

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\
 Data File : VD062252.D
 Acq On : 12 May 2019 11:51
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

Quant Time: May 13 01:47:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	897968	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	1218377	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.37	117	1028957	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	526185	50.00	ug/l	0.02

System Monitoring Compounds

MMDadoda

33) 1,2-Dichloroethane-d4	7.46	65	411902	49.36	ug/l	0.04
Spiked Amount	50.000		Recovery	=	98.72%	
35) Dibromofluoromethane	6.94	113	500160	49.48	ug/l	0.05
Spiked Amount	50.000		Recovery	=	98.96%	
50) Toluene-d8	10.43	98	1120128	45.96	ug/l	0.03
Spiked Amount	50.000		Recovery	=	91.92%	
62) 4-Bromofluorobenzene	13.57	95	477738	48.81	ug/l	0.02
Spiked Amount	50.000		Recovery	=	97.62%	

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Target Compounds

Qvalue

2) Dichlorodifluoromethane	1.59	85	429533	50.014	ug/l	100
3) Chloromethane	1.76	50	275813	44.445	ug/l	100
4) Vinyl Chloride	1.85	62	290636	47.654	ug/l	98
5) Bromomethane	2.16	94	88403	61.861	ug/l	93
6) Chloroethane	2.28	64	137416	53.696	ug/l	97
7) Trichlorofluoromethane	2.54	101	670562	56.554	ug/l	97
8) Diethyl Ether	2.89	74	86638	37.887	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	3.16	101	438624	48.902	ug/l	95
10) Methyl Iodide	3.32	142	585864	43.218	ug/l #	88
11) Tert butyl alcohol	4.08	59	109226	256.421	ug/l	96
12) 1,1-Dichloroethene	3.14	96	340947	49.796	ug/l	92
13) Acrolein	3.05	56	88777	201.502	ug/l	87
14) Allyl chloride	3.64	41	474165	47.630	ug/l #	86
15) Acrylonitrile	4.22	53	259570	231.837	ug/l #	86
16) Acetone	3.23	43	528422	301.952	ug/l #	86
17) Carbon Disulfide	3.39	76	932564	47.347	ug/l	100
18) Methyl Acetate	3.66	43	139569	44.559	ug/l	99
19) Methyl tert-butyl Ether	4.25	73	735548	50.120	ug/l	96
20) Methylene Chloride	3.83	84	357761	48.962	ug/l	90
21) trans-1,2-Dichloroethene	4.24	96	377122	49.498	ug/l	94
22) Diisopropyl ether	5.14	45	1060006	50.036	ug/l	95
23) Vinyl Acetate	5.07	43	3135462	280.522	ug/l	97
24) 1,1-Dichloroethane	5.00	63	622727	48.727	ug/l	99
25) 2-Butanone	6.09	43	544729	285.370	ug/l	97
26) 2,2-Dichloropropane	6.04	77	739468	58.087	ug/l	92
27) cis-1,2-Dichloroethene	6.06	96	456912	53.577	ug/l	98
28) Bromochloromethane	6.46	49	289317	57.540	ug/l	89
29) Tetrahydrofuran	6.47	42	217092	246.830	ug/l	94
30) Chloroform	6.68	83	817910	53.104	ug/l	99
31) Cyclohexane	6.97	56	449933	51.388	ug/l	95
32) 1,1,1-Trichloroethane	6.88	97	817632	56.164	ug/l	98
36) 1,1-Dichloropropene	7.16	75	555767	55.635	ug/l	95
37) Ethyl Acetate	6.19	43	212265	50.105	ug/l #	91
38) Carbon Tetrachloride	7.13	117	780462m	56.447	ug/l	

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 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	501579	52.405	ug/l	97
40) Benzene	7.47	78	1156884	51.286	ug/l	97
41) Methacrylonitrile	6.46	41	273020	52.736	ug/l	90
42) 1,2-Dichloroethane	7.59	62	522408	54.661	ug/l	96
43) Isopropyl Acetate	9.26	43	317636	52.867	ug/l #	96
44) Trichloroethene	8.56	130	463328	53.902	ug/l	83
45) 1,2-Dichloropropane	8.96	63	283705	50.847	ug/l	99
46) Dibromomethane	9.08	93	241237	53.168	ug/l	92
47) Bromodichloromethane	9.39	83	613402	55.270	ug/l	98
48) Methyl methacrylate	9.14	41	201320	54.399	ug/l #	88
49) 1,4-Dioxane	9.10	88	39112	979.516	ug/l #	94
51) 4-Methyl-2-Pentanone	10.32	43	1030861	266.916	ug/l	96
52) Toluene	10.52	92	765080	52.128	ug/l	99
53) t-1,3-Dichloropropene	10.93	75	533800	55.650	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	586121	56.012	ug/l	91
55) 1,1,2-Trichloroethane	11.20	97	272388	52.453	ug/l	97
56) Ethyl methacrylate	11.06	69	267917	49.648	ug/l #	89
57) 1,3-Dichloropropane	11.42	76	410065	52.268	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.88	63	814851	276.440	ug/l	99
59) 2-Hexanone	11.55	43	723400	254.134	ug/l	92
60) Dibromochloromethane	11.70	129	473953	52.810	ug/l	100
61) 1,2-Dibromoethane	11.81	107	318251	50.408	ug/l	96
64) Tetrachloroethene	11.27	164	397680	49.426	ug/l	95
65) Chlorobenzene	12.40	112	913878	47.686	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	396108	47.491	ug/l	96
67) Ethyl Benzene	12.53	91	1562185	48.690	ug/l	96
68) m/p-Xylenes	12.68	106	1138196	97.506	ug/l	95
69) o-Xylene	13.06	106	497812	45.871	ug/l	90
70) Styrene	13.08	104	926297	50.386	ug/l	96
71) Bromoform	13.24	173	292345	50.379	ug/l	99
73) Isopropylbenzene	13.41	105	1716869	54.433	ug/l	94
74) N-amyl acetate	13.27	43	379389	45.878	ug/l	94
75) 1,1,2,2-Tetrachloroethane	13.71	83	300127	50.263	ug/l	97
76) 1,2,3-Trichloropropane	13.74	75	319964	51.167	ug/l	100
77) Bromobenzene	13.68	156	456603	51.713	ug/l	95
78) n-propylbenzene	13.78	91	1951274	51.861	ug/l	97
79) 2-Chlorotoluene	13.85	91	1105421	51.299	ug/l	94
80) 1,3,5-Trimethylbenzene	13.94	105	1360680	51.230	ug/l	92
81) trans-1,4-Dichloro-2-buten	13.48	75	88481	50.121	ug/l #	80
82) 4-Chlorotoluene	13.96	91	1247311	49.189	ug/l	92
83) tert-Butylbenzene	14.20	119	1515369	50.760	ug/l	92
84) 1,2,4-Trimethylbenzene	14.24	105	1345377	50.477	ug/l	91
85) sec-Butylbenzene	14.37	105	1672710	51.104	ug/l	95
86) p-Isopropyltoluene	14.50	119	1503450	51.411	ug/l	94
87) 1,3-Dichlorobenzene	14.46	146	770062	47.743	ug/l	99
88) 1,4-Dichlorobenzene	14.55	146	727215	45.886	ug/l	95
89) n-Butylbenzene	14.81	91	1387740	52.869	ug/l	96
90) Hexachloroethane	15.01	117	402527	50.615	ug/l	97
91) 1,2-Dichlorobenzene	14.82	146	640795	48.240	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.39	75	52970	54.042	ug/l	73

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MSVOA_D
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VSTDCCC050

Manual Integrations
APPROVED

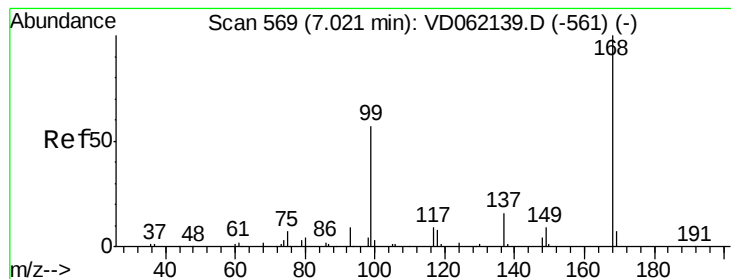
Quant Time: May 13 01:47:24 2019
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Quant Title : SW846 8260
QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	555928	57.498	ug/l	94
94) Hexachlorobutadiene	16.05	225	411489	57.221	ug/l	99
95) Naphthalene	16.13	128	732589	54.272	ug/l	100
96) 1,2,3-Trichlorobenzene	16.28	180	370884	61.010	ug/l	94

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

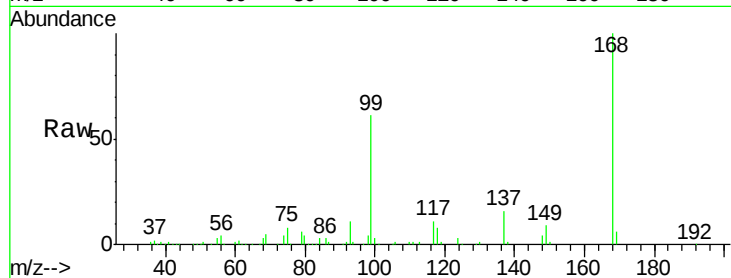
Tot Ion:168 Resp: 897968

Ion Ratio Lower Upper

168 100

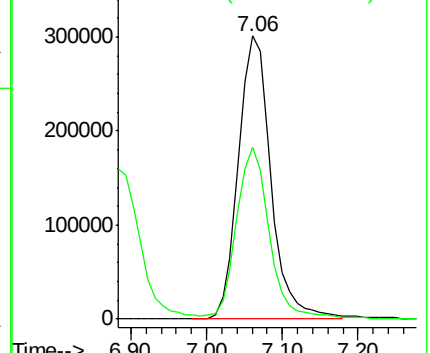
99 60.9 46.5 69.7

Manual Integrations
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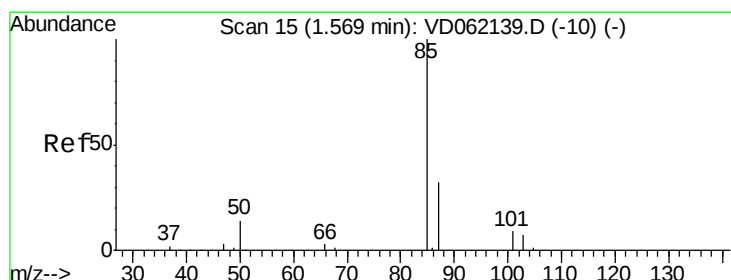
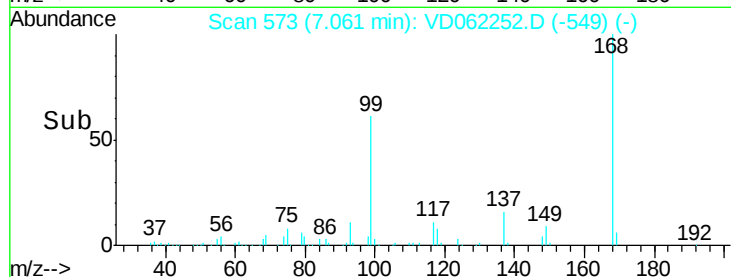
Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



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#2

Dichlorodifluoromethane

Concen: 50.014 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.02 min

Lab File: VD062252.D

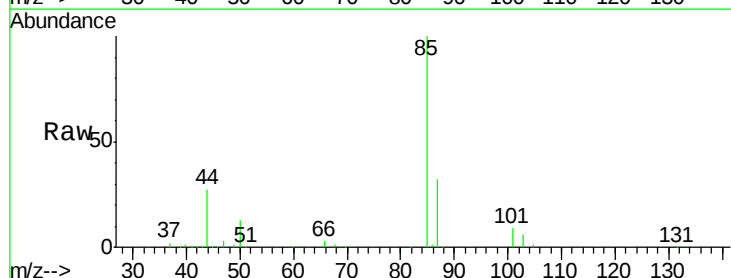
Acq: 12 May 2019 11:51

Tgt Ion: 85 Resp: 429533

Ion Ratio Lower Upper

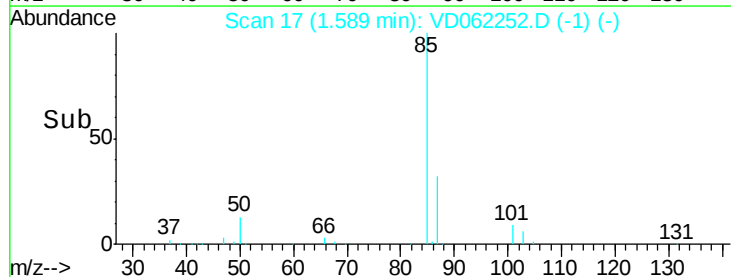
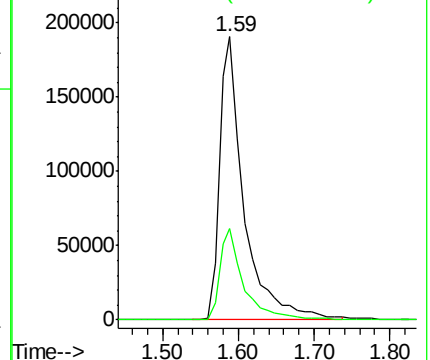
85 100

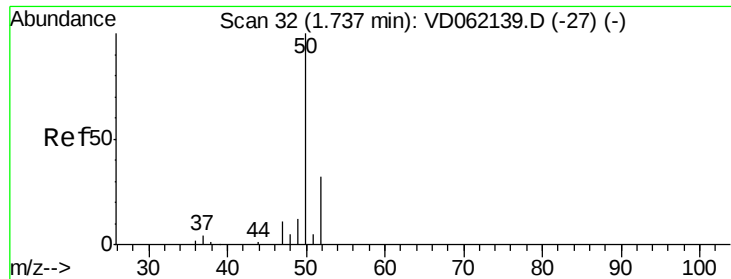
87 32.3 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 44.445 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

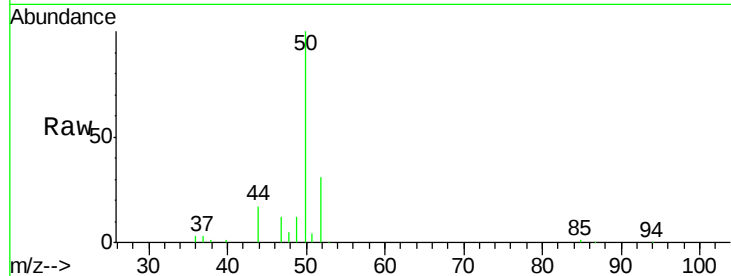
Tot Ion: 50 Resp: 275813

Ion Ratio Lower Upper

50 100

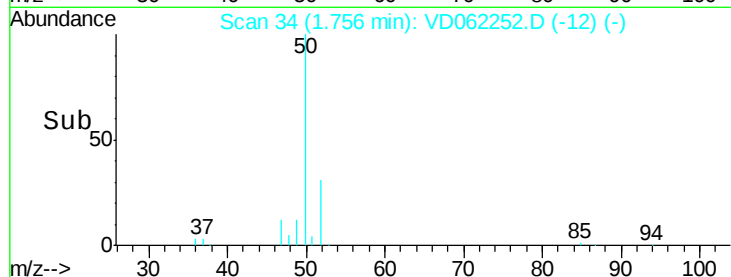
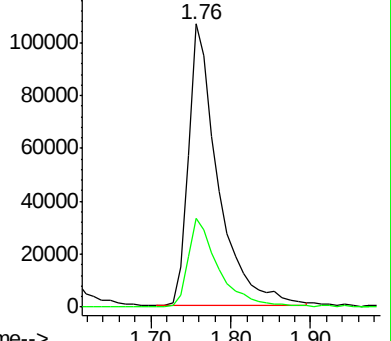
52 31.3 25.2 37.8

Manual Integrations
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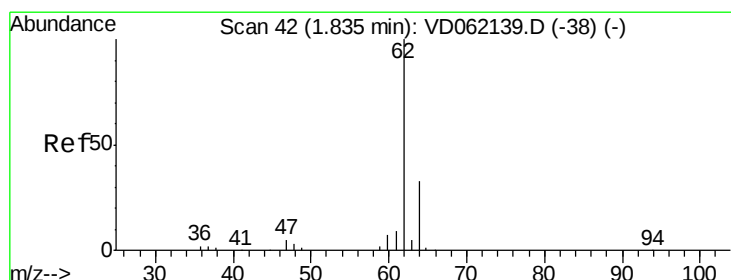
Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



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#4

Vinyl Chloride

Concen: 47.654 ug/l

RT: 1.85 min Scan# 44

Delta R.T. 0.02 min

Lab File: VD062252.D

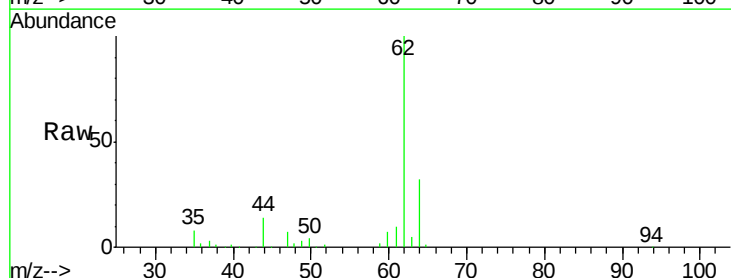
Acq: 12 May 2019 11:51

Tgt Ion: 62 Resp: 290636

Ion Ratio Lower Upper

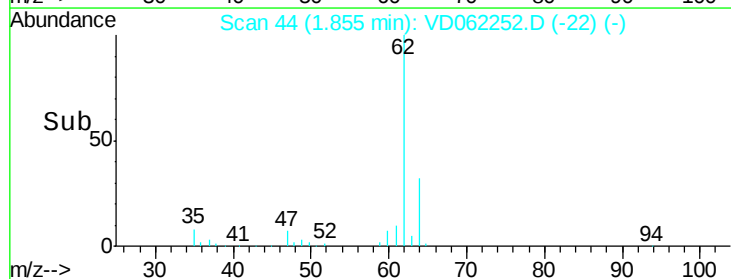
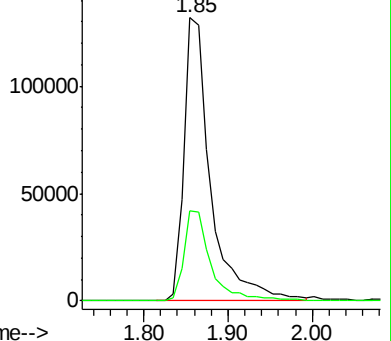
62 100

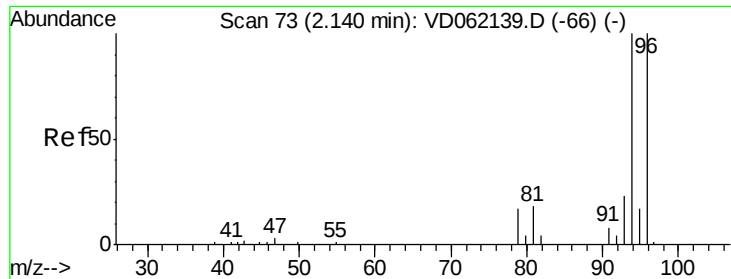
64 32.0 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 61.861 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

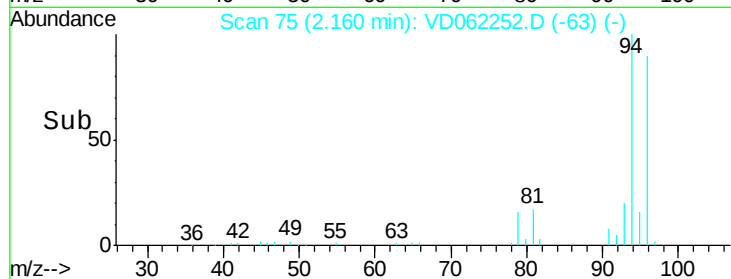
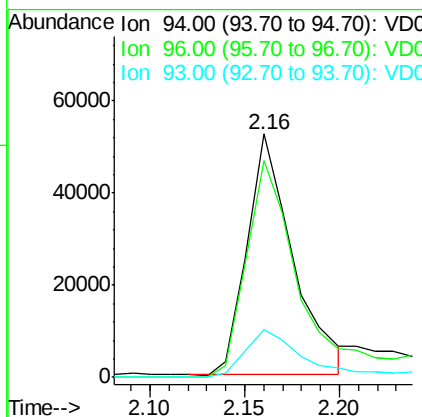
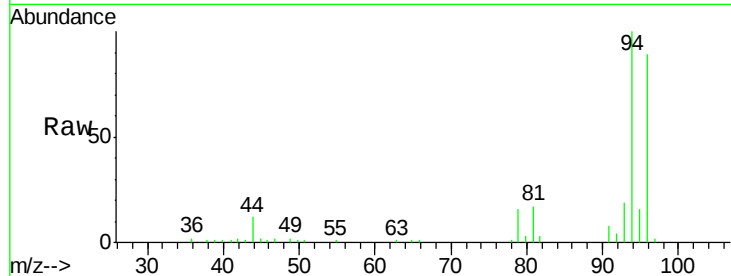
MSVOA_D

ClientSampleId :

VSTDCCC050

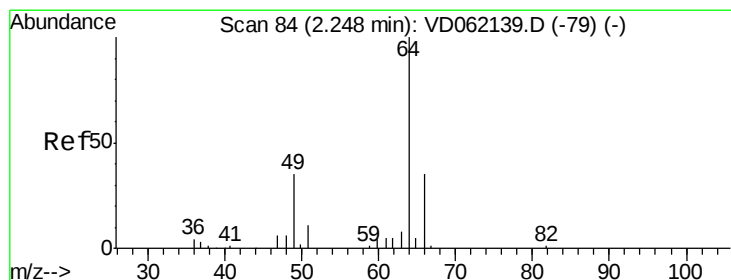
Tot Ion:	94	Resp:	88403
Ion	Ratio	Lower	Upper
94	100		
96	89.3	76.6	115.0
93	19.4	18.5	27.7

Manual Integrations
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#6

Chloroethane

Concen: 53.696 ug/l

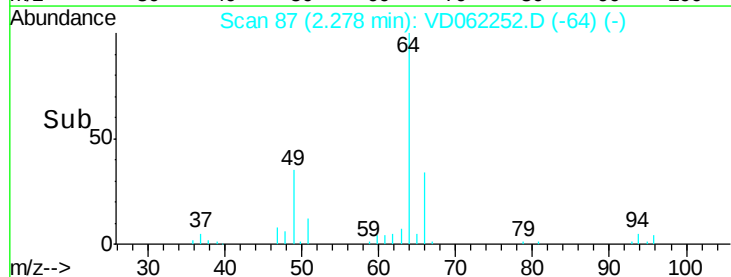
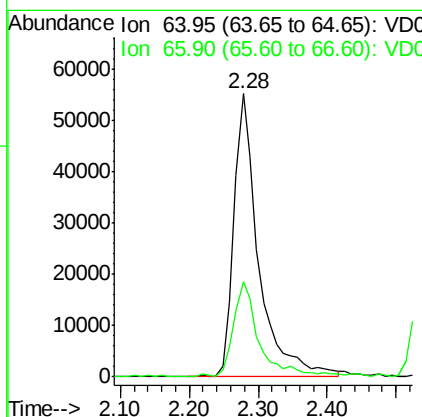
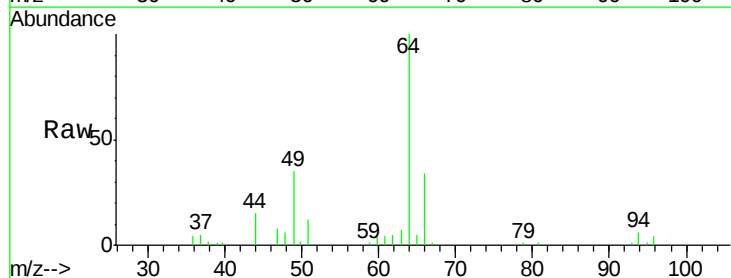
RT: 2.28 min Scan# 87

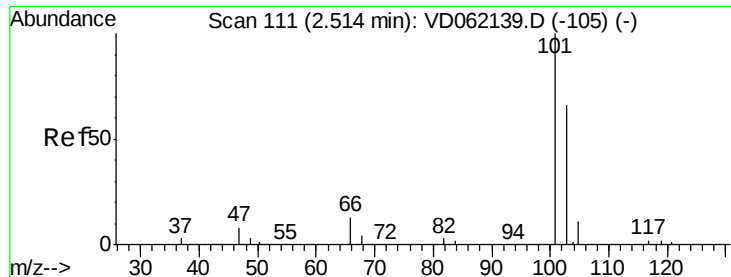
Delta R.T. 0.03 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tgt Ion:	64	Resp:	137416
Ion	Ratio	Lower	Upper
64	100		
66	33.6	25.6	38.4





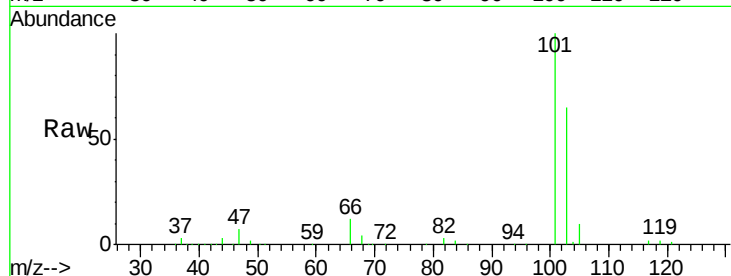
#7

Trichlorofluoromethane
Concen: 56.554 ug/l
RT: 2.54 min Scan# 114
Delta R.T. 0.03 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

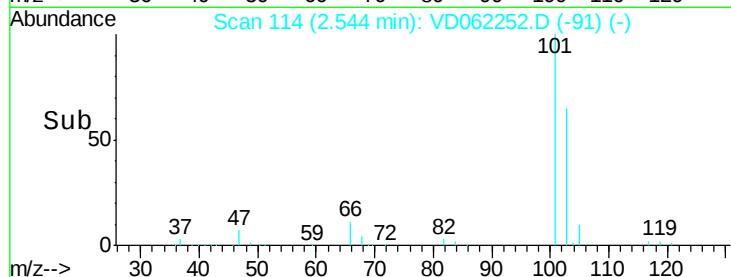
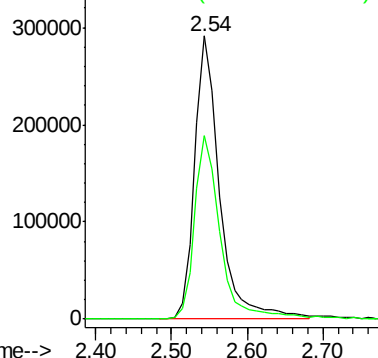
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	53.6	80.4

Manual Integrations
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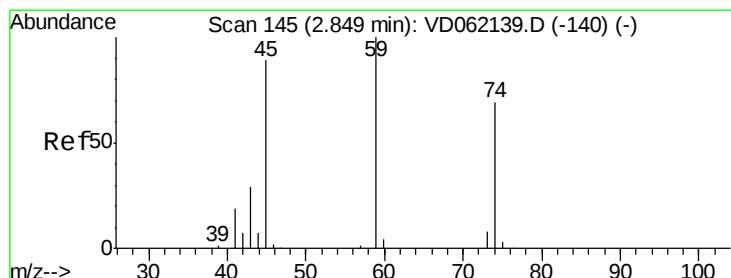


Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



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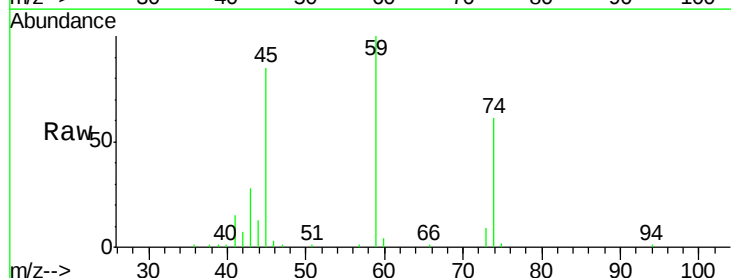
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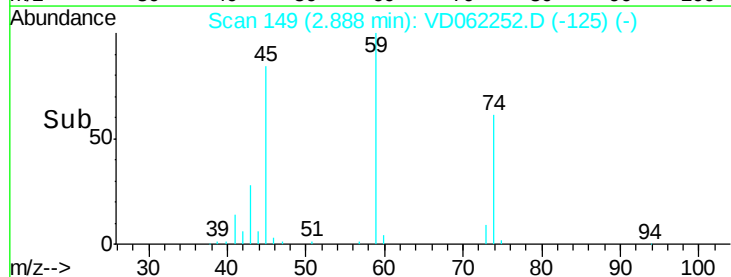
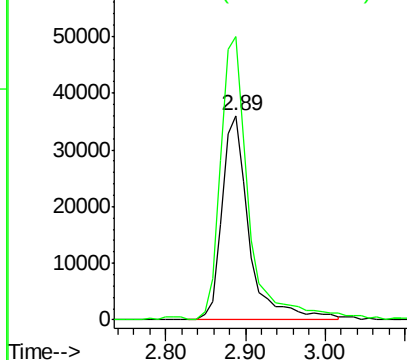
#8

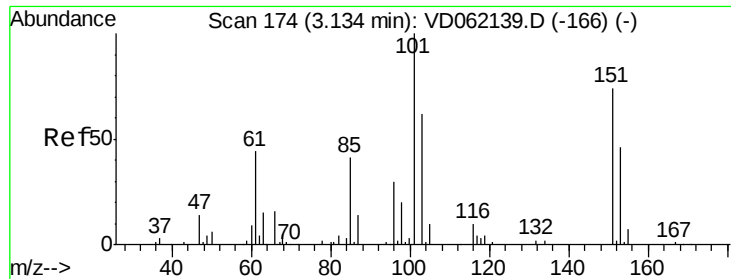
Diethyl Ether
Concen: 37.887 ug/l
RT: 2.89 min Scan# 149
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	138.6	56.9	170.7



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.902 ug/l

RT: 3.16 min Scan# 177

Delta R.T. 0.03 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

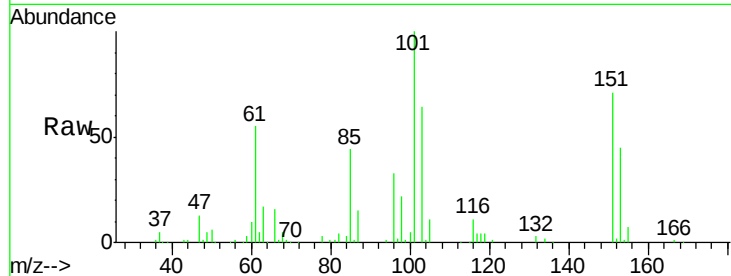
MSVOA_D

ClientSampleId :

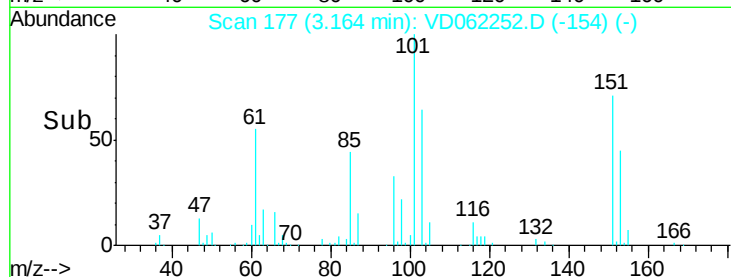
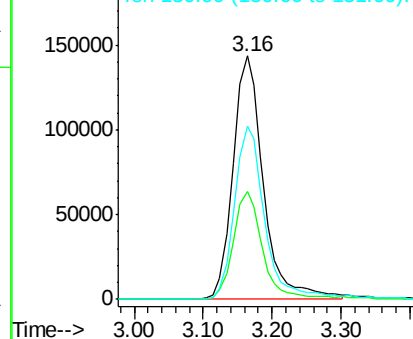
VSTDCCC050

Tot Ion:	101	Resp:	438624
Ion Ratio	Lower	Upper	
101	100		
85	44.3	32.4	48.6
151	70.9	59.4	89.0

Manual Integrations
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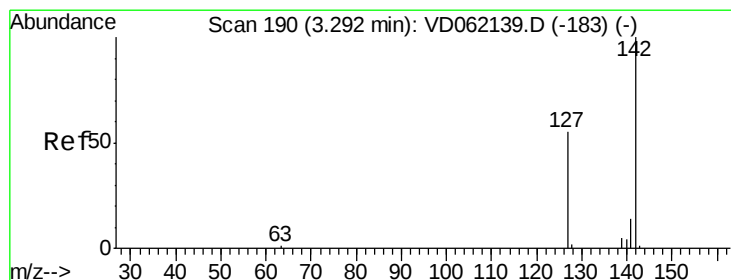


Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



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#10

Methyl Iodide

Concen: 43.218 ug/l

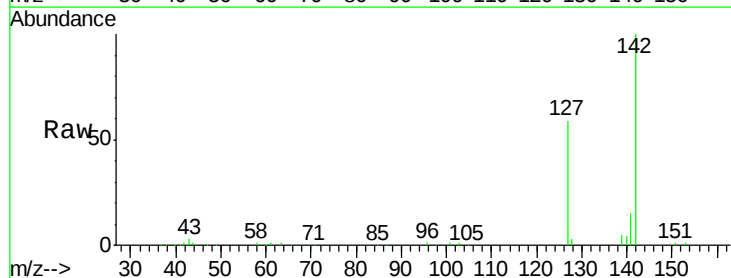
RT: 3.32 min Scan# 193

Delta R.T. 0.03 min

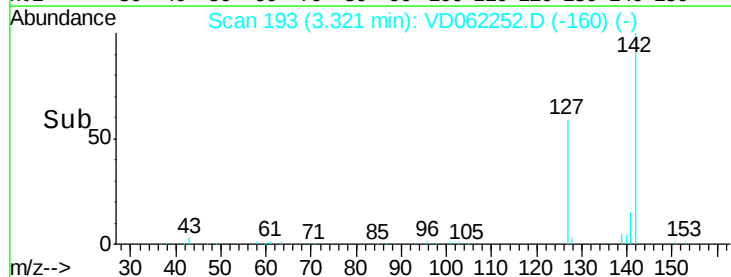
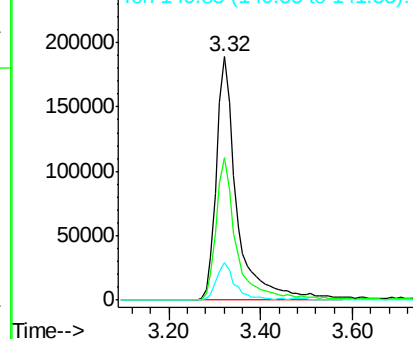
Lab File: VD062252.D

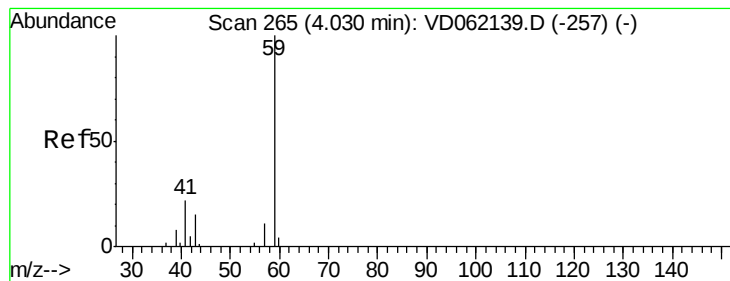
Acq: 12 May 2019 11:51

Tgt Ion:	142	Resp:	585864
Ion Ratio	Lower	Upper	
142	100		
127	58.6	38.8	58.2#
141	15.3	11.4	17.0



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





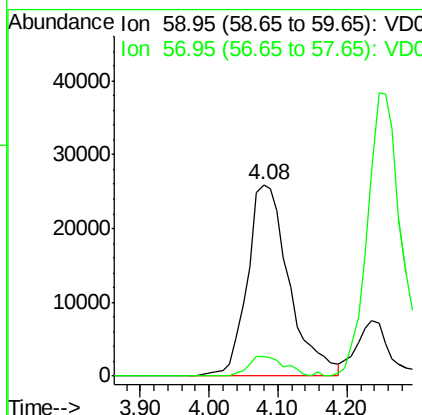
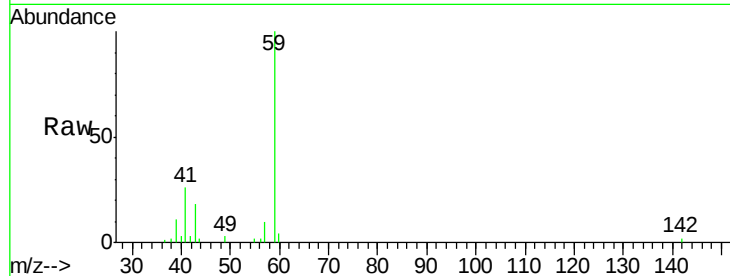
#11

Tert butyl alcohol
Concen: 256.421 ug/l
RT: 4.08 min Scan# 270
Delta R.T. 0.05 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

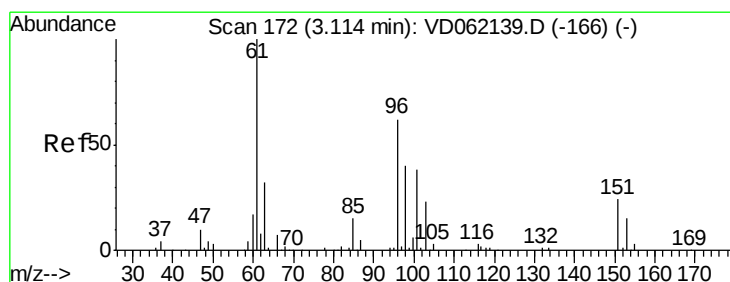
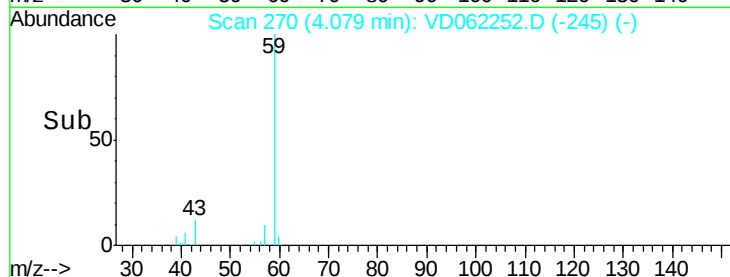
Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	6.9	10.3

Manual Integrations
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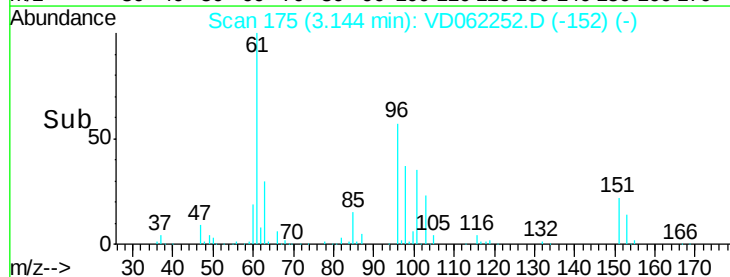
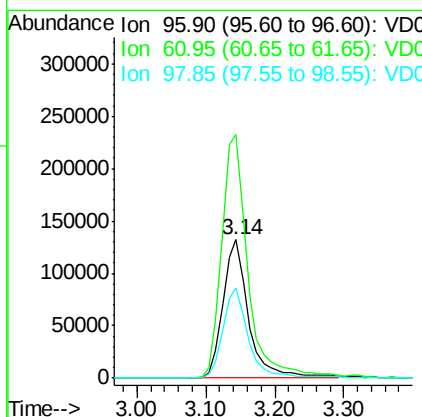
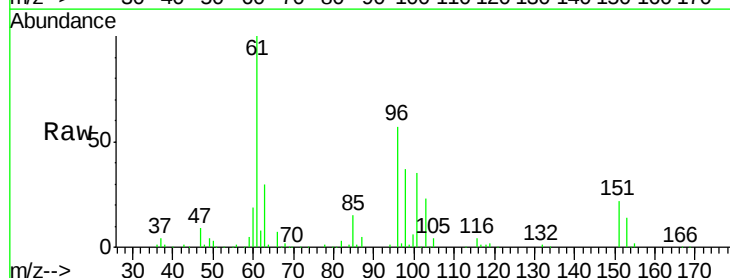
5/13/2019 11:55:54 AM

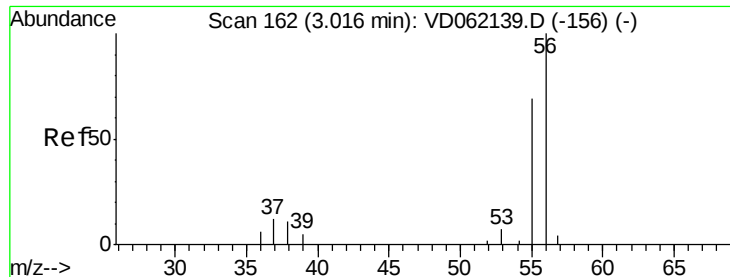


#12

1,1-Dichloroethene
Concen: 49.796 ug/l
RT: 3.14 min Scan# 175
Delta R.T. 0.03 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.9	129.8	194.8
98	65.3	51.2	76.8





#13

Acrolein

Concen: 201.502 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.03 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tot Ion: 56 Resp: 88777

Ion Ratio Lower Upper

56 100

55 74.8 51.4 77.2

Instrument :

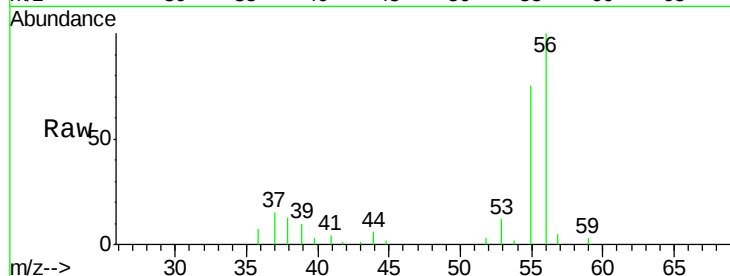
MSVOA_D

ClientSampleId :

VSTDCCC050

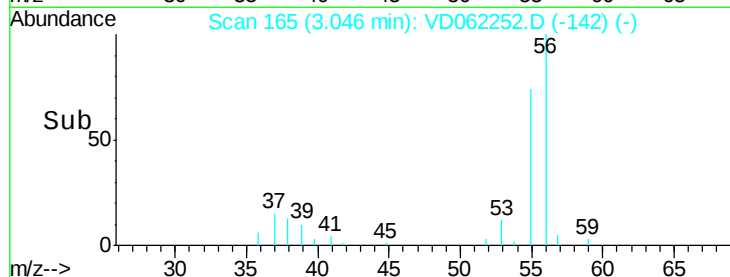
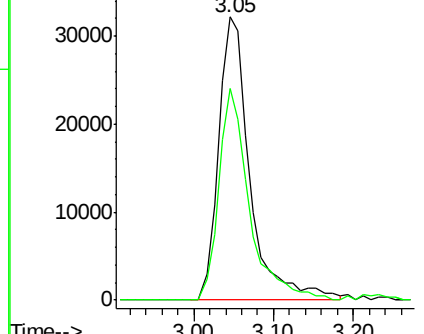
Manual Integrations

APPROVED



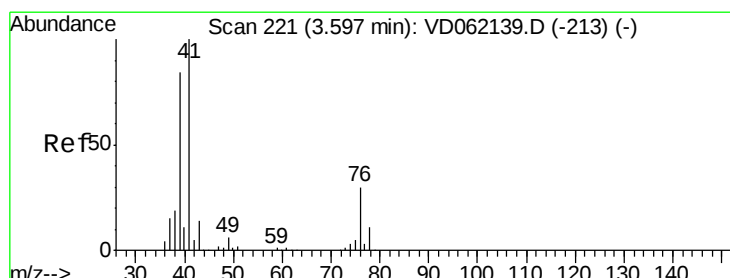
Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



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#14

Allyl chloride

Concen: 47.630 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

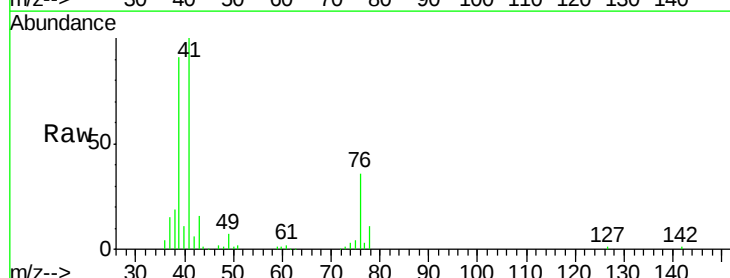
Tgt Ion: 41 Resp: 474165

Ion Ratio Lower Upper

41 100

39 91.0 60.5 90.7#

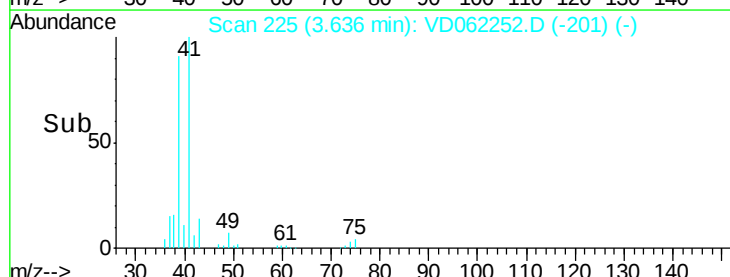
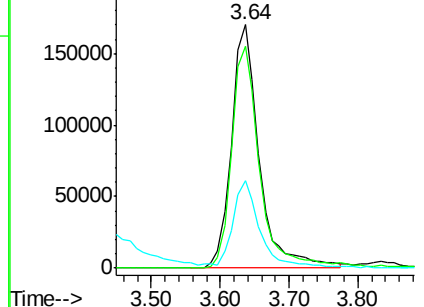
76 35.9 31.8 47.8

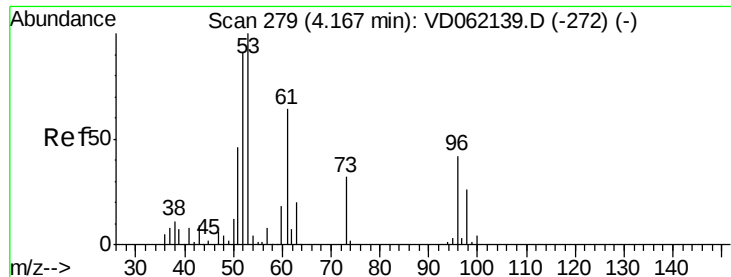


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 231.837 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.05 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

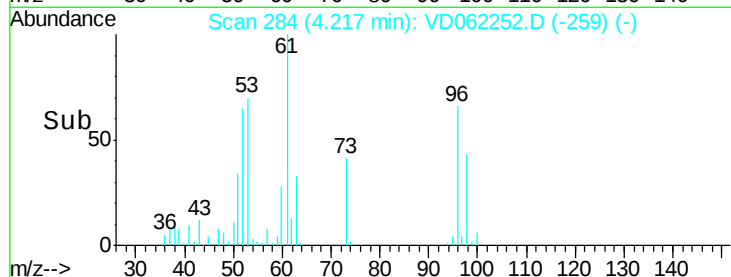
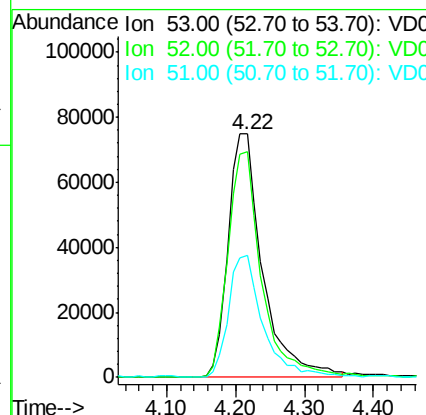
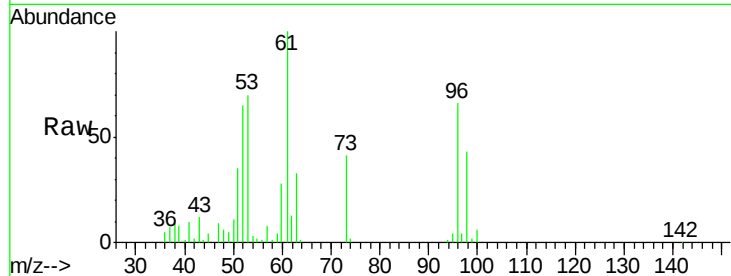
MSVOA_D

ClientSampleId :

VSTDCCC050

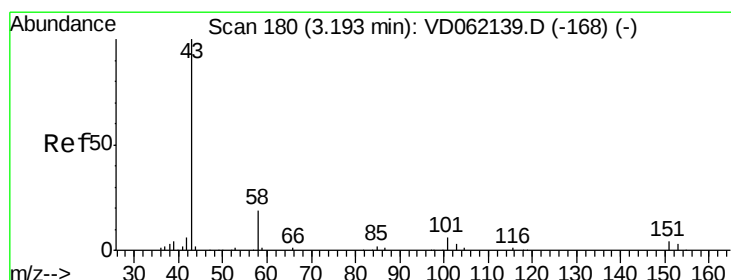
Tot Ion:	53	Resp:	259570
Ion Ratio	Lower	Upper	
53	100		
52	92.7	65.0	97.4
51	50.2	32.6	48.8#

Manual Integrations
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#16

Acetone

Concen: 301.952 ug/l

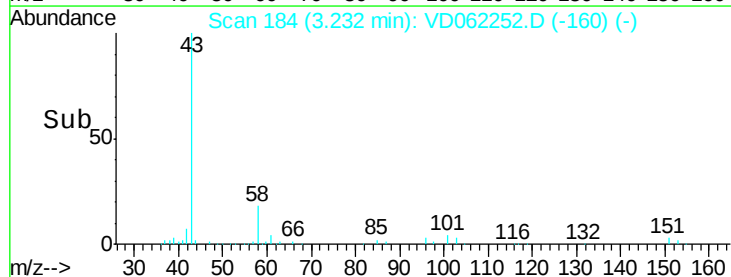
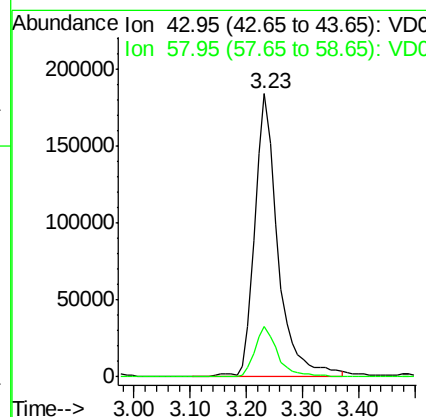
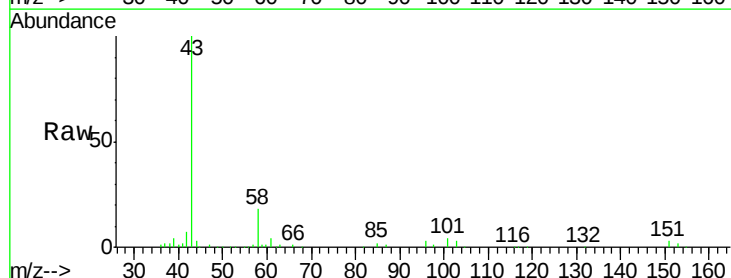
RT: 3.23 min Scan# 184

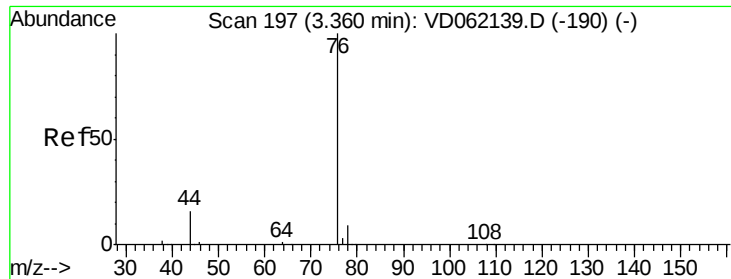
Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tgt Ion:	43	Resp:	528422
Ion Ratio	Lower	Upper	
43	100		
58	17.8	19.9	29.9#



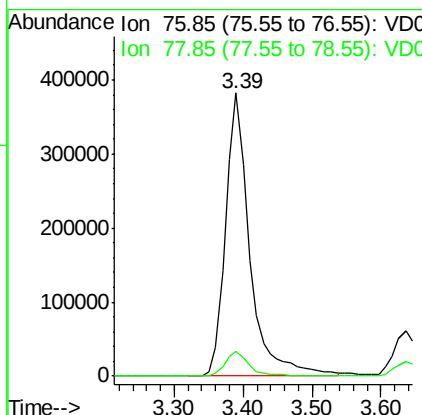
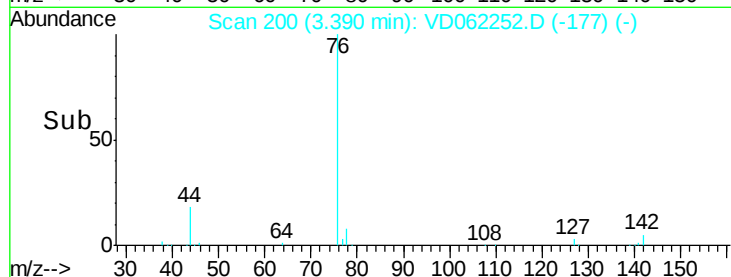
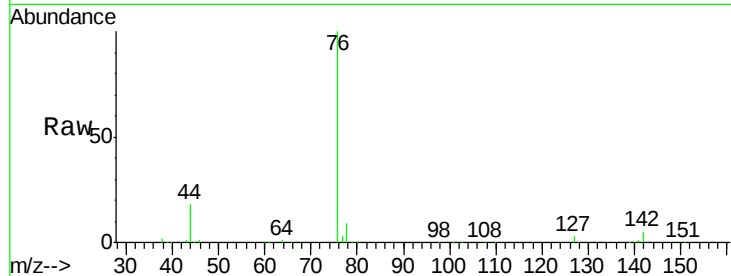


#17
Carbon Disulfide
Concen: 47.347 ug/l
RT: 3.39 min Scan# 200
Delta R.T. 0.03 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

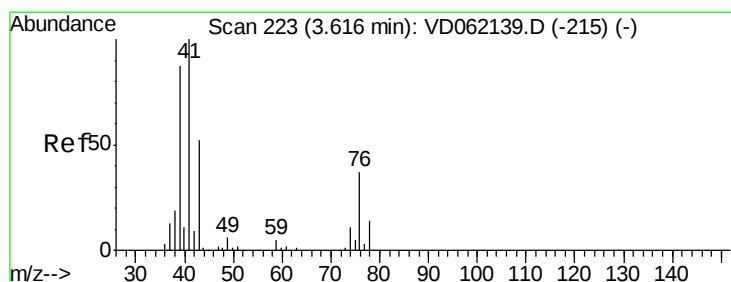
Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

Manual Integrations
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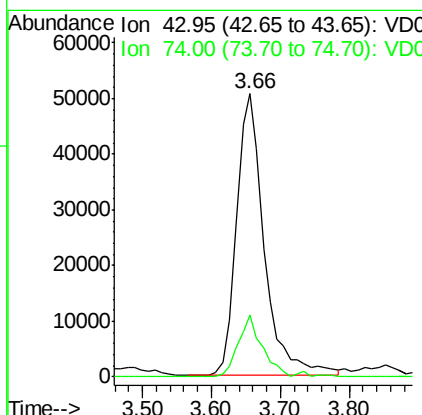
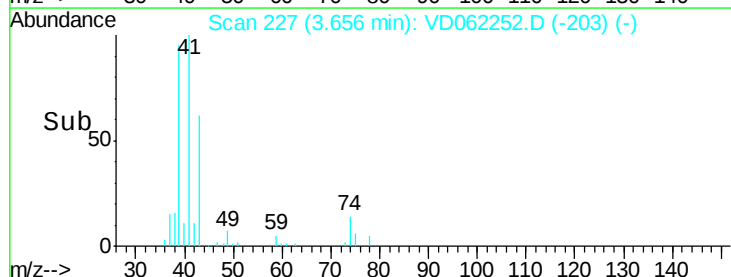
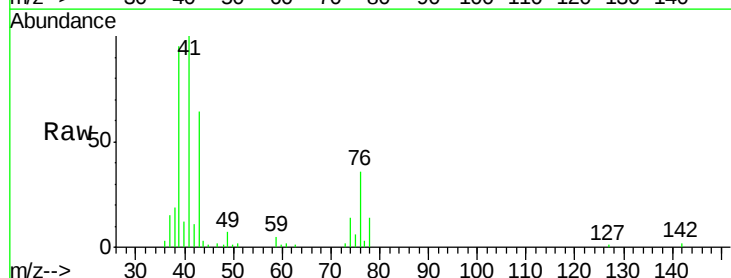
MMDadoda

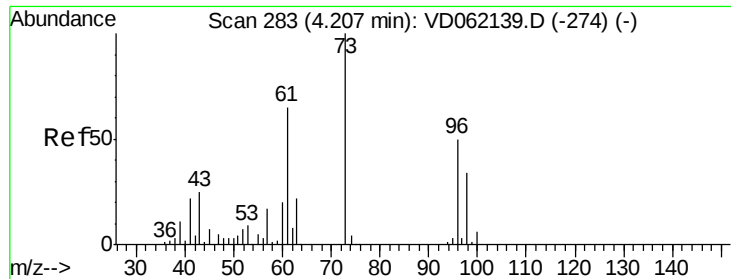
5/13/2019 11:55:54 AM



#18
Methyl Acetate
Concen: 44.559 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.9	18.0	27.0



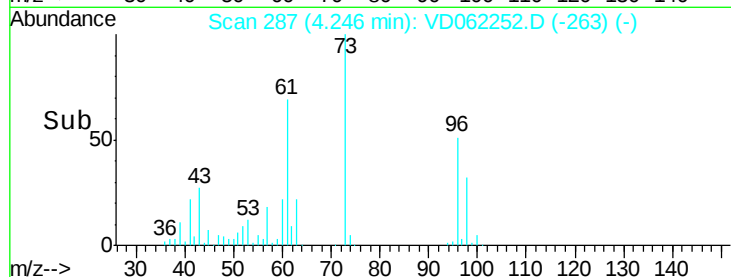
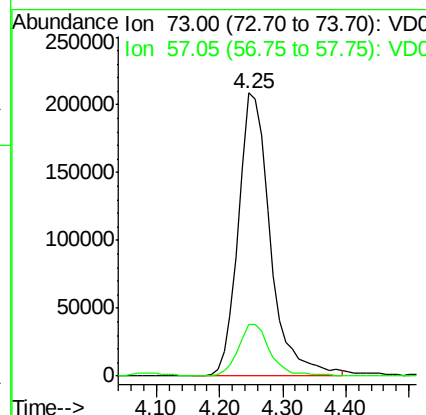
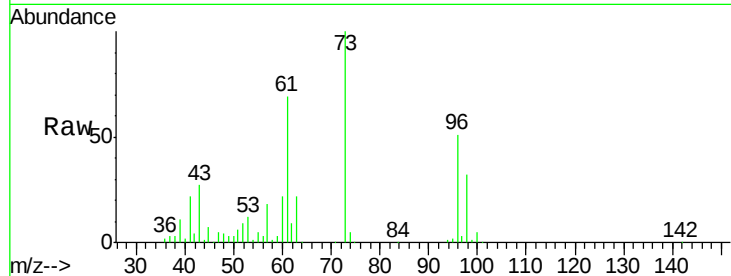


#19
Methyl tert-butyl Ether
Concen: 50.120 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

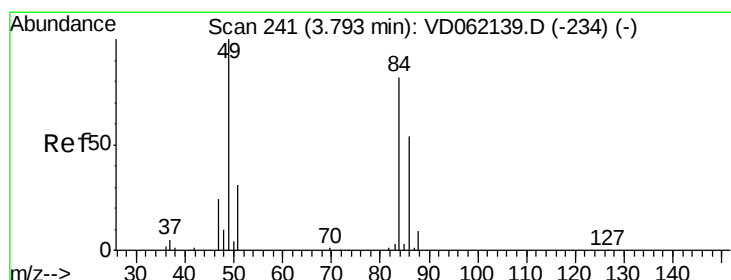
Tot Ion: 73 Resp: 735548
Ion Ratio Lower Upper
73 100
57 18.4 16.3 24.5

Manual Integrations
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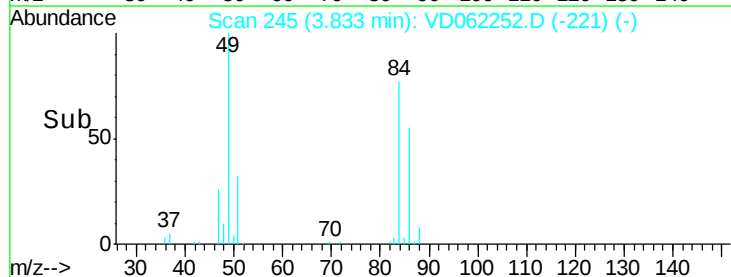
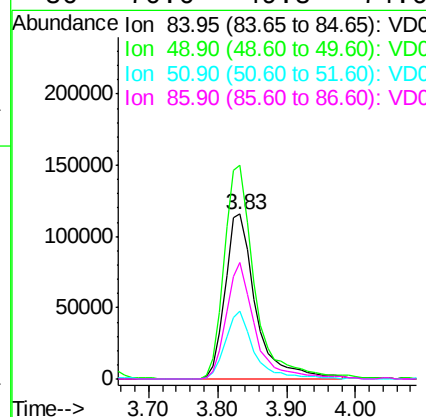
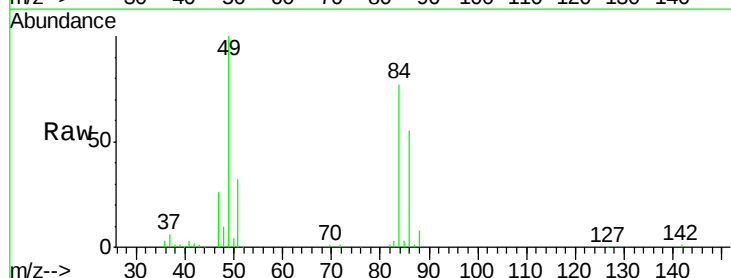
MMDadoda

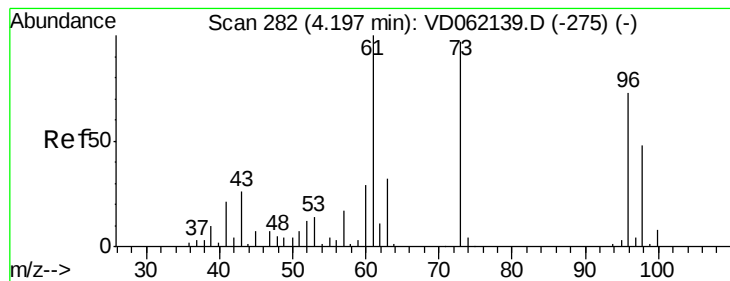
5/13/2019 11:55:54 AM



#20
Methylene Chloride
Concen: 48.962 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion: 84 Resp: 357761
Ion Ratio Lower Upper
84 100
49 129.4 94.0 141.0
51 40.8 29.0 43.4
86 70.6 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 49.498 ug/l

RT: 4.24 min Scan# 286

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 377122

Ion Ratio Lower Upper

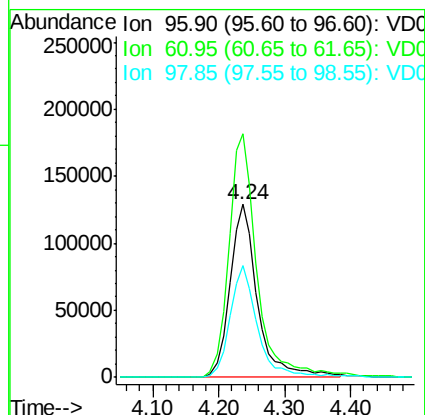
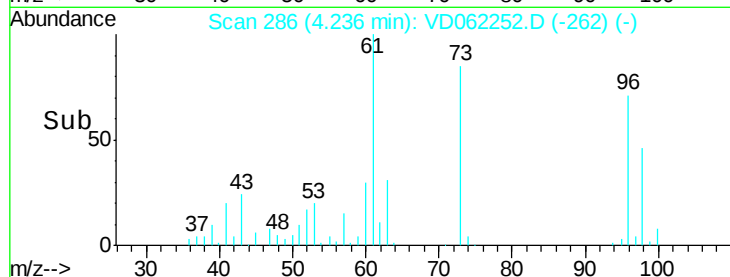
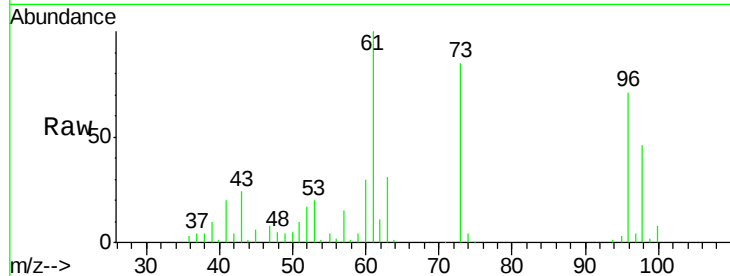
96 100

61 140.6 104.4 156.6

98 64.7 51.8 77.8

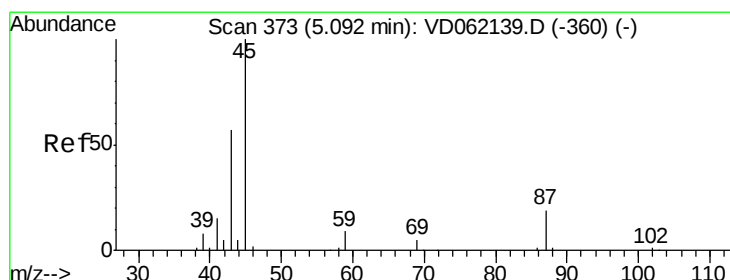
Manual Integrations

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#22

Diisopropyl ether

Concen: 50.036 ug/l

RT: 5.14 min Scan# 378

Delta R.T. 0.05 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tgt Ion: 45 Resp: 1060006

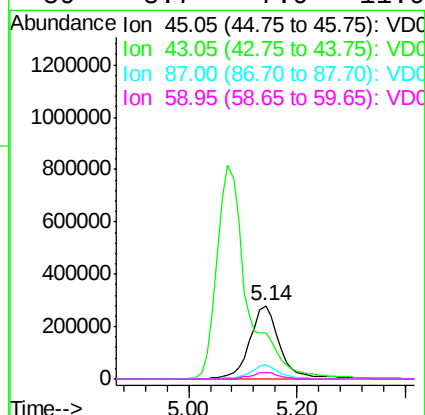
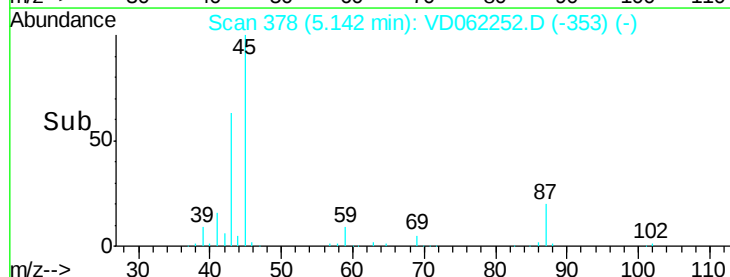
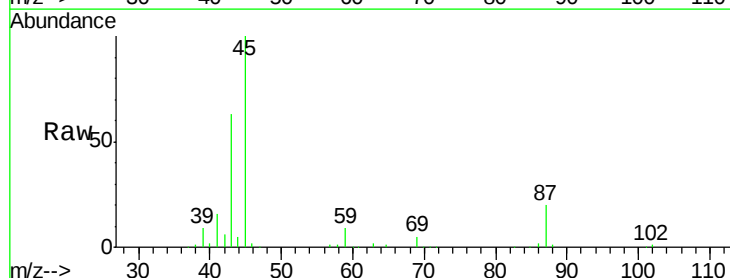
Ion Ratio Lower Upper

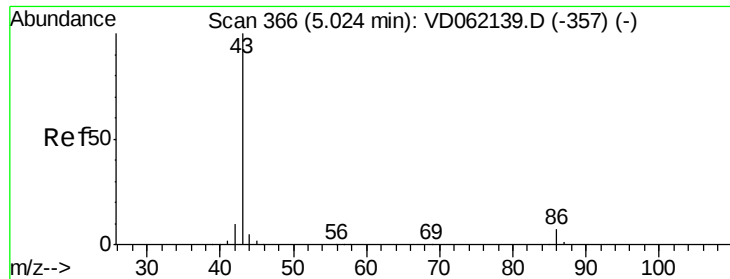
45 100

43 63.2 46.2 69.2

87 19.9 15.9 23.9

59 8.7 7.9 11.9





#23

Vinyl Acetate

Concen: 280.522 ug/l

RT: 5.07 min Scan# 371

Delta R.T. 0.05 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

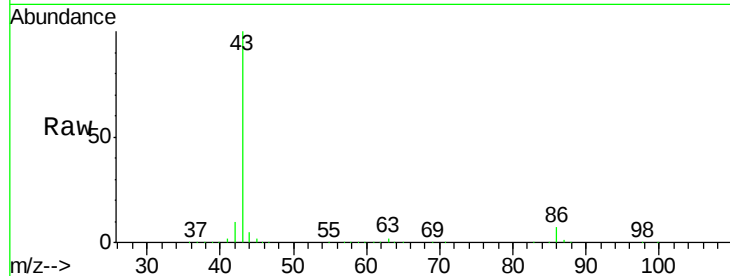
Tot Ion: 43 Resp: 3135462

Ion Ratio Lower Upper

43 100

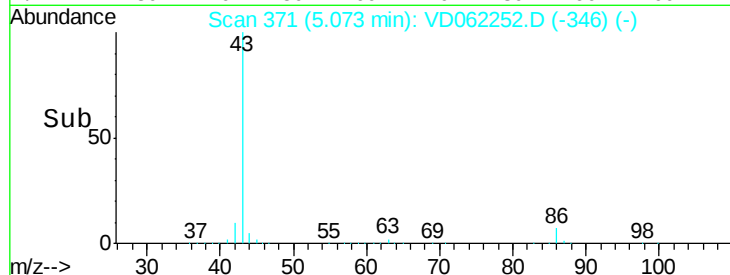
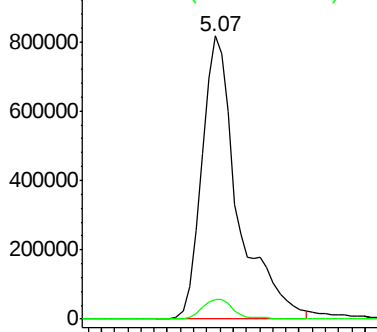
86 7.0 6.4 9.6

Manual Integrations
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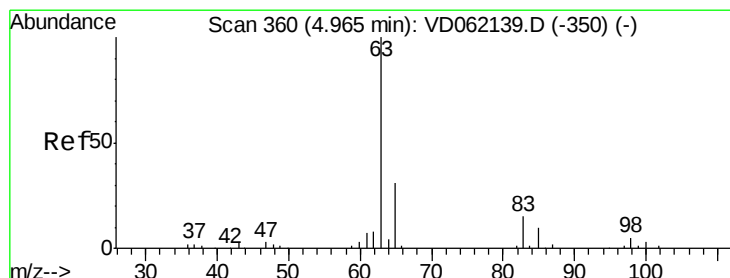
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



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#24

1,1-Dichloroethane

Concen: 48.727 ug/l

RT: 5.00 min Scan# 364

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

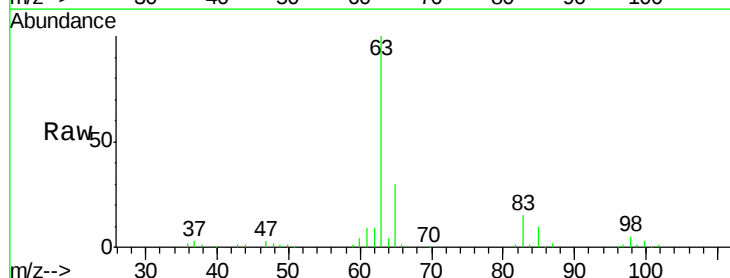
Tgt Ion: 63 Resp: 622727

Ion Ratio Lower Upper

63 100

98 5.0 2.8 8.4

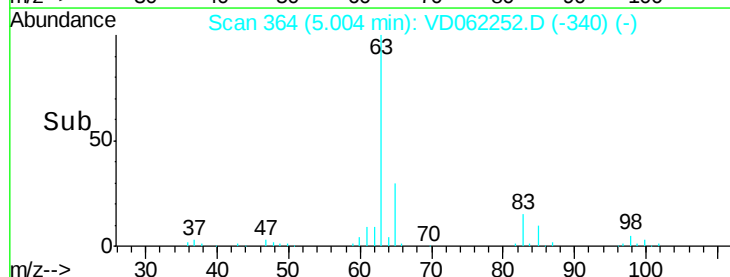
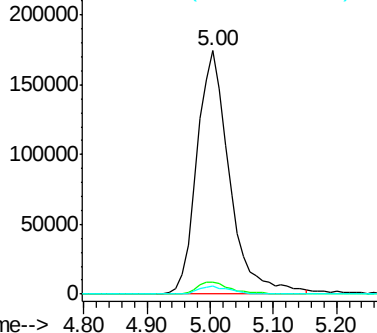
100 3.7 1.8 5.5



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: 285.370 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.05 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

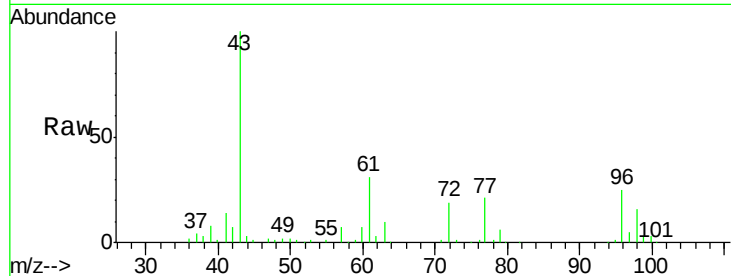
Tot Ion: 43 Resp: 544729

Ion Ratio Lower Upper

43 100

72 18.7 16.2 24.4

Manual Integrations
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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.09

200000

150000

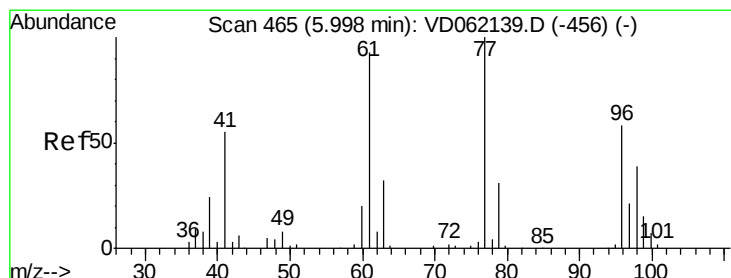
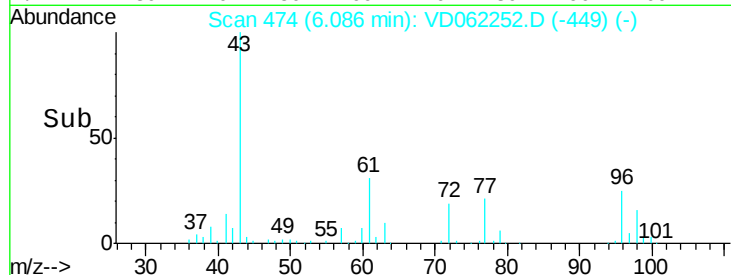
100000

50000

0

6.00 6.10 6.20

5/13/2019 11:55:54 AM



#26

2,2-Dichloropropane

Concen: 58.087 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.04 min

Lab File: VD062252.D

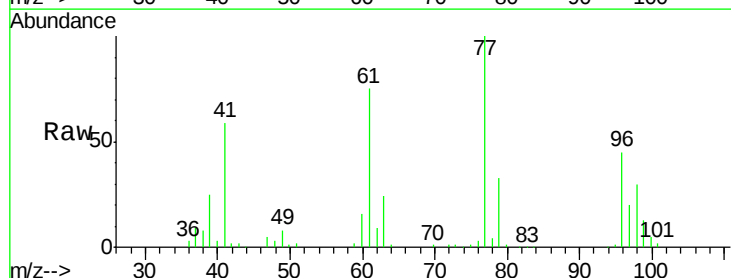
Acq: 12 May 2019 11:51

Tgt Ion: 77 Resp: 739468

Ion Ratio Lower Upper

77 100

97 19.9 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

6.04

200000

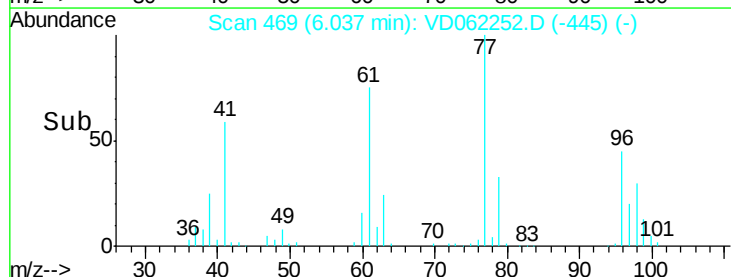
150000

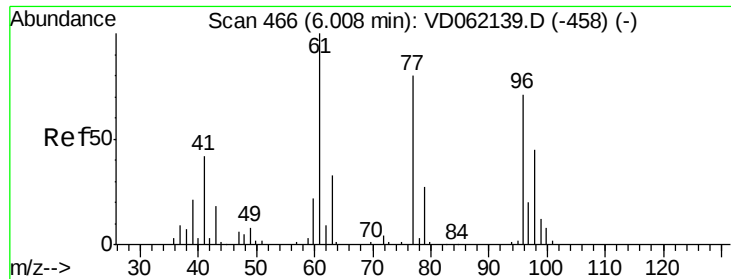
100000

50000

0

5.90 6.00 6.10 6.20





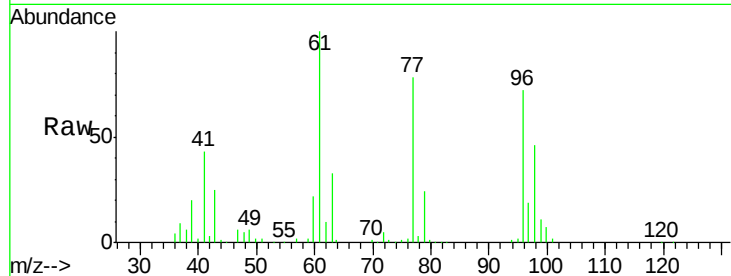
#27

cis-1,2-Dichloroethene
Concen: 53.577 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.05 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

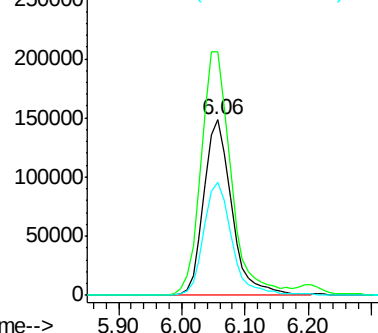
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	138.9	0.0	279.8	
98	64.2	0.0	136.0	

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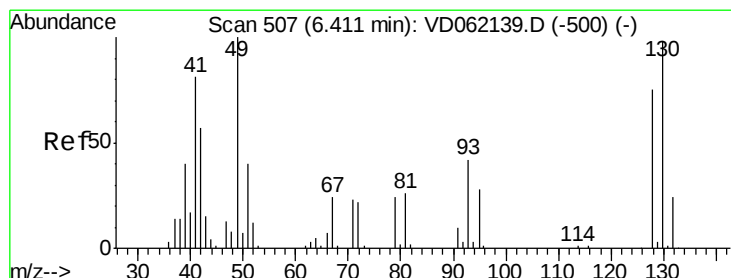
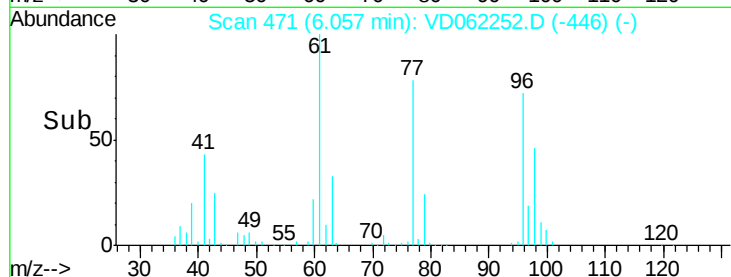


Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



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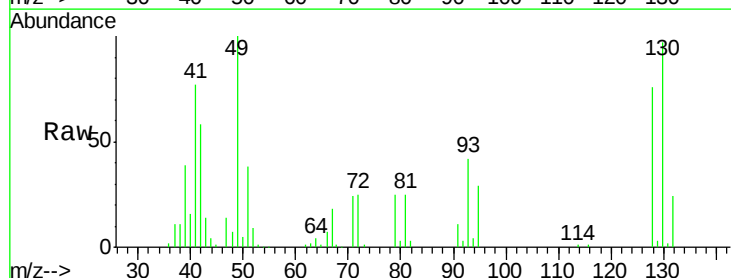
5/13/2019 11:55:54 AM



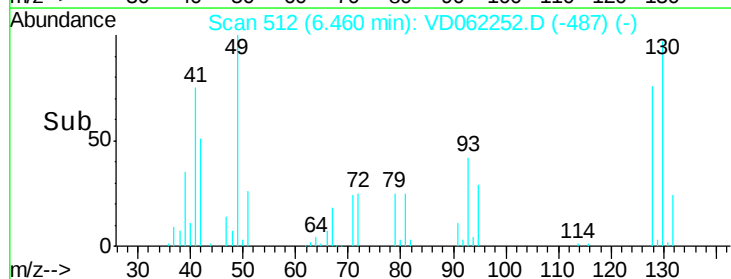
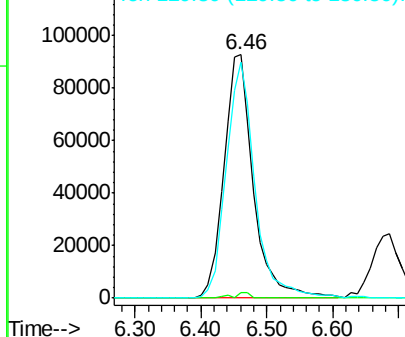
#28

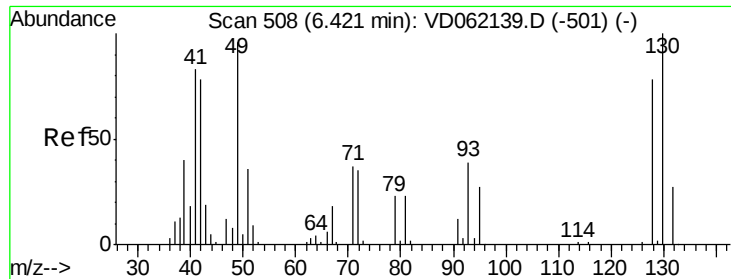
Bromochloromethane
Concen: 57.540 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.05 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.5	0.0	6.6	
130	97.0	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



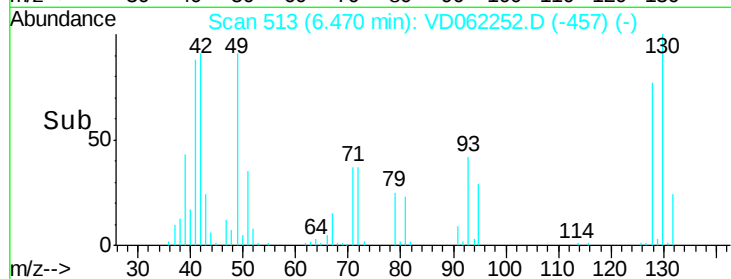
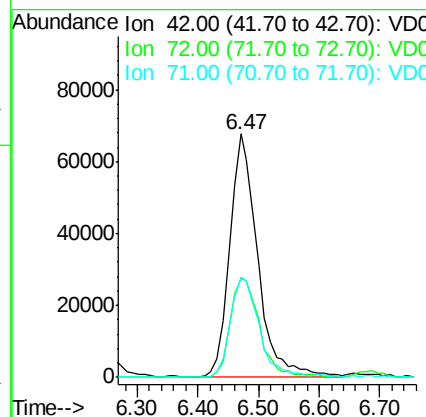
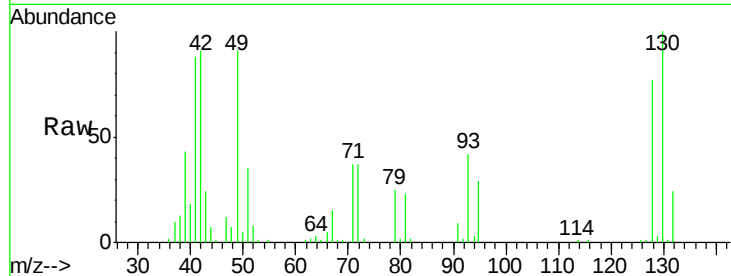


#29
Tetrahydrofuran
Concen: 246.830 ug/l
RT: 6.47 min Scan# 513
Delta R.T. 0.05 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

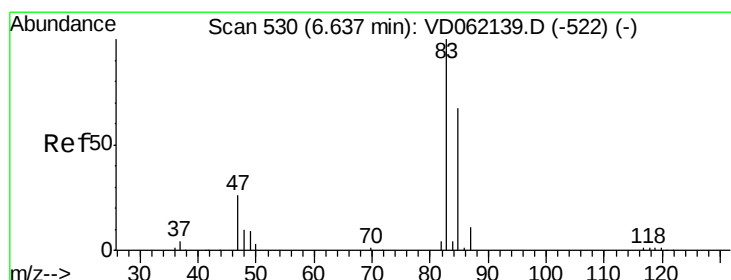
Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	42.9		37.8	56.6
71	42.5		36.7	55.1

Manual Integrations
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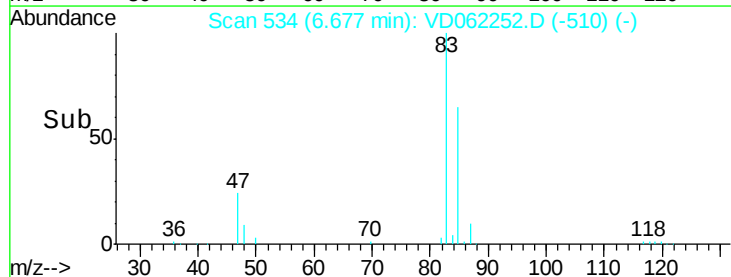
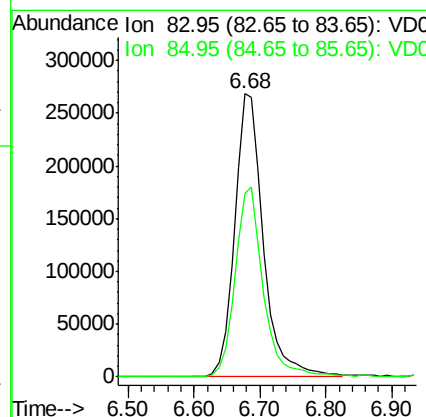
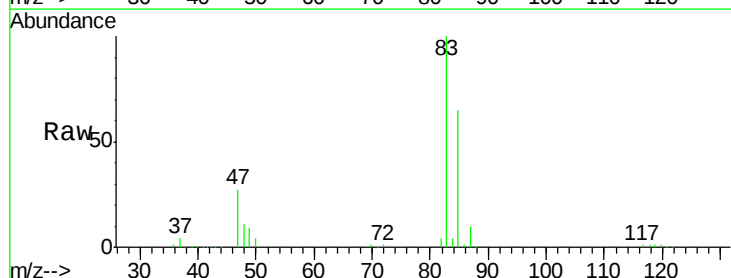
MMDadoda

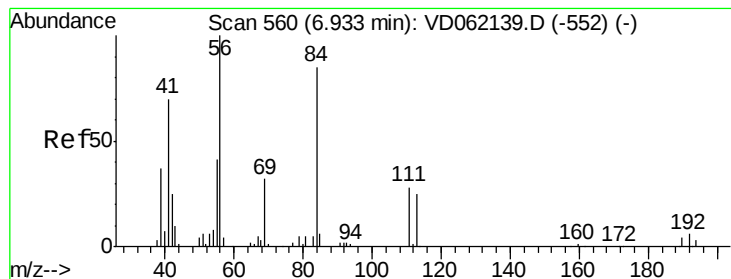
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#30
Chloroform
Concen: 53.104 ug/l
RT: 6.68 min Scan# 534
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	65.0		51.7	77.5





#31

Cyclohexane

Concen: 51.388 ug/l

RT: 6.97 min Scan# 564

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

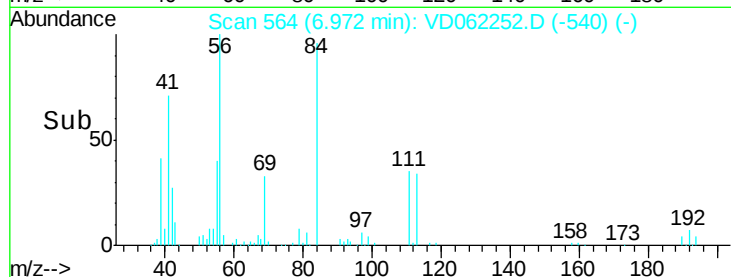
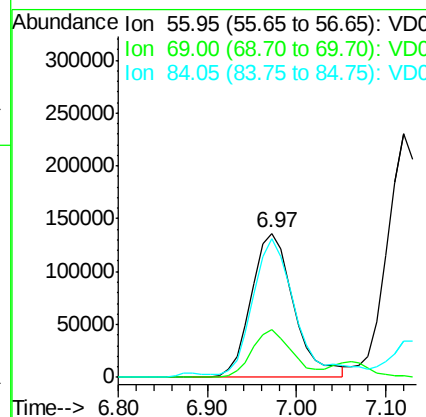
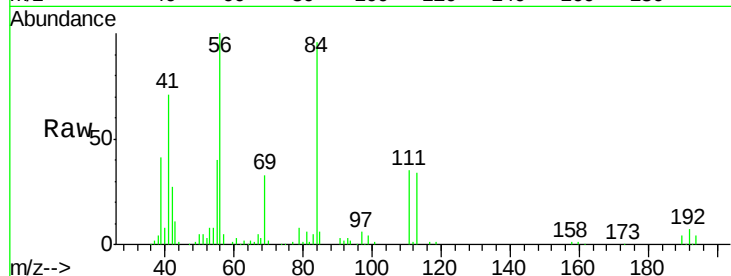
MSVOA_D

ClientSampleId :

VSTDCCC050

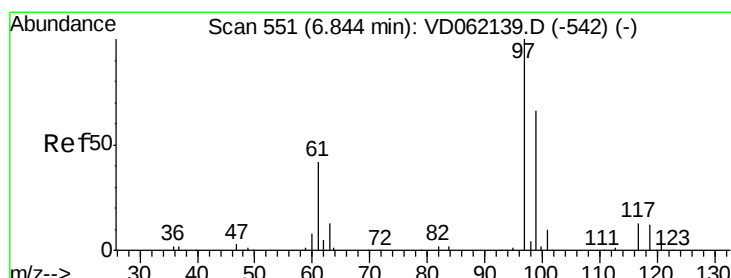
Tot Ion:	56	Resp:	449933
Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.8	38.6
84	96.5	72.2	108.4

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#32

1,1,1-Trichloroethane

Concen: 56.164 ug/l

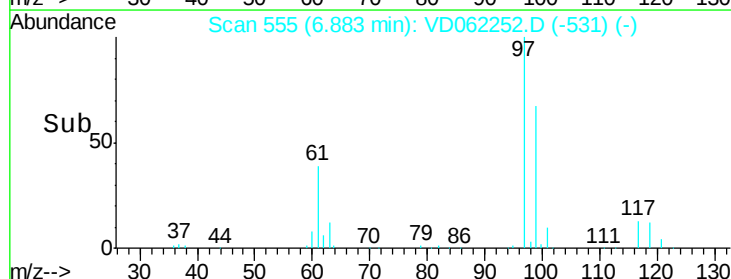
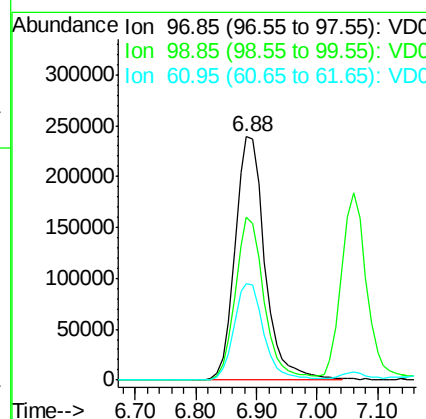
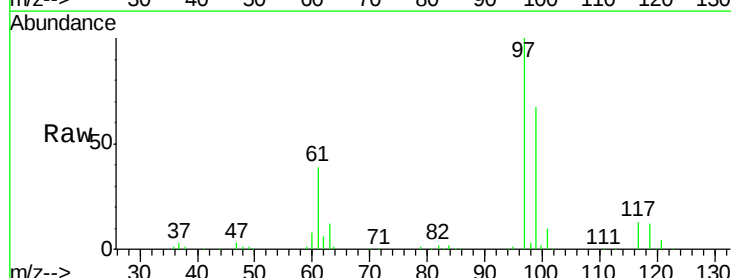
RT: 6.88 min Scan# 555

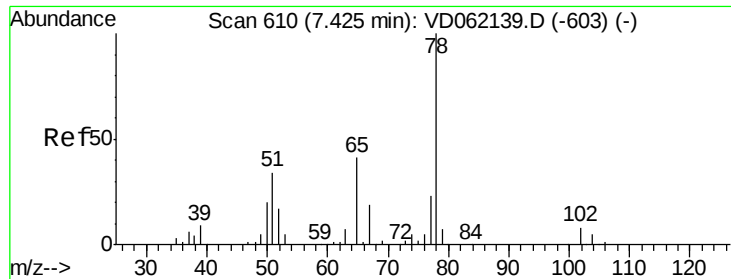
Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tgt Ion:	97	Resp:	817632
Ion	Ratio	Lower	Upper
97	100		
99	66.9	52.2	78.2
61	39.5	32.4	48.6





#33

1,2-Dichloroethane-d4

Concen: 49.360 ug/l

RT: 7.46 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tot Ion: 65 Resp: 411902

Ion Ratio Lower Upper

65 100

67 45.2 0.0 98.0

Instrument :

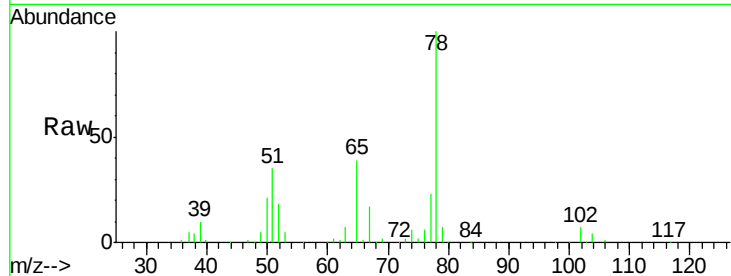
MSVOA_D

ClientSampleId :

VSTDCCC050

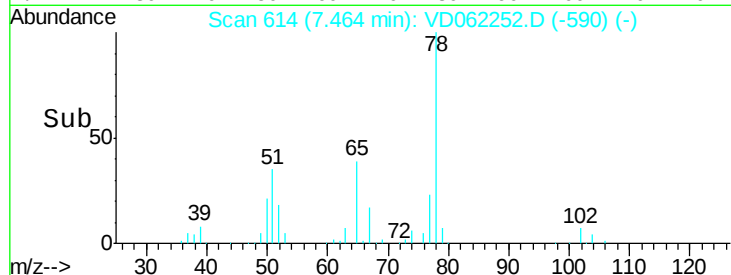
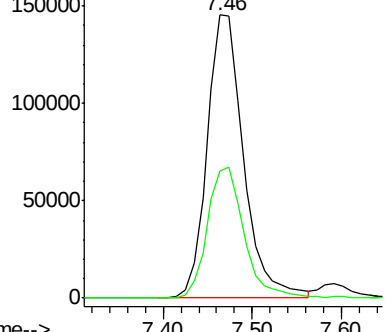
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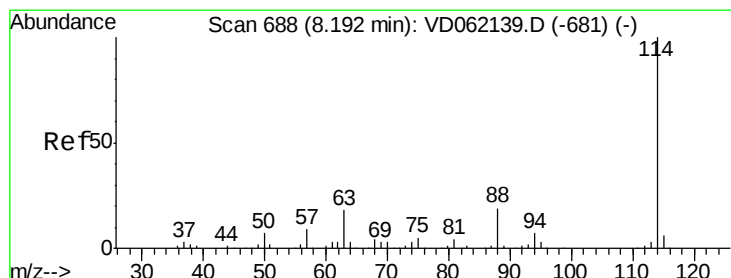
Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

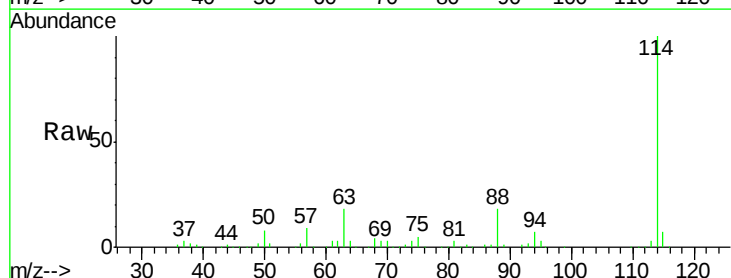
Tgt Ion: 114 Resp: 1218377

Ion Ratio Lower Upper

114 100

63 18.3 0.0 32.4

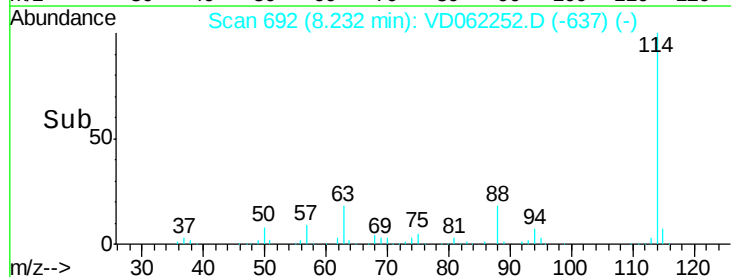
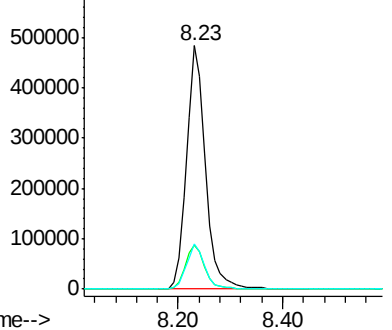
88 18.3 0.0 33.6

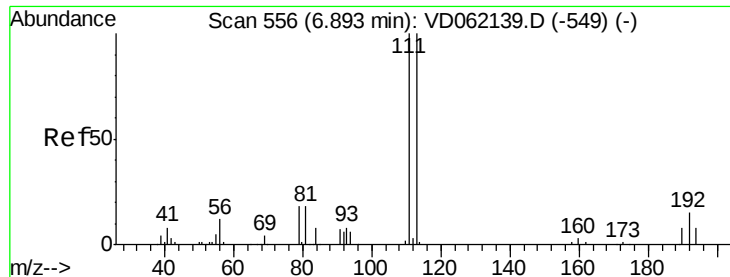


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 49.477 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.05 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

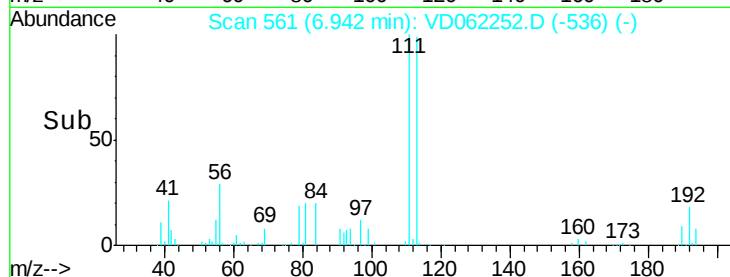
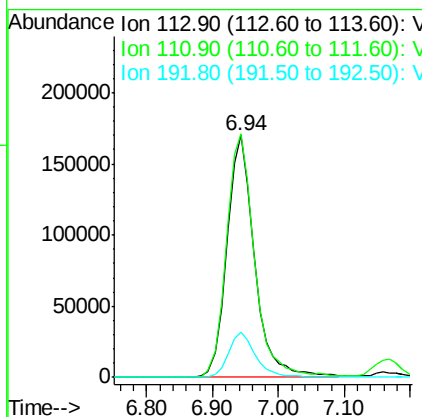
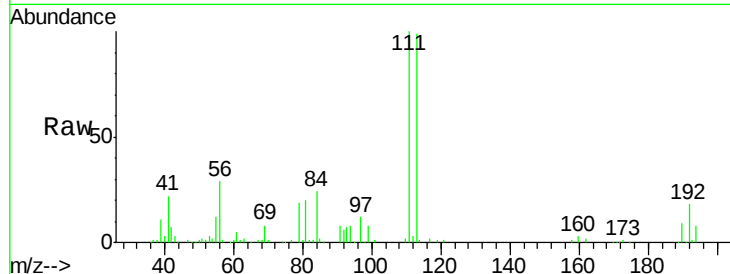
MSVOA_D

ClientSampleId :

VSTDCCC050

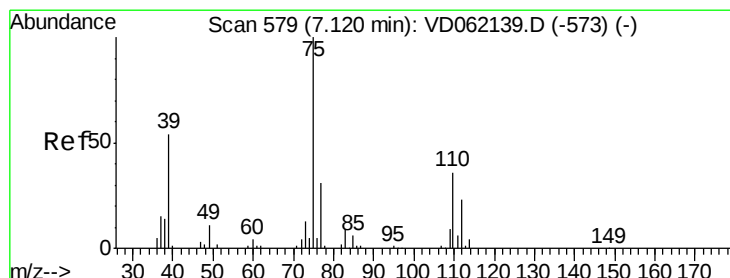
Tot Ion:	113	Resp:	500160
Ion	Ratio	Lower	Upper
113	100		
111	100.5	78.5	117.7
192	18.5	13.0	19.4

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#36

1,1-Dichloropropene

Concen: 55.635 ug/l

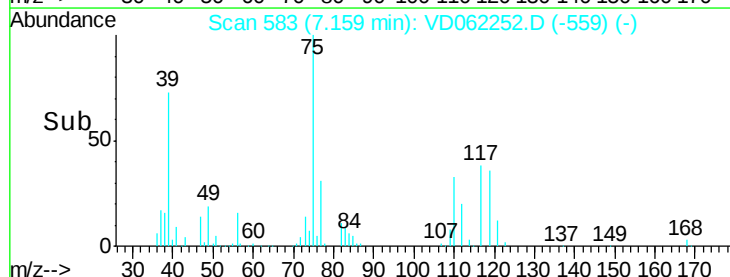
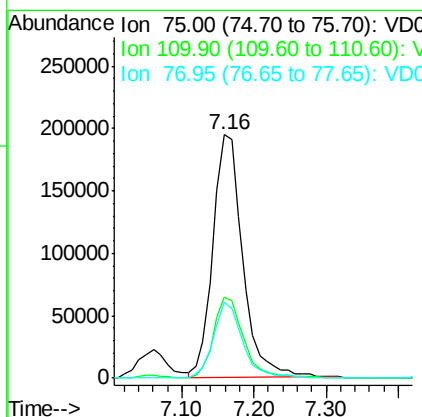
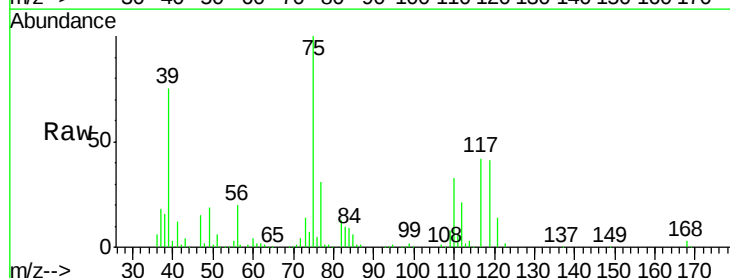
RT: 7.16 min Scan# 583

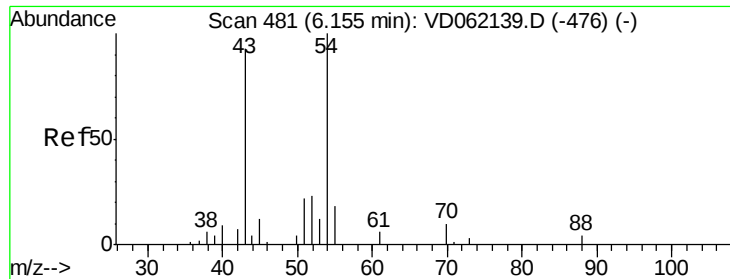
Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tgt Ion:	75	Resp:	555767
Ion	Ratio	Lower	Upper
75	100		
110	33.3	19.1	57.1
77	31.4	25.6	38.4



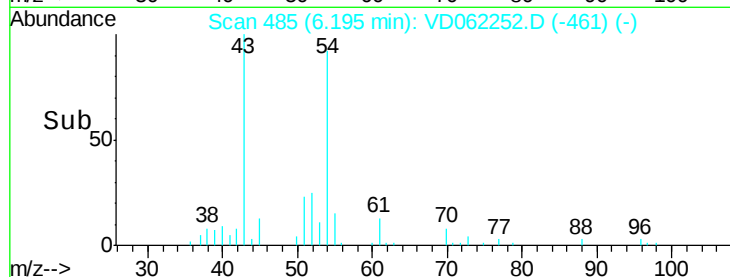
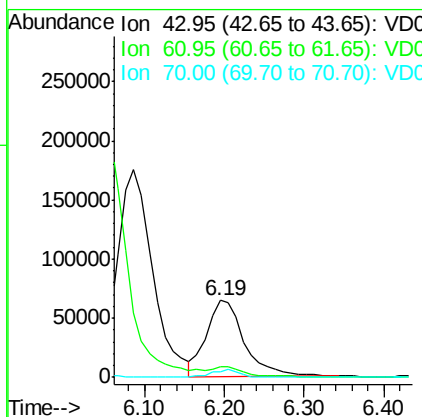
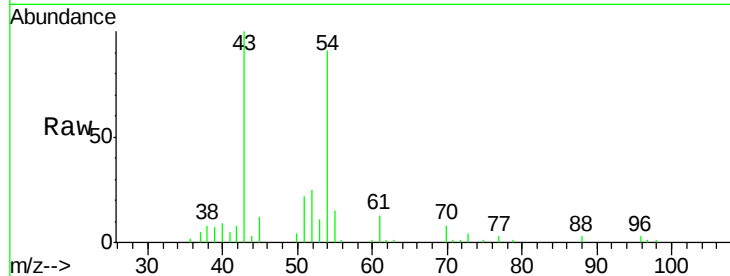


#37
Ethyl Acetate
Concen: 50.105 ug/l
RT: 6.19 min Scan# 485
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

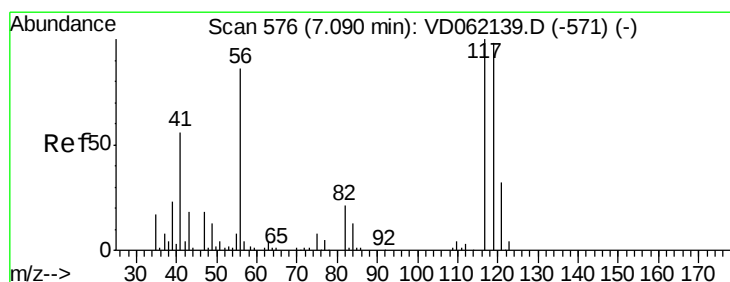
Tot Ion	Ratio	Lower	Upper
43	100		
61	13.1	14.7	22.1#
70	8.0	7.8	11.6

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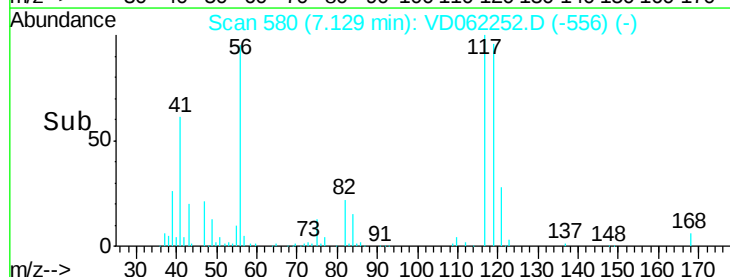
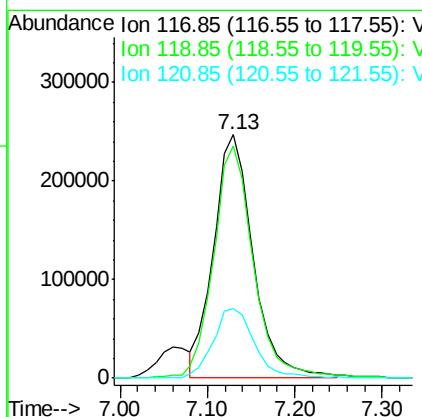
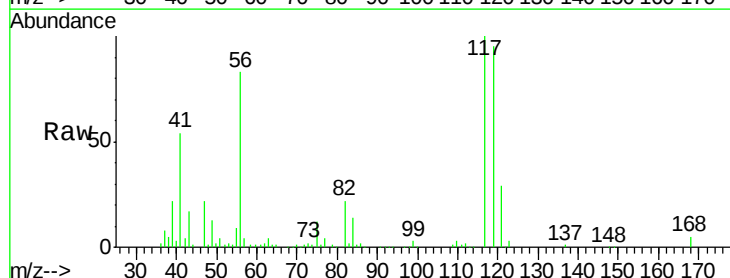
MMDadoda

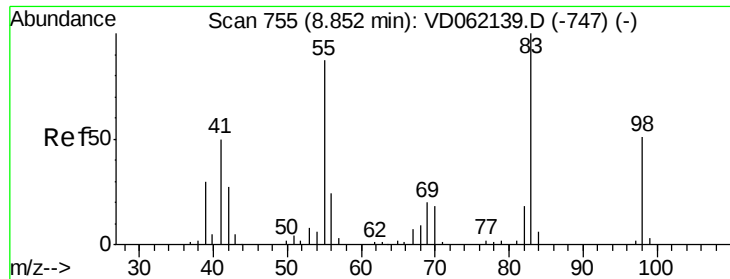
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#38
Carbon Tetrachloride
Concen: 56.447 ug/l m
RT: 7.13 min Scan# 580
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	75.8	113.8
121	28.7	25.9	38.9



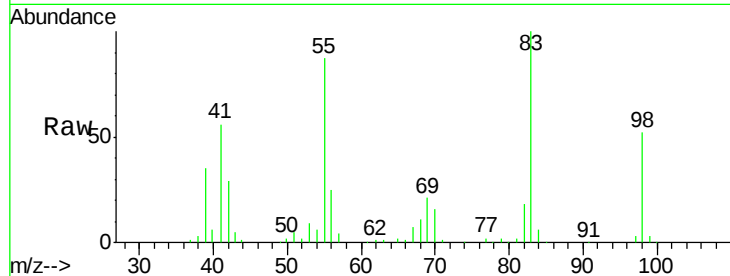


#39
Methvlcvclohexane
Concen: 52.405 ug/l
RT: 8.88 min Scan# 758
Delta R.T. 0.03 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

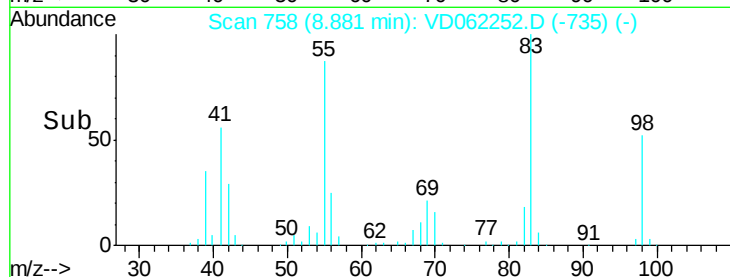
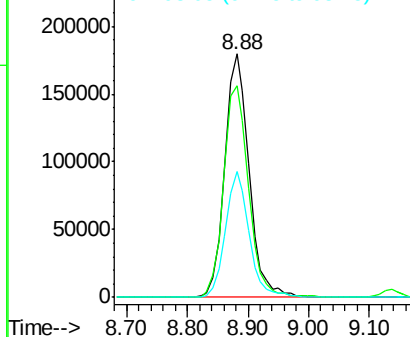
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.0	68.2	102.4
98	51.7	38.2	57.4

Manual Integrations
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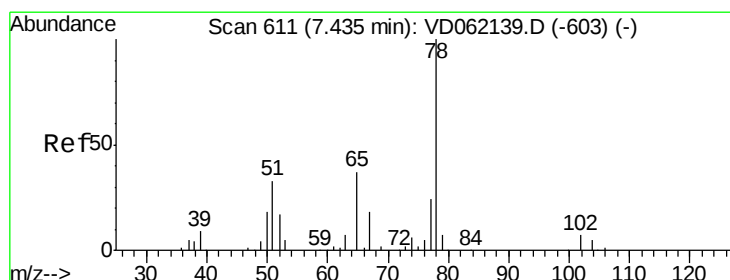


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC



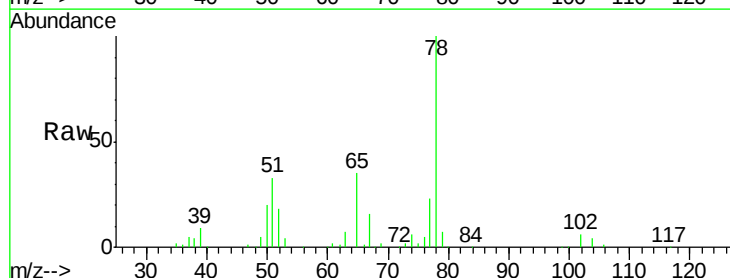
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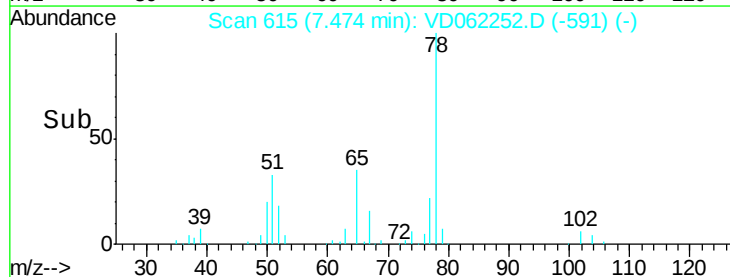
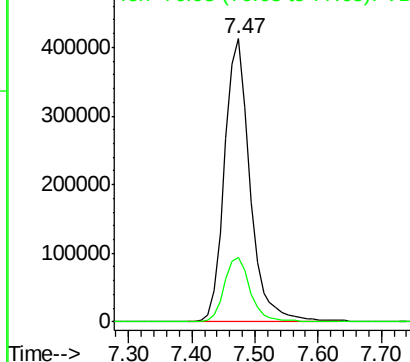


#40
Benzene
Concen: 51.286 ug/l
RT: 7.47 min Scan# 615
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.7	29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC



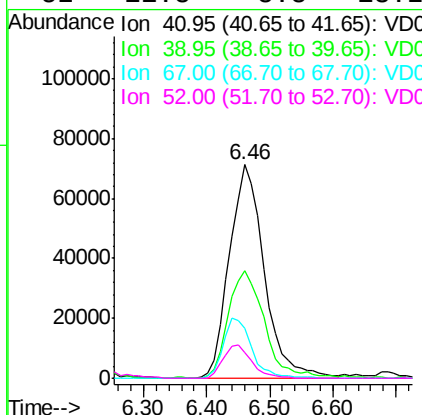
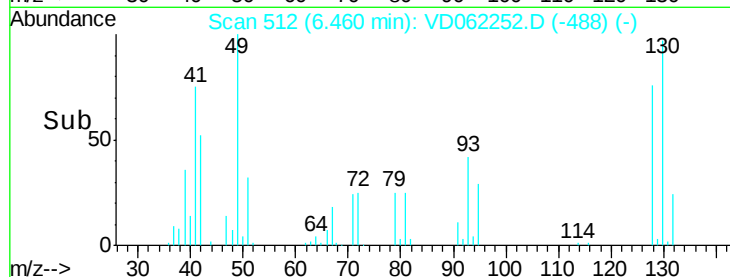
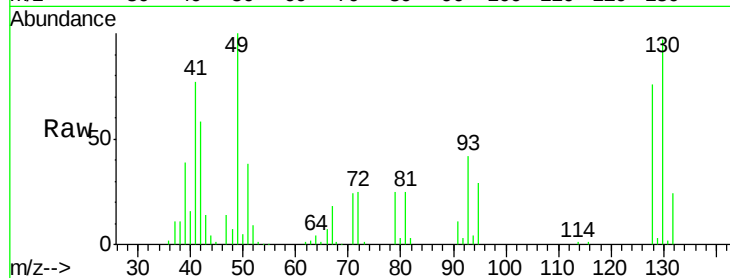


#41
Methacrylonitrile
Concen: 52.736 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

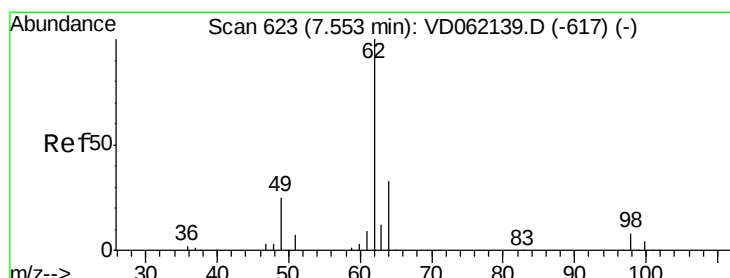
Tot Ion	Ratio	Lower	Upper
41	100		
39	50.4	34.1	51.1
67	24.4	23.8	35.6
52	11.8	8.8	13.2

Manual Integrations
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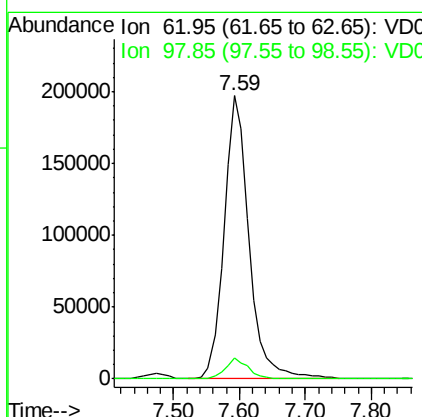
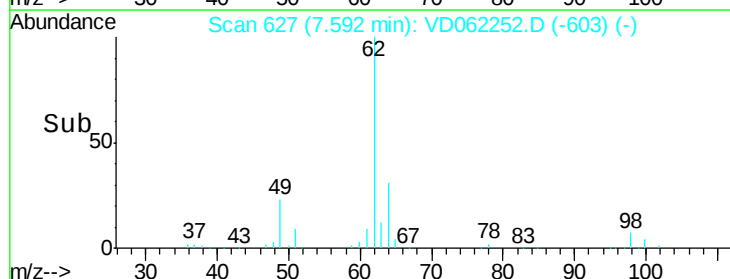
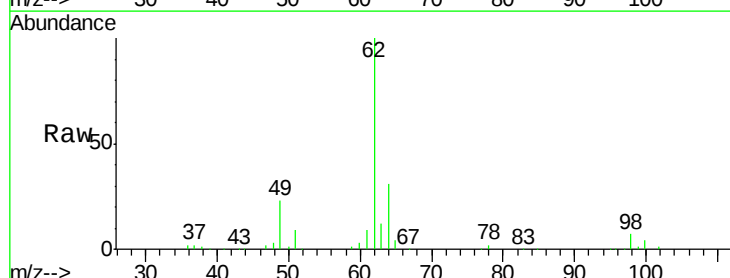
MMDadoda

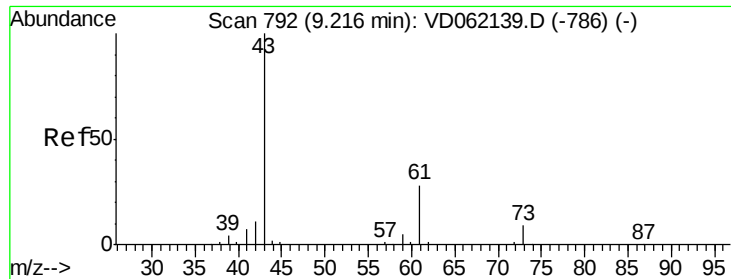
5/13/2019 11:55:54 AM



#42
1,2-Dichloroethane
Concen: 54.661 ug/l
RT: 7.59 min Scan# 627
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	17.8





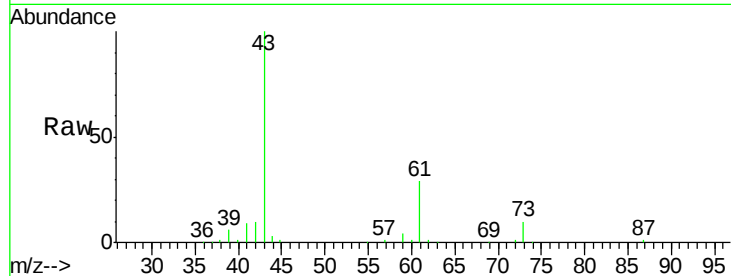
#43

Isopropyl Acetate
 Concen: 52.867 ug/l
 RT: 9.26 min Scan# 796
 Delta R.T. 0.04 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

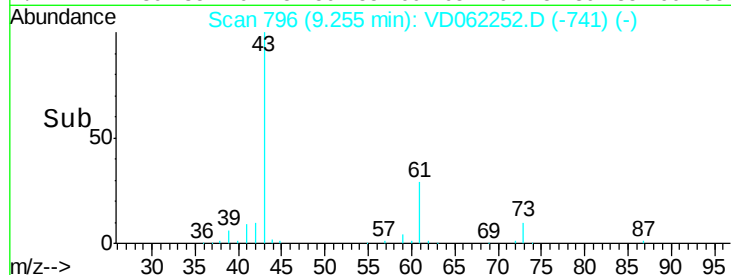
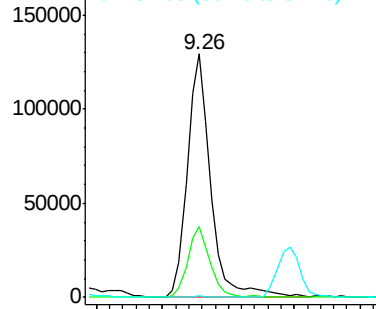
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.0	25.1	37.7
87	0.7	0.0	0.0

Manual Integrations
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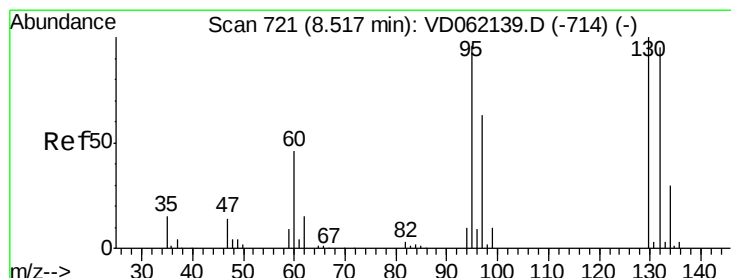


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



MMDadoda

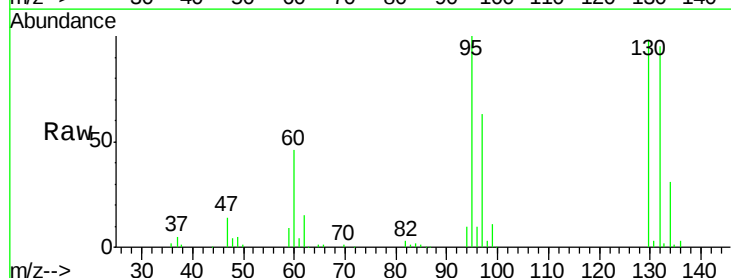
5/13/2019 11:55:54 AM



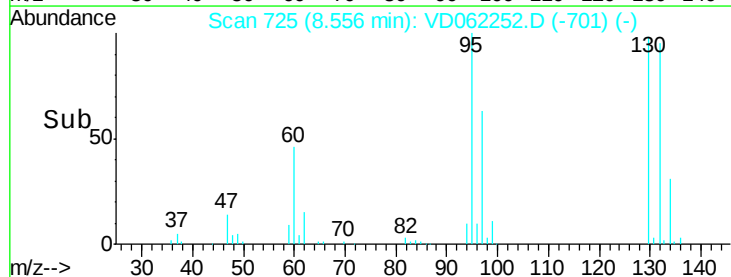
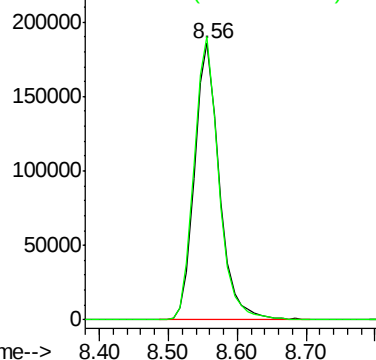
#44

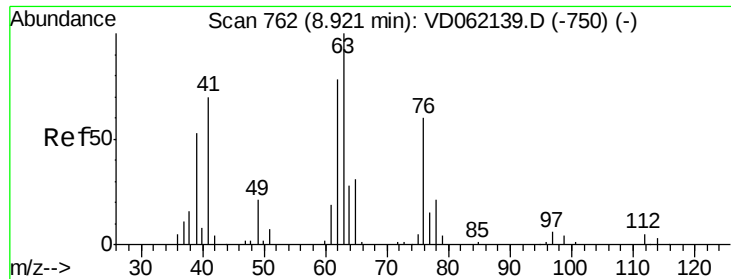
Trichloroethene
 Concen: 53.902 ug/l
 RT: 8.56 min Scan# 725
 Delta R.T. 0.04 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	174.0



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC



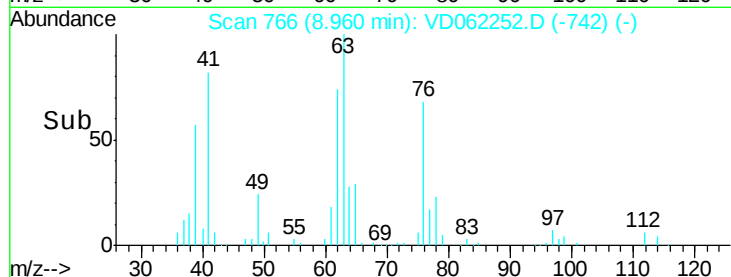
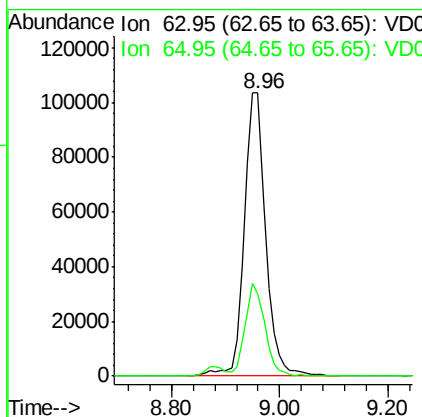
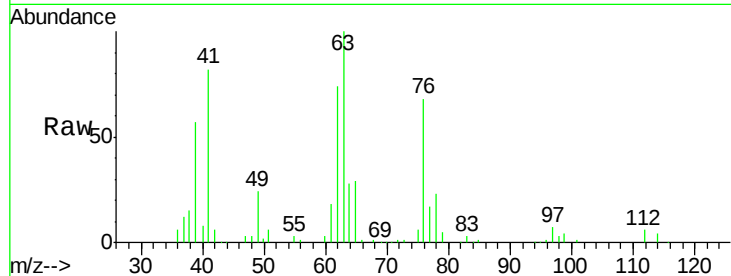


#45
1,2-Dichloropropane
Concen: 50.847 ug/l
RT: 8.96 min Scan# 766
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

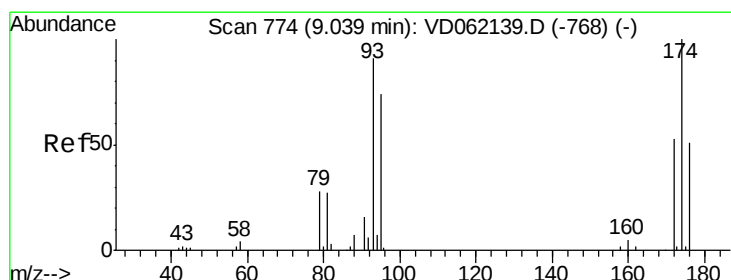
Tot Ion: 63 Resp: 283705
Ion Ratio Lower Upper
63 100
65 29.3 23.8 35.6

Manual Integrations
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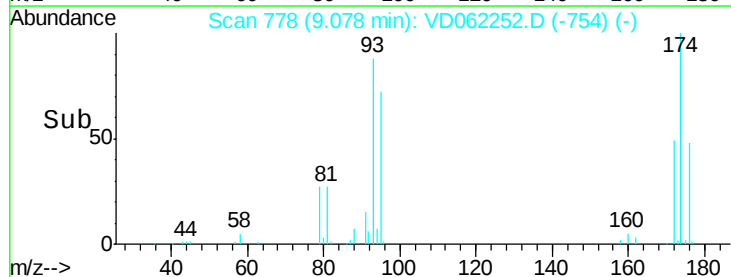
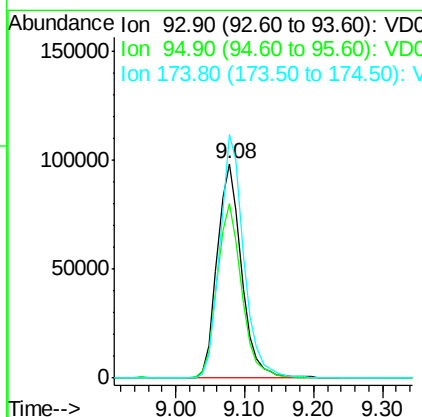
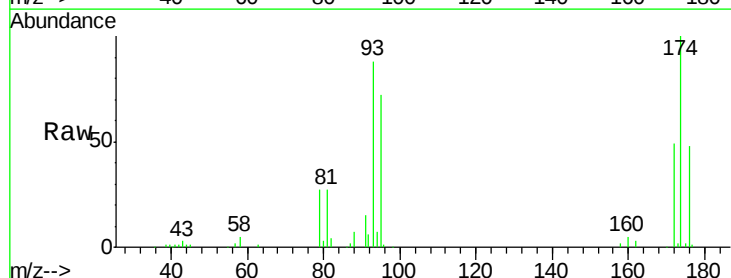
MMDadoda

5/13/2019 11:55:54 AM



#46
Dibromomethane
Concen: 53.168 ug/l
RT: 9.08 min Scan# 778
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion: 93 Resp: 241237
Ion Ratio Lower Upper
93 100
95 81.5 64.8 97.2
174 113.4 79.3 118.9





#47

Bromodichloromethane

Concen: 55.270 ug/l

RT: 9.39 min Scan# 810

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

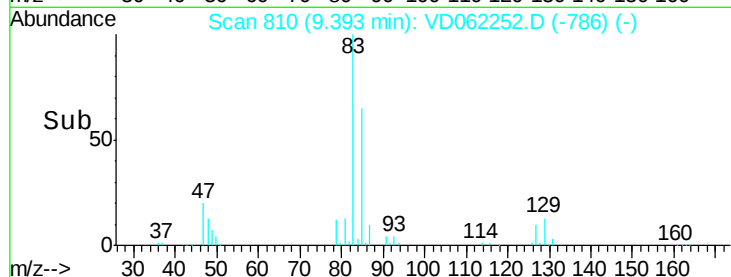
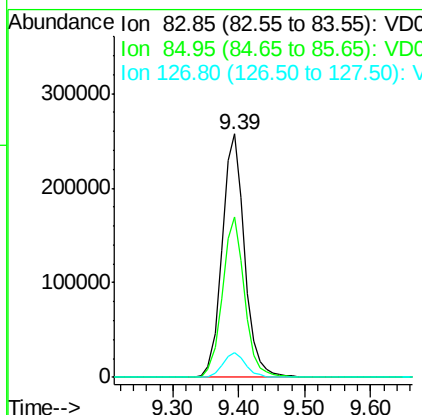
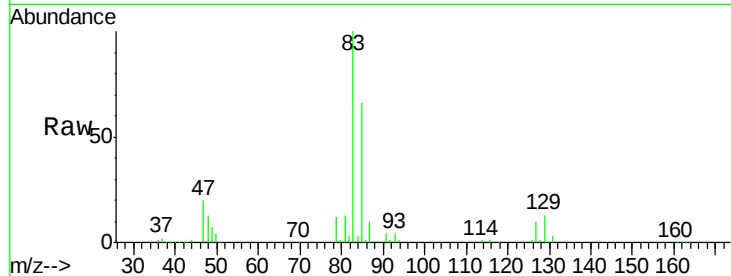
MSVOA_D

ClientSampleId :

VSTDCCC050

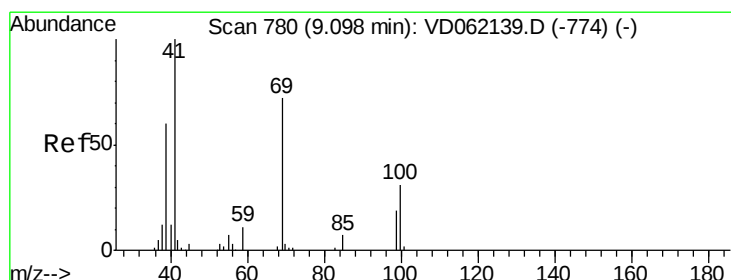
Tot Ion:	83	Resp:	613402
Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.9	76.3
127	10.1	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 54.399 ug/l

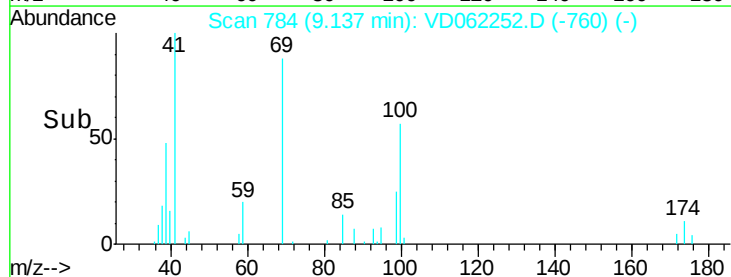
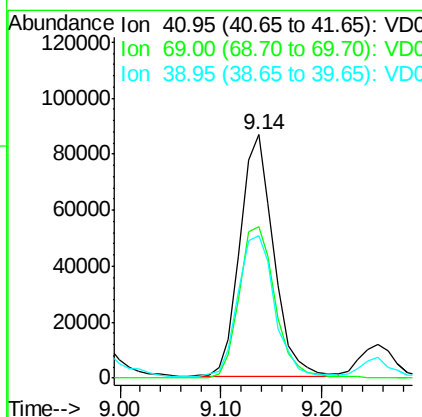
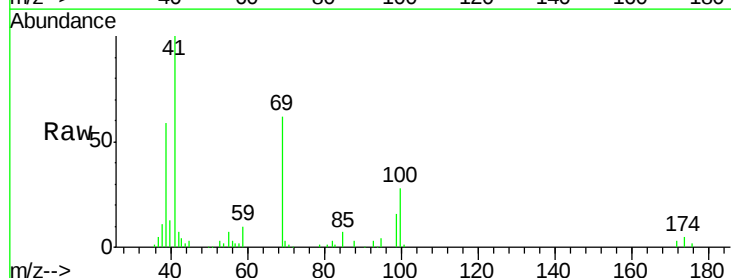
RT: 9.14 min Scan# 784

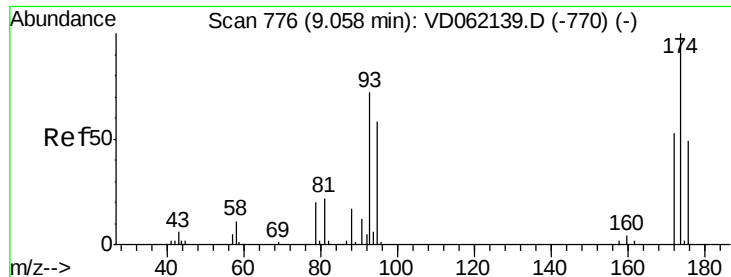
Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tgt Ion:	41	Resp:	201320
Ion	Ratio	Lower	Upper
41	100		
69	62.2	64.2	96.2#
39	58.7	46.8	70.2



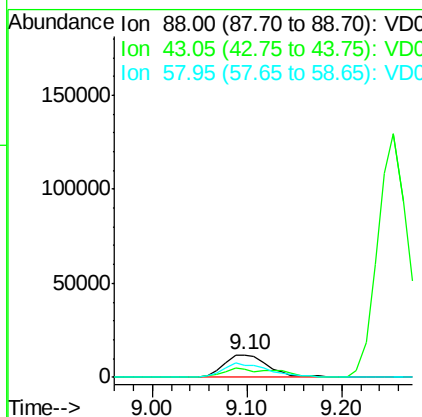
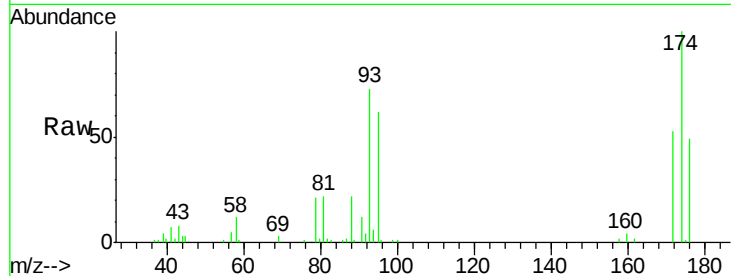


#49
1,4-Dioxane
Concen: 979.516 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

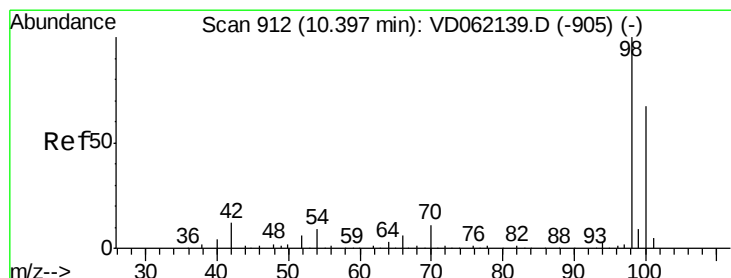
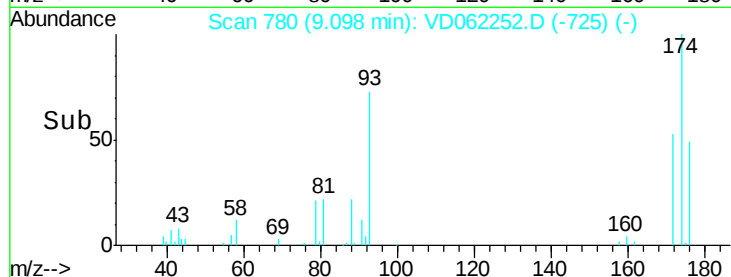
Tot Ion	Ratio	Lower	Upper
88	100		
43	38.0	23.4	35.0#
58	55.0	44.0	66.0

Manual Integrations
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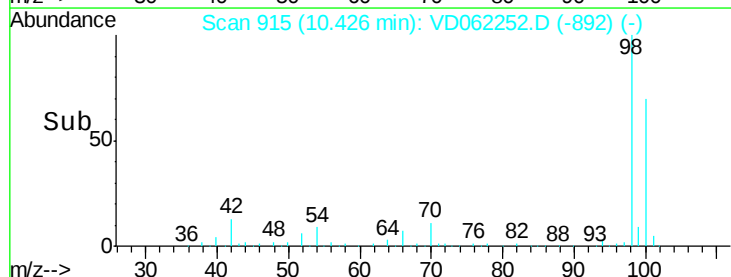
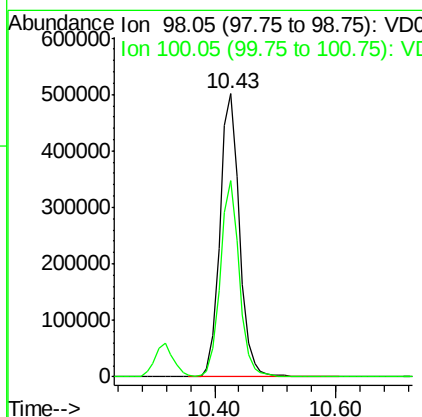
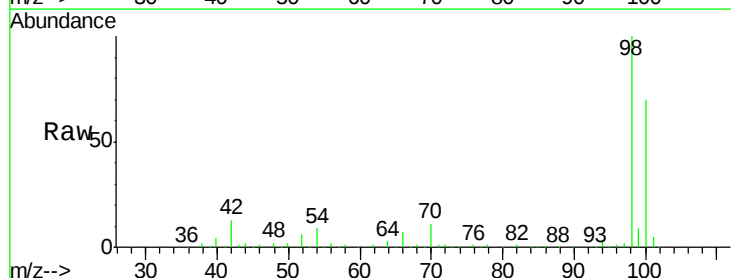
MMDadoda

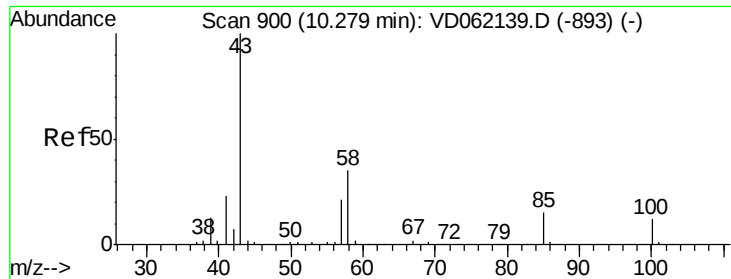
5/13/2019 11:55:54 AM



#50
Toluene-d8
Concen: 45.957 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.6	53.8	80.8





#51

4-Methyl-2-Pentanone

Concen: 266.916 ug/l

RT: 10.32 min Scan# 904

Delta R.T. 0.04 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tot Ion: 43 Resp: 1030861

Ion Ratio Lower Upper

43 100

58 35.7 30.4 45.6

Instrument :

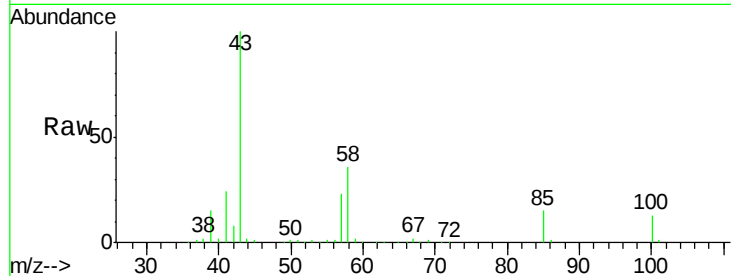
MSVOA_D

ClientSampleId :

VSTDCCC050

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

400000

300000

200000

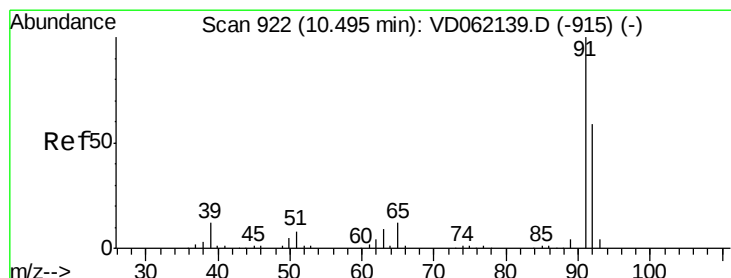
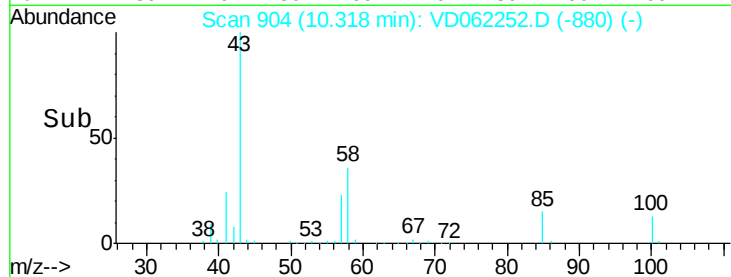
100000

0

Time-->

MMDadoda

5/13/2019 11:55:54 AM



#52

Toluene

Concen: 52.128 ug/l

RT: 10.52 min Scan# 925

Delta R.T. 0.03 min

Lab File: VD062252.D

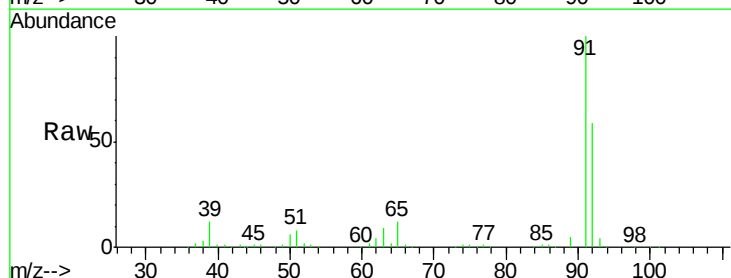
Acq: 12 May 2019 11:51

Tgt Ion: 92 Resp: 765080

Ion Ratio Lower Upper

92 100

91 169.9 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.52

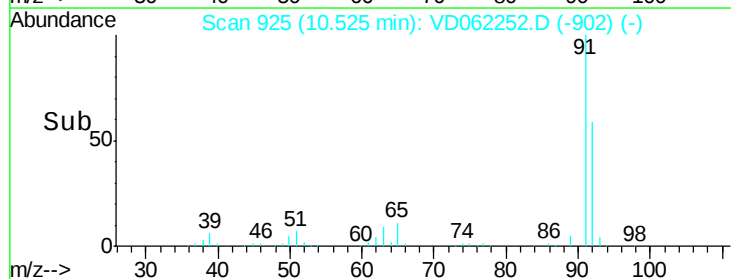
600000

400000

200000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 55.650 ug/l

RT: 10.93 min Scan# 966

Delta R.T. 0.03 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tot Ion: 75 Resp: 533800

Ion Ratio Lower Upper

75 100

77 31.9 25.8 38.8

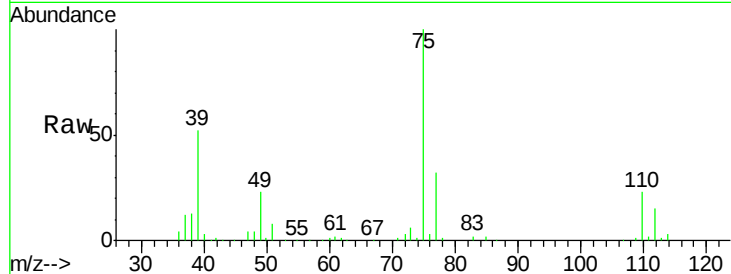
Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Manual Integrations
APPROVED



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.93

250000

200000

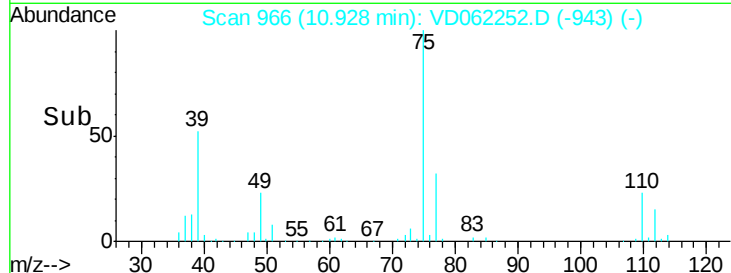
150000

100000

50000

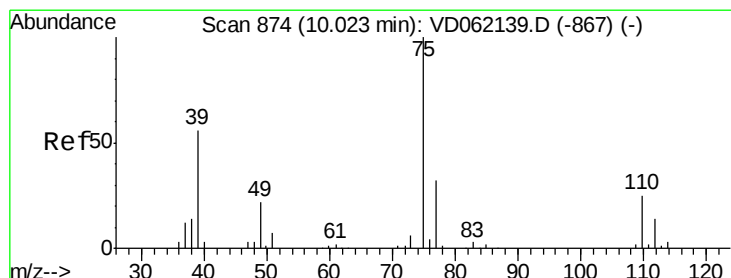
0

Time--> 10.80 10.90 11.00 11.10



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#54

cis-1,3-Dichloropropene

Concen: 56.012 ug/l

RT: 10.05 min Scan# 877

Delta R.T. 0.03 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

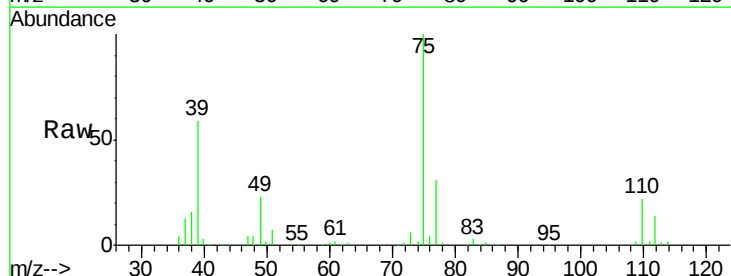
Tgt Ion: 75 Resp: 586121

Ion Ratio Lower Upper

75 100

77 31.3 25.5 38.3

39 59.1 39.4 59.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

10.05

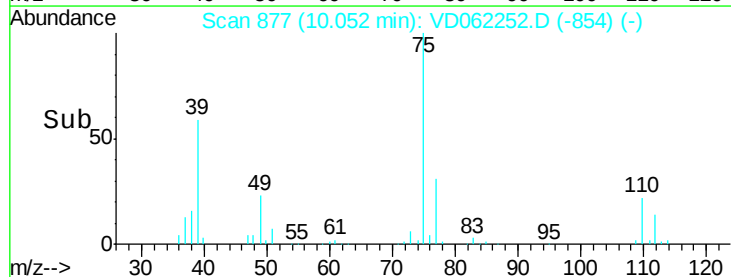
300000

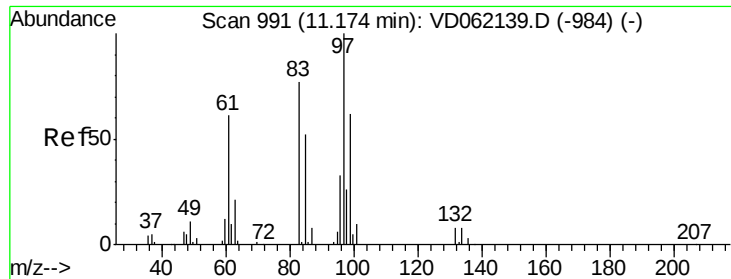
200000

100000

0

Time--> 9.90 10.00 10.10 10.20



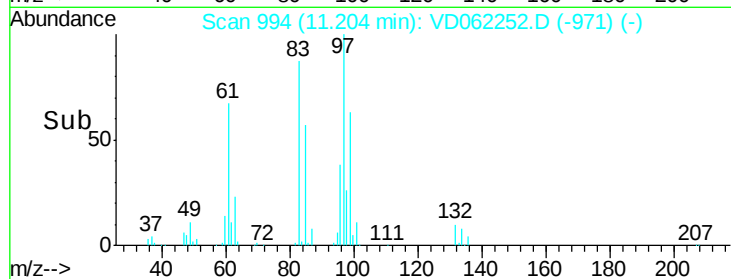
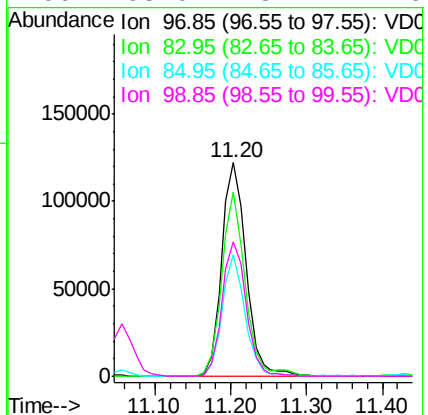
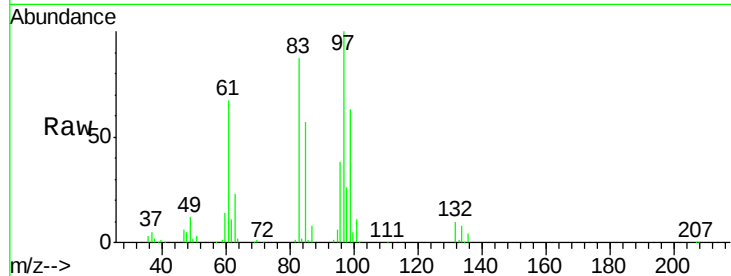


#55
 1,1,2-Trichloroethane
 Concen: 52.453 ug/l
 RT: 11.20 min Scan# 994
 Delta R.T. 0.03 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

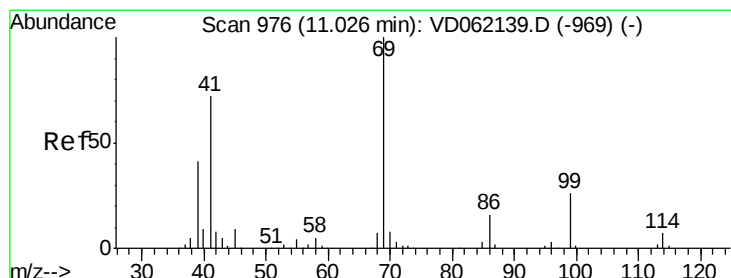
Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		272388		
83	86.6	65.7	98.5		
85	56.9	45.6	68.4		
99	63.0	48.4	72.6		

Manual Integrations
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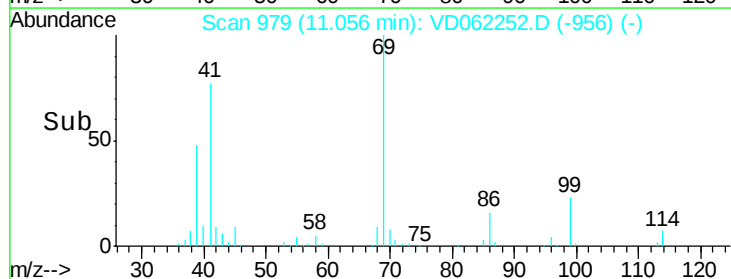
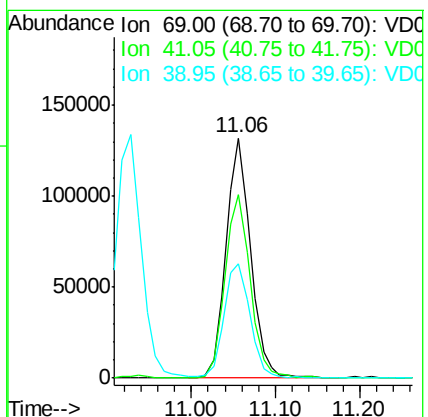
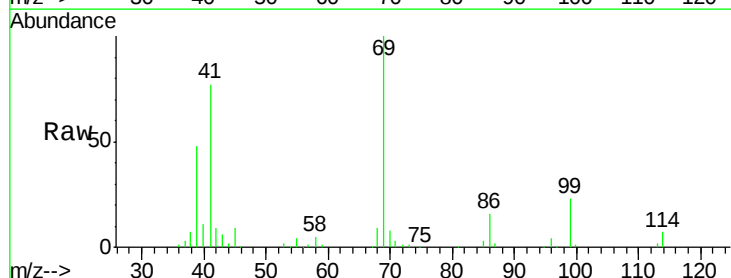
MMDadoda

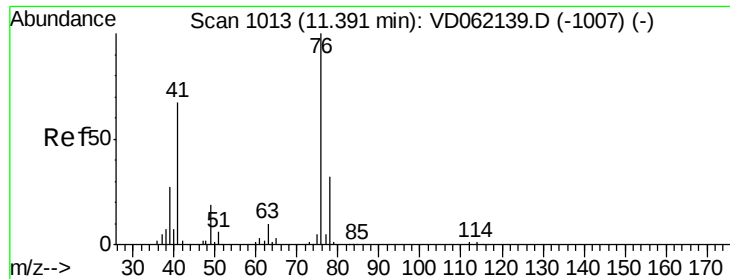
5/13/2019 11:55:54 AM



#56
 Ethyl methacrylate
 Concen: 49.648 ug/l
 RT: 11.06 min Scan# 979
 Delta R.T. 0.03 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		267917		
41	76.5	56.3	84.5		
39	47.9	29.4	44.2#		





#57

1,3-Dichloropropane

Concen: 52.268 ug/l

RT: 11.42 min Scan# 1016

Delta R.T. 0.03 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

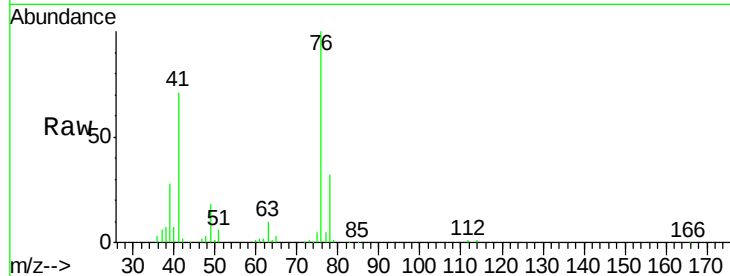
Tot Ion: 76 Resp: 410065

Ion Ratio Lower Upper

76 100

78 31.9 26.2 39.2

Manual Integrations
APPROVED



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.42

200000

150000

100000

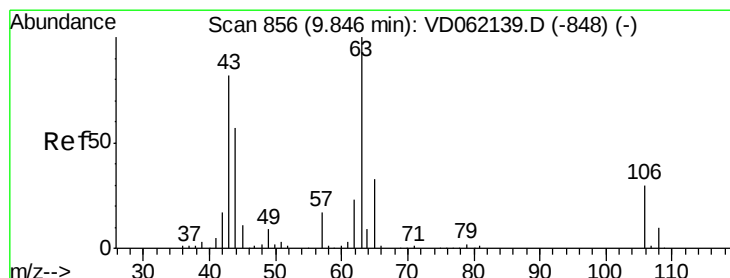
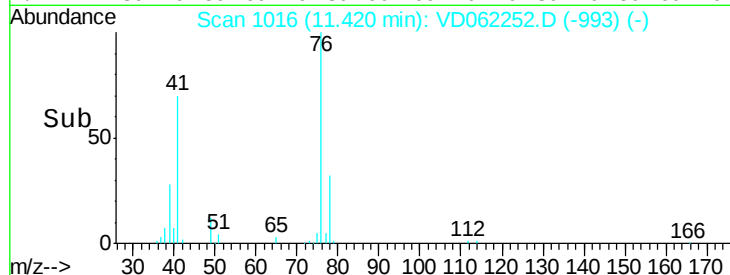
50000

0

Time--> 11.30 11.40 11.50

MMDadoda

5/13/2019 11:55:54 AM



#58

2-Chloroethyl Vinyl ether

Concen: 276.440 ug/l

RT: 9.88 min Scan# 859

Delta R.T. 0.03 min

Lab File: VD062252.D

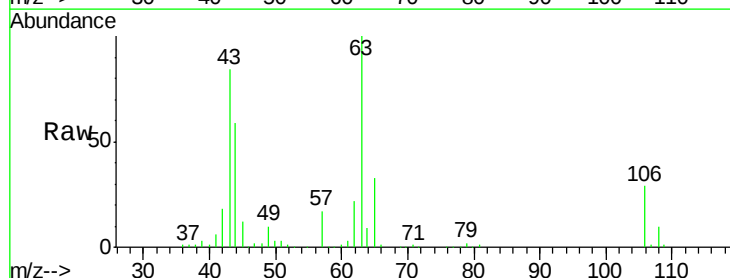
Acq: 12 May 2019 11:51

Tgt Ion: 63 Resp: 814851

Ion Ratio Lower Upper

63 100

106 28.6 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.88

400000

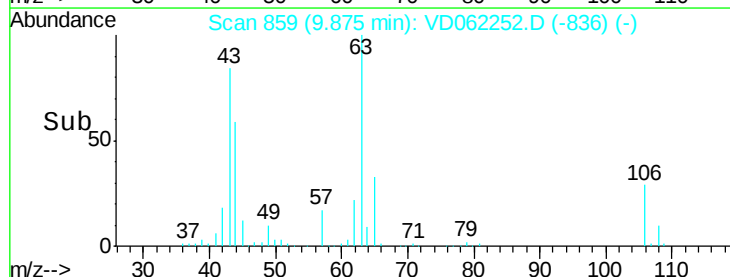
300000

200000

100000

0

Time--> 9.80 9.90 10.00



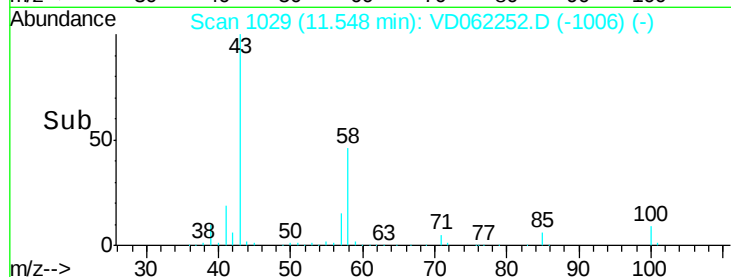
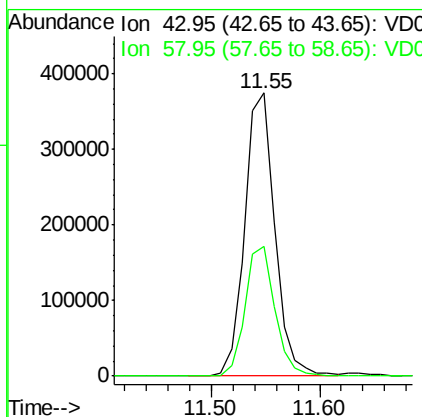
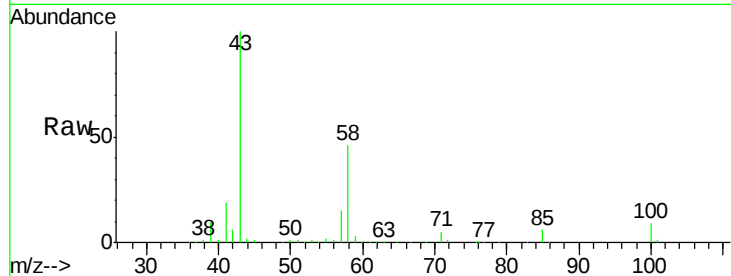


#59
2-Hexanone
Concen: 254.134 ug/l
RT: 11.55 min Scan# 1029
Delta R.T. 0.03 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

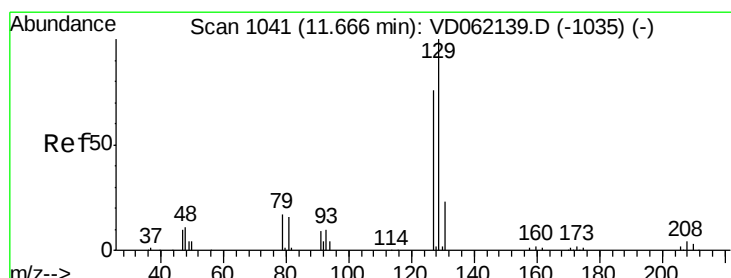
Tot Ion: 43 Resp: 723400
Ion Ratio Lower Upper
43 100
58 45.7 25.4 76.4

Manual Integrations
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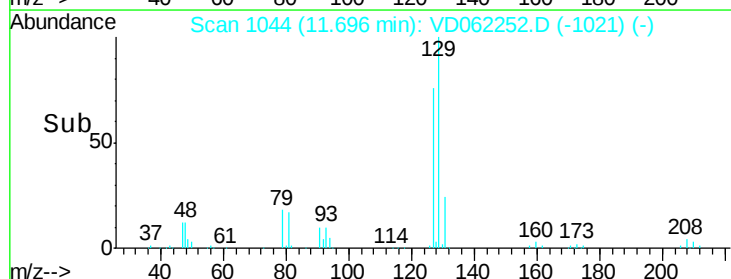
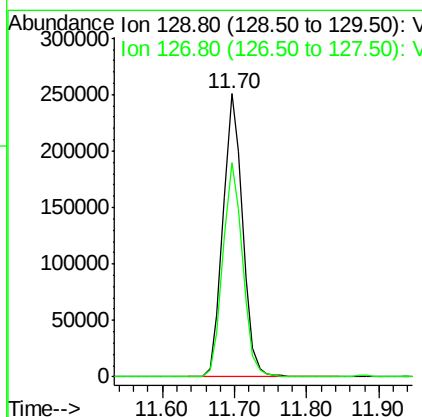
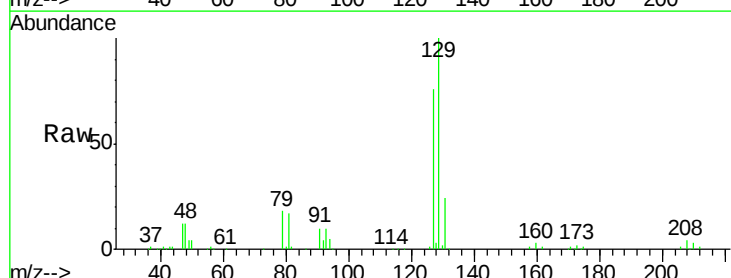
MMDadoda

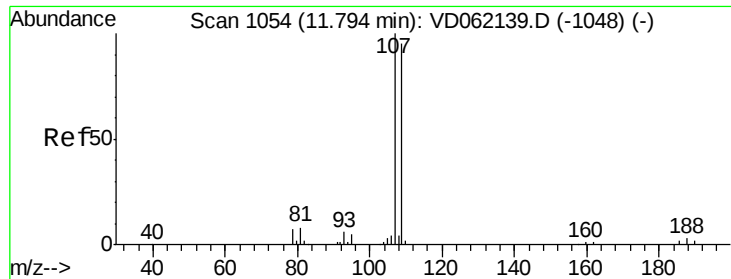
5/13/2019 11:55:54 AM



#60
Dibromochloromethane
Concen: 52.810 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. 0.03 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion: 129 Resp: 473953
Ion Ratio Lower Upper
129 100
127 75.5 38.0 113.9



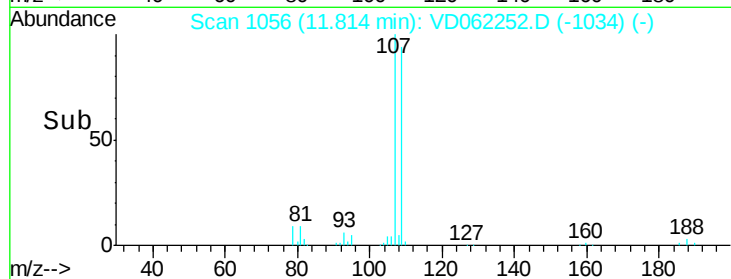
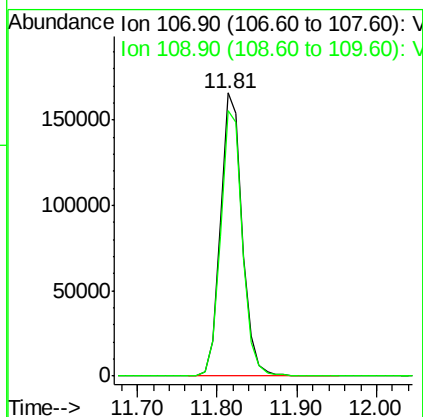
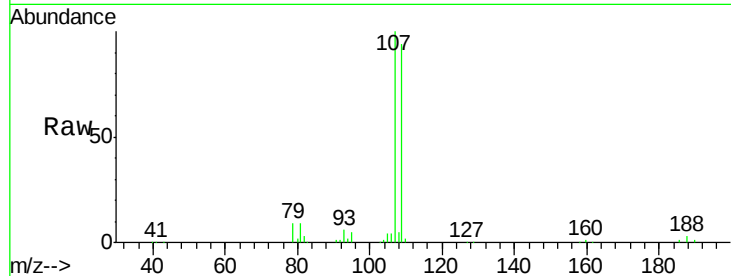


#61
1,2-Dibromoethane
Concen: 50.408 ug/l
RT: 11.81 min Scan# 1056
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

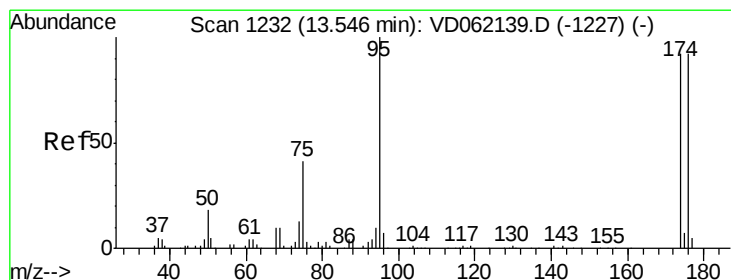
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.6	78.3	117.5

Manual Integrations
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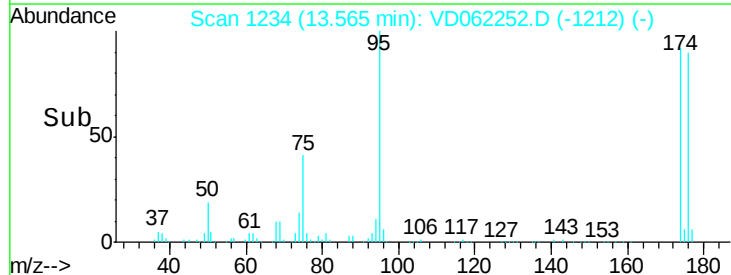
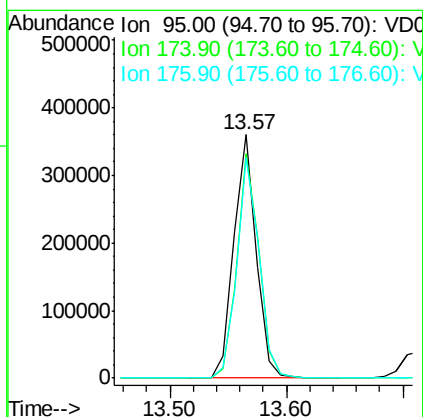
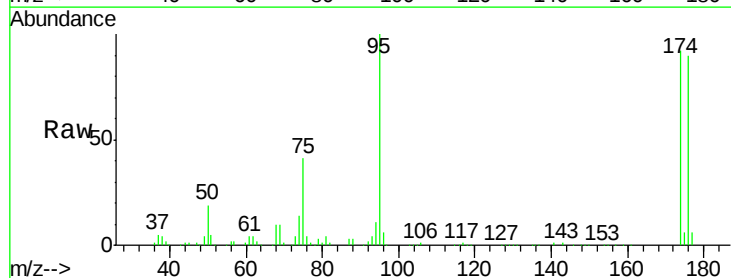
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#62
4-Bromofluorobenzene
Concen: 48.811 ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.9	0.0	181.8
176	90.5	0.0	174.4



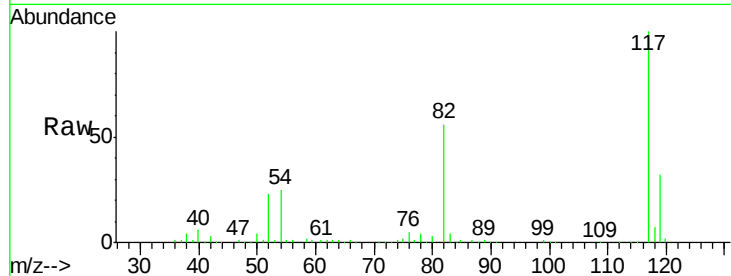


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

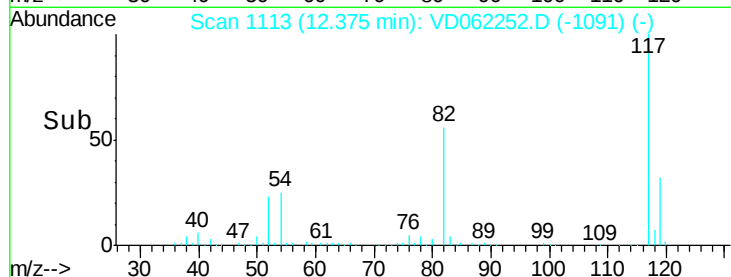
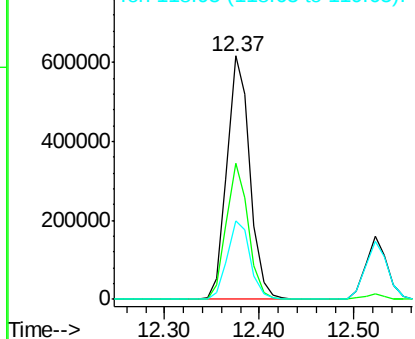
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1028957
Ion Ratio Lower Upper
117 100
82 55.6 36.2 54.2#
119 32.1 26.2 39.4

Manual Integrations
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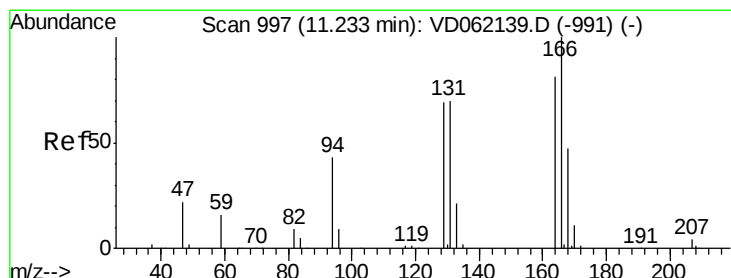


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V



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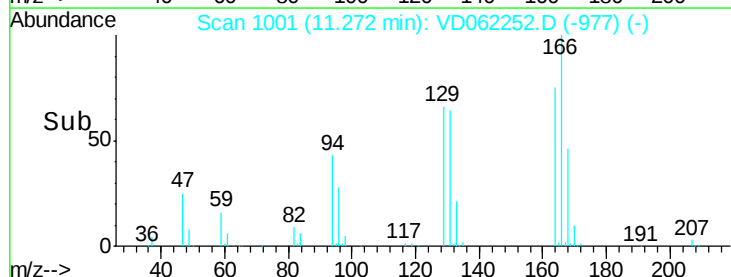
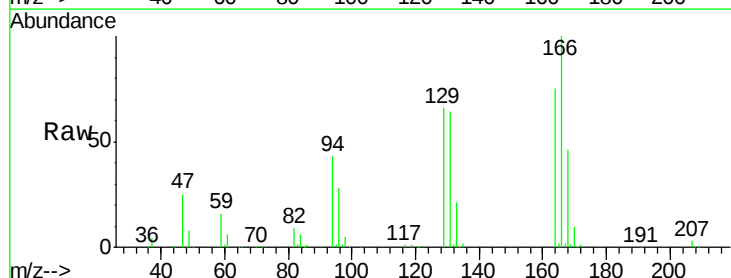
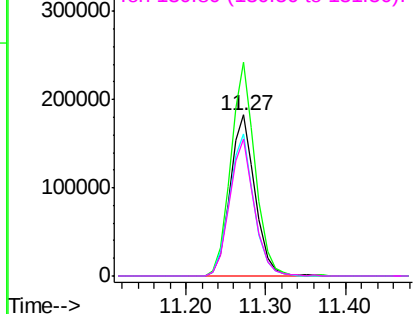
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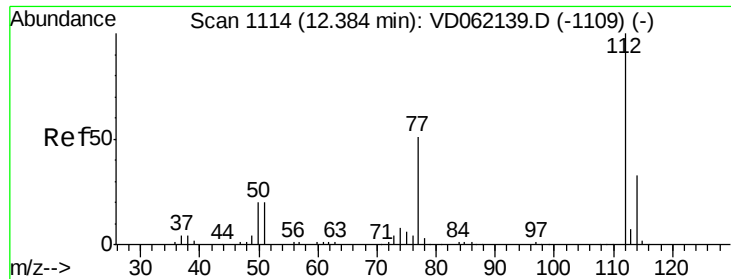


#64
Tetrachloroethene
Concen: 49.426 ug/l
RT: 11.27 min Scan# 1001
Delta R.T. 0.04 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion:164 Resp: 397680
Ion Ratio Lower Upper
164 100
166 132.7 101.5 152.3
129 88.2 74.6 112.0
131 85.4 72.6 108.8

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V



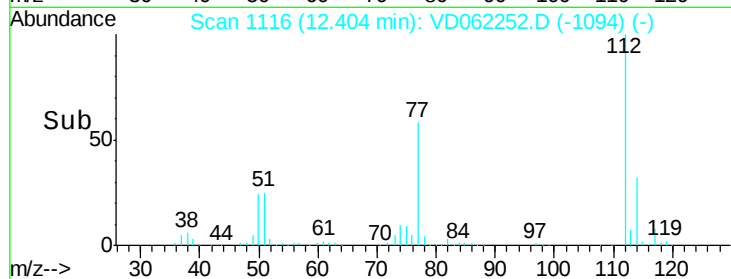
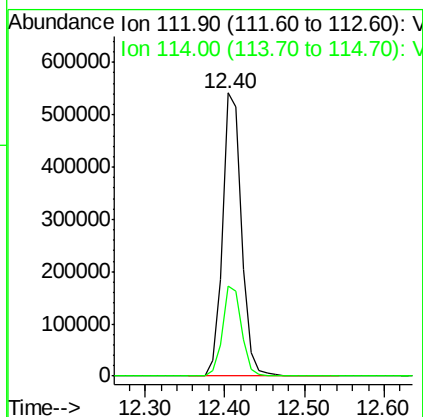
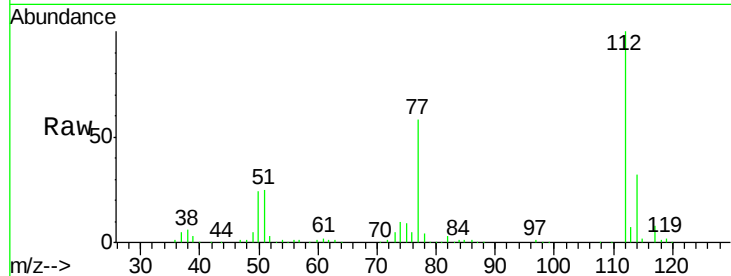


#65
Chlorobenzene
Concen: 47.686 ug/l
RT: 12.40 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

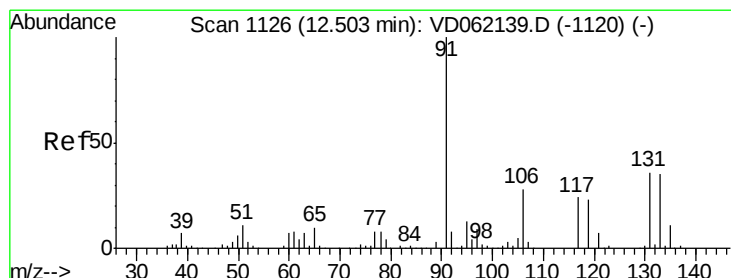
Tot Ion:112 Resp: 913878
Ion Ratio Lower Upper
112 100
114 31.9 25.8 38.8

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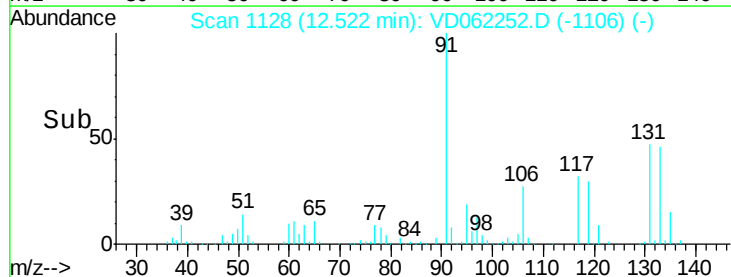
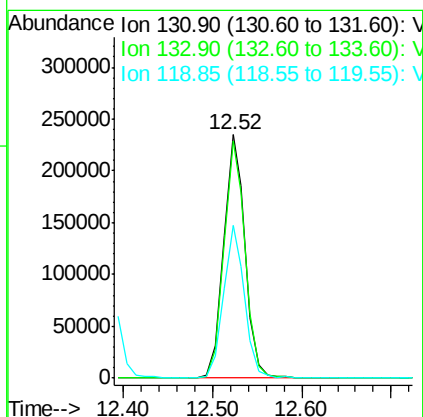
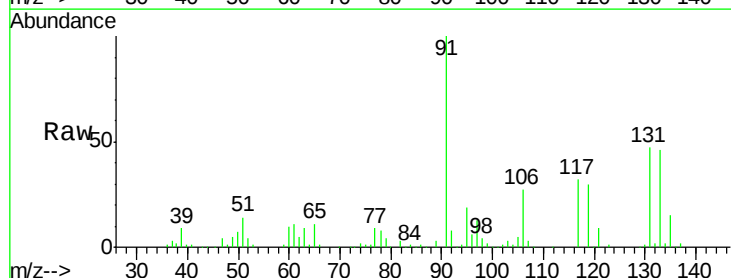
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#66
1,1,1,2-Tetrachloroethane
Concen: 47.491 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion:131 Resp: 396108
Ion Ratio Lower Upper
131 100
133 97.4 48.6 145.8
119 62.6 34.7 104.1



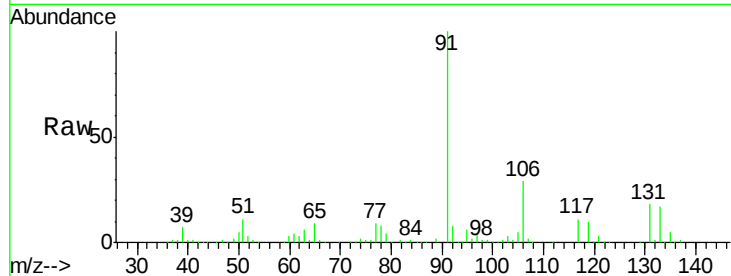


#67
Ethyl Benzene
Concen: 48.690 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

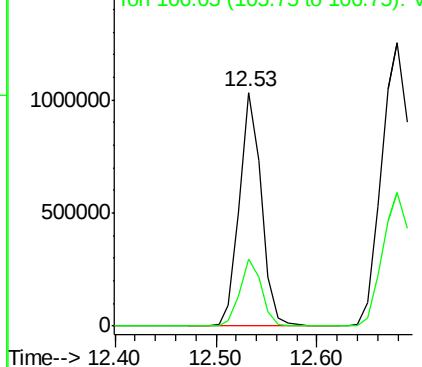
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1562185
Ion Ratio Lower Upper
91 100
106 28.5 24.7 37.1

Manual Integrations
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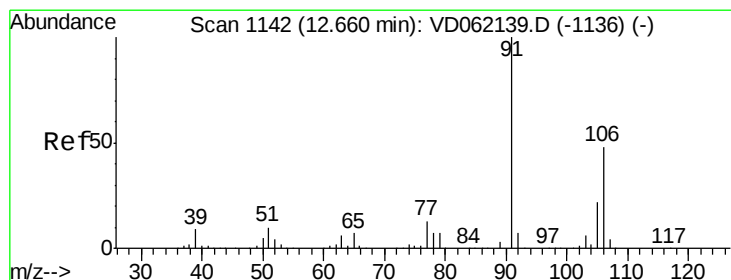
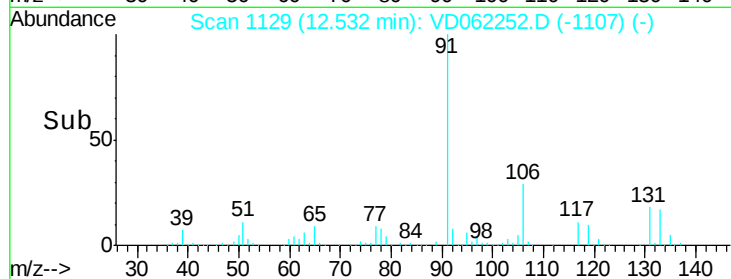


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V



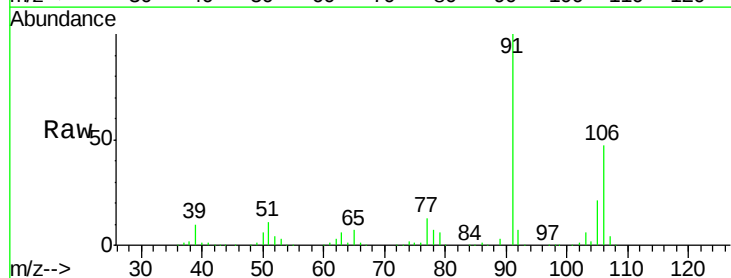
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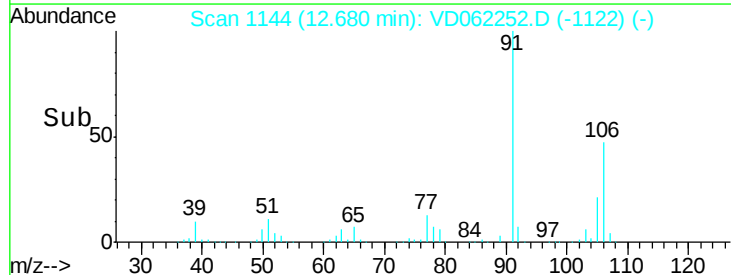
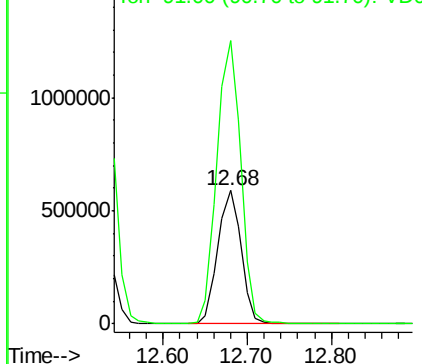


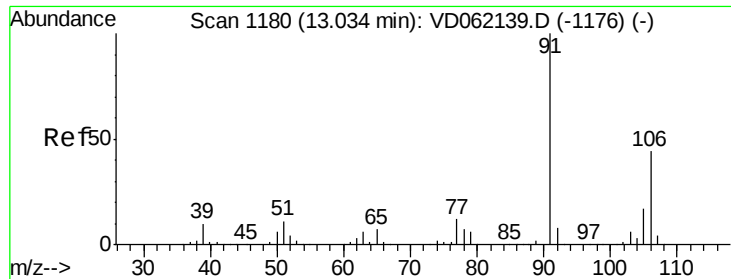
#68
m/p-Xylenes
Concen: 97.506 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion: 106 Resp: 1138196
Ion Ratio Lower Upper
106 100
91 212.5 164.0 246.0



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



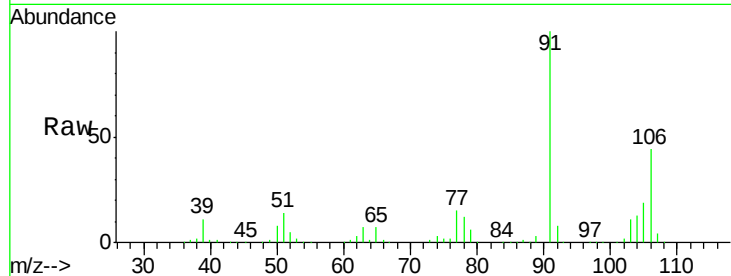


#69
o-Xylene
Concen: 45.871 ug/l
RT: 13.06 min Scan# 1183
Delta R.T. 0.03 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

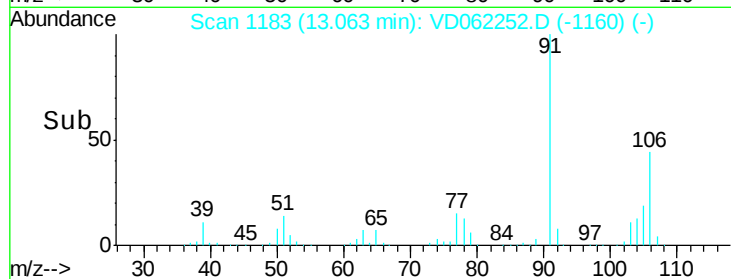
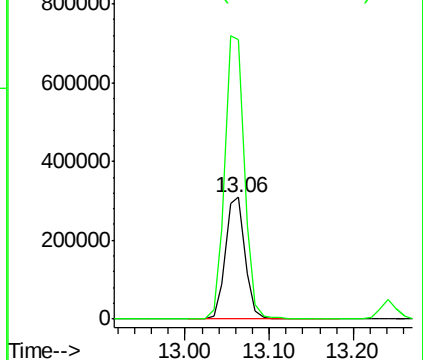
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 497812
Ion Ratio Lower Upper
106 100
91 229.2 106.7 319.9

Manual Integrations
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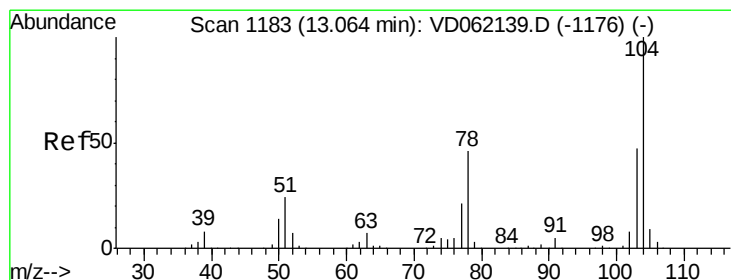


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V



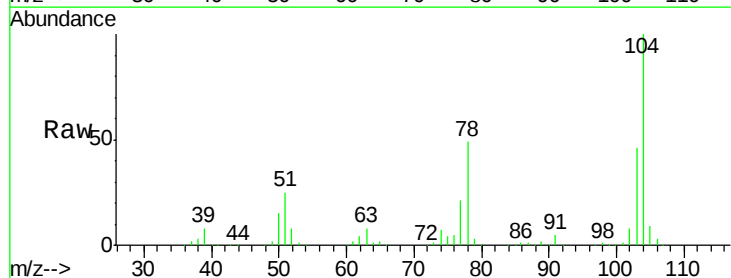
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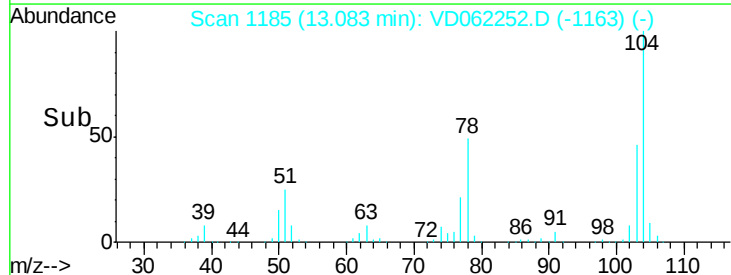
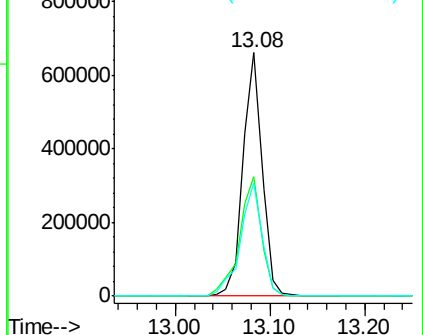


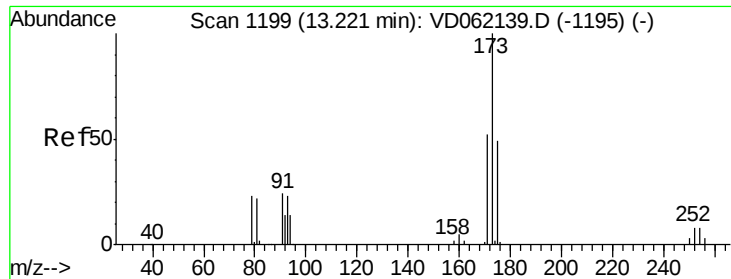
#70
Styrene
Concen: 50.386 ug/l
RT: 13.08 min Scan# 1185
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion:104 Resp: 926297
Ion Ratio Lower Upper
104 100
78 48.8 35.4 53.2
103 46.3 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: 50.379 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 292345

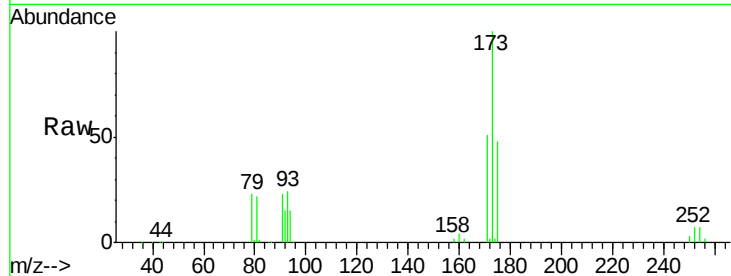
Ion Ratio Lower Upper

173 100

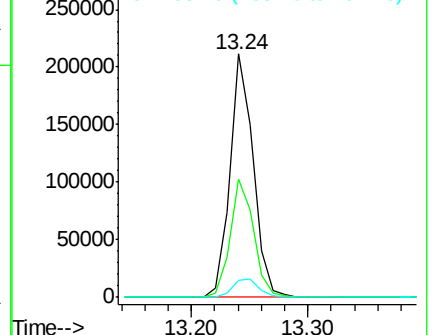
175 48.4 24.4 73.4

254 7.2 5.4 8.2

Manual Integrations
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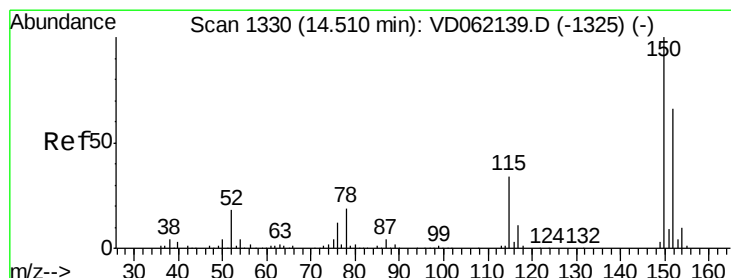
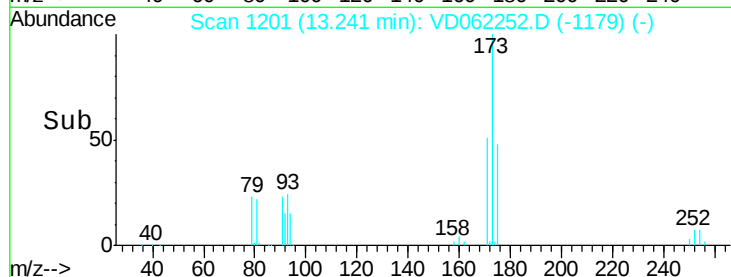


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

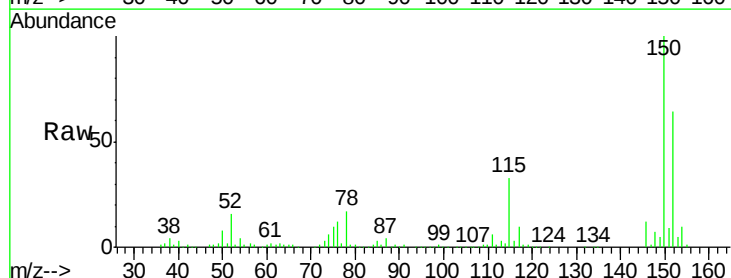
Tgt Ion:152 Resp: 526185

Ion Ratio Lower Upper

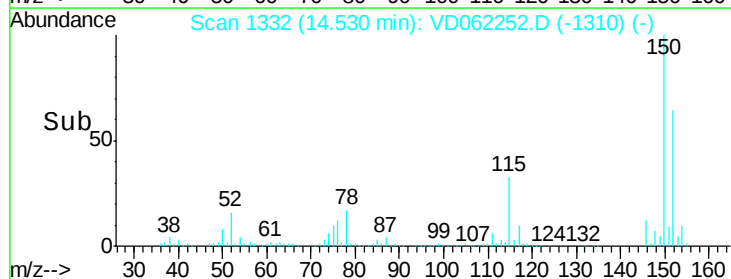
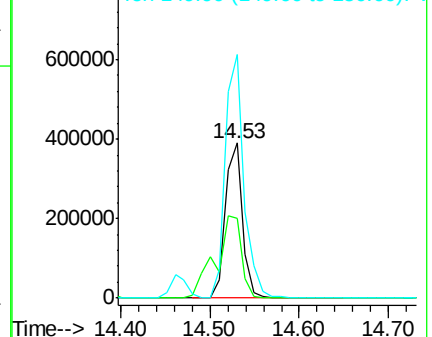
152 100

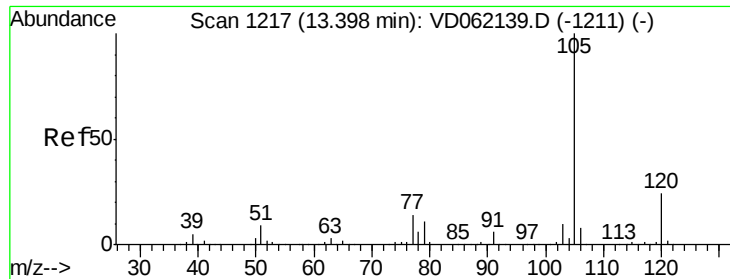
115 51.7 30.9 92.7

150 157.2 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: 54.433 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

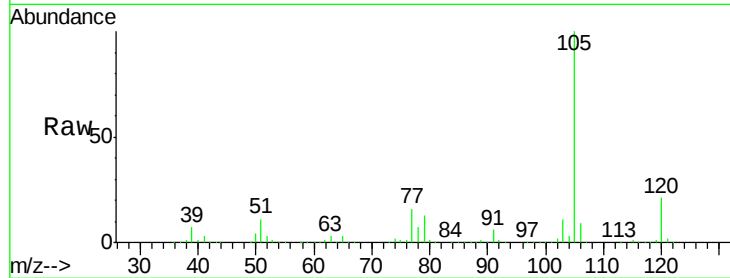
Tot Ion:105 Resp: 1716869

Ion Ratio Lower Upper

105 100

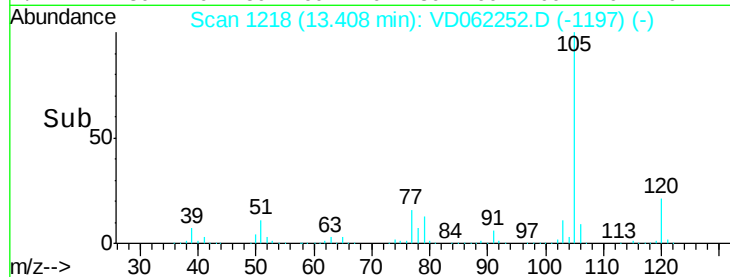
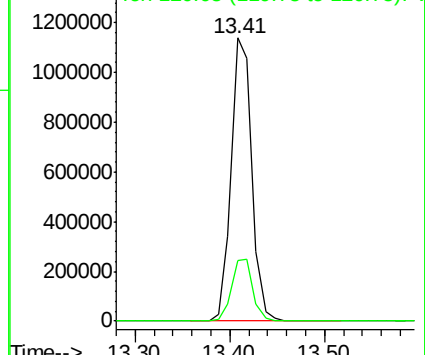
120 21.3 12.0 36.1

Manual Integrations
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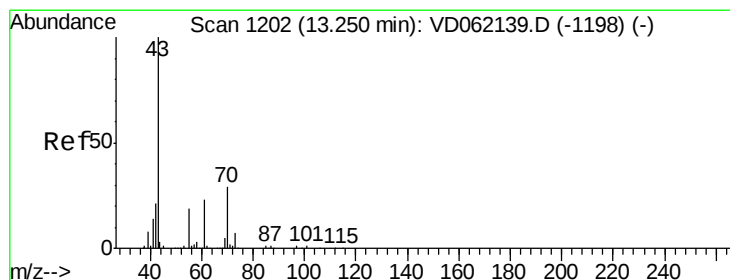
Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



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#74

N-ethyl acetate

Concen: 45.878 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tgt Ion: 43 Resp: 379389

Ion Ratio Lower Upper

43 100

70 26.9 24.2 36.4

55 17.8 16.0 24.0

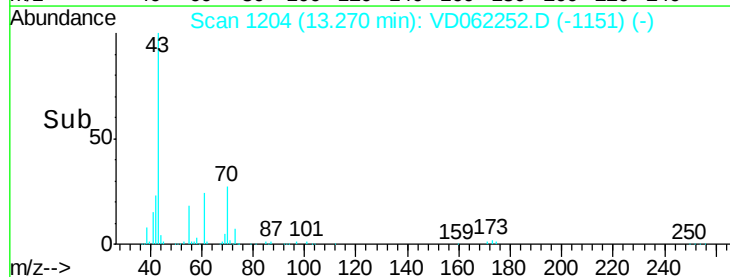
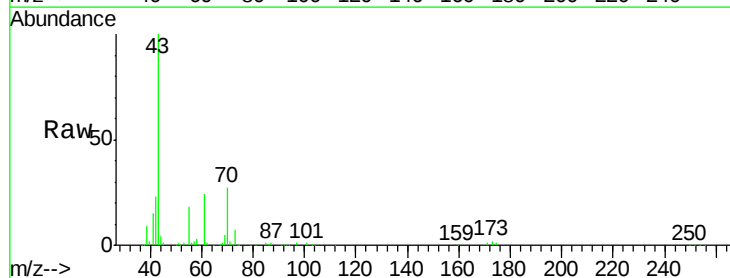
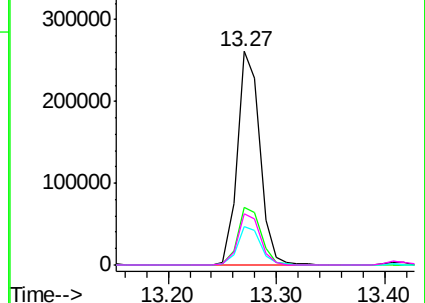
61 23.8 21.6 32.4

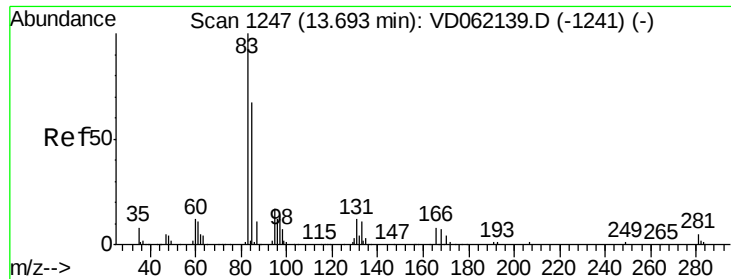
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 50.263 ug/l

RT: 13.71 min Scan# 1249

Delta R.T. 0.02 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

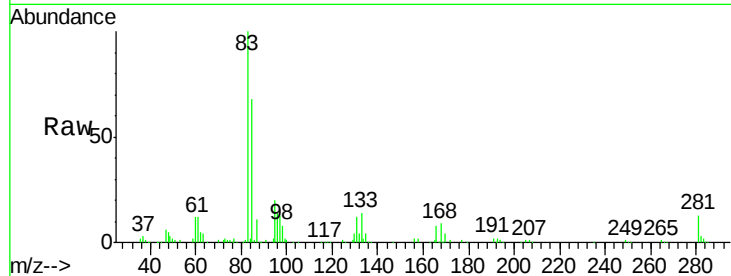
MSVOA_D

ClientSampleId :

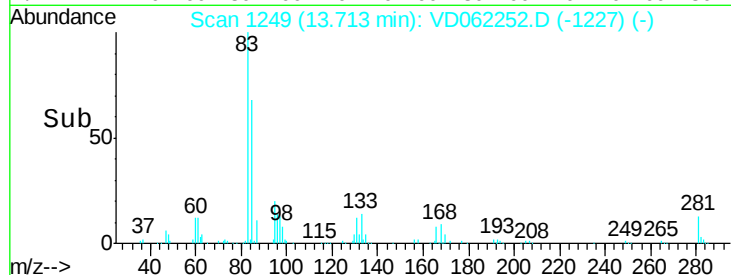
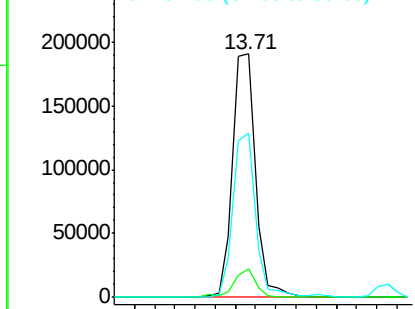
VSTDCCC050

Tot Ion:	83	Resp:	300127
Ion Ratio	Lower	Upper	
83	100		
131	11.6	5.0	14.9
85	67.7	32.6	97.7

Manual Integrations
APPROVED

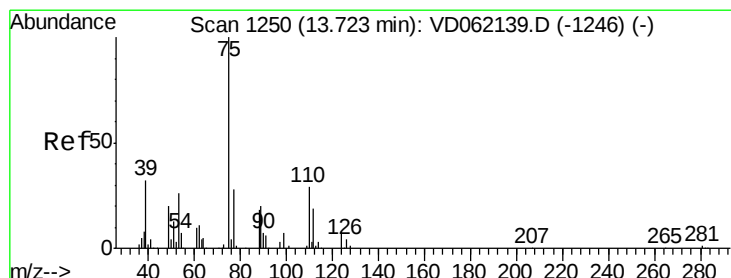


Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



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#76

1,2,3-Trichloropropane

Concen: 51.167 ug/l

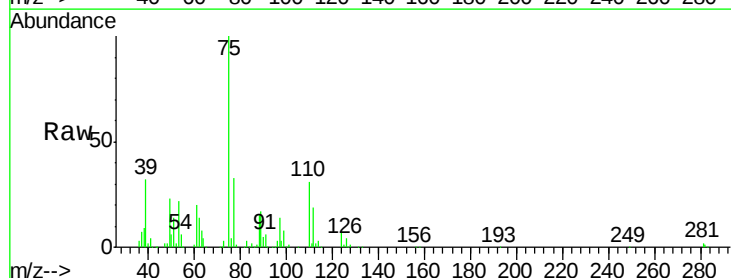
RT: 13.74 min Scan# 1252

Delta R.T. 0.02 min

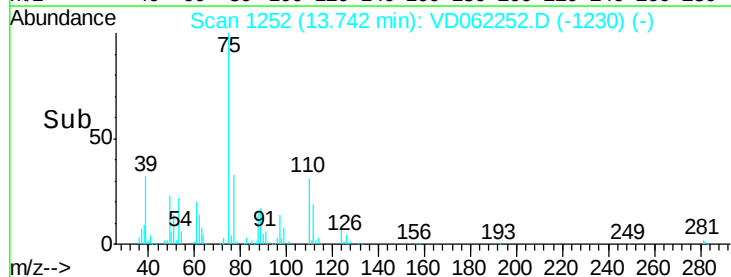
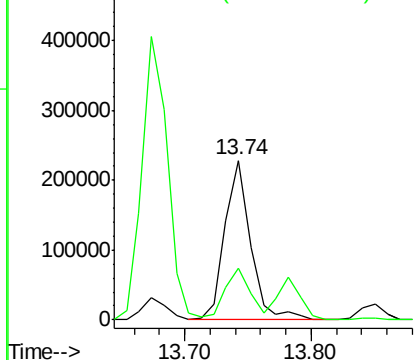
Lab File: VD062252.D

Acq: 12 May 2019 11:51

Tgt Ion:	75	Resp:	319964
Ion Ratio	Lower	Upper	
75	100		
77	32.6	16.4	49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC



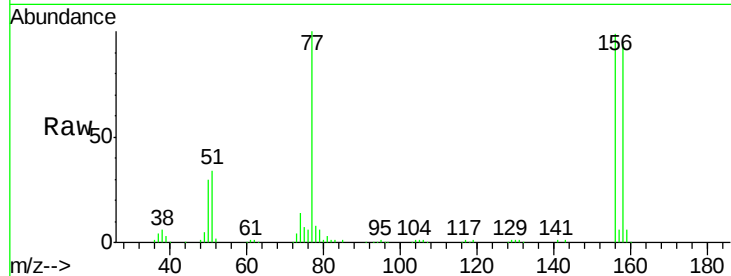


#77
Bromobenzene
Concen: 51.713 ug/l
RT: 13.68 min Scan# 1246
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

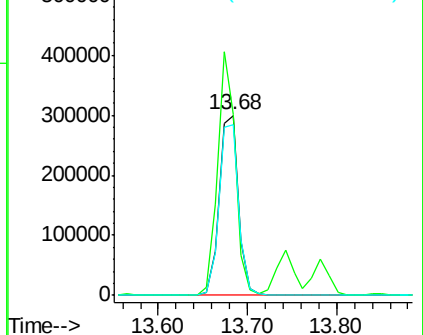
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	100.6	53.1	159.4
158	94.9	49.4	148.0

Manual Integrations
APPROVED

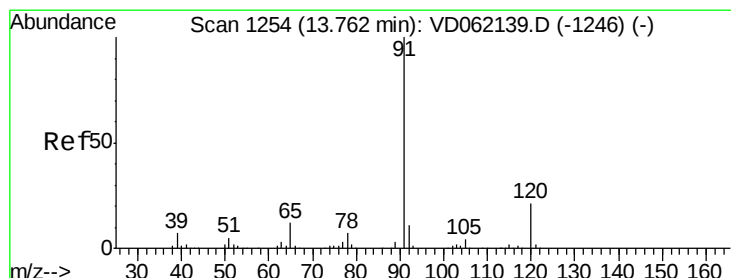
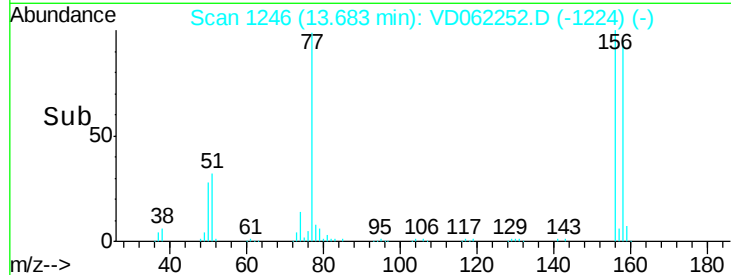


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V



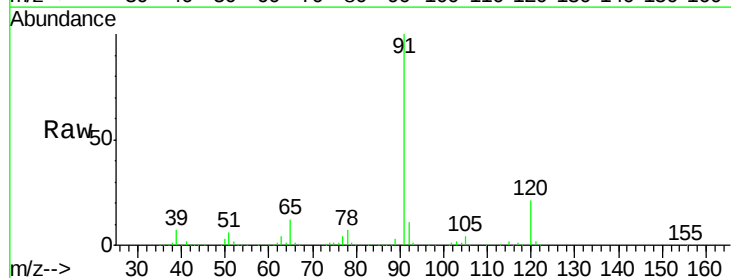
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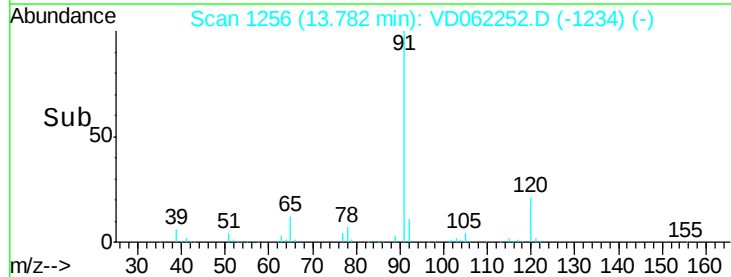
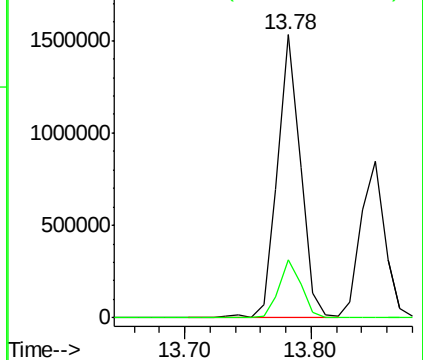


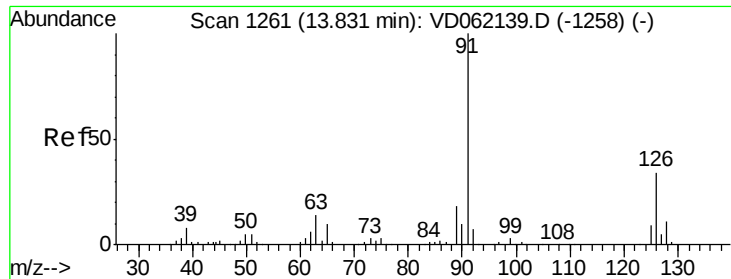
#78
n-propylbenzene
Concen: 51.861 ug/l
RT: 13.78 min Scan# 1256
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.6	11.1	33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 51.299 ug/l

RT: 13.85 min Scan# 1263

Delta R.T. 0.02 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

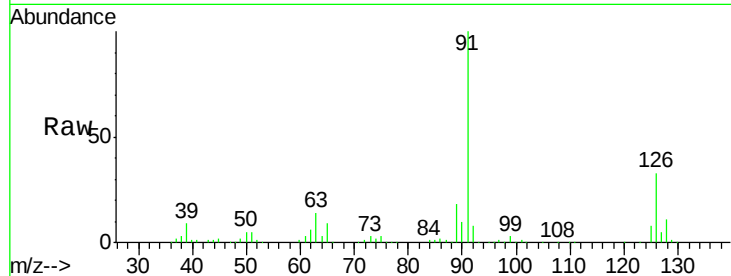
Tot Ion: 91 Resp: 1105421

Ion Ratio Lower Upper

91 100

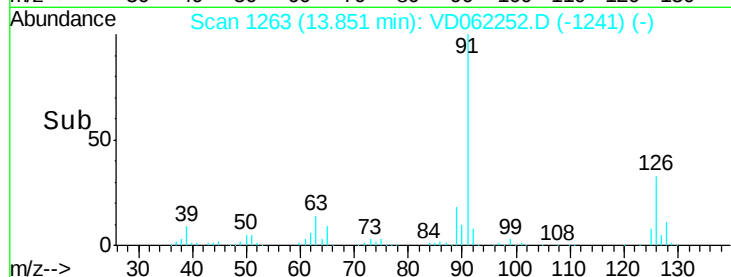
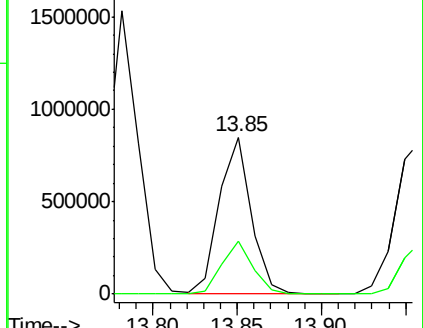
126 33.4 18.6 55.8

Manual Integrations
APPROVED



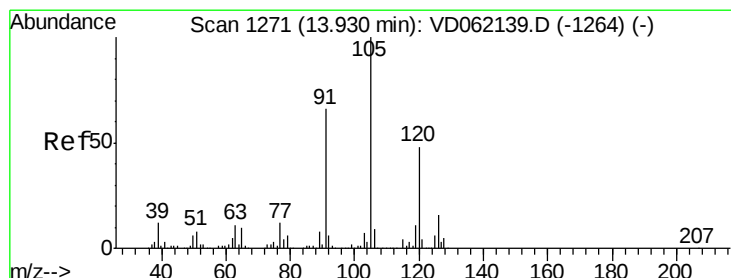
Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



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#80

1,3,5-Trimethylbenzene

Concen: 51.230 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD062252.D

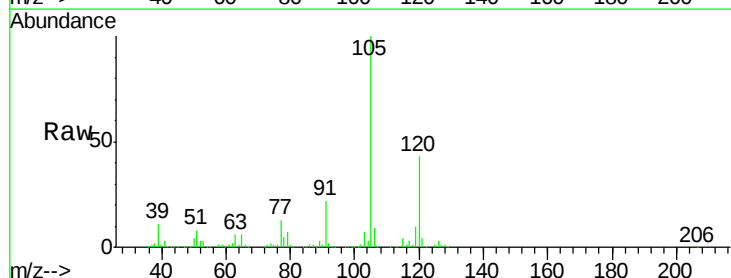
Acq: 12 May 2019 11:51

Tgt Ion: 105 Resp: 1360680

Ion Ratio Lower Upper

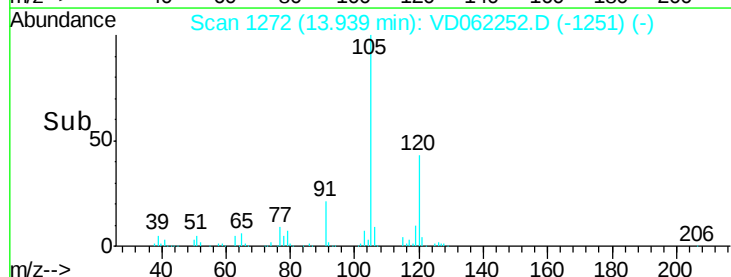
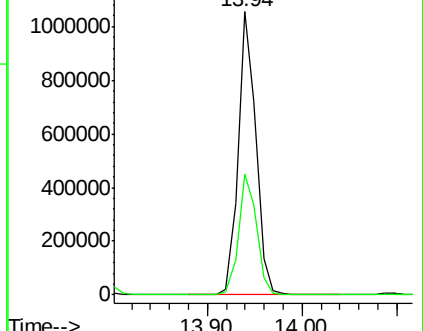
105 100

120 42.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



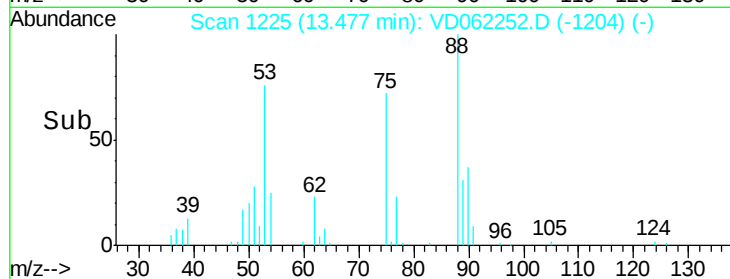
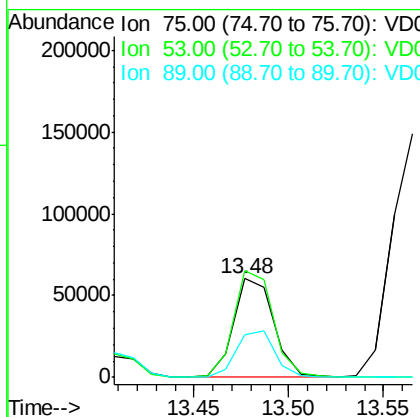
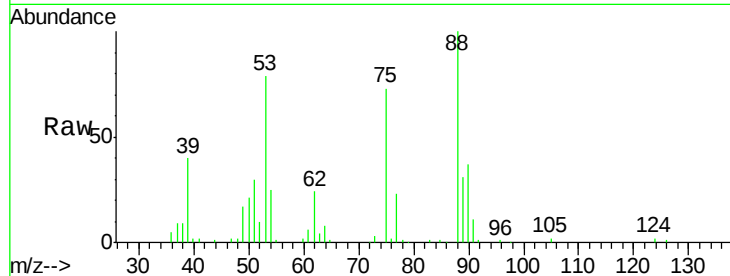


#81
trans-1,4-Dichloro-2-butene
Concen: 50.121 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. 0.01 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

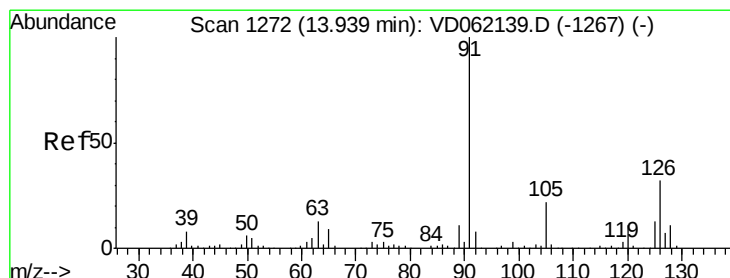
Tot Ion	Ratio	Lower	Upper
75	100		
53	108.4	65.8	98.8#
89	42.7	35.0	52.6

Manual Integrations
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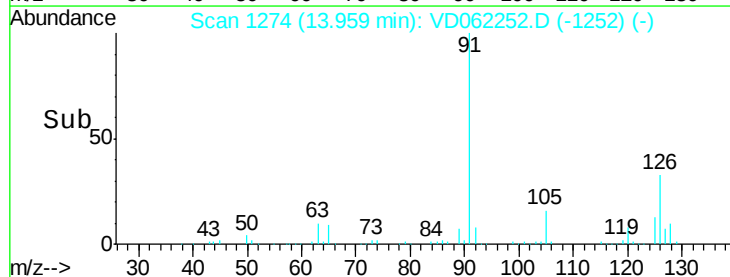
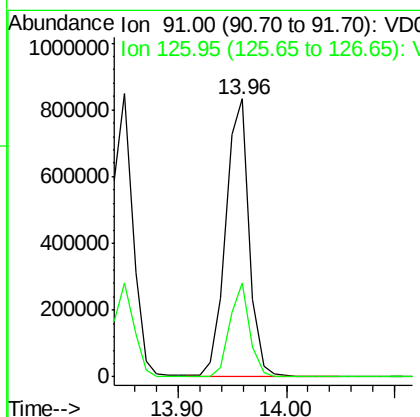
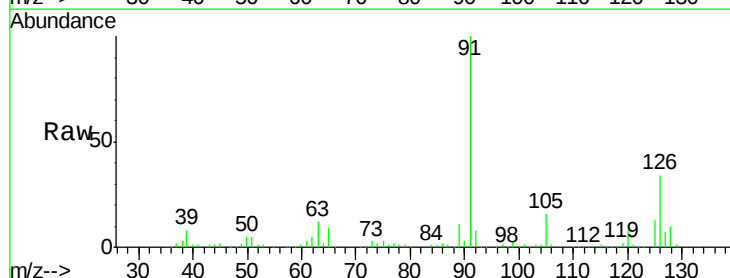
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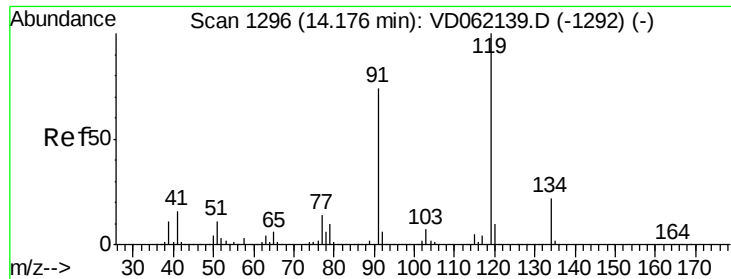
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#82
4-Chlorotoluene
Concen: 49.189 ug/l
RT: 13.96 min Scan# 1274
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.7	19.1	57.5



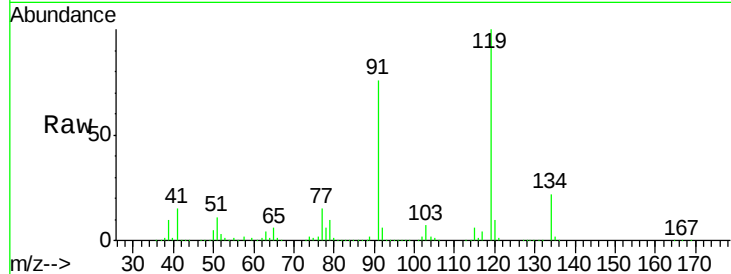


#83
tert-Butylbenzene
Concen: 50.760 ug/l
RT: 14.20 min Scan# 1298
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

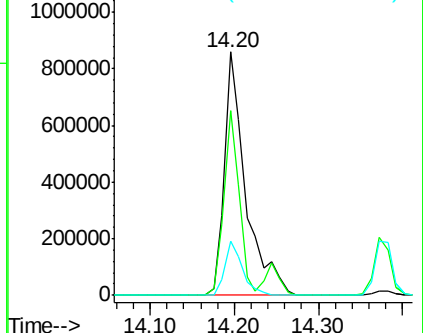
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	76.1	34.2	102.6
134	22.1	12.0	36.0

Manual Integrations
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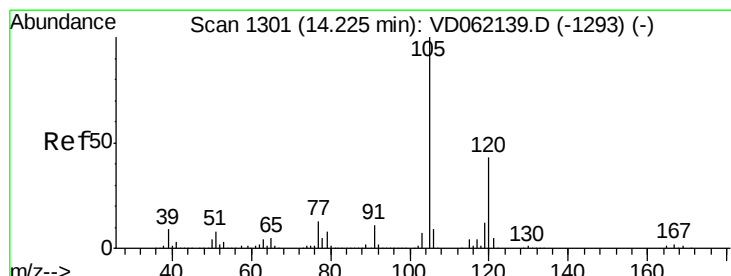
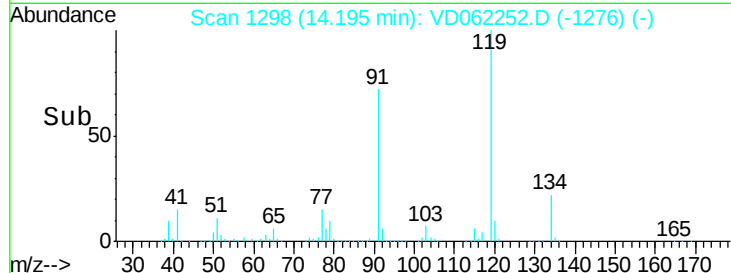


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): VD
Ion 134.00 (133.70 to 134.70): V



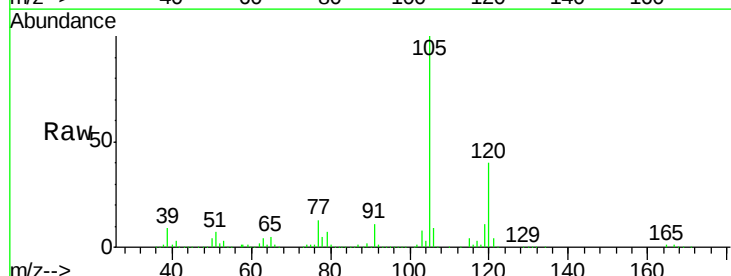
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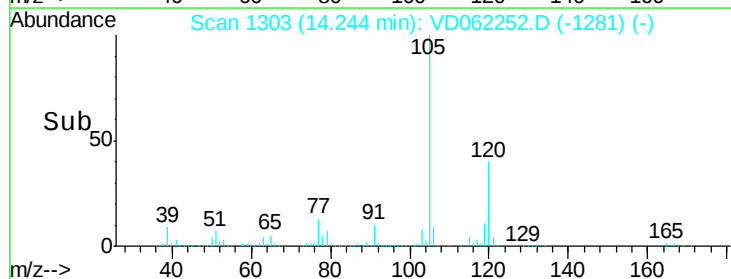
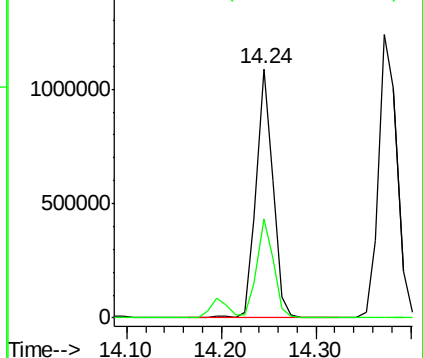


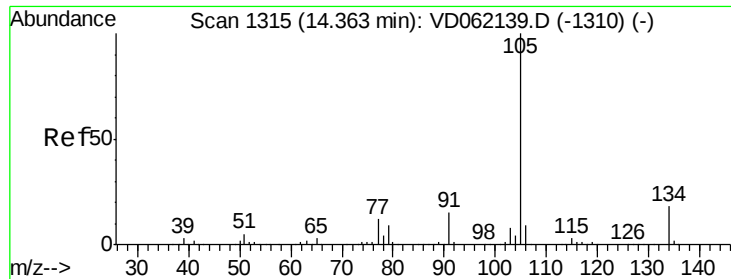
#84
1,2,4-Trimethylbenzene
Concen: 50.477 ug/l
RT: 14.24 min Scan# 1303
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	39.9	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: 51.104 ug/l

RT: 14.37 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

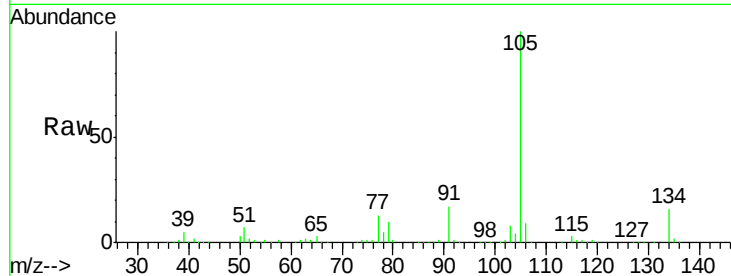
Tot Ion:105 Resp: 1672710

Ion Ratio Lower Upper

105 100

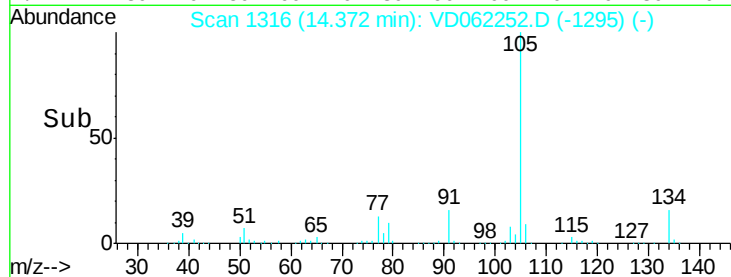
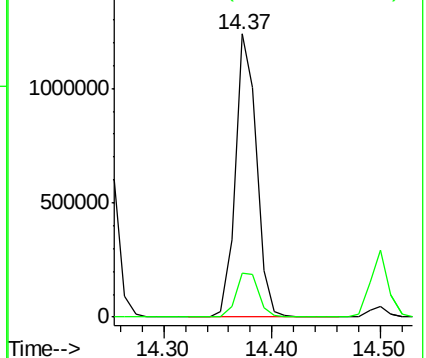
134 15.5 8.9 26.7

Manual Integrations
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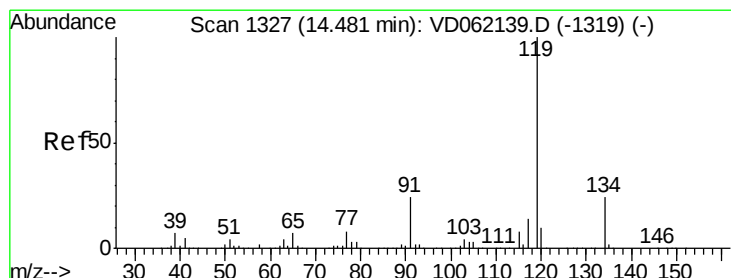
Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



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#86

p-Isopropyltoluene

Concen: 51.411 ug/l

RT: 14.50 min Scan# 1329

Delta R.T. 0.02 min

Lab File: VD062252.D

Acq: 12 May 2019 11:51

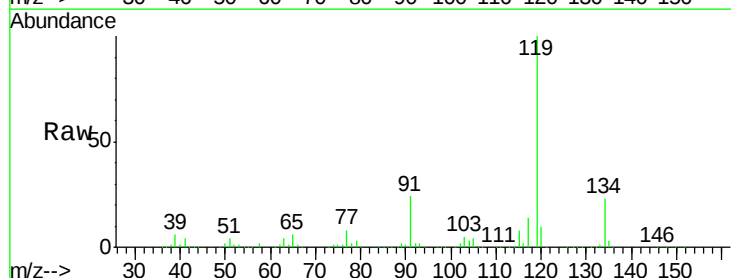
Tgt Ion:119 Resp: 1503450

Ion Ratio Lower Upper

119 100

134 23.0 12.8 38.3

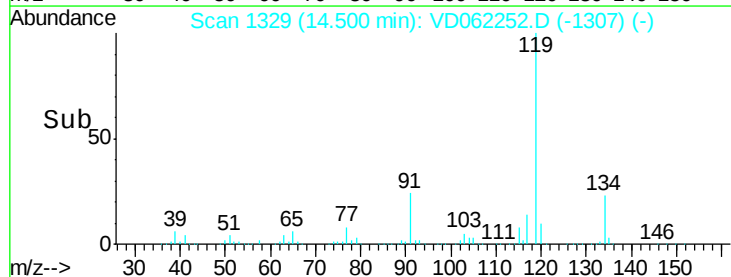
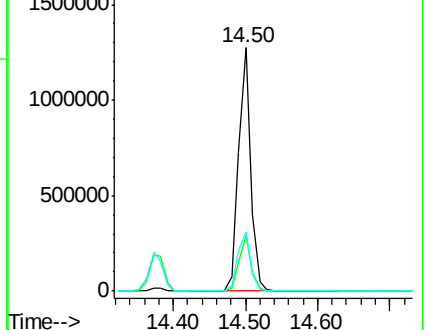
91 24.3 10.7 32.1

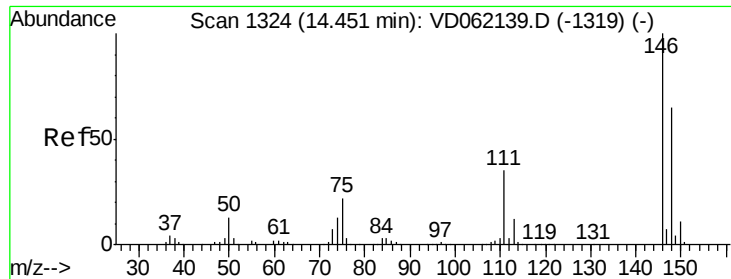


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V



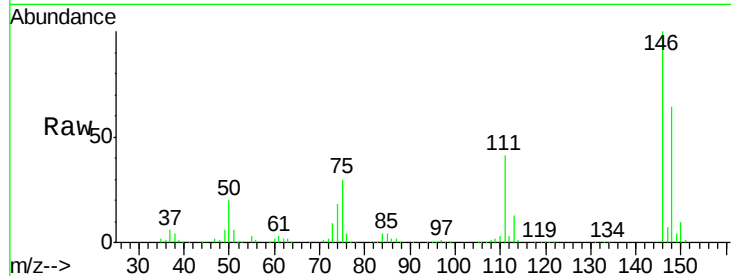


#87
 1,3-Dichlorobenzene
 Concen: 47.743 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

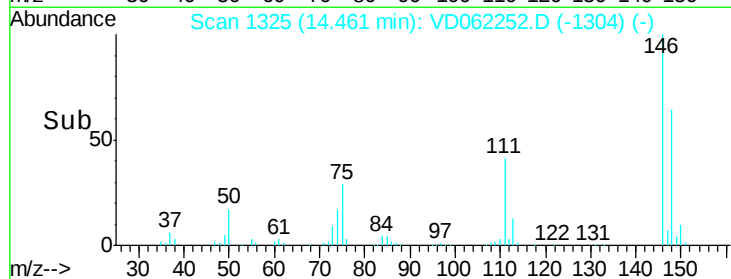
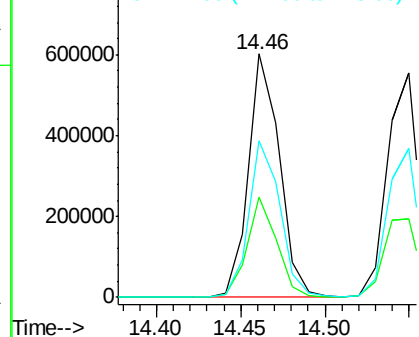
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.0	60.0
148	64.5	31.8	95.4

Manual Integrations
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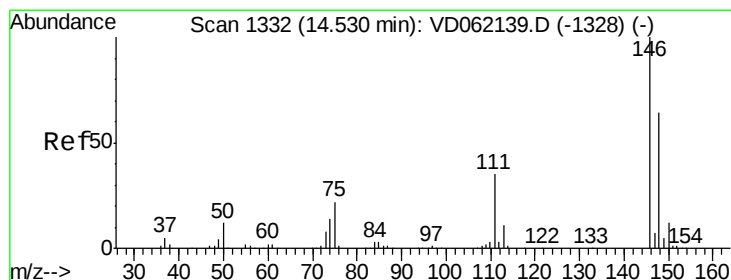


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



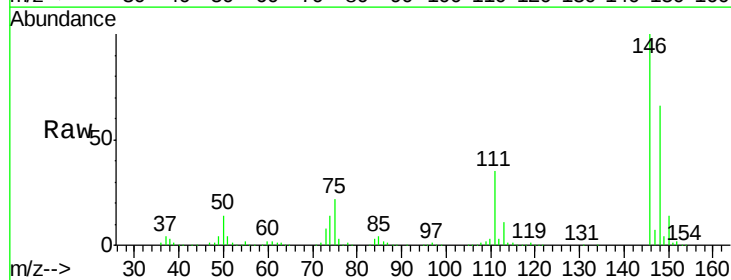
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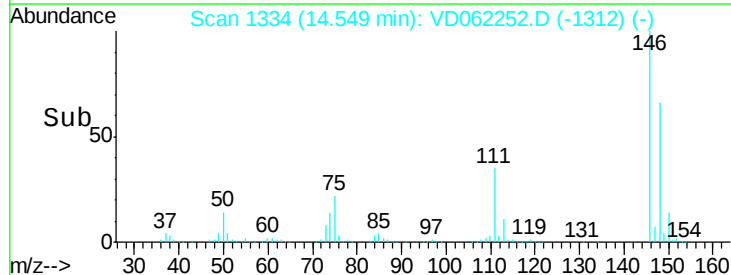
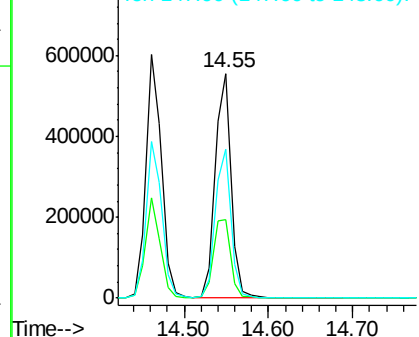


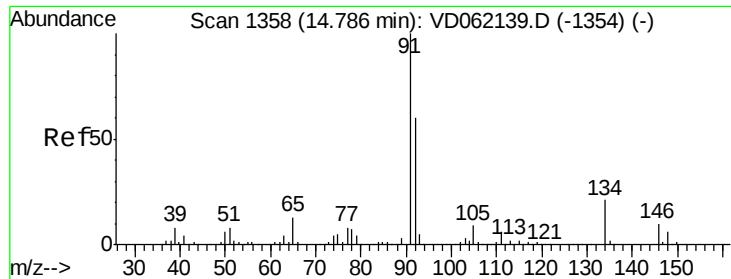
#88
 1,4-Dichlorobenzene
 Concen: 45.886 ug/l
 RT: 14.55 min Scan# 1334
 Delta R.T. 0.02 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.9	20.2	60.5
148	66.0	32.0	96.2



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V



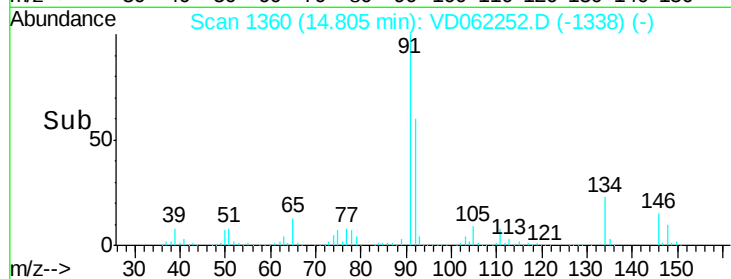
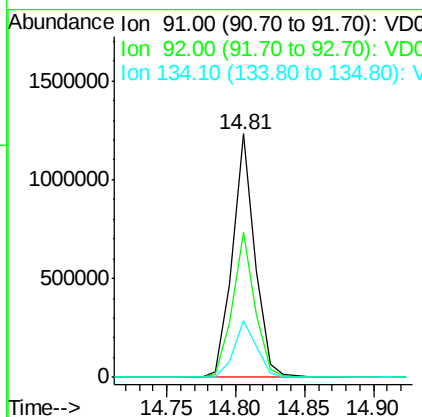
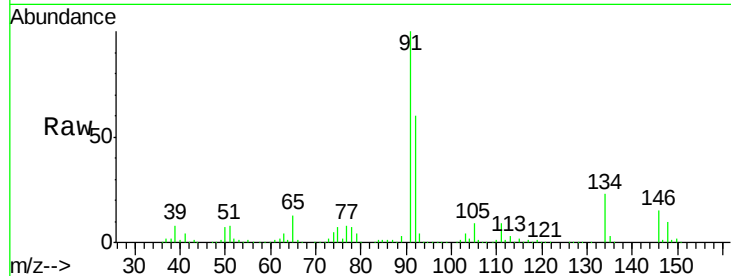


#89
n-Butylbenzene
Concen: 52.869 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

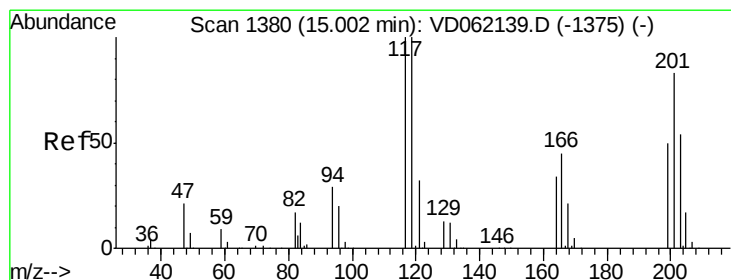
Tot Ion: 91 Resp: 1387740
Ion Ratio Lower Upper
91 100
92 59.8 30.3 91.0
134 23.3 14.5 43.6

Manual Integrations
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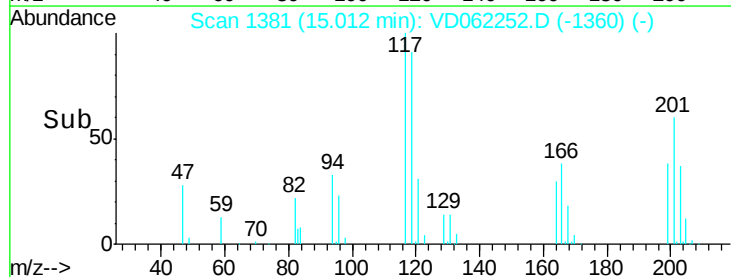
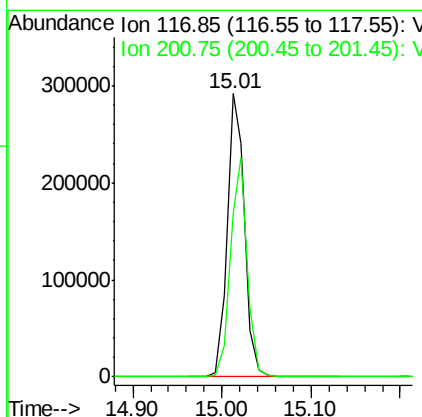
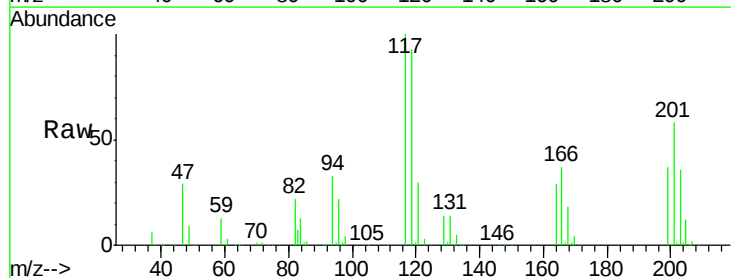
MMDadoda

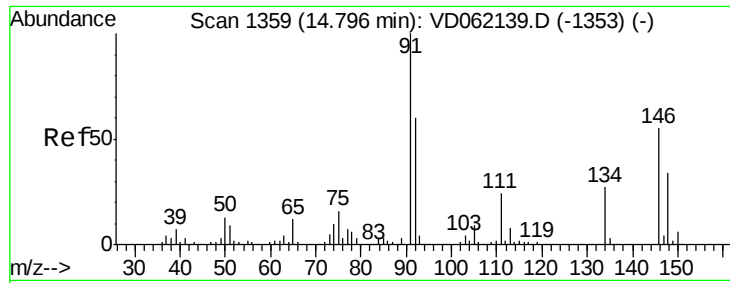
5/13/2019 11:55:54 AM



#90
Hexachloroethane
Concen: 50.615 ug/l
RT: 15.01 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion: 117 Resp: 402527
Ion Ratio Lower Upper
117 100
201 58.2 30.2 90.6



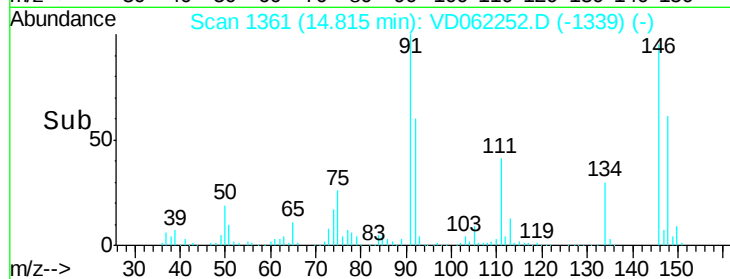
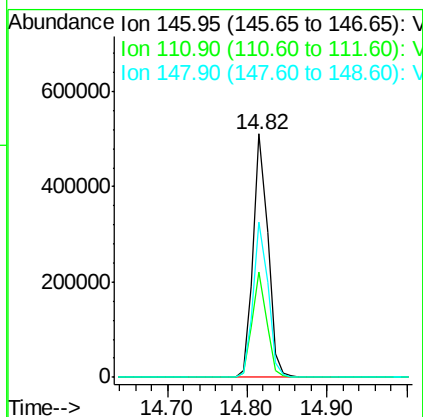
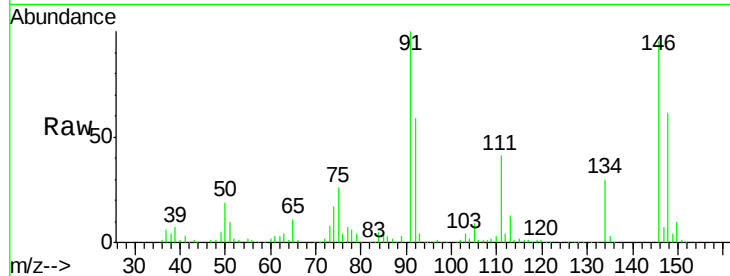


#91
 1,2-Dichlorobenzene
 Concen: 48.240 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

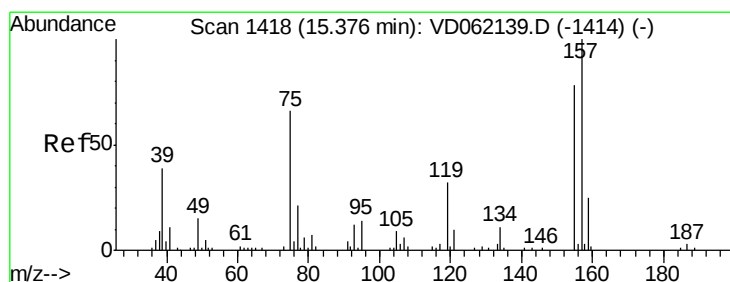
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.5	20.0	59.9
148	63.9	32.3	96.8

Manual Integrations
 APPROVED



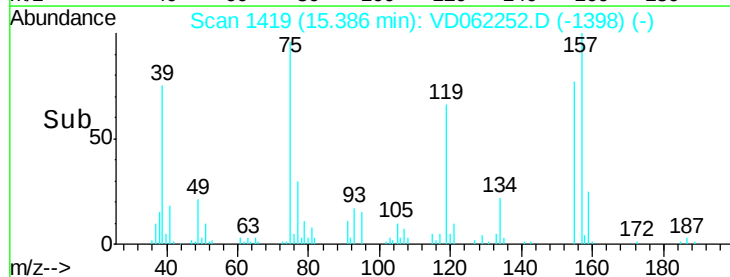
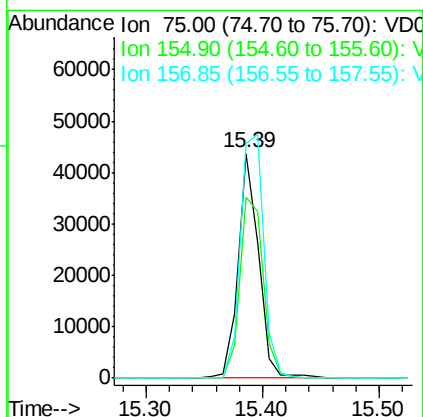
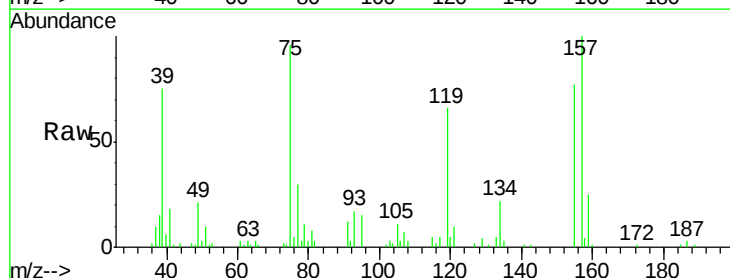
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 54.042 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.4	55.3	165.8
157	104.4	67.8	203.2



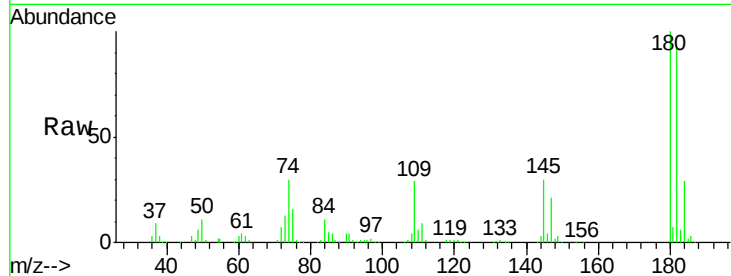


#93
 1,2,4-Trichlorobenzene
 Concen: 57.498 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

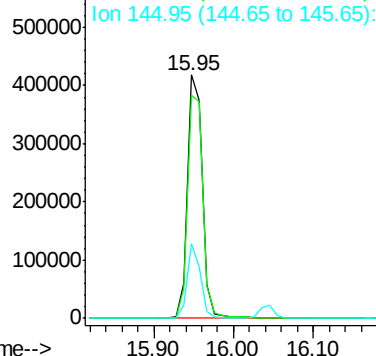
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	91.6	49.3	147.8	
145	30.5	16.2	48.6	

Manual Integrations
 APPROVED

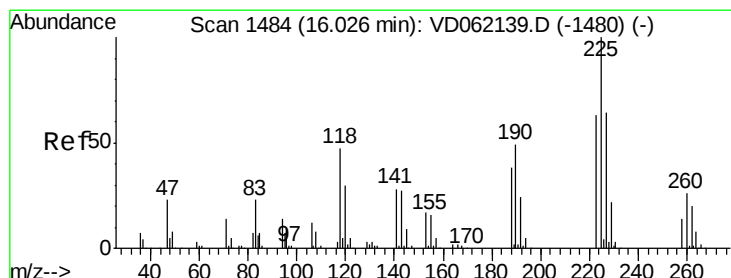
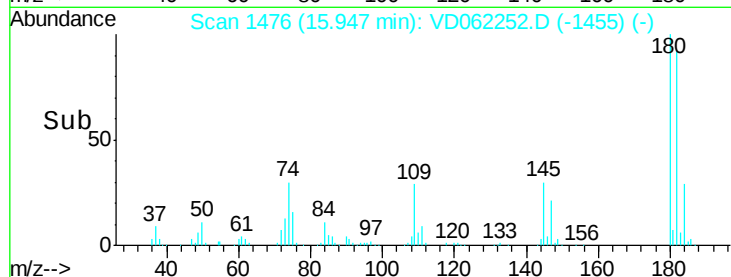


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



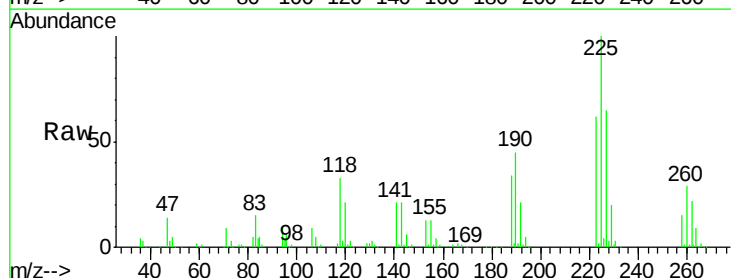
MMDadoda

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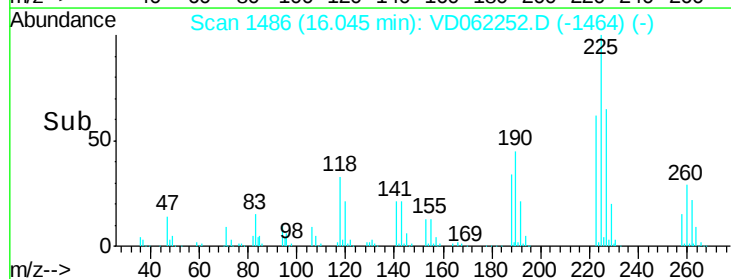
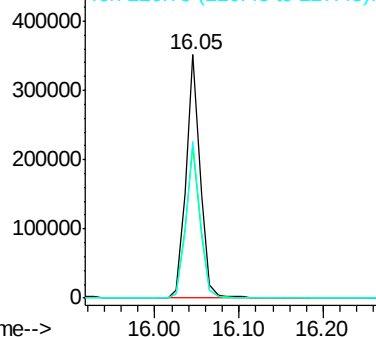


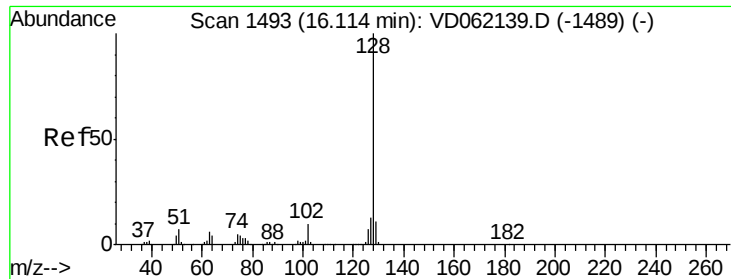
#94
 Hexachlorobutadiene
 Concen: 57.221 ug/l
 RT: 16.05 min Scan# 1486
 Delta R.T. 0.02 min
 Lab File: VD062252.D
 Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.3	30.6	92.0	
227	64.5	32.0	96.2	



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



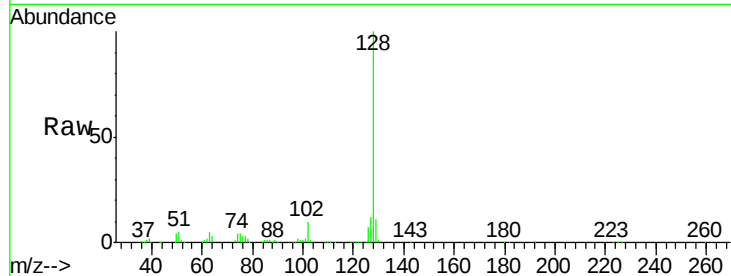


#95
Naphthalene
Concen: 54.272 ug/l
RT: 16.13 min Scan# 1495
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

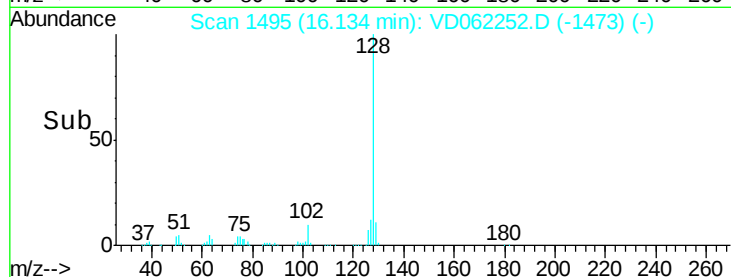
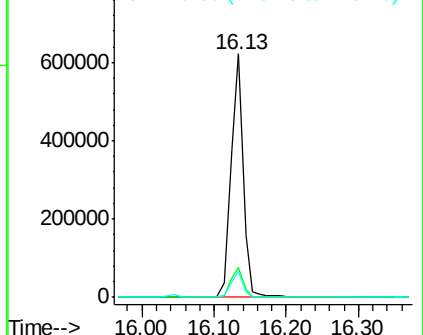
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.8	14.8
129	10.6	8.8	13.2

Manual Integrations
APPROVED

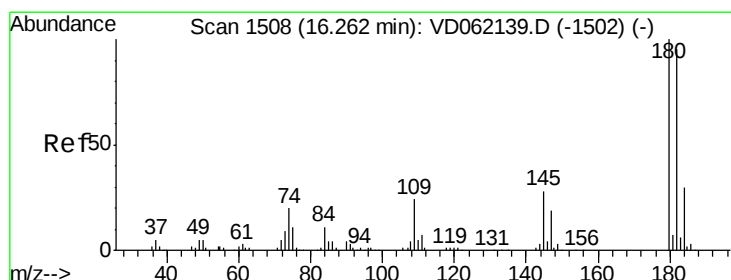


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



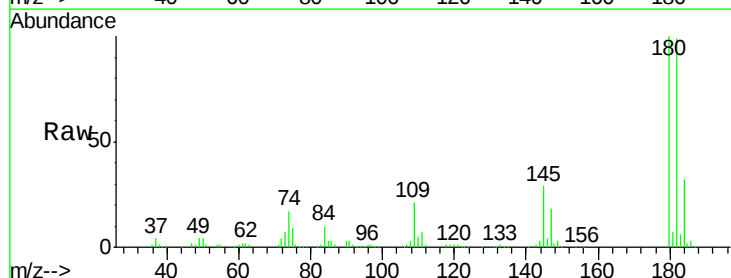
MMDadoda

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#96
1,2,3-Trichlorobenzene
Concen: 61.010 ug/l
RT: 16.28 min Scan# 1510
Delta R.T. 0.02 min
Lab File: VD062252.D
Acq: 12 May 2019 11:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.8	47.0	141.0
145	28.7	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

