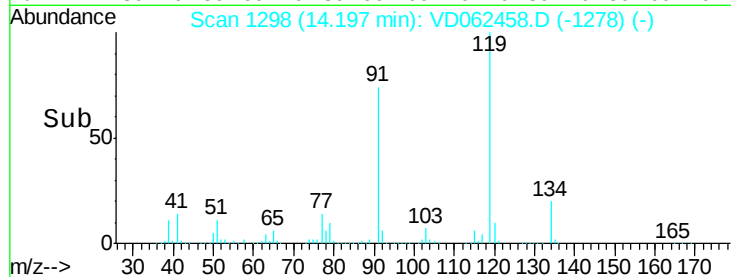
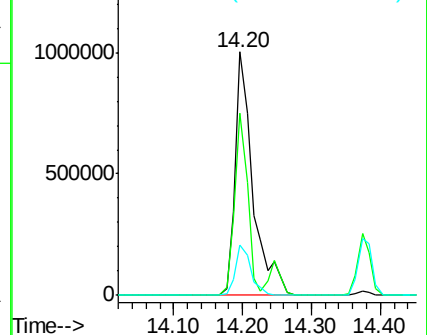
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Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 70.571 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.00 min

Lab File: VD062458.D

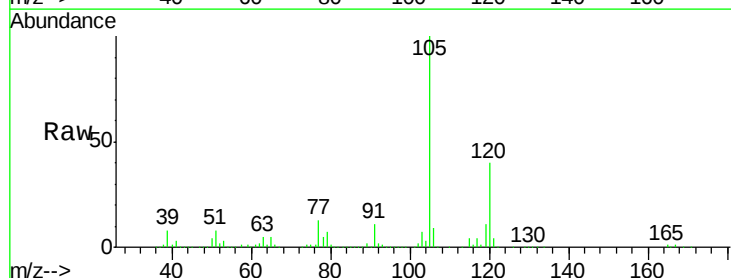
Acq: 20 May 2019 16:10

Tgt Ion:105 Resp: 1572734

Ion Ratio Lower Upper

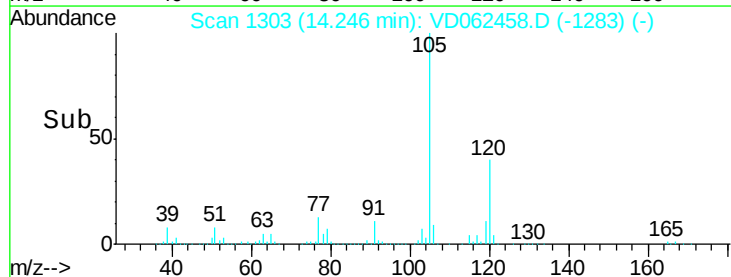
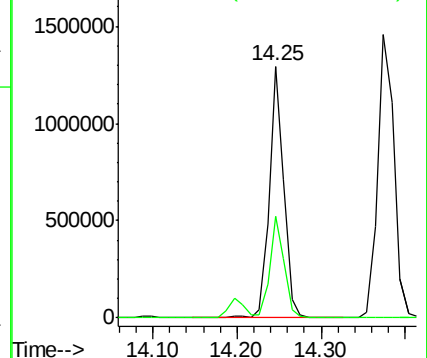
105 100

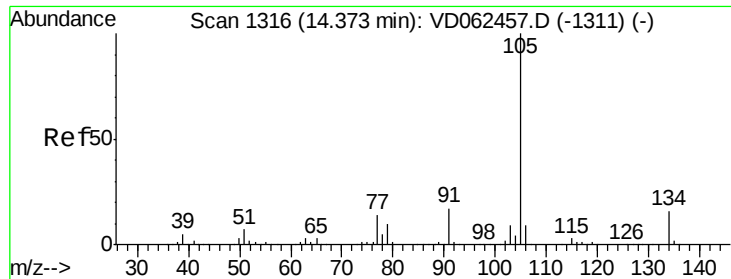
120 40.3 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





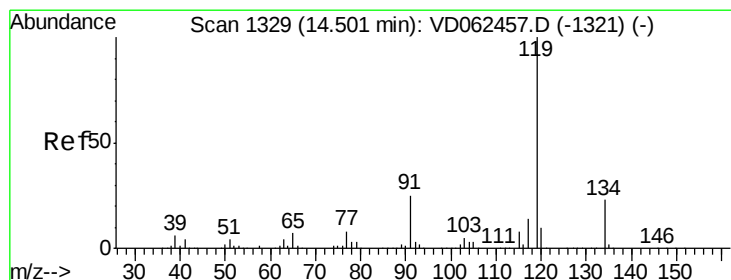
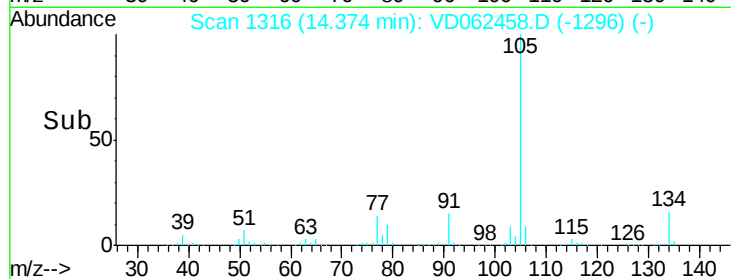
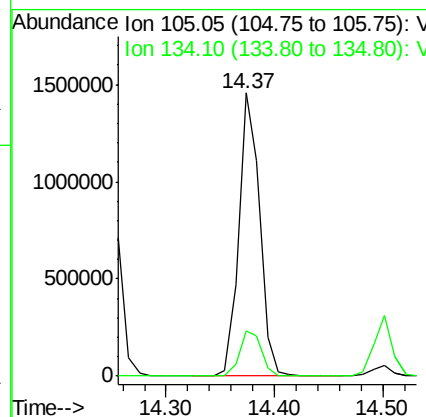
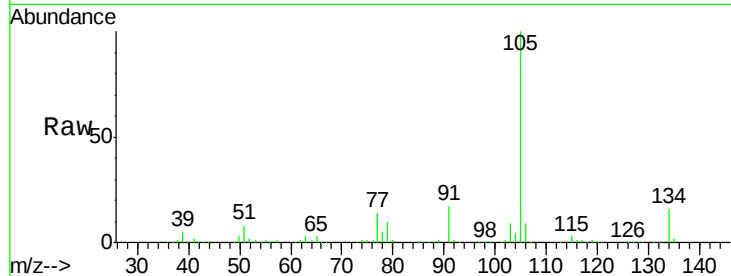
#85
 sec-Butylbenzene
 Concen: 71.041 ug/l
 RT: 14.37 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC075

Tot Ion:105 Resp: 1944288
 Ion Ratio Lower Upper
 105 100
 134 16.2 8.9 26.7

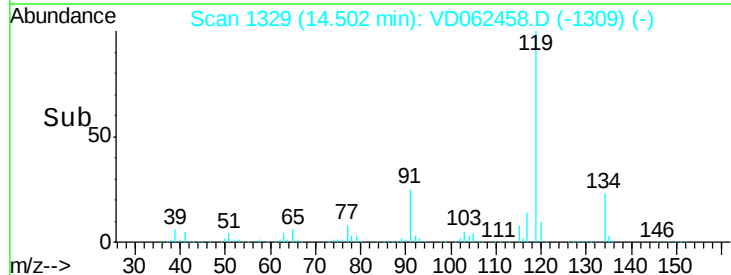
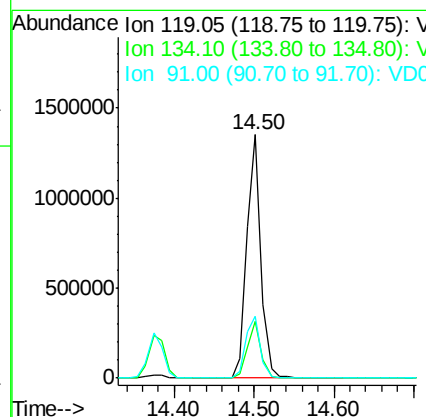
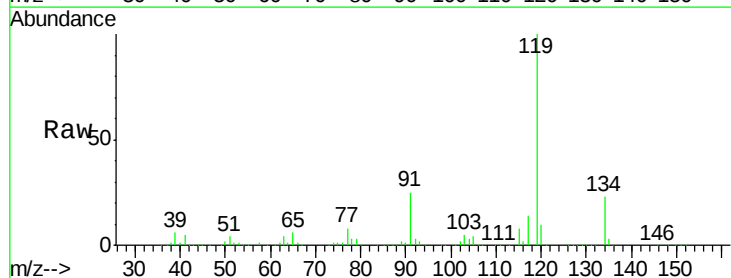
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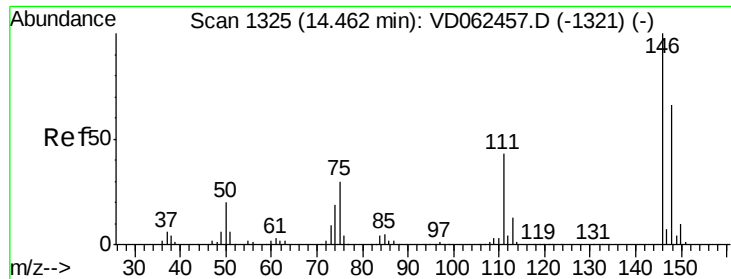
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#86
 p-Isopropyltoluene
 Concen: 67.397 ug/l
 RT: 14.50 min Scan# 1329
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion:119 Resp: 1648004
 Ion Ratio Lower Upper
 119 100
 134 23.1 12.8 38.3
 91 25.3 10.7 32.1





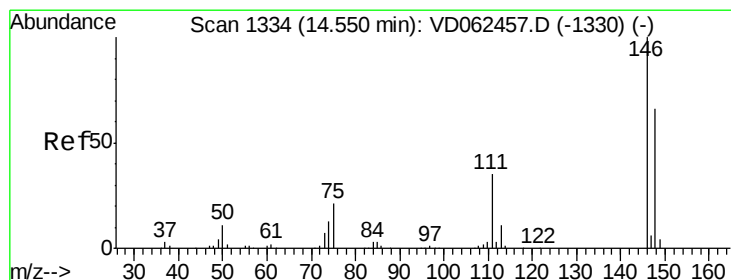
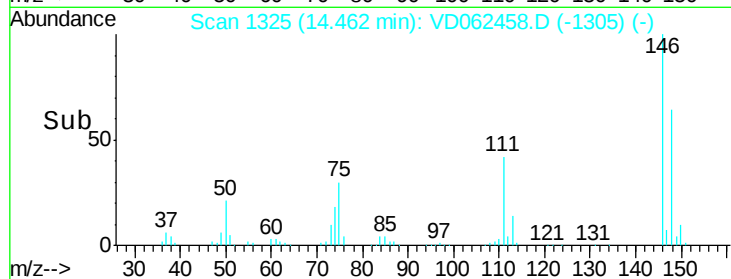
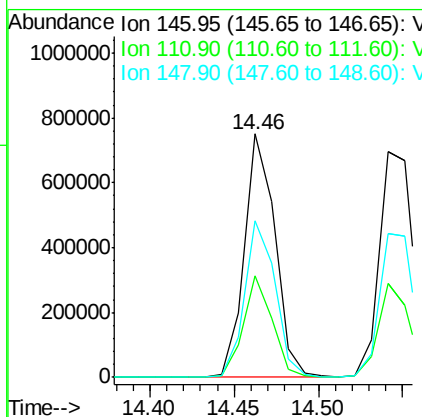
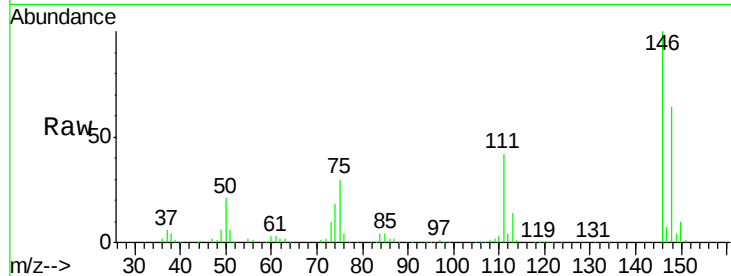
#87
 1,3-Dichlorobenzene
 Concen: 70.563 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.0	60.0
148	64.1	31.8	95.4

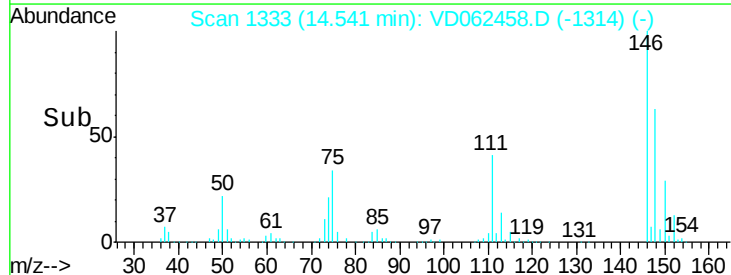
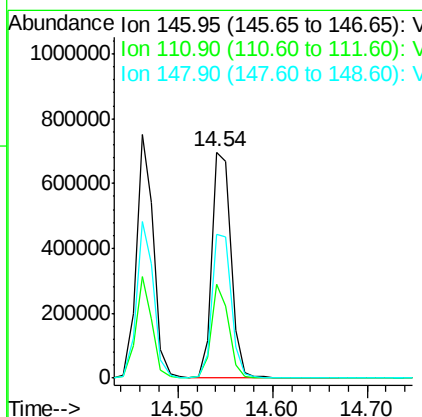
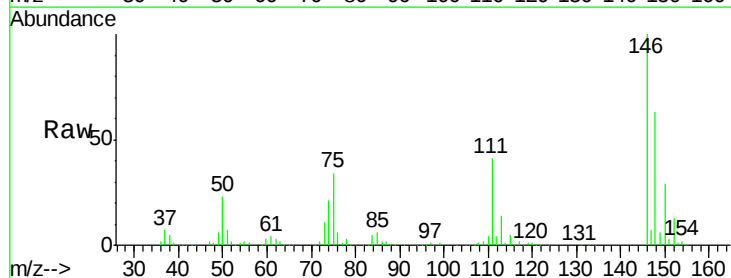
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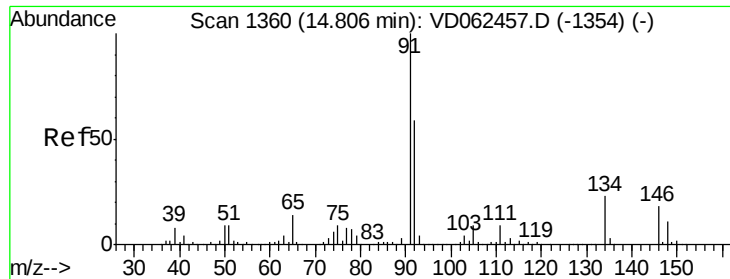
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#88
 1,4-Dichlorobenzene
 Concen: 74.139 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.5
148	63.4	32.0	96.2





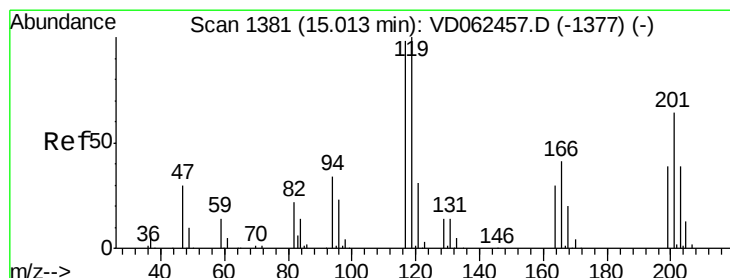
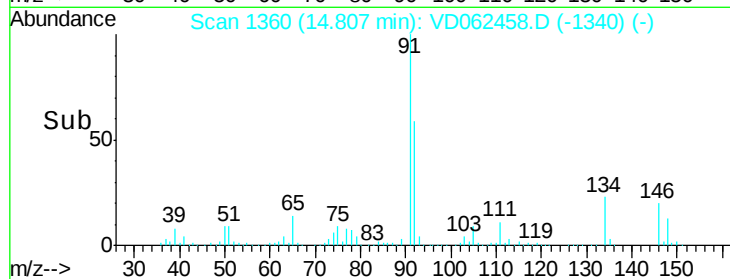
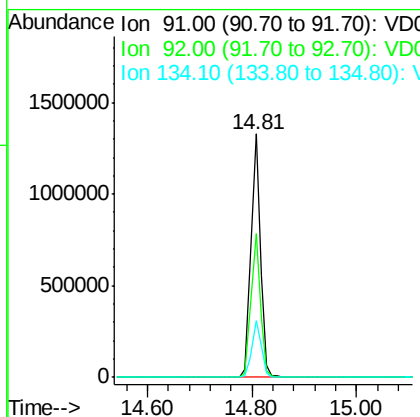
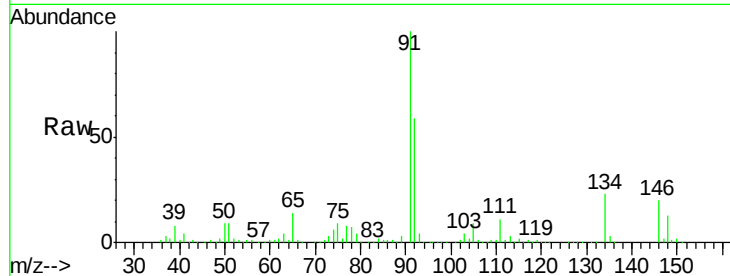
#89
n-Butylbenzene
Concen: 70.800 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC075

Tot Ion: 91 Resp: 1553885
Ion Ratio Lower Upper
91 100
92 58.8 30.3 91.0
134 23.4 14.5 43.6

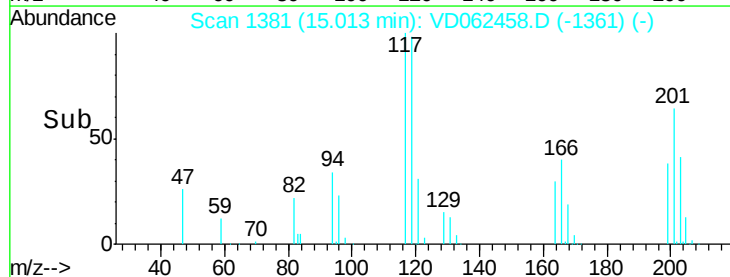
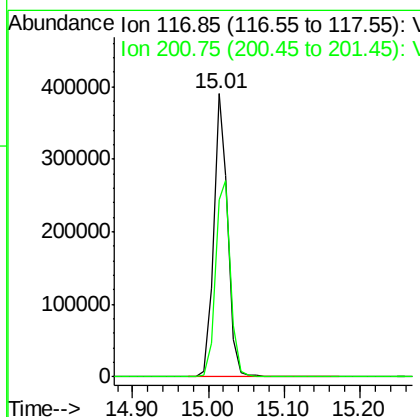
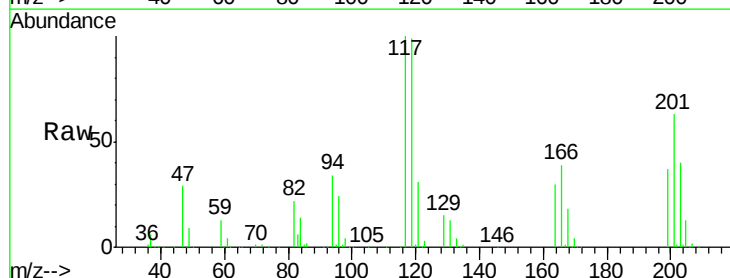
Manual Integrations
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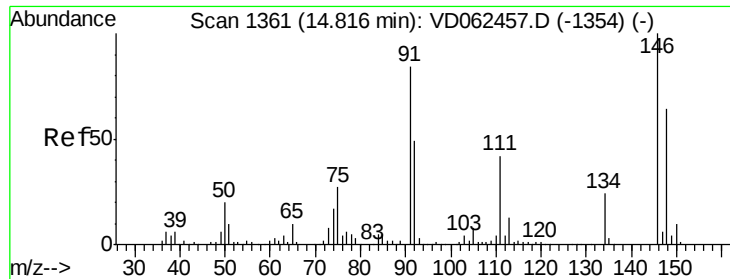
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#90
Hexachloroethane
Concen: 76.882 ug/l
RT: 15.01 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VD062458.D
Acq: 20 May 2019 16:10

Tgt Ion: 117 Resp: 511237
Ion Ratio Lower Upper
117 100
201 62.8 30.2 90.6





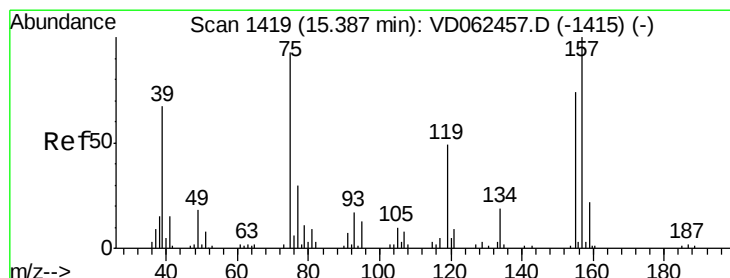
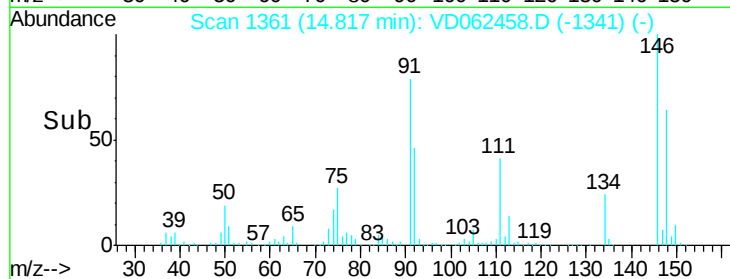
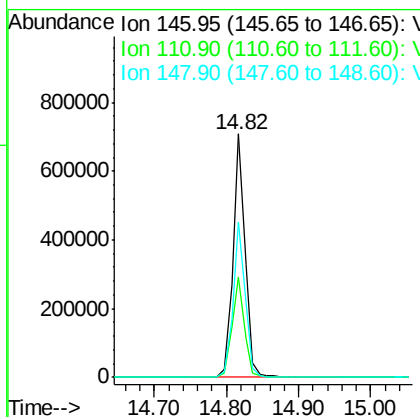
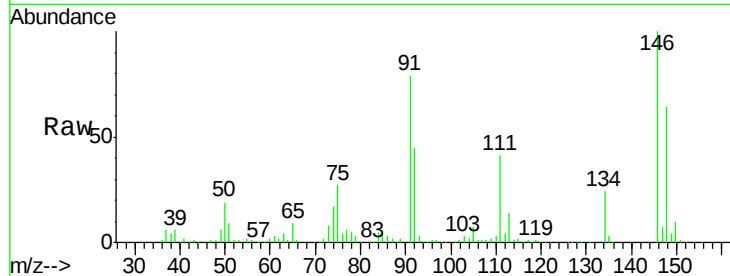
#91
 1,2-Dichlorobenzene
 Concen: 73.886 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.0	59.9
148	64.0	32.3	96.8

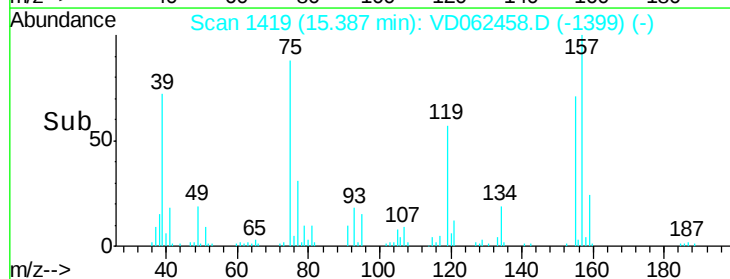
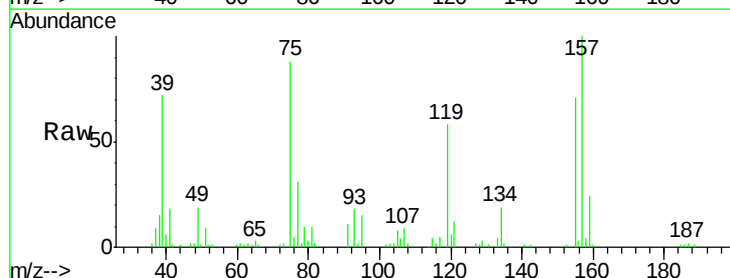
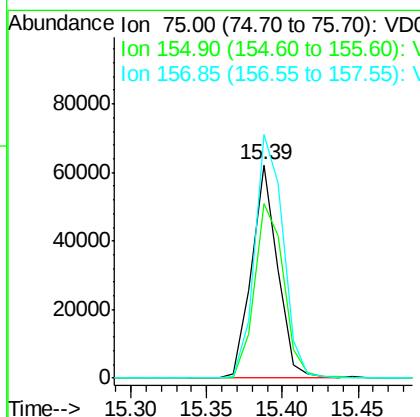
Manual Integrations
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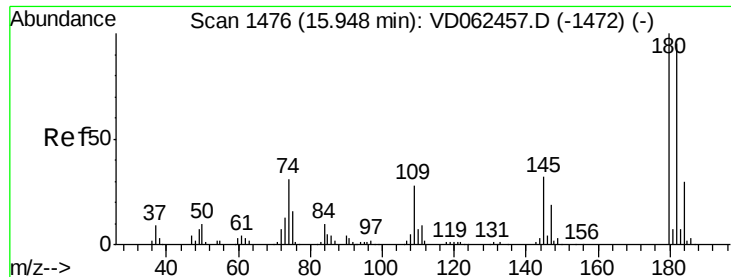
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 5/22/2019 4:49:04 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 91.369 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.6	55.3	165.8
157	114.2	67.8	203.2





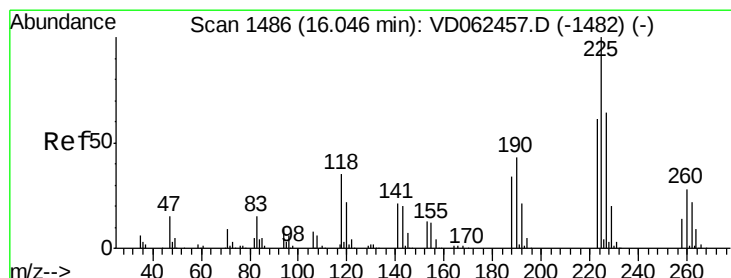
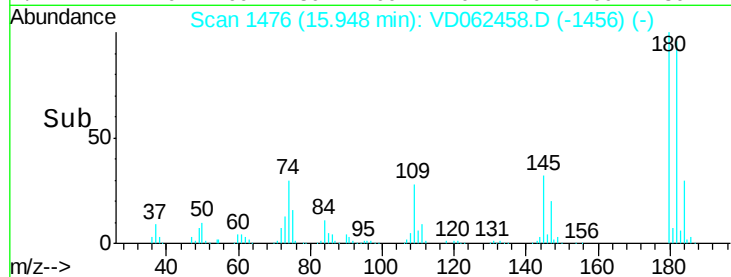
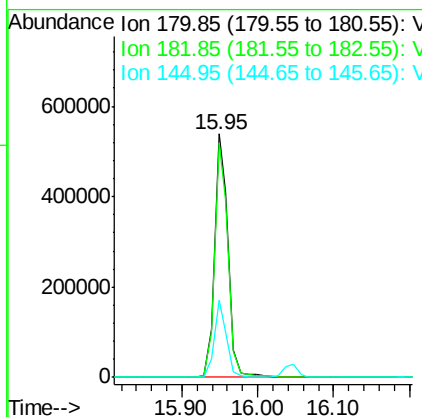
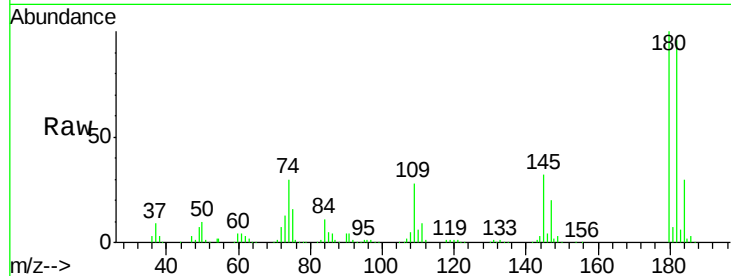
#93
 1,2,4-Trichlorobenzene
 Concen: 84.467 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
180	100	682865		
182	96.2	49.3	147.8	
145	31.9	16.2	48.6	

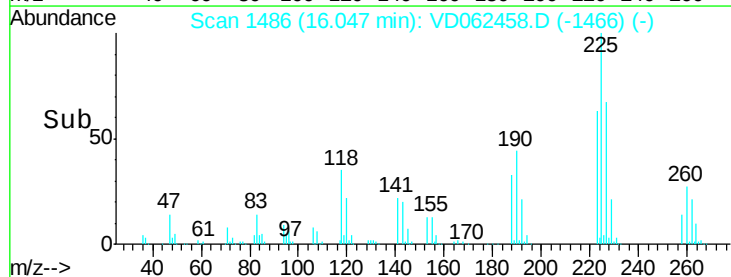
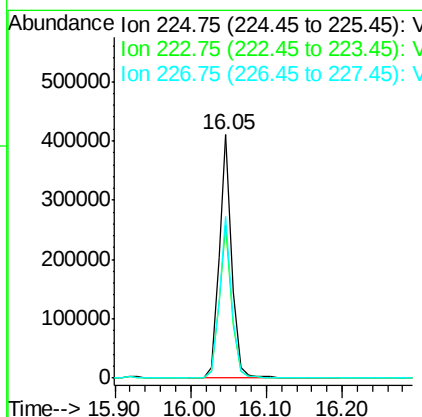
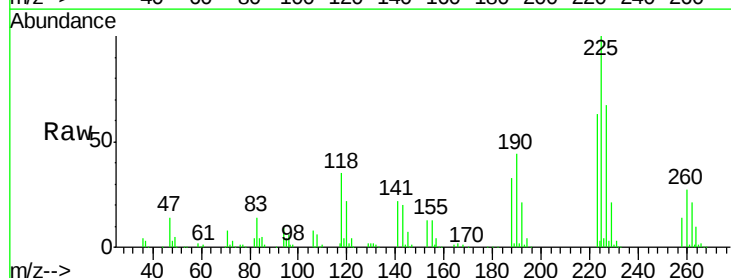
Manual Integrations
 APPROVED

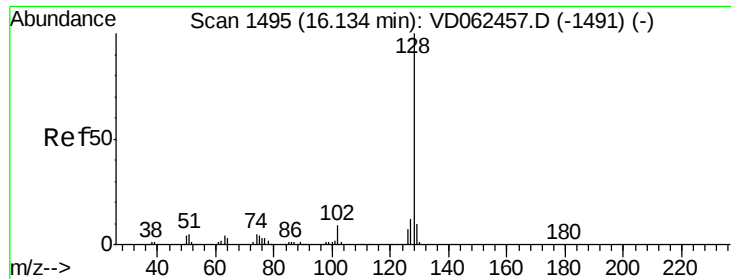
MMDadoda
 5/22/2019 4:49:04 AM



#94
 Hexachlorobutadiene
 Concen: 80.133 ug/l
 RT: 16.05 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD062458.D
 Acq: 20 May 2019 16:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	481834		
223	62.9	30.6	92.0	
227	66.6	32.0	96.2	





#95

Naphthalene

Concen: 88.019 ug/l

RT: 16.14 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Instrument :

MSVOA_D

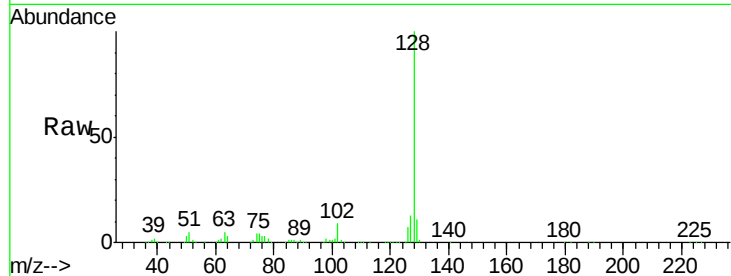
ClientSampleId :

VSTDIC075

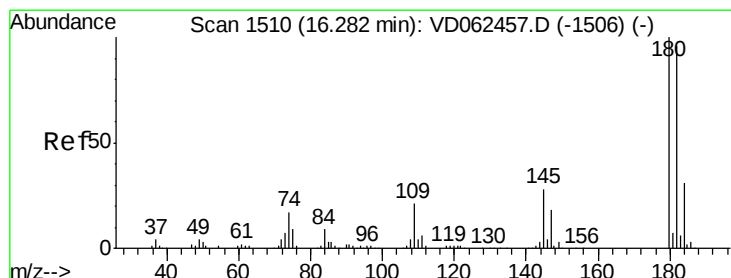
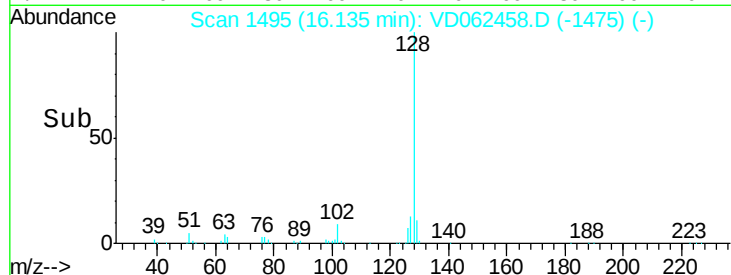
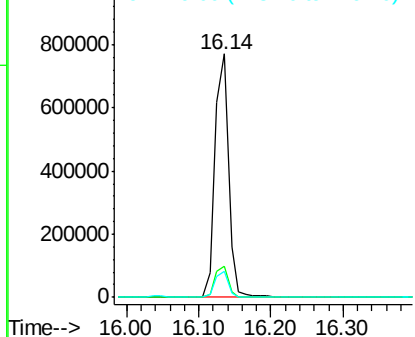
Tot Ion:	128	Resp:	993441
Ion Ratio	Lower	Upper	
128	100		
127	12.9	9.8	14.8
129	10.8	8.8	13.2

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



#96

1,2,3-Trichlorobenzene

Concen: 114.916 ug/l

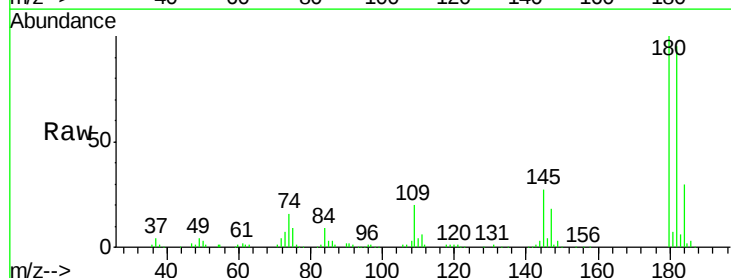
RT: 16.28 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VD062458.D

Acq: 20 May 2019 16:10

Tgt Ion:	180	Resp:	584116
Ion Ratio	Lower	Upper	
180	100		
182	94.8	47.0	141.0
145	27.2	17.0	51.0



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

