

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051719\
 Data File : VD062432.D
 Acq On : 17 May 2019 11:28
 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

MMDadoda
 5/22/2019 9:32:52 AM

Quant Time: May 18 01:15:25 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	7.05	168	690169	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.23	114	951596	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	732213	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	385174	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.47	65	292217	45.56	ug/l	0.04
Spiked Amount 50.000			Recovery	=	91.12%	
35) Dibromofluoromethane	6.93	113	358939	45.46	ug/l	0.04
Spiked Amount 50.000			Recovery	=	90.92%	
50) Toluene-d8	10.42	98	737161	38.72	ug/l	0.02
Spiked Amount 50.000			Recovery	=	77.44%	
62) 4-Bromofluorobenzene	13.56	95	339763	44.45	ug/l	0.01
Spiked Amount 50.000			Recovery	=	88.90%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.58	85	313029	47.422	ug/l	100
3) Chloromethane	1.75	50	186914	39.188	ug/l	100
4) Vinyl Chloride	1.86	62	222917	47.556	ug/l	98
5) Bromomethane	2.15	94	81895	74.561	ug/l	95
6) Chloroethane	2.26	64	110394	56.125	ug/l	92
7) Trichlorofluoromethane	2.54	101	557803	61.208	ug/l	98
8) Diethyl Ether	2.88	74	68690	39.082	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.16	101	345196	50.073	ug/l	96
10) Methyl Iodide	3.31	142	453987	43.573	ug/l	89
11) Tert butyl alcohol	4.08	59	86706	264.839	ug/l	96
12) 1,1-Dichloroethene	3.13	96	258785	49.176	ug/l	89
13) Acrolein	3.04	56	71379	210.792	ug/l	97
14) Allyl chloride	3.63	41	371415	48.541	ug/l #	78
15) Acrylonitrile	4.20	53	212925	247.434	ug/l	94
16) Acetone	3.22	43	380986	283.251	ug/l #	82
17) Carbon Disulfide	3.38	76	617520	40.792	ug/l	100
18) Methyl Acetate	3.65	43	121709	50.598	ug/l	97
19) Methyl tert-butyl Ether	4.24	73	589628	52.273	ug/l	96
20) Methylene Chloride	3.83	84	259130	46.141	ug/l	97
21) trans-1,2-Dichloroethene	4.23	96	294725	50.330	ug/l	89
22) Diisopropyl ether	5.13	45	845752	51.943	ug/l	94
23) Vinyl Acetate	5.07	43	2393725	278.641	ug/l	97
24) 1,1-Dichloroethane	5.00	63	492205	50.110	ug/l	96
25) 2-Butanone	6.08	43	412524	281.179	ug/l	97
26) 2,2-Dichloropropane	6.03	77	588527	60.150	ug/l	93
27) cis-1,2-Dichloroethene	6.05	96	332825	50.777	ug/l	95
28) Bromochloromethane	6.45	49	236026	61.075	ug/l	91
29) Tetrahydrofuran	6.47	42	171505	253.709	ug/l	96
30) Chloroform	6.68	83	648607	54.791	ug/l	97
31) Cyclohexane	6.96	56	328185	48.769	ug/l	96
32) 1,1,1-Trichloroethane	6.89	97	639059	57.115	ug/l	100
36) 1,1-Dichloropropene	7.16	75	430765	55.211	ug/l	95
37) Ethyl Acetate	6.19	43	168203	50.835	ug/l #	90
38) Carbon Tetrachloride	7.12	117	663997m	61.487	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	373093	49.909	ug/l	94
40) Benzene	7.47	78	839638	47.657	ug/l	99
41) Methacrylonitrile	6.45	41	226400	55.991	ug/l #	88
42) 1,2-Dichloroethane	7.59	62	438231	58.708	ug/l	93
43) Isopropyl Acetate	9.25	43	244281	52.056	ug/l	90
44) Trichloroethene	8.55	130	373410	55.620	ug/l	91
45) 1,2-Dichloropropane	8.95	63	216221	49.616	ug/l	98
46) Dibromomethane	9.07	93	189432	53.455	ug/l	94
47) Bromodichloromethane	9.39	83	492281	56.792	ug/l	98
48) Methyl methacrylate	9.13	41	159328	55.122	ug/l #	85
49) 1,4-Dioxane	9.10	88	33579	1076.709	ug/l	91
51) 4-Methyl-2-Pentanone	10.31	43	816719	270.755	ug/l	92
52) Toluene	10.52	92	535308	46.698	ug/l	96
53) t-1,3-Dichloropropene	10.92	75	436856	58.312	ug/l	97
54) cis-1,3-Dichloropropene	10.05	75	467153	57.159	ug/l #	86
55) 1,1,2-Trichloroethane	11.21	97	216422	53.359	ug/l	95
56) Ethyl methacrylate	11.05	69	230468	54.682	ug/l #	81
57) 1,3-Dichloropropane	11.42	76	314342	51.300	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.87	63	621985	270.167	ug/l	100
59) 2-Hexanone	11.54	43	632074	284.303	ug/l	91
60) Dibromochloromethane	11.70	129	392223	55.956	ug/l	98
61) 1,2-Dibromoethane	11.82	107	258680	52.459	ug/l	99
64) Tetrachloroethene	11.26	164	301704	52.694	ug/l	96
65) Chlorobenzene	12.41	112	677725	49.695	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.52	131	339773	57.246	ug/l	93
67) Ethyl Benzene	12.53	91	1207716	52.897	ug/l	95
68) m/p-Xylenes	12.68	106	899382	108.273	ug/l	90
69) o-Xylene	13.06	106	424682	54.992	ug/l	86
70) Styrene	13.08	104	682591	52.177	ug/l #	92
71) Bromoform	13.24	173	245286	59.400	ug/l #	96
73) Isopropylbenzene	13.41	105	1315604	56.981	ug/l	97
74) N-amyl acetate	13.27	43	321834	53.166	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.71	83	224147	51.281	ug/l	98
76) 1,2,3-Trichloropropane	13.74	75	248915	54.378	ug/l	98
77) Bromobenzene	13.68	156	337516	52.220	ug/l	90
78) n-propylbenzene	13.78	91	1560431	56.656	ug/l	97
79) 2-Chlorotoluene	13.84	91	899861	57.048	ug/l	87
80) 1,3,5-Trimethylbenzene	13.94	105	1082503	55.677	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.48	75	71859	55.608	ug/l #	77
82) 4-Chlorotoluene	13.95	91	1018750	54.884	ug/l	84
83) tert-Butylbenzene	14.20	119	1276879	58.430	ug/l	95
84) 1,2,4-Trimethylbenzene	14.25	105	1070876	54.887	ug/l	92
85) sec-Butylbenzene	14.37	105	1236840	51.621	ug/l	98
86) p-Isopropyltoluene	14.49	119	1259159	58.821	ug/l	90
87) 1,3-Dichlorobenzene	14.46	146	603617	51.124	ug/l	99
88) 1,4-Dichlorobenzene	14.54	146	611320	52.695	ug/l	99
89) n-Butylbenzene	14.81	91	1189273	61.896	ug/l	96
90) Hexachloroethane	15.01	117	326057	56.009	ug/l	87
91) 1,2-Dichlorobenzene	14.82	146	567799	58.393	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.39	75	39575	55.157	ug/l	95

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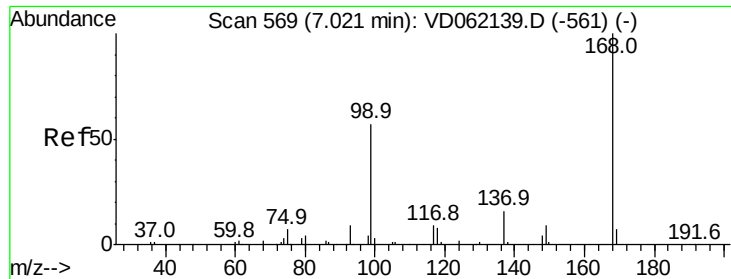
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	443735	62.696	ug/l	96
94) Hexachlorobutadiene	16.05	225	327832	62.278	ug/l	99
95) Naphthalene	16.13	128	632682	64.030	ug/l	100
96) 1,2,3-Trichlorobenzene	16.27	180	337721	75.893	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 690169

Ion Ratio Lower Upper

168 100

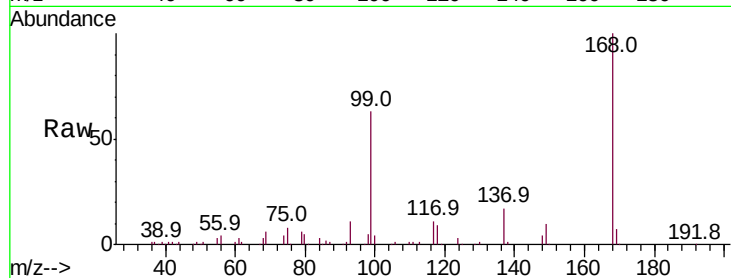
99 62.6 46.5 69.7

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

7.05

250000

200000

150000

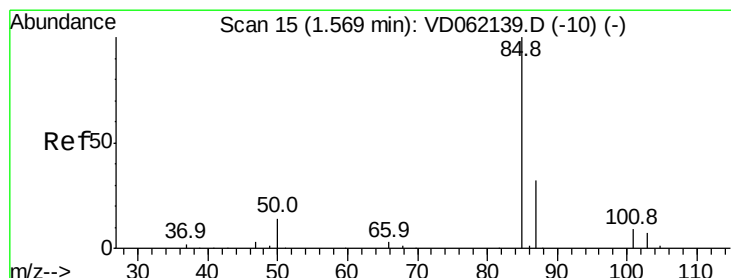
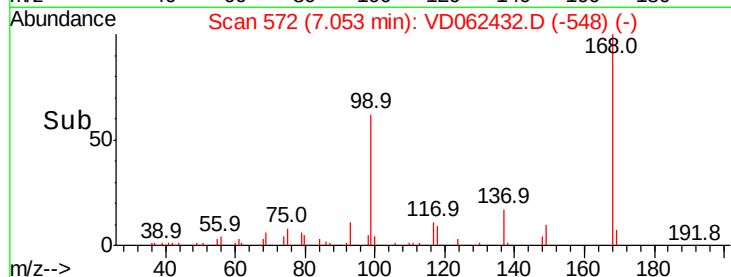
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 47.422 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062432.D

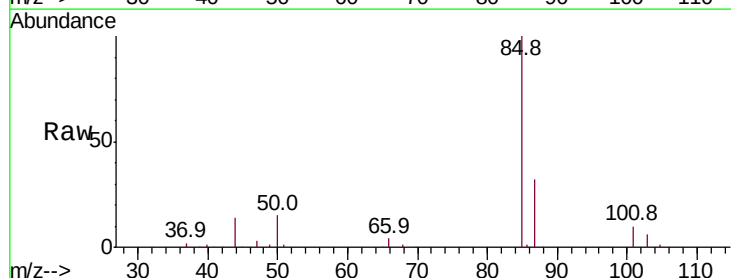
Acq: 17 May 2019 11:28

Tgt Ion: 85 Resp: 313029

Ion Ratio Lower Upper

85 100

87 32.2 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

150000

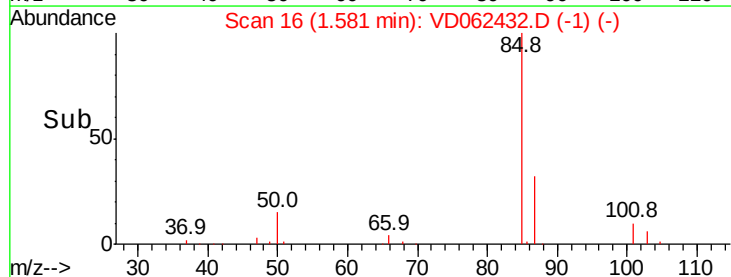
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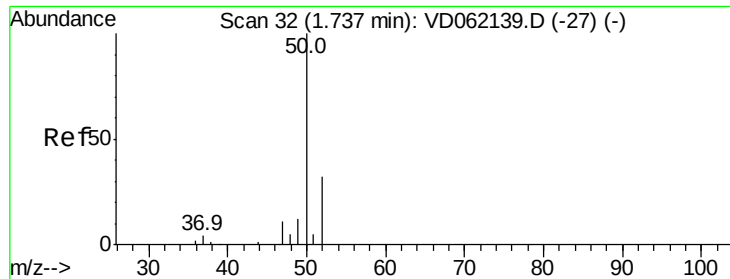
50000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 39.188 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 186914

Ion Ratio Lower Upper

50 100

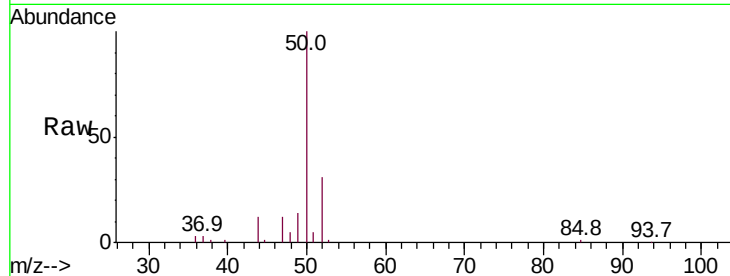
52 31.5 25.2 37.8

Manual Integrations

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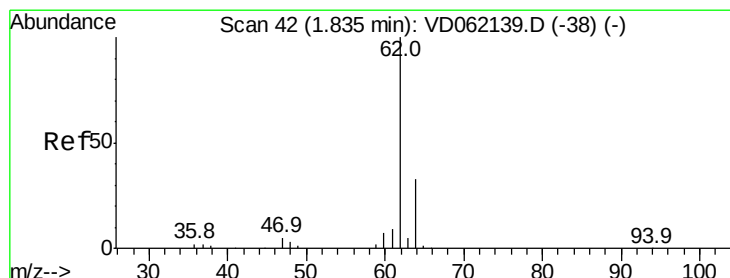
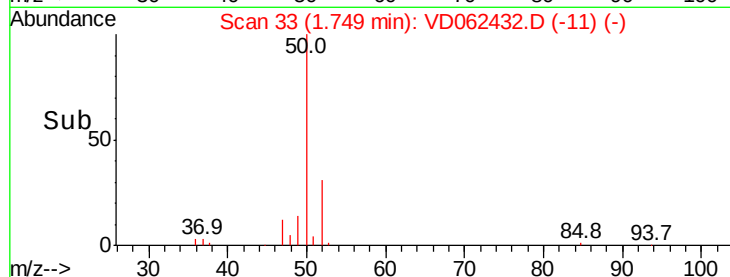
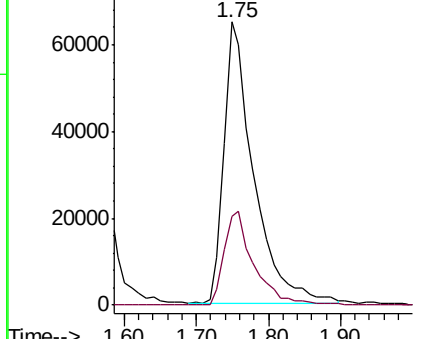
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Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 47.556 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.02 min

Lab File: VD062432.D

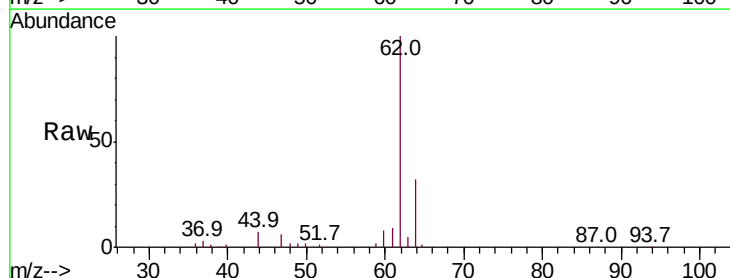
Acq: 17 May 2019 11:28

Tgt Ion: 62 Resp: 222917

Ion Ratio Lower Upper

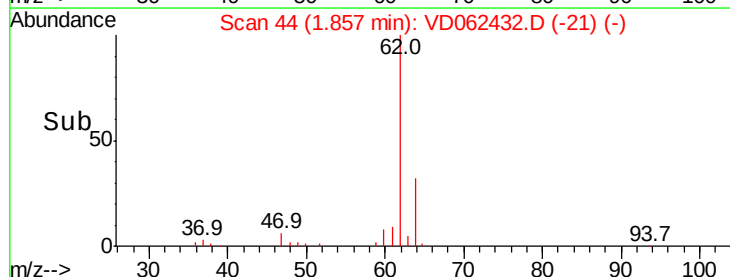
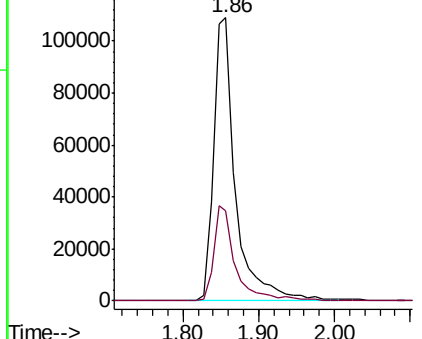
62 100

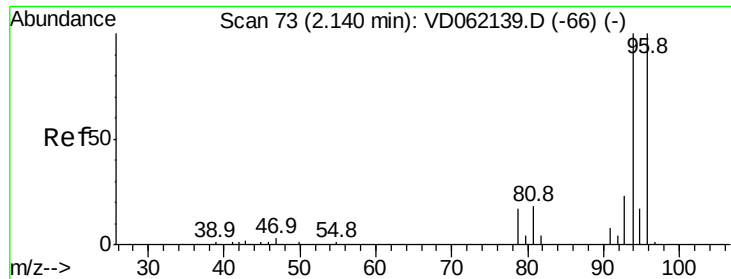
64 31.9 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 74.561 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

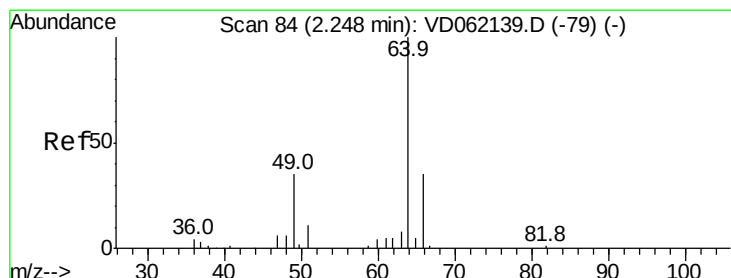
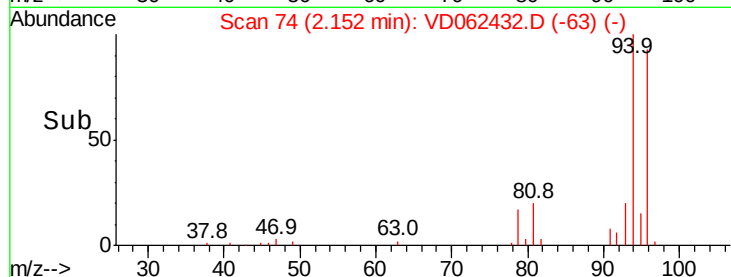
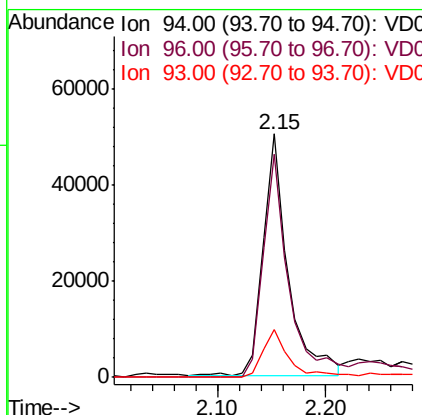
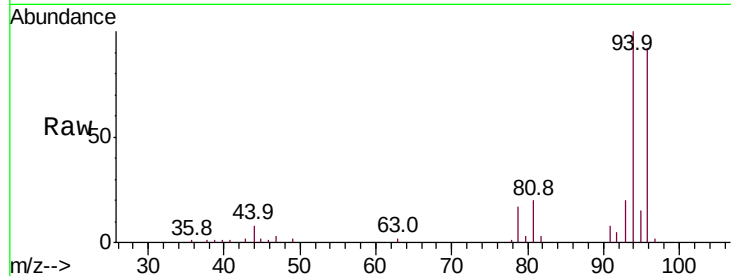
ClientSampleId :

VSTDCCC050

Tot Ion:	94	Resp:	81895
Ion	Ratio	Lower	Upper
94	100		
96	91.5	76.6	115.0
93	19.8	18.5	27.7

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#6

Chloroethane

Concen: 56.125 ug/l

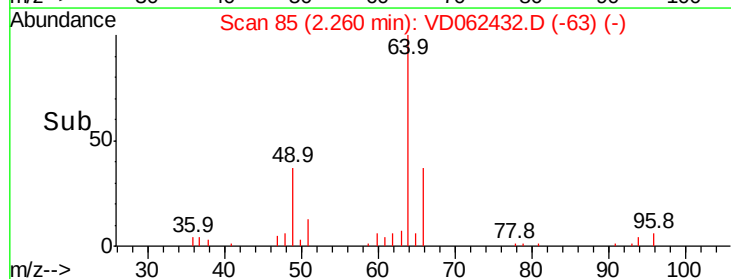
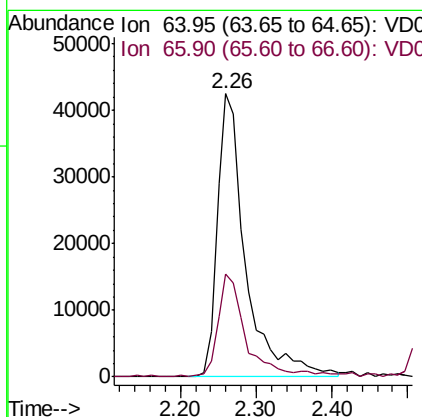
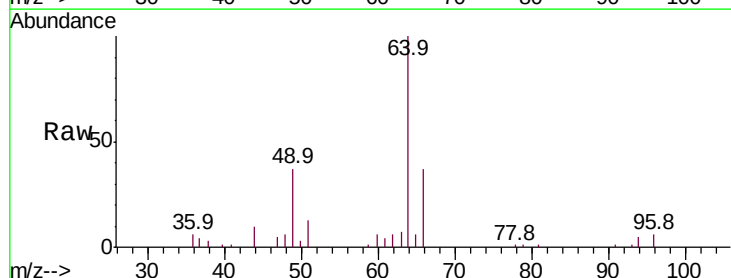
RT: 2.26 min Scan# 85

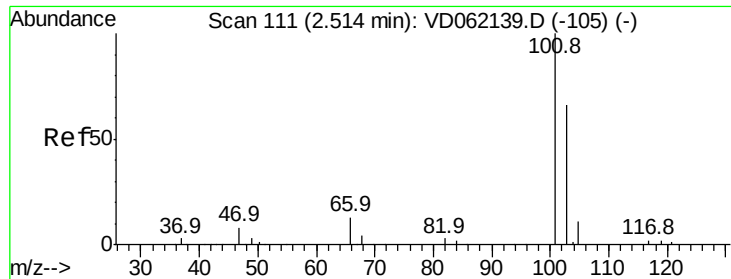
Delta R.T. 0.01 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion:	64	Resp:	110394
Ion	Ratio	Lower	Upper
64	100		
66	36.5	25.6	38.4





#7

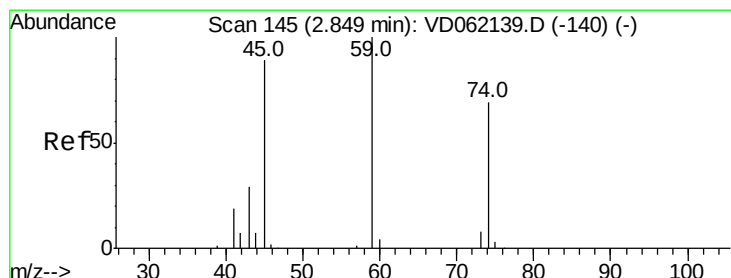
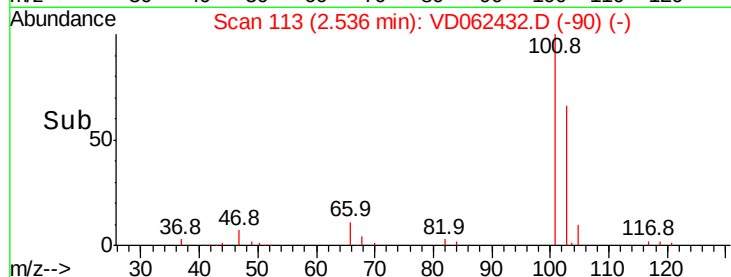
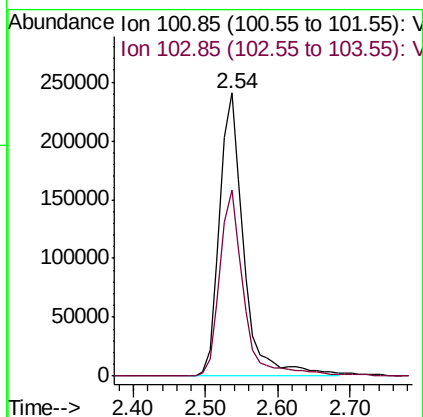
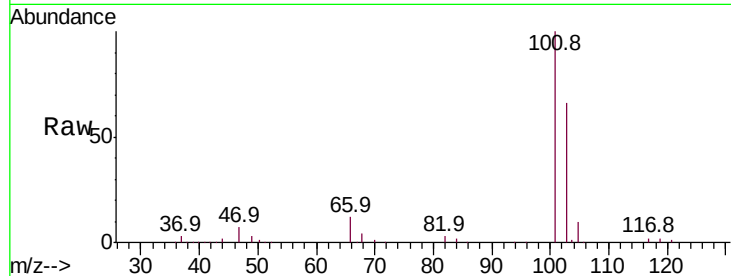
Trichlorofluoromethane
Concen: 61.208 ug/l
RT: 2.54 min Scan# 113
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

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ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 557803
Ion Ratio Lower Upper
101 100
103 65.6 53.6 80.4

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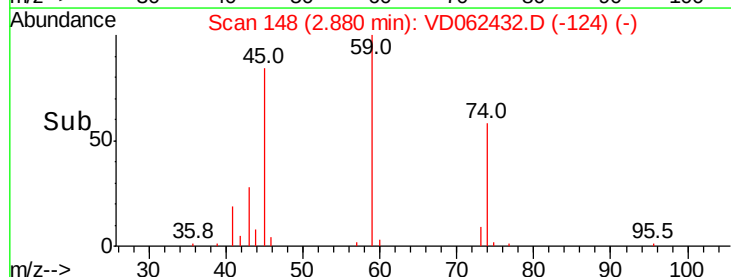
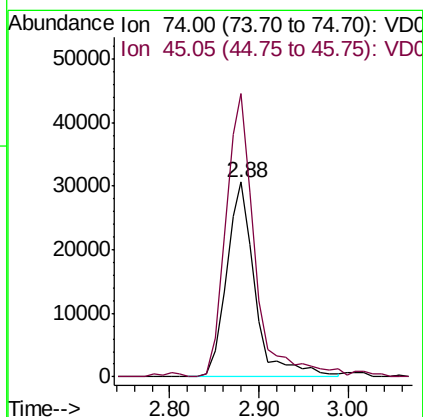
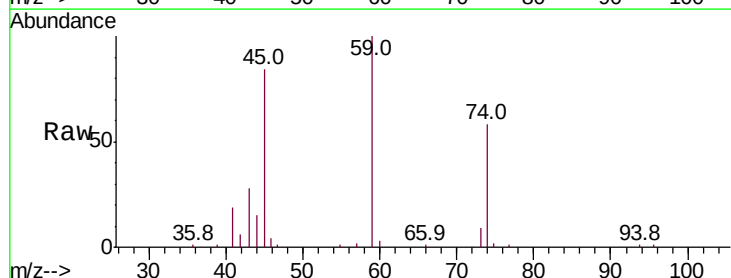
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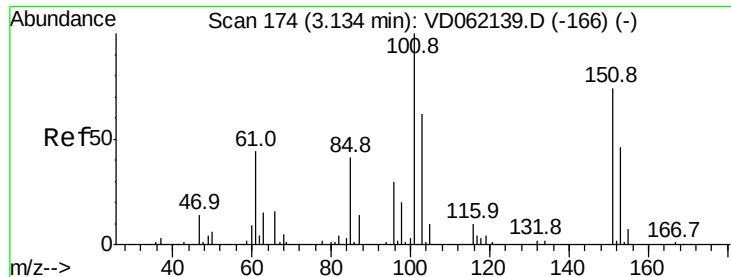


#8

Diethyl Ether
Concen: 39.082 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion: 74 Resp: 68690
Ion Ratio Lower Upper
74 100
45 145.3 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.073 ug/l

RT: 3.16 min Scan# 176

Delta R.T. 0.02 min

Lab File: VD062432.D

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Instrument :

MSVOA_D

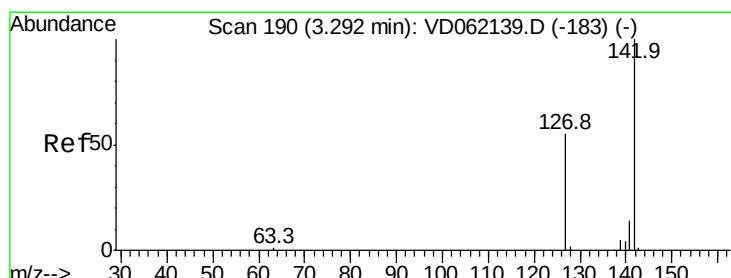
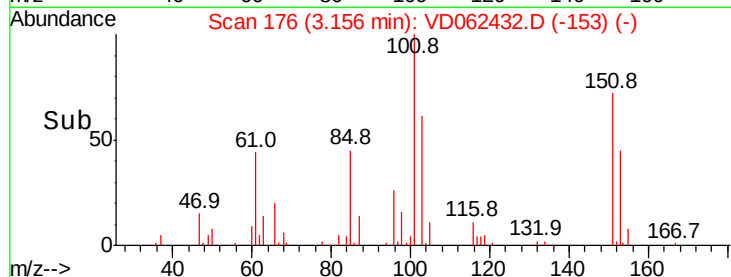
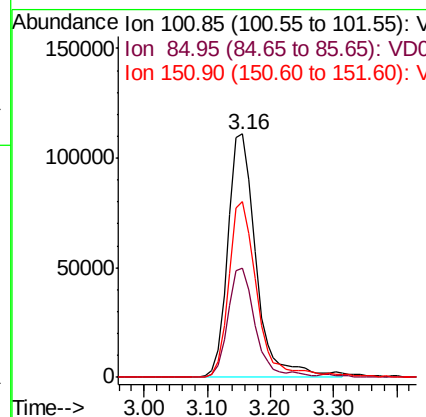
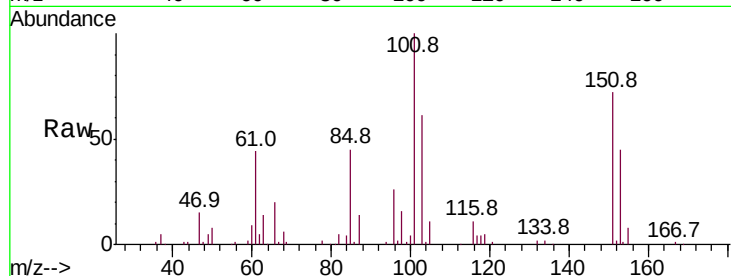
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	345196
Ion Ratio	Lower	Upper	
101	100		
85	44.7	32.4	48.6
151	72.3	59.4	89.0

Manual Integrations
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5/22/2019 9:32:52 AM



#10

Methyl Iodide

Concen: 43.573 ug/l

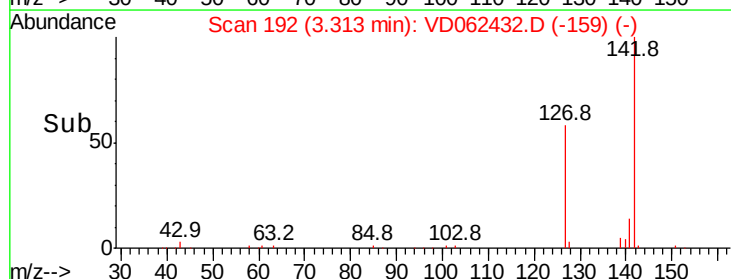
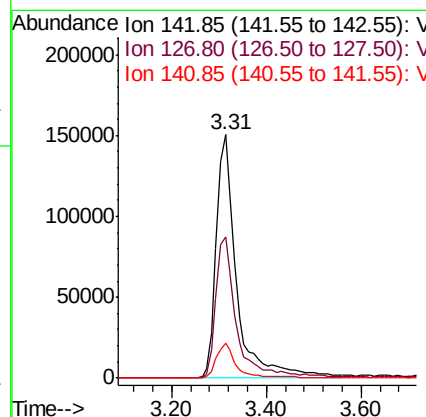
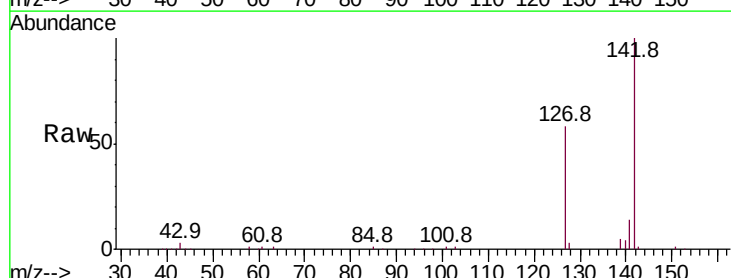
RT: 3.31 min Scan# 192

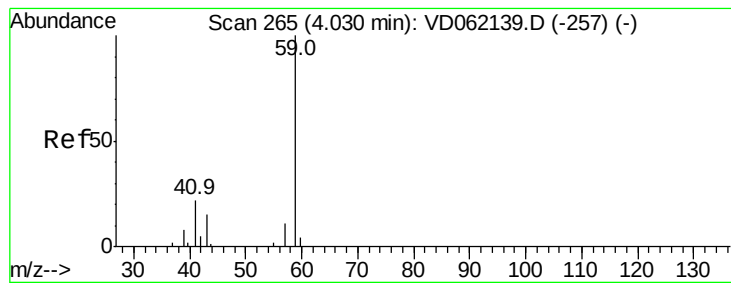
Delta R.T. 0.02 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion:	142	Resp:	453987
Ion Ratio	Lower	Upper	
142	100		
127	58.0	38.8	58.2
141	14.4	11.4	17.0





#11

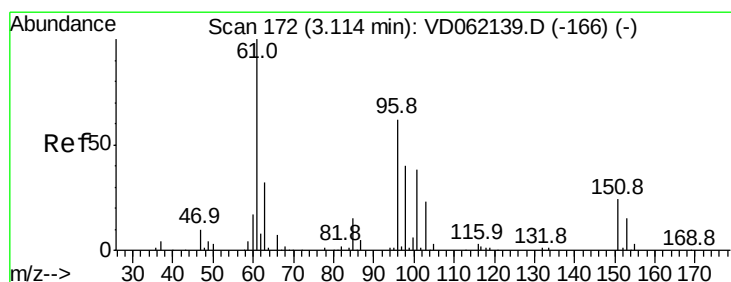
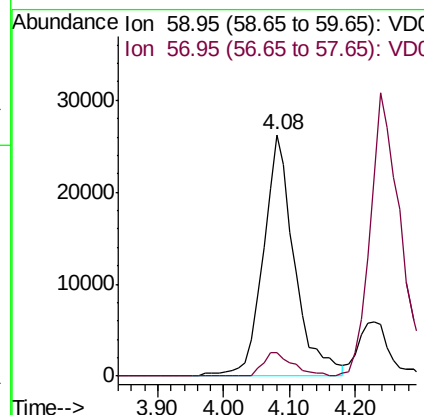
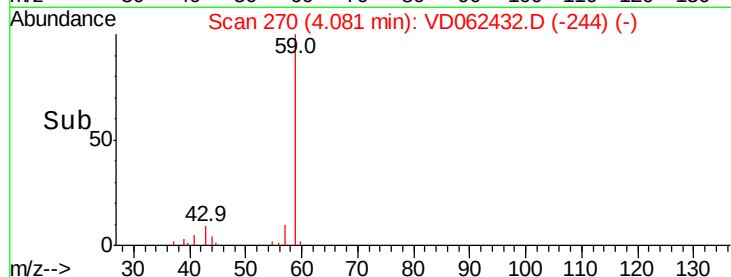
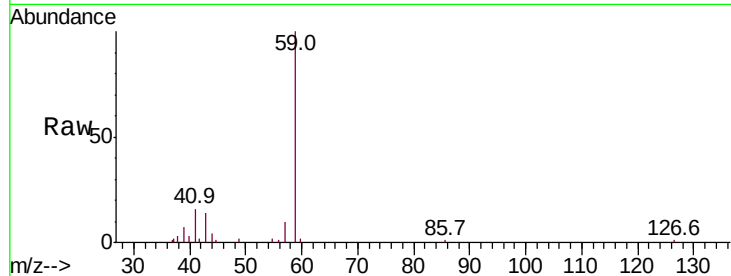
Tert butyl alcohol
Concen: 264.839 ug/l
RT: 4.08 min Scan# 270
Delta R.T. 0.05 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
59	100	86706		
57	9.9		6.9	10.3

Manual Integrations
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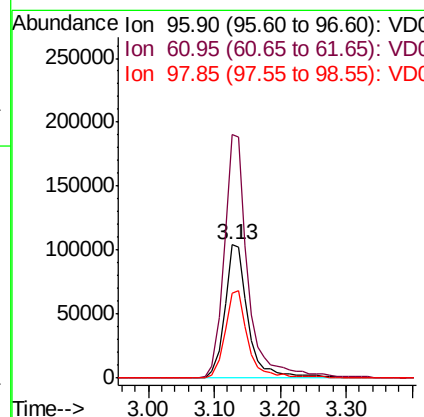
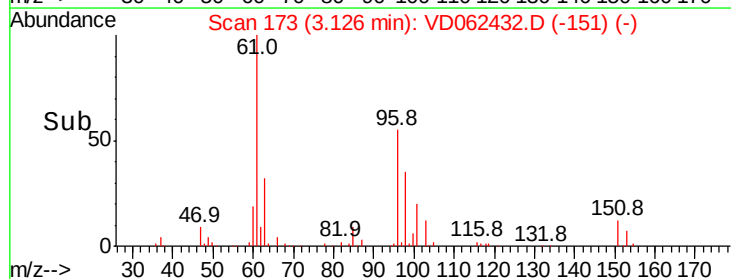
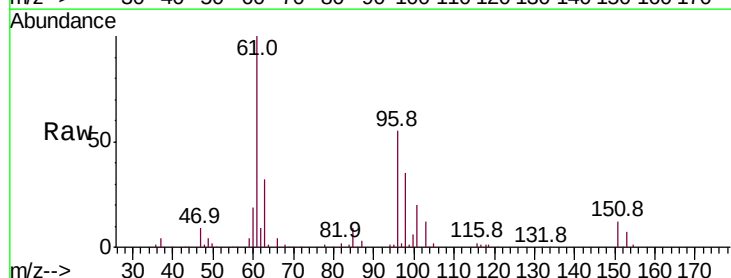
MMDadoda
5/22/2019 9:32:52 AM

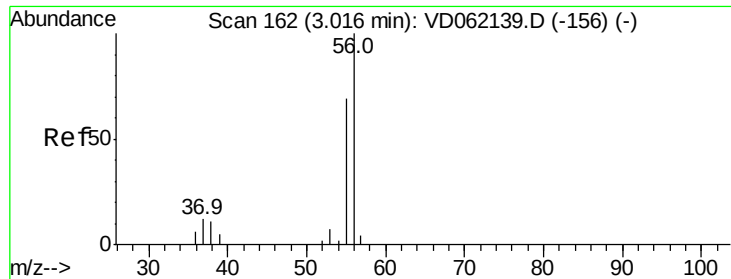


#12

1,1-Dichloroethene
Concen: 49.176 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.01 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	258785		
61	182.5		129.8	194.8
98	63.3		51.2	76.8





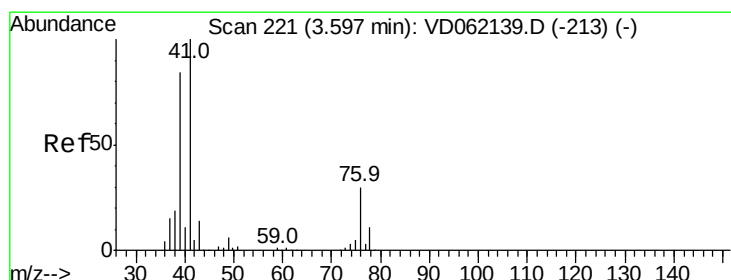
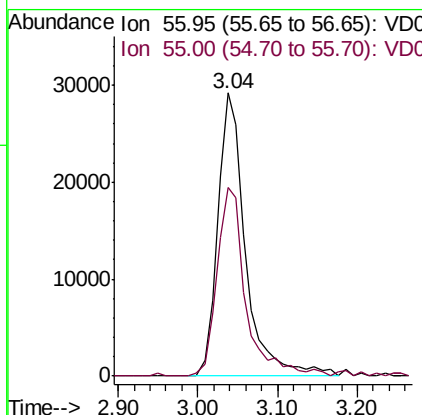
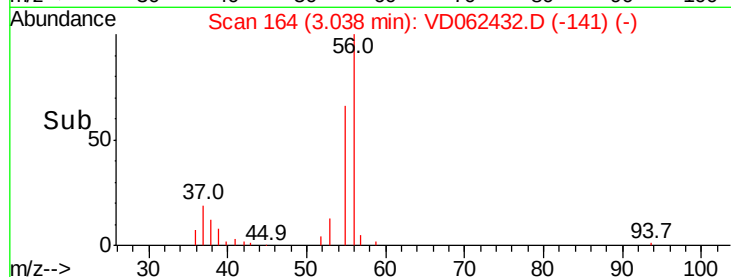
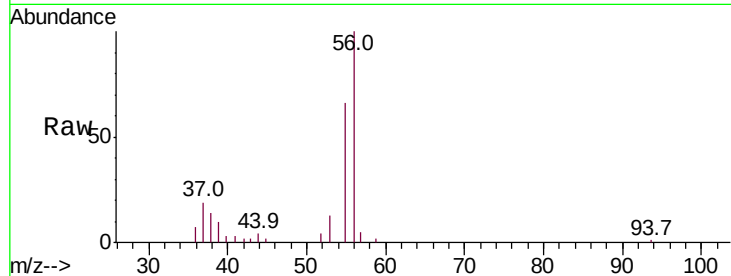
#13
Acrolein
Concen: 210.792 ug/l
RT: 3.04 min Scan# 164
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 71379
Ion Ratio Lower Upper
56 100
55 66.4 51.4 77.2

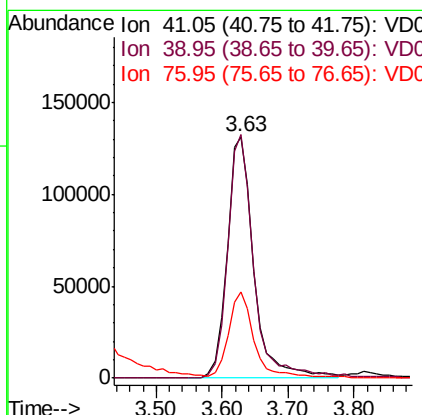
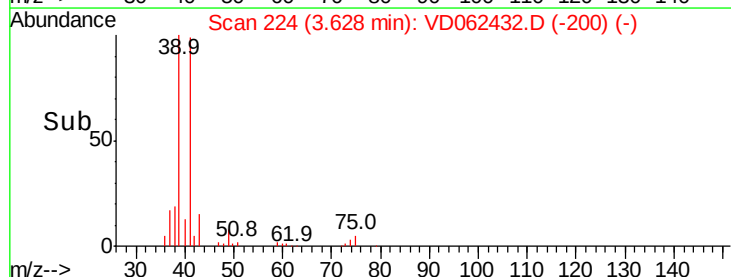
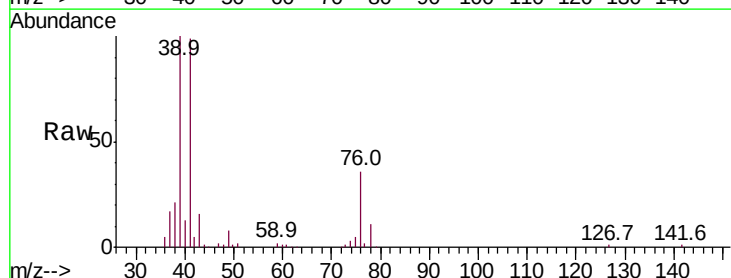
Manual Integrations
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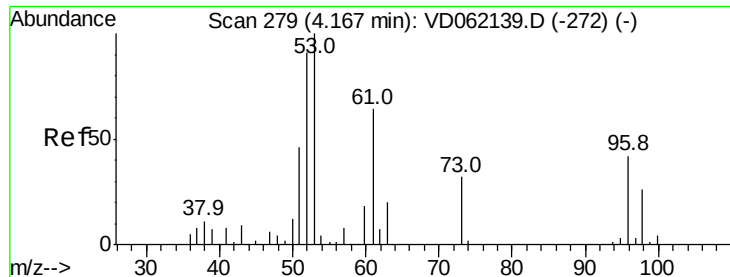
MMDadoda
5/22/2019 9:32:52 AM



#14
Allyl chloride
Concen: 48.541 ug/l
RT: 3.63 min Scan# 224
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion: 41 Resp: 371415
Ion Ratio Lower Upper
41 100
39 100.9 60.5 90.7#
76 35.9 31.8 47.8





#15

Acrylonitrile

Concen: 247.434 ug/l

RT: 4.20 min Scan# 282

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

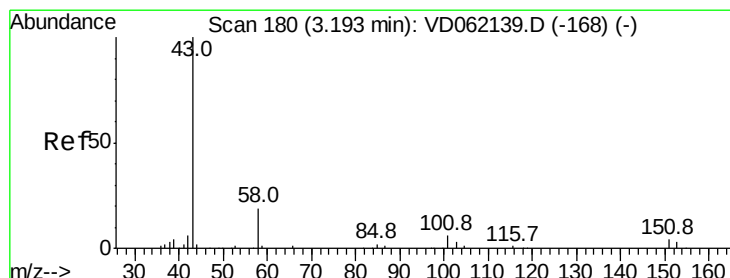
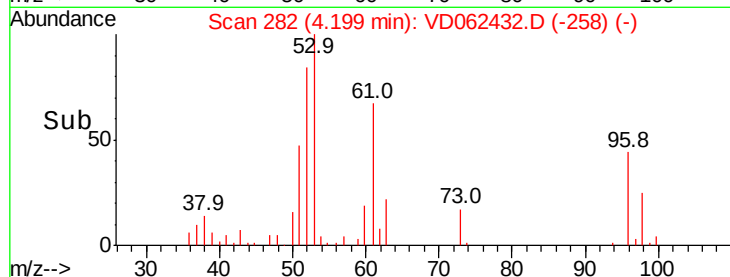
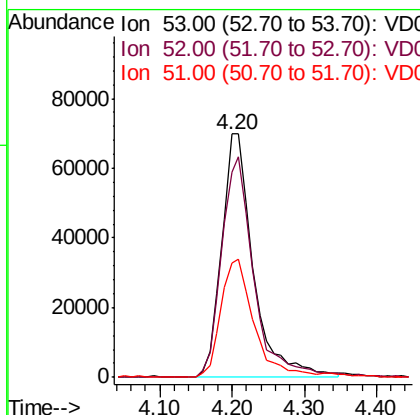
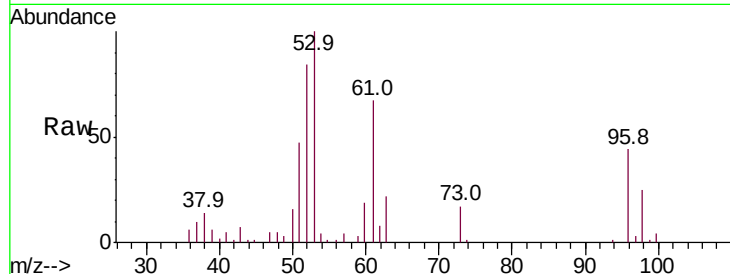
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	212925
Ion Ratio	Lower	Upper	
53	100		
52	84.3	65.0	97.4
51	47.1	32.6	48.8

Manual Integrations
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#16

Acetone

Concen: 283.251 ug/l

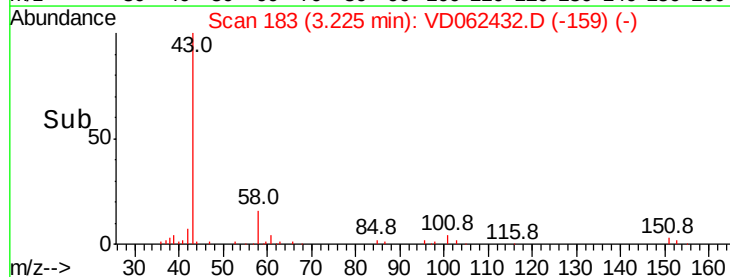
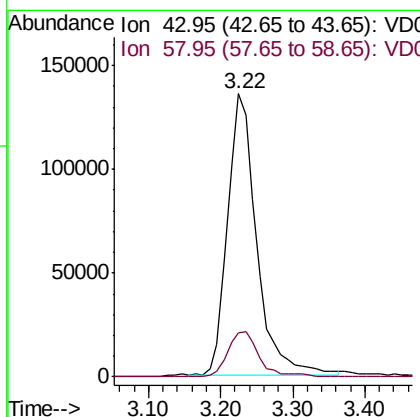
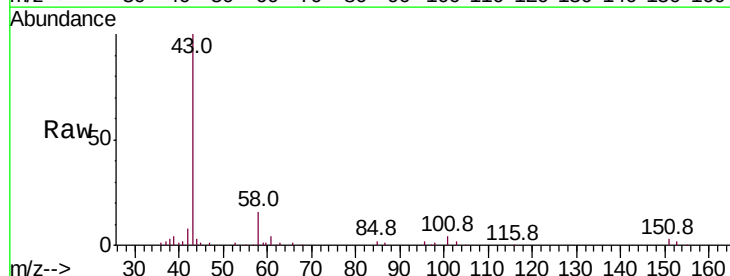
RT: 3.22 min Scan# 183

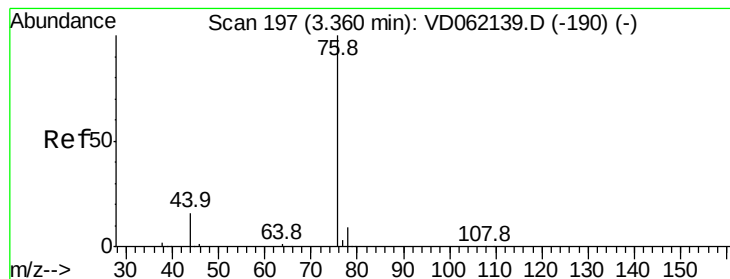
Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion:	43	Resp:	380986
Ion Ratio	Lower	Upper	
43	100		
58	15.7	19.9	29.9#





#17

Carbon Disulfide

Concen: 40.792 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.02 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 617520

Ion Ratio Lower Upper

76 100

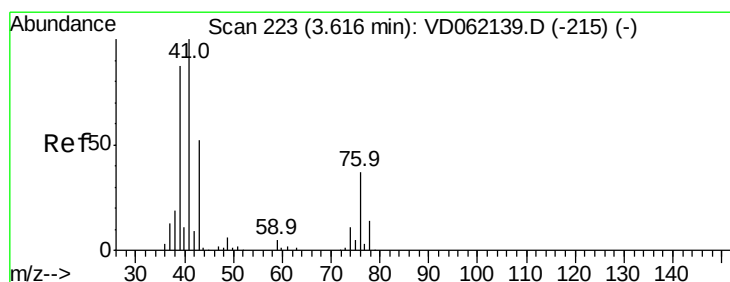
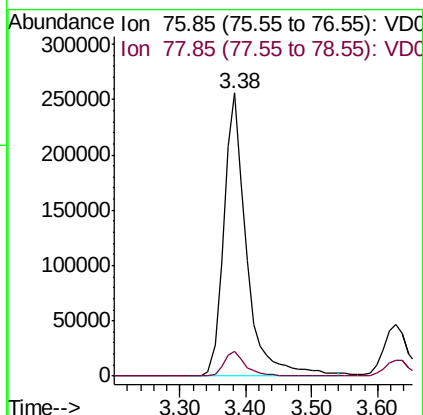
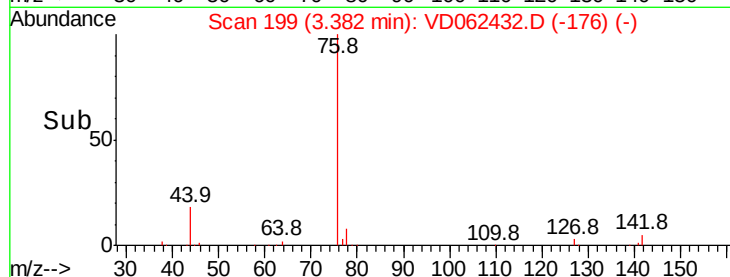
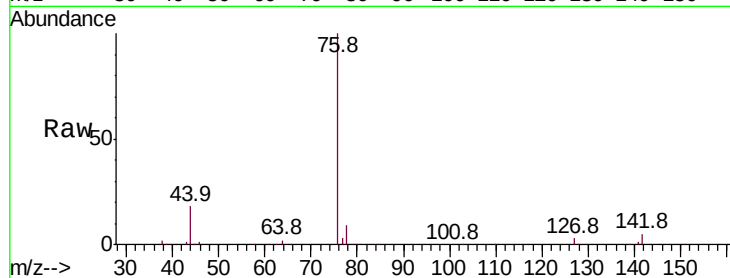
78 8.8 7.2 10.8

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#18

Methyl Acetate

Concen: 50.598 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.03 min

Lab File: VD062432.D

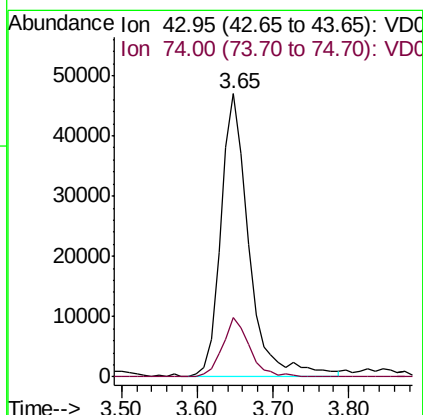
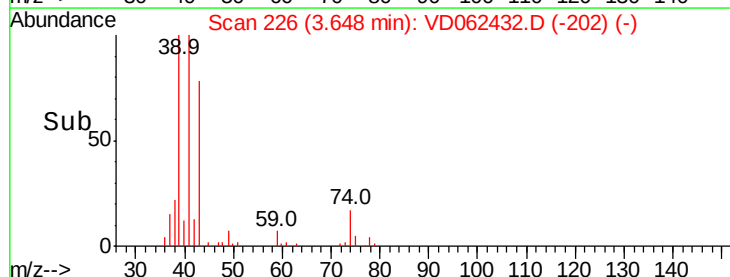
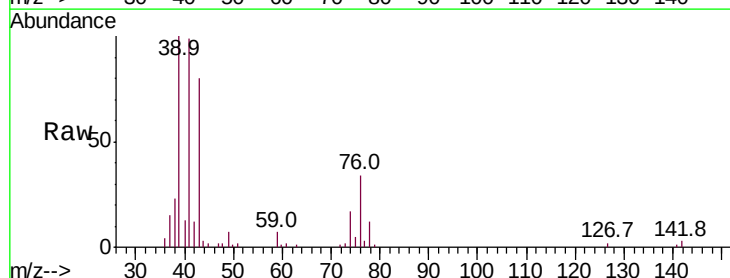
Acq: 17 May 2019 11:28

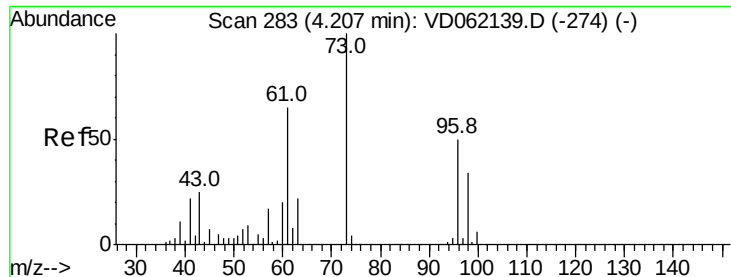
Tgt Ion: 43 Resp: 121709

Ion Ratio Lower Upper

43 100

74 20.9 18.0 27.0





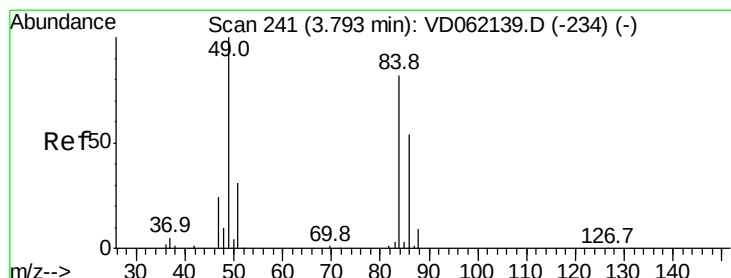
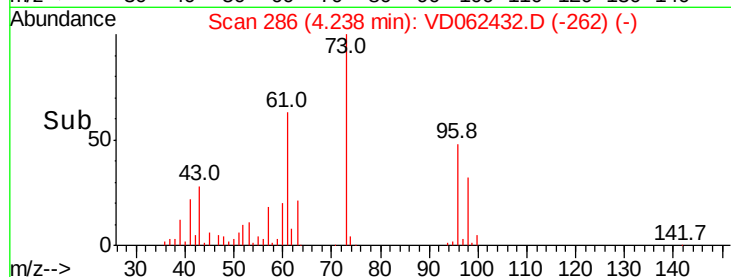
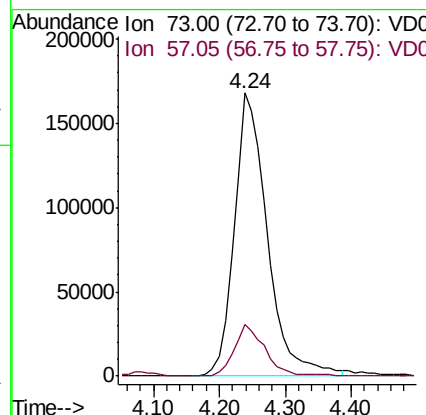
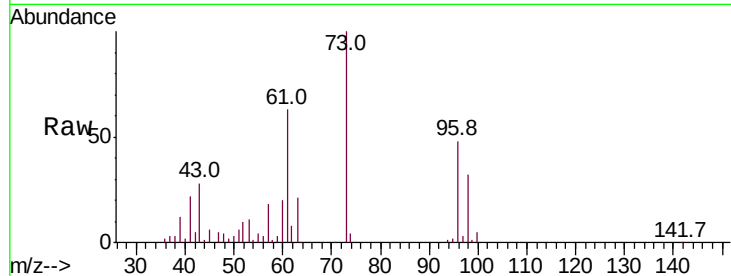
#19
Methyl tert-butyl Ether
Concen: 52.273 ug/l
RT: 4.24 min Scan# 286
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 589628
Ion Ratio Lower Upper
73 100
57 18.3 16.3 24.5

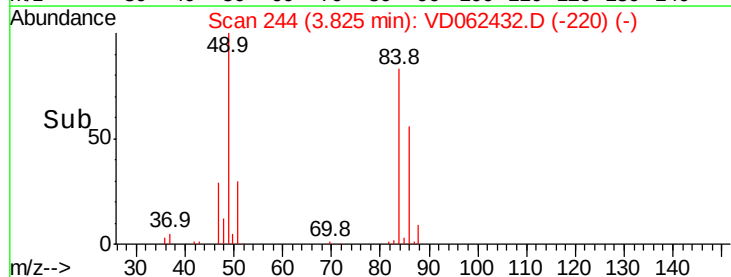
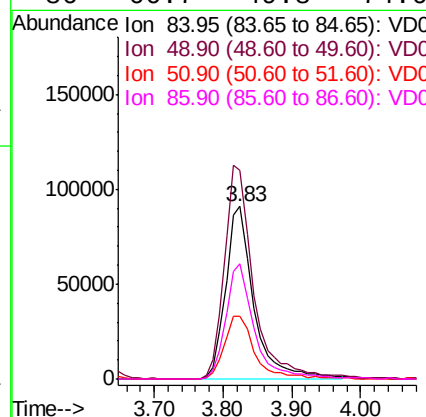
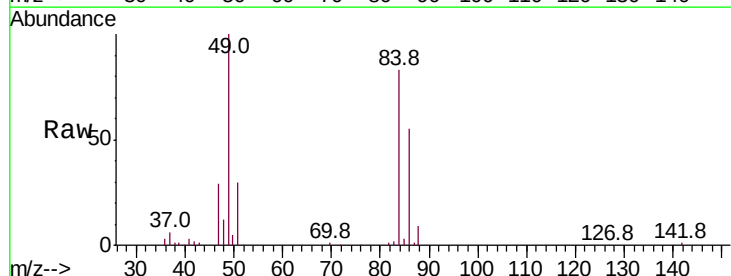
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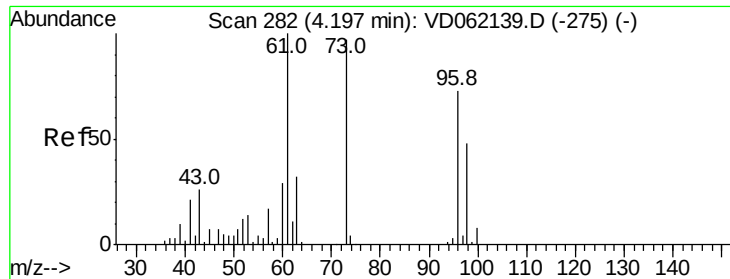
MMDadoda
5/22/2019 9:32:52 AM



#20
Methylene Chloride
Concen: 46.141 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion: 84 Resp: 259130
Ion Ratio Lower Upper
84 100
49 120.6 94.0 141.0
51 36.2 29.0 43.4
86 66.7 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 50.330 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 294725

Ion Ratio Lower Upper

96 100

61 148.1 104.4 156.6

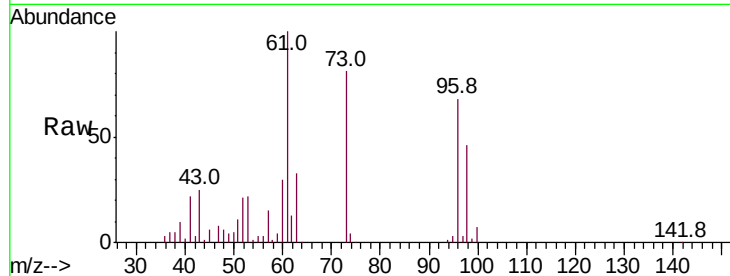
98 67.8 51.8 77.8

Manual Integrations

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MMDadoda

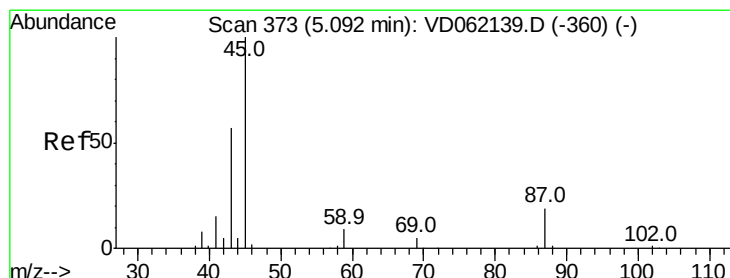
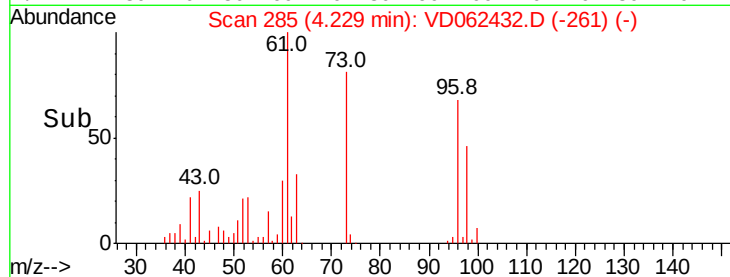
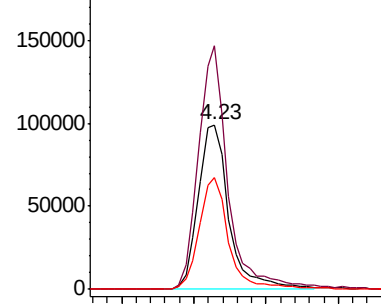
5/22/2019 9:32:52 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 51.943 ug/l

RT: 5.13 min Scan# 377

Delta R.T. 0.04 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion: 45 Resp: 845752

Ion Ratio Lower Upper

45 100

43 63.5 46.2 69.2

87 19.7 15.9 23.9

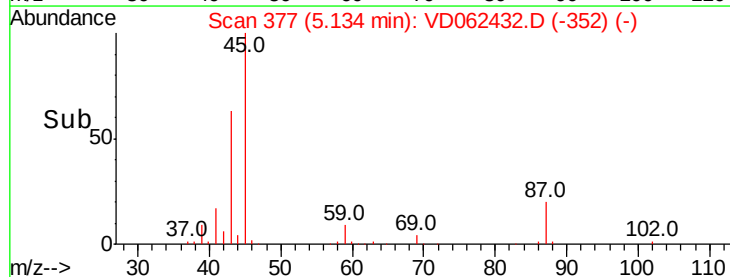
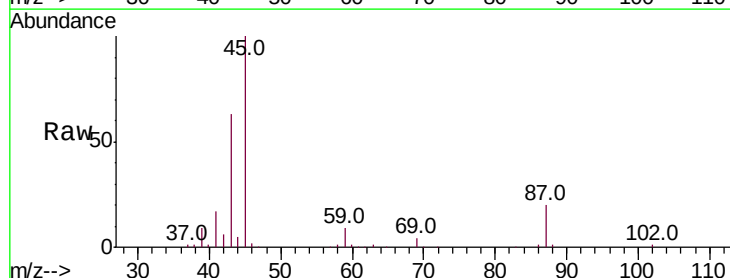
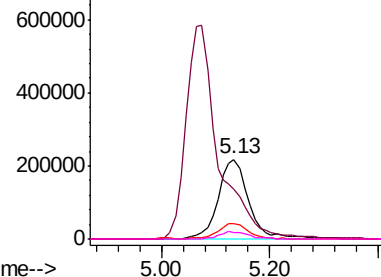
59 8.6 7.9 11.9

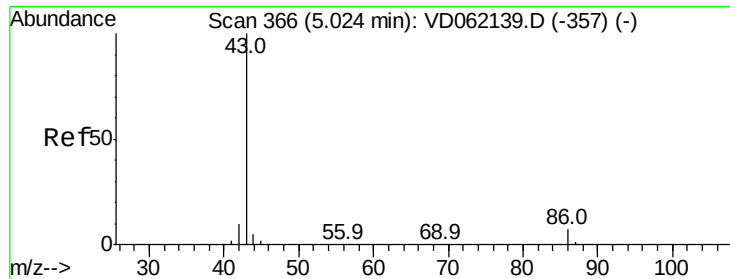
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 278.641 ug/l

RT: 5.07 min Scan# 371

Delta R.T. 0.05 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2393725

Ion Ratio Lower Upper

43 100

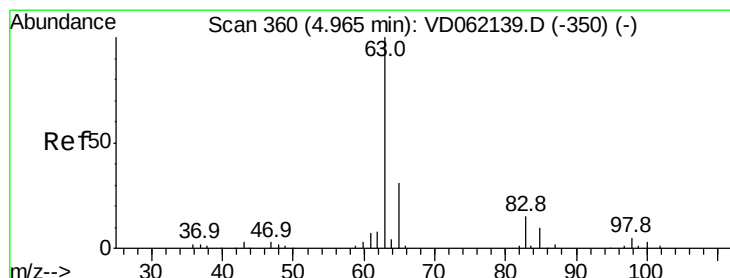
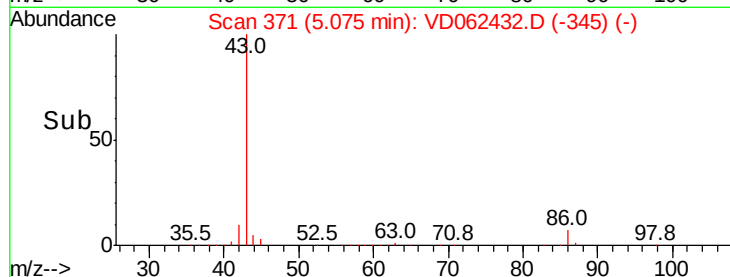
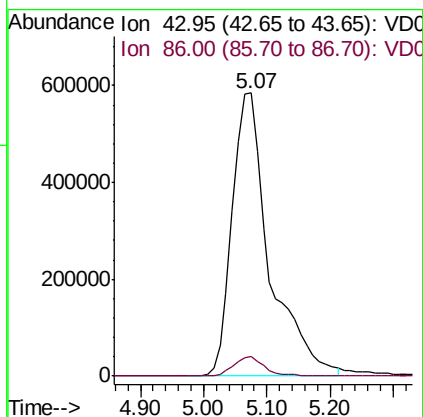
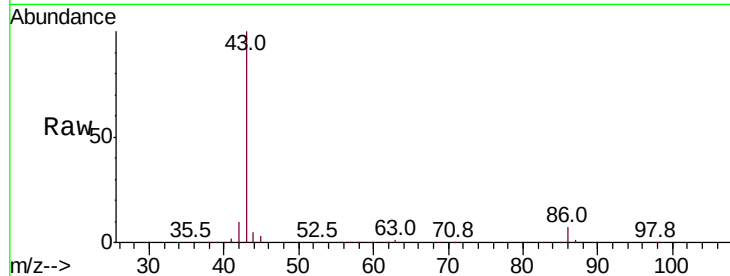
86 6.8 6.4 9.6

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 50.110 ug/l

RT: 5.00 min Scan# 363

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

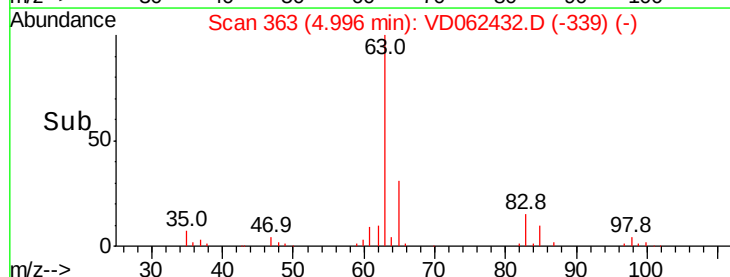
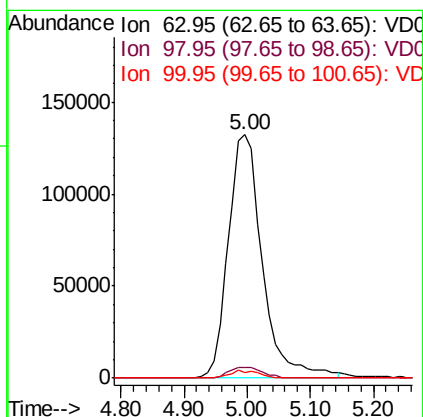
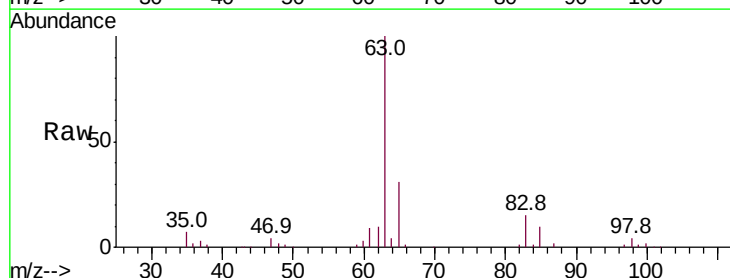
Tgt Ion: 63 Resp: 492205

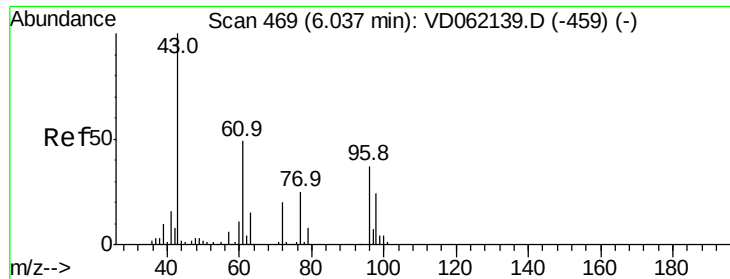
Ion Ratio Lower Upper

63 100

98 4.2 2.8 8.4

100 2.2 1.8 5.5





#25

2-Butanone

Concen: 281.179 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.04 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 412524

Ion Ratio Lower Upper

43 100

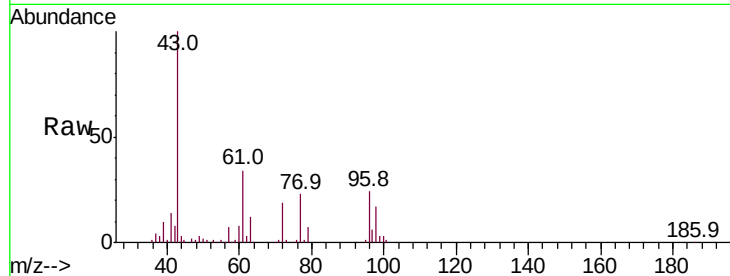
72 18.8 16.2 24.4

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

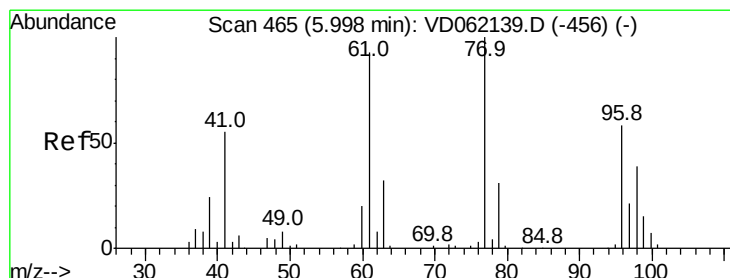
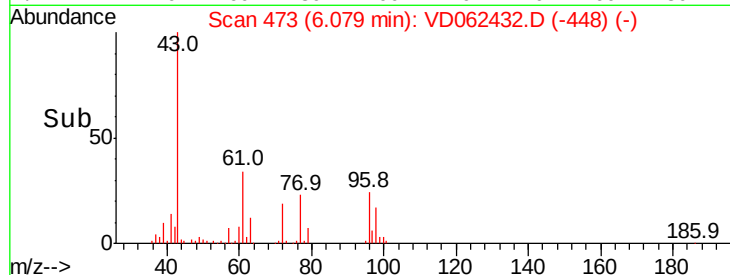
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#26

2,2-Dichloropropane

Concen: 60.150 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD062432.D

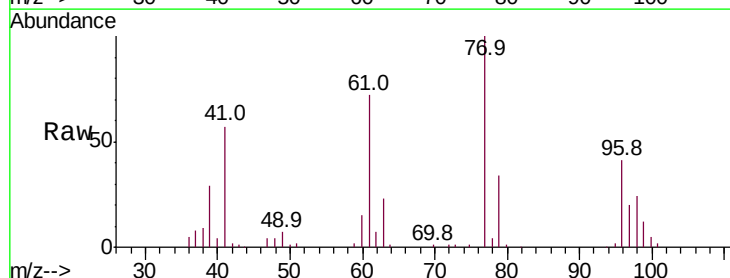
Acq: 17 May 2019 11:28

Tgt Ion: 77 Resp: 588527

Ion Ratio Lower Upper

77 100

97 20.4 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

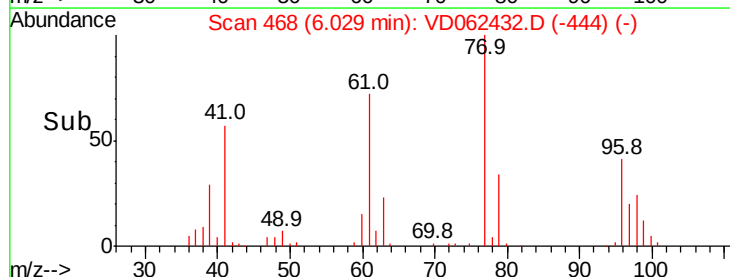
150000

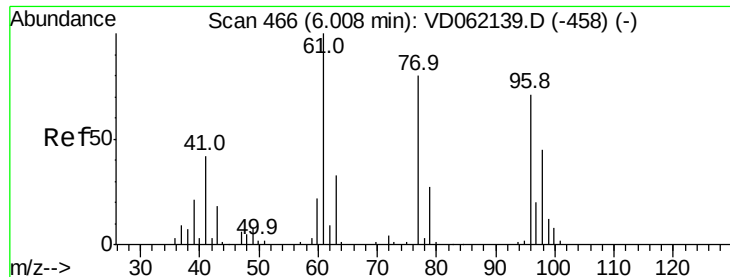
100000

50000

0

Time--> 5.90 6.00 6.10 6.20





#27

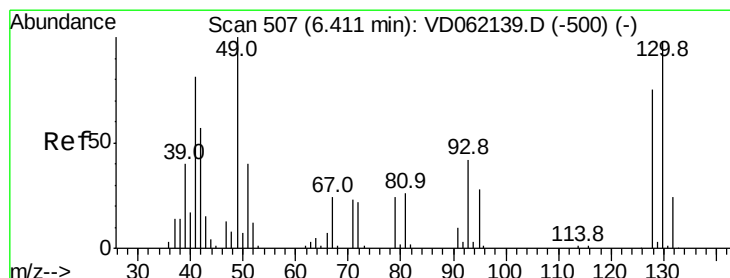
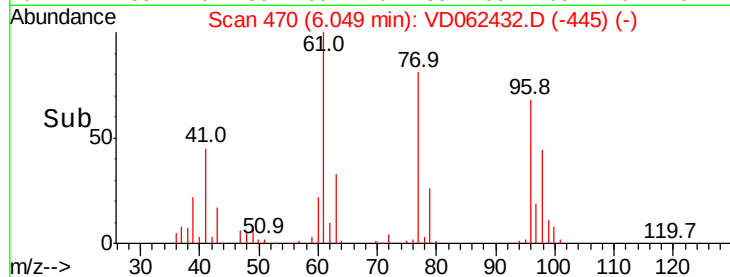
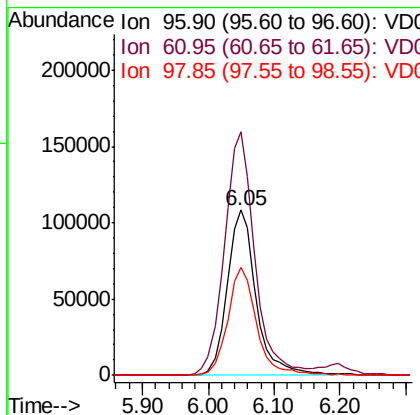
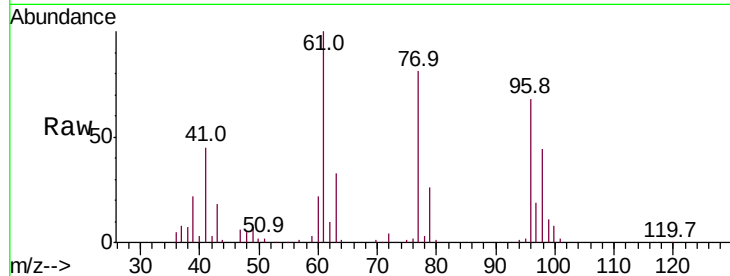
cis-1,2-Dichloroethene
Concen: 50.777 ug/l
RT: 6.05 min Scan# 470
Delta R.T. 0.04 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	332825		
61	147.3	0.0	279.8	
98	65.0	0.0	136.0	

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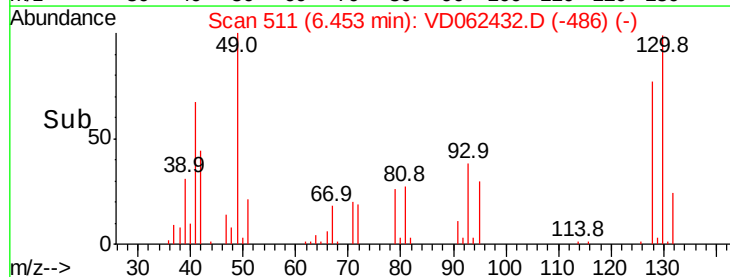
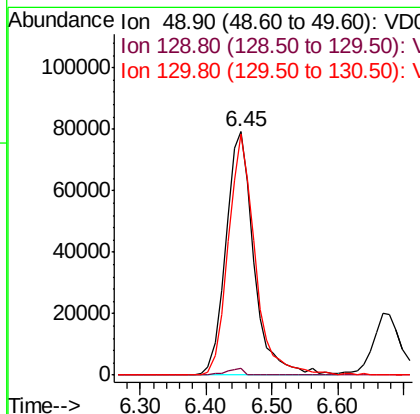
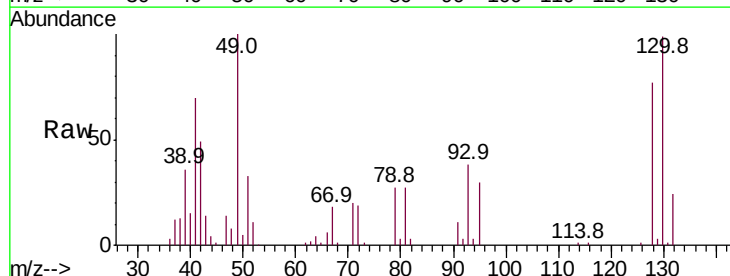
MMDadoda
5/22/2019 9:32:52 AM

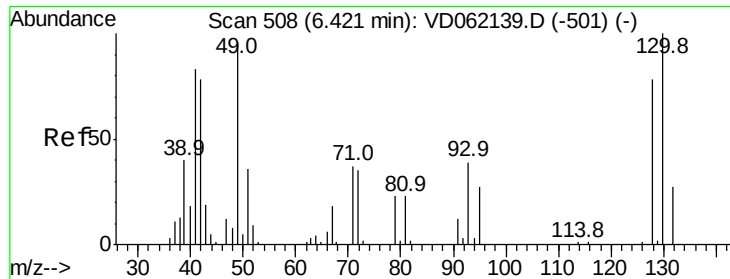


#28

Bromochloromethane
Concen: 61.075 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.04 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	236026		
129	2.6	0.0	6.6	
130	99.2	86.7	130.1	





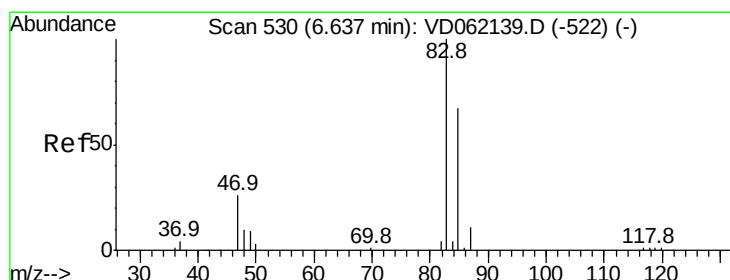
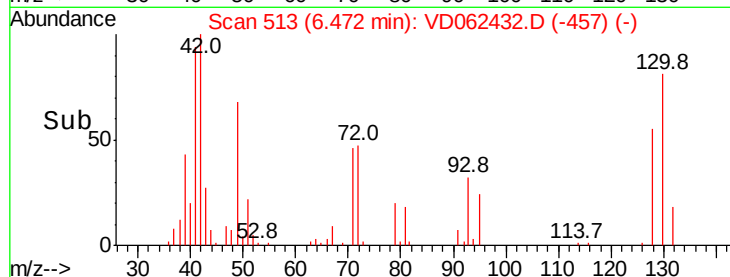
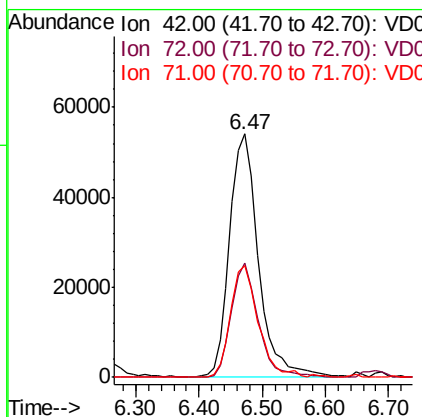
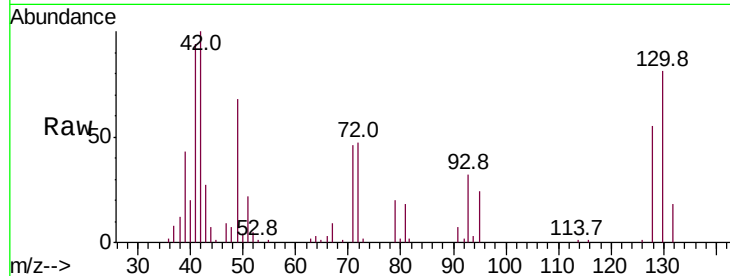
#29
Tetrahydrofuran
Concen: 253.709 ug/l
RT: 6.47 min Scan# 513
Delta R.T. 0.05 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	37.8	56.6
71	43.7	36.7	55.1

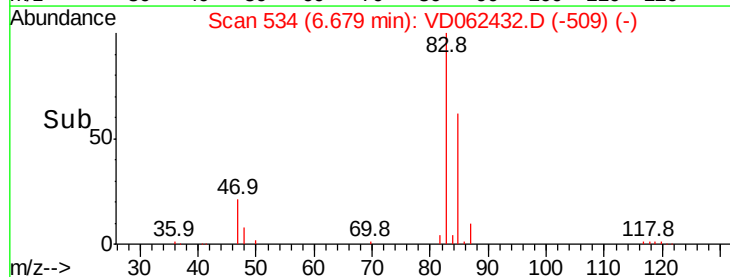
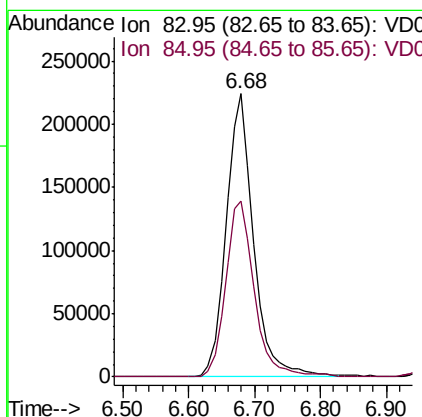
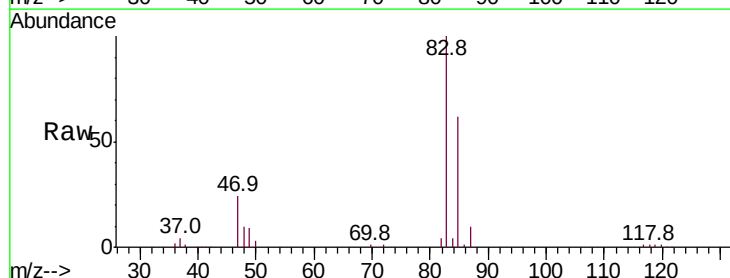
Manual Integrations
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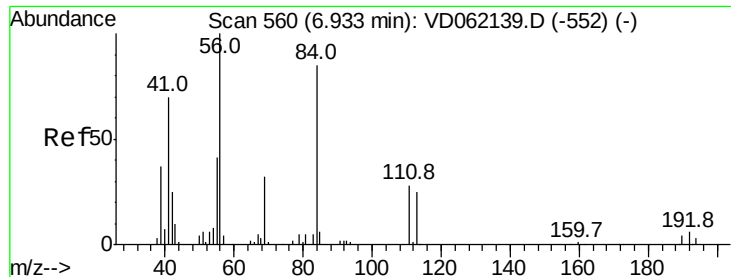
MMDadoda
5/22/2019 9:32:52 AM



#30
Chloroform
Concen: 54.791 ug/l
RT: 6.68 min Scan# 534
Delta R.T. 0.04 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.7	77.5





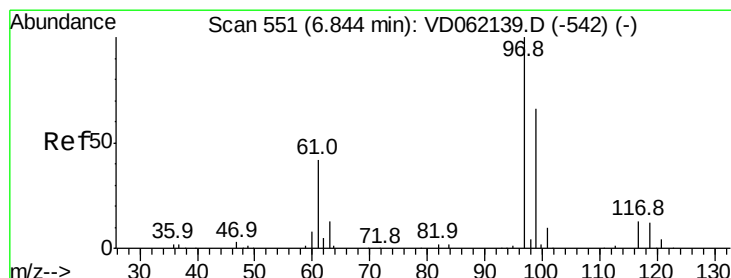
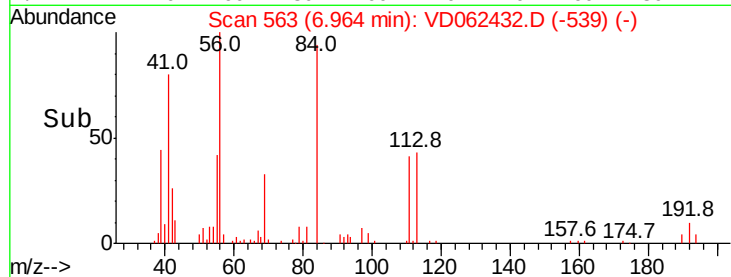
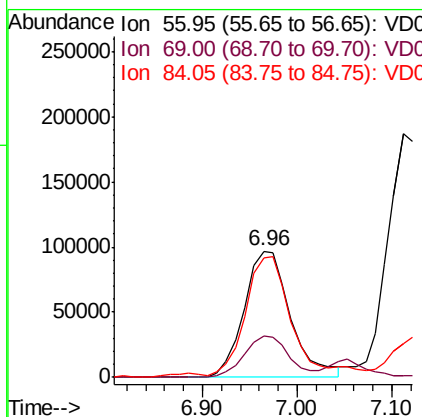
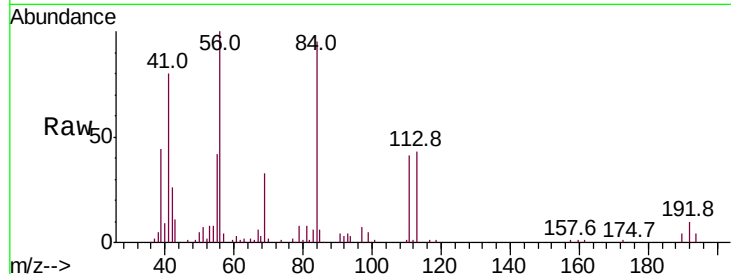
#31
Cyclohexane
Concen: 48.769 ug/l
RT: 6.96 min Scan# 563
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.0	25.8	38.6
84	94.7	72.2	108.4

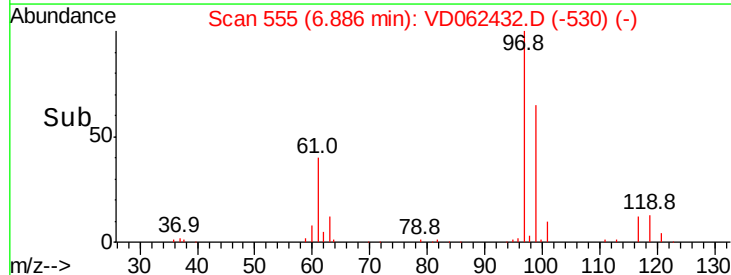
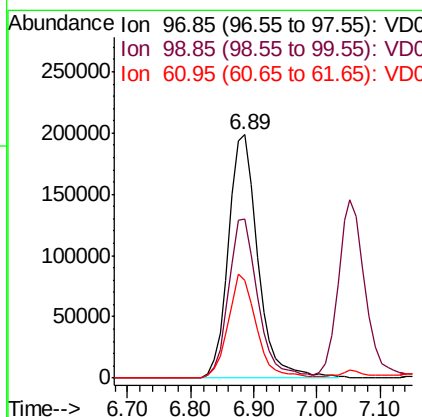
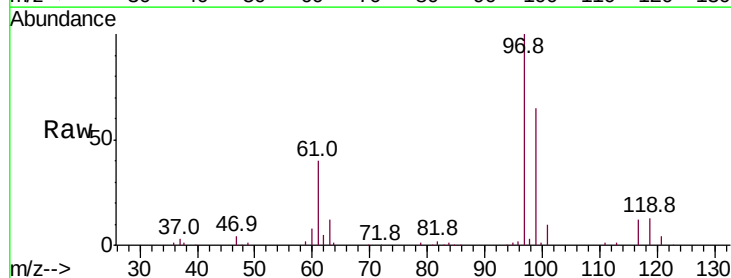
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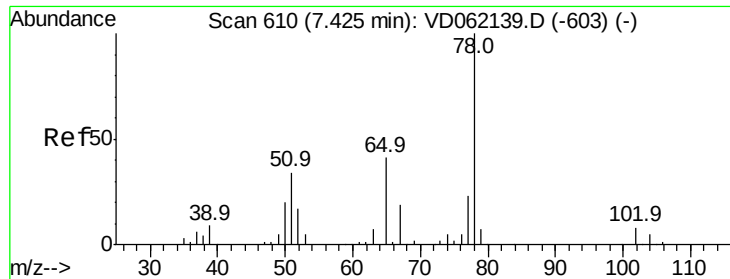
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#32
1,1,1-Trichloroethane
Concen: 57.115 ug/l
RT: 6.89 min Scan# 555
Delta R.T. 0.04 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	52.2	78.2
61	40.0	32.4	48.6





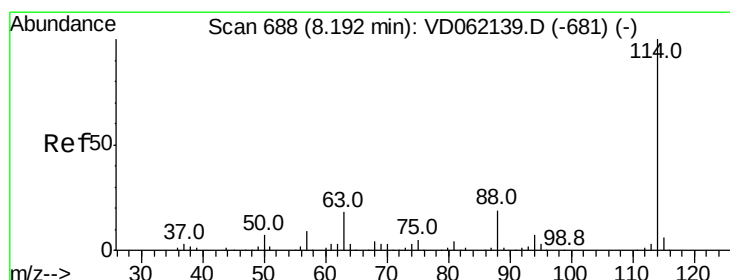
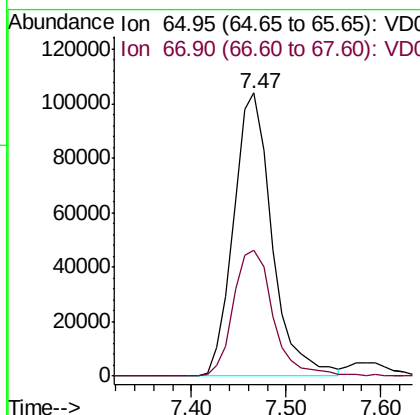
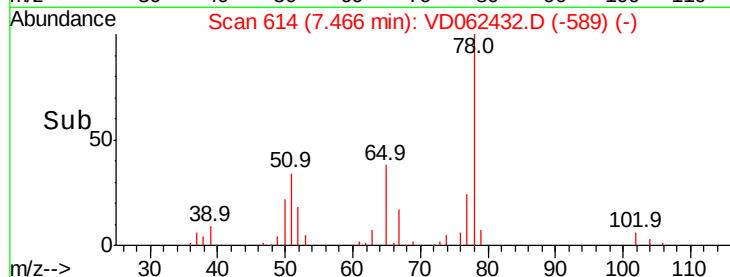
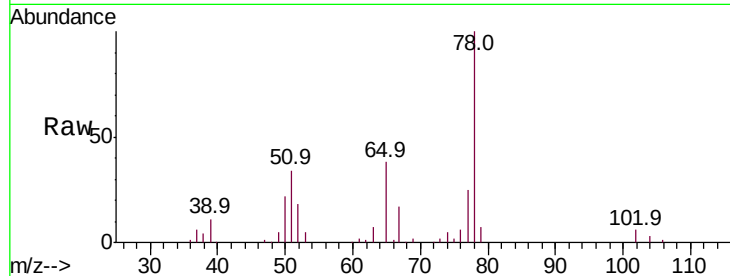
#33
 1,2-Dichloroethane-d4
 Concen: 45.560 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. 0.04 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	292217		
67	44.4	0.0	98.0	

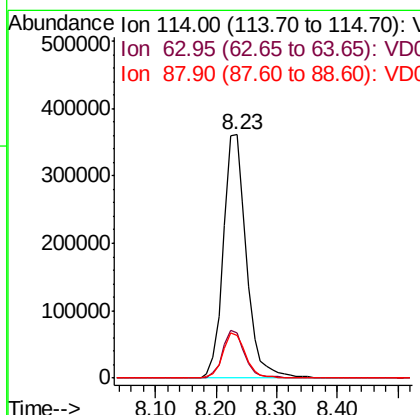
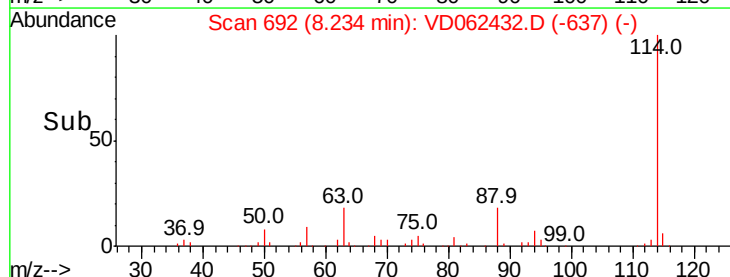
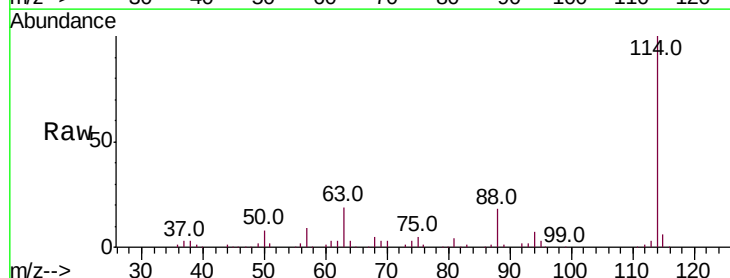
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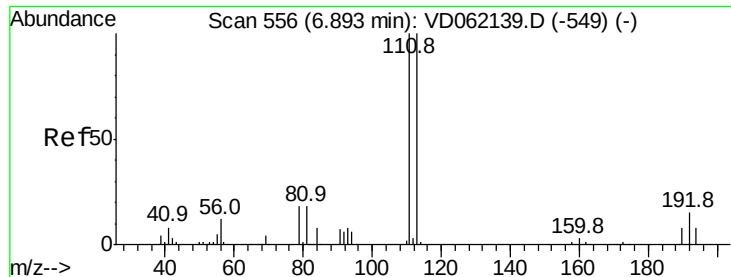
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.04 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	951596		
63	18.6	0.0	32.4	
88	17.7	0.0	33.6	





#35

Dibromofluoromethane

Concen: 45.461 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.04 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

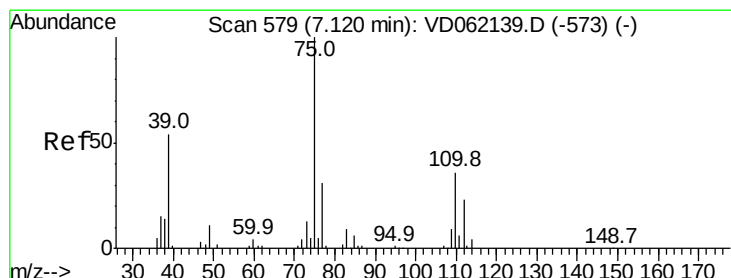
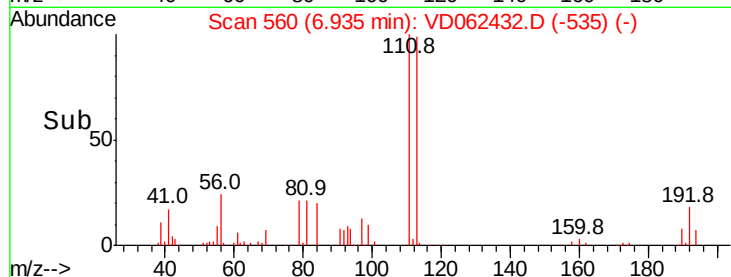
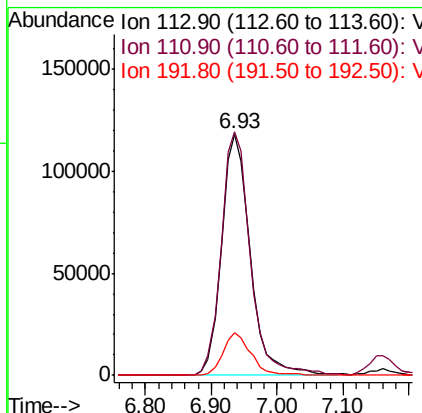
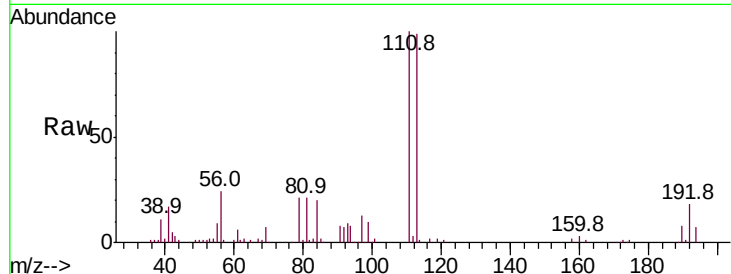
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	358939
Ion Ratio	Lower	Upper	
113	100		
111	100.8	78.5	117.7
192	17.7	13.0	19.4

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#36

1,1-Dichloropropene

Concen: 55.211 ug/l

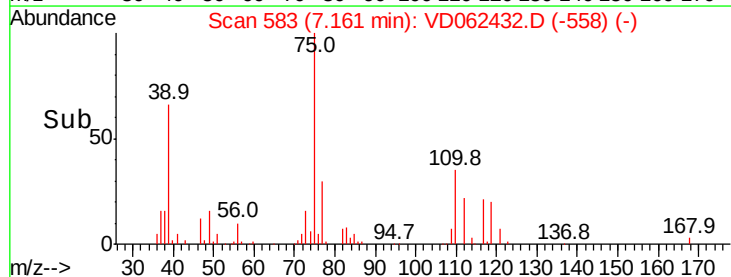
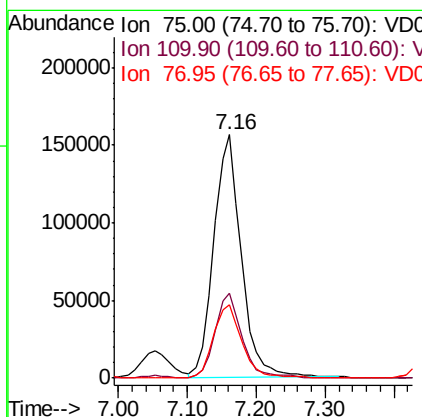
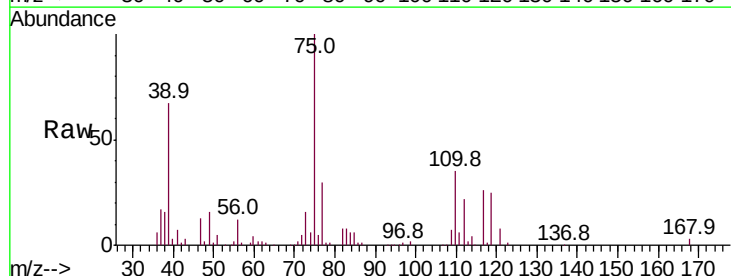
RT: 7.16 min Scan# 583

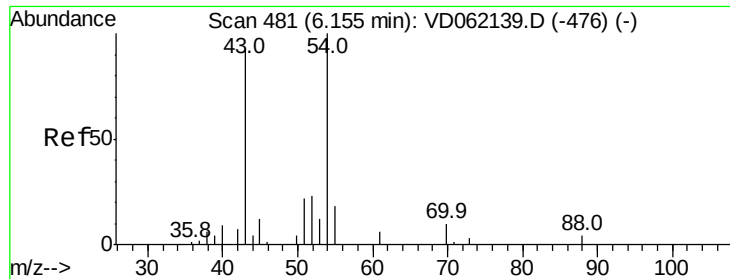
Delta R.T. 0.04 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion:	75	Resp:	430765
Ion Ratio	Lower	Upper	
75	100		
110	34.8	19.1	57.1
77	30.0	25.6	38.4





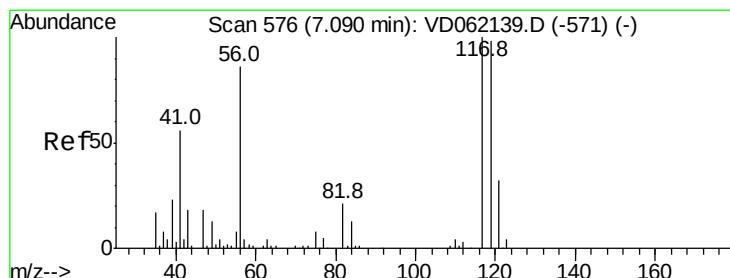
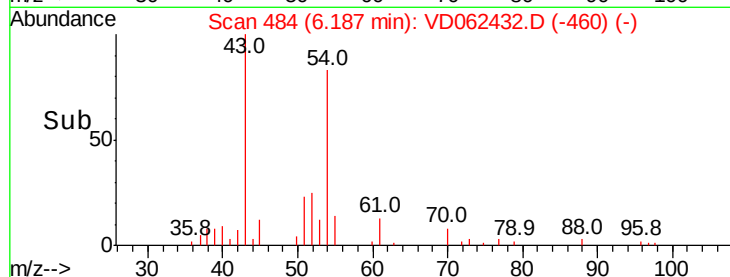
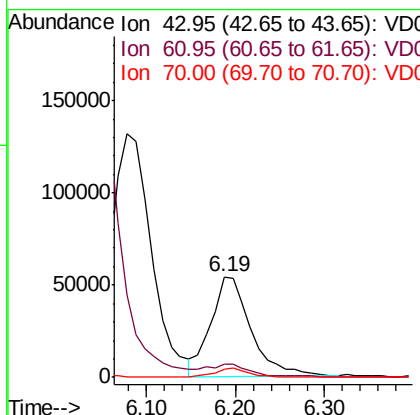
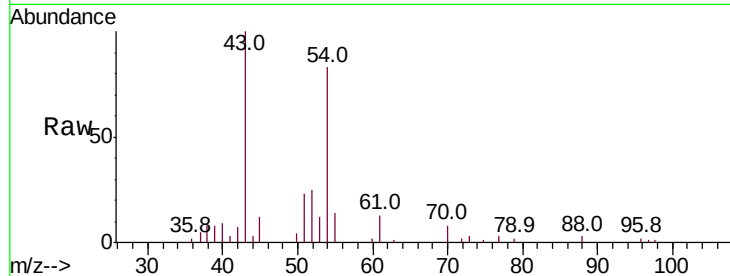
#37
Ethyl Acetate
Concen: 50.835 ug/l
RT: 6.19 min Scan# 484
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.6	14.7	22.1#
70	8.4	7.8	11.6

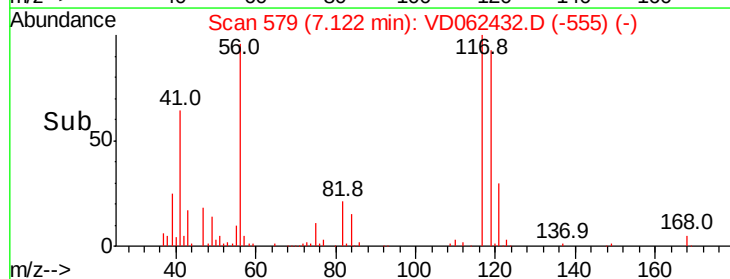
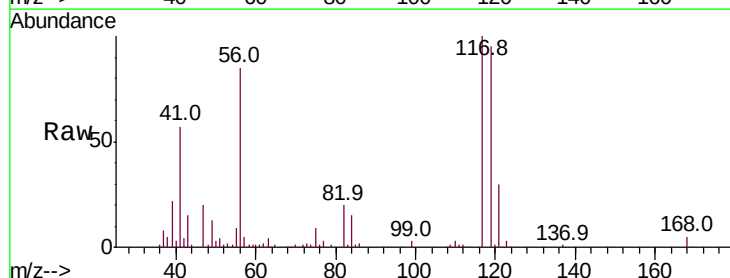
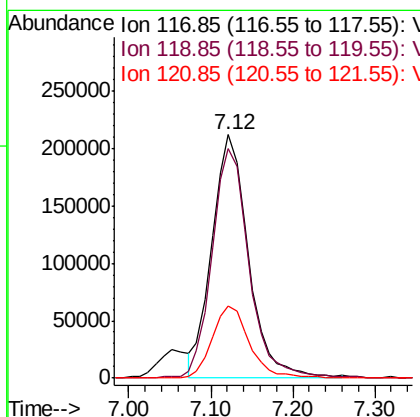
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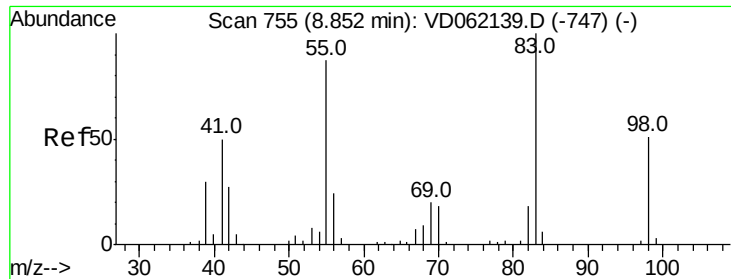
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#38
Carbon Tetrachloride
Concen: 61.487 ug/l m
RT: 7.12 min Scan# 579
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.8	113.8
121	29.9	25.9	38.9





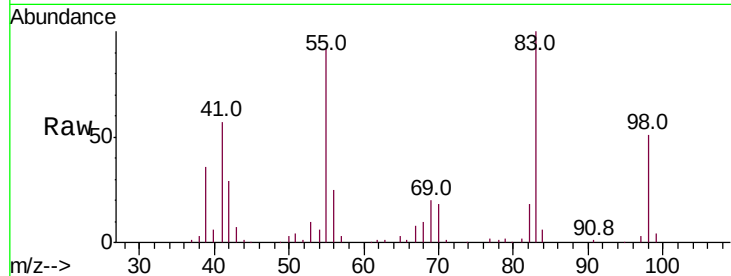
#39
Methylvlcyclohexane
Concen: 49.909 ug/l
RT: 8.87 min Scan# 757
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

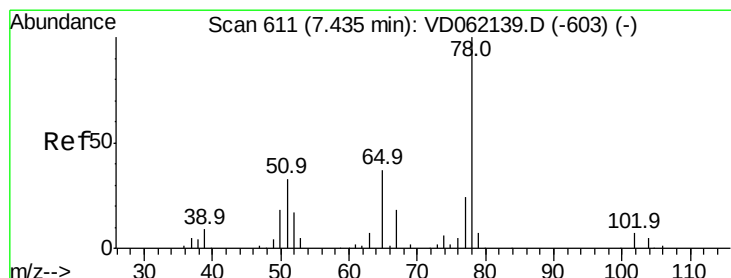
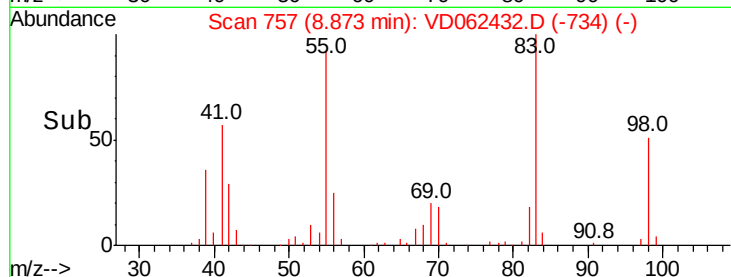
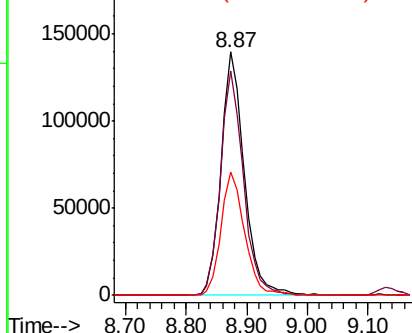
Tot Ion	Ratio	Lower	Upper
83	100		
55	92.3	68.2	102.4
98	50.8	38.2	57.4

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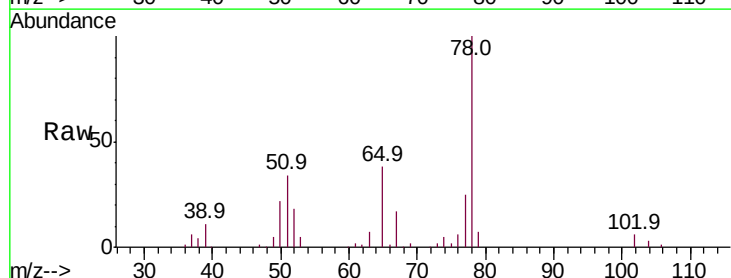


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

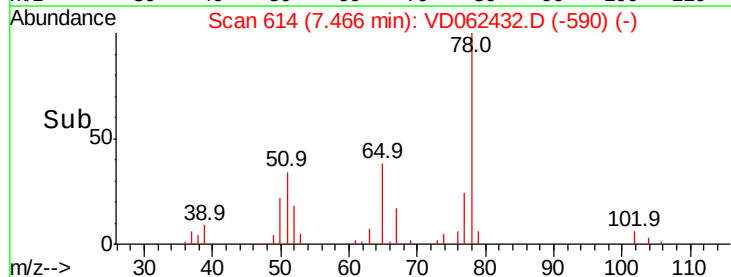
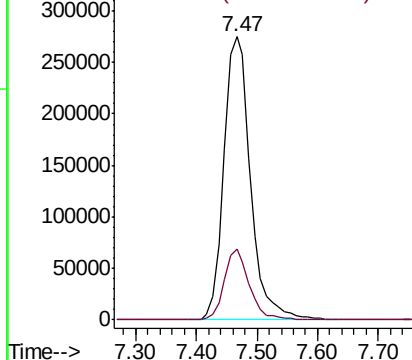


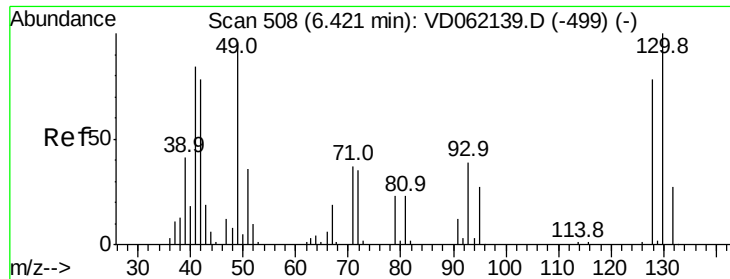
#40
Benzene
Concen: 47.657 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.7	29.5



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





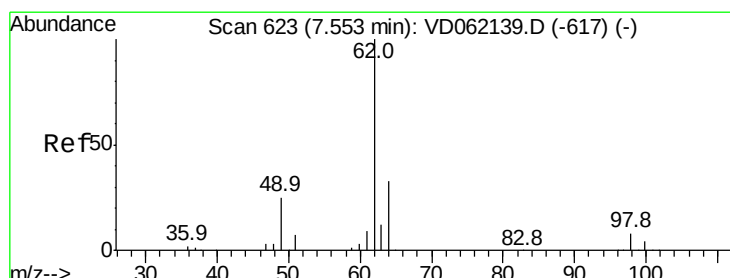
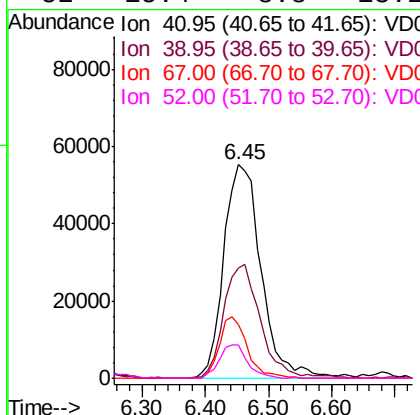
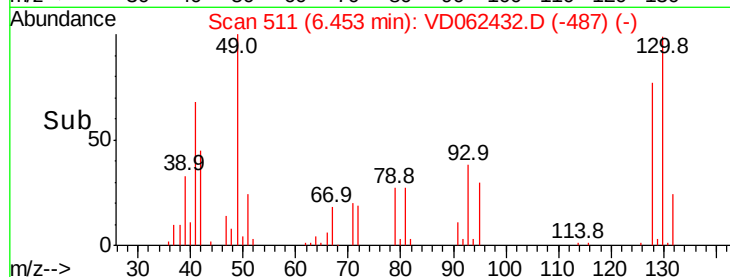
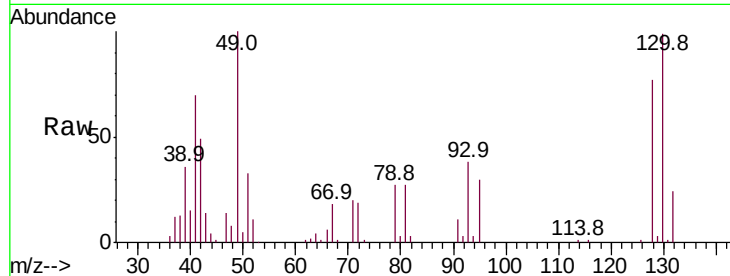
#41
Methacrylonitrile
Concen: 55.991 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.5	34.1	51.1#
67	25.3	23.8	35.6
52	15.4	8.8	13.2#

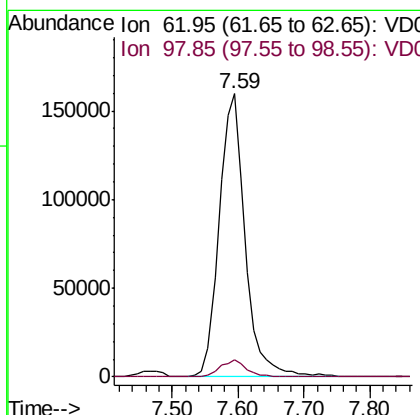
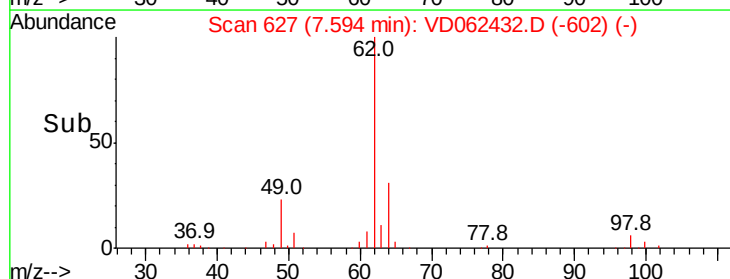
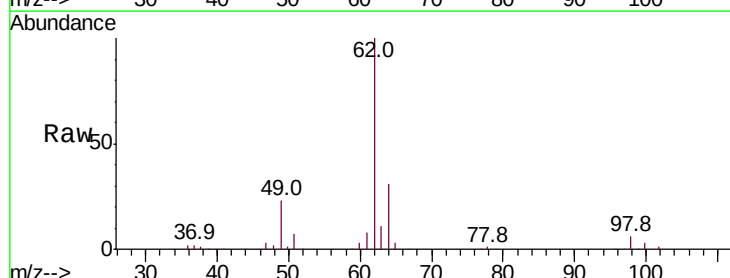
Manual Integrations
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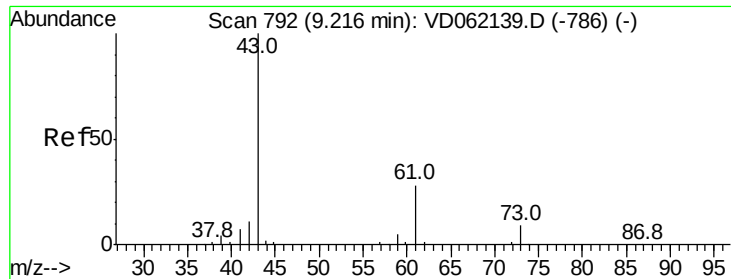
MMDadoda
5/22/2019 9:32:52 AM



#42
1,2-Dichloroethane
Concen: 58.708 ug/l
RT: 7.59 min Scan# 627
Delta R.T. 0.04 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.2	0.0	17.8





#43

Isopropyl Acetate

Concen: 52.056 ug/l

RT: 9.25 min Scan# 795

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

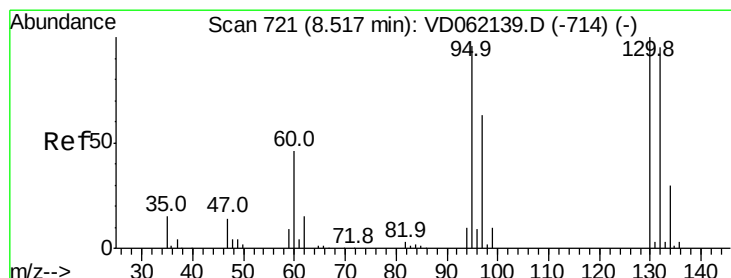
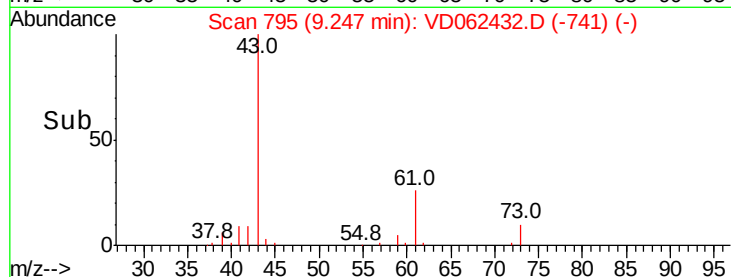
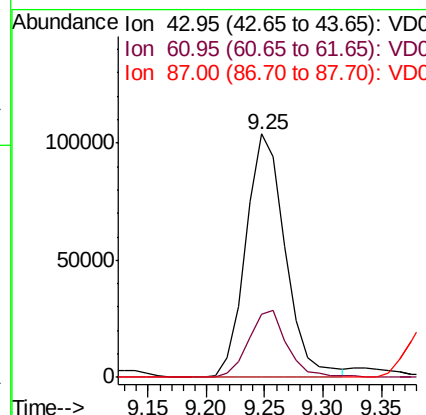
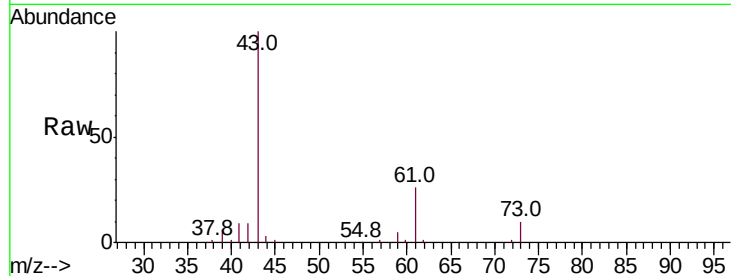
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	244281
Ion	Ratio	Lower	Upper
43	100		
61	26.1	25.1	37.7
87	0.0	0.0	0.0

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#44

Trichloroethene

Concen: 55.620 ug/l

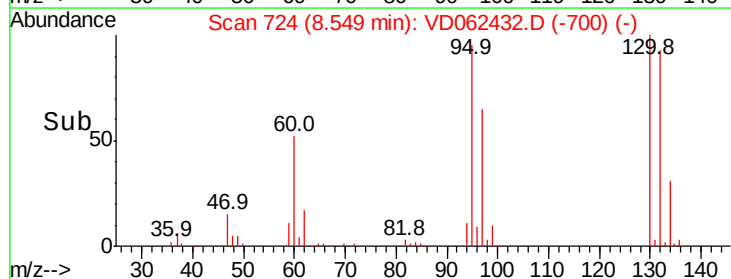
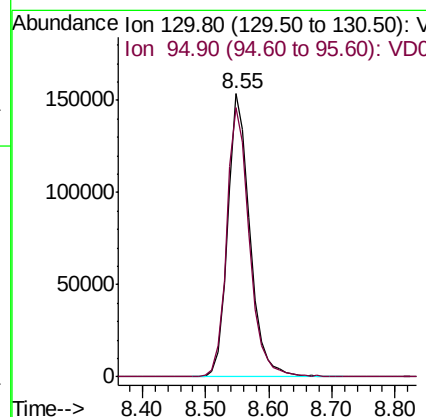
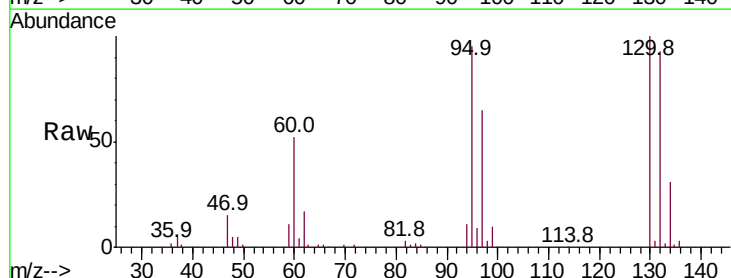
RT: 8.55 min Scan# 724

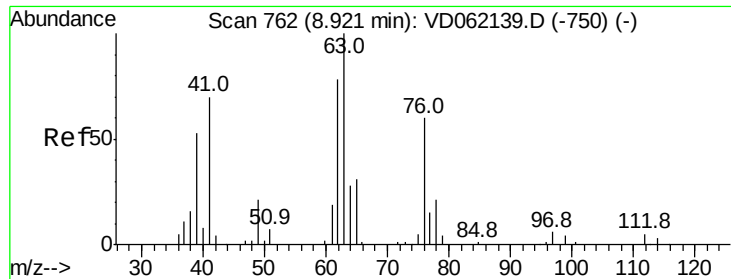
Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion:	130	Resp:	373410
Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	174.0





#45

1,2-Dichloropropane

Concen: 49.616 ug/l

RT: 8.95 min Scan# 765

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 216221

Ion Ratio Lower Upper

63 100

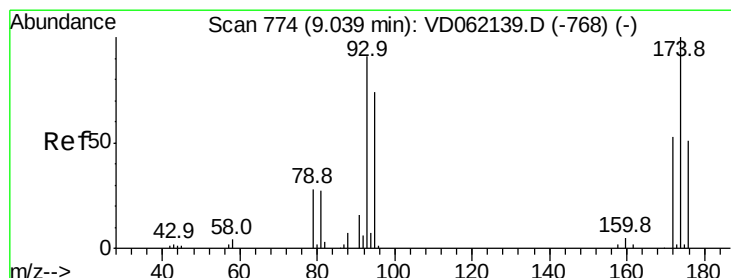
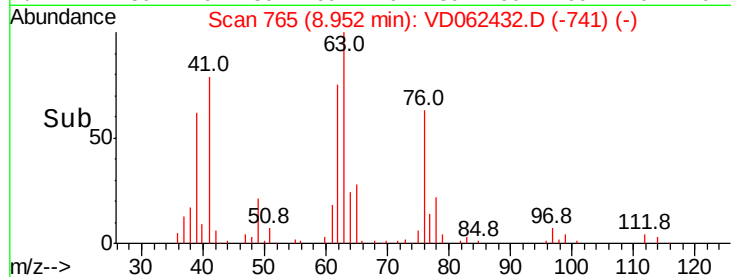
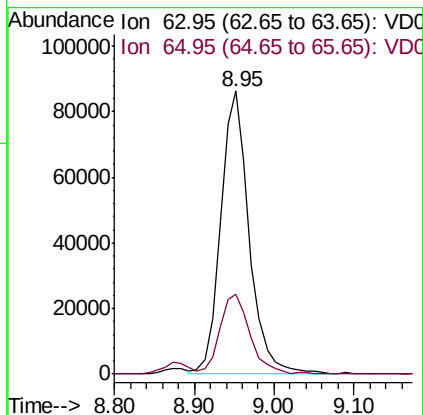
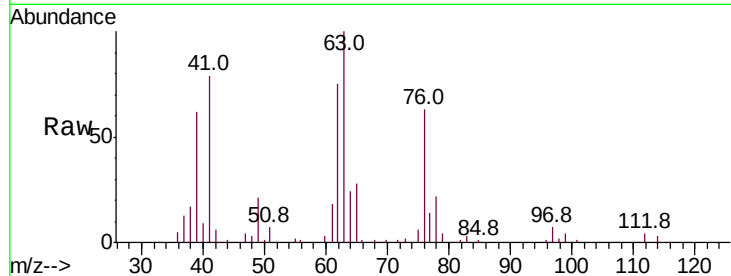
65 28.4 23.8 35.6

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#46

Dibromomethane

Concen: 53.455 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

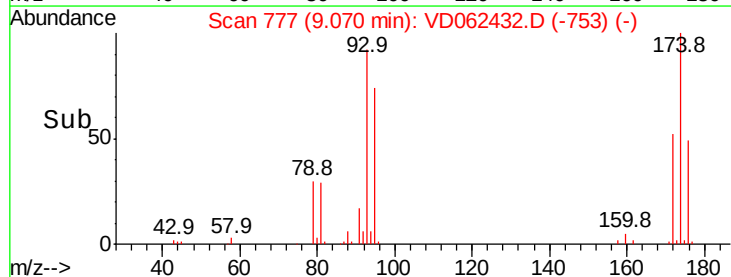
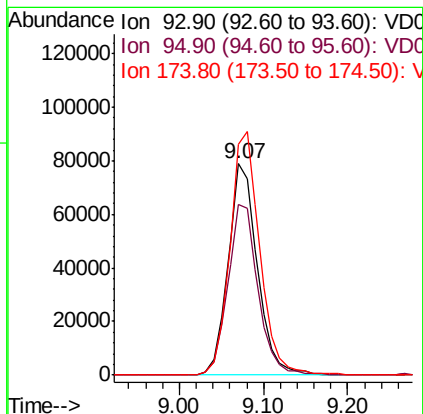
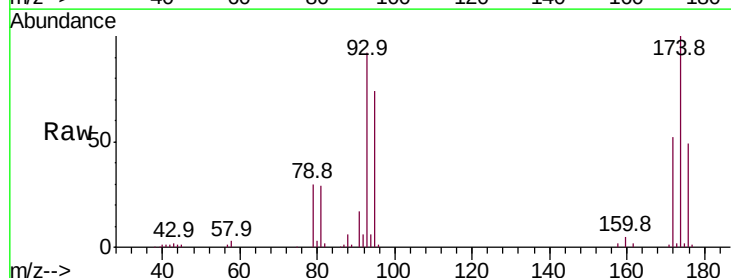
Tgt Ion: 93 Resp: 189432

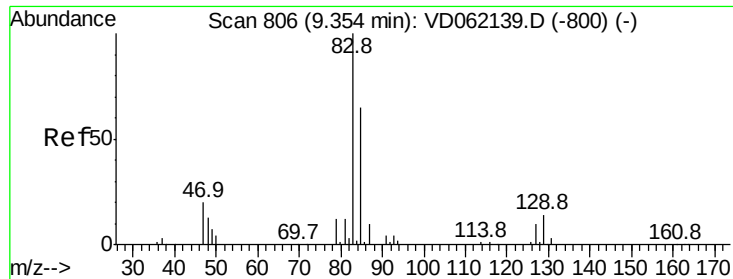
Ion Ratio Lower Upper

93 100

95 80.9 64.8 97.2

174 109.1 79.3 118.9





#47

Bromodichloromethane

Concen: 56.792 ug/l

RT: 9.39 min Scan# 809

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

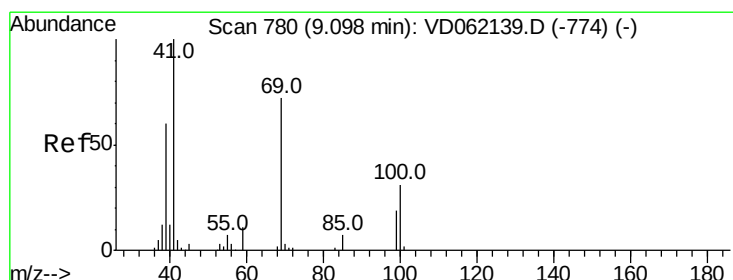
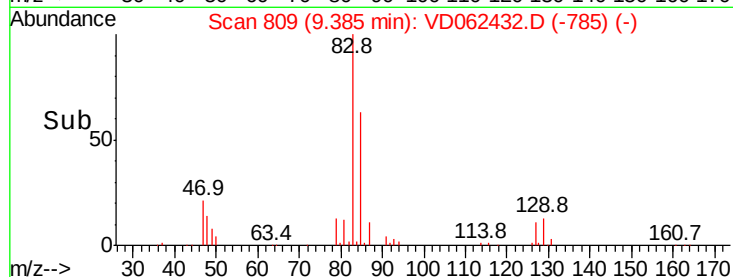
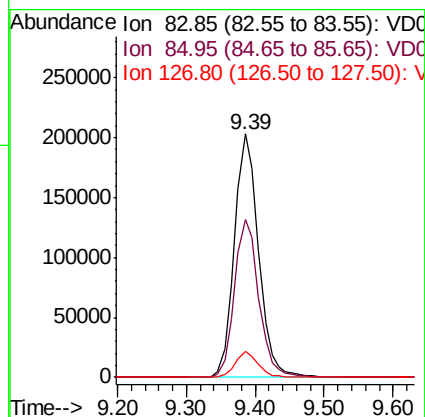
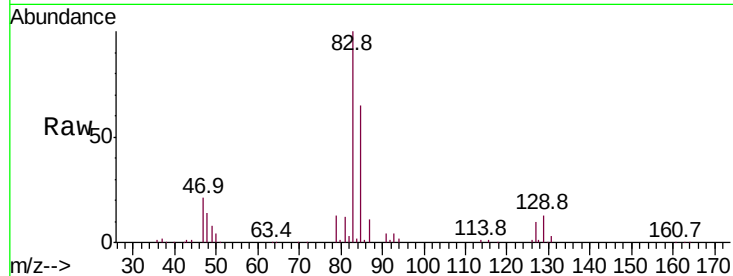
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	492281
Ion Ratio	Lower	Upper	
83	100		
85	65.0	50.9	76.3
127	10.5	8.1	12.1

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#48

Methyl methacrylate

Concen: 55.122 ug/l

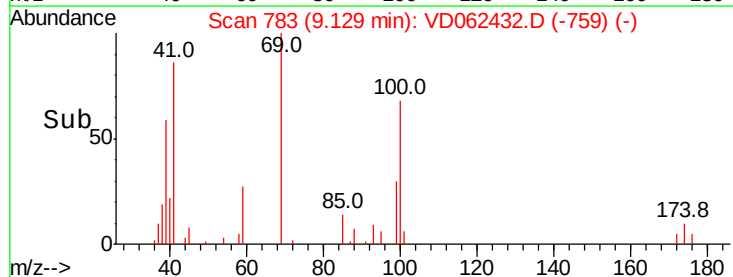
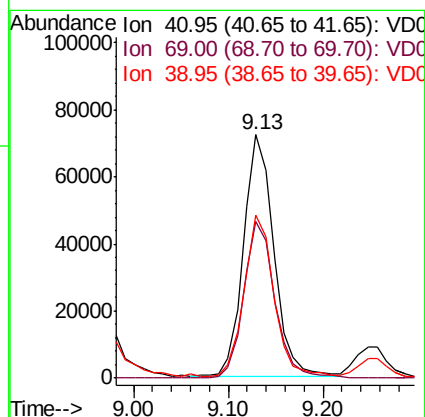
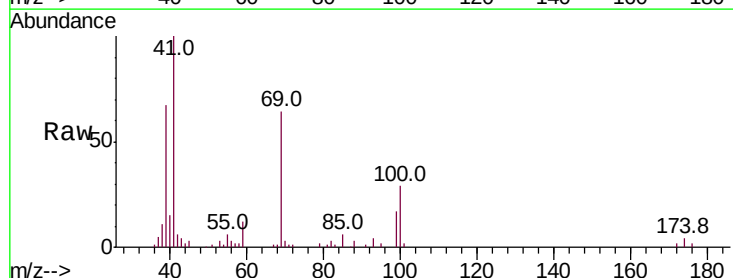
RT: 9.13 min Scan# 783

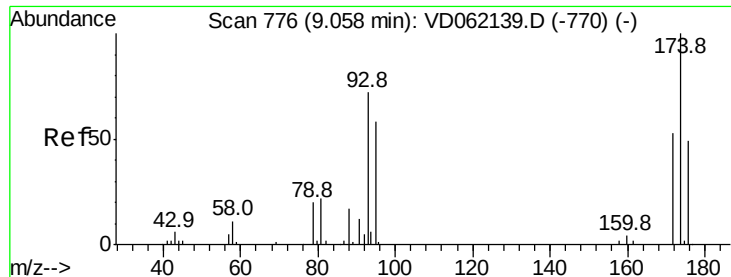
Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion:	41	Resp:	159328
Ion Ratio	Lower	Upper	
41	100		
69	64.1	64.2	96.2#
39	66.7	46.8	70.2





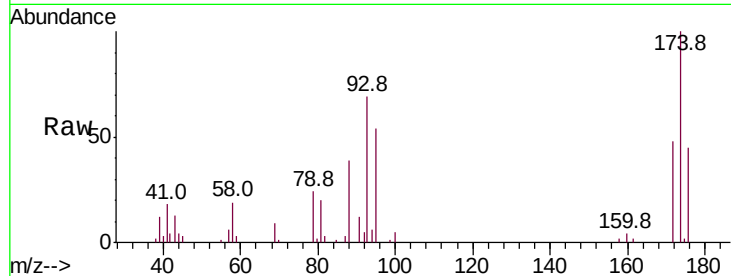
#49
1,4-Dioxane
Concen: 1076.709 ug/l
RT: 9.10 min Scan# 780
Delta R.T. 0.04 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

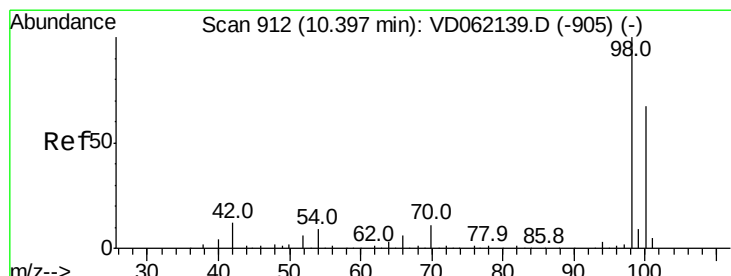
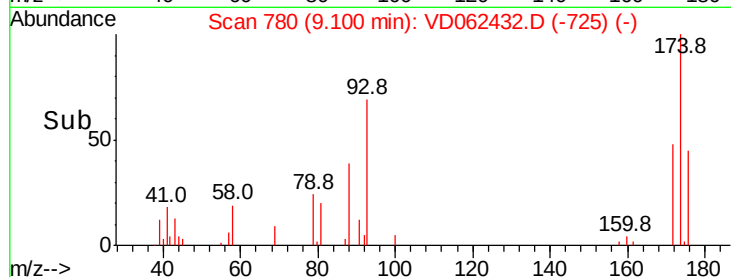
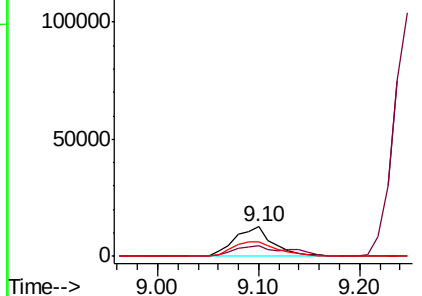
Tot Ion	Ratio	Lower	Upper
88	100		
43	34.0	23.4	35.0
58	48.0	44.0	66.0

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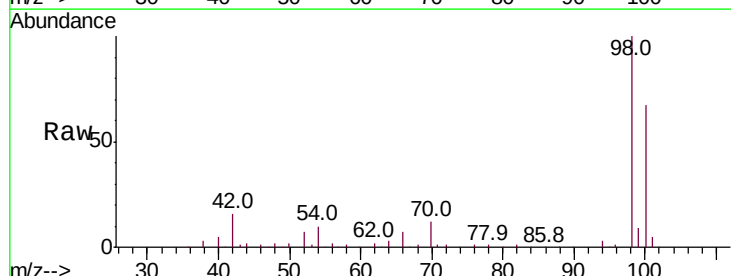


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

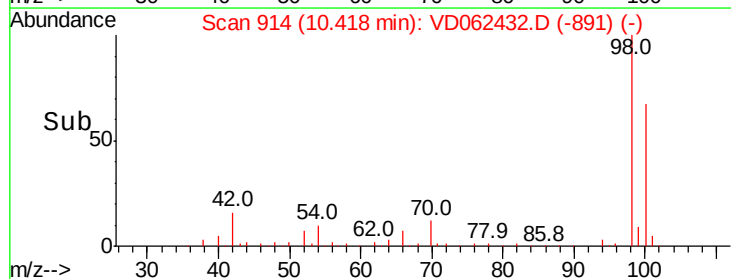
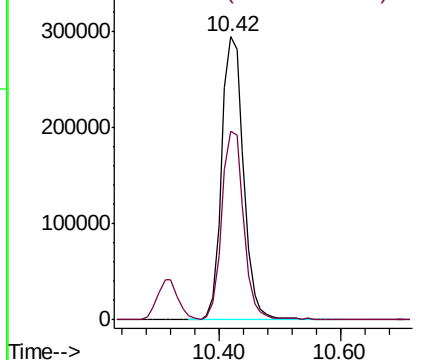


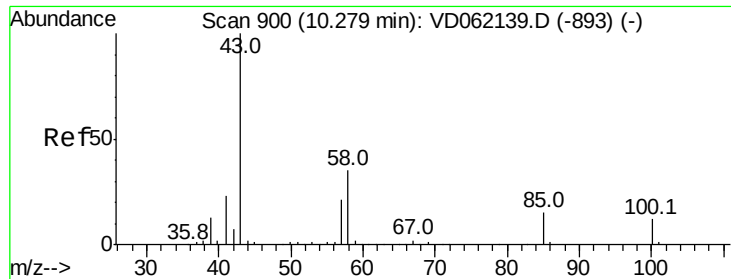
#50
Toluene-d8
Concen: 38.723 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.8	80.8



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





#51

4-Methyl-2-Pentanone

Concen: 270.755 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 816719

Ion Ratio Lower Upper

43 100

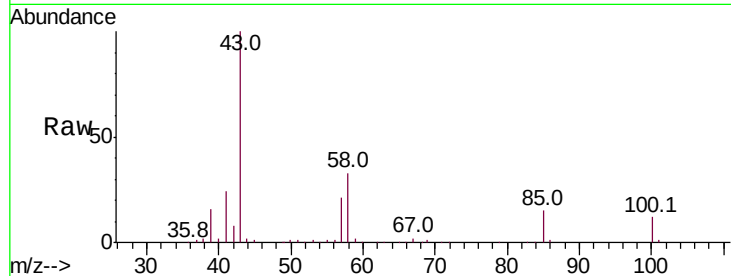
58 33.2 30.4 45.6

Manual Integrations

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Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.31

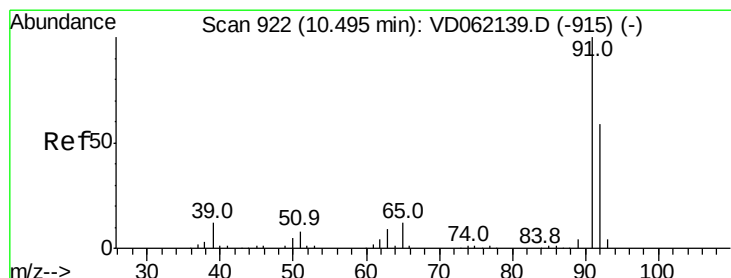
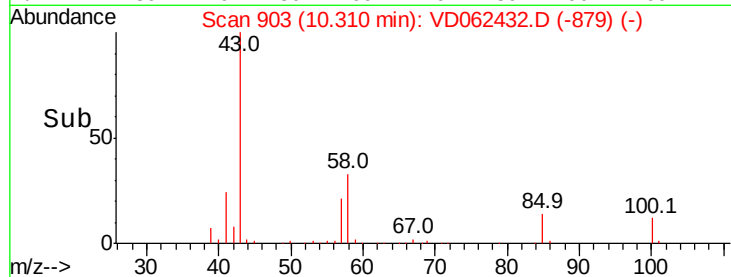
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 46.698 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD062432.D

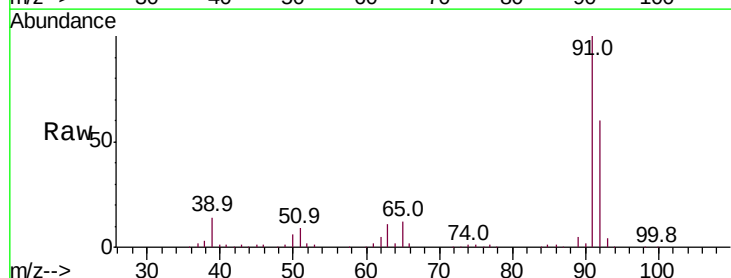
Acq: 17 May 2019 11:28

Tgt Ion: 92 Resp: 535308

Ion Ratio Lower Upper

92 100

91 165.6 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

10.52

400000

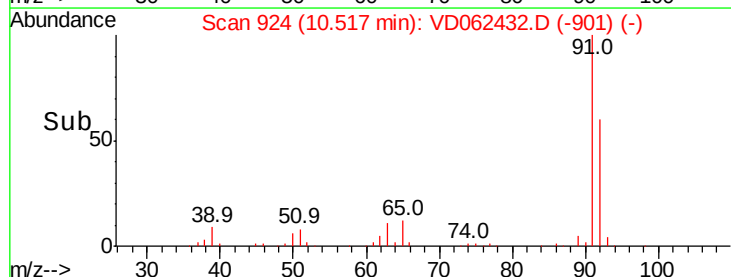
300000

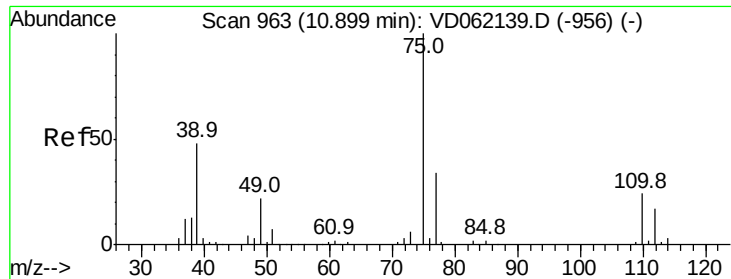
200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 58.312 ug/l

RT: 10.92 min Scan# 965

Delta R.T. 0.02 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 436856

Ion Ratio Lower Upper

75 100

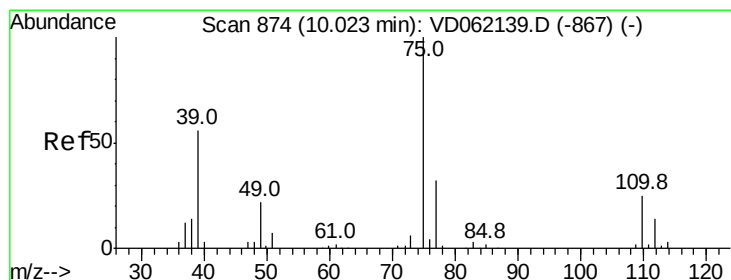
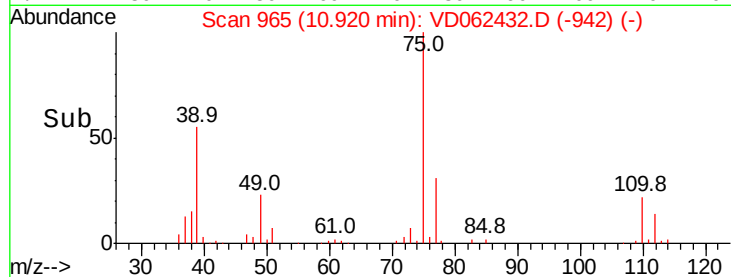
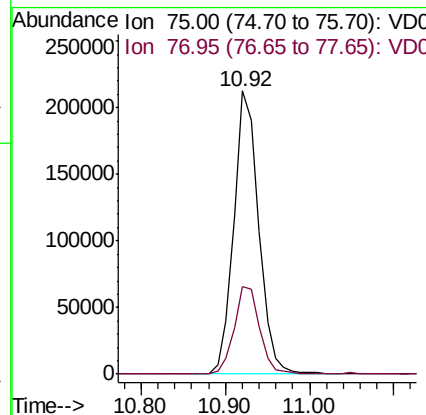
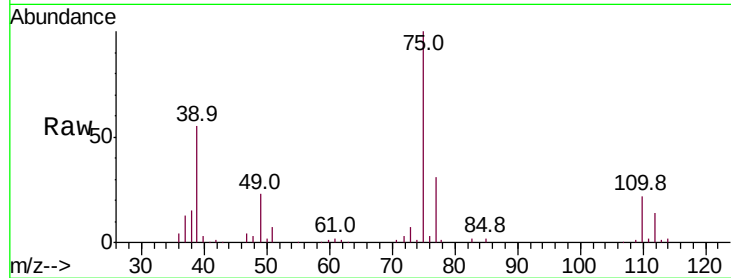
77 30.7 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 57.159 ug/l

RT: 10.05 min Scan# 877

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

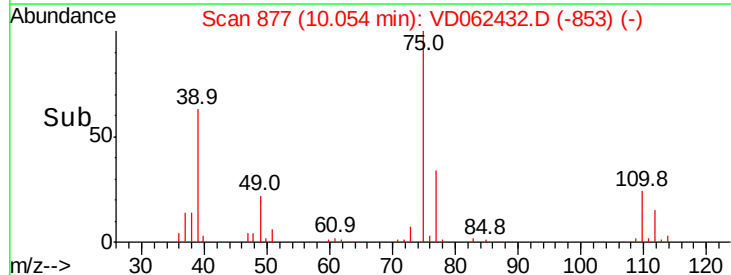
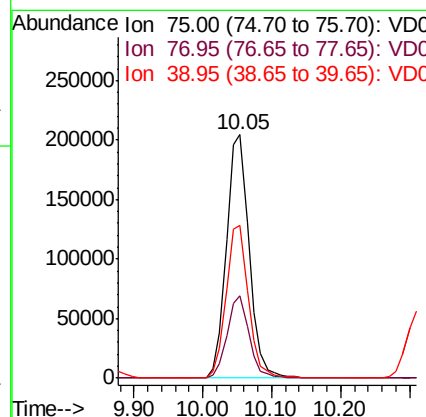
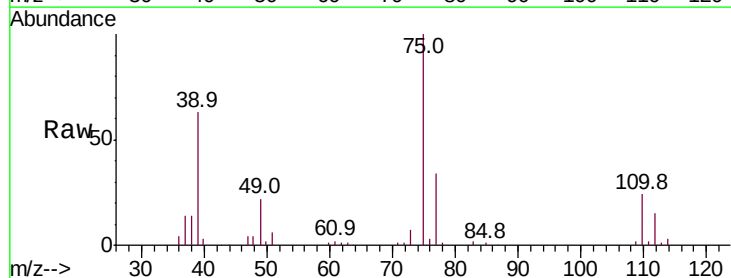
Tgt Ion: 75 Resp: 467153

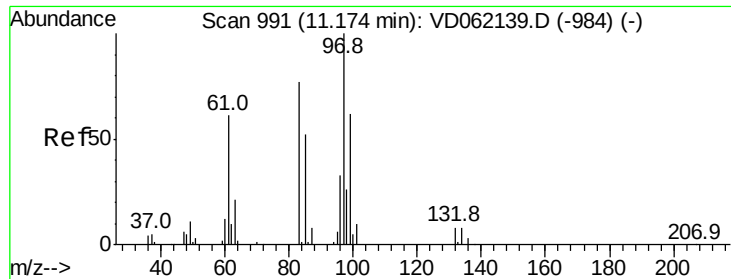
Ion Ratio Lower Upper

75 100

77 34.0 25.5 38.3

39 62.9 39.4 59.2#





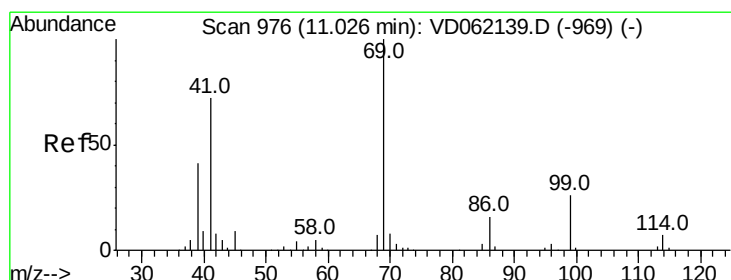
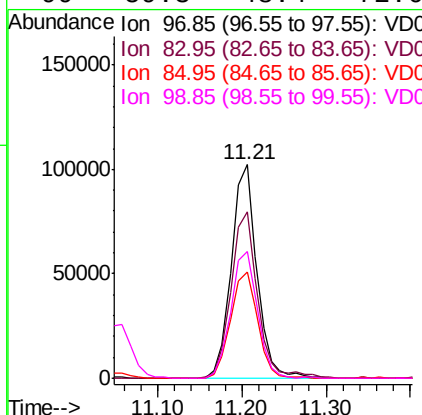
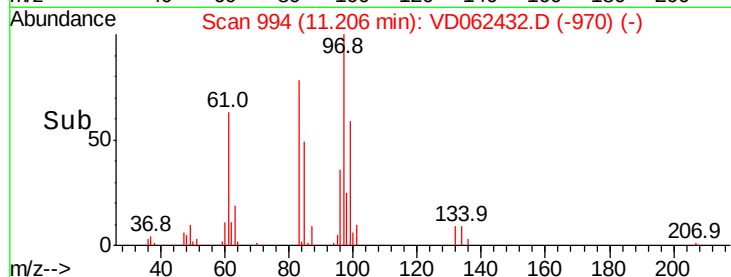
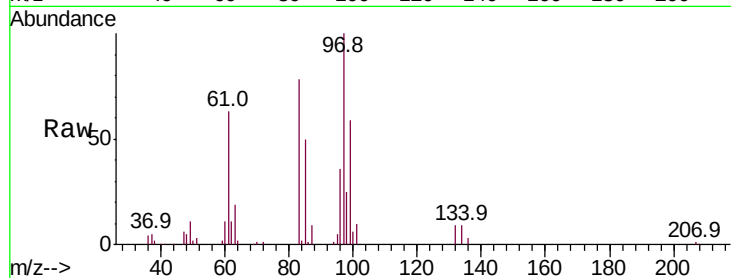
#55
1,1,2-Trichloroethane
Concen: 53.359 ug/l
RT: 11.21 min Scan# 994
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
97	100	216422		
83	77.8	65.7	98.5	
85	49.5	45.6	68.4	
99	59.3	48.4	72.6	

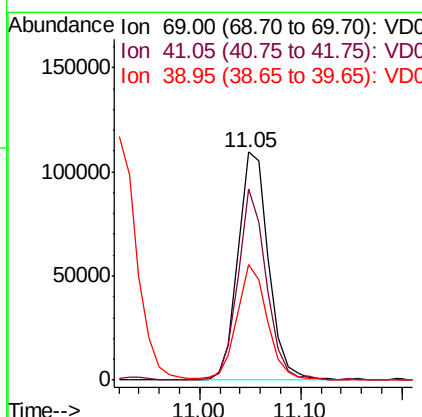
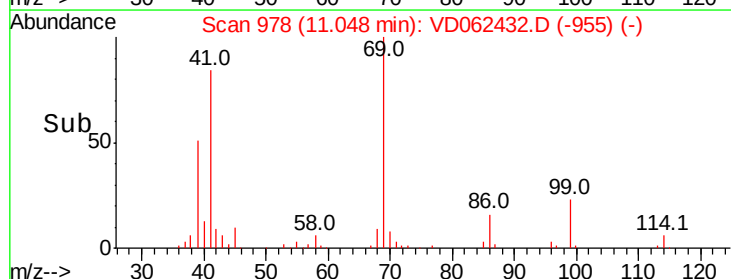
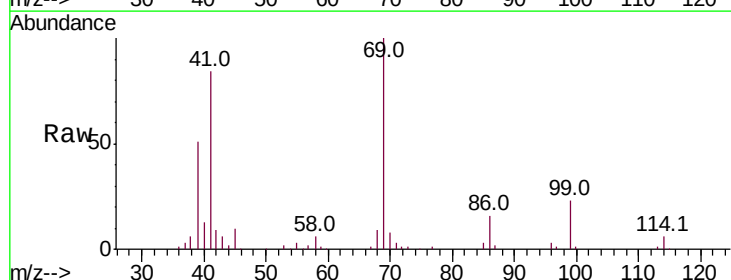
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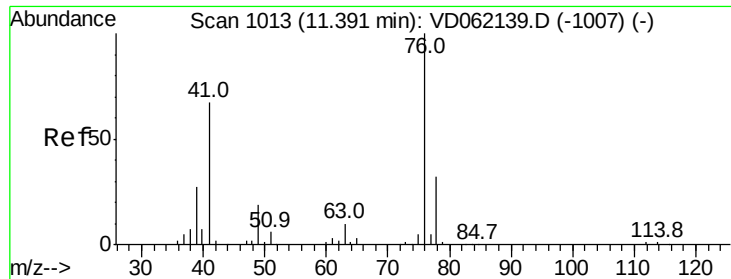
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#56
Ethyl methacrylate
Concen: 54.682 ug/l
RT: 11.05 min Scan# 978
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	230468		
41	83.6	56.3	84.5	
39	51.0	29.4	44.2#	





#57

1,3-Dichloropropane

Concen: 51.300 ug/l

RT: 11.42 min Scan# 1016

Delta R.T. 0.03 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

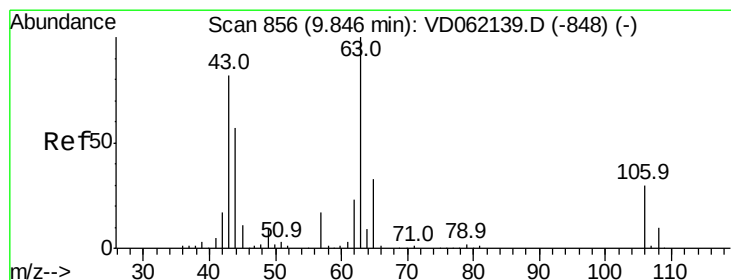
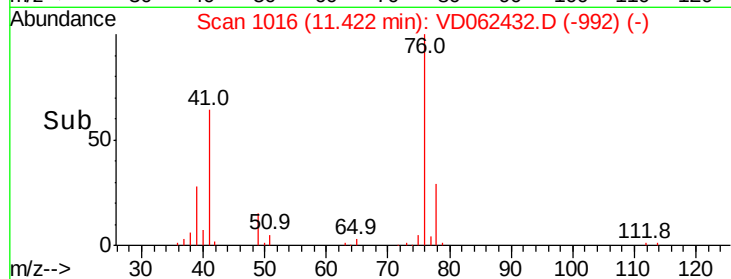
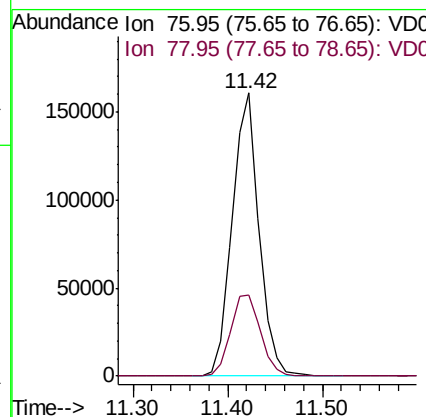
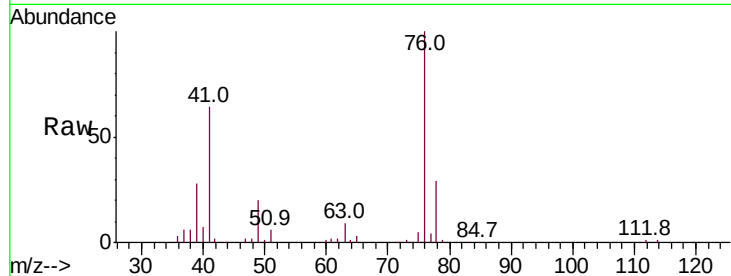
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 314342

Ion	Ratio	Lower	Upper
76	100		
78	28.9	26.2	39.2

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5/22/2019 9:32:52 AM



#58

2-Chloroethyl Vinyl ether

Concen: 270.167 ug/l

RT: 9.87 min Scan# 858

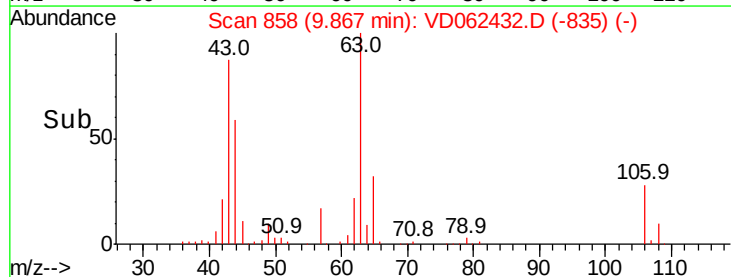
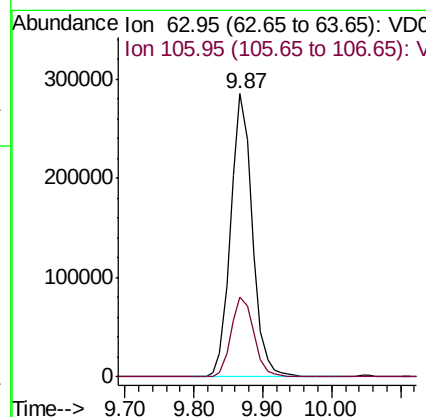
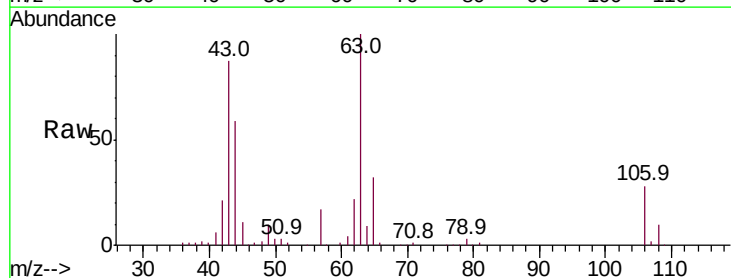
Delta R.T. 0.02 min

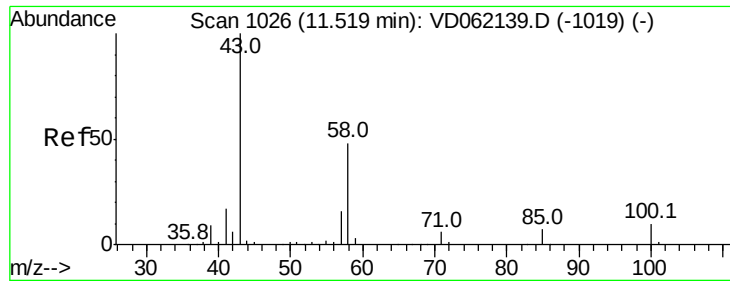
Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion: 63 Resp: 621985

Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.6	34.0





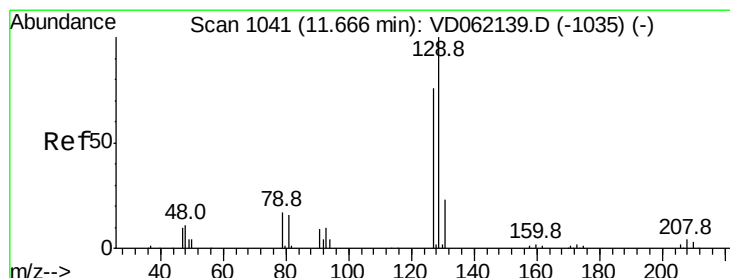
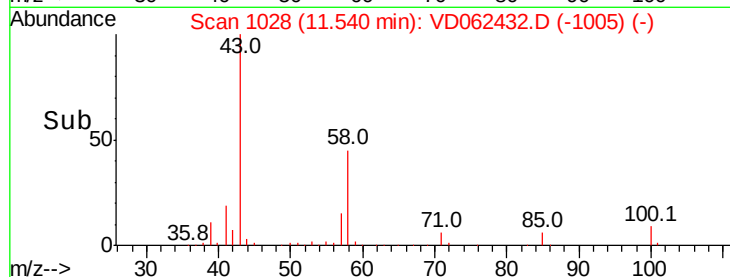
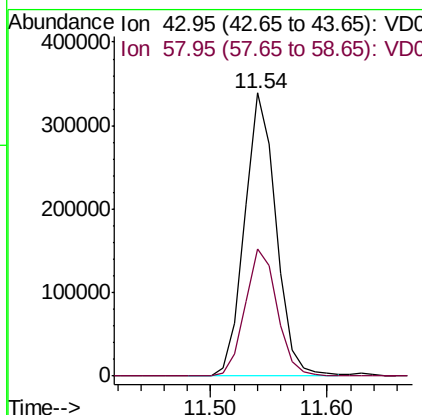
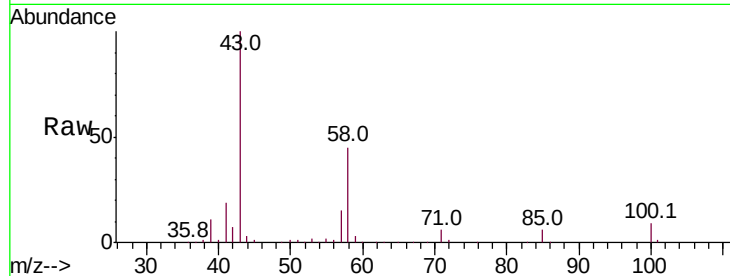
#59
2-Hexanone
Concen: 284.303 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 632074
Ion Ratio Lower Upper
43 100
58 45.0 25.4 76.4

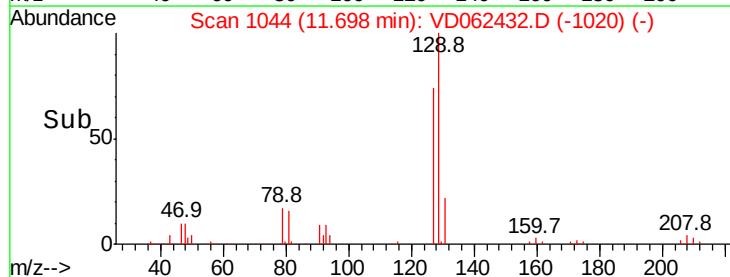
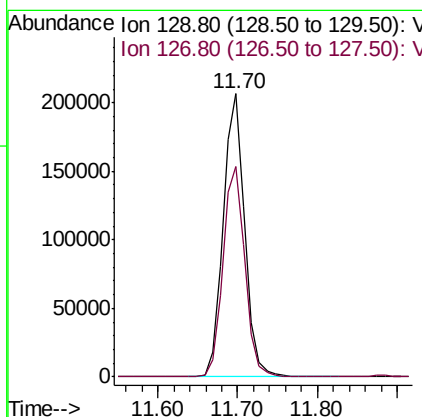
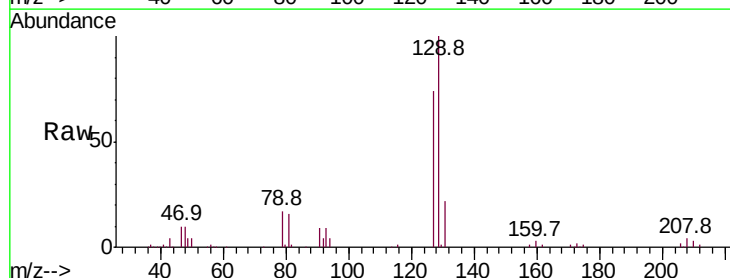
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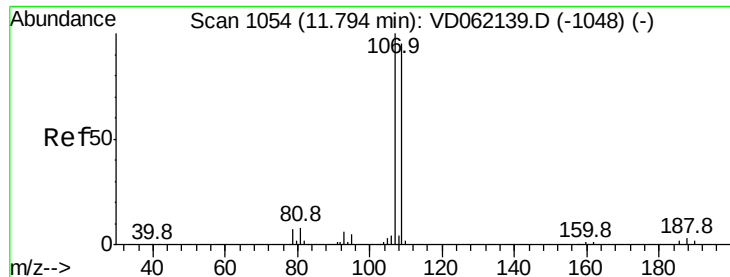
MMDadoda
5/22/2019 9:32:52 AM



#60
Dibromochloromethane
Concen: 55.956 ug/l
RT: 11.70 min Scan# 1044
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion: 129 Resp: 392223
Ion Ratio Lower Upper
129 100
127 74.4 38.0 113.9





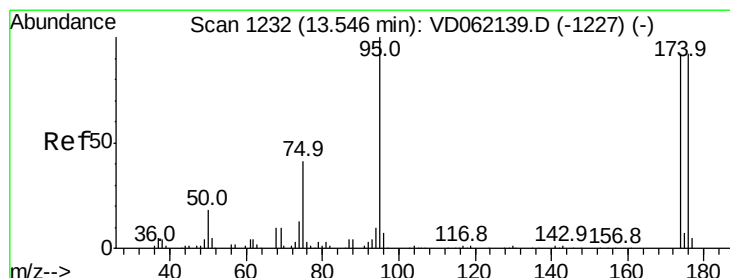
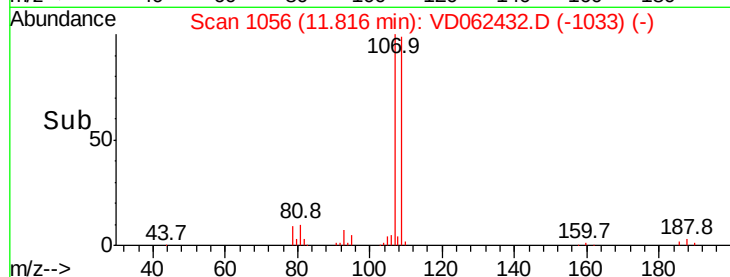
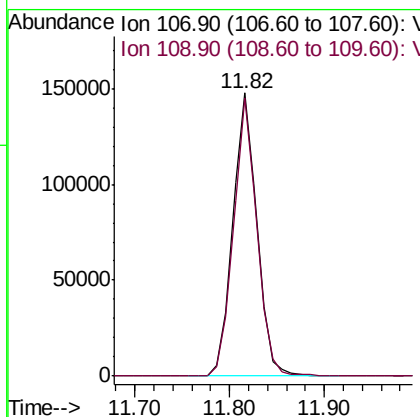
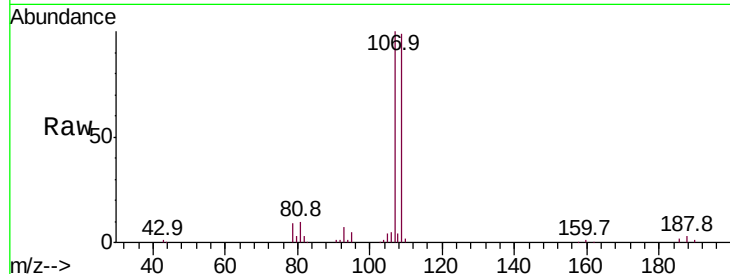
#61
 1,2-Dibromoethane
 Concen: 52.459 ug/l
 RT: 11.82 min Scan# 1056
 Delta R.T. 0.02 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	258680		
109	98.5	78.3	117.5	

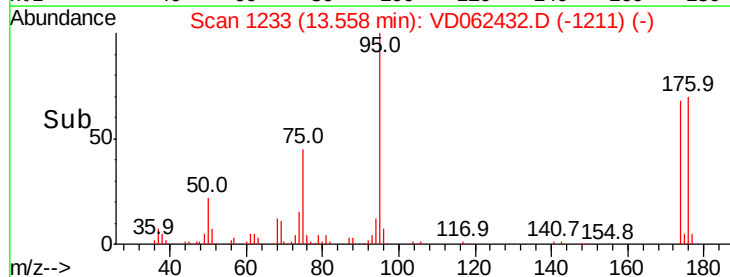
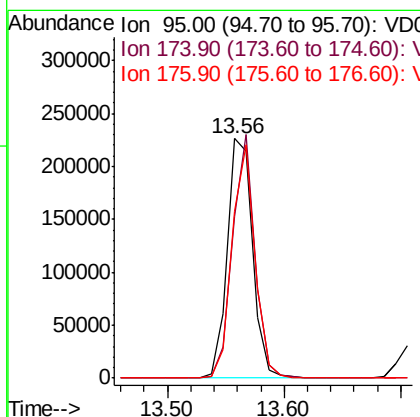
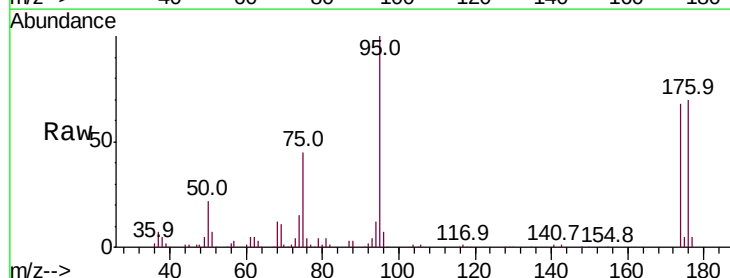
Manual Integrations
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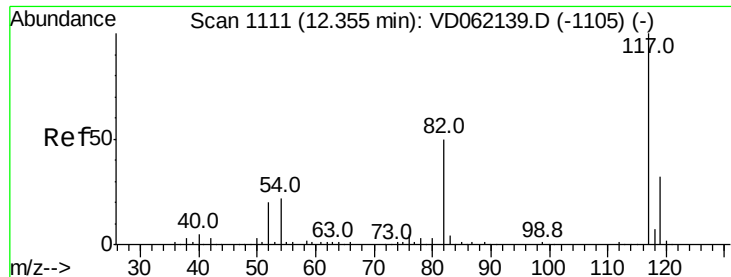
MMDadoda
 5/22/2019 9:32:52 AM



#62
 4-Bromofluorobenzene
 Concen: 44.446 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	339763		
174	67.6	0.0	181.8	
176	69.6	0.0	174.4	





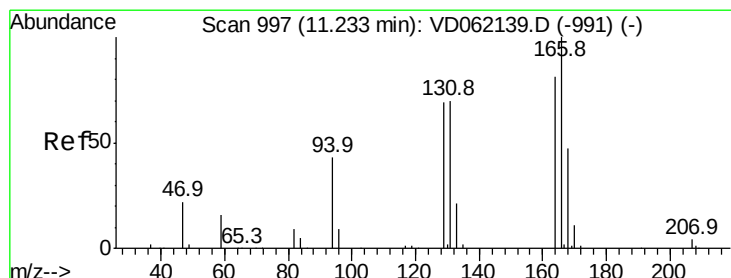
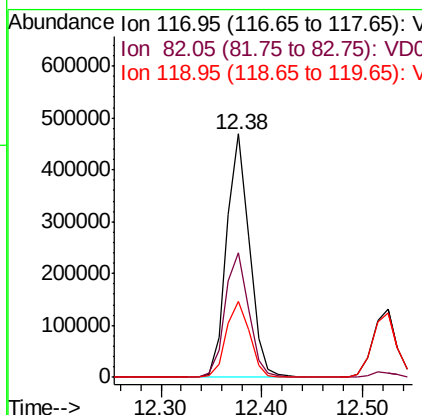
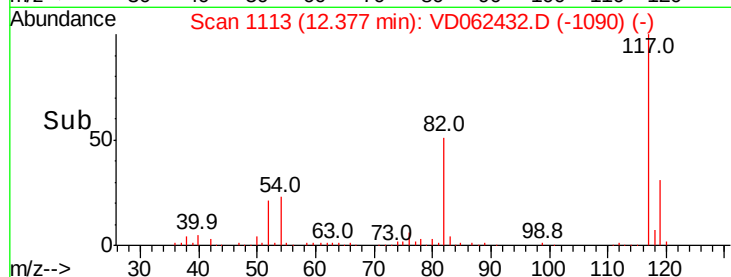
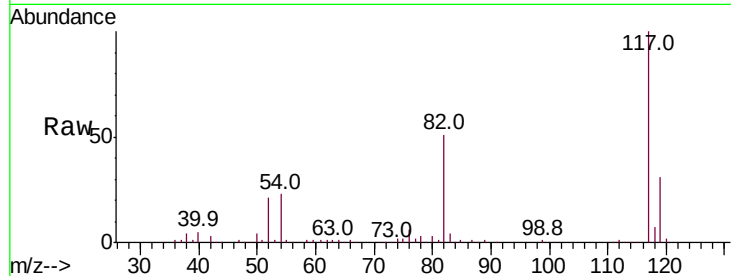
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.0	36.2	54.2
119	31.4	26.2	39.4

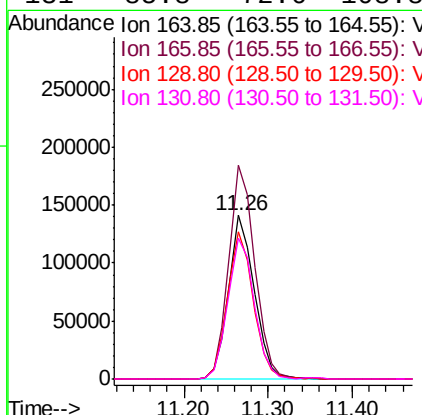
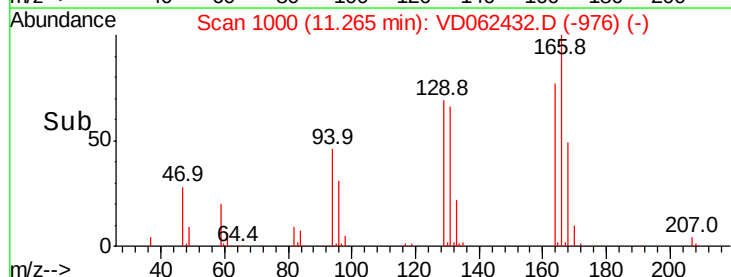
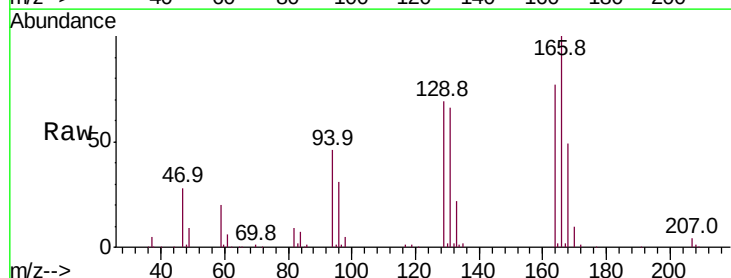
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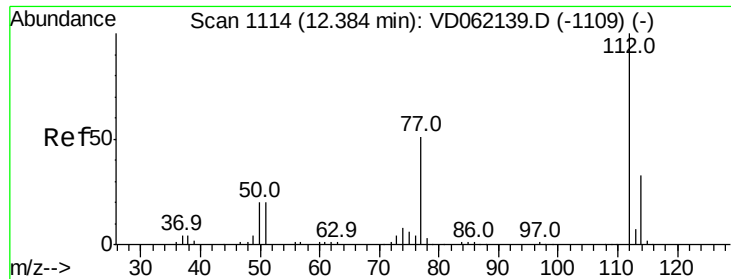
MMDadoda
5/22/2019 9:32:52 AM



#64
Tetrachloroethene
Concen: 52.694 ug/l
RT: 11.26 min Scan# 1000
Delta R.T. 0.03 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.5	101.5	152.3
129	89.6	74.6	112.0
131	85.8	72.6	108.8





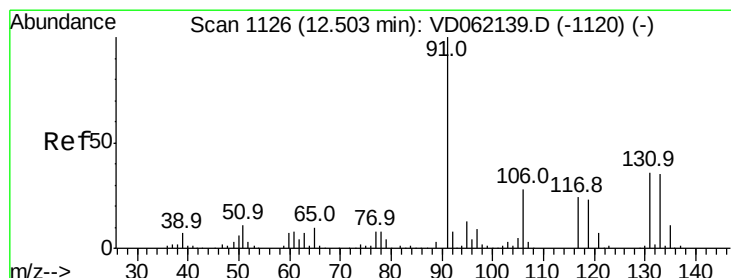
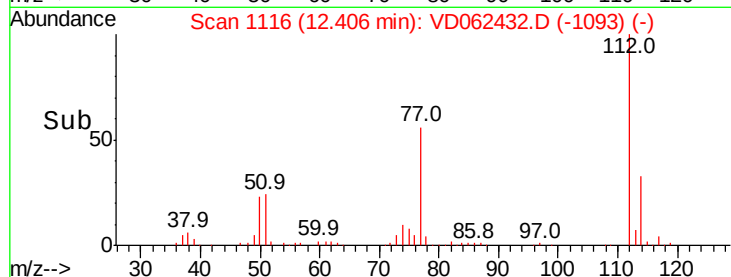
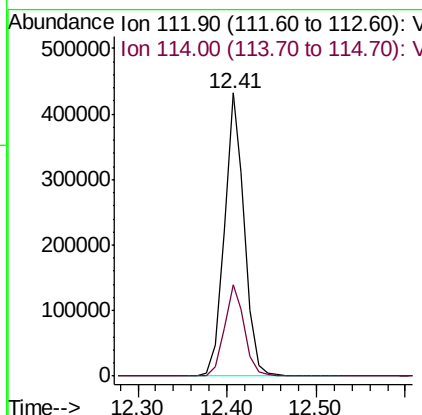
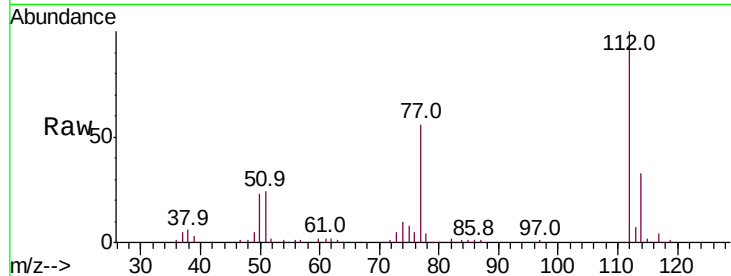
#65
Chlorobenzene
Concen: 49.695 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 677725
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.8

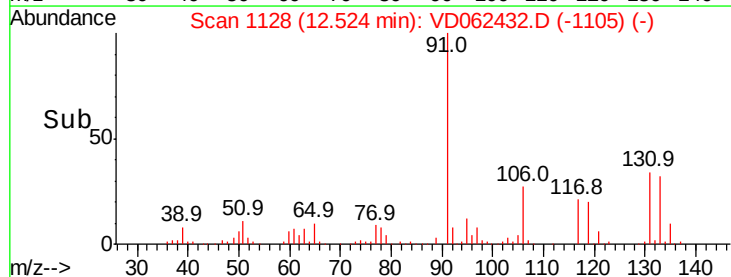
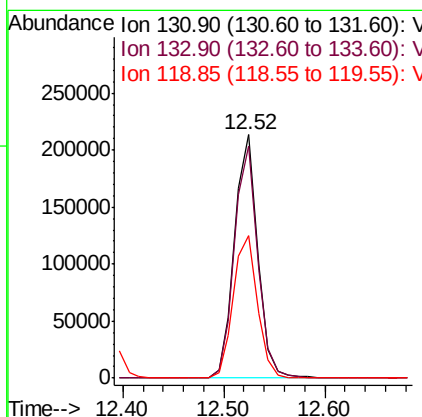
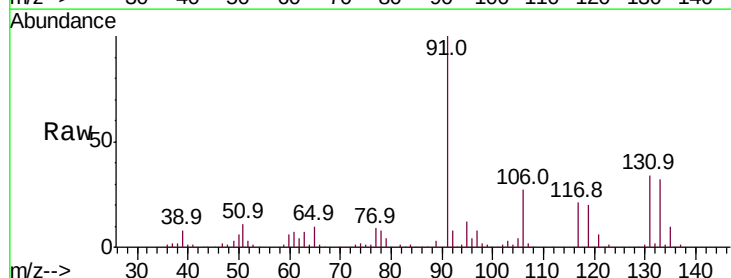
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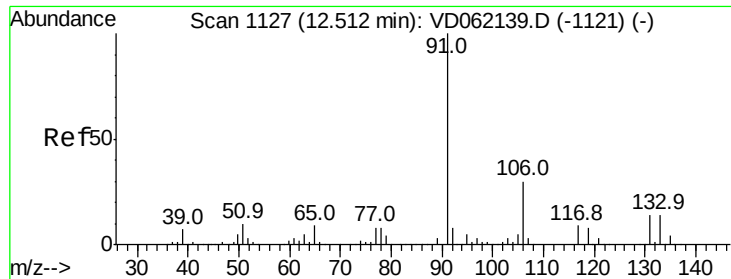
MMDadoda
5/22/2019 9:32:52 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 57.246 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion:131 Resp: 339773
Ion Ratio Lower Upper
131 100
133 95.1 48.6 145.8
119 58.4 34.7 104.1





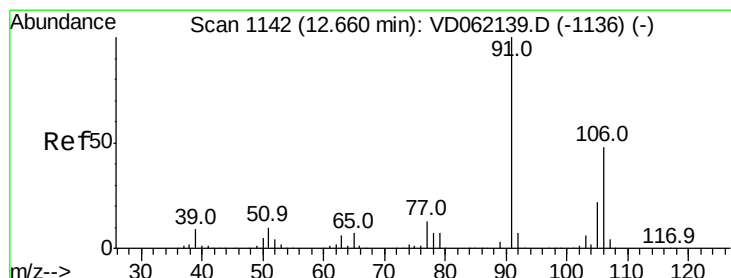
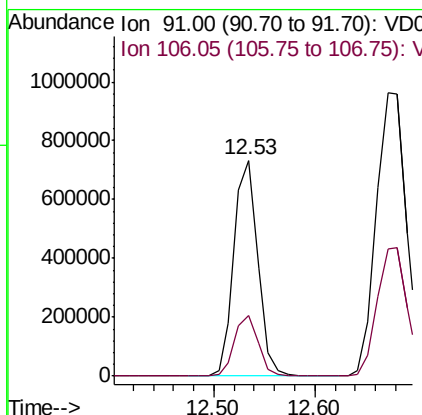
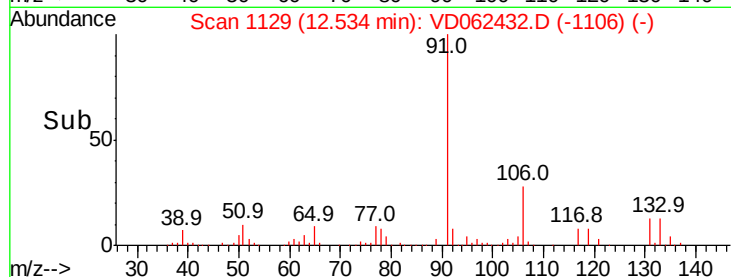
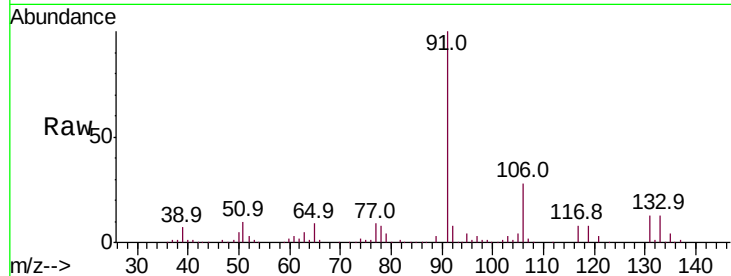
#67
Ethyl Benzene
Concen: 52.897 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1207716
Ion Ratio Lower Upper
91 100
106 28.3 24.7 37.1

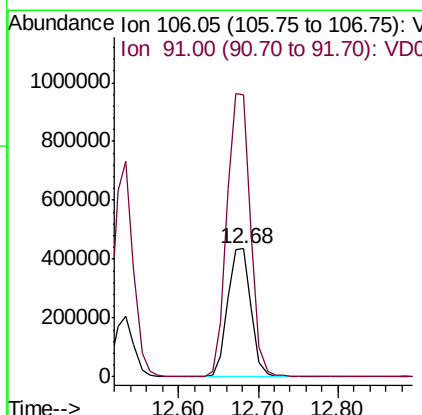
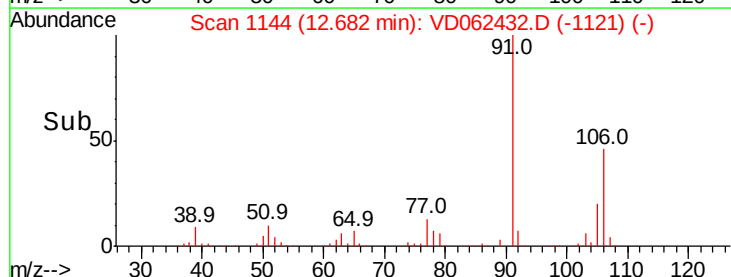
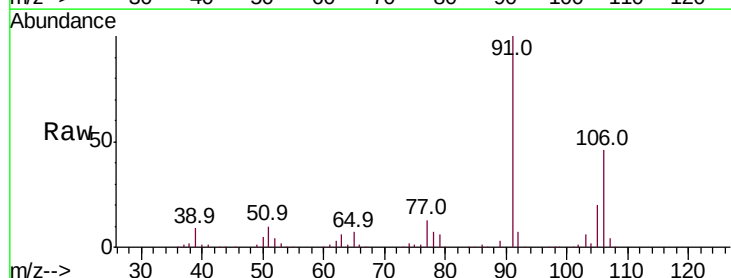
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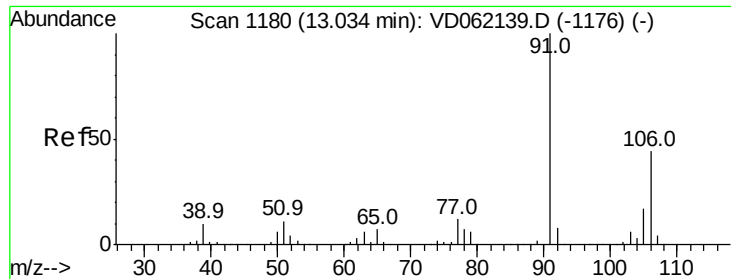
MMDadoda
5/22/2019 9:32:52 AM



#68
m/p-Xylenes
Concen: 108.273 ug/l
RT: 12.68 min Scan# 1144
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion:106 Resp: 899382
Ion Ratio Lower Upper
106 100
91 219.7 164.0 246.0





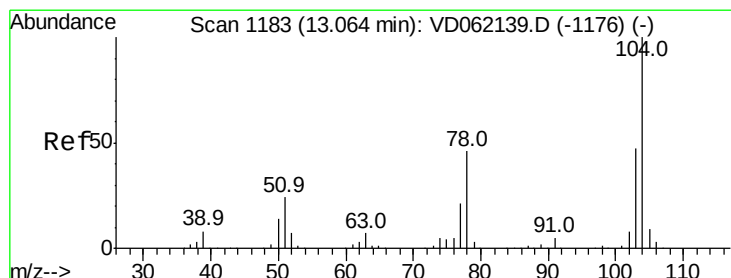
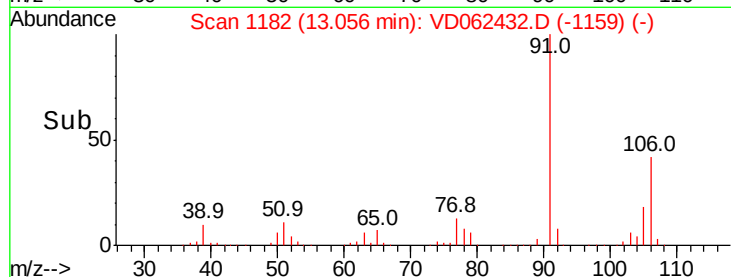
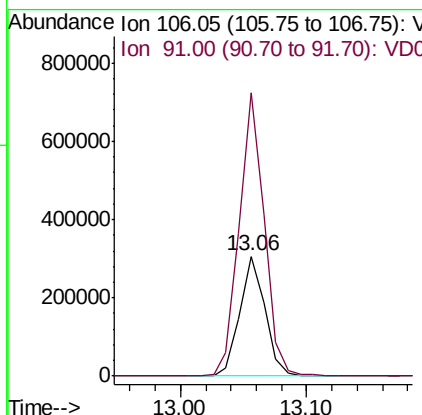
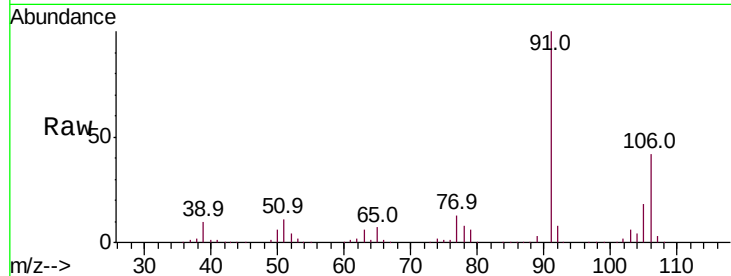
#69
o-Xylene
Concen: 54.992 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 424682
Ion Ratio Lower Upper
106 100
91 235.9 106.7 319.9

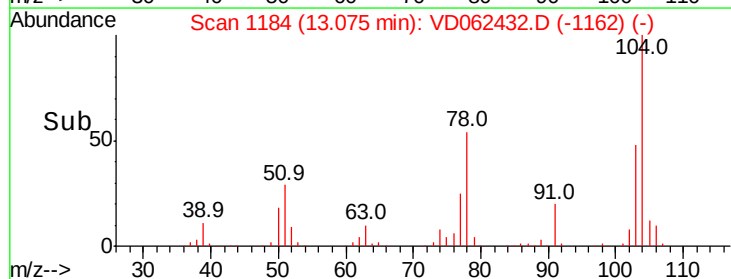
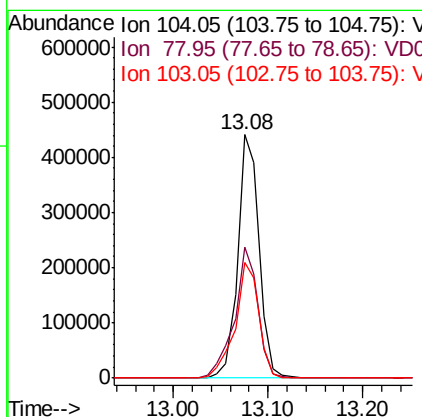
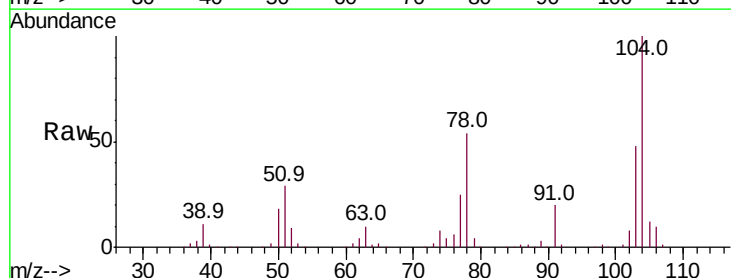
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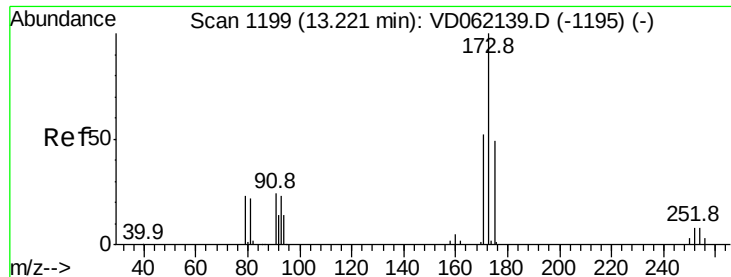
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#70
Styrene
Concen: 52.177 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion:104 Resp: 682591
Ion Ratio Lower Upper
104 100
78 53.8 35.4 53.2#
103 47.6 37.5 56.3





#71

Bromoform

Concen: 59.400 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 245286

Ion Ratio Lower Upper

173 100

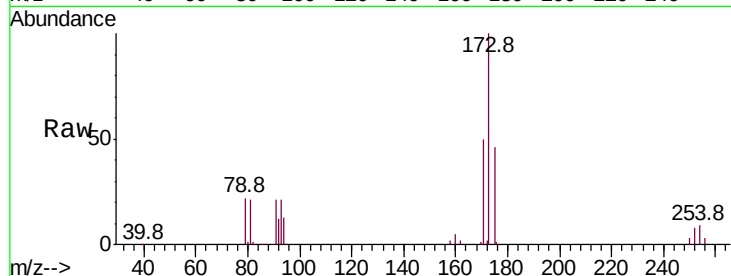
175 46.3 24.4 73.4

254 8.7 5.4 8.2#

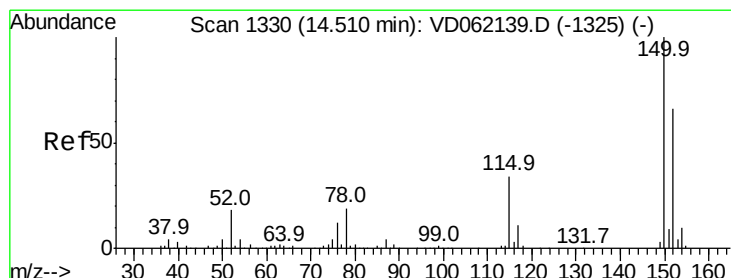
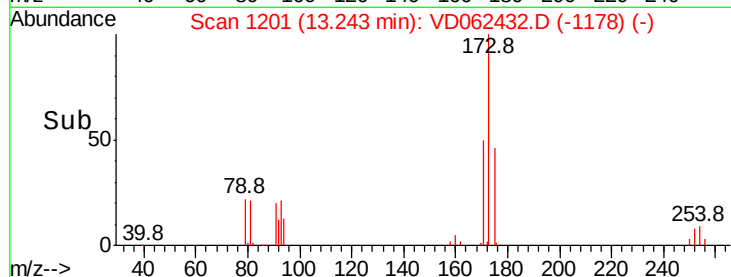
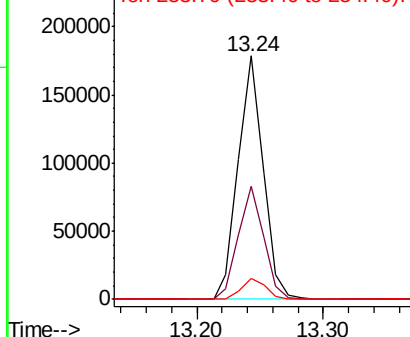
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Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

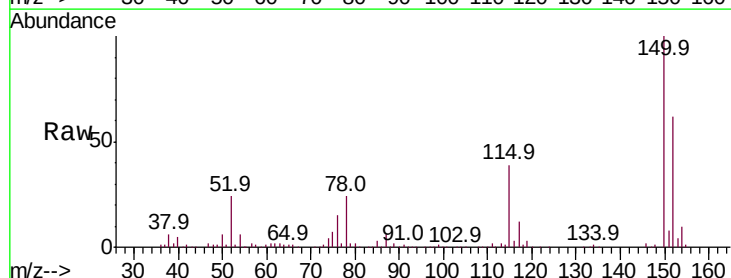
Tgt Ion:152 Resp: 385174

Ion Ratio Lower Upper

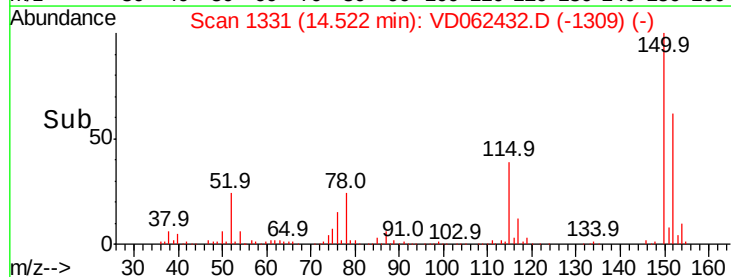
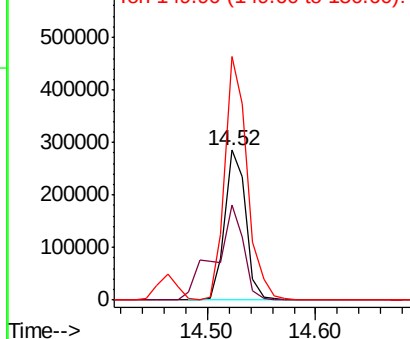
152 100

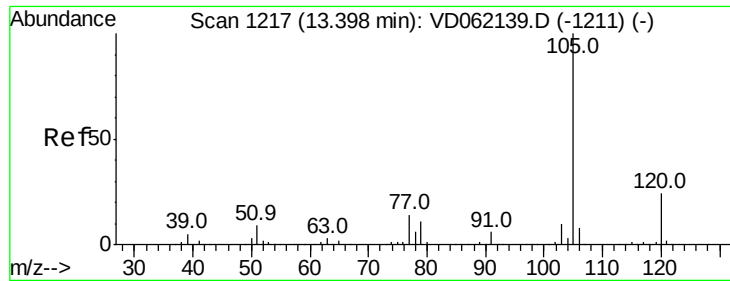
115 63.1 30.9 92.7

150 162.2 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: 56.981 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1315604

Ion Ratio Lower Upper

105 100

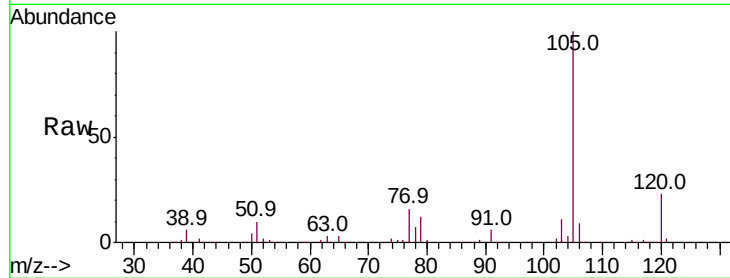
120 22.5 12.0 36.1

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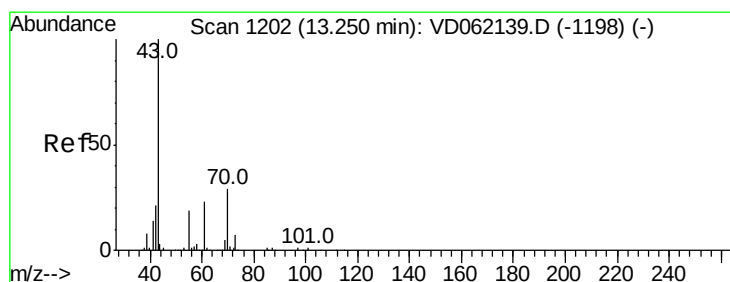
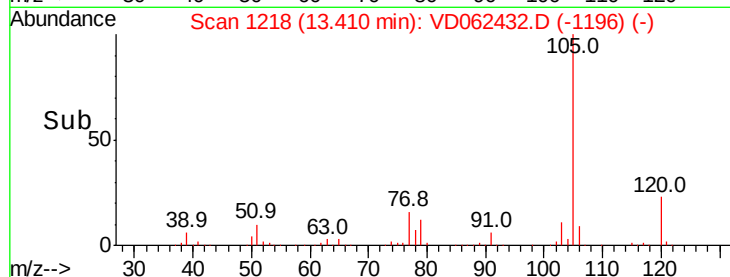
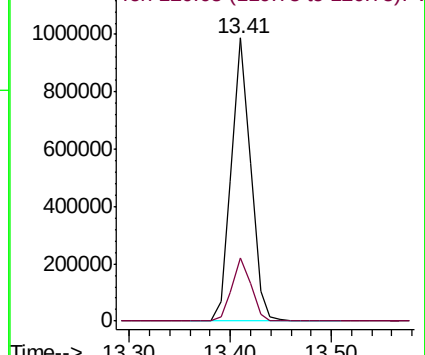
MMDadoda

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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 53.166 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion: 43 Resp: 321834

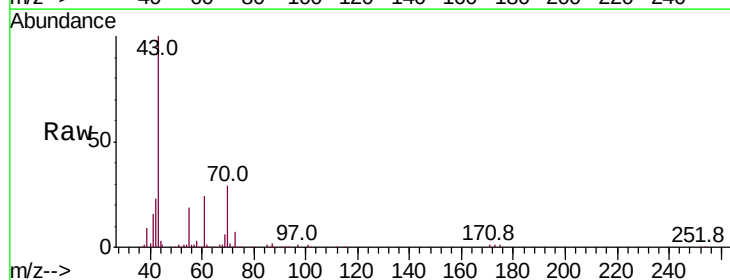
Ion Ratio Lower Upper

43 100

70 28.6 24.2 36.4

55 19.1 16.0 24.0

61 24.4 21.6 32.4

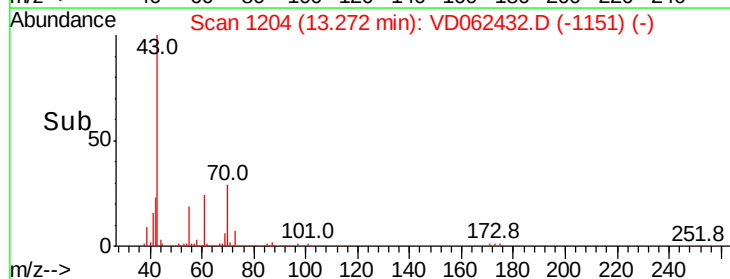
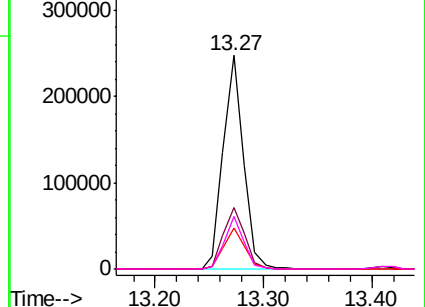


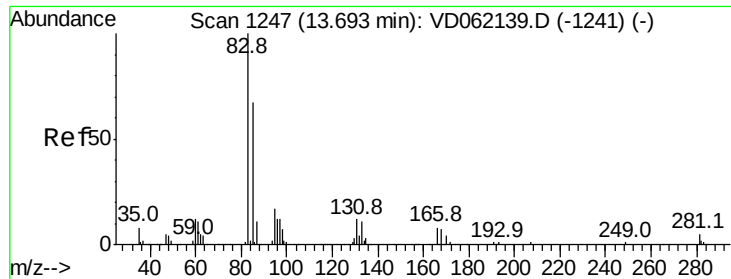
Abundance Ion 42.95 (42.65 to 43.65): VDC

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: 51.281 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

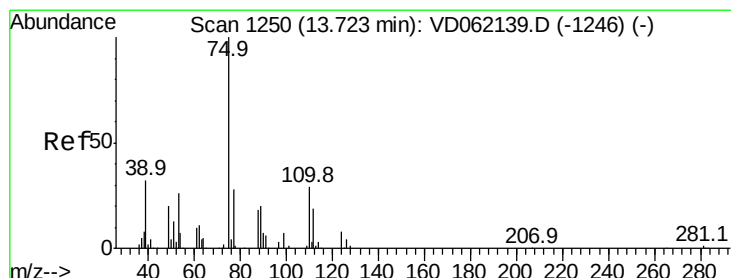
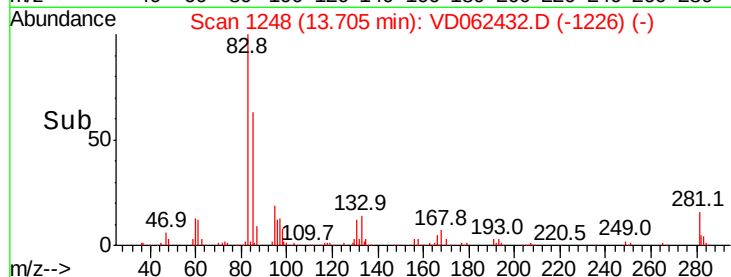
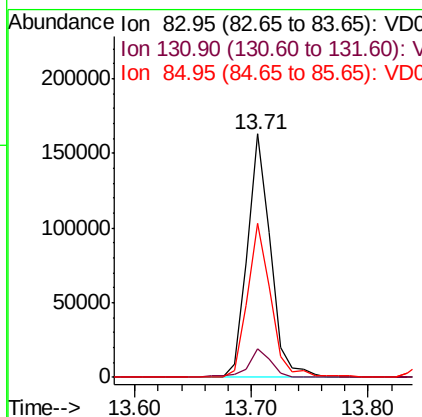
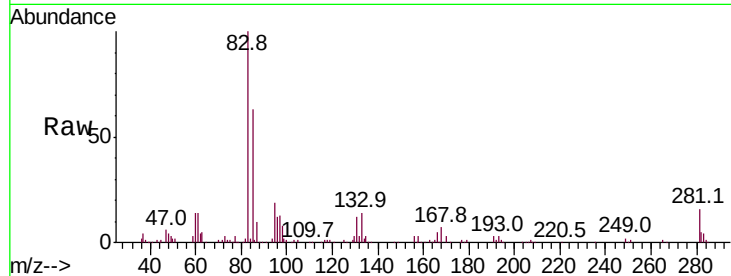
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	224147
Ion Ratio	Lower	Upper	
83	100		
131	11.6	5.0	14.9
85	63.5	32.6	97.7

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#76

1,2,3-Trichloropropane

Concen: 54.378 ug/l

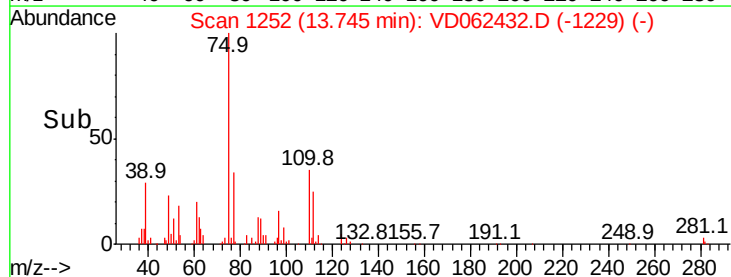
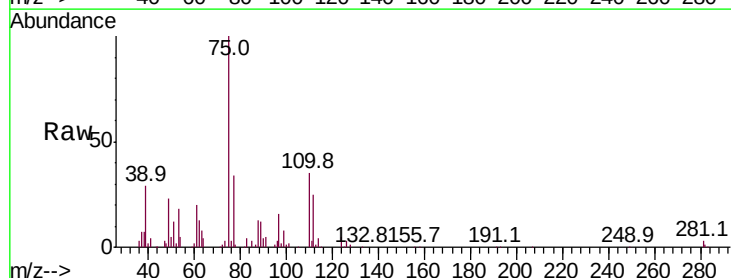
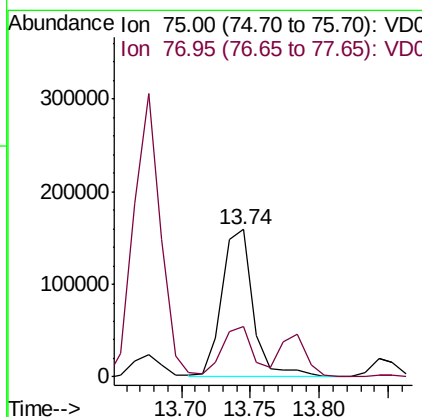
RT: 13.74 min Scan# 1252

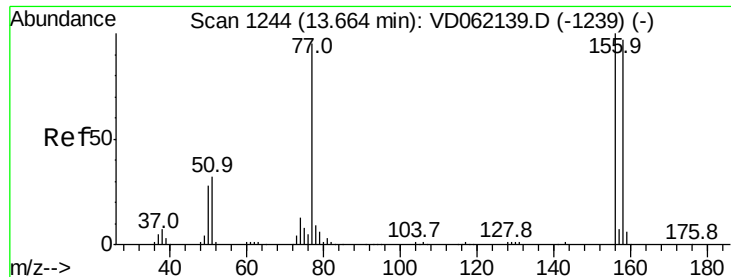
Delta R.T. 0.02 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion:	75	Resp:	248915
Ion Ratio	Lower	Upper	
75	100		
77	34.0	16.4	49.4





#77

Bromobenzene

Concen: 52.220 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

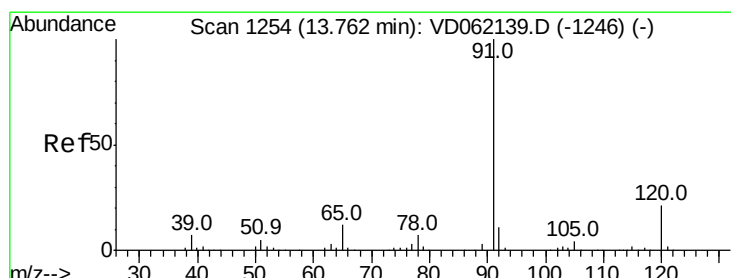
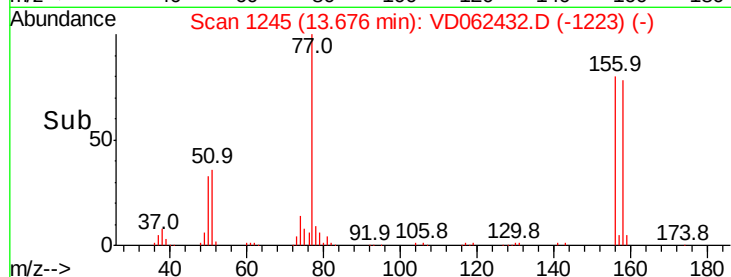
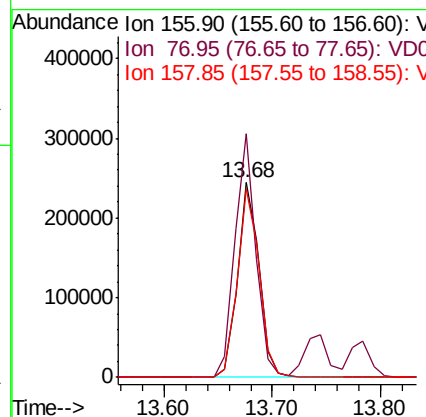
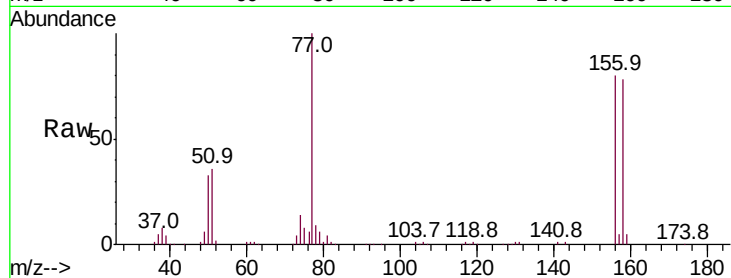
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	124.9	53.1	159.4
158	96.9	49.4	148.0

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#78

n-propylbenzene

Concen: 56.656 ug/l

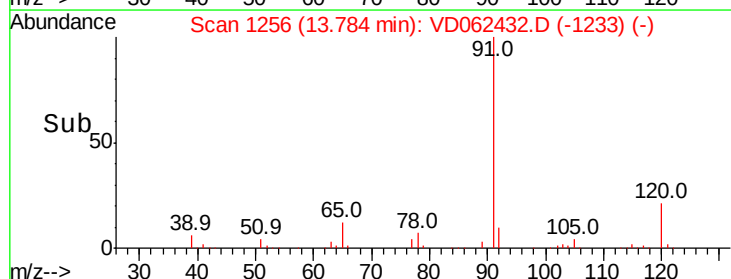
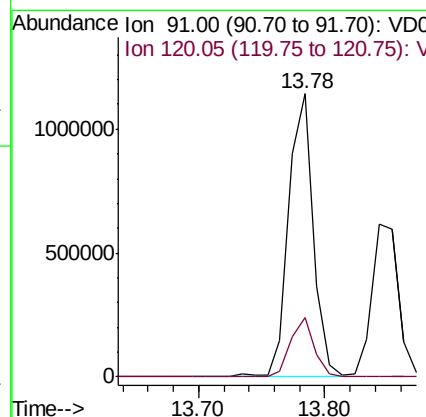
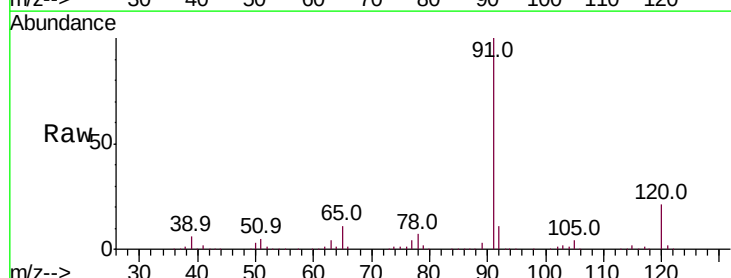
RT: 13.78 min Scan# 1256

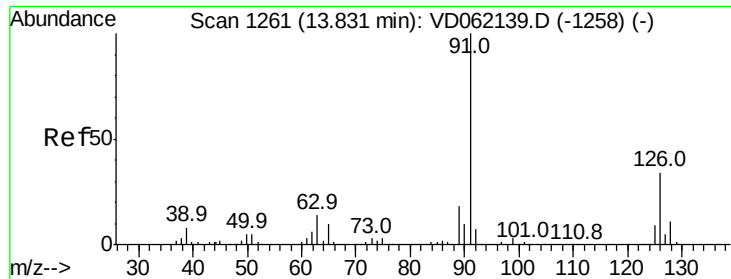
Delta R.T. 0.02 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.8	11.1	33.1





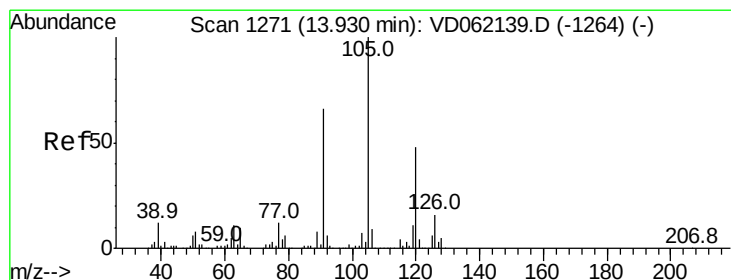
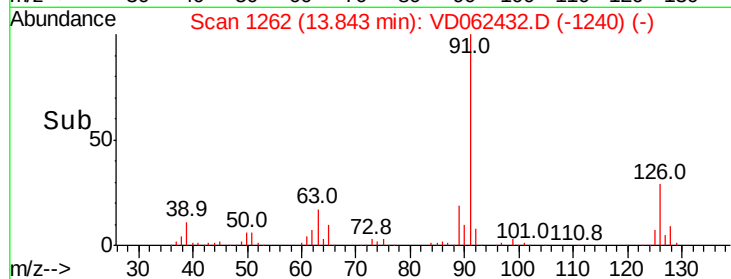
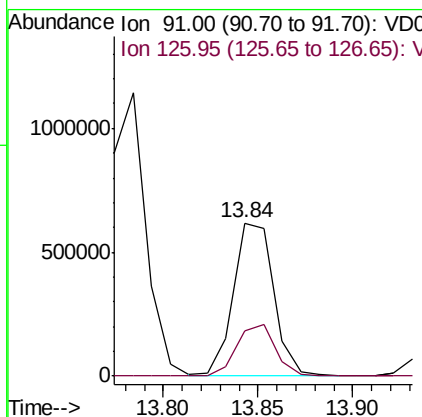
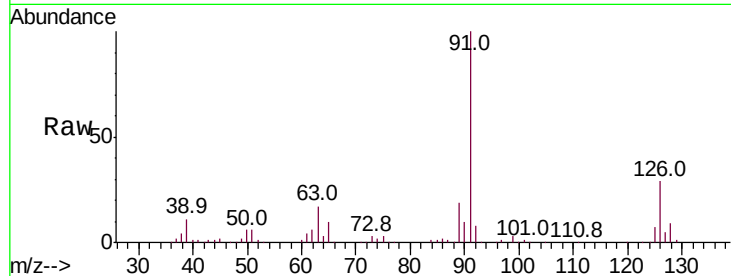
#79
 2-Chlorotoluene
 Concen: 57.048 ug/l
 RT: 13.84 min Scan# 1262
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 899861
 Ion Ratio Lower Upper
 91 100
 126 29.4 18.6 55.8

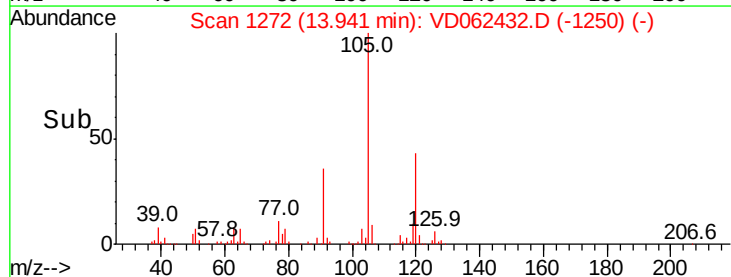
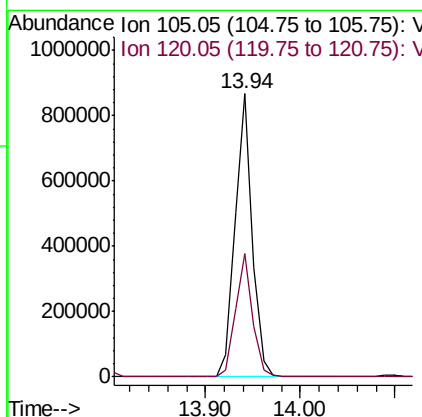
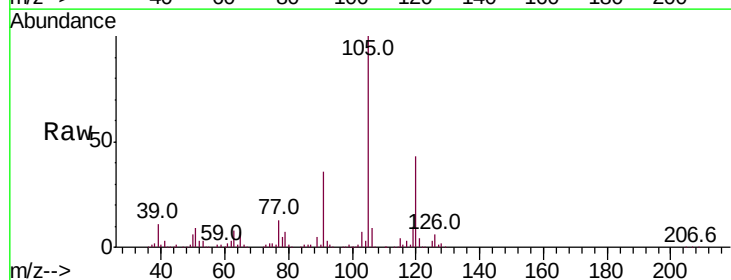
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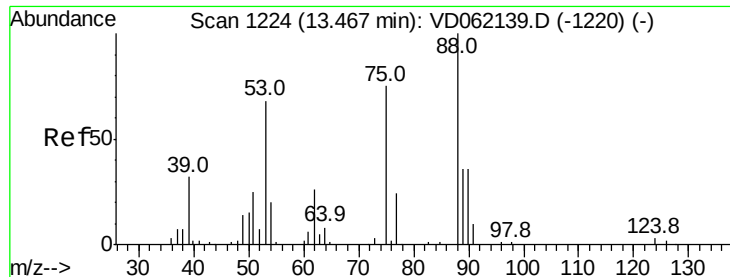
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#80
 1,3,5-Trimethylbenzene
 Concen: 55.677 ug/l
 RT: 13.94 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Tgt Ion:105 Resp: 1082503
 Ion Ratio Lower Upper
 105 100
 120 43.4 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.608 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 71859

Ion Ratio Lower Upper

75 100

53 107.9 65.8 98.8#

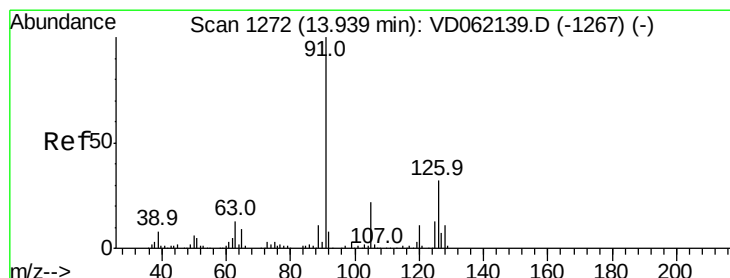
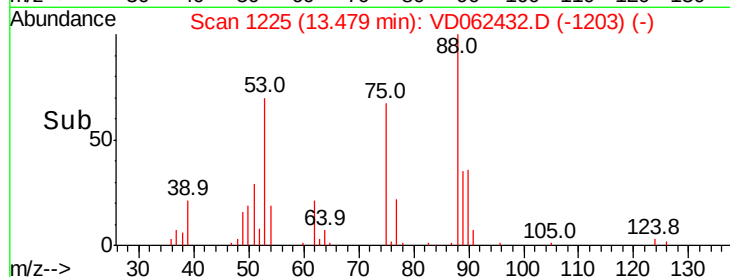
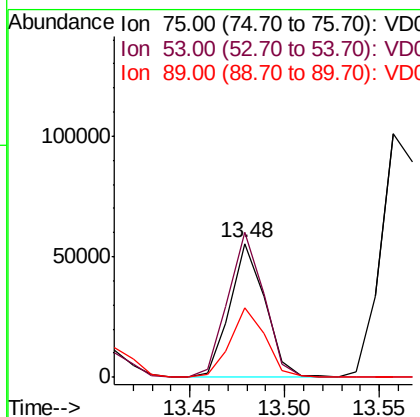
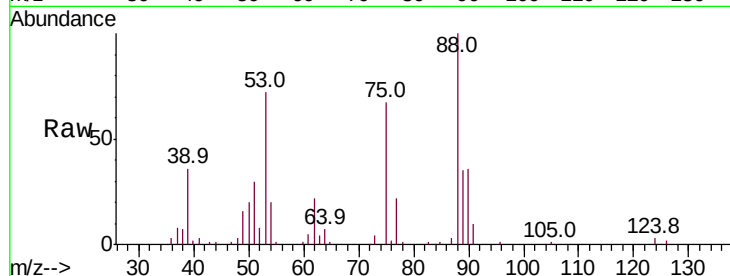
89 52.2 35.0 52.6

Manual Integrations

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#82

4-Chlorotoluene

Concen: 54.884 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD062432.D

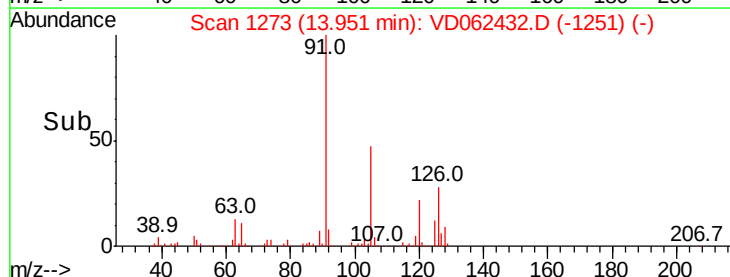
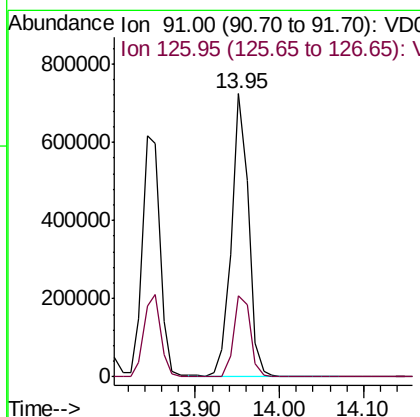
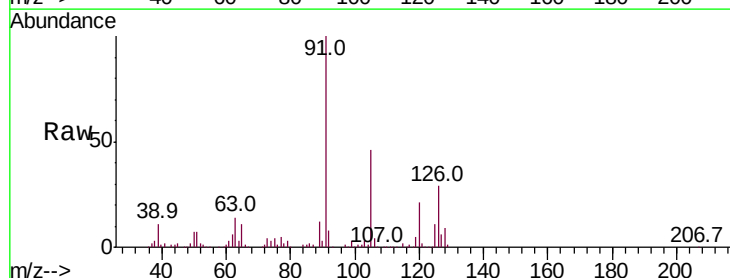
Acq: 17 May 2019 11:28

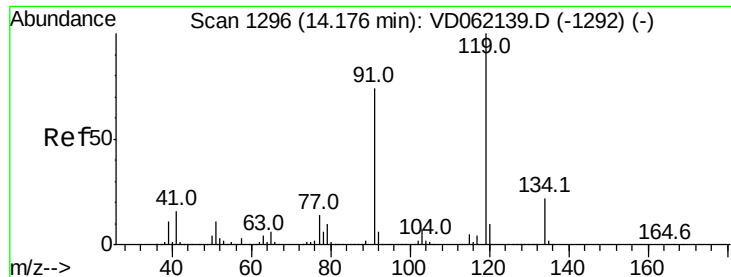
Tgt Ion: 91 Resp: 1018750

Ion Ratio Lower Upper

91 100

126 28.8 19.1 57.5





#83

tert-Butylbenzene

Concen: 58.430 ug/l

RT: 14.20 min Scan# 1298

Delta R.T. 0.02 min

Lab File: VD062432.D

Acq: 17 May 2019 11:28

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 1276879

Ion Ratio Lower Upper

119 100

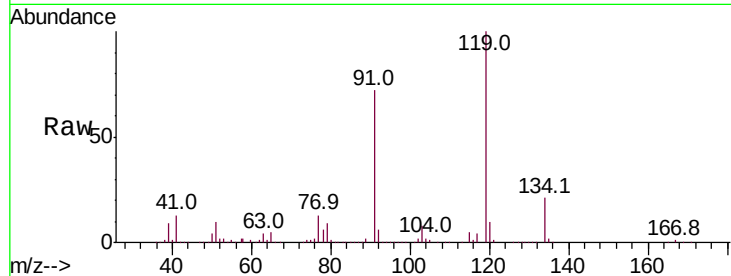
91 72.0 34.2 102.6

134 21.0 12.0 36.0

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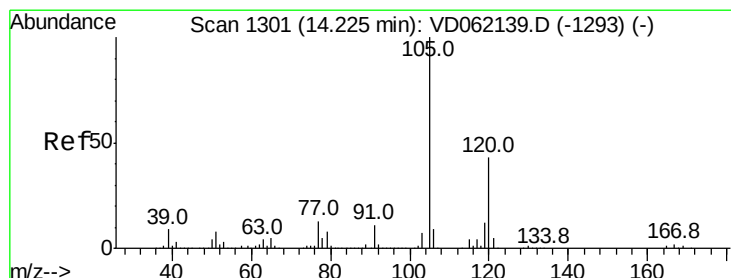
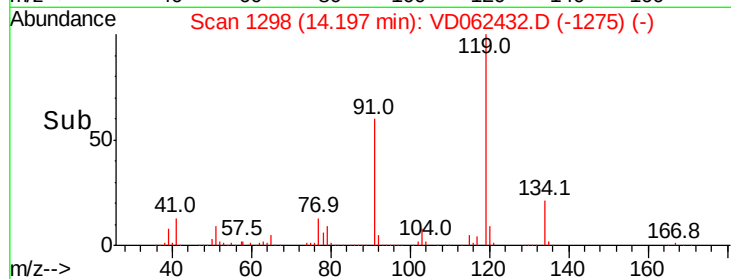
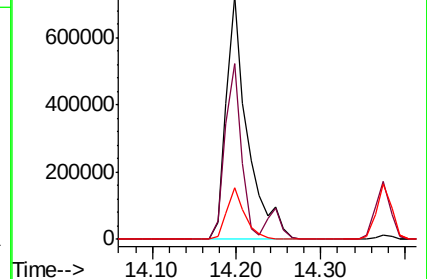
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Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 54.887 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD062432.D

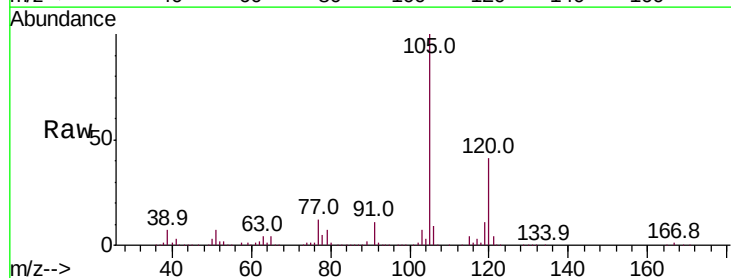
Acq: 17 May 2019 11:28

Tgt Ion:105 Resp: 1070876

Ion Ratio Lower Upper

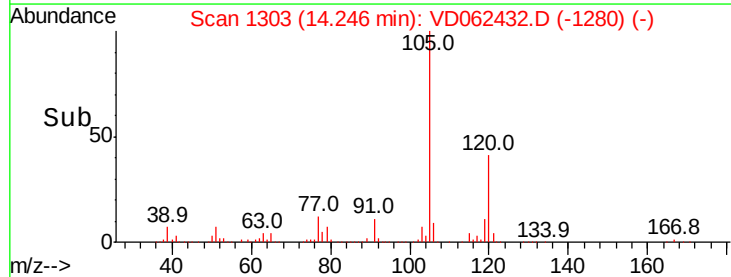
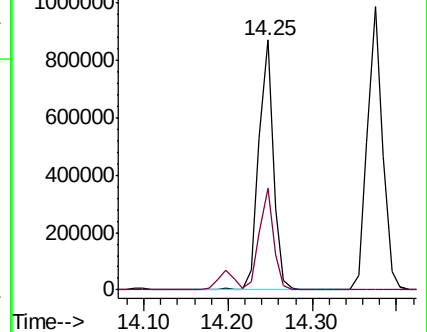
105 100

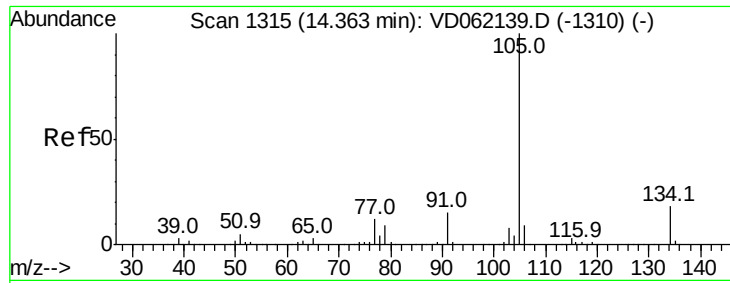
120 40.6 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





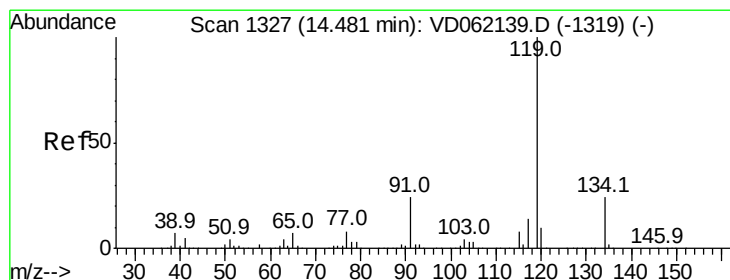
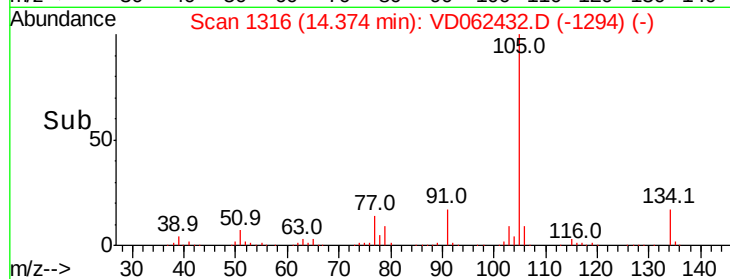
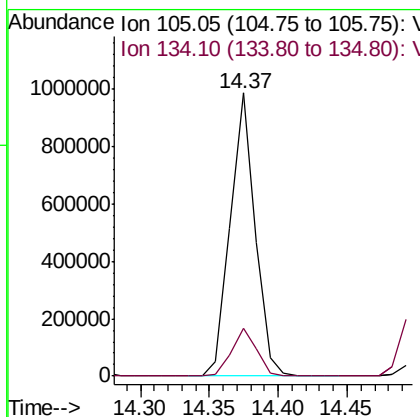
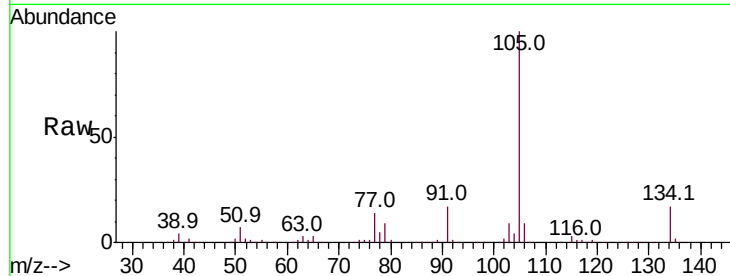
#85
 sec-Butylbenzene
 Concen: 51.621 ug/l
 RT: 14.37 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDCCC050

Tot Ion:105 Resp: 1236840
 Ion Ratio Lower Upper
 105 100
 134 16.9 8.9 26.7

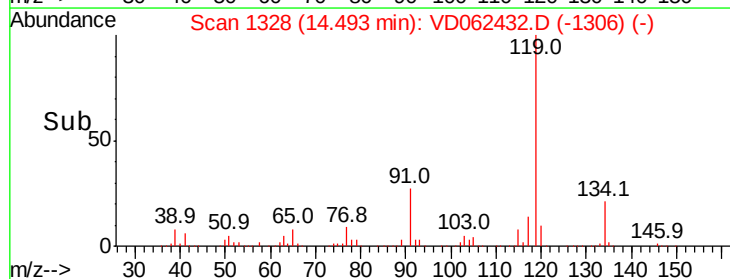
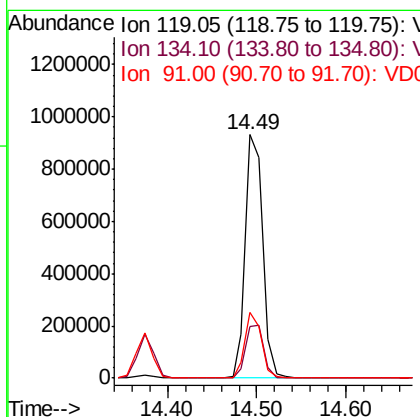
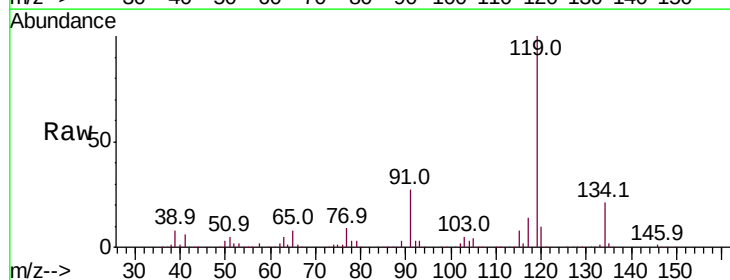
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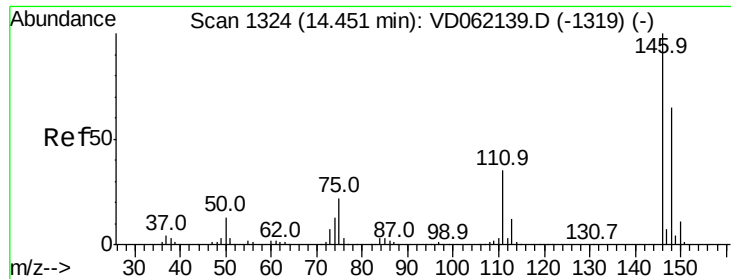
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#86
 p-Isopropyltoluene
 Concen: 58.821 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Tgt Ion:119 Resp: 1259159
 Ion Ratio Lower Upper
 119 100
 134 21.4 12.8 38.3
 91 27.2 10.7 32.1





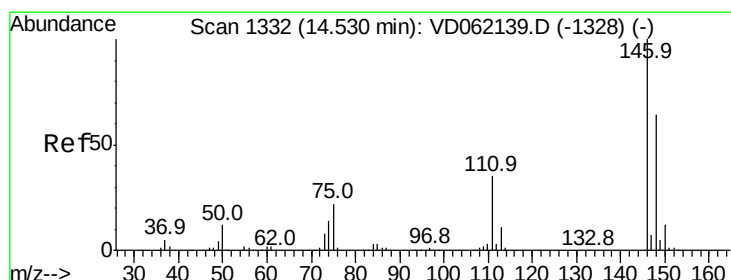
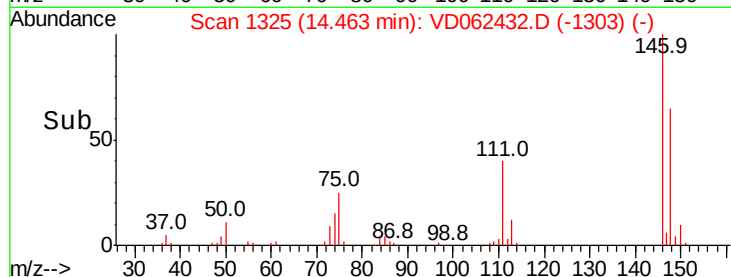
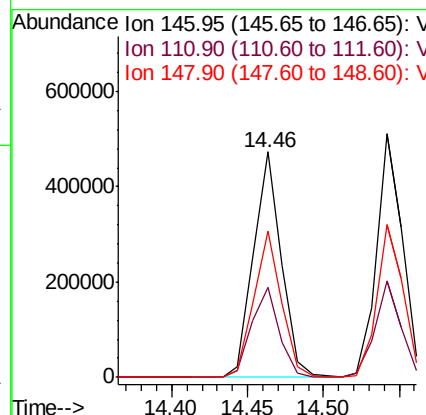
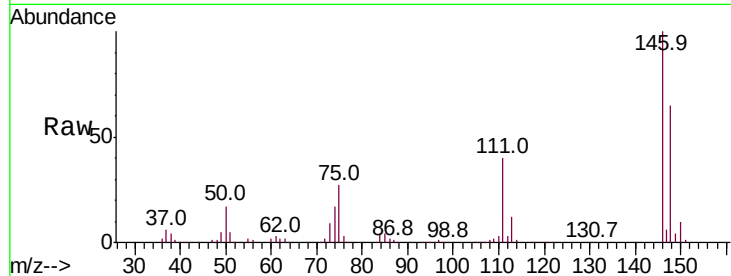
#87
 1,3-Dichlorobenzene
 Concen: 51.124 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.0	60.0
148	64.7	31.8	95.4

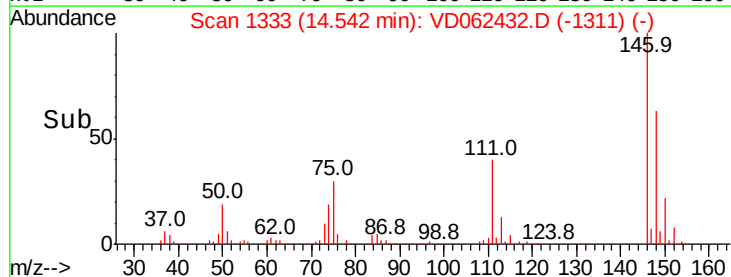
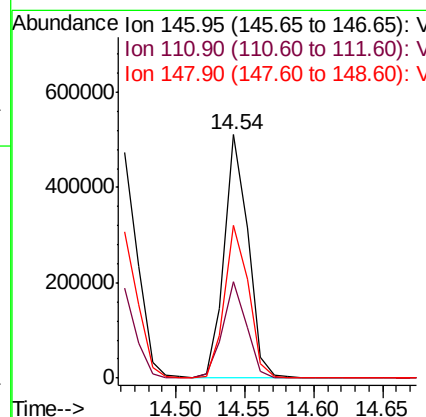
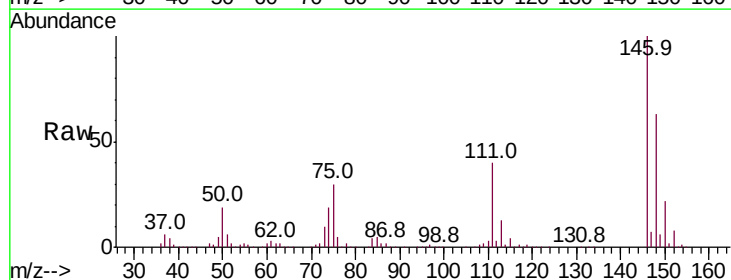
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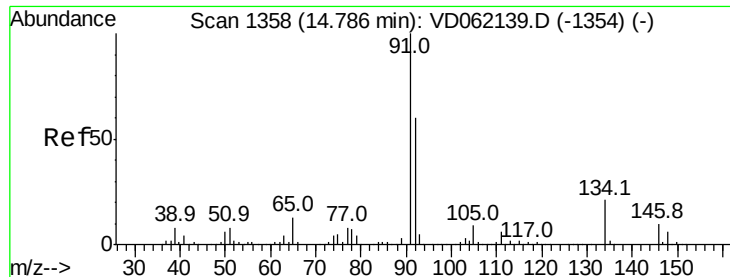
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#88
 1,4-Dichlorobenzene
 Concen: 52.695 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.2	60.5
148	62.8	32.0	96.2





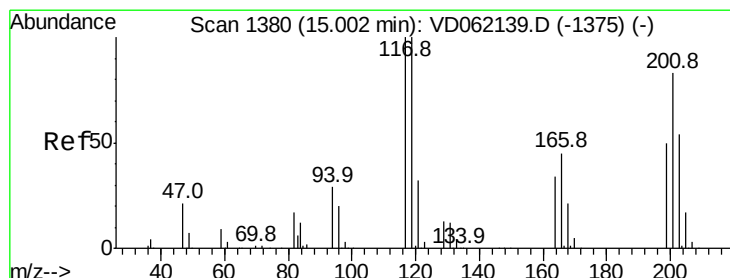
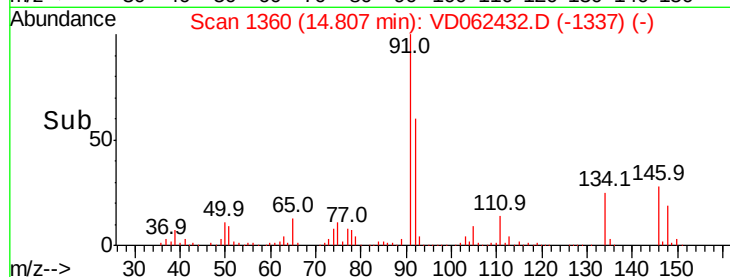
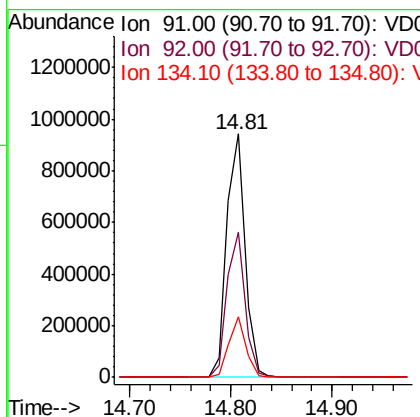
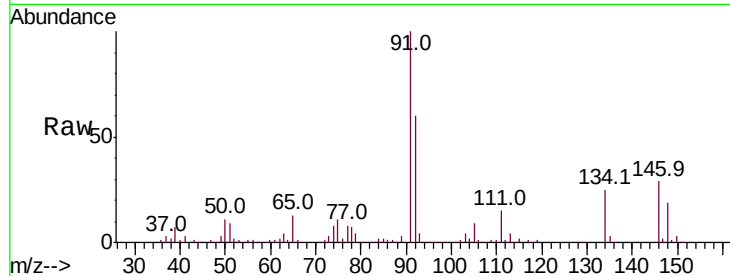
#89
n-Butylbenzene
Concen: 61.896 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1189273
Ion Ratio Lower Upper
91 100
92 59.6 30.3 91.0
134 24.8 14.5 43.6

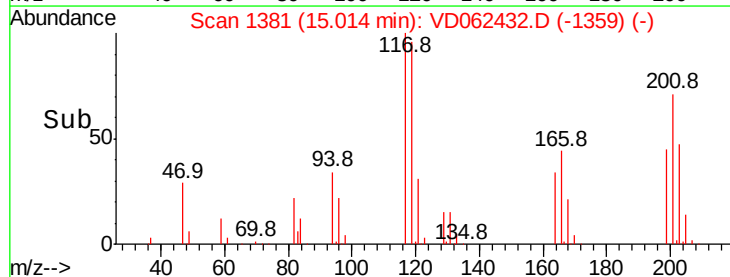
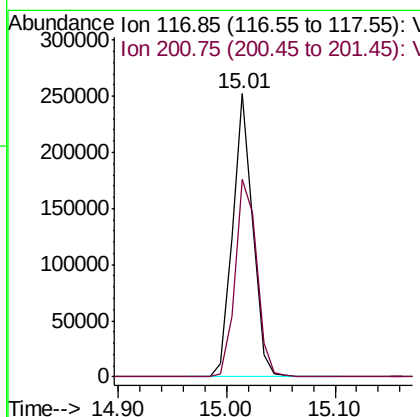
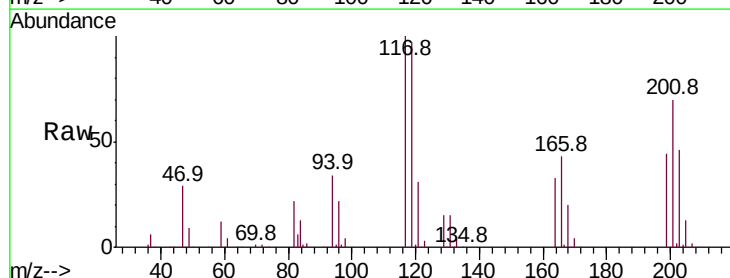
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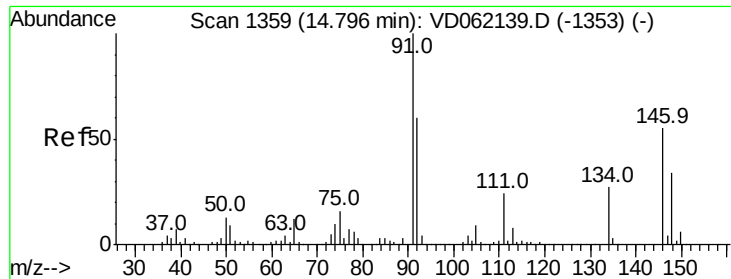
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#90
Hexachloroethane
Concen: 56.009 ug/l
RT: 15.01 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion: 117 Resp: 326057
Ion Ratio Lower Upper
117 100
201 69.9 30.2 90.6





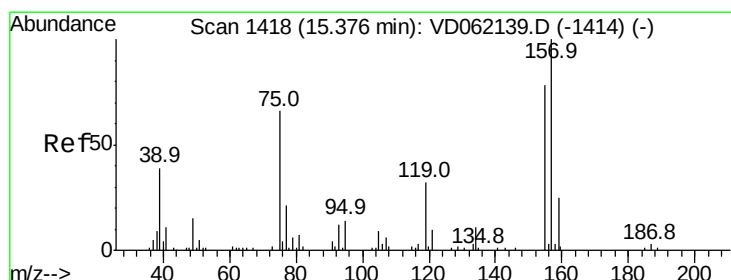
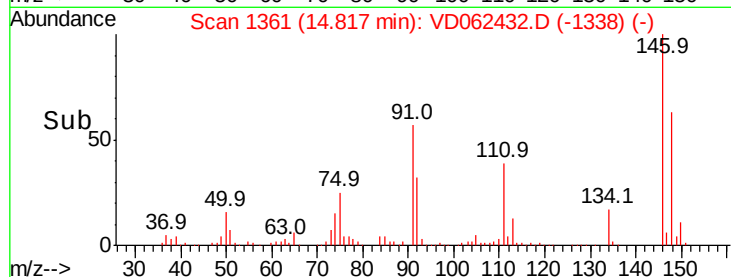
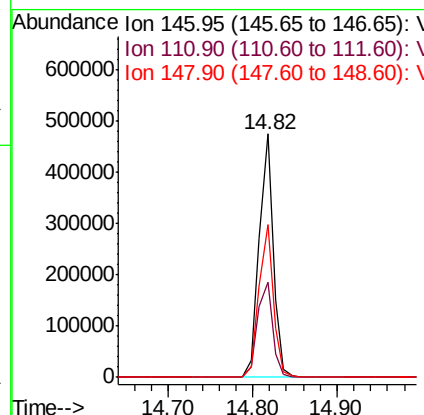
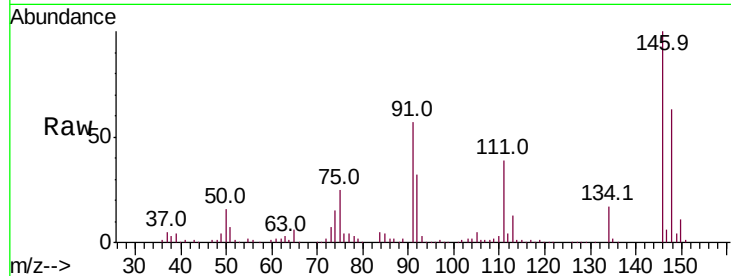
#91
 1,2-Dichlorobenzene
 Concen: 58.393 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	20.0	59.9
148	62.9	32.3	96.8

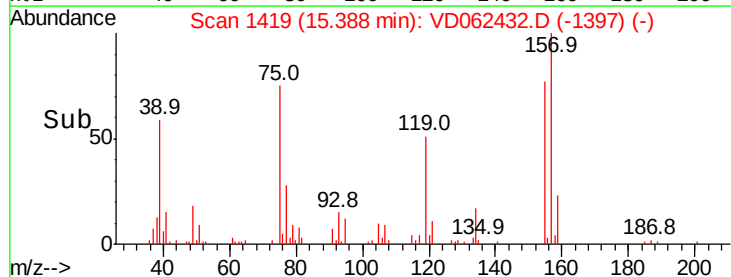
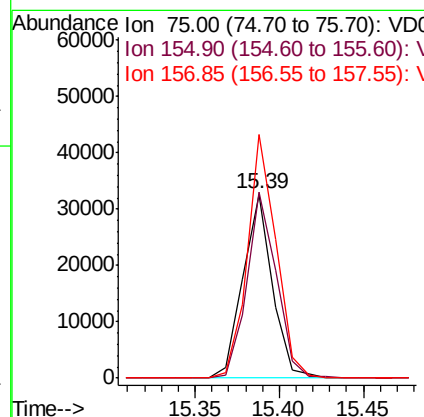
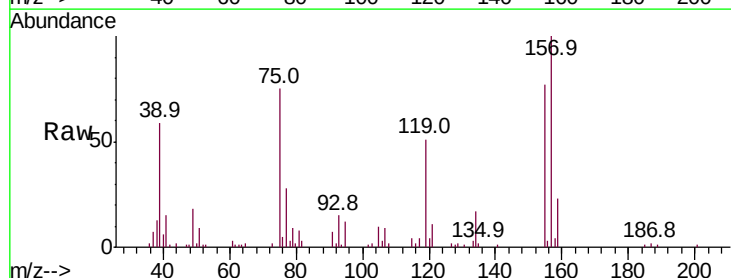
Manual Integrations
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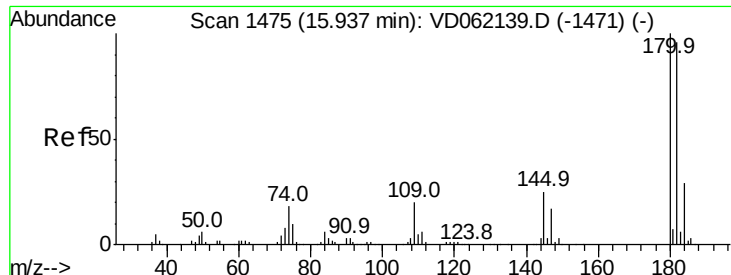
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.157 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.4	55.3	165.8
157	132.5	67.8	203.2





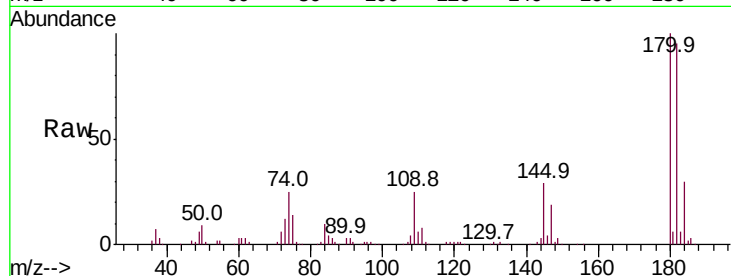
#93
 1,2,4-Trichlorobenzene
 Concen: 62.696 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

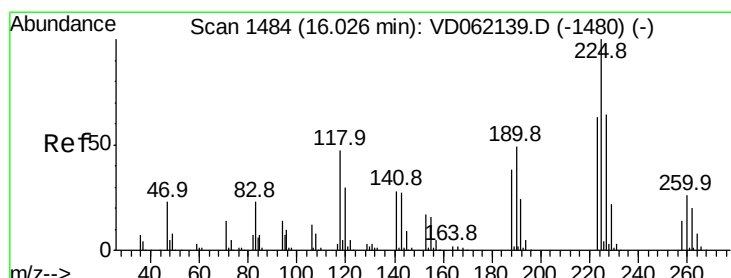
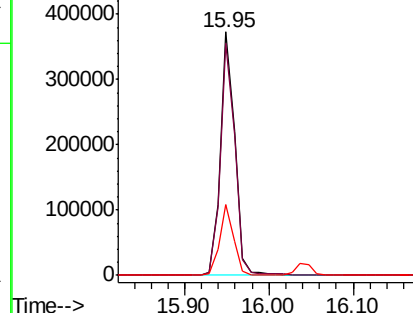
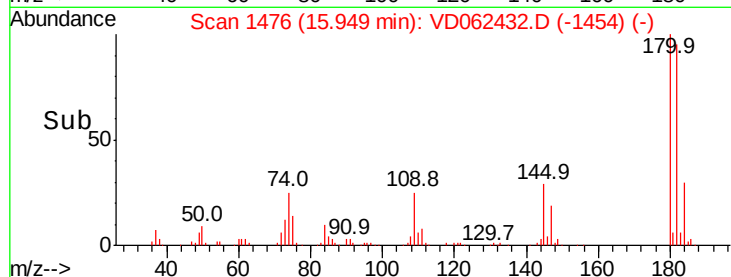
Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.5	49.3	147.8	
145	29.1	16.2	48.6	

Manual Integrations
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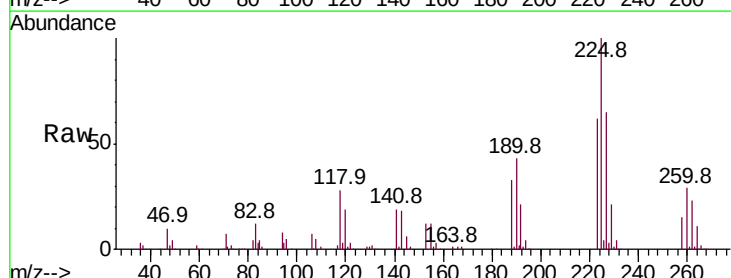


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

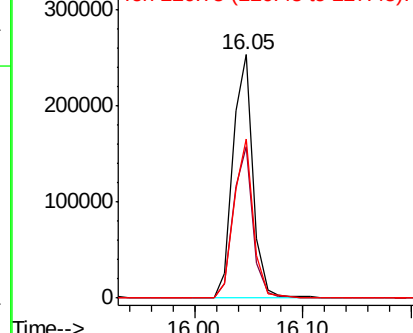
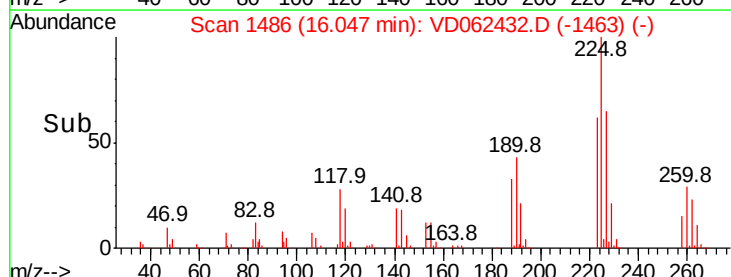


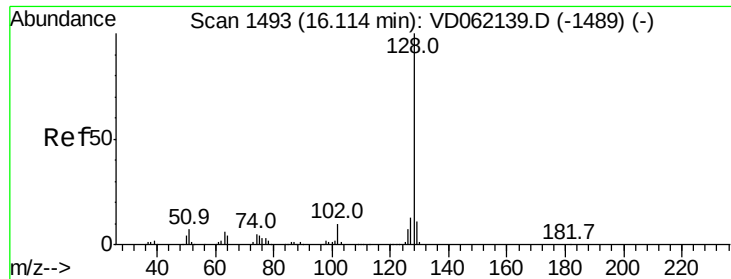
#94
 Hexachlorobutadiene
 Concen: 62.278 ug/l
 RT: 16.05 min Scan# 1486
 Delta R.T. 0.02 min
 Lab File: VD062432.D
 Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.3	30.6	92.0	
227	65.1	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





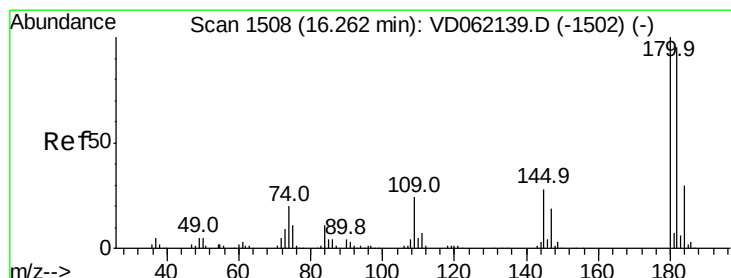
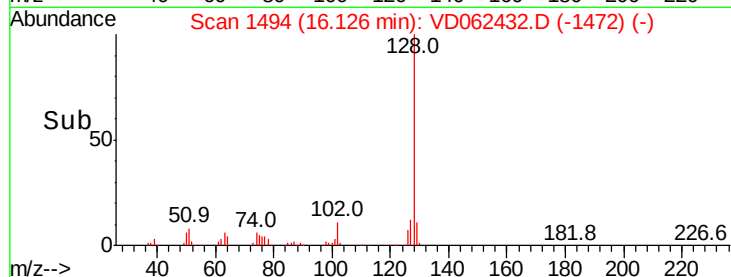
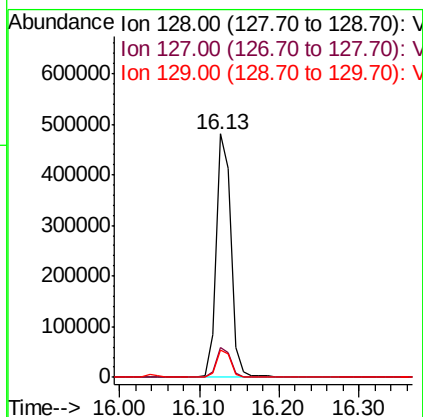
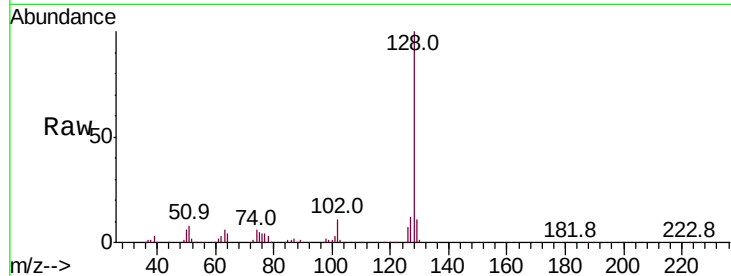
#95
Naphthalene
Concen: 64.030 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	632682		
127	12.4		9.8	14.8
129	11.0		8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/22/2019 9:32:52 AM



#96
1,2,3-Trichlorobenzene
Concen: 75.893 ug/l
RT: 16.27 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD062432.D
Acq: 17 May 2019 11:28

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	337721		
182	93.2		47.0	141.0
145	32.7		17.0	51.0

