

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055632.D
 Acq On : 17 May 2019 23:50
 Operator : JC/SP
 Sample : K2902-04MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Manual Integrations
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 5/20/2019 9:09:20 AM

Quant Time: May 18 04:27:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	335792	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	509566	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	444917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	206773	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	182659	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
35) Dibromofluoromethane	7.59	113	165284	51.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.12%	
50) Toluene-d8	10.09	98	613211	50.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.20%	
62) 4-Bromofluorobenzene	12.40	95	212758	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	119500	46.253	ug/l	98
3) Chloromethane	2.06	50	156563	45.432	ug/l	99
4) Vinyl Chloride	2.18	62	176618	47.331	ug/l	99
5) Bromomethane	2.56	94	115107	48.402	ug/l	100
6) Chloroethane	2.71	64	101556	49.015	ug/l	100
7) Trichlorofluoromethane	3.03	101	231966	48.509	ug/l	98
8) Diethyl Ether	3.41	74	95588	49.760	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.77	101	141658	48.592	ug/l	99
10) Methyl Iodide	3.96	142	203126	48.331	ug/l	99
11) Tert butyl alcohol	4.77	59	178203	259.607	ug/l	98
12) 1,1-Dichloroethene	3.74	96	147875	48.220	ug/l	98
13) Acrolein	3.61	56	84446	241.223	ug/l	99
14) Allyl chloride	4.33	41	210240	42.467	ug/l	93
15) Acrylonitrile	4.99	53	392245	256.839	ug/l	100
16) Acetone	3.82	43	319313	212.567	ug/l	99
17) Carbon Disulfide	4.06	76	402317	47.192	ug/l	100
18) Methyl Acetate	4.33	43	142894	44.371	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	493709	48.664	ug/l	98
20) Methylene Chloride	4.56	84	161705	47.169	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	157386	48.177	ug/l	98
22) Diisopropyl ether	5.95	45	467224	47.627	ug/l	97
23) Vinyl Acetate	5.90	43	1802910	216.591	ug/l	99
24) 1,1-Dichloroethane	5.85	63	277441	48.233	ug/l	99
25) 2-Butanone	6.84	43	512347	243.932	ug/l	99
26) 2,2-Dichloropropane	6.83	77	166878	32.689	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	182290	47.920	ug/l	96
28) Bromochloromethane	7.20	49	126291	50.467	ug/l	98
29) Tetrahydrofuran	7.21	42	345158	248.045	ug/l	99
30) Chloroform	7.37	83	283701	48.049	ug/l	99
31) Cyclohexane	7.66	56	249539	45.710	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	252167	47.616	ug/l	99
36) 1,1-Dichloropropene	7.80	75	216508	47.657	ug/l	99
37) Ethyl Acetate	6.93	43	191950	46.822	ug/l	100
38) Carbon Tetrachloride	7.78	117	225411	46.431	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	251947	46.004	ug/l	100
40) Benzene	8.04	78	649923	48.637	ug/l	100
41) Methacrylonitrile	7.18	41	80657m	46.018	ug/l	
42) 1,2-Dichloroethane	8.13	62	216823	50.108	ug/l	100
43) Isopropyl Acetate	8.16	43	327433	45.916	ug/l	98
44) Trichloroethene	8.84	130	189259	50.194	ug/l	97
45) 1,2-Dichloropropane	9.12	63	170948	48.561	ug/l	100
46) Dibromomethane	9.21	93	113676	49.338	ug/l	99
47) Bromodichloromethane	9.40	83	230715	47.778	ug/l	98
48) Methyl methacrylate	9.20	41	159630	50.081	ug/l	97
49) 1,4-Dioxane	9.20	88	68156	1076.099	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	1038240	248.202	ug/l	100
52) Toluene	10.16	92	408391	48.727	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	244702	47.083	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	267206	46.931	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	167037	48.411	ug/l	99
56) Ethyl methacrylate	10.43	69	258889	48.065	ug/l	98
57) 1,3-Dichloropropane	10.71	76	268669	49.164	ug/l	100
59) 2-Hexanone	10.75	43	737404	250.386	ug/l	98
60) Dibromochloromethane	10.90	129	196352	50.210	ug/l	100
61) 1,2-Dibromoethane	11.01	107	172930	50.090	ug/l	100
64) Tetrachloroethene	10.63	164	165286	47.101	ug/l	99
65) Chlorobenzene	11.43	112	439818	48.874	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	176592	48.779	ug/l	99
67) Ethyl Benzene	11.51	91	767335	47.866	ug/l	98
68) m/p-Xylenes	11.62	106	579446	95.715	ug/l	99
69) o-Xylene	11.95	106	281110	47.476	ug/l	98
70) Stvrene	11.96	104	480133	48.768	ug/l	99
71) Bromoform	12.13	173	155672	50.741	ug/l	99
73) Isopropylbenzene	12.25	105	743513	51.304	ug/l	100
74) N-amyl acetate	12.07	43	248717	42.837	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	234309	51.652	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	194290m	46.049	ug/l	
77) Bromobenzene	12.53	156	201987	47.565	ug/l	96
78) n-propylbenzene	12.59	91	814086	44.335	ug/l	99
79) 2-Chlorotoluene	12.67	91	491462	50.012	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	618707	49.909	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	68794	41.913	ug/l	99
82) 4-Chlorotoluene	12.77	91	491532	45.433	ug/l	99
83) tert-Butylbenzene	12.99	119	529851	50.371	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	616310	49.788	ug/l	99
85) sec-Butylbenzene	13.17	105	684052	49.461	ug/l	100
86) p-Isopropyltoluene	13.29	119	630400	48.943	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	332835	47.404	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	323178	48.206	ug/l	99
89) n-Butylbenzene	13.61	91	514290	45.326	ug/l	100
90) Hexachloroethane	13.87	117	123896	50.401	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	328239	46.897	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	45328	48.304	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	192347	53.989	ug/l	100

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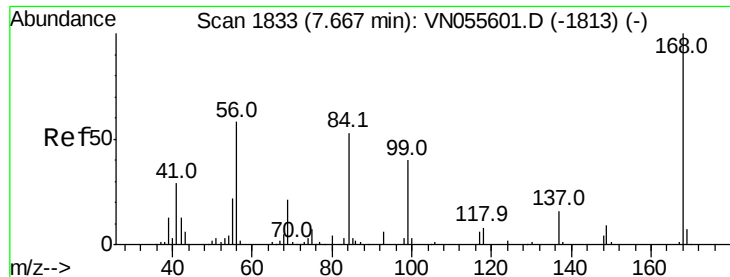
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.01	225	101873	47.214	ug/l	99
95) Naphthalene	15.13	128	544013	50.574	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	192056	51.557	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:168 Resp: 335792

Ion Ratio Lower Upper

168 100

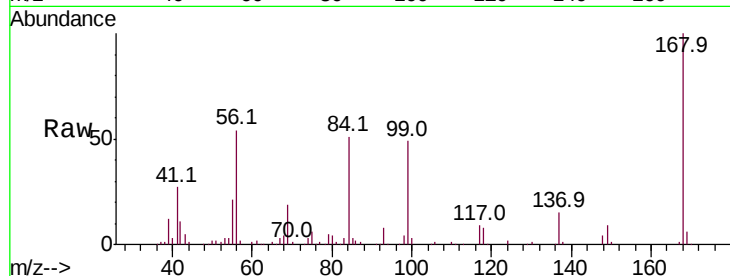
99 48.9 40.2 60.2

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

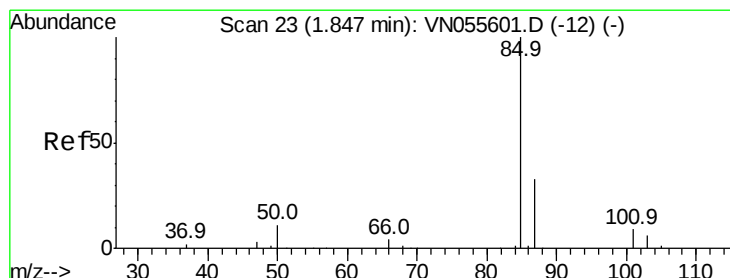
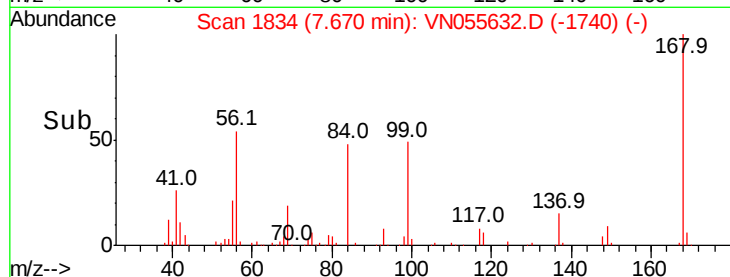
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 46.253 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055632.D

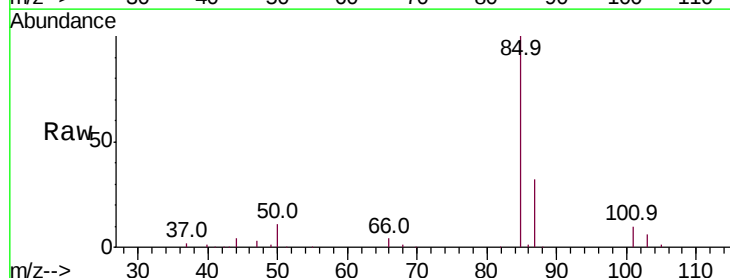
Acq: 17 May 2019 23:50

Tgt Ion: 85 Resp: 119500

Ion Ratio Lower Upper

85 100

87 32.2 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

80000

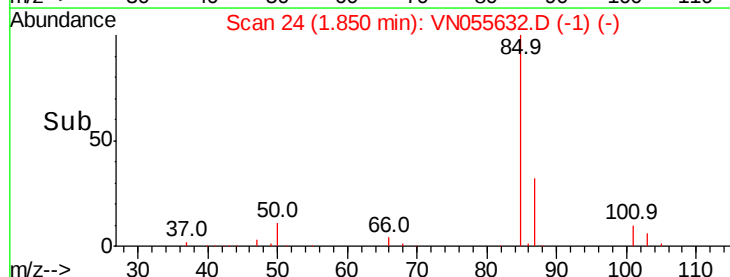
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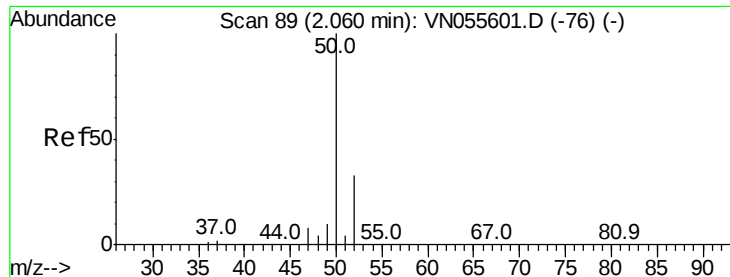
40000

20000

0

Time--> 1.80 1.85 1.90 1.95





#3

Chloromethane

Concen: 45.432 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion: 50 Resp: 156563

Ion Ratio Lower Upper

50 100

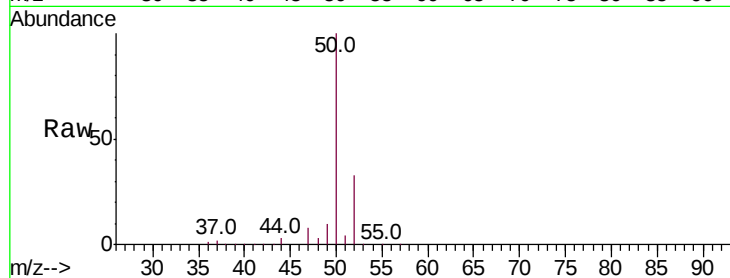
52 32.6 26.7 40.1

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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC

2.06

120000

100000

80000

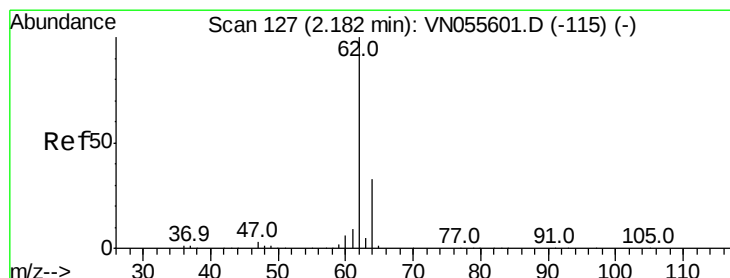
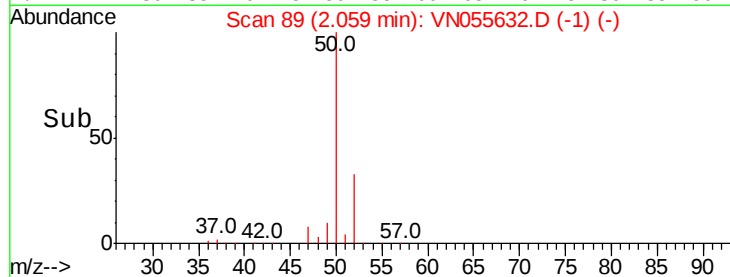
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 47.331 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN055632.D

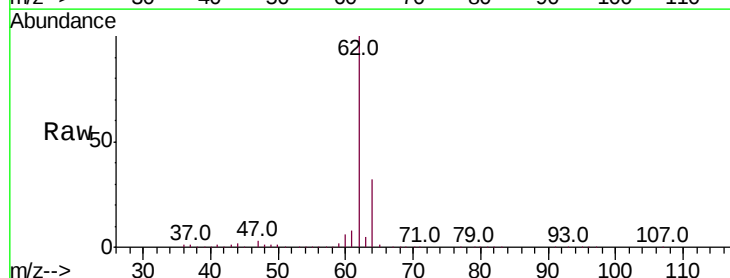
Acq: 17 May 2019 23:50

Tgt Ion: 62 Resp: 176618

Ion Ratio Lower Upper

62 100

64 32.0 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

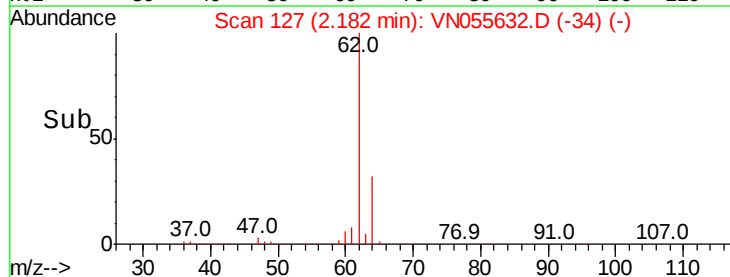
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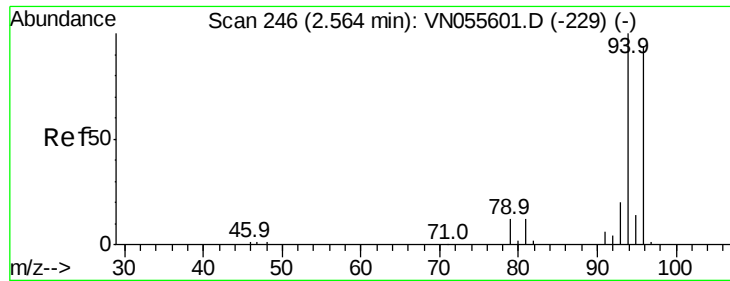
100000

50000

0

Time-->





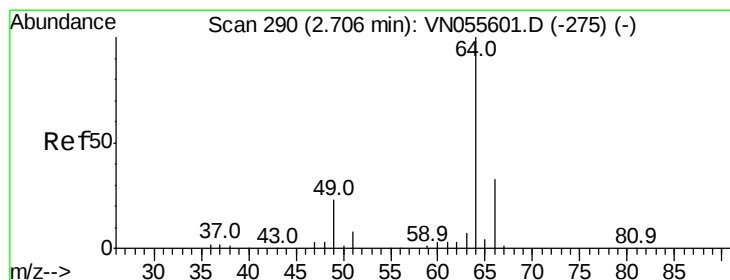
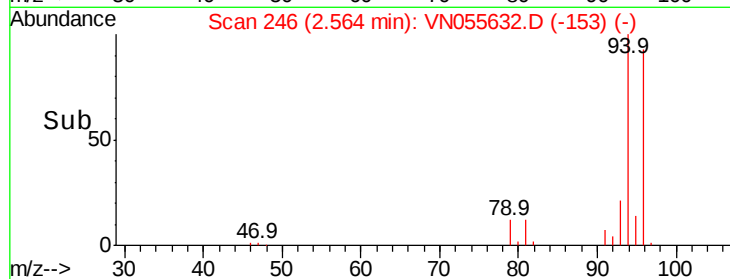
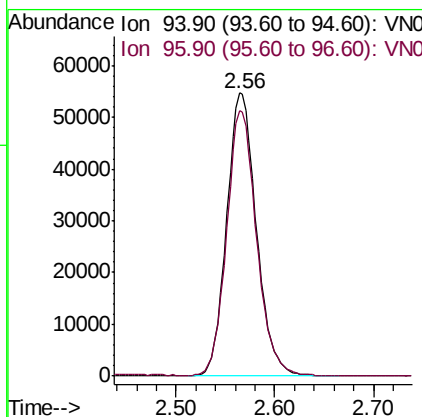
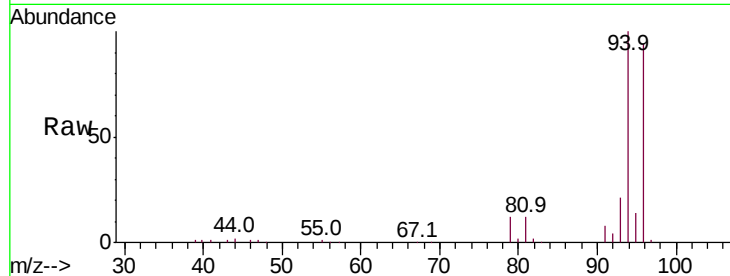
#5
Bromomethane
Concen: 48.402 ug/l
RT: 2.56 min Scan# 246
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

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MSVOA_N
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Tot Ion: 94 Resp: 115107
Ion Ratio Lower Upper
94 100
96 93.8 75.2 112.8

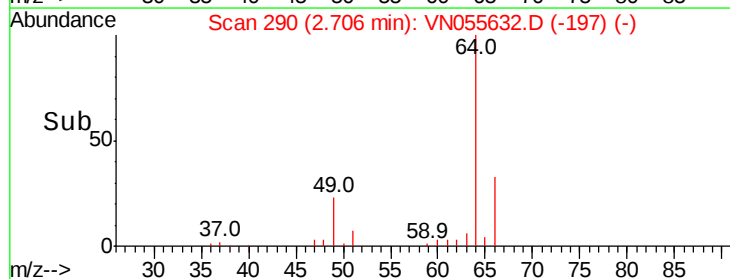
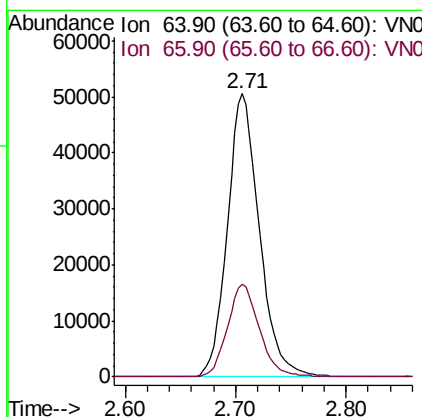
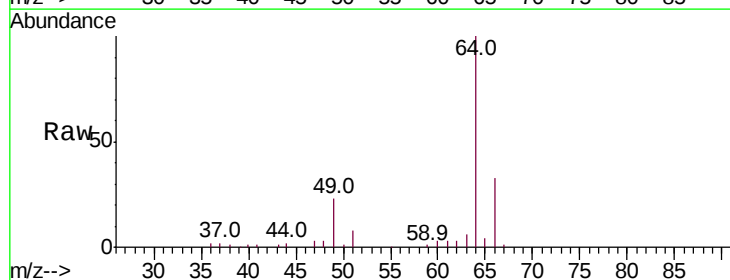
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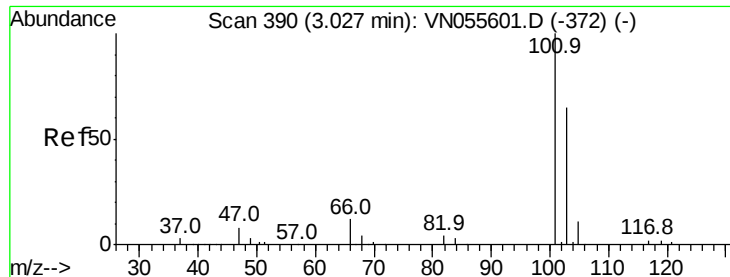
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#6
Chloroethane
Concen: 49.015 ug/l
RT: 2.71 min Scan# 290
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 64 Resp: 101556
Ion Ratio Lower Upper
64 100
66 32.8 26.2 39.4





#7

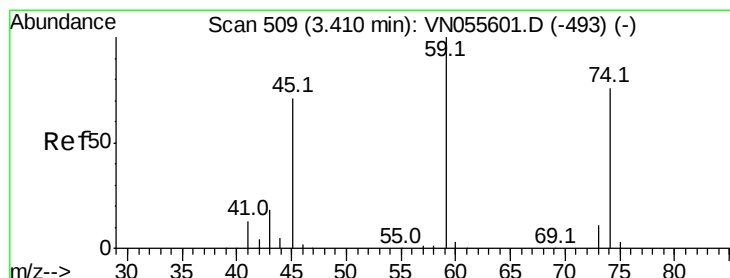
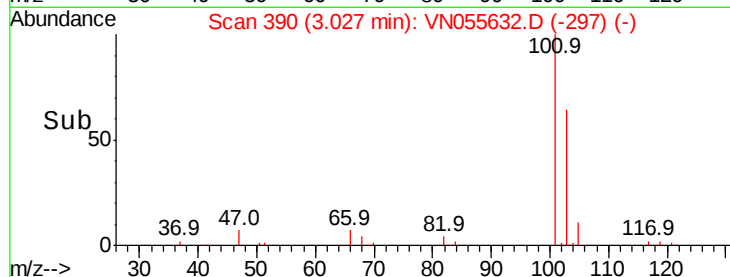
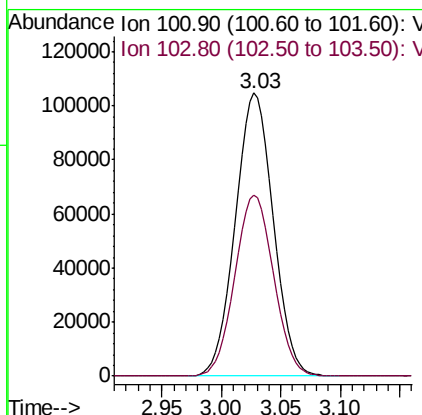
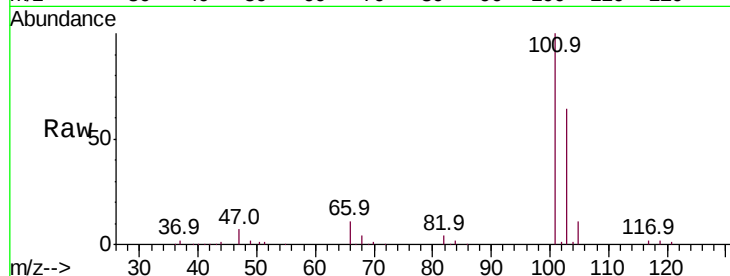
Trichlorofluoromethane
 Concen: 48.509 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
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 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.3	78.5

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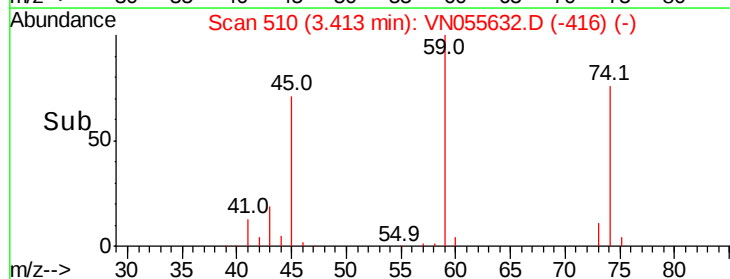
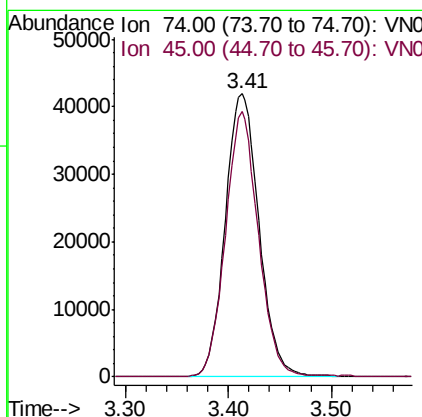
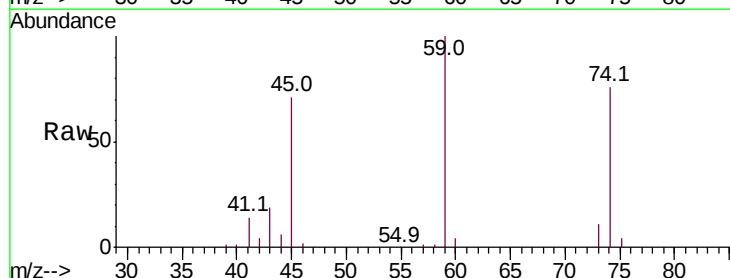
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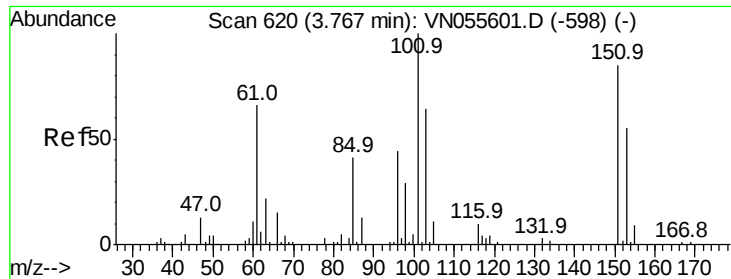


#8

Diethyl Ether
 Concen: 49.760 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	91.5	46.4	139.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.592 ug/l

RT: 3.77 min Scan# 620

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

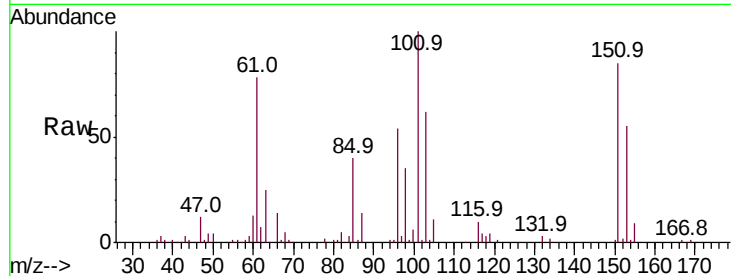
ClientSampleId :

FM-EA-3MW01-051519MSD

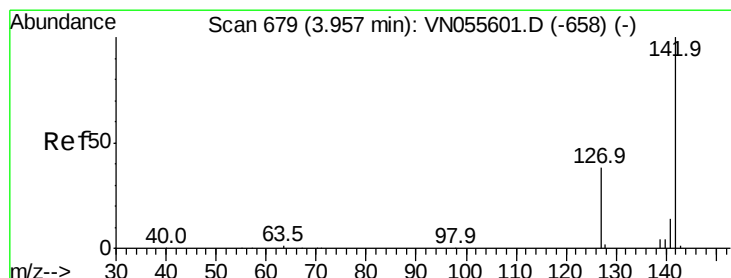
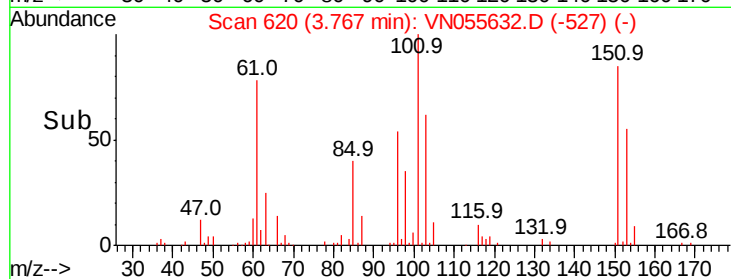
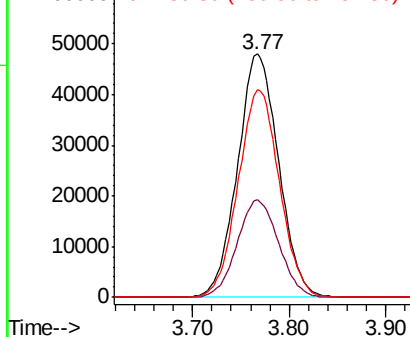
Tot Ion:	101	Resp:	141658
Ion Ratio	Lower	Upper	
101	100		
85	40.3	33.4	50.0
151	85.6	69.3	103.9

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 48.331 ug/l

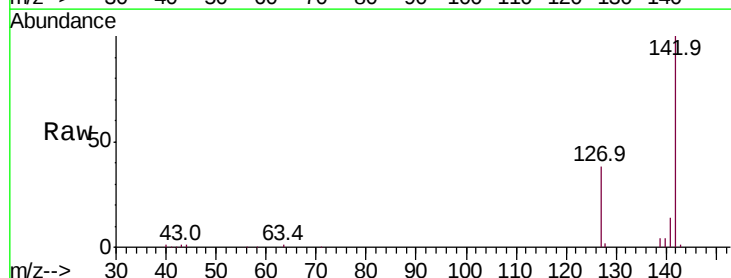
RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

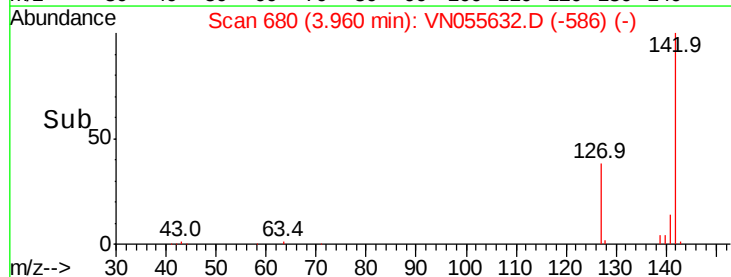
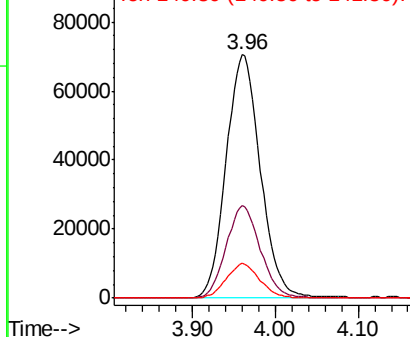
Lab File: VN055632.D

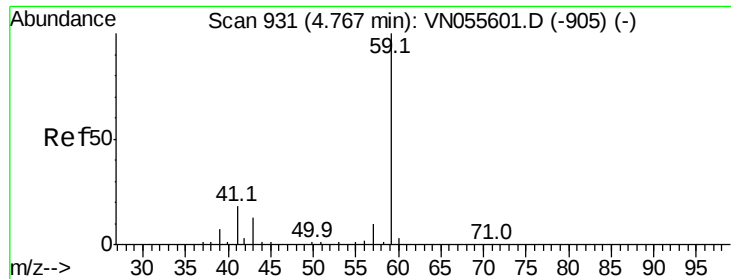
Acq: 17 May 2019 23:50

Tgt Ion:	142	Resp:	203126
Ion Ratio	Lower	Upper	
142	100		
127	37.9	31.0	46.4
141	14.0	11.5	17.3



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





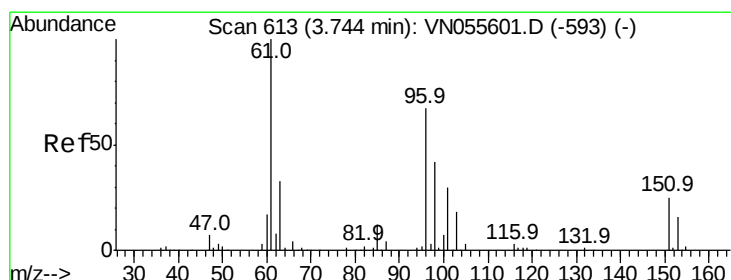
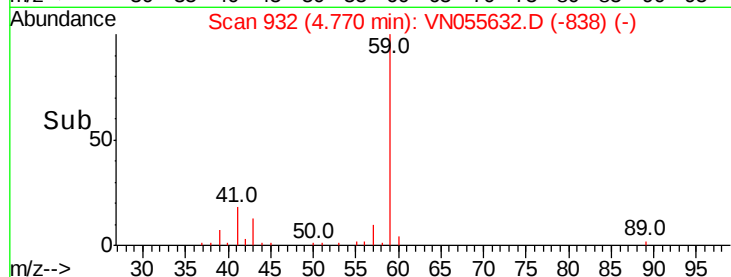
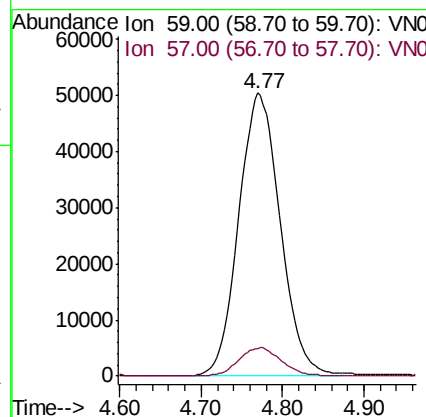
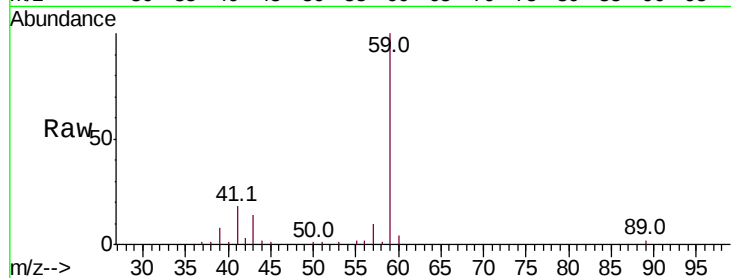
#11
Tert butyl alcohol
Concen: 259.607 ug/l
RT: 4.77 min Scan# 932
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 59 Resp: 178203
Ion Ratio Lower Upper
59 100
57 10.3 7.8 11.6

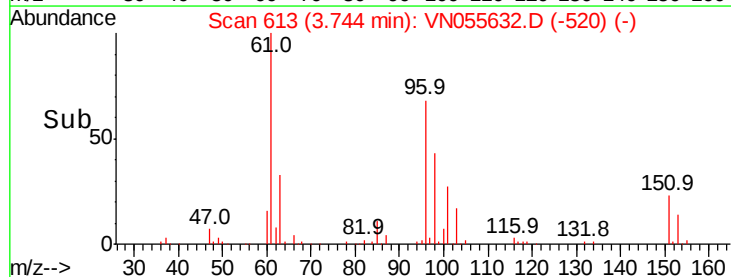
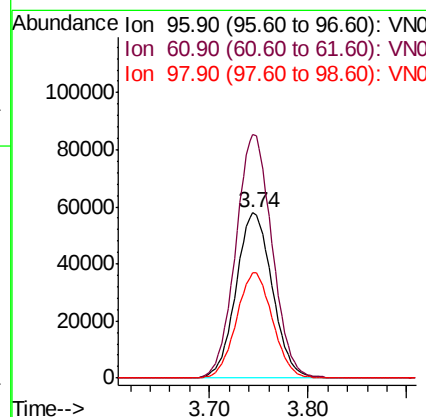
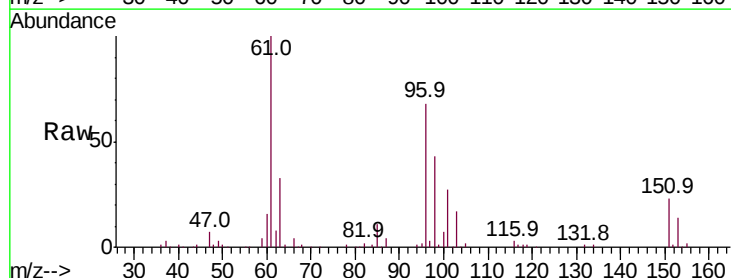
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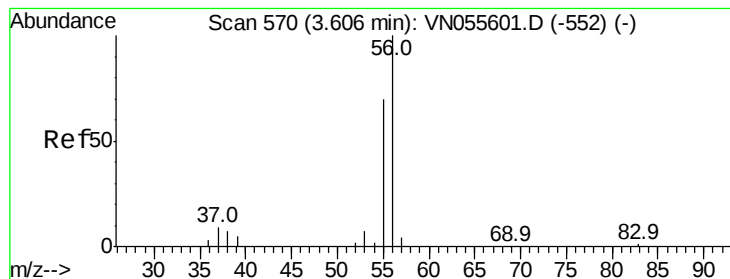
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#12
1,1-Dichloroethene
Concen: 48.220 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 96 Resp: 147875
Ion Ratio Lower Upper
96 100
61 147.4 120.2 180.2
98 63.8 50.6 75.8





#13

Acrolein

Concen: 241.223 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion: 56 Resp: 84446

Ion Ratio Lower Upper

56 100

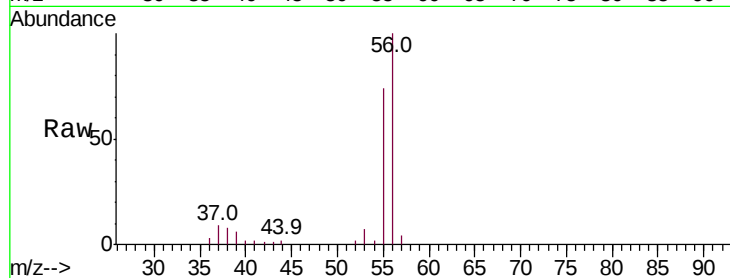
55 71.4 56.5 84.7

Manual Integrations

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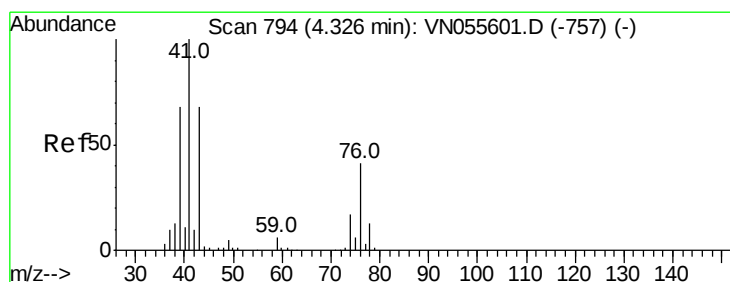
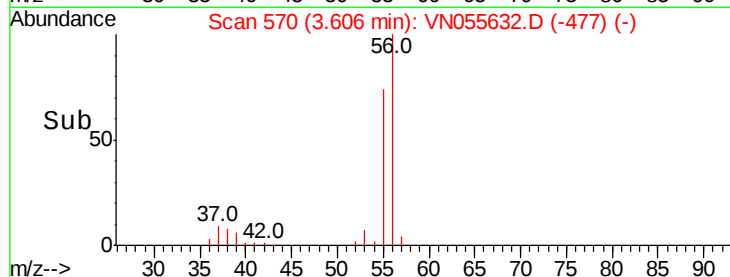
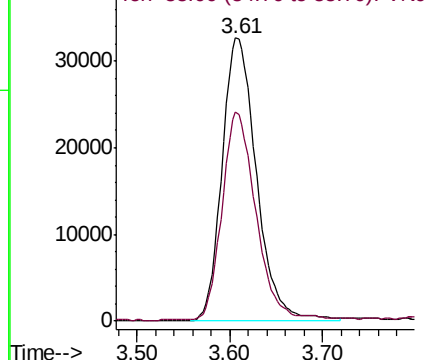
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 42.467 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

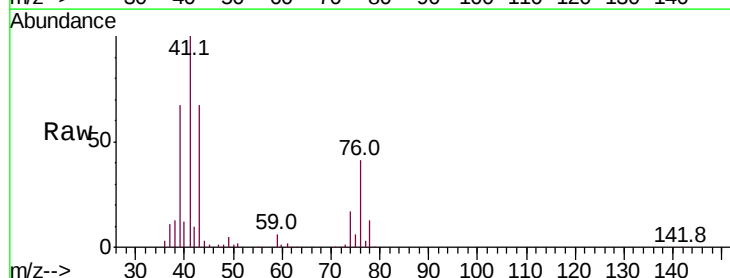
Tgt Ion: 41 Resp: 210240

Ion Ratio Lower Upper

41 100

39 68.3 50.5 75.7

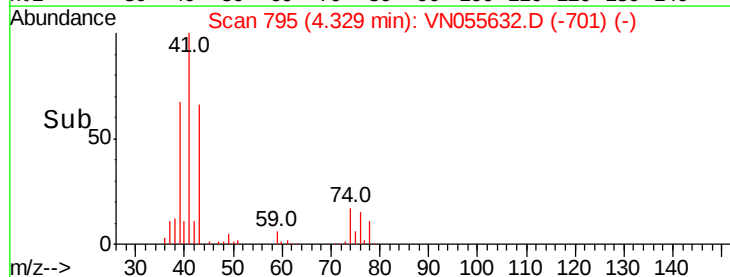
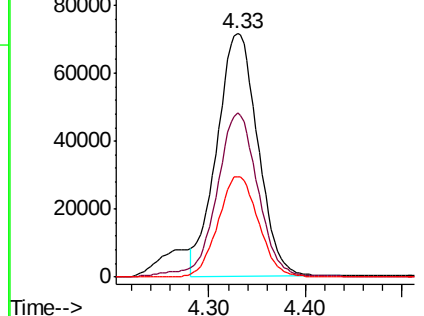
76 40.9 29.2 43.8

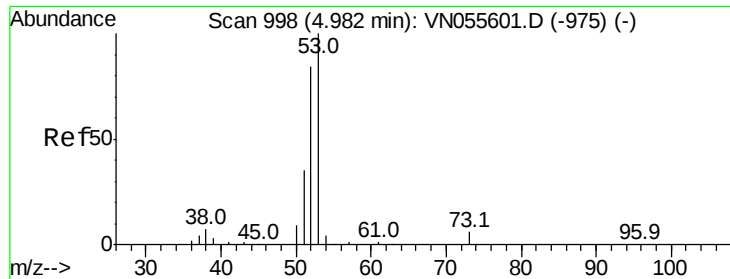


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 256.839 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

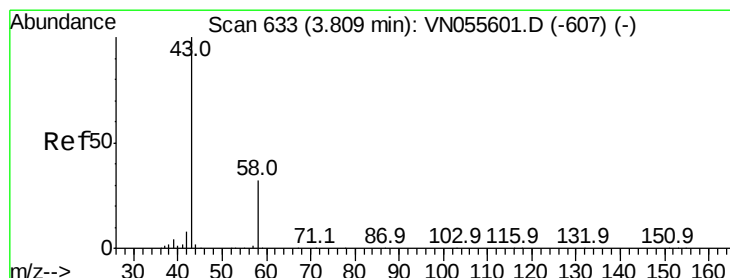
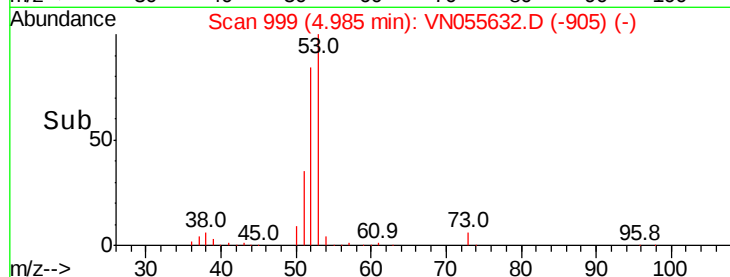
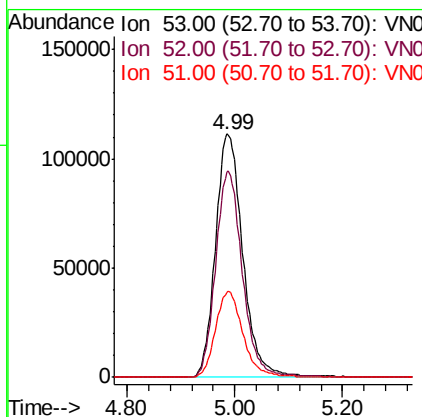
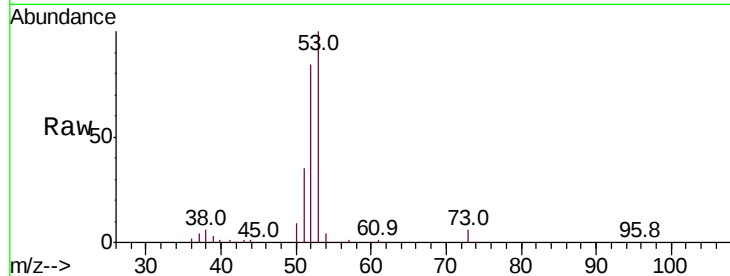
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:	53	Resp:	392245
Ion Ratio	Lower	Upper	
53	100		
52	83.0	66.2	99.4
51	35.6	28.5	42.7

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#16

Acetone

Concen: 212.567 ug/l

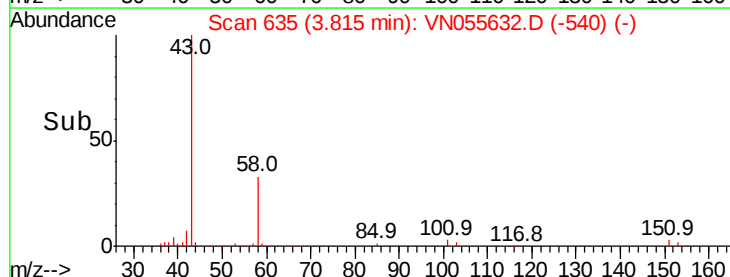
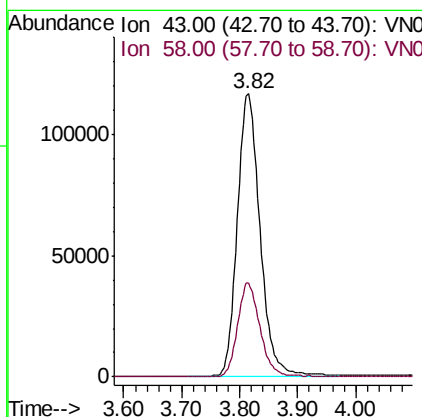
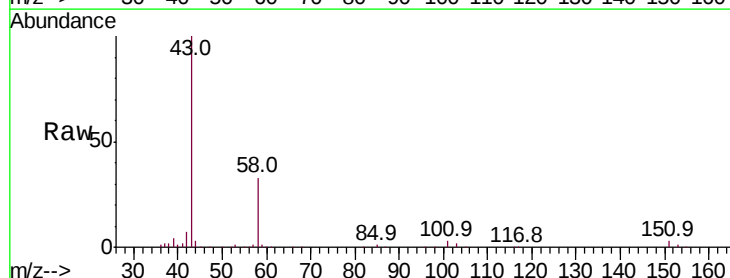
RT: 3.82 min Scan# 635

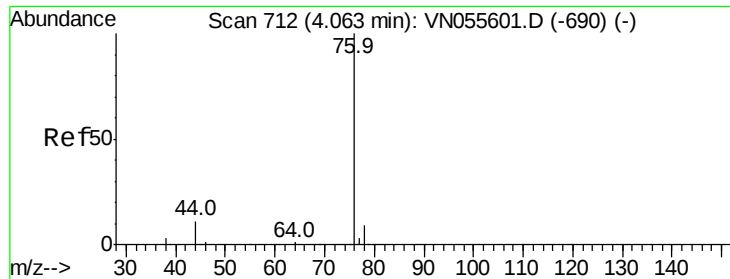
Delta R.T. 0.01 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	43	Resp:	319313
Ion Ratio	Lower	Upper	
43	100		
58	33.2	26.0	39.0





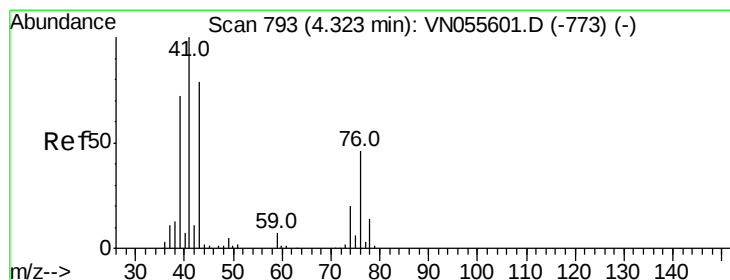
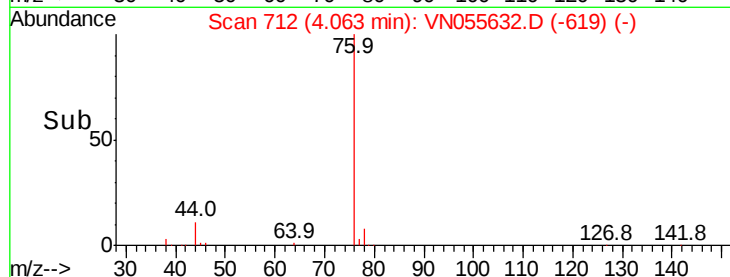
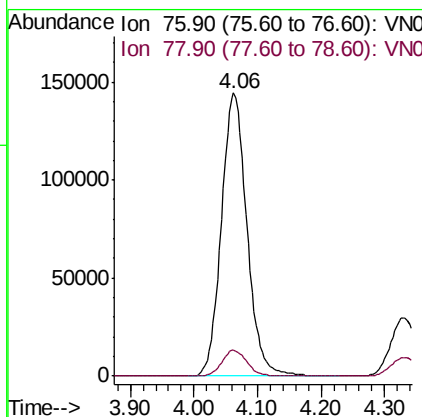
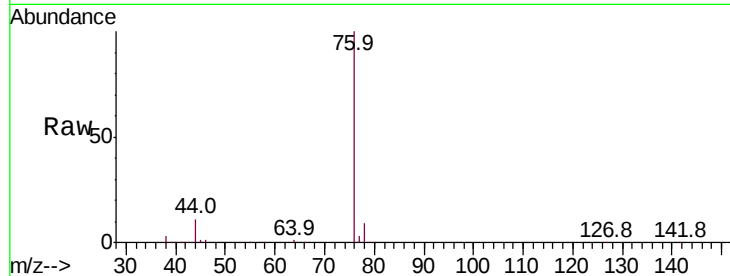
#17
Carbon Disulfide
Concen: 47.192 ug/l
RT: 4.06 min Scan# 712
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 76 Resp: 402317
Ion Ratio Lower Upper
76 100
78 9.2 7.3 10.9

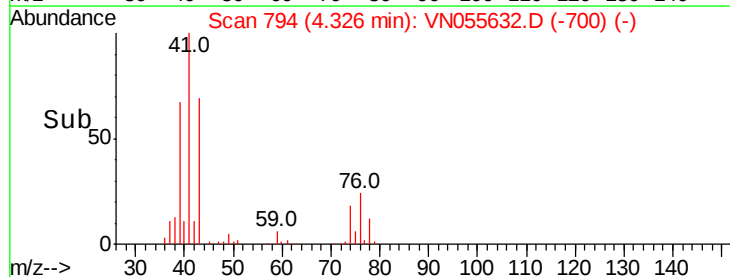
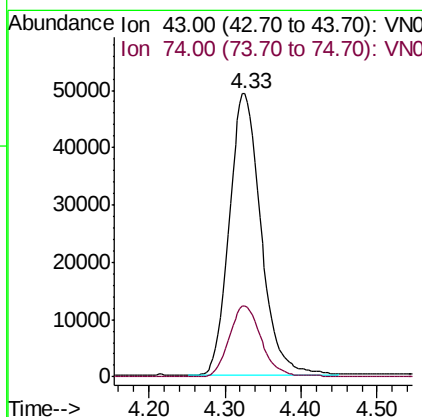
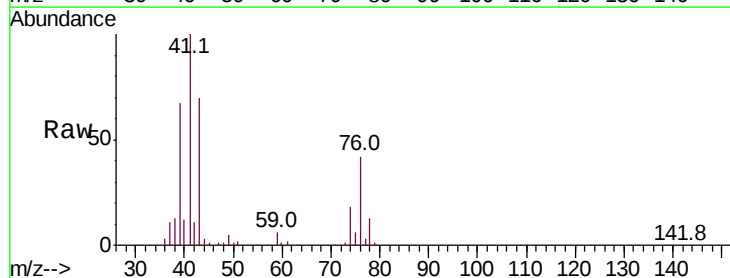
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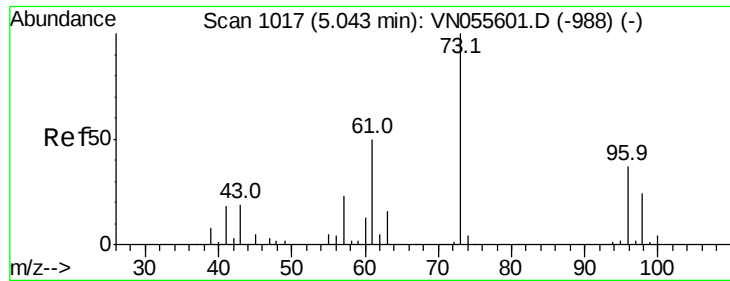
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#18
Methyl Acetate
Concen: 44.371 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 43 Resp: 142894
Ion Ratio Lower Upper
43 100
74 25.7 19.9 29.9





#19

Methyl tert-butyl Ether

Concen: 48.664 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

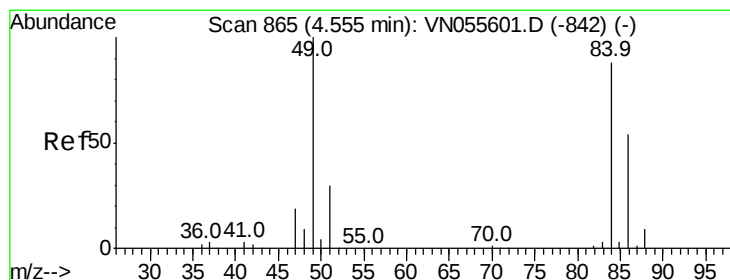
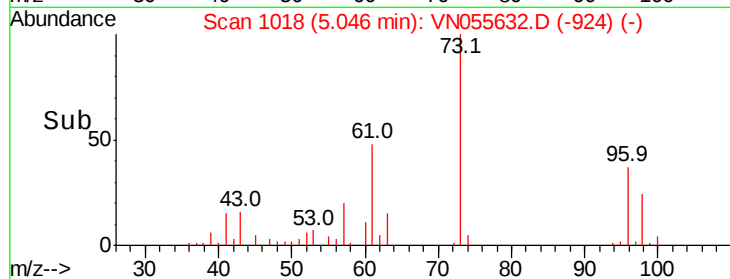
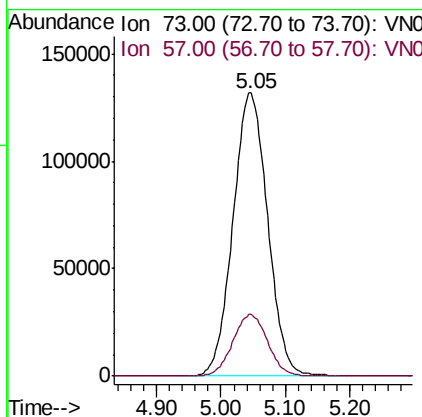
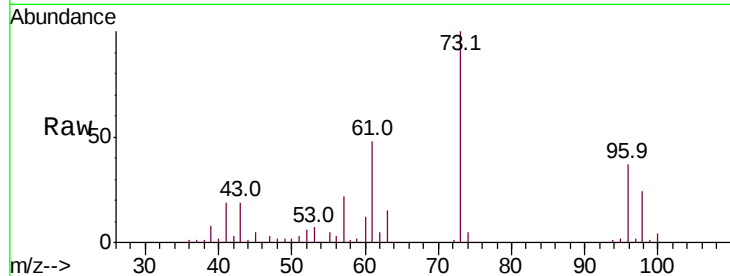
Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 73 Resp: 493709

Ion	Ratio	Lower	Upper
73	100		
57	21.9	18.2	27.2

Manual Integrations
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#20

Methylene Chloride

Concen: 47.169 ug/l

RT: 4.56 min Scan# 866

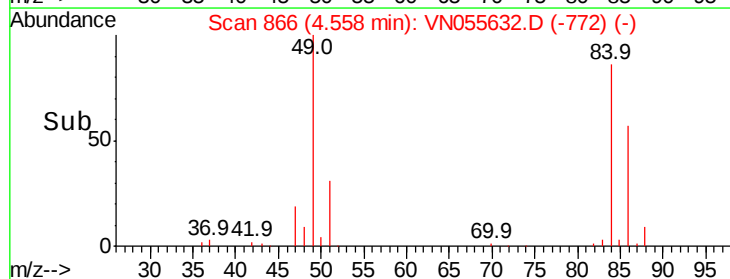
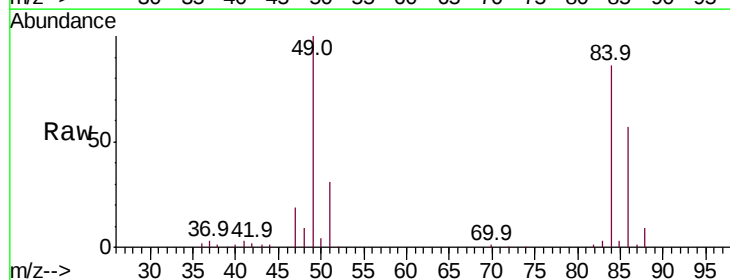
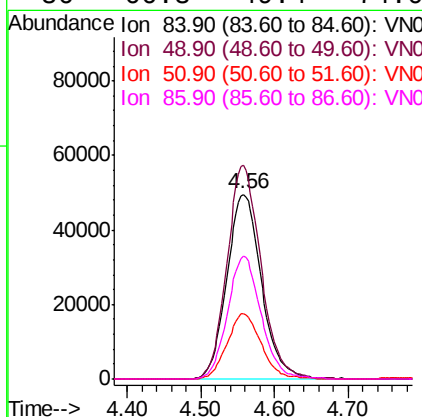
Delta R.T. 0.00 min

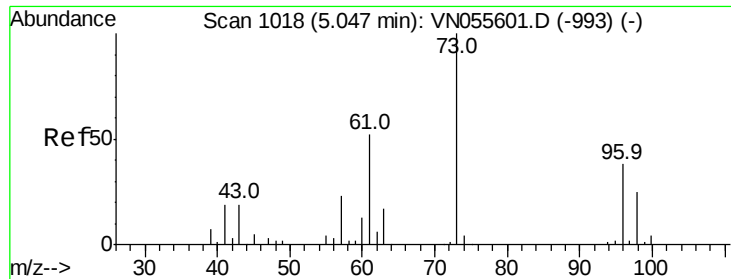
Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion: 84 Resp: 161705

Ion	Ratio	Lower	Upper
84	100		
49	115.7	91.0	136.4
51	35.5	27.5	41.3
86	66.3	49.4	74.0





#21

trans-1,2-Dichloroethene

Concen: 48.177 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN055632.D

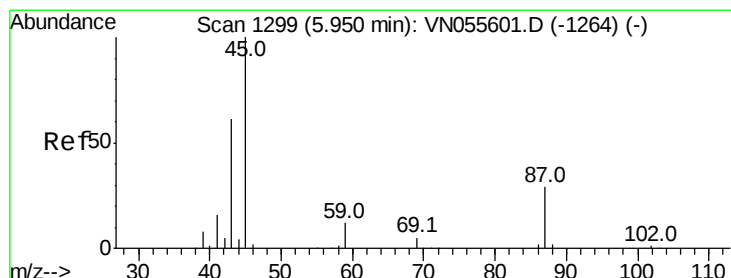
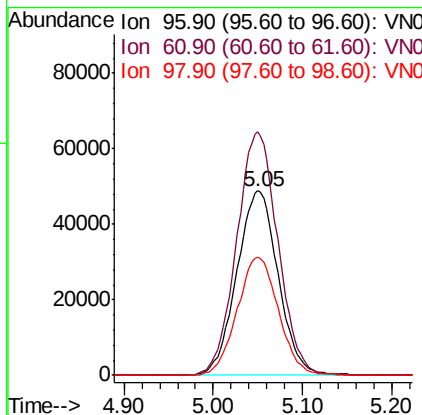
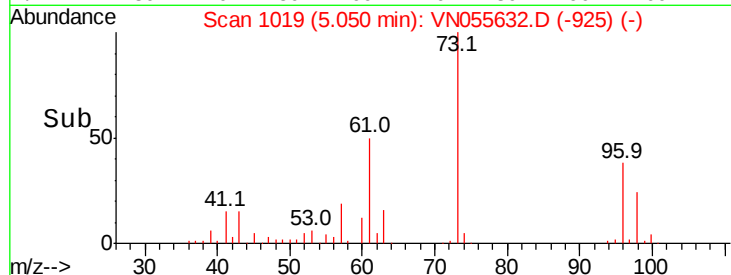
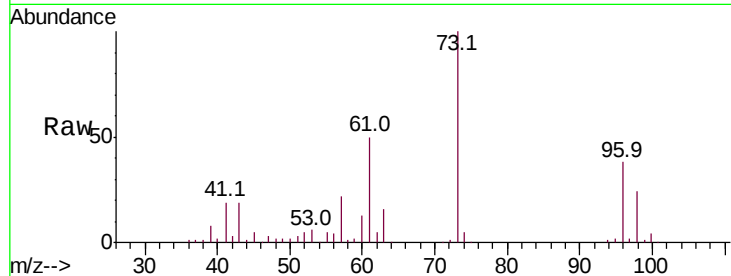
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion:	96	Resp:	157386
Ion	Ratio	Lower	Upper
96	100		
61	131.9	108.6	162.8
98	64.0	51.4	77.0

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#22

Diisopropyl ether

Concen: 47.627 ug/l

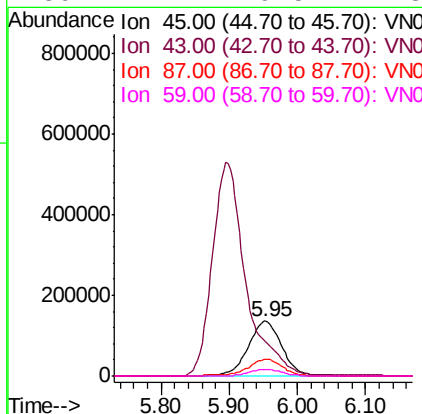
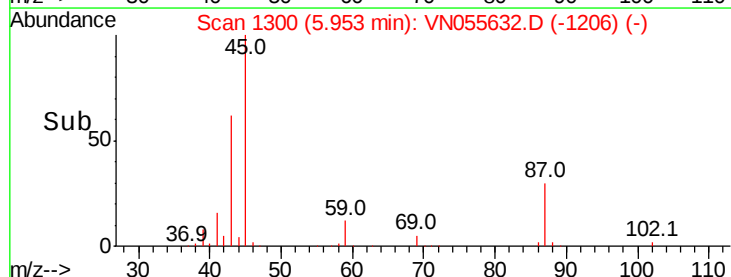
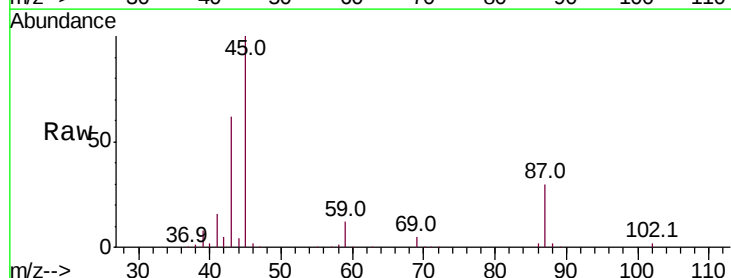
RT: 5.95 min Scan# 1300

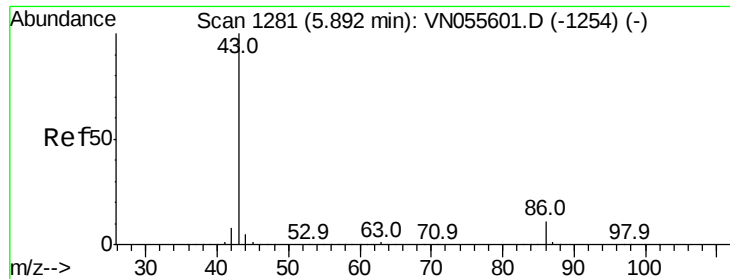
Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	45	Resp:	467224
Ion	Ratio	Lower	Upper
45	100		
43	60.0	50.4	75.6
87	29.9	23.8	35.6
59	12.2	9.5	14.3





#23

Vinyl Acetate

Concen: 216.591 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion: 43 Resp: 1802910

Ion Ratio Lower Upper

43 100

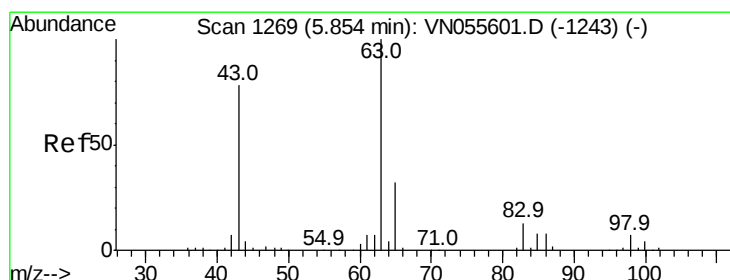
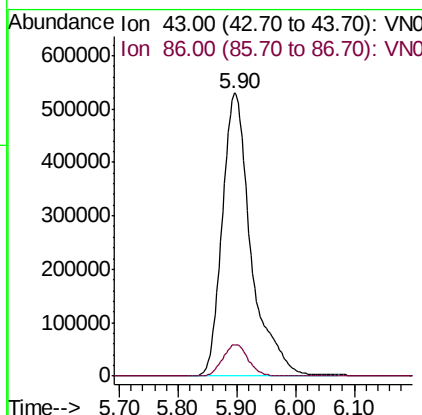
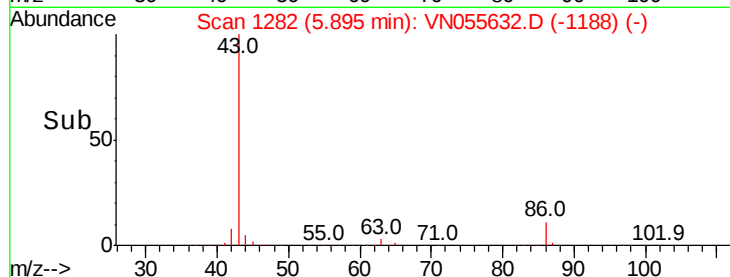
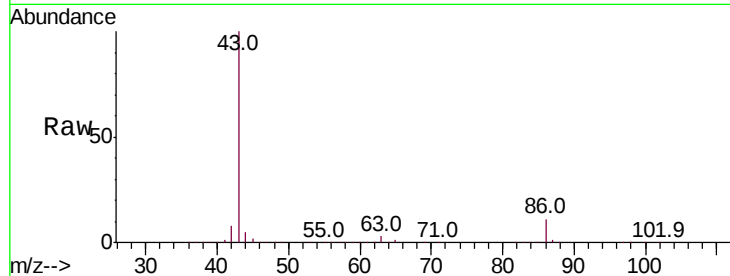
86 11.2 8.7 13.1

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#24

1,1-Dichloroethane

Concen: 48.233 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

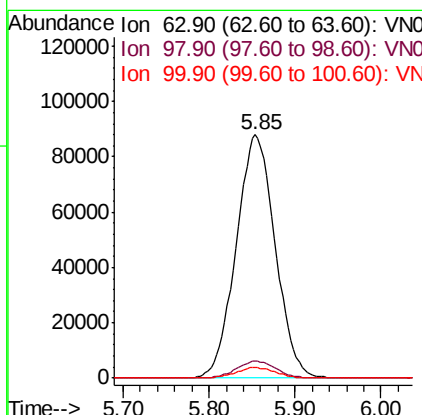
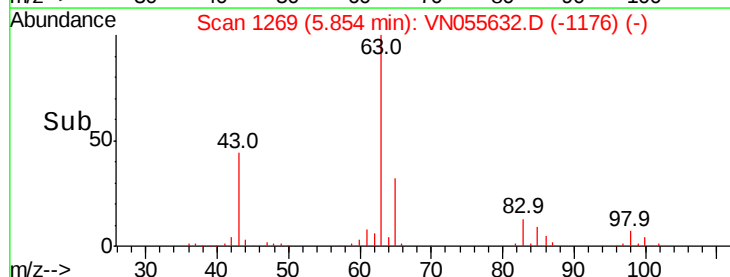
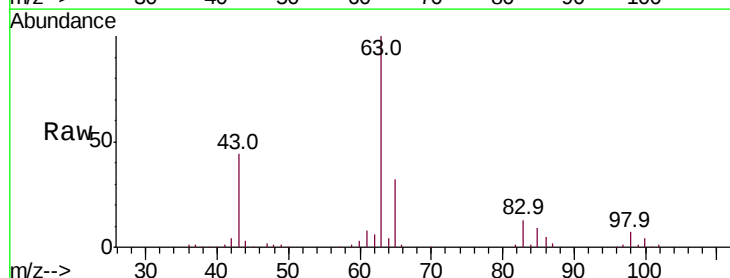
Tgt Ion: 63 Resp: 277441

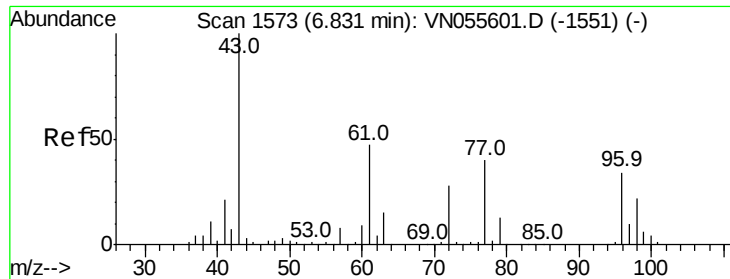
Ion Ratio Lower Upper

63 100

98 7.1 3.4 10.2

100 4.5 2.2 6.6





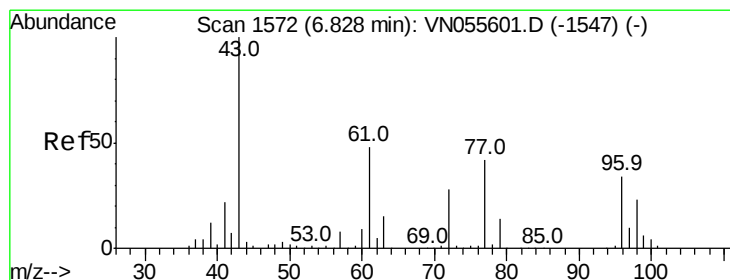
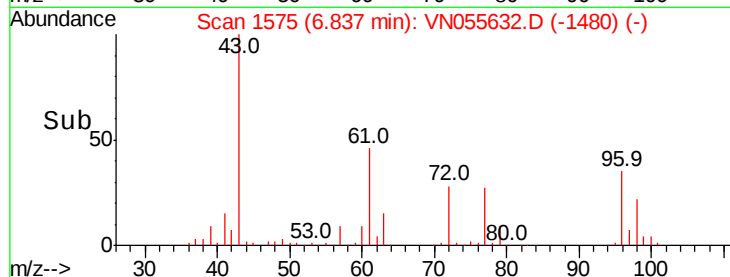
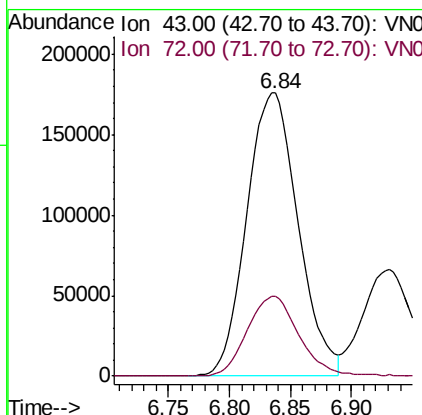
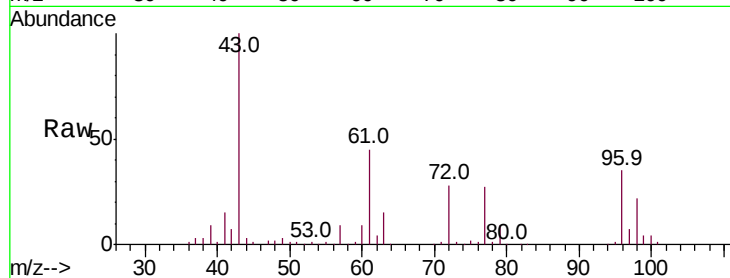
#25
2-Butanone
Concen: 243.932 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 43 Resp: 512347
Ion Ratio Lower Upper
43 100
72 28.4 22.3 33.5

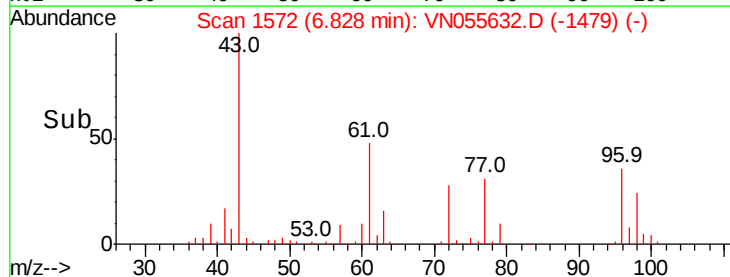
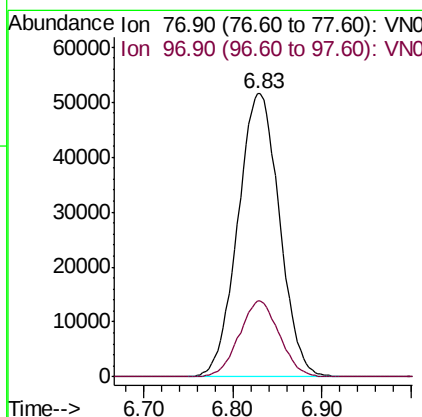
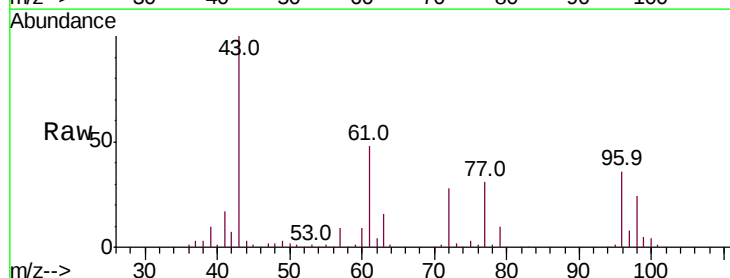
Manual Integrations
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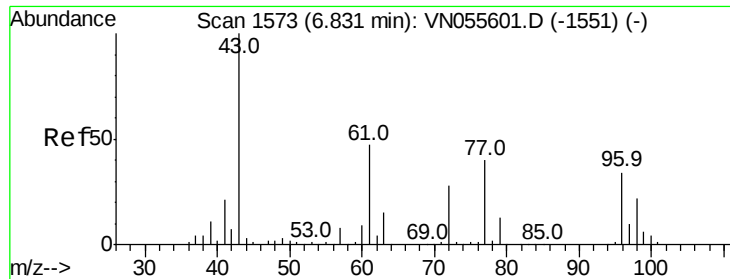
MMDadoda
5/20/2019 9:09:20 AM



#26
2,2-Dichloropropane
Concen: 32.689 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 77 Resp: 166878
Ion Ratio Lower Upper
77 100
97 25.9 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 47.920 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

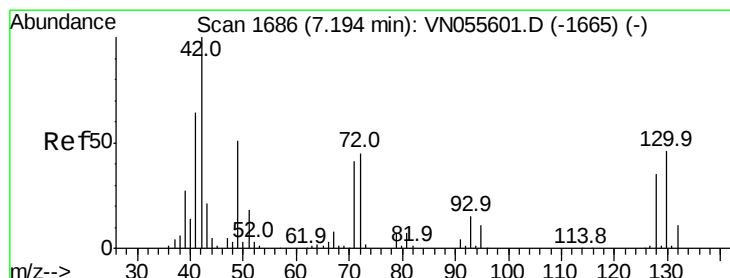
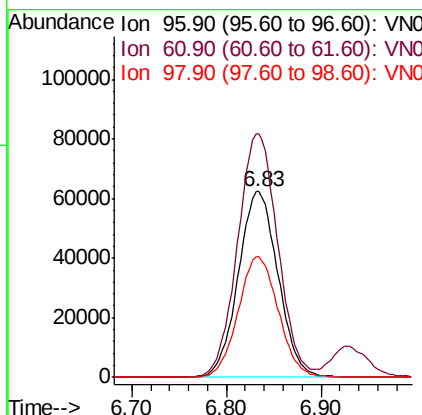
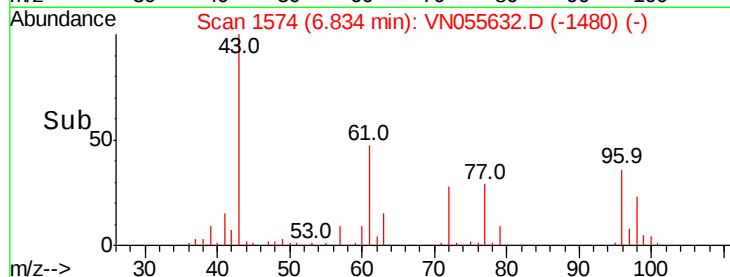
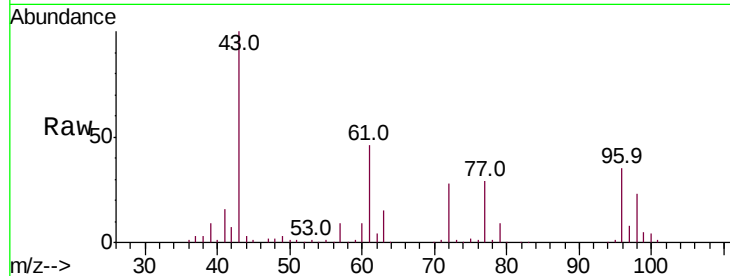
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:	96	Resp:	182290
Ion	Ratio	Lower	Upper
96	100		
61	132.3	0.0	279.0
98	65.5	0.0	131.6

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#28

Bromochloromethane

Concen: 50.467 ug/l

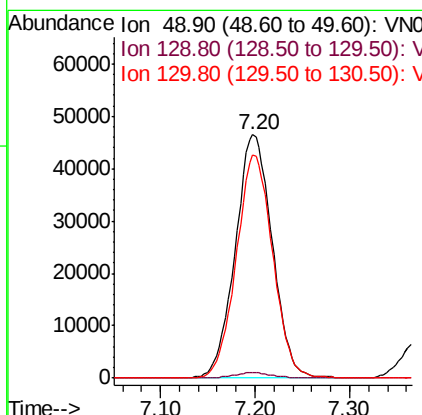
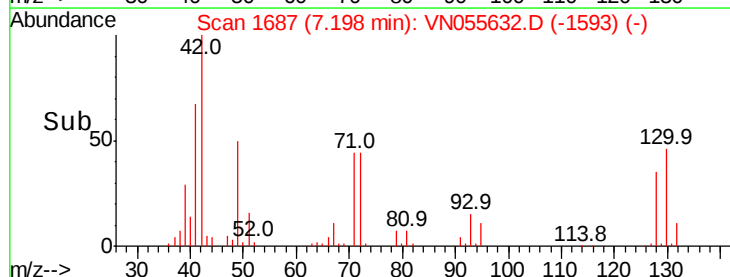
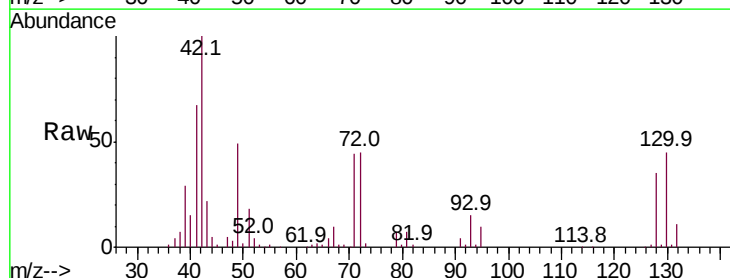
RT: 7.20 min Scan# 1687

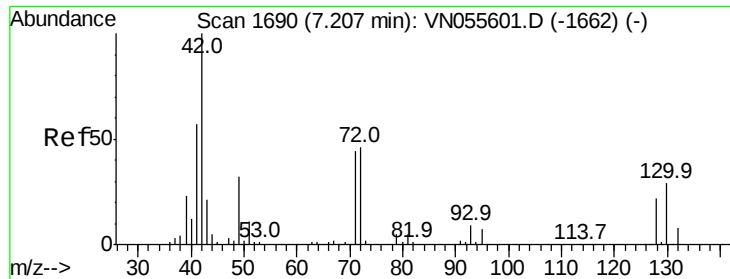
Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	49	Resp:	126291
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	90.5	71.0	106.6





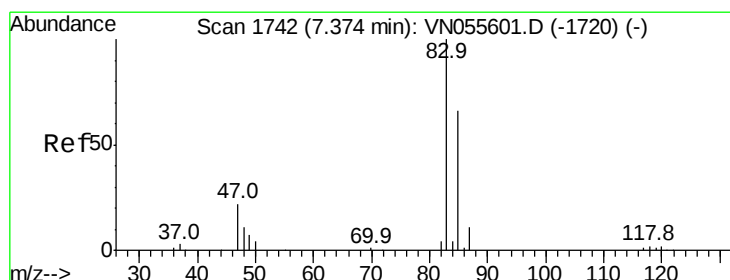
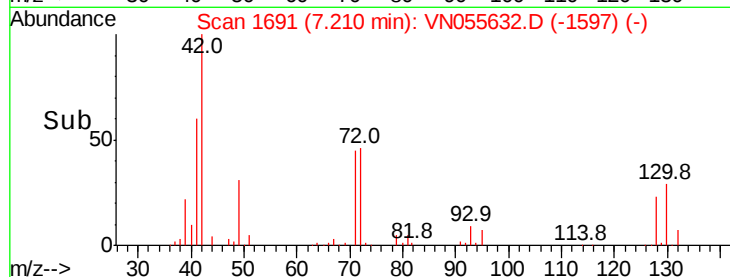
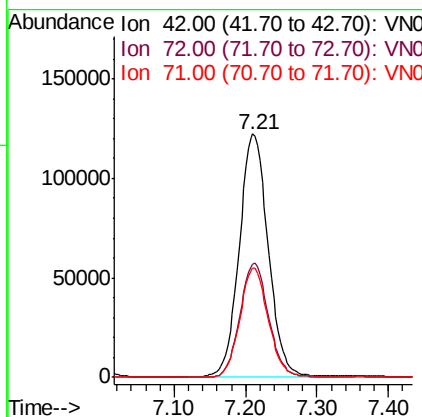
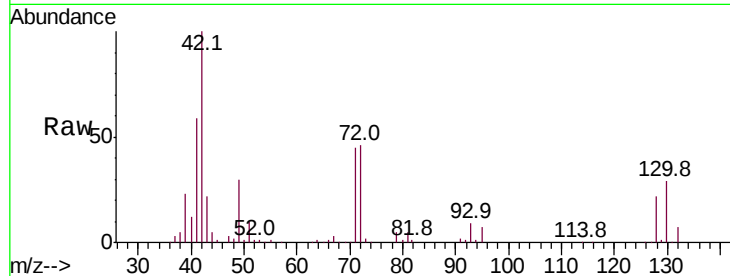
#29
Tetrahydrofuran
Concen: 248.045 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.7	36.5	54.7
71	44.2	34.9	52.3

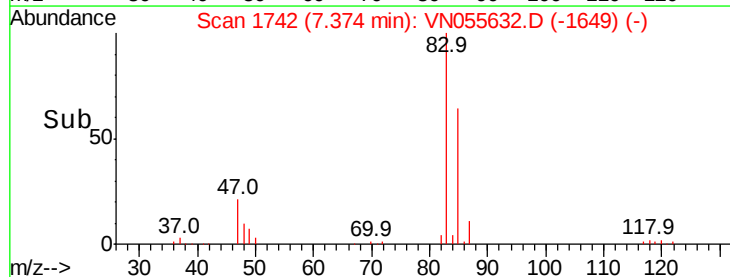
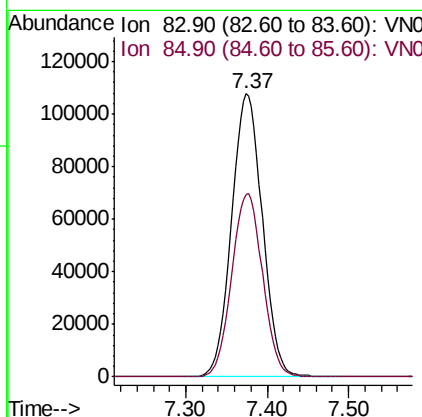
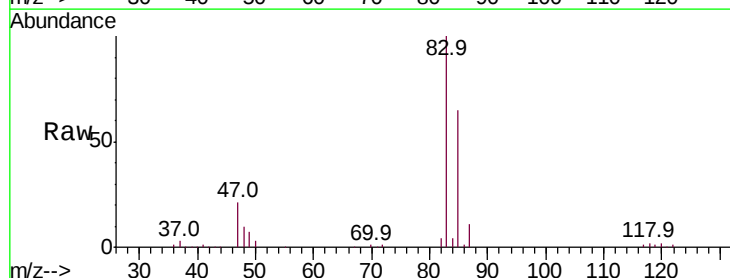
Manual Integrations
APPROVED

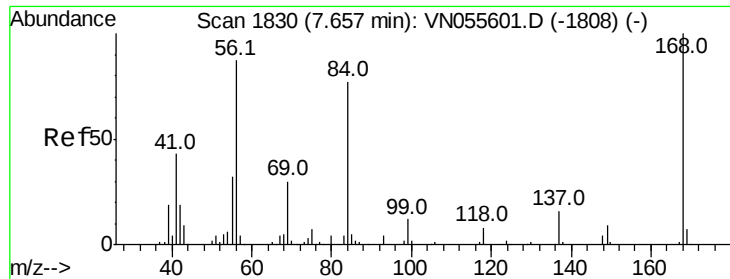
MMDadoda
5/20/2019 9:09:20 AM



#30
Chloroform
Concen: 48.049 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.6	78.8





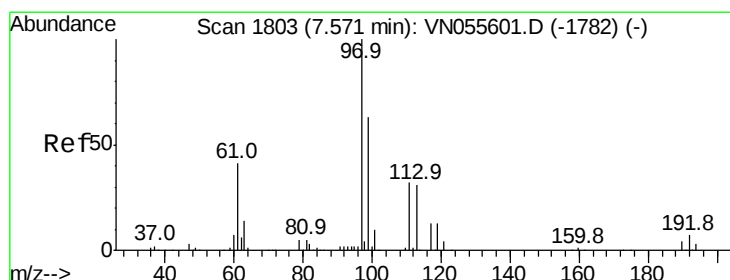
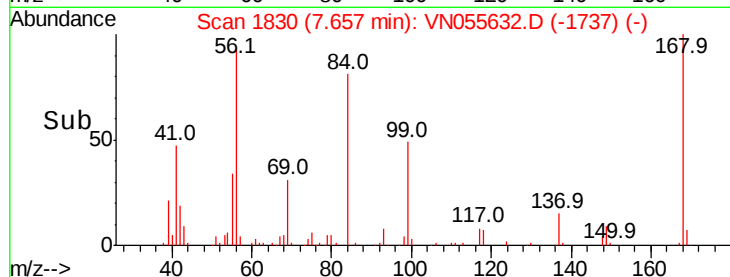
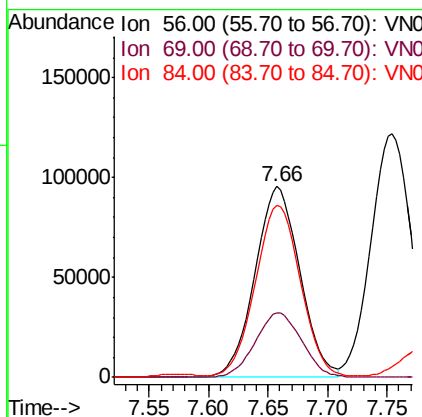
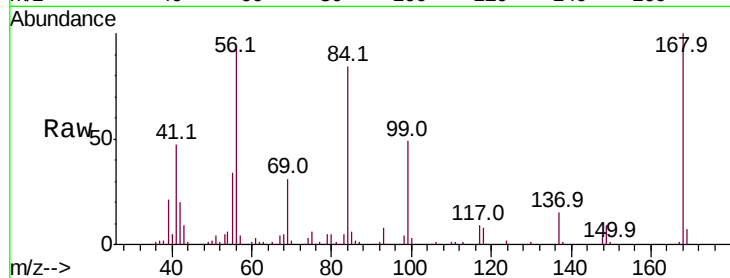
#31
Cyclohexane
Concen: 45.710 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.9	27.2	40.8
84	88.9	71.3	106.9

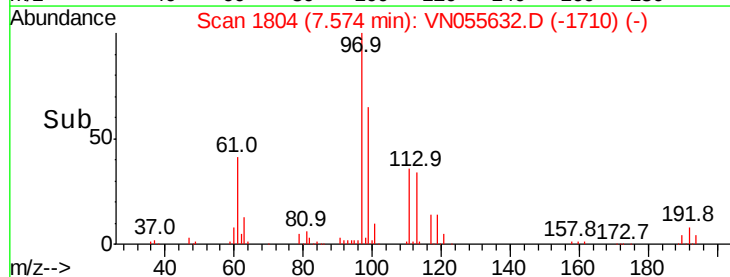
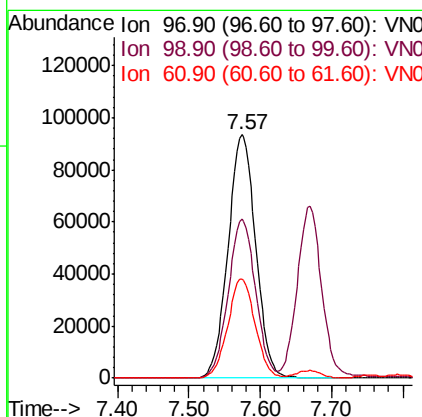
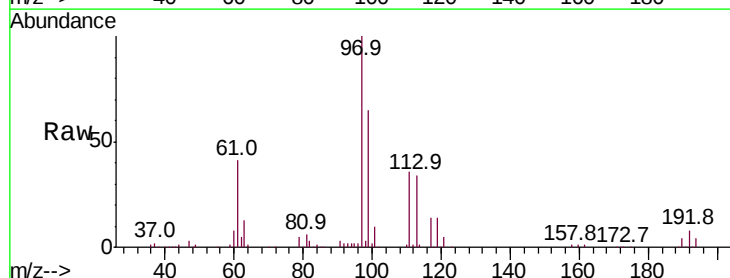
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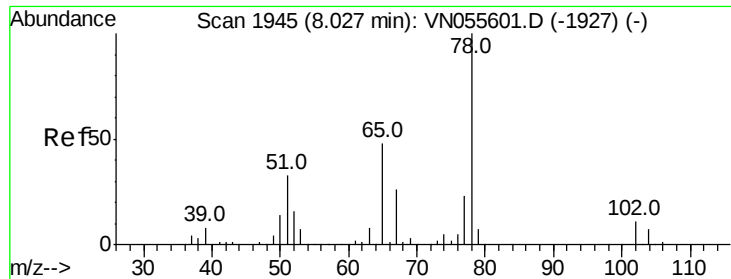
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5/20/2019 9:09:20 AM



#32
1,1,1-Trichloroethane
Concen: 47.616 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.4	77.2
61	40.3	32.9	49.3





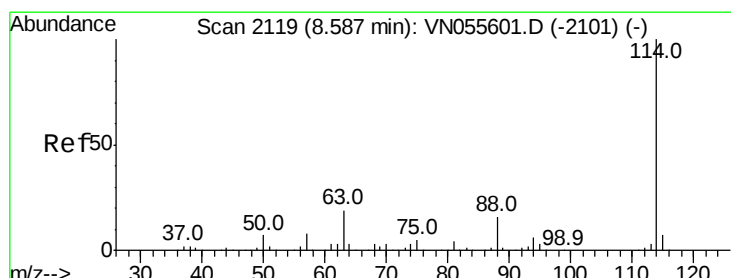
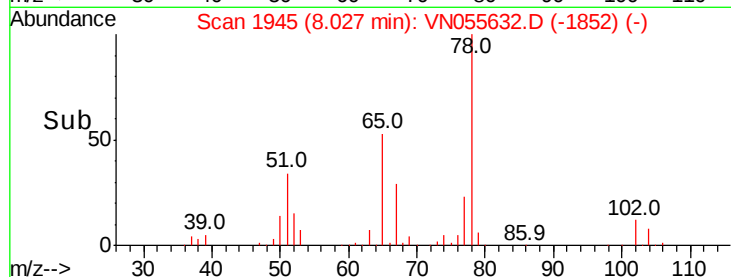
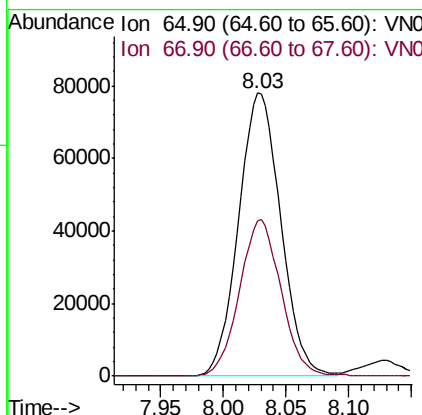
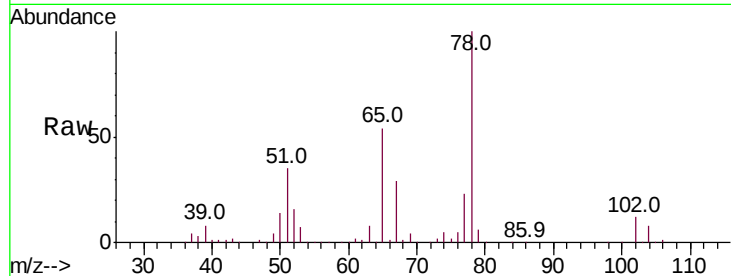
#33
 1,2-Dichloroethane-d4
 Concen: 49.623 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	182659		
67	54.6	0.0	108.6	

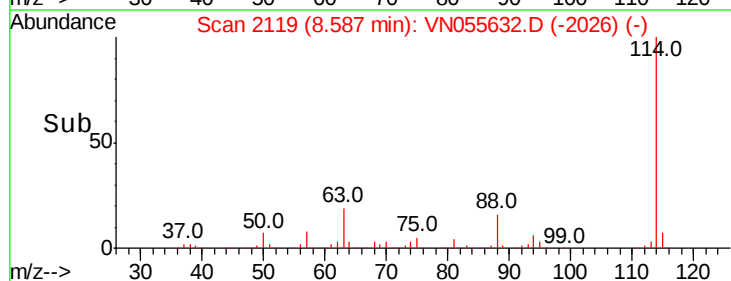
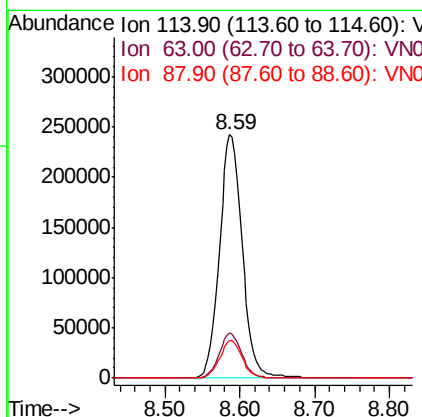
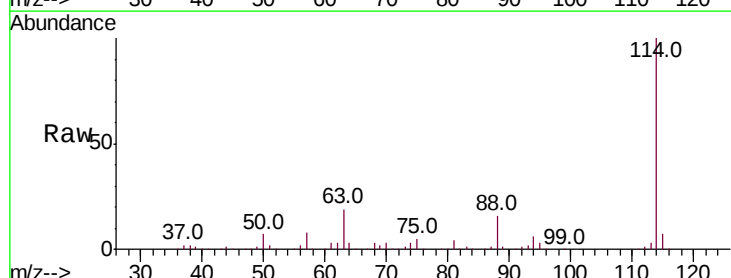
Manual Integrations
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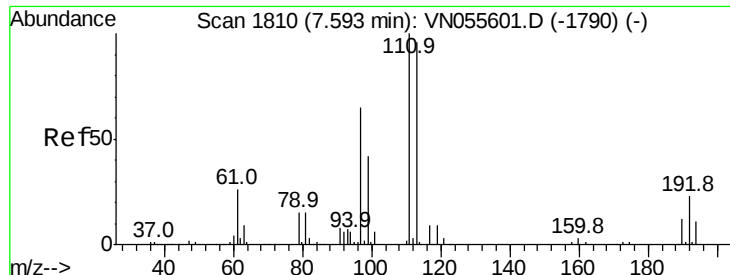
MMDadoda
 5/20/2019 9:09:20 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	509566		
63	18.5	0.0	38.2	
88	15.5	0.0	31.0	





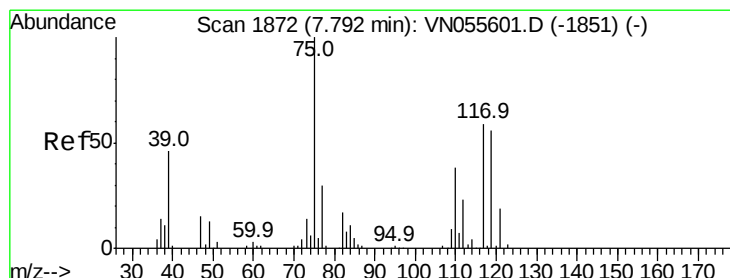
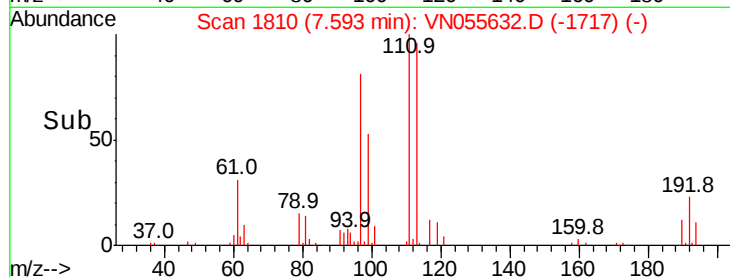
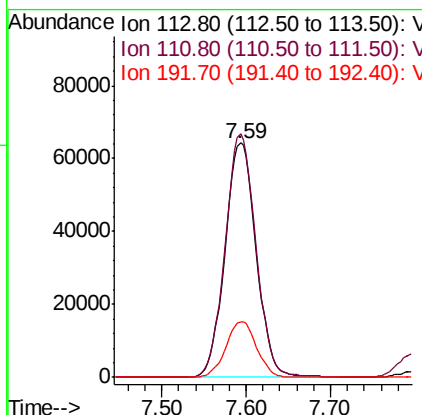
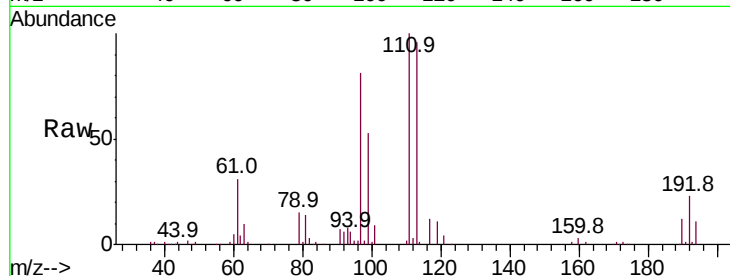
#35
 Dibromofluoromethane
 Concen: 51.061 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	165284		
111	102.5	82.5	123.7	
192	23.4	18.7	28.1	

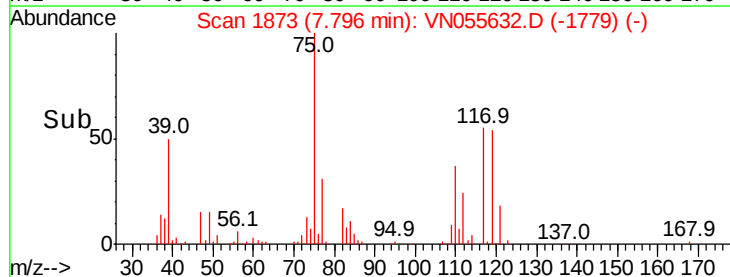
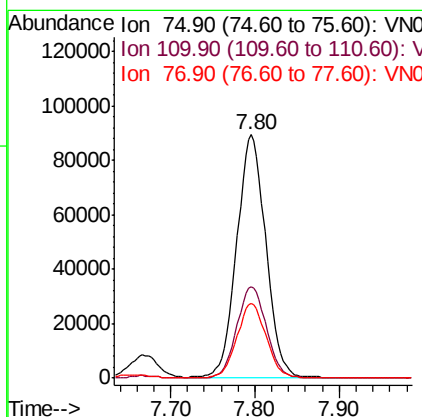
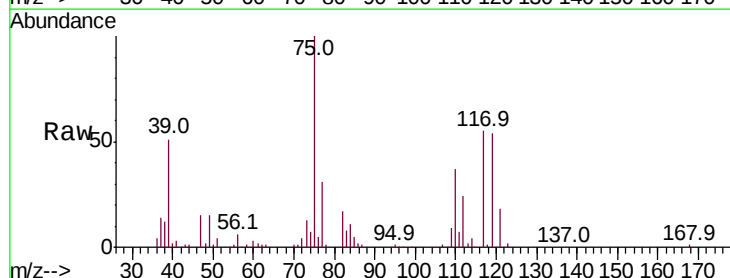
Manual Integrations
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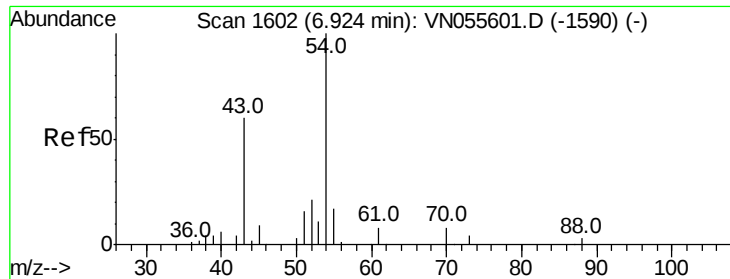
MMDadoda
 5/20/2019 9:09:20 AM



#36
 1,1-Dichloropropene
 Concen: 47.657 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	216508		
110	38.0	18.6	55.6	
77	30.9	24.9	37.3	





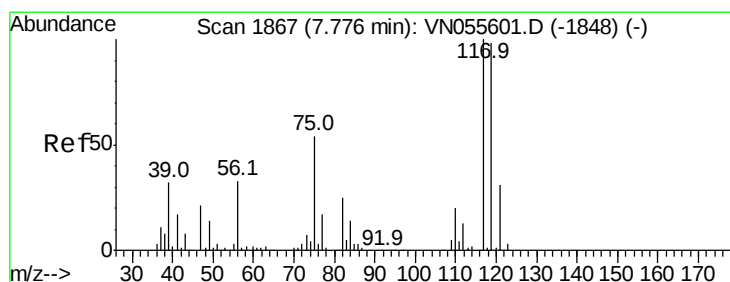
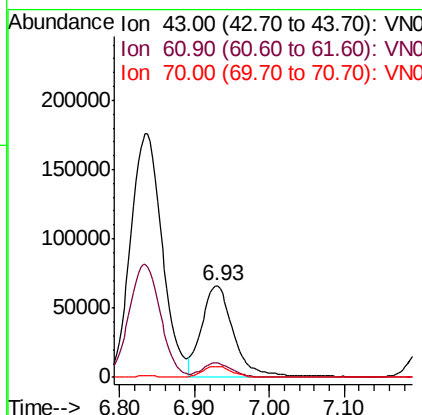
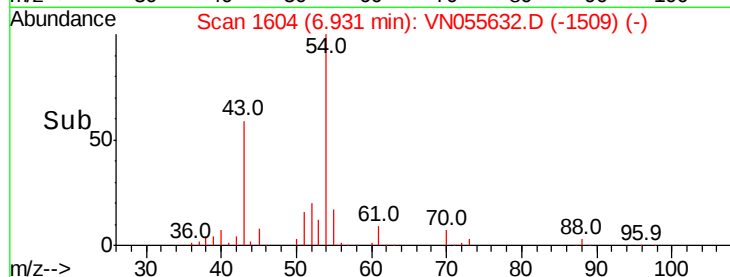
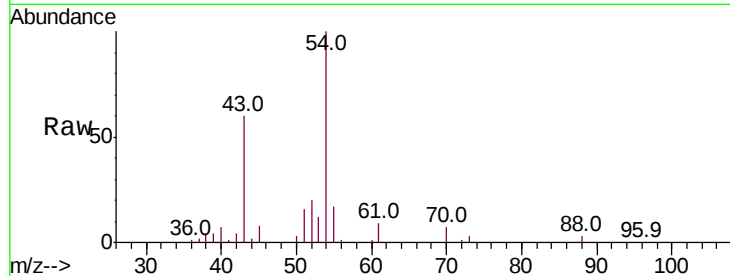
#37
Ethyl Acetate
Concen: 46.822 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.01 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.4	17.0
70	11.6	9.2	13.8

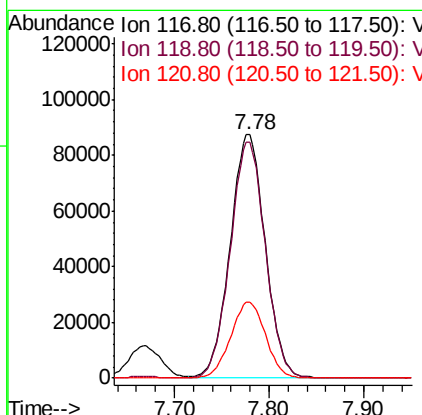
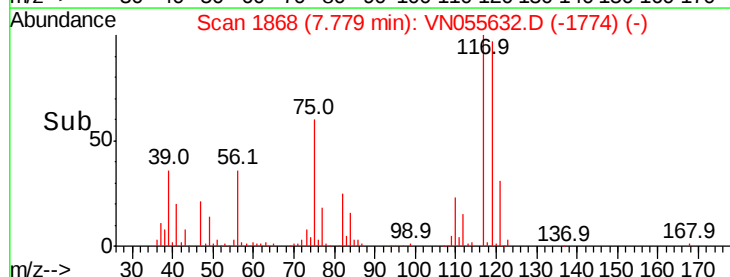
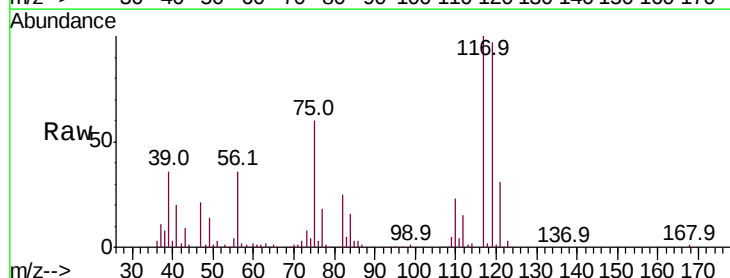
Manual Integrations
APPROVED

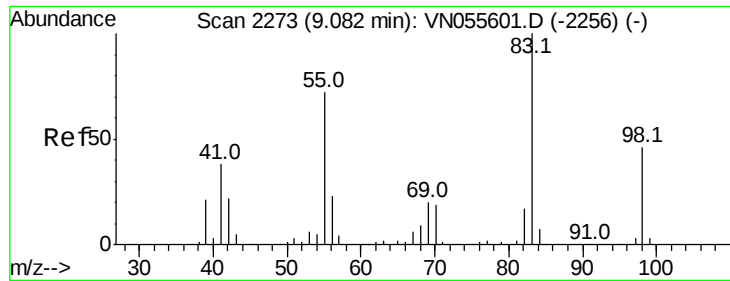
MMDadoda
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#38
Carbon Tetrachloride
Concen: 46.431 ug/l
RT: 7.78 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.8	116.8
121	31.1	24.6	37.0





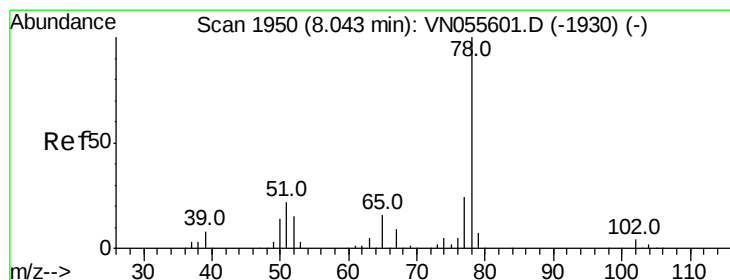
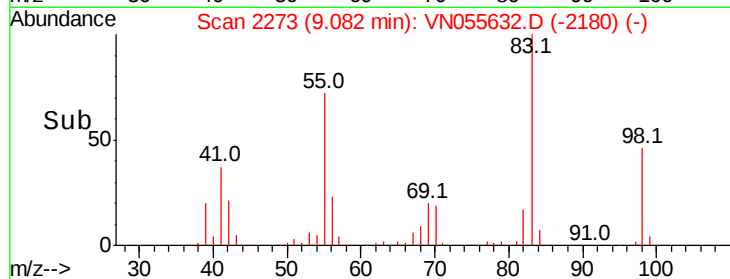
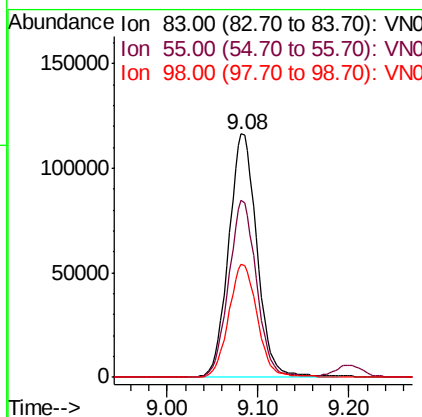
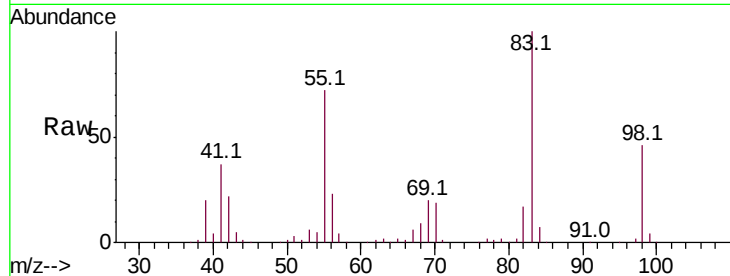
#39
Methvlcvclohexane
Concen: 46.004 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	72.3	57.8	86.6
98	46.4	36.7	55.1

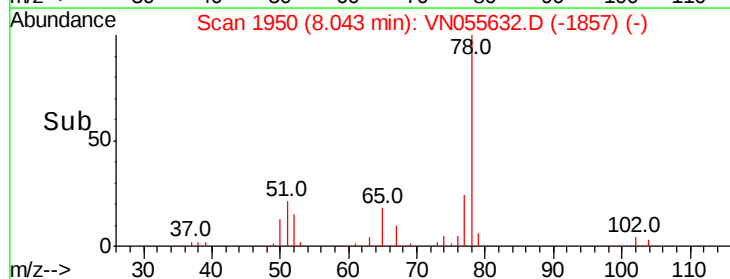
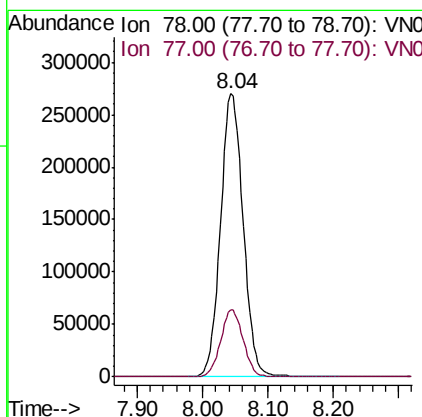
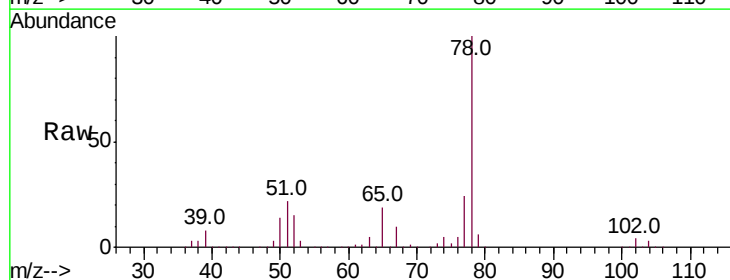
Manual Integrations
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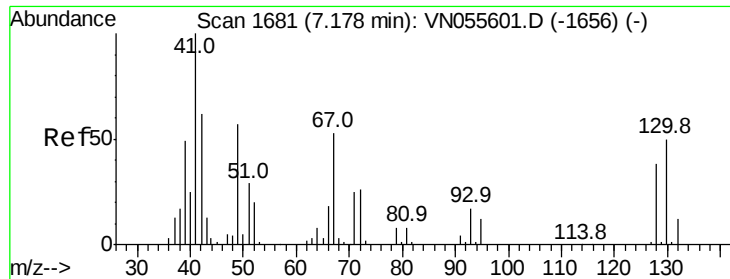
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5/20/2019 9:09:20 AM



#40
Benzene
Concen: 48.637 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3





#41

Methacrylonitrile

Concen: 46.018 ug/l m

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion: 41 Resp: 80657

Ion Ratio Lower Upper

41 100

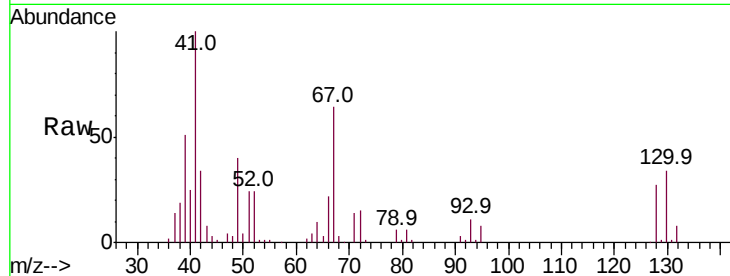
39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

Manual Integrations
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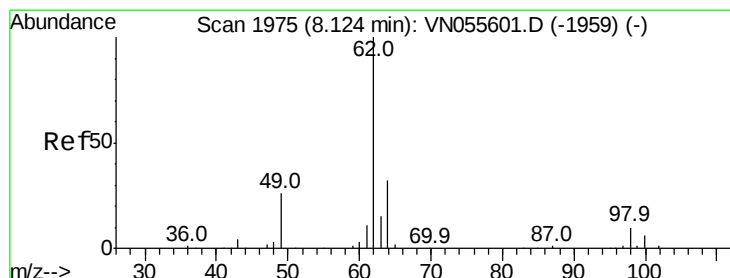
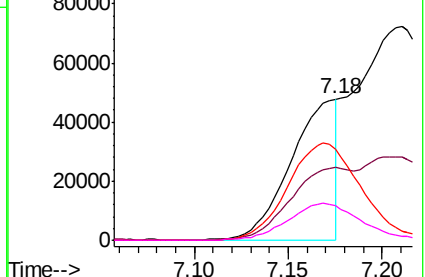
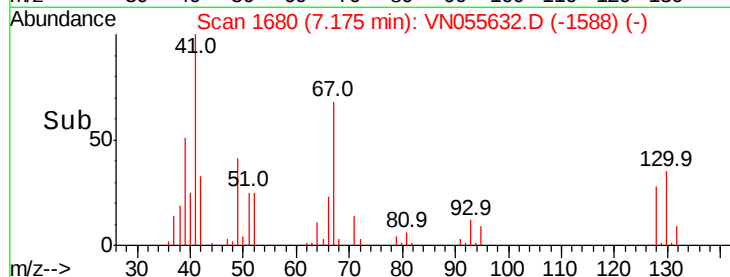


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#42

1,2-Dichloroethane

Concen: 50.108 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN055632.D

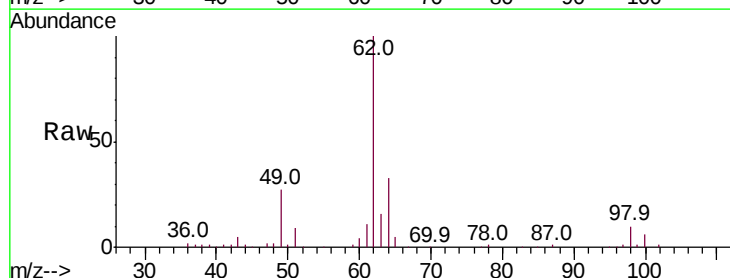
Acq: 17 May 2019 23:50

Tgt Ion: 62 Resp: 216823

Ion Ratio Lower Upper

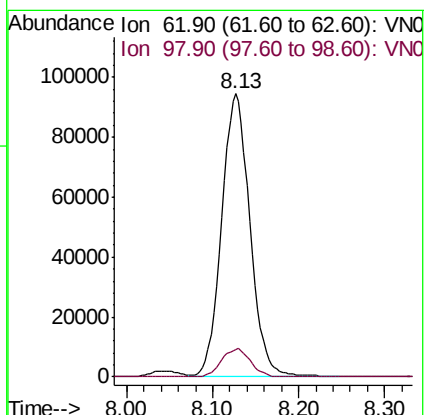
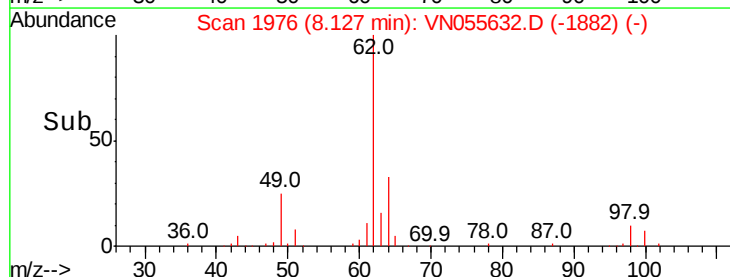
62 100

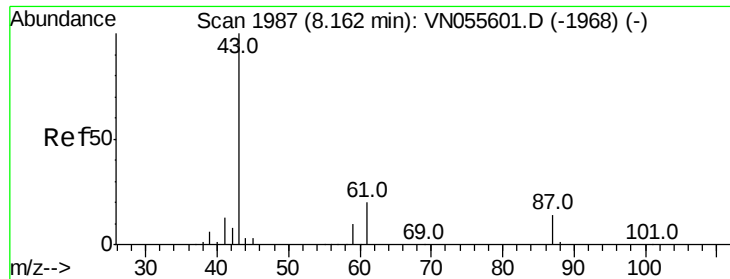
98 10.1 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 45.916 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

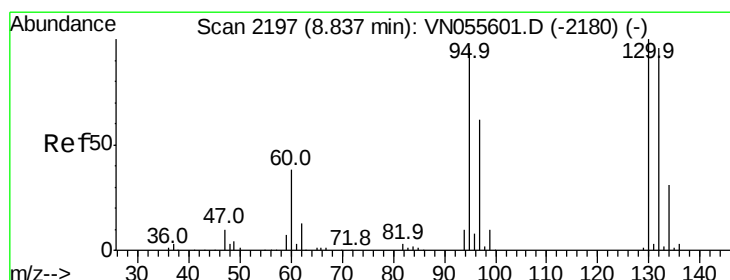
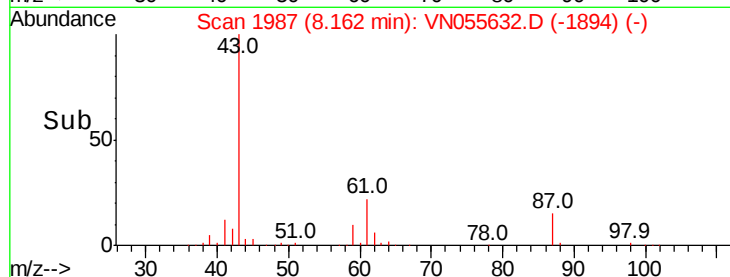
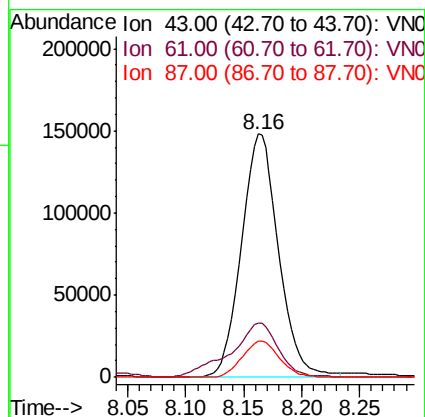
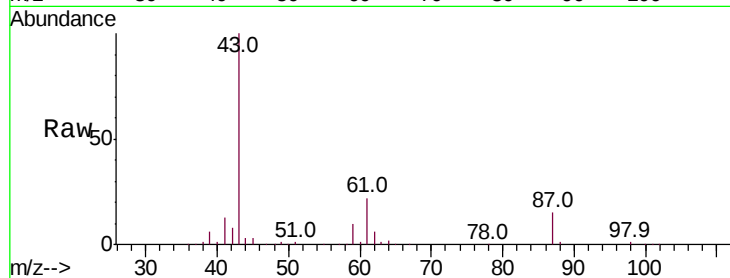
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:	43	Resp:	327433
Ion	Ratio	Lower	Upper
43	100		
61	28.7	22.1	33.1
87	15.2	11.8	17.6

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#44

Trichloroethene

Concen: 50.194 ug/l

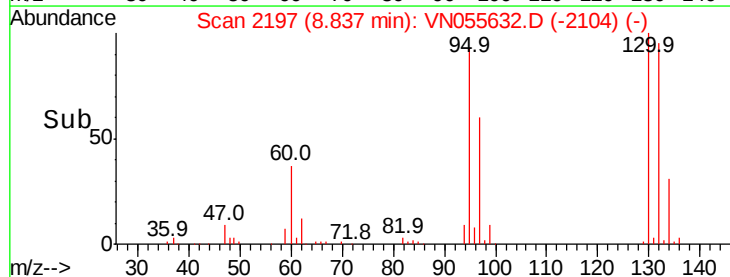
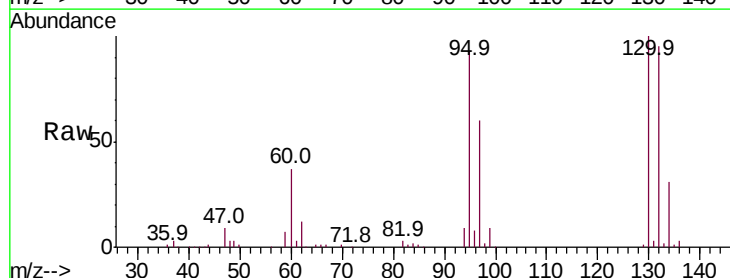
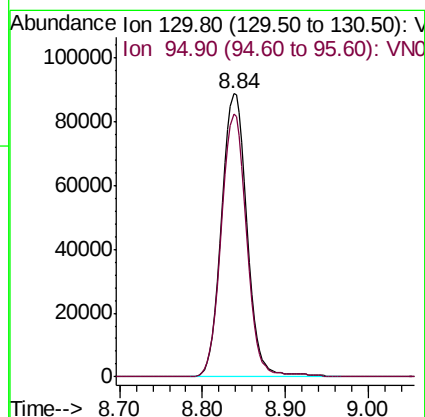
RT: 8.84 min Scan# 2197

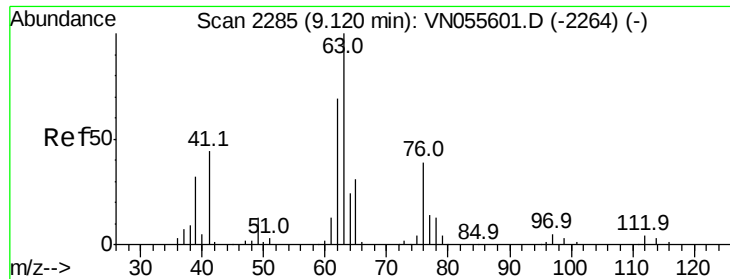
Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	130	Resp:	189259
Ion	Ratio	Lower	Upper
130	100		
95	92.7	0.0	191.0





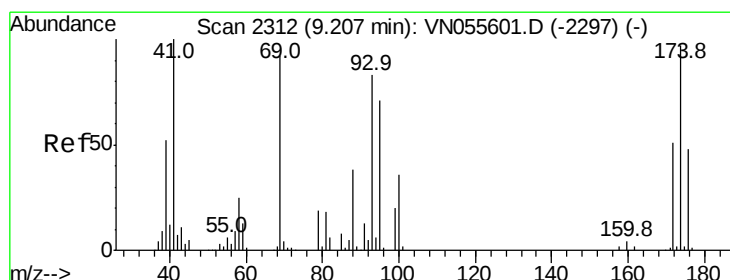
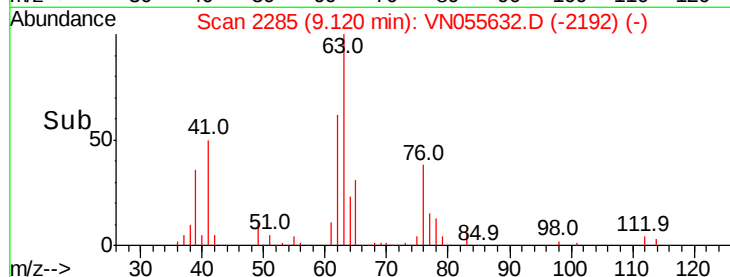
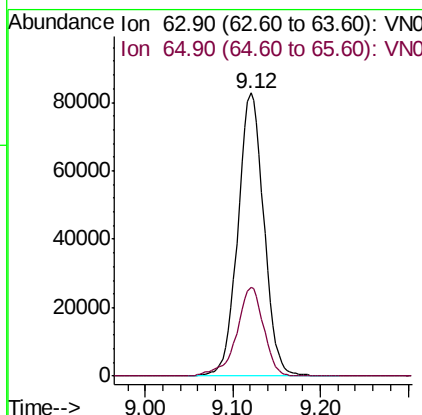
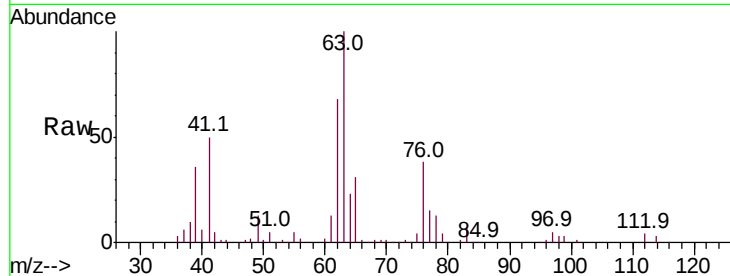
#45
 1,2-Dichloropropane
 Concen: 48.561 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion: 63 Resp: 170948
 Ion Ratio Lower Upper
 63 100
 65 31.5 25.2 37.8

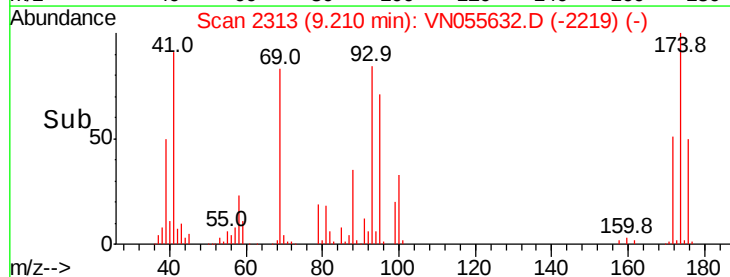
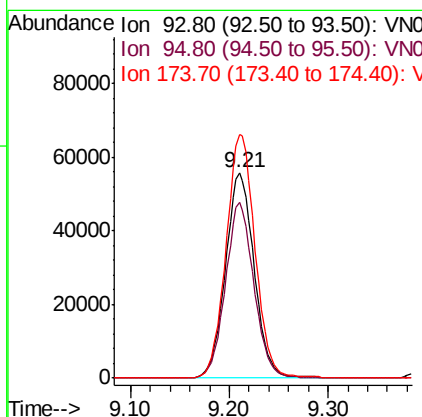
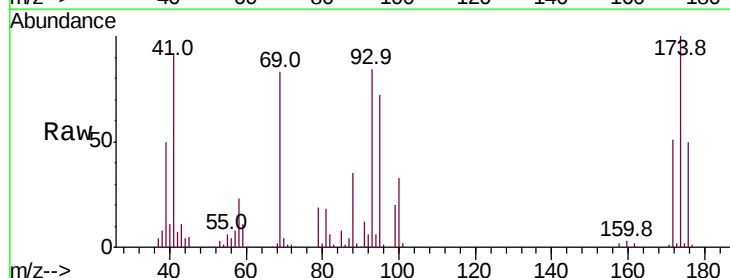
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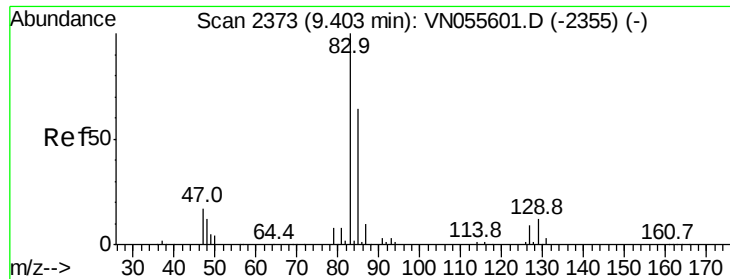
MMDadoda
 5/20/2019 9:09:20 AM



#46
 Dibromomethane
 Concen: 49.338 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion: 93 Resp: 113676
 Ion Ratio Lower Upper
 93 100
 95 84.7 67.9 101.9
 174 119.6 93.8 140.6





#47

Bromodichloromethane

Concen: 47.778 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

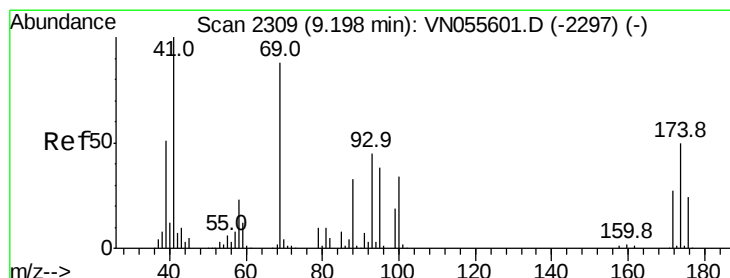
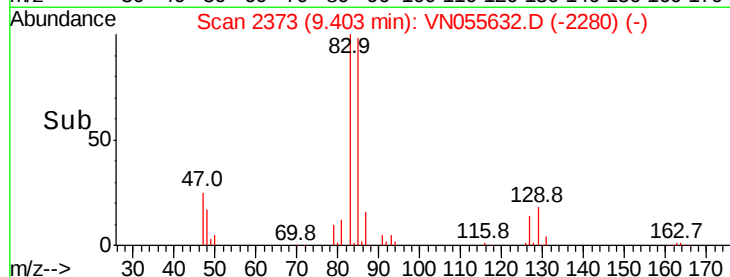
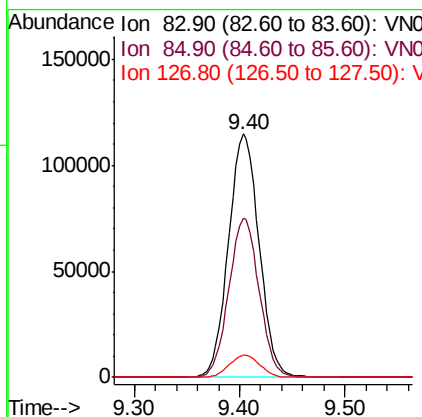
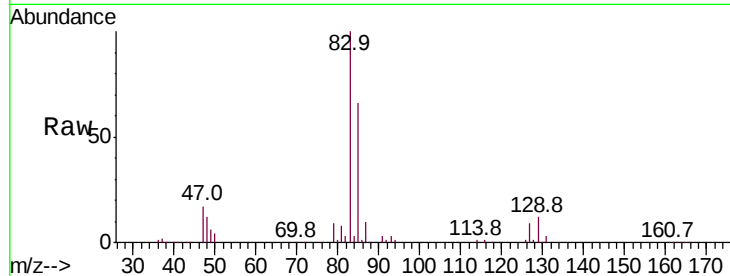
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:	83	Resp:	230715
Ion Ratio	Lower	Upper	
83	100		
85	65.5	51.4	77.0
127	9.2	7.1	10.7

Manual Integrations
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MMDadoda
5/20/2019 9:09:20 AM



#48

Methyl methacrylate

Concen: 50.081 ug/l

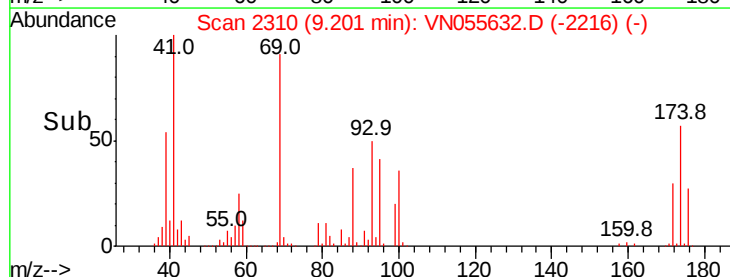
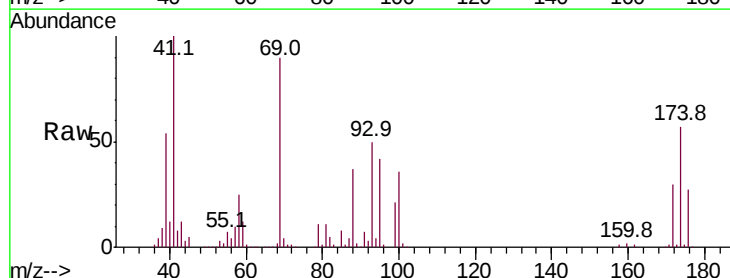
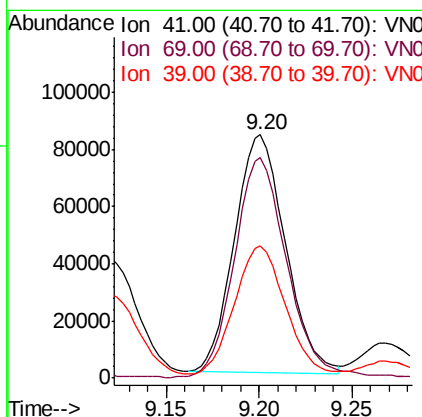
RT: 9.20 min Scan# 2310

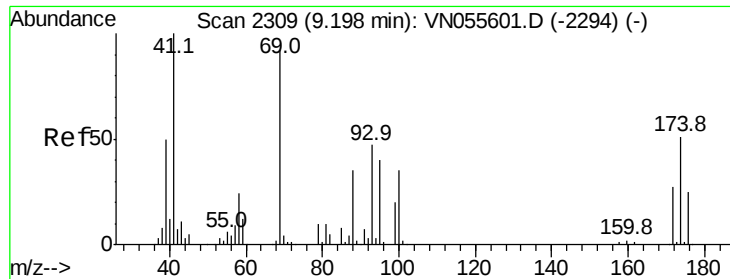
Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	41	Resp:	159630
Ion Ratio	Lower	Upper	
41	100		
69	96.2	74.2	111.2
39	57.0	43.8	65.8





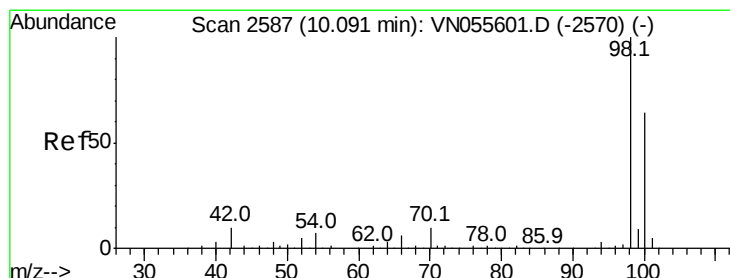
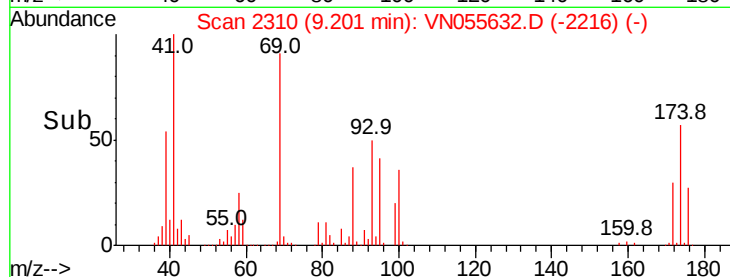
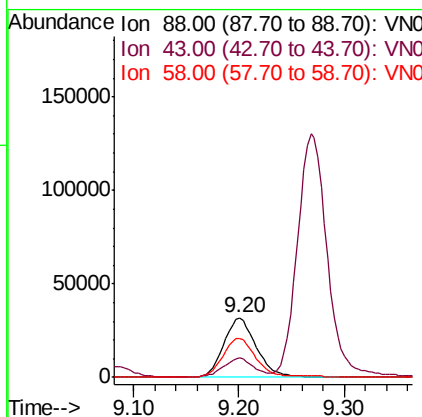
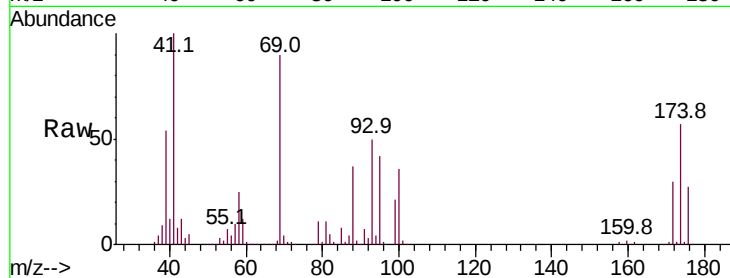
#49
1,4-Dioxane
Concen: 1076.099 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 88 Resp: 68156
Ion Ratio Lower Upper
88 100
43 28.4 22.4 33.6
58 65.8 53.4 80.2

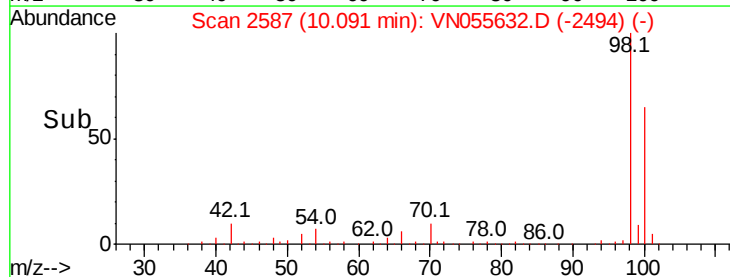
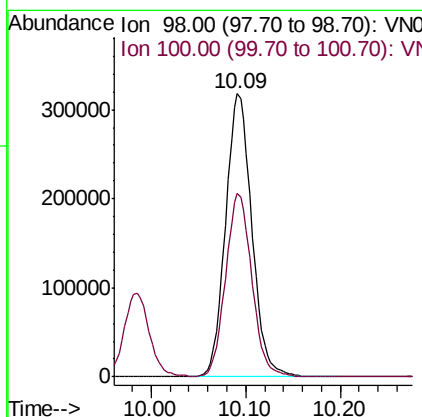
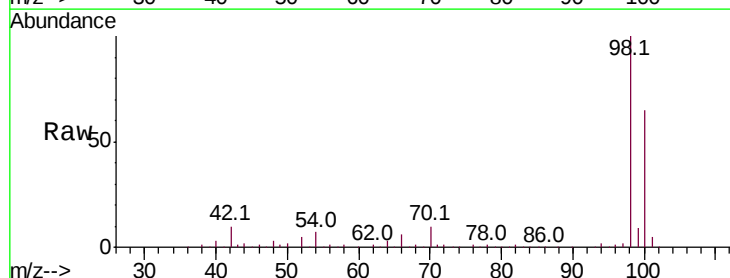
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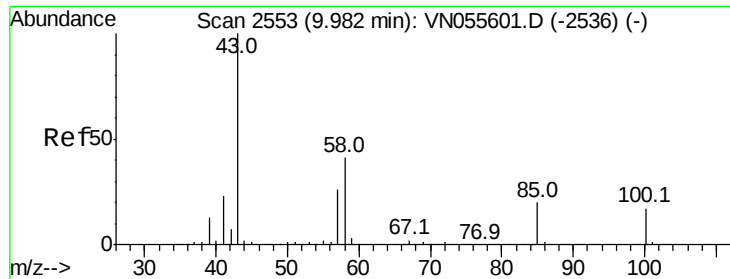
MMDadoda
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#50
Toluene-d8
Concen: 50.101 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 98 Resp: 613211
Ion Ratio Lower Upper
98 100
100 65.0 51.9 77.9





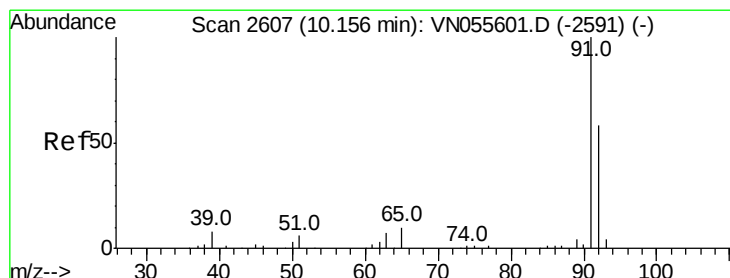
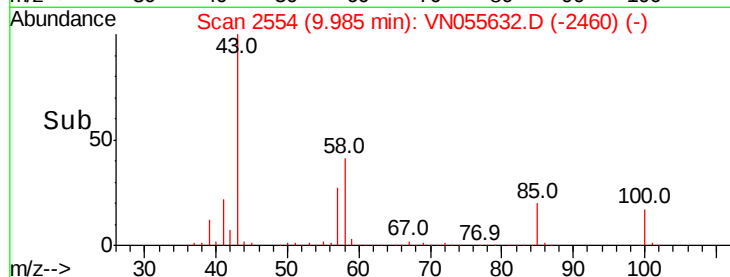
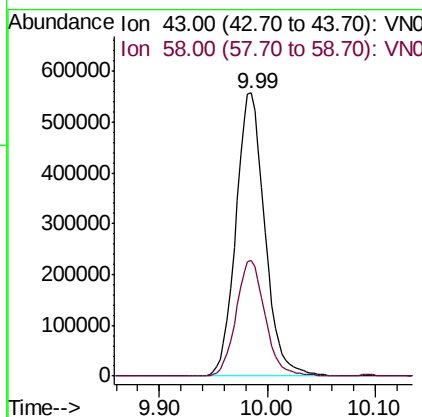
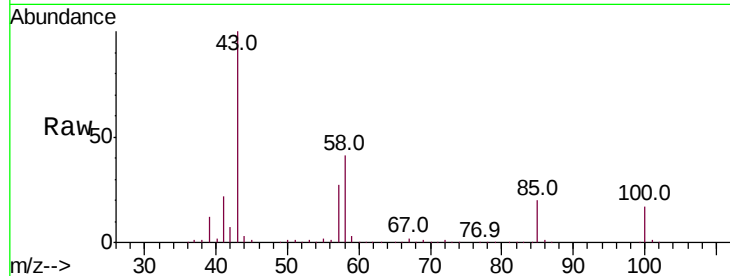
#51
4-Methyl-2-Pentanone
Concen: 248.202 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 43 Resp: 1038240
Ion Ratio Lower Upper
43 100
58 41.1 32.7 49.1

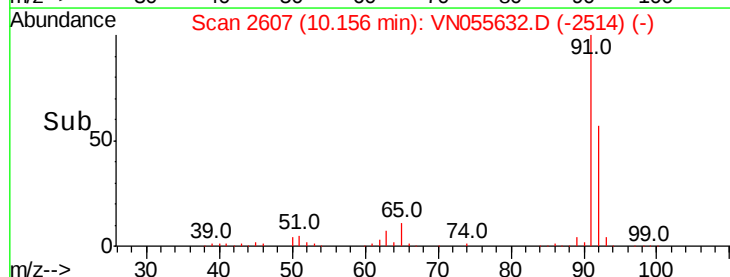
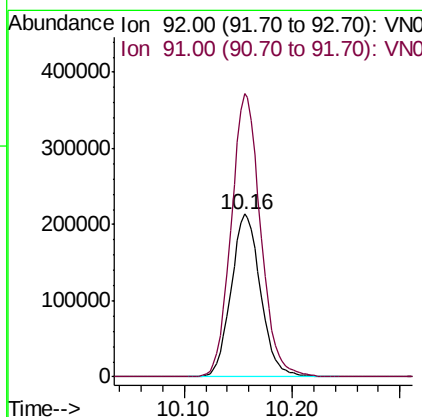
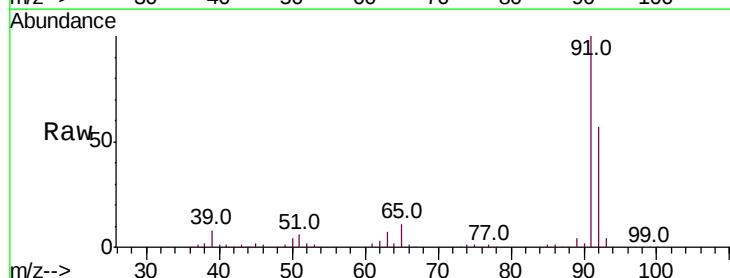
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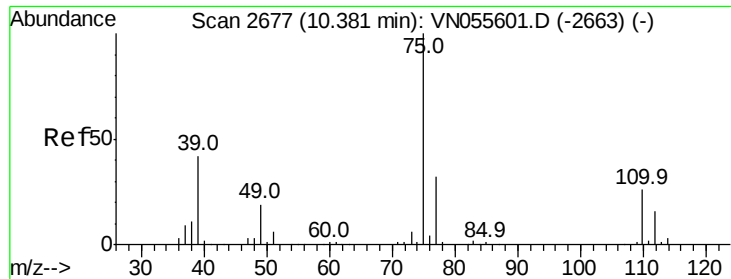
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#52
Toluene
Concen: 48.727 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 92 Resp: 408391
Ion Ratio Lower Upper
92 100
91 173.3 138.9 208.3





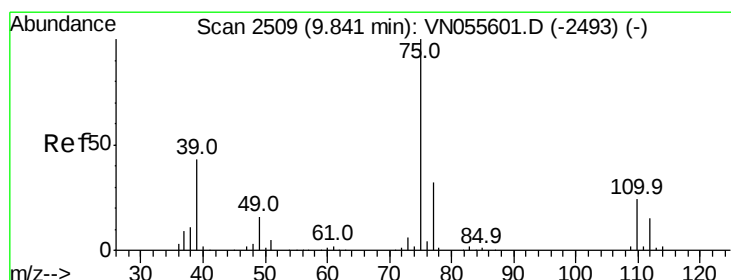
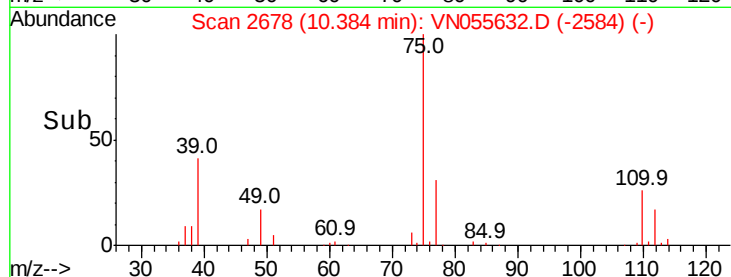
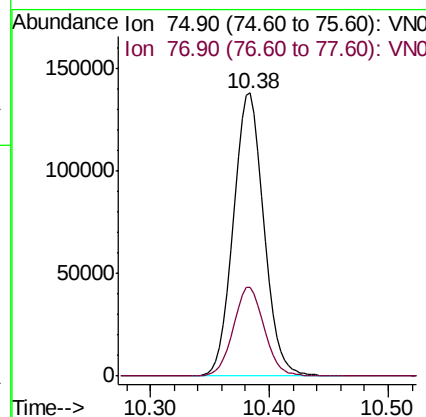
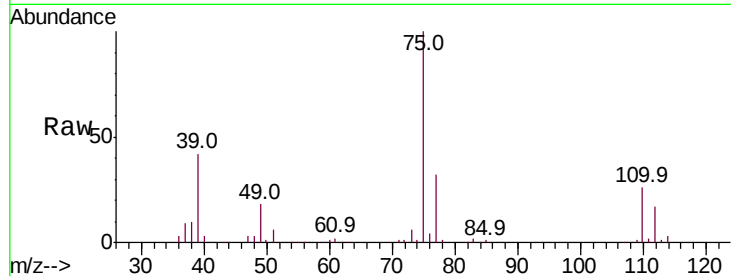
#53
t-1,3-Dichloropropene
Concen: 47.083 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 75 Resp: 244702
Ion Ratio Lower Upper
75 100
77 31.4 25.4 38.2

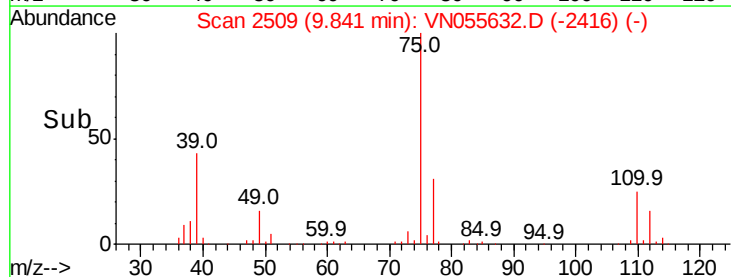
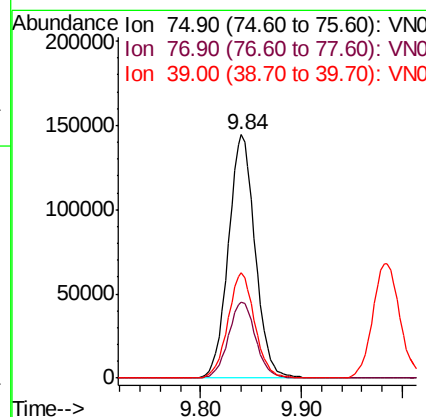
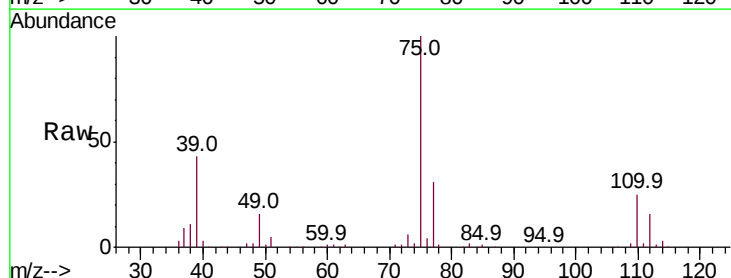
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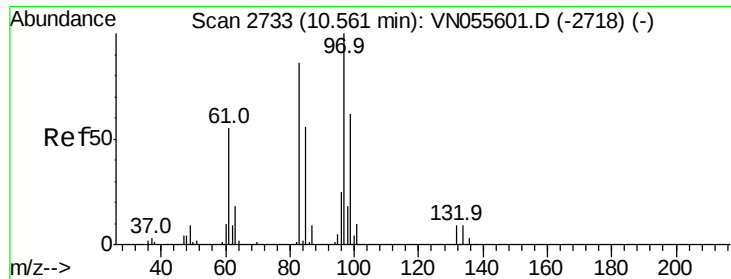
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 46.931 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 75 Resp: 267206
Ion Ratio Lower Upper
75 100
77 31.4 25.7 38.5
39 42.9 34.7 52.1





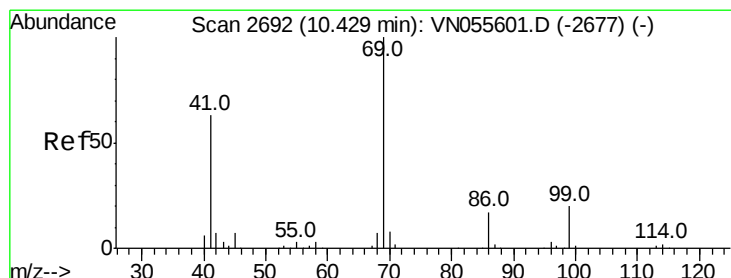
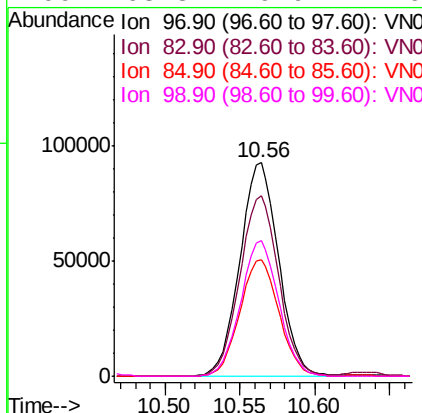
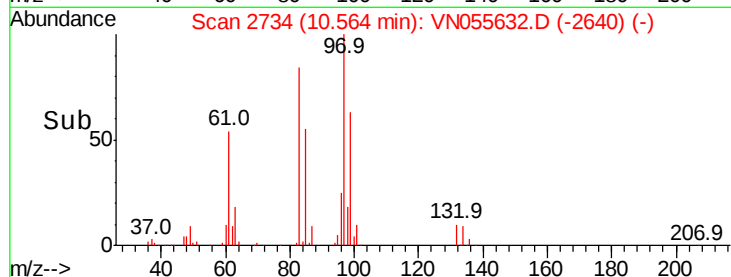
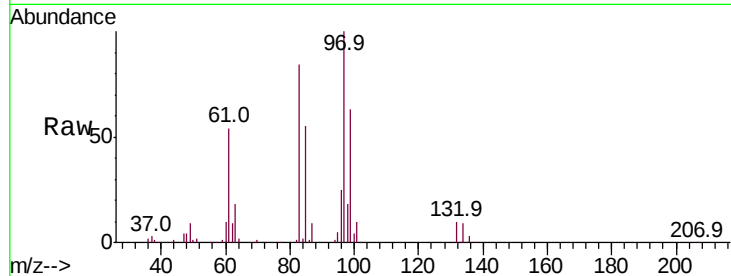
#55
 1,1,2-Trichloroethane
 Concen: 48.411 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion:	97	Resp:	167037
Ion	Ratio	Lower	Upper
97	100		
83	84.5	68.4	102.6
85	54.7	44.8	67.2
99	63.3	49.9	74.9

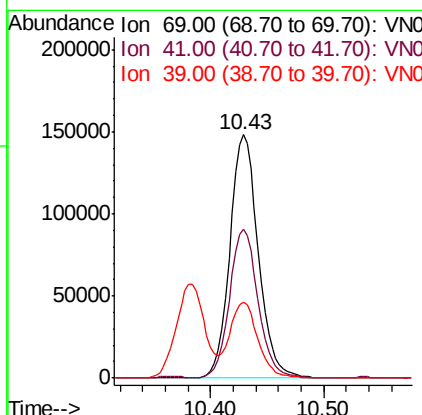
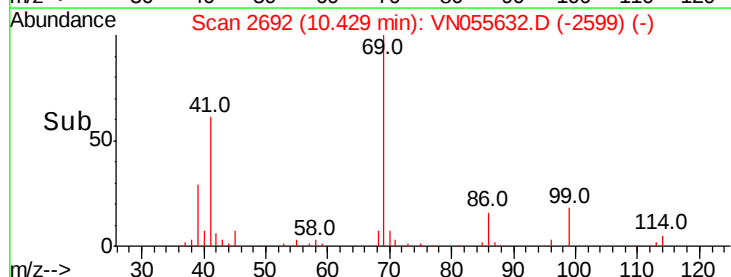
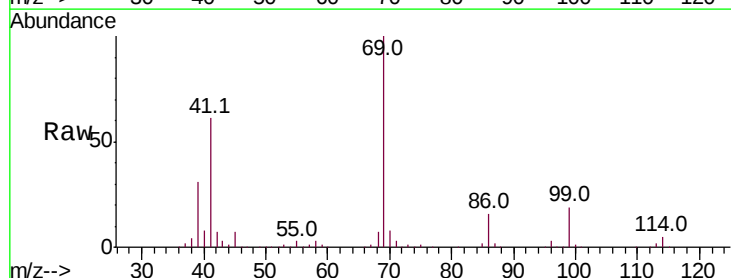
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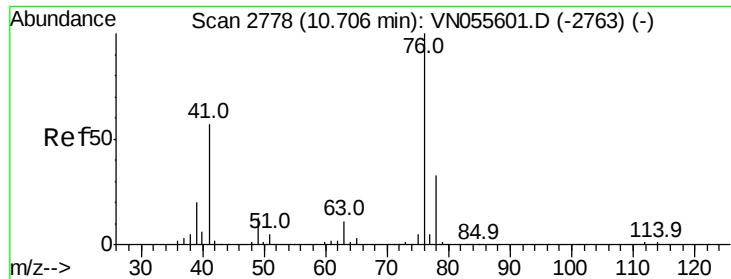
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#56
 Ethyl methacrylate
 Concen: 48.065 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion:	69	Resp:	258889
Ion	Ratio	Lower	Upper
69	100		
41	60.9	50.3	75.5
39	31.1	25.4	38.2





#57

1,3-Dichloropropane

Concen: 49.164 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion: 76 Resp: 268669

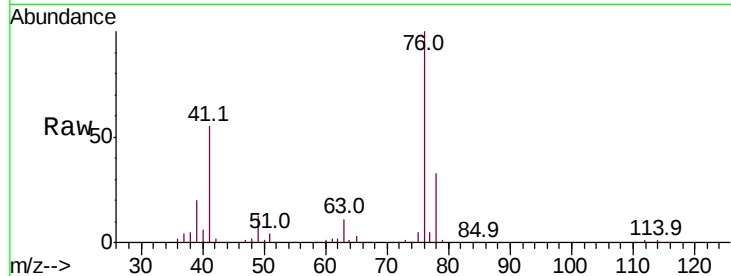
Ion Ratio Lower Upper

76 100

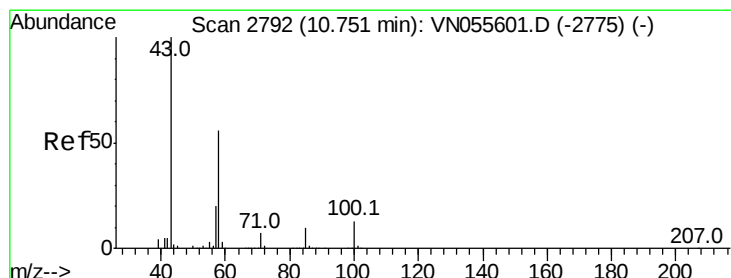
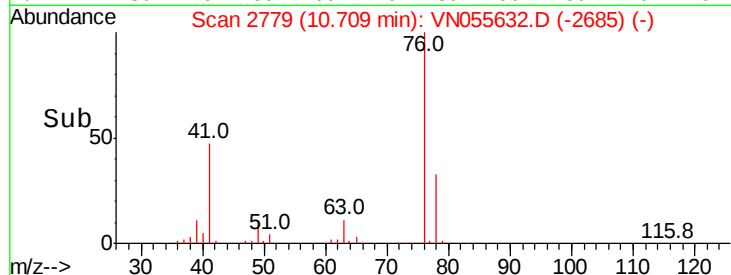
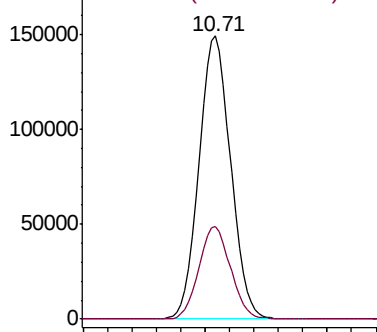
78 32.9 26.5 39.7

Manual Integrations
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MMDadoda
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Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#59

2-Hexanone

Concen: 250.386 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN055632.D

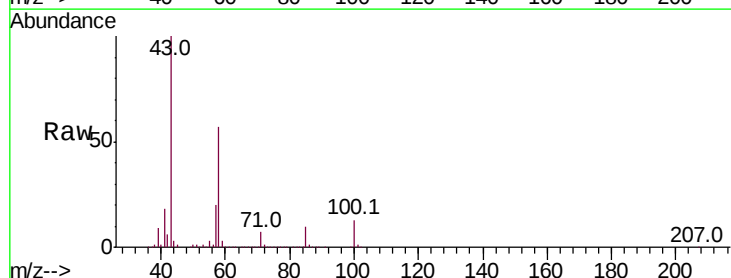
Acq: 17 May 2019 23:50

Tgt Ion: 43 Resp: 737404

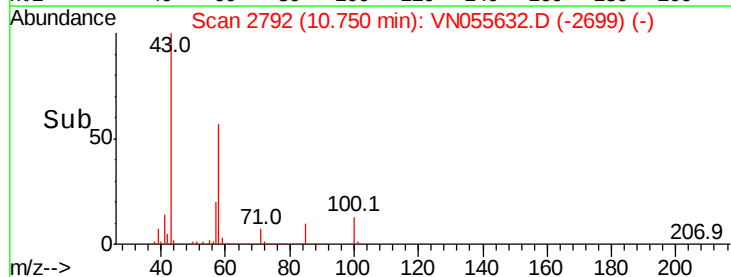
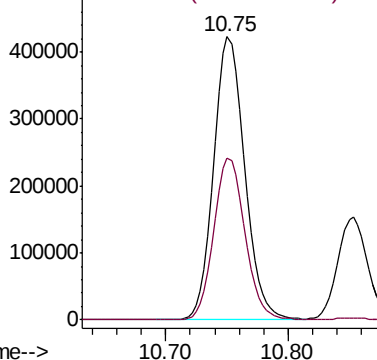
Ion Ratio Lower Upper

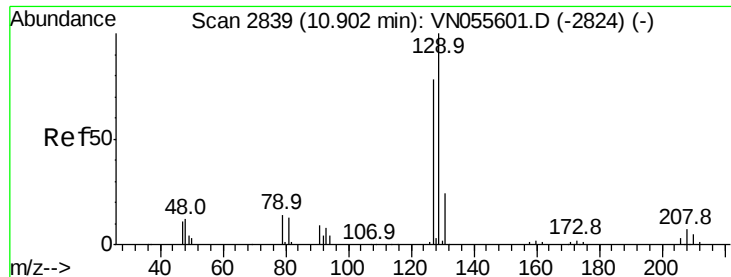
43 100

58 57.6 28.1 84.4



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#60

Dibromochloromethane

Concen: 50.210 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:129 Resp: 196352

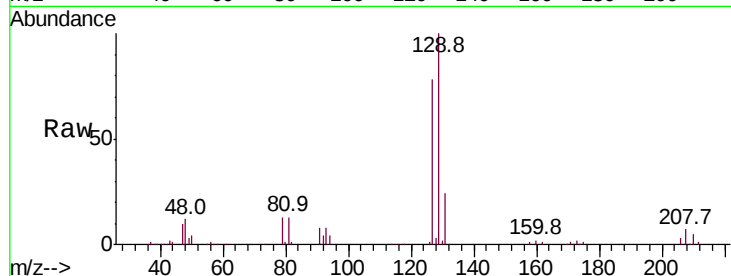
Ion Ratio Lower Upper

129 100

127 77.3 38.6 115.8

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Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.90

120000

100000

80000

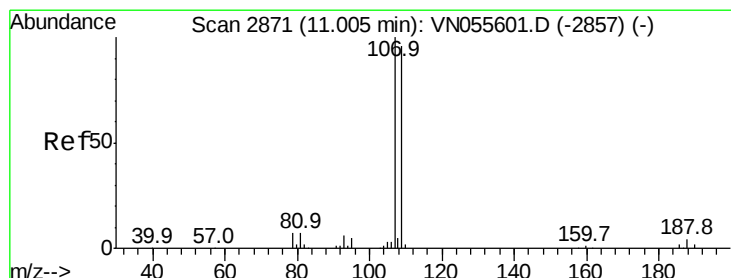
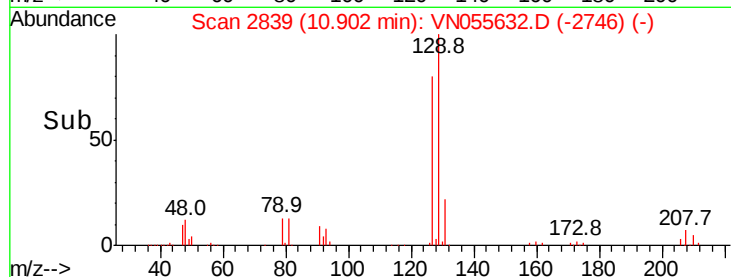
60000

40000

20000

0

Time--> 10.80 10.85 10.90 10.95



#61

1,2-Dibromoethane

Concen: 50.090 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN055632.D

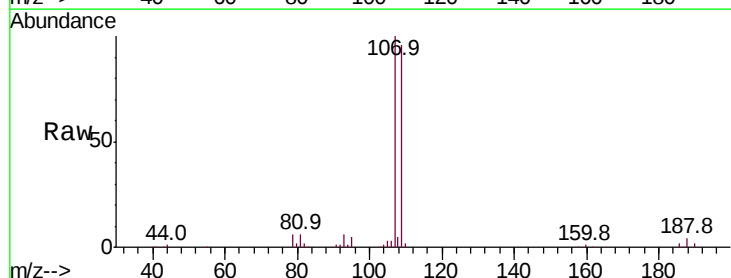
Acq: 17 May 2019 23:50

Tgt Ion:107 Resp: 172930

Ion Ratio Lower Upper

107 100

109 94.7 75.6 113.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

100000

80000

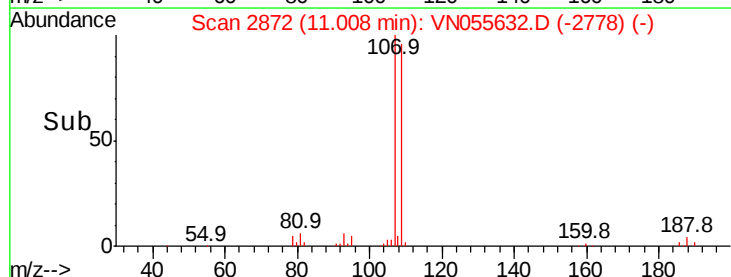
60000

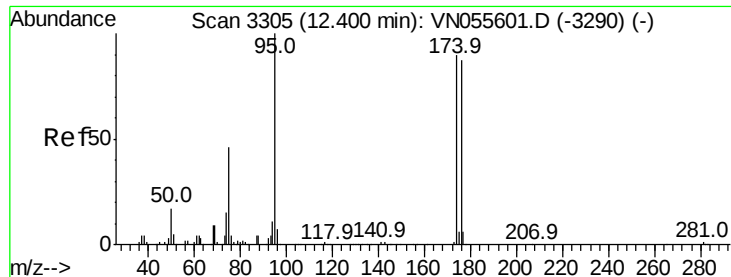
40000

20000

0

Time--> 11.00 11.10





#62

4-Bromofluorobenzene

Concen: 50.339 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

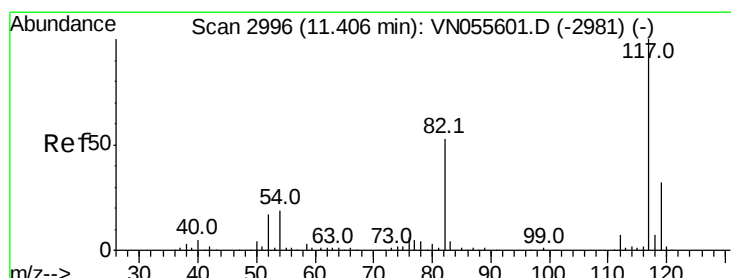
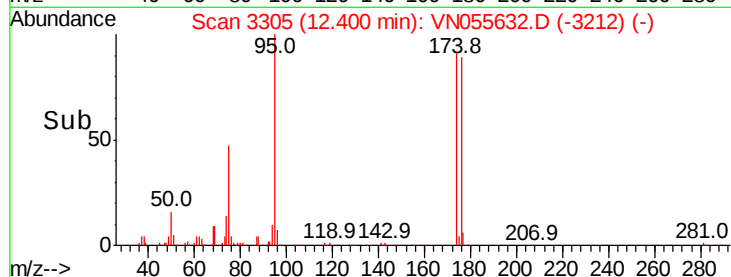
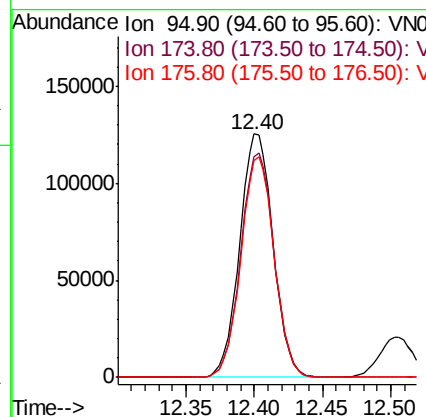
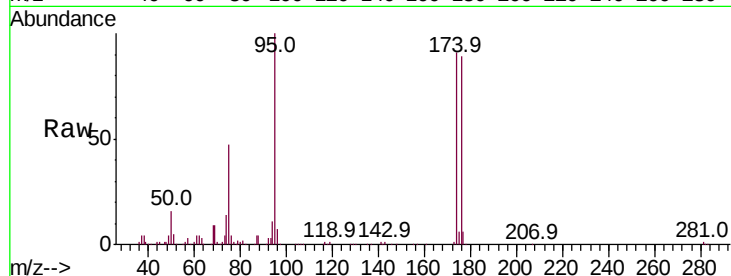
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:	95	Resp:	212758
Ion Ratio	Lower	Upper	
95	100		
174	92.1	0.0	180.6
176	90.1	0.0	177.4

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

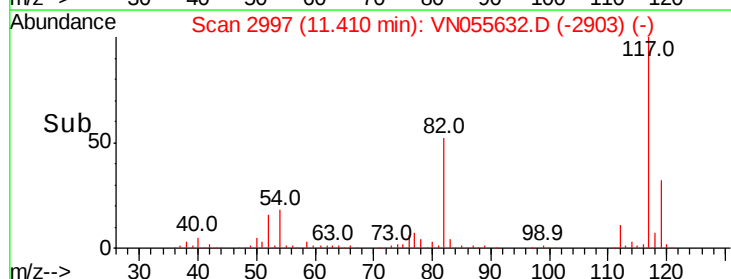
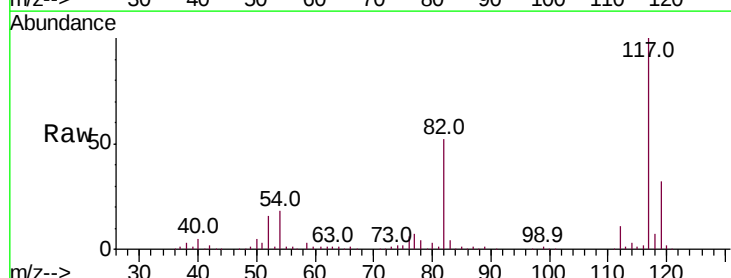
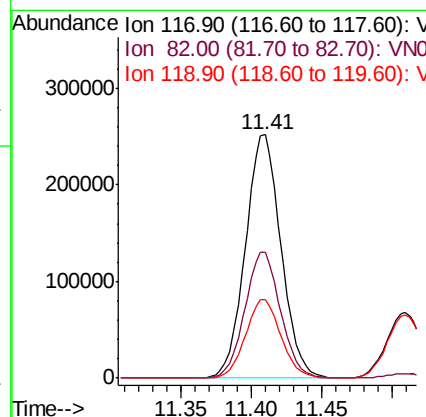
RT: 11.41 min Scan# 2997

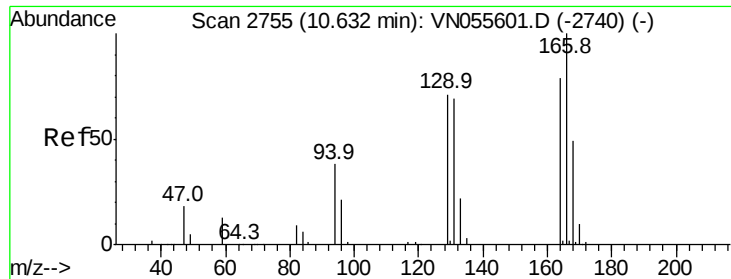
Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	117	Resp:	444917
Ion Ratio	Lower	Upper	
117	100		
82	51.6	42.3	63.5
119	32.3	25.4	38.2





#64

Tetrachloroethene

Concen: 47.101 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:164 Resp: 165286

Ion Ratio Lower Upper

164 100

166 129.7 101.0 151.6

129 90.2 71.7 107.5

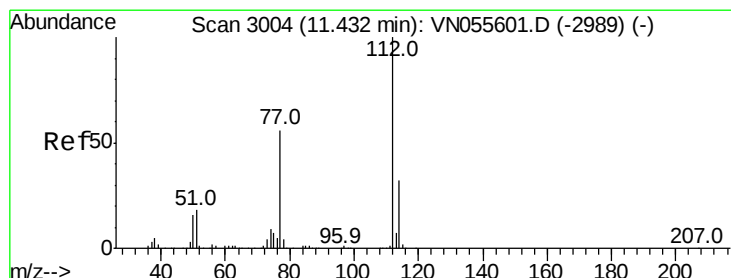
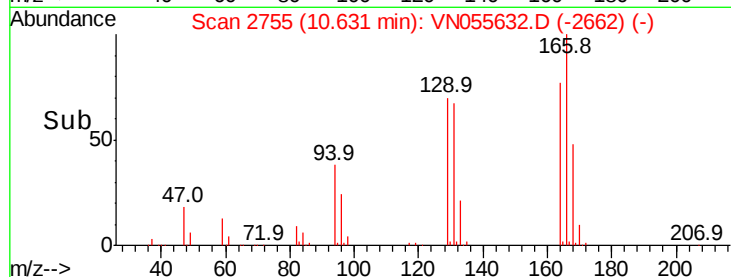
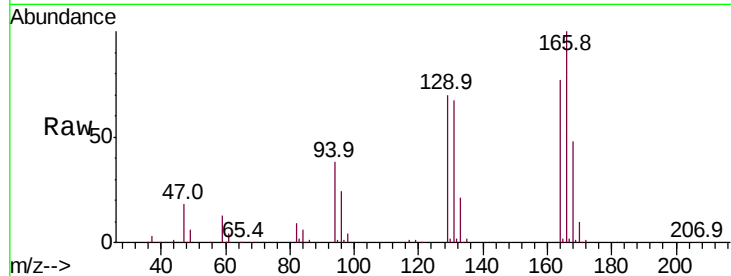
131 87.0 69.6 104.4

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#65

Chlorobenzene

Concen: 48.874 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN055632.D

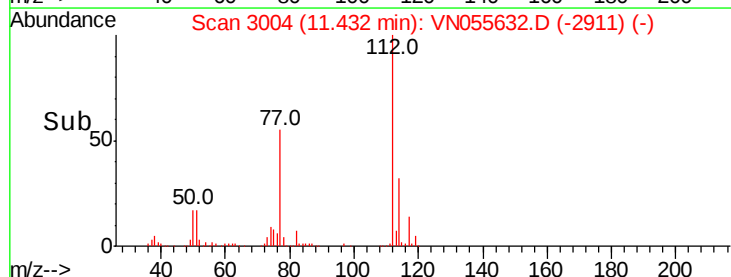
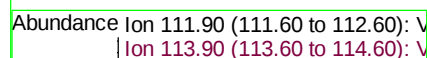
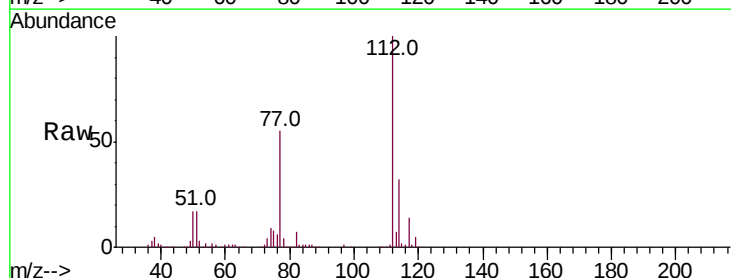
Acq: 17 May 2019 23:50

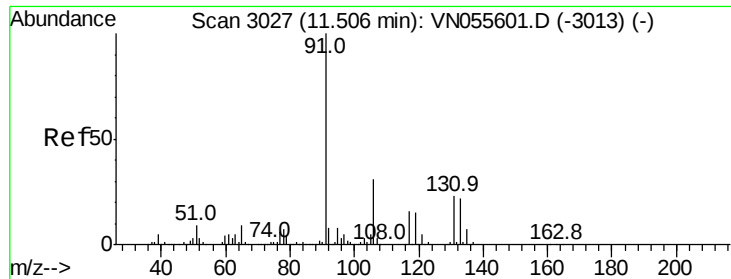
Tgt Ion:112 Resp: 439818

Ion Ratio Lower Upper

112 100

114 32.0 25.6 38.4





#66

1,1,1,2-Tetrachloroethane

Concen: 48.779 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

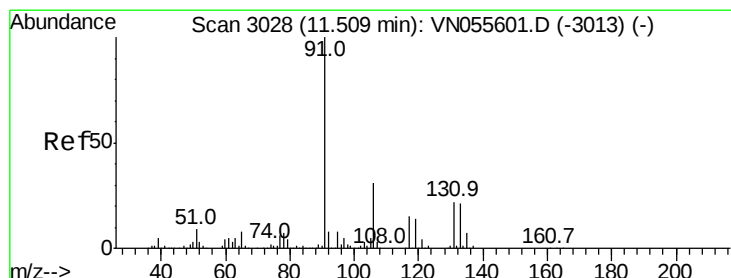
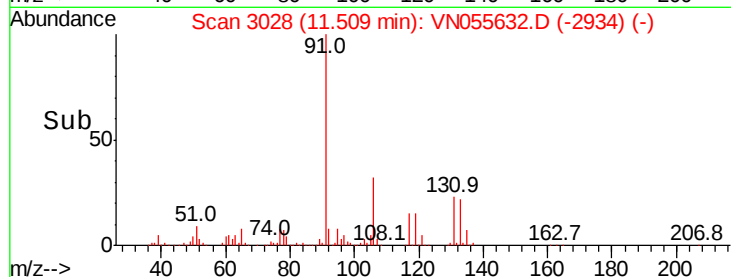
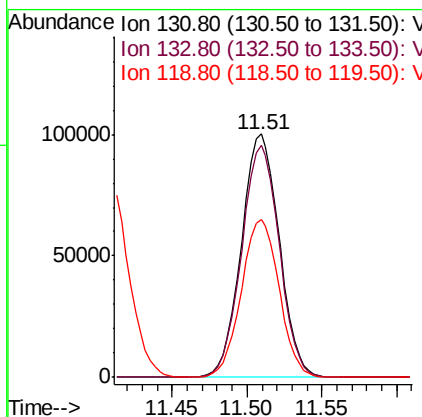
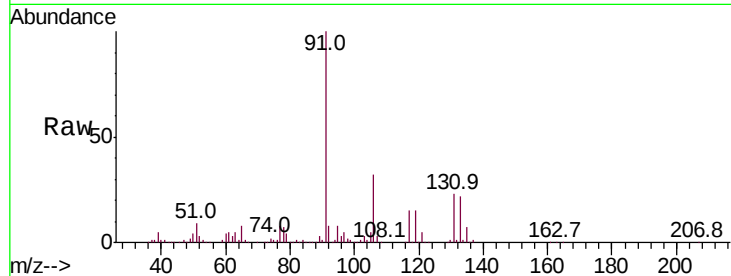
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:	131	Resp:	176592
Ion Ratio	Lower	Upper	
131	100		
133	94.9	47.8	143.4
119	64.9	33.3	99.8

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#67

Ethyl Benzene

Concen: 47.866 ug/l

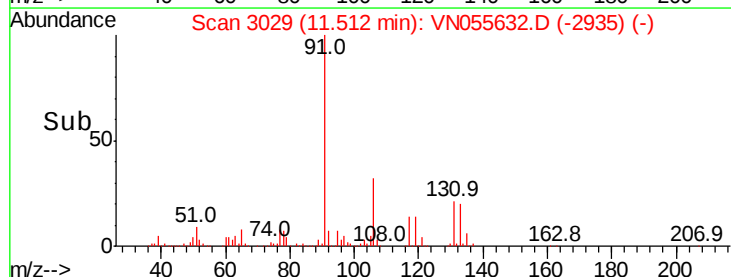
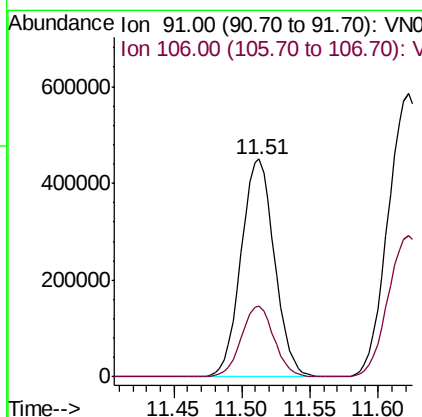
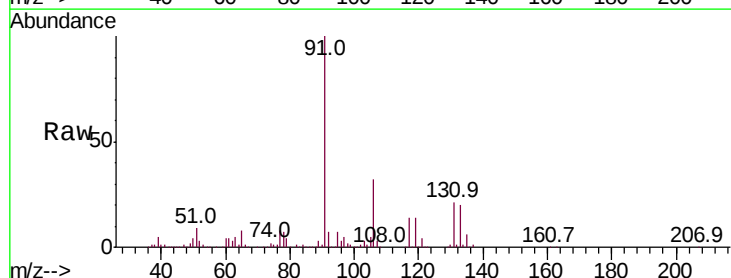
RT: 11.51 min Scan# 3029

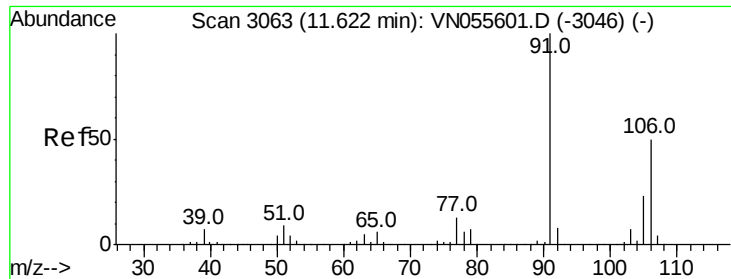
Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	91	Resp:	767335
Ion Ratio	Lower	Upper	
91	100		
106	32.5	25.2	37.8





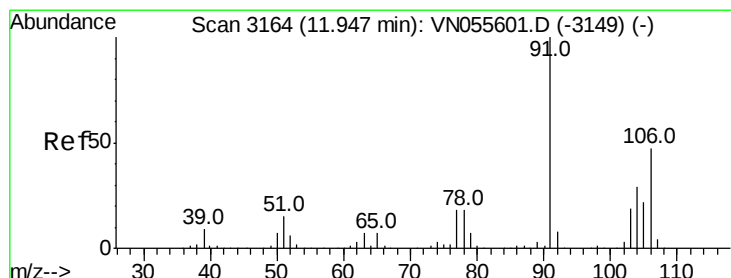
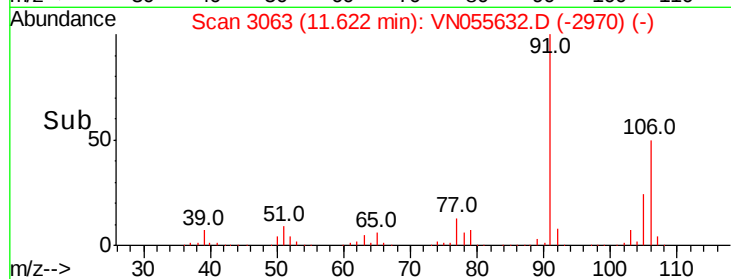
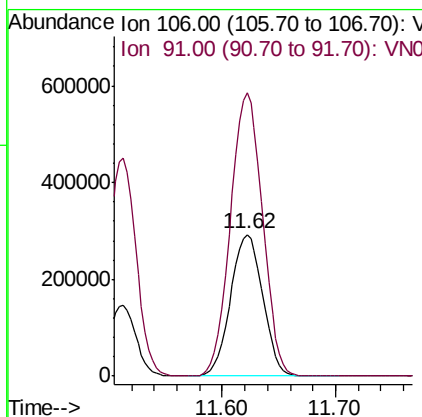
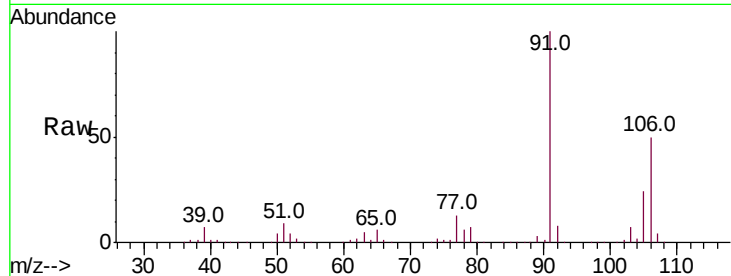
#68
m/p-Xylenes
Concen: 95.715 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion:106 Resp: 579446
Ion Ratio Lower Upper
106 100
91 199.3 160.5 240.7

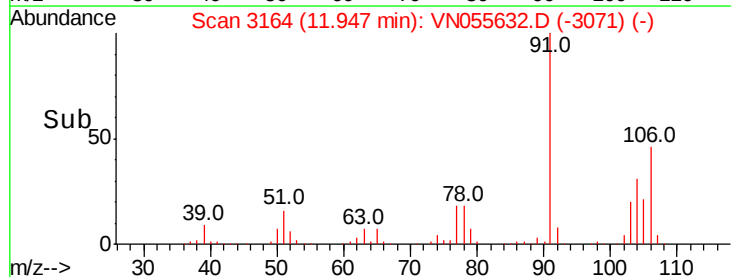
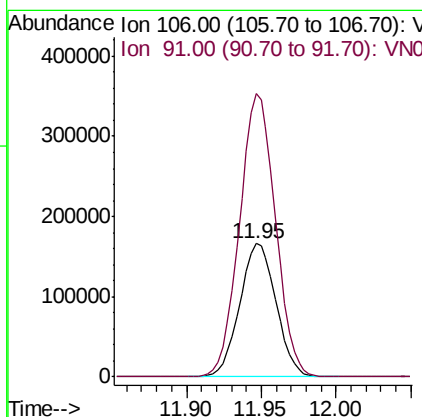
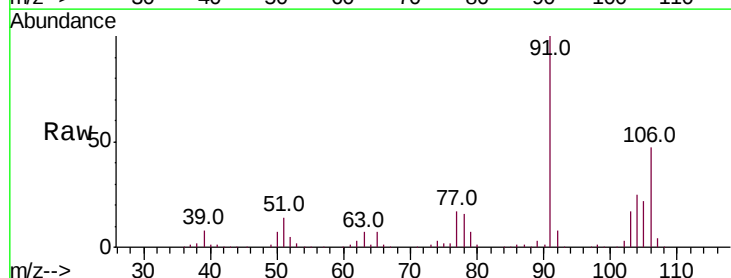
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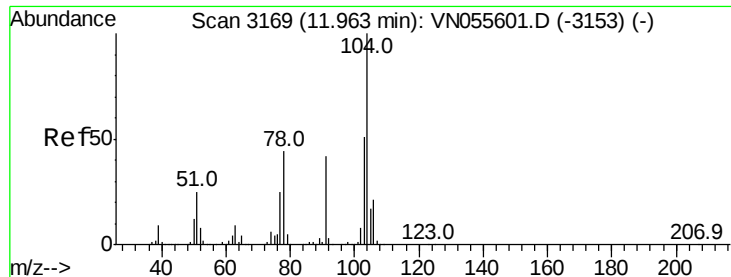
MMDadoda
5/20/2019 9:09:20 AM



#69
o-Xylene
Concen: 47.476 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion:106 Resp: 281110
Ion Ratio Lower Upper
106 100
91 209.9 106.7 320.2





#70

Stvrene

Concen: 48.768 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

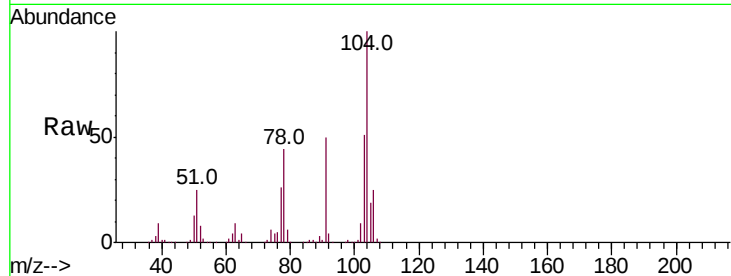
ClientSampleId :

FM-EA-3MW01-051519MSD

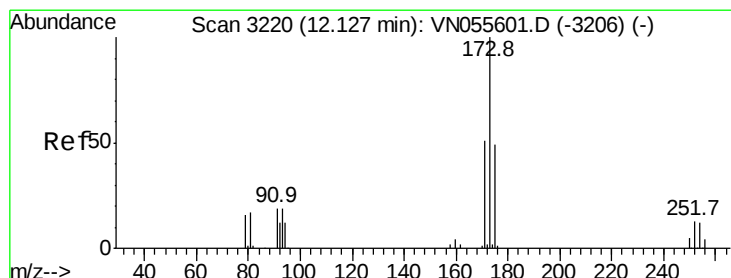
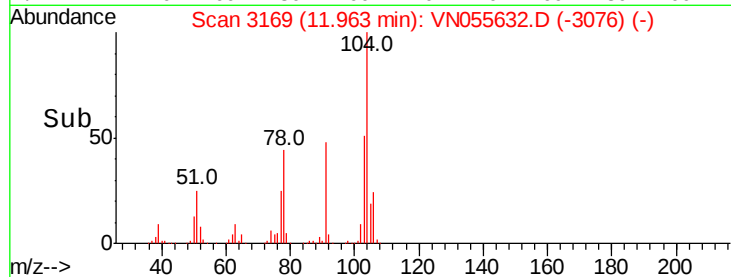
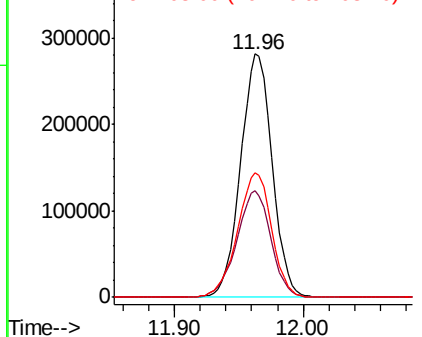
Tot Ion:	104	Resp:	480133
Ion Ratio	Lower	Upper	
104	100		
78	47.3	38.6	58.0
103	55.0	44.4	66.6

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Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 50.741 ug/l

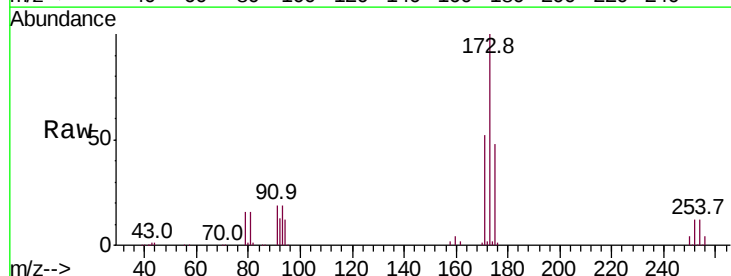
RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

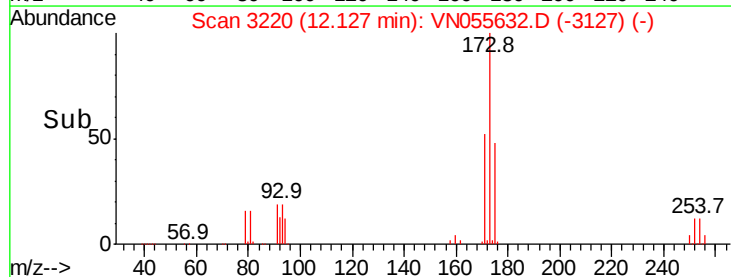
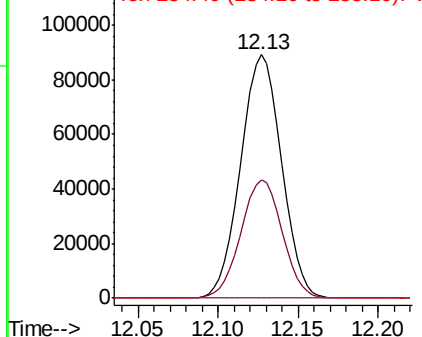
Lab File: VN055632.D

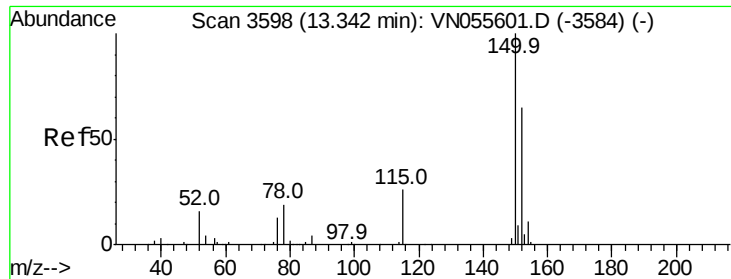
Acq: 17 May 2019 23:50

Tgt Ion:	173	Resp:	155672
Ion Ratio	Lower	Upper	
173	100		
175	49.1	24.3	72.9
254	0.1	0.1	0.1



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:152 Resp: 206773

Ion Ratio Lower Upper

152 100

115 55.2 28.1 84.2

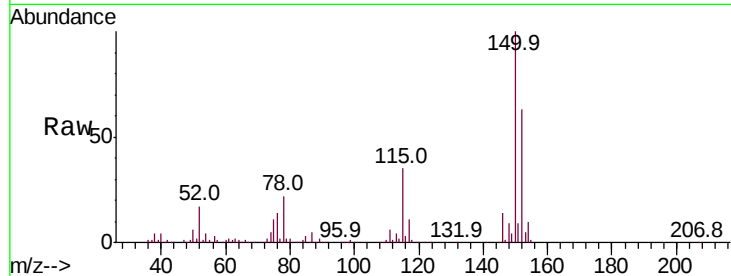
150 171.8 0.0 348.0

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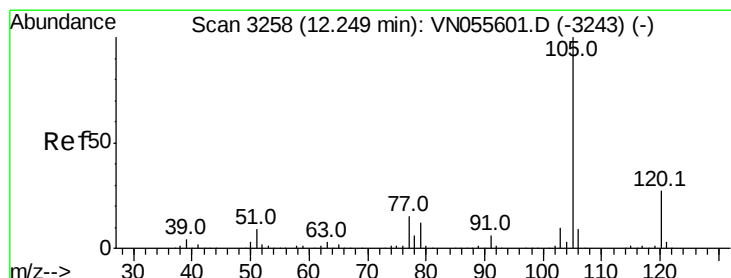
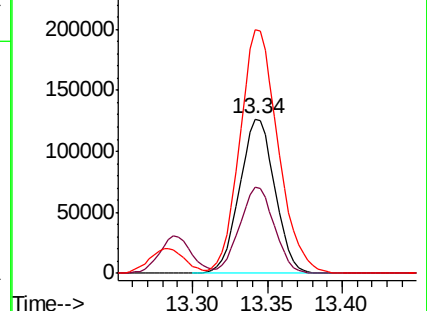
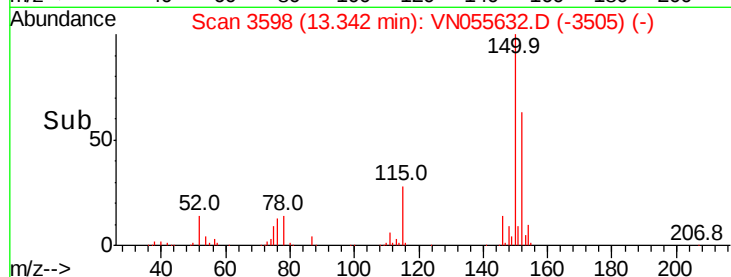
5/20/2019 9:09:20 AM



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 51.304 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055632.D

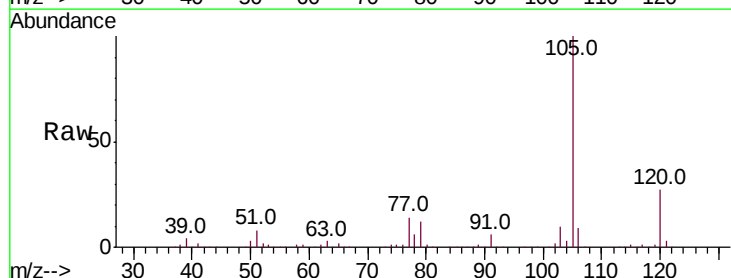
Acq: 17 May 2019 23:50

Tgt Ion:105 Resp: 743513

Ion Ratio Lower Upper

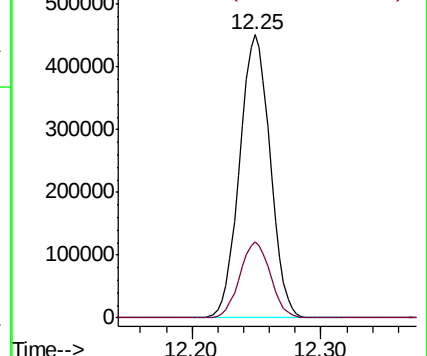
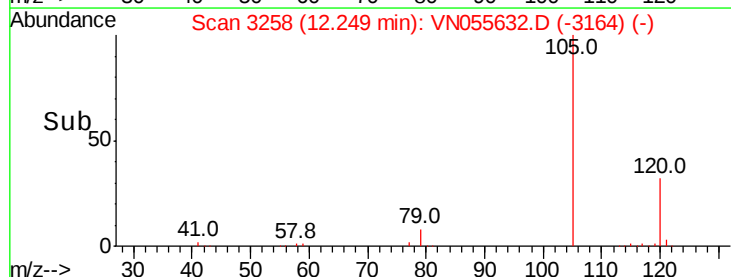
105 100

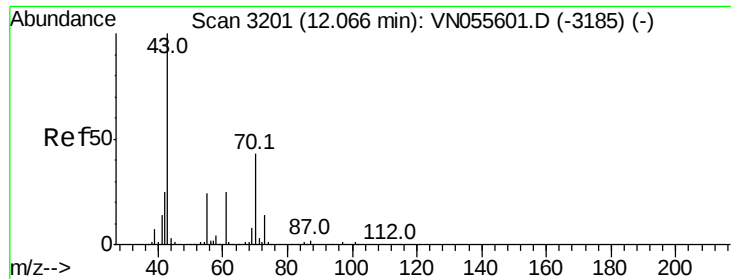
120 26.8 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 42.837 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

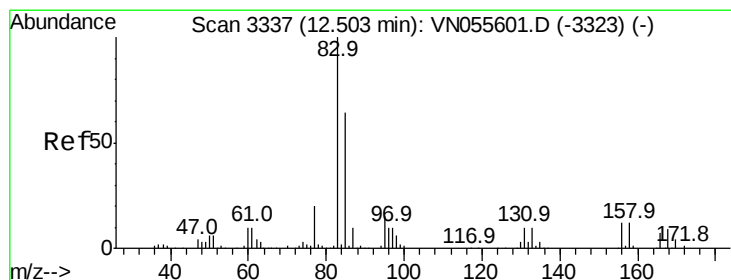
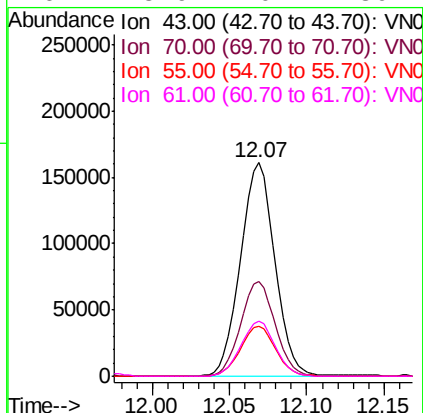
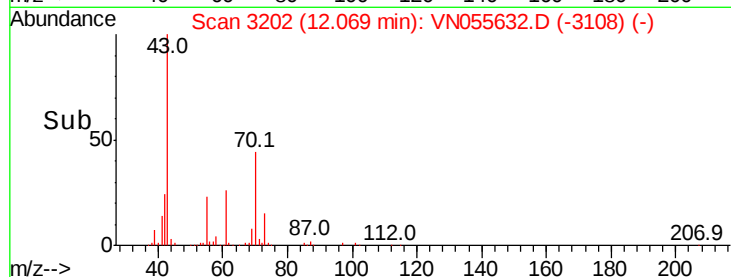
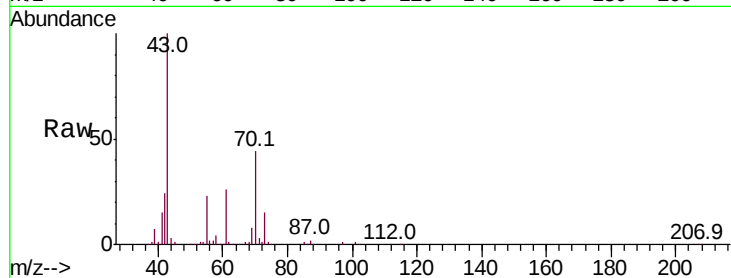
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Lower	Upper
43	100		
70	44.8	35.0	52.6
55	23.6	18.9	28.3
61	25.9	20.1	30.1

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#75

1,1,2,2-Tetrachloroethane

Concen: 51.652 ug/l

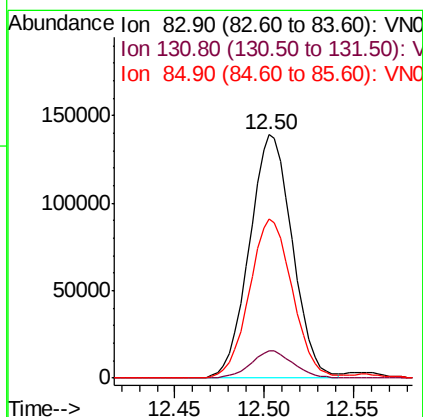
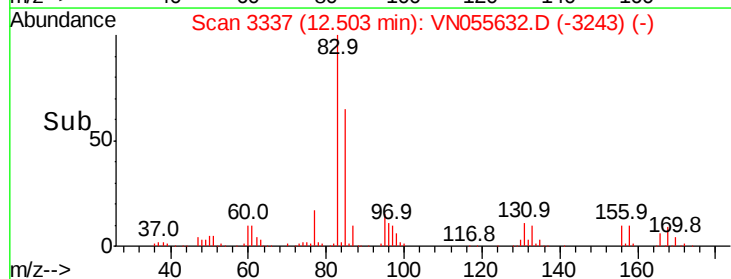
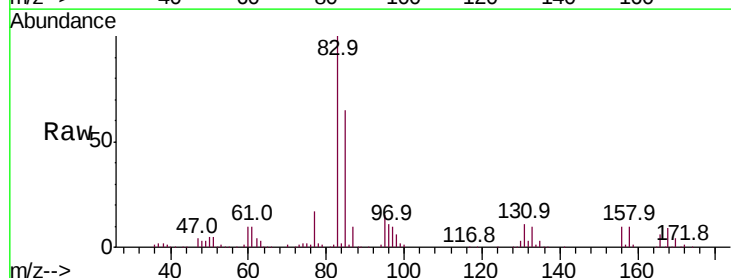
RT: 12.50 min Scan# 3337

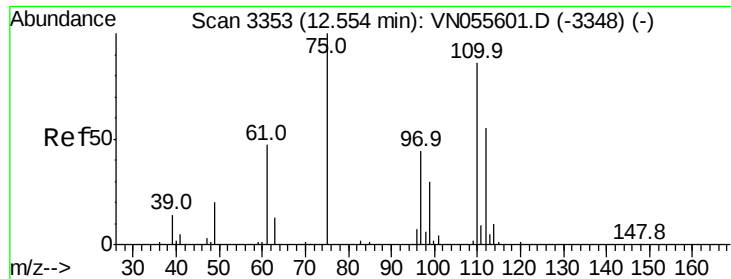
Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Lower	Upper
83	100		
131	11.2	5.3	16.1
85	65.4	32.0	96.2





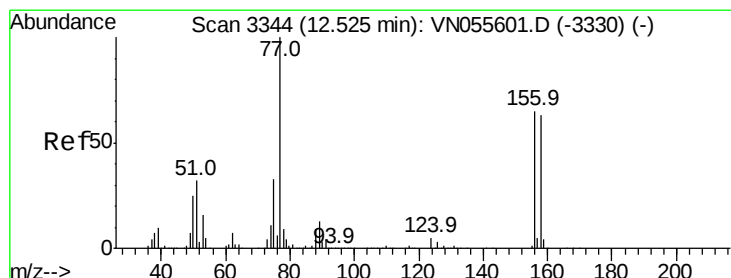
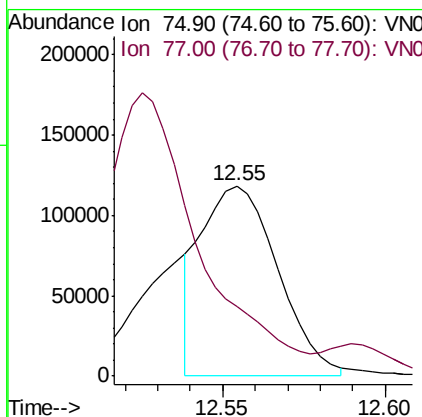
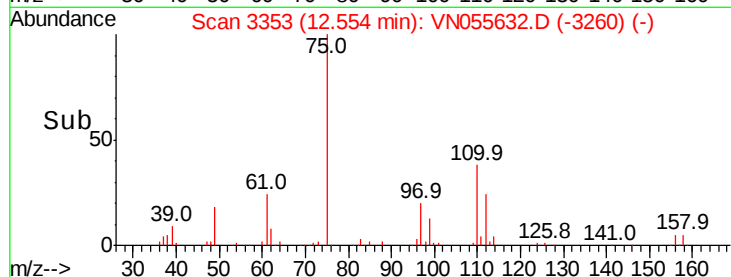
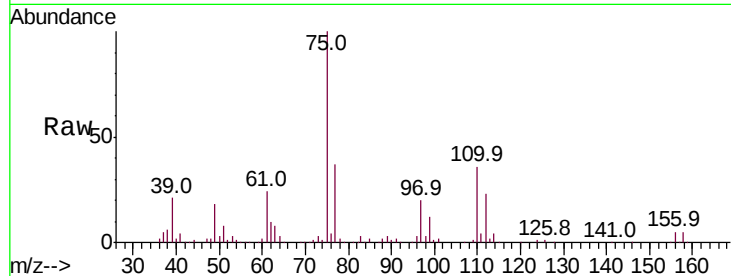
#76
1,2,3-Trichloropropane
Concen: 46.049 ug/l m
RT: 12.55 min Scan# 3353
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 75 Resp: 194290
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0

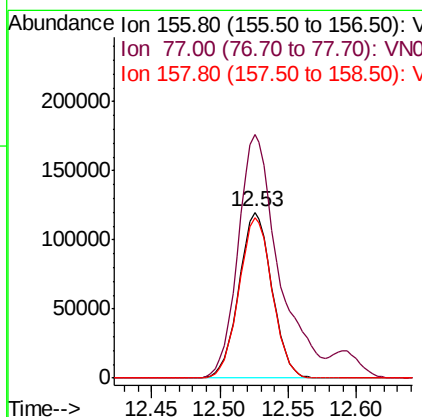
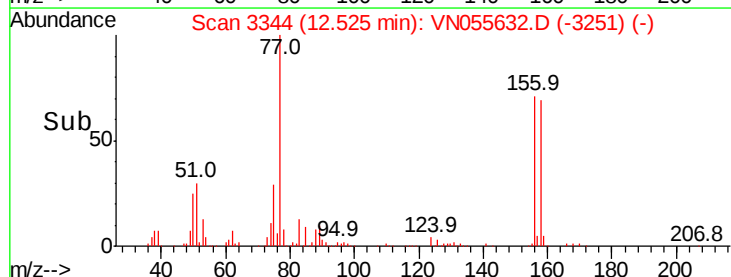
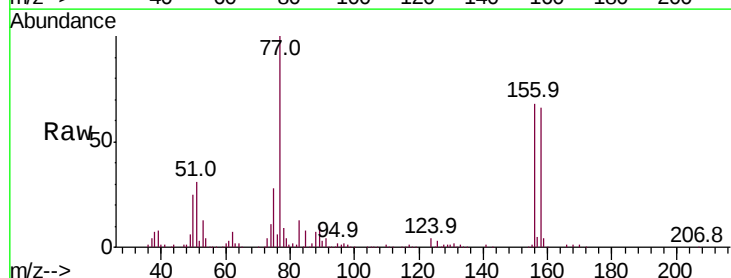
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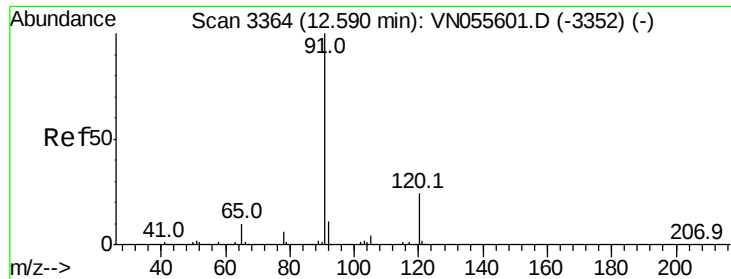
MMDadoda
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#77
Bromobenzene
Concen: 47.565 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 156 Resp: 201987
Ion Ratio Lower Upper
156 100
77 179.7 94.5 283.5
158 97.2 49.0 147.2





#78

n-propylbenzene

Concen: 44.335 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion: 91 Resp: 814086

Ion Ratio Lower Upper

91 100

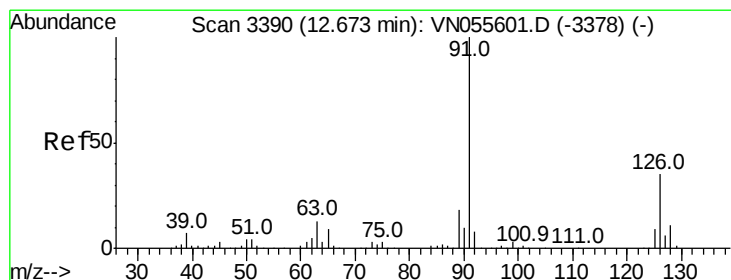
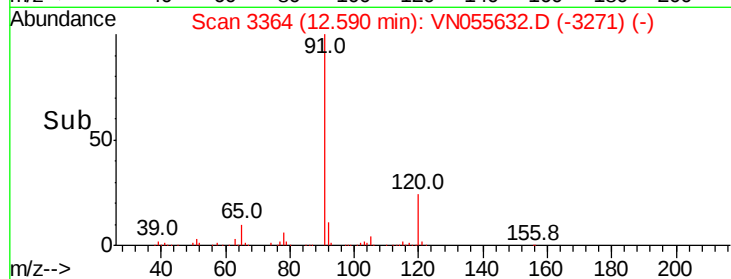
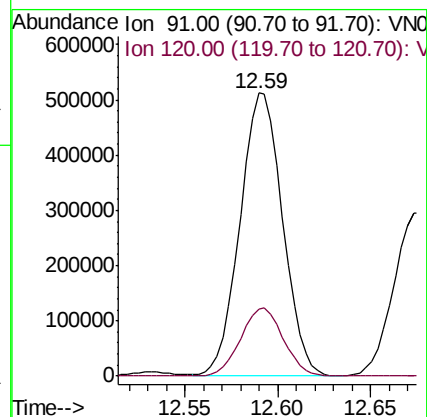
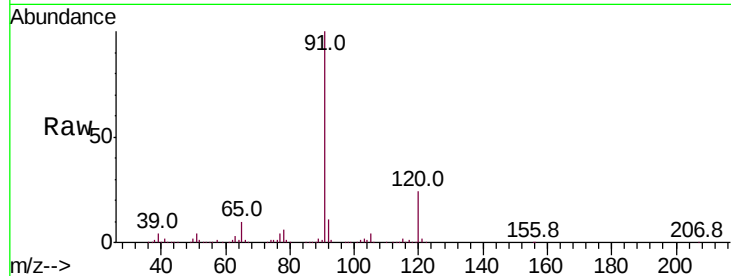
120 24.1 11.9 35.5

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#79

2-Chlorotoluene

Concen: 50.012 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055632.D

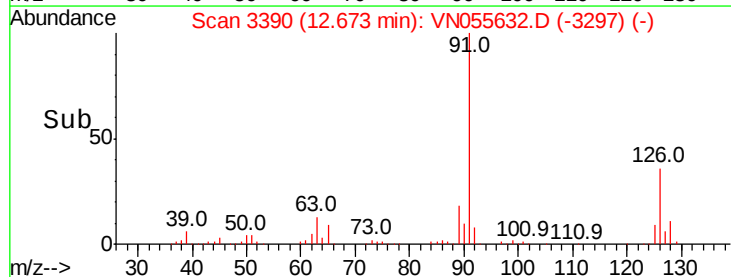
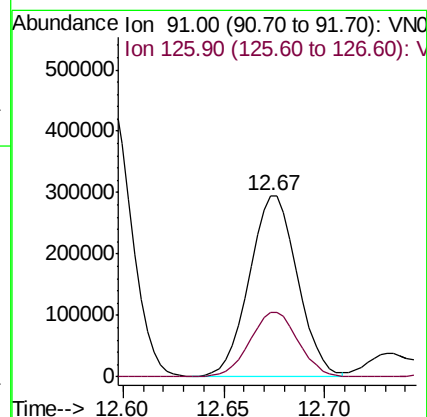
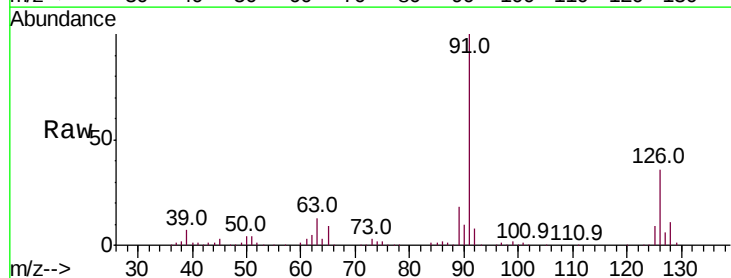
Acq: 17 May 2019 23:50

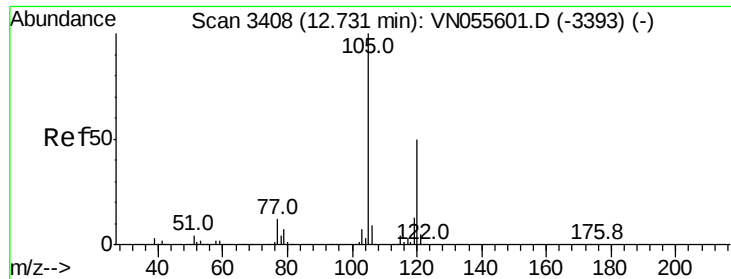
Tgt Ion: 91 Resp: 491462

Ion Ratio Lower Upper

91 100

126 36.1 17.8 53.4





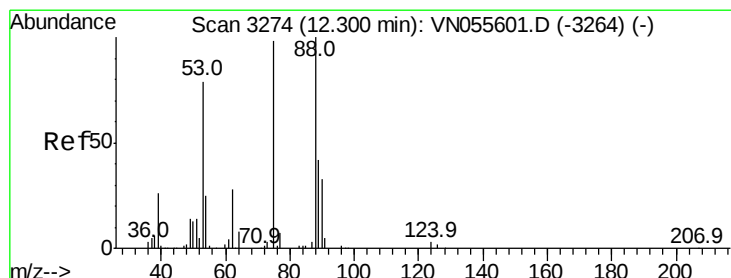
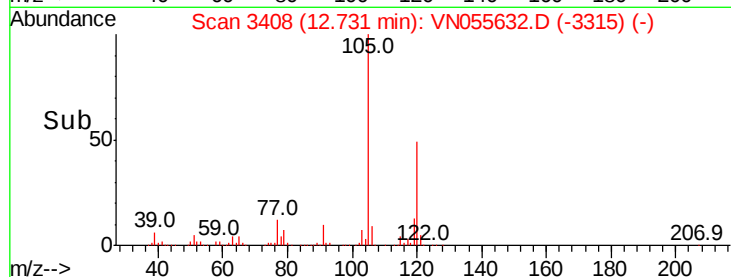
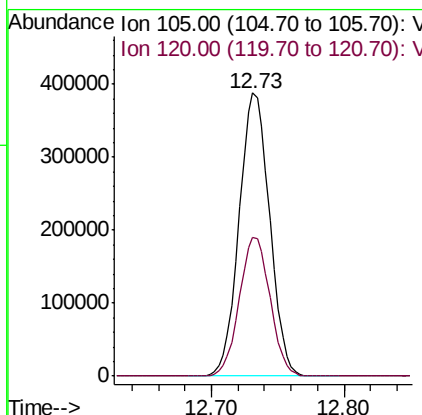
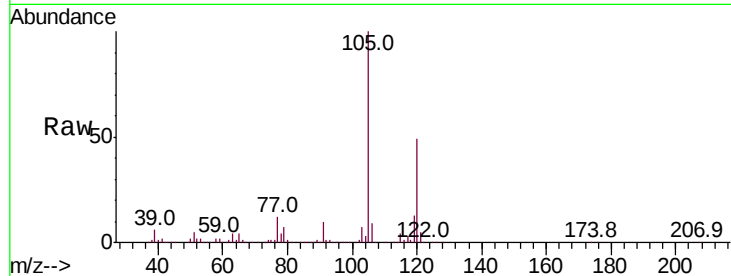
#80
 1,3,5-Trimethylbenzene
 Concen: 49.909 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion:105 Resp: 618707
 Ion Ratio Lower Upper
 105 100
 120 49.5 24.6 74.0

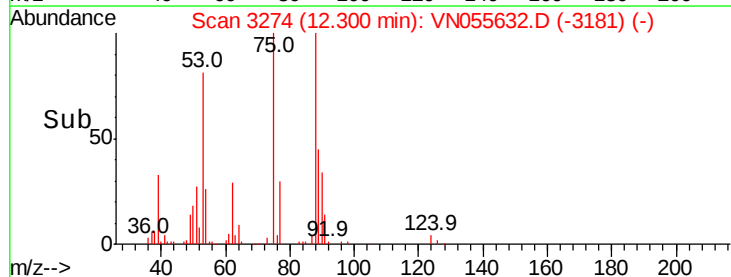
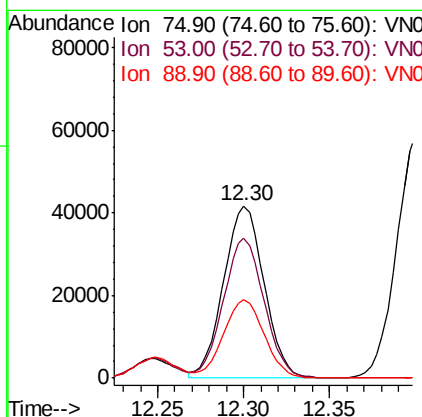
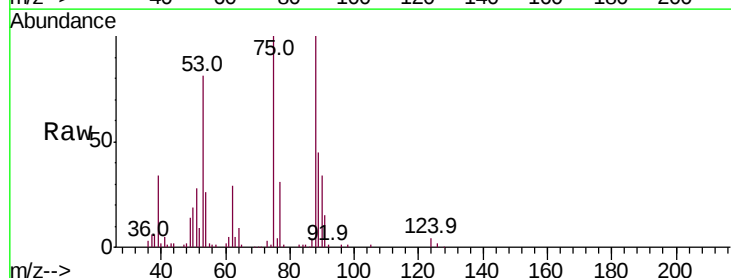
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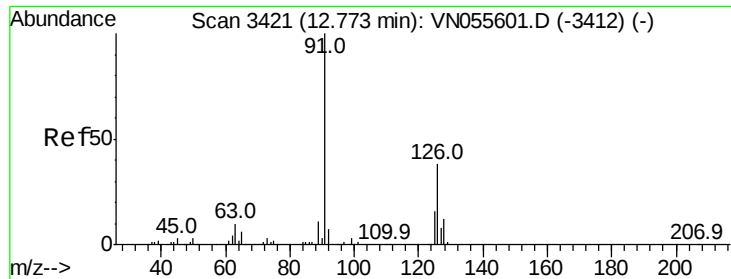
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#81
 trans-1,4-Dichloro-2-butene
 Concen: 41.913 ug/l
 RT: 12.30 min Scan# 3274
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion: 75 Resp: 68794
 Ion Ratio Lower Upper
 75 100
 53 82.0 65.1 97.7
 89 45.8 36.4 54.6





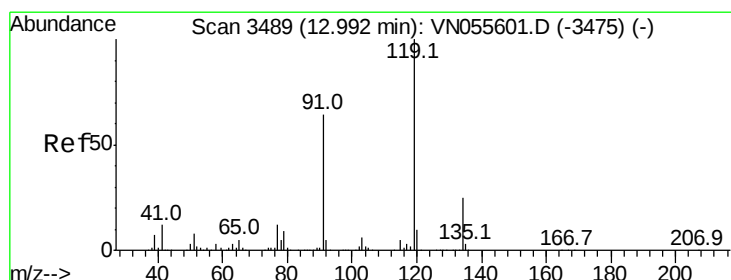
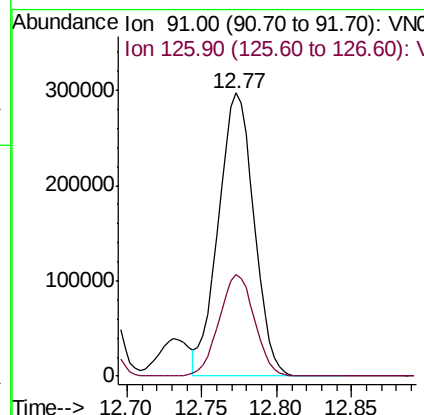
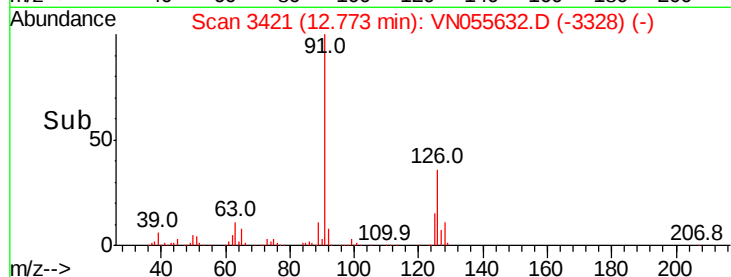
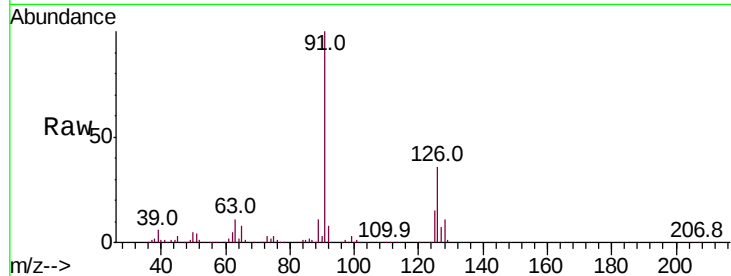
#82
4-Chlorotoluene
Concen: 45.433 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Instrument :
MSVOA_N
ClientSampleId :
FM-EA-3MW01-051519MSD

Tot Ion: 91 Resp: 491532
Ion Ratio Lower Upper
91 100
126 35.6 17.5 52.6

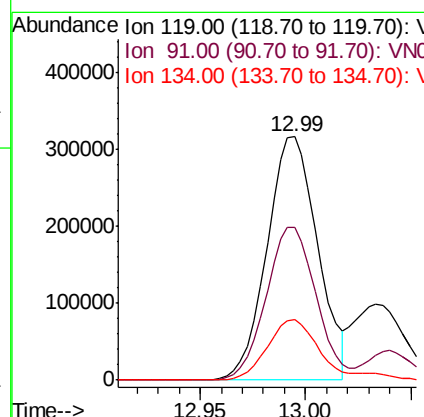
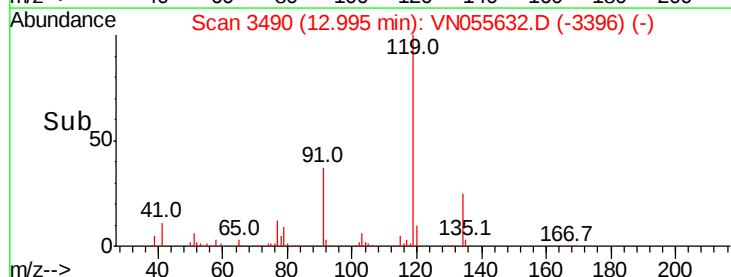
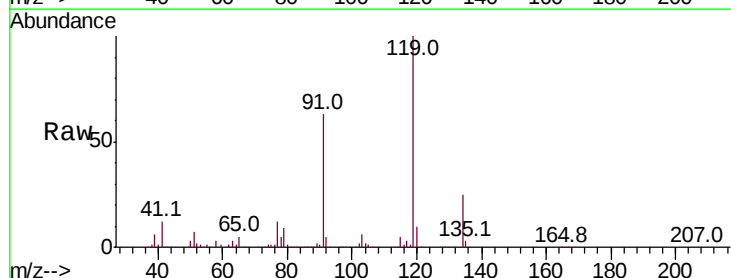
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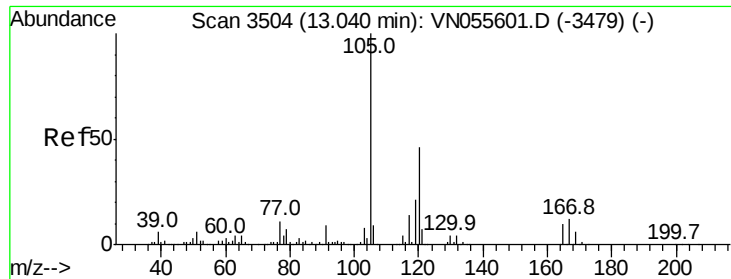
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#83
tert-Butylbenzene
Concen: 50.371 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN055632.D
Acq: 17 May 2019 23:50

Tgt Ion: 119 Resp: 529851
Ion Ratio Lower Upper
119 100
91 61.7 31.3 93.8
134 24.7 13.2 39.6





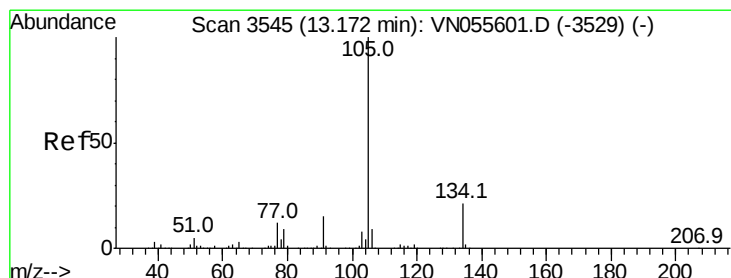
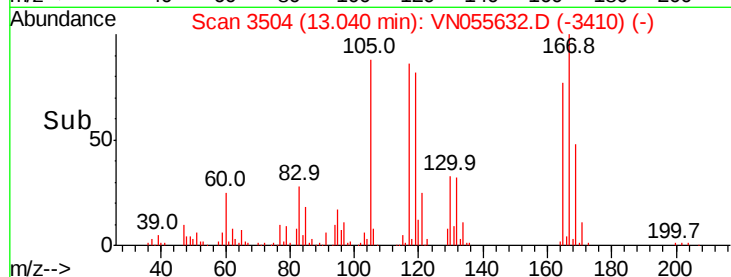
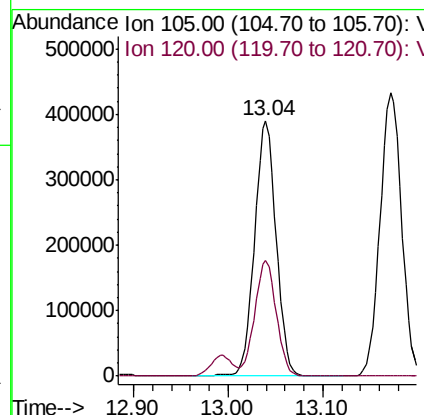
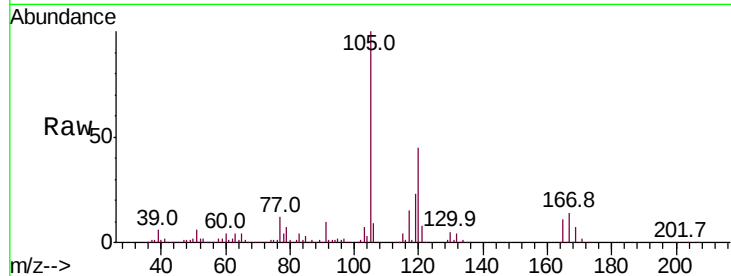
#84
 1,2,4-Trimethylbenzene
 Concen: 49.788 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	45.6	23.1	69.2

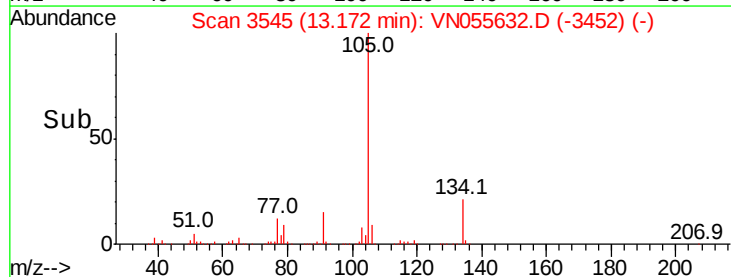
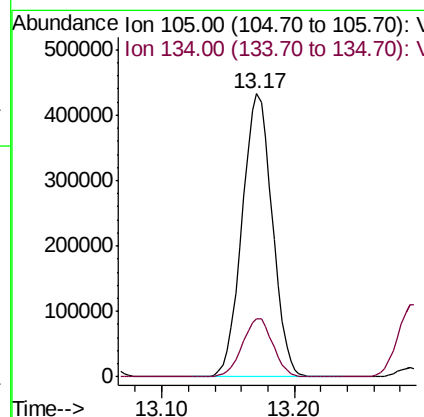
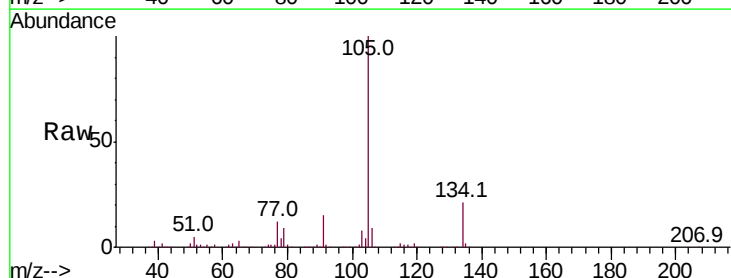
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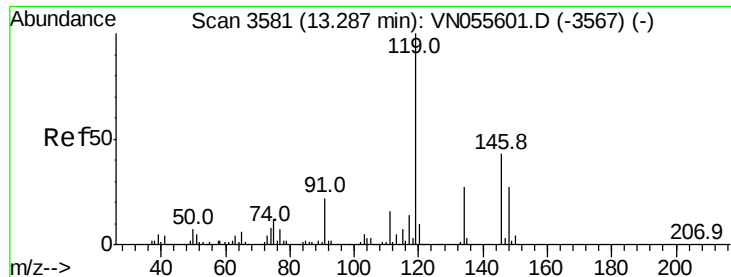
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#85
 sec-Butylbenzene
 Concen: 49.461 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.3	30.9





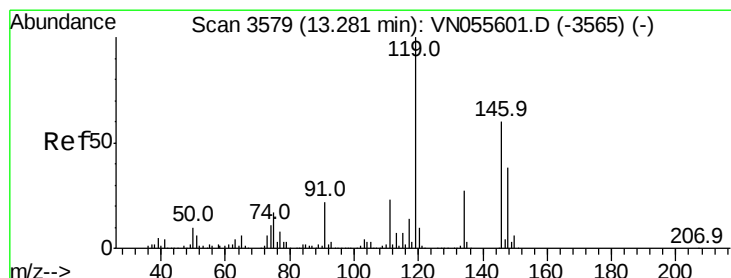
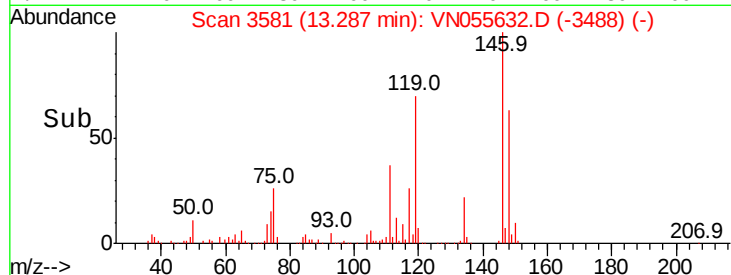
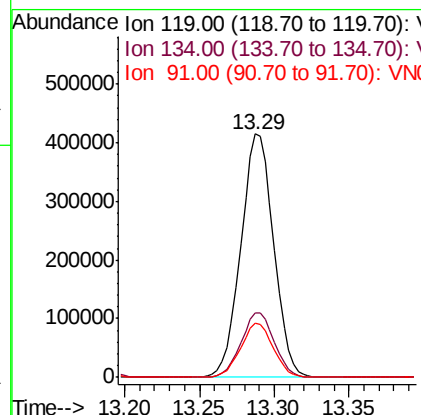
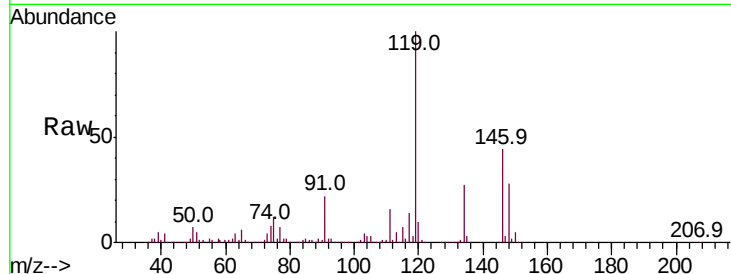
#86
 p-Isopropyltoluene
 Concen: 48.943 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	630400		
134	26.8		13.4	40.2
91	22.0		11.0	33.0

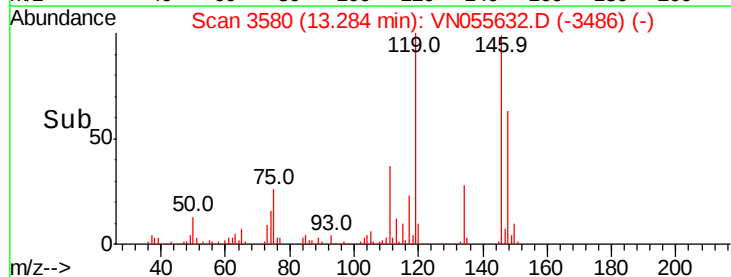
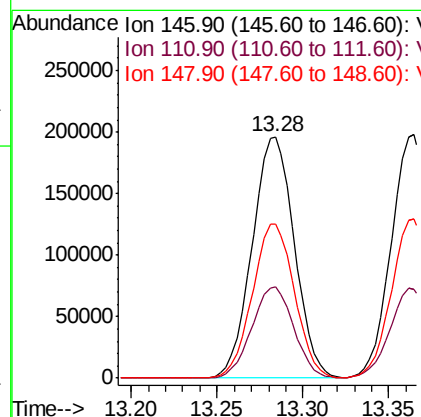
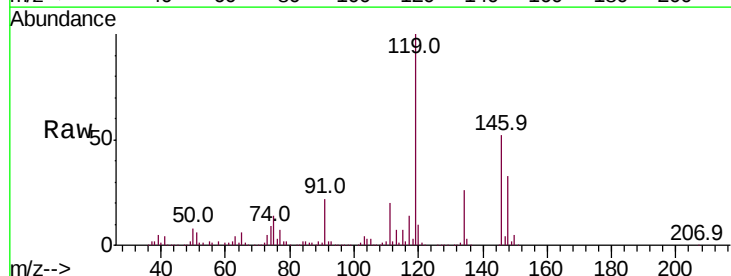
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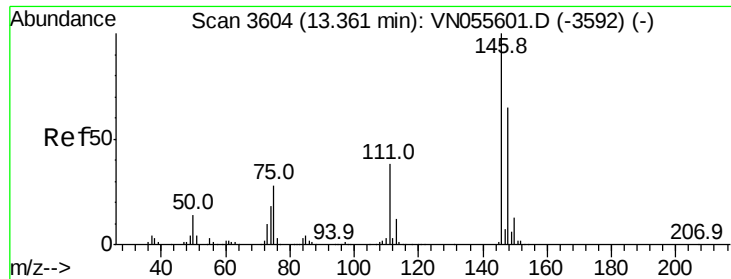
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#87
 1,3-Dichlorobenzene
 Concen: 47.404 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	332835		
111	37.6		18.9	56.9
148	63.7		31.9	95.9





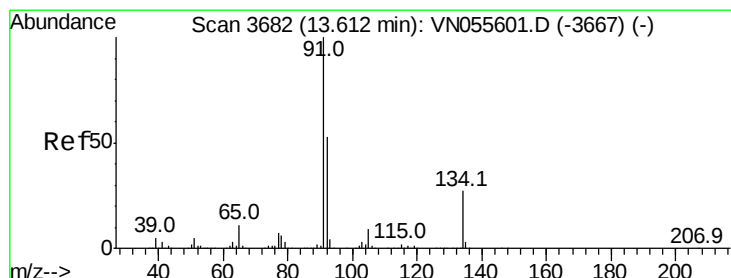
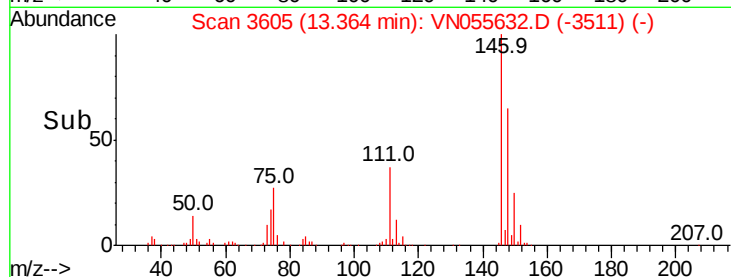
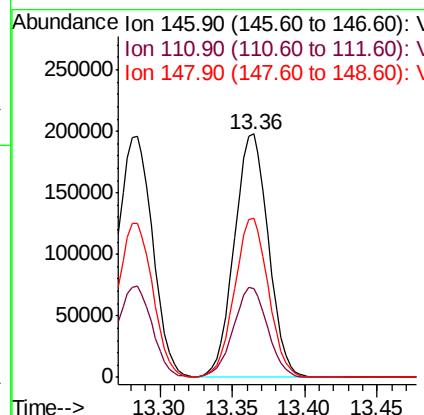
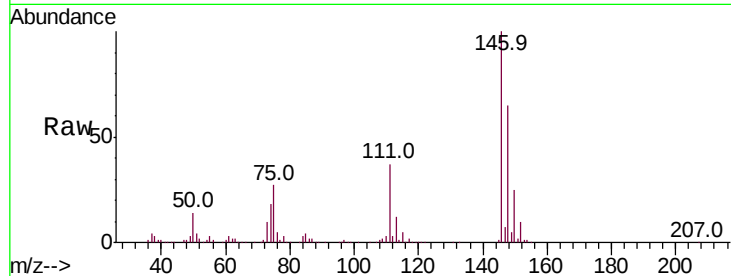
#88
 1,4-Dichlorobenzene
 Concen: 48.206 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.8	56.4
148	64.9	32.4	97.0

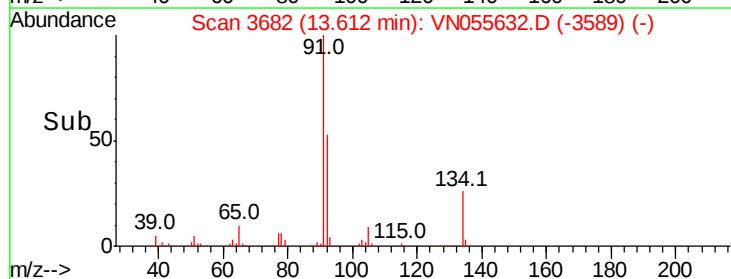
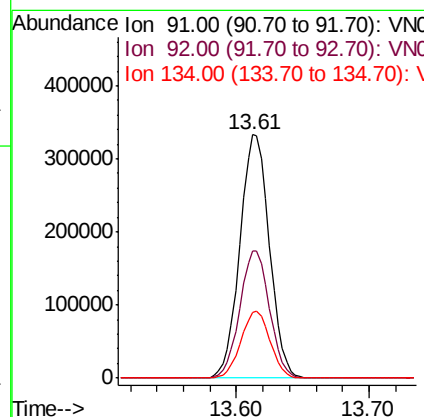
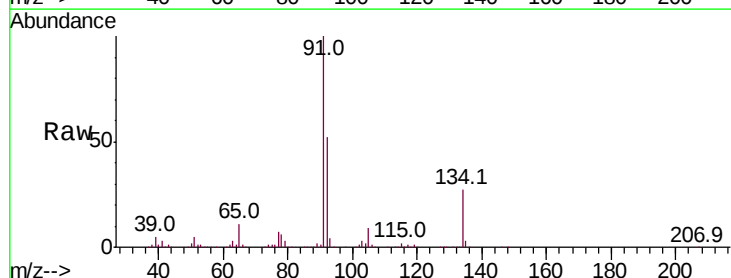
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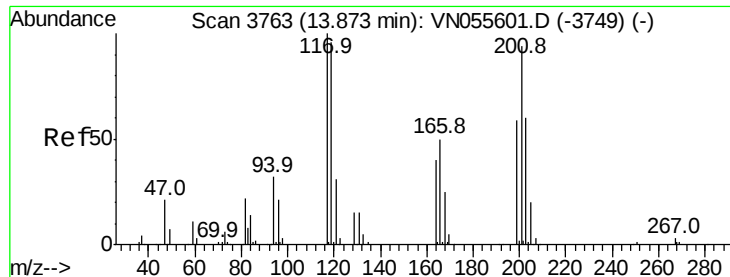
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#89
 n-Butylbenzene
 Concen: 45.326 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.4	79.0
134	27.4	13.7	41.1





#90

Hexachloroethane

Concen: 50.401 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:117 Resp: 123896

Ion Ratio Lower Upper

117 100

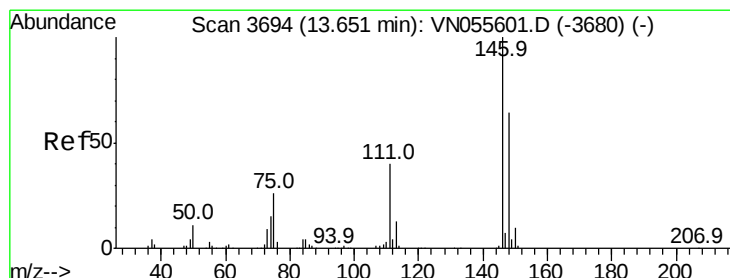
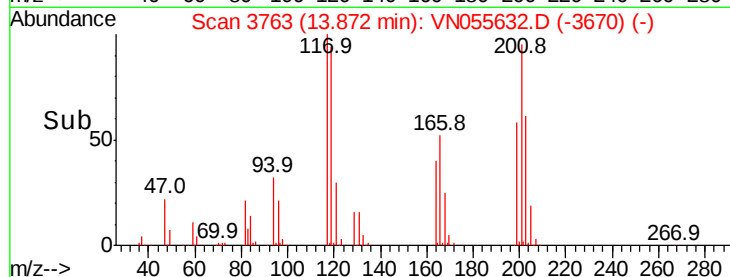
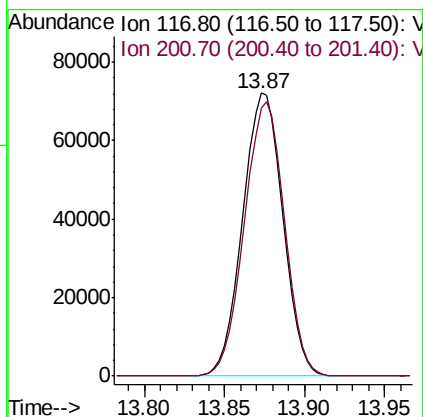
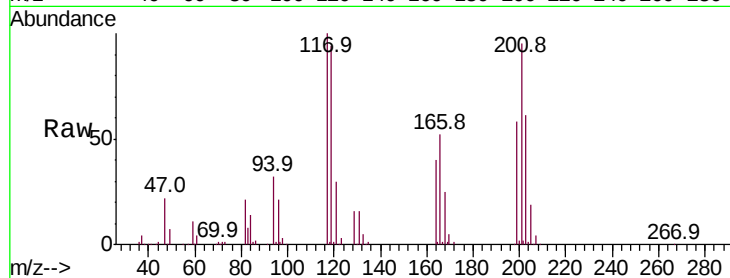
201 96.5 47.1 141.3

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#91

1,2-Dichlorobenzene

Concen: 46.897 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

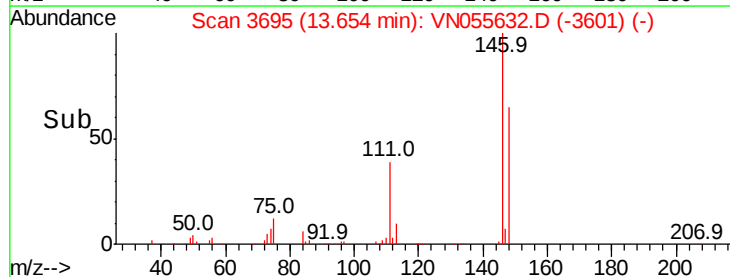
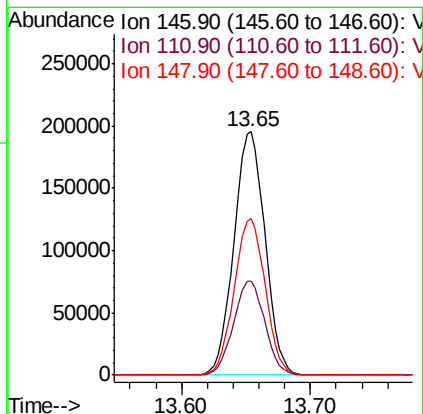
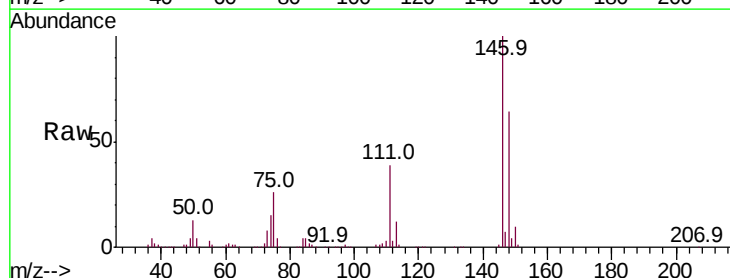
Tgt Ion:146 Resp: 328239

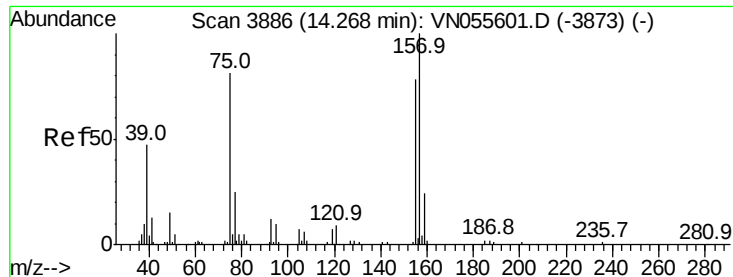
Ion Ratio Lower Upper

146 100

111 38.7 19.7 59.0

148 64.0 32.1 96.3





#92

1,2-Dibromo-3-Chloropropane

Concen: 48.304 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

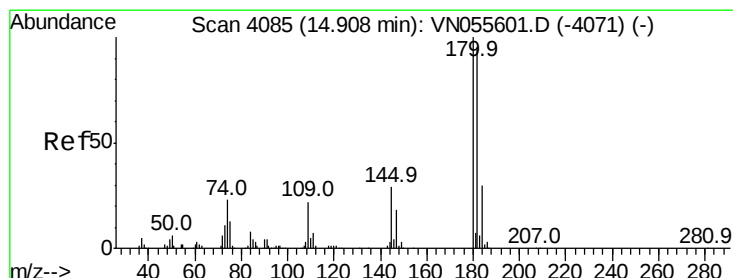
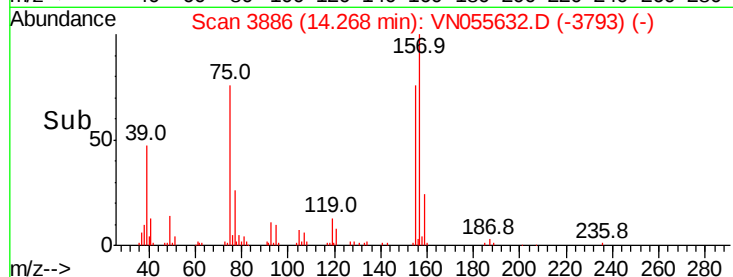
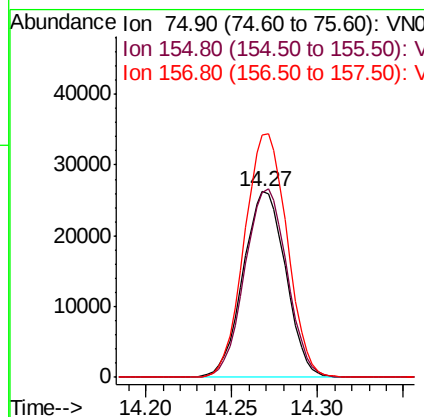
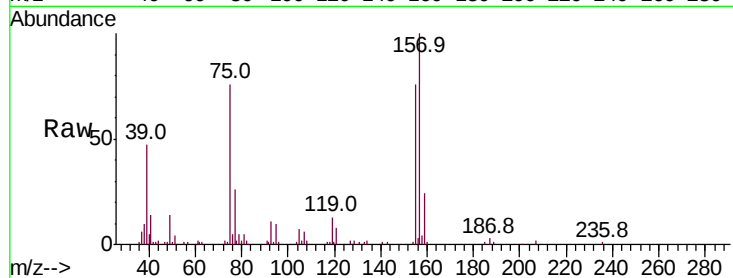
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:	75	Resp:	45328
Ion Ratio	Lower	Upper	
75	100		
155	100.4	48.4	145.0
157	130.8	62.3	186.8

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#93

1,2,4-Trichlorobenzene

Concen: 53.989 ug/l

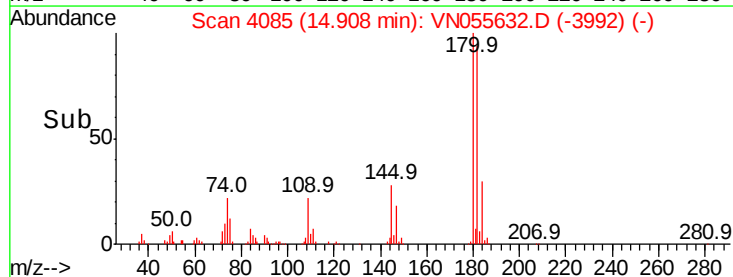
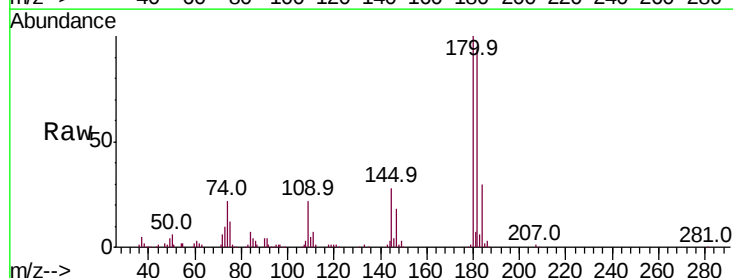
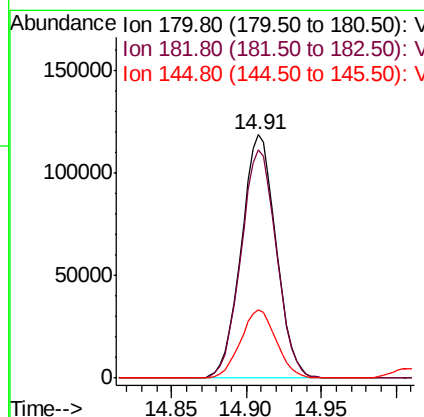
RT: 14.91 min Scan# 4085

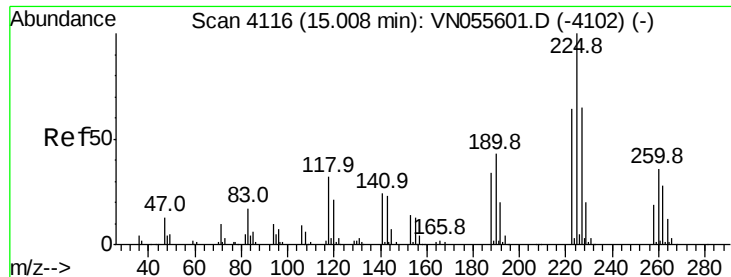
Delta R.T. -0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	180	Resp:	192347
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.9	143.6
145	28.6	14.3	42.9





#94

Hexachlorobutadiene

Concen: 47.214 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Instrument :

MSVOA_N

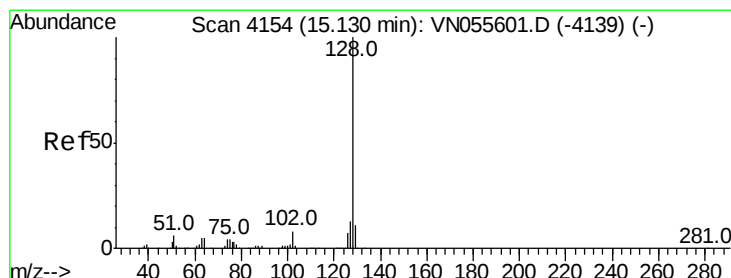
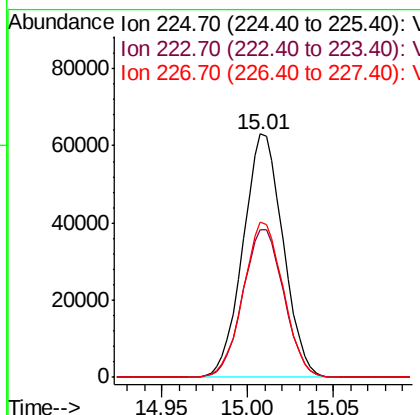
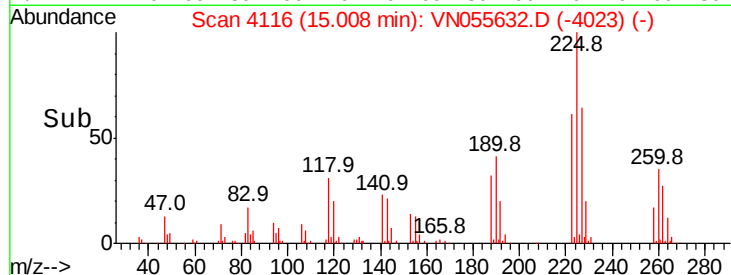
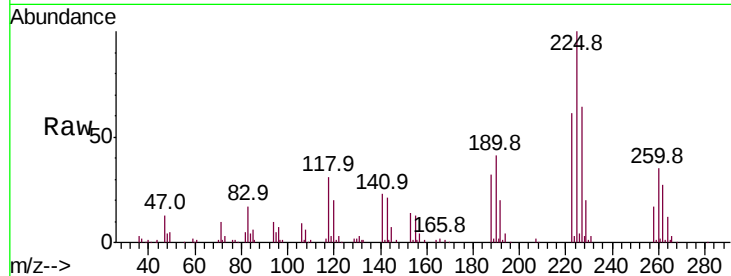
ClientSampleId :

FM-EA-3MW01-051519MSD

Tot Ion:	225	Resp:	101873
Ion Ratio	Lower	Upper	
225	100		
223	62.4	31.6	94.7
227	64.1	32.4	97.0

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#95

Naphthalene

Concen: 50.574 ug/l

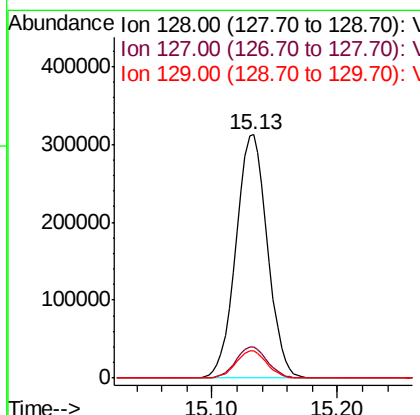
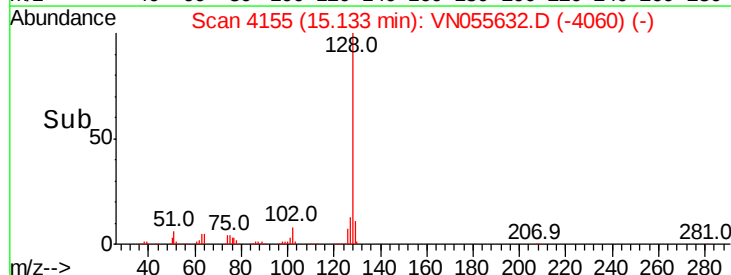
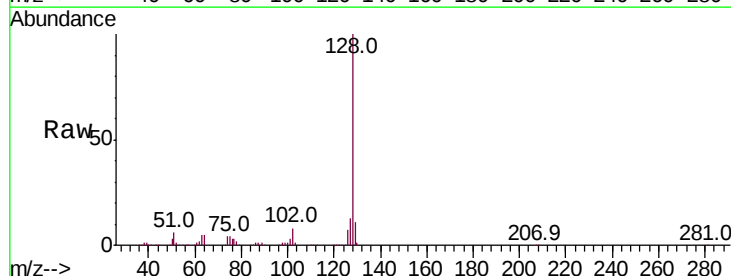
RT: 15.13 min Scan# 4155

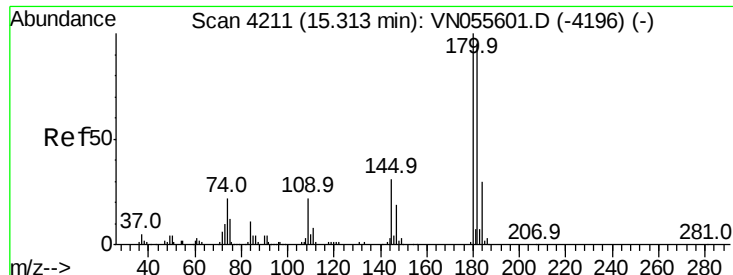
Delta R.T. 0.00 min

Lab File: VN055632.D

Acq: 17 May 2019 23:50

Tgt Ion:	128	Resp:	544013
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 51.557 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN055632.D
 Acq: 17 May 2019 23:50

Instrument :
 MSVOA_N
 ClientSampleId :
 FM-EA-3MW01-051519MSD

Tot Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	96.2	47.9	143.6
145	30.2	15.4	46.1

Manual Integrations
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MMDadoda
 5/20/2019 9:09:20 AM

