

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080619\
 Data File : VN057090.D
 Acq On : 6 Aug 2019 9:51
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMdadoda
 8/9/2019 12:51:32 AM

Quant Time: Aug 07 03:23:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	486704	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	690202	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	618682	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	259726	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	251467	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
35) Dibromofluoromethane	7.58	113	224964	50.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.82%	
50) Toluene-d8	10.08	98	837626	49.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.42%	
62) 4-Bromofluorobenzene	12.40	95	280720	51.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	230772	46.902	ug/l	97
3) Chloromethane	2.05	50	242342	41.132	ug/l	98
4) Vinyl Chloride	2.18	62	229471	41.536	ug/l	99
5) Bromomethane	2.55	94	143352	41.739	ug/l	98
6) Chloroethane	2.69	64	126425	41.513	ug/l	99
7) Trichlorofluoromethane	3.00	101	340161	47.037	ug/l	98
8) Diethyl Ether	3.40	74	129058	47.684	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	210681	46.989	ug/l	99
10) Methyl Iodide	3.94	142	251750	42.020	ug/l	99
11) Tert butyl alcohol	4.77	59	170932	253.827	ug/l	98
12) 1,1-Dichloroethene	3.72	96	195239	45.637	ug/l	98
13) Acrolein	3.59	56	89162	258.188	ug/l	99
14) Allyl chloride	4.31	41	313455	45.043	ug/l	99
15) Acrylonitrile	4.97	53	511263	258.888	ug/l	98
16) Acetone	3.80	43	486838	269.730	ug/l	99
17) Carbon Disulfide	4.04	76	433434	38.128	ug/l	100
18) Methyl Acetate	4.31	43	285665	49.614	ug/l	100
19) Methyl tert-butyl Ether	5.02	73	643688	50.461	ug/l	100
20) Methylene Chloride	4.54	84	229032	44.052	ug/l	96
21) trans-1,2-Dichloroethene	5.02	96	204267	44.958	ug/l	98
22) Diisopropyl ether	5.93	45	656651	45.797	ug/l	97
23) Vinyl Acetate	5.88	43	2407557	242.345	ug/l	99
24) 1,1-Dichloroethane	5.83	63	387073	45.755	ug/l	99
25) 2-Butanone	6.82	43	664610	259.678	ug/l	97
26) 2,2-Dichloropropane	6.81	77	310558	48.279	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	247733	46.100	ug/l	100
28) Bromochloromethane	7.18	49	177757	44.703	ug/l	94
29) Tetrahydrofuran	7.20	42	418969	250.903	ug/l	98
30) Chloroform	7.36	83	394667	45.629	ug/l	99
31) Cyclohexane	7.64	56	334759	40.892	ug/l	98
32) 1,1,1-Trichloroethane	7.56	97	332406	48.165	ug/l	99
36) 1,1-Dichloropropene	7.78	75	281060	46.278	ug/l	99
37) Ethyl Acetate	6.91	43	258771	53.199	ug/l	99
38) Carbon Tetrachloride	7.76	117	286182	49.816	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	351097	45.232	ug/l	99
40) Benzene	8.03	78	873912	46.718	ug/l	99
41) Methacrylonitrile	7.16	41	117022	52.041	ug/l	94
42) 1,2-Dichloroethane	8.11	62	286904	48.938	ug/l	99
43) Isopropyl Acetate	8.15	43	427566	53.182	ug/l	99
44) Trichloroethene	8.82	130	248294	48.180	ug/l	99
45) 1,2-Dichloropropane	9.11	63	236202	47.208	ug/l	99
46) Dibromomethane	9.20	93	150178	49.770	ug/l	97
47) Bromodichloromethane	9.39	83	302610	51.008	ug/l	99
48) Methyl methacrylate	9.19	41	207193	53.380	ug/l	99
49) 1,4-Dioxane	9.19	88	80064	1000.927	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	1288295	269.695	ug/l	100
52) Toluene	10.15	92	548582	48.812	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	316855	51.468	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	360335	50.340	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	226996	50.364	ug/l	98
56) Ethyl methacrylate	10.42	69	324343	47.734	ug/l	100
57) 1,3-Dichloropropane	10.70	76	371614	49.722	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	586755	217.246	ug/l	98
59) 2-Hexanone	10.74	43	938203	254.990	ug/l	99
60) Dibromochloromethane	10.90	129	246166	53.311	ug/l	98
61) 1,2-Dibromoethane	11.00	107	232292	52.813	ug/l	98
64) Tetrachloroethene	10.63	164	243283	45.632	ug/l	98
65) Chlorobenzene	11.43	112	604898	47.971	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.50	131	238349	50.221	ug/l	99
67) Ethyl Benzene	11.50	91	1046557	48.022	ug/l	100
68) m/p-Xylenes	11.62	106	792700	98.558	ug/l	100
69) o-Xylene	11.94	106	389288	49.473	ug/l	99
70) Styrene	11.96	104	636621	45.931	ug/l	98
71) Bromoform	12.12	173	181537	54.786	ug/l #	100
73) Isopropylbenzene	12.24	105	1048056	46.691	ug/l	99
74) N-amyl acetate	12.07	43	334169	51.271	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	305635	54.078	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	267845m	50.780	ug/l	
77) Bromobenzene	12.52	156	276373	47.175	ug/l	99
78) n-propylbenzene	12.59	91	1142304	47.661	ug/l	100
79) 2-Chlorotoluene	12.67	91	685097	46.422	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	888761	48.243	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	91002	55.433	ug/l	99
82) 4-Chlorotoluene	12.77	91	667427	48.326	ug/l	100
83) tert-Butylbenzene	12.99	119	788907	48.374	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	866664	48.891	ug/l	100
85) sec-Butylbenzene	13.17	105	1008883	47.960	ug/l	99
86) p-Isopropyltoluene	13.28	119	911130	48.785	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	439316	49.298	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	421239	49.102	ug/l	100
89) n-Butylbenzene	13.61	91	692164	48.088	ug/l	99
90) Hexachloroethane	13.87	117	161556	50.237	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	436778	49.800	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	48449	54.268	ug/l	98

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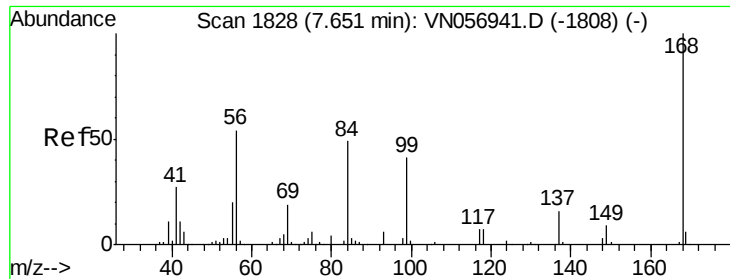
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	196616	43.811	ug/l	99
94) Hexachlorobutadiene	15.00	225	181063	59.748	ug/l	99
95) Naphthalene	15.12	128	474577	43.507	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	213470	46.825	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 486704

Ion Ratio Lower Upper

168 100

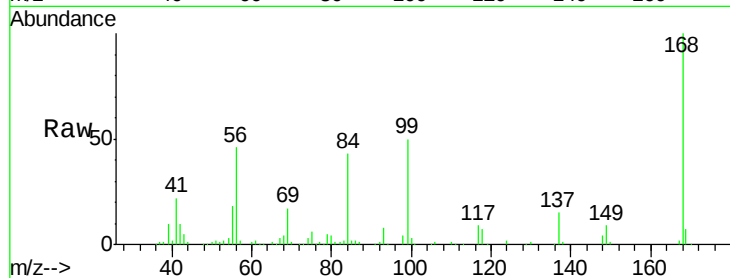
99 50.1 39.0 58.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

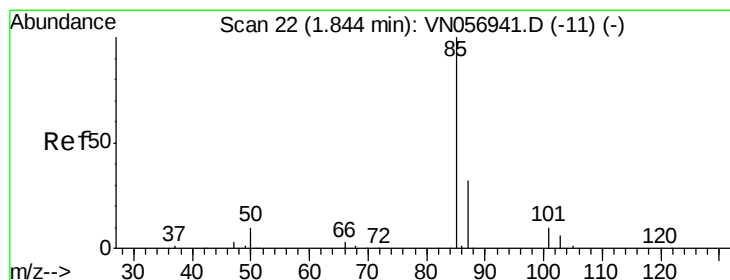
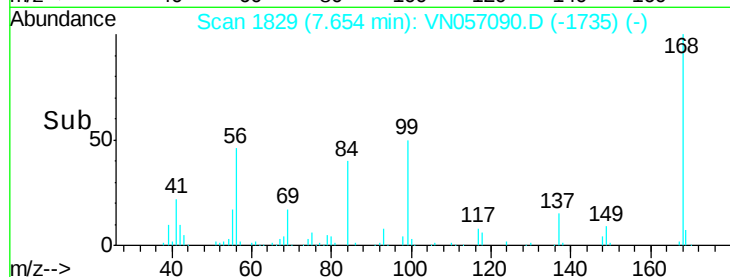
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 46.902 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN057090.D

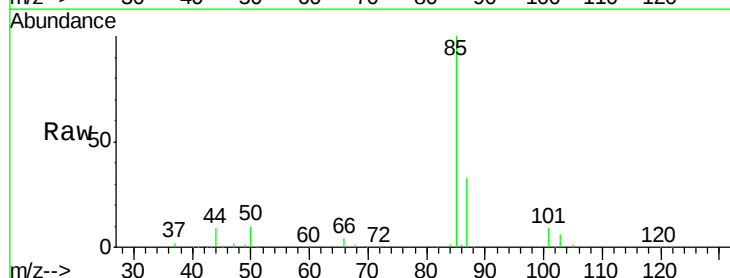
Acq: 6 Aug 2019 9:51

Tgt Ion: 85 Resp: 230772

Ion Ratio Lower Upper

85 100

87 33.4 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

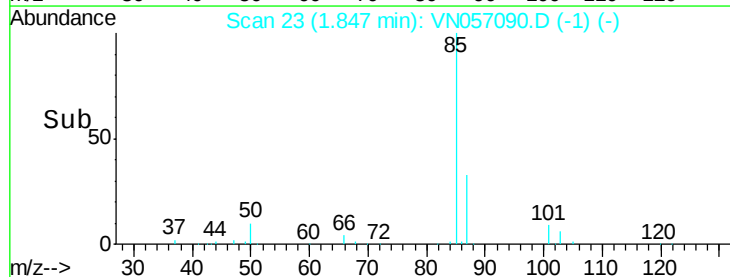
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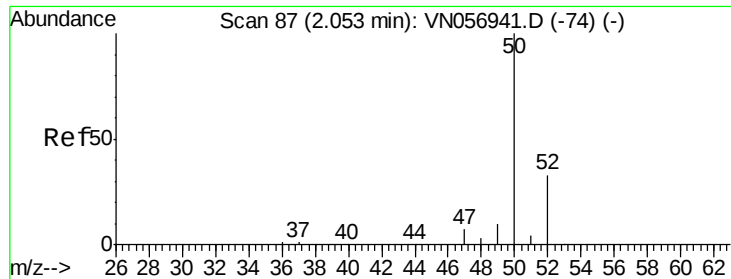
100000

50000

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Time-->





#3

Chloromethane

Concen: 41.132 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 242342

Ion Ratio Lower Upper

50 100

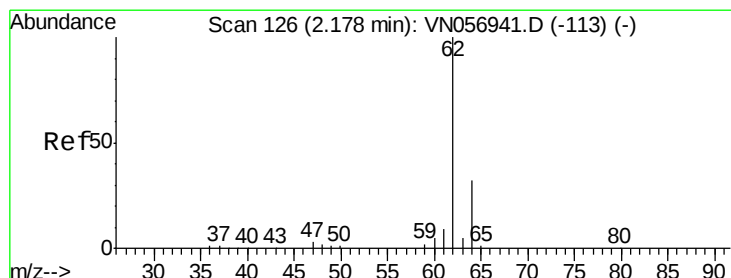
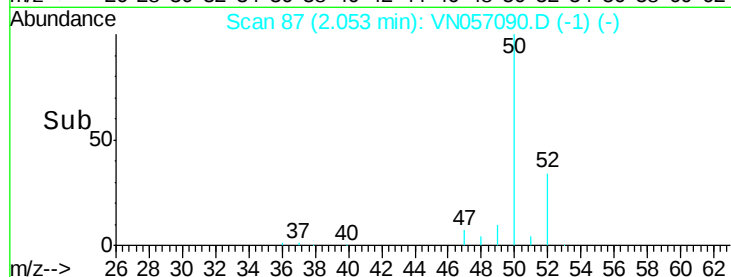
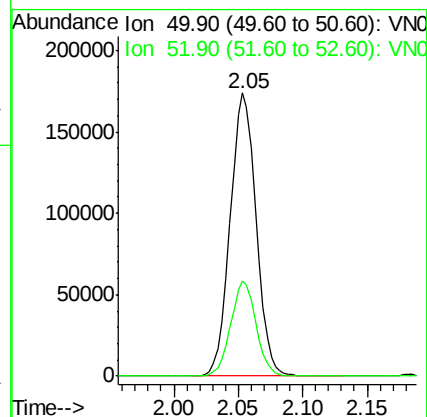
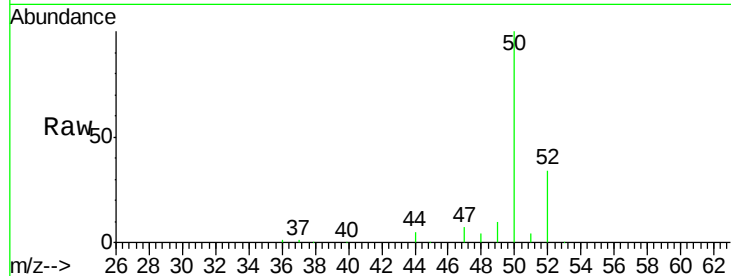
52 33.6 26.2 39.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 41.536 ug/l

RT: 2.18 min Scan# 126

Delta R.T. 0.00 min

Lab File: VN057090.D

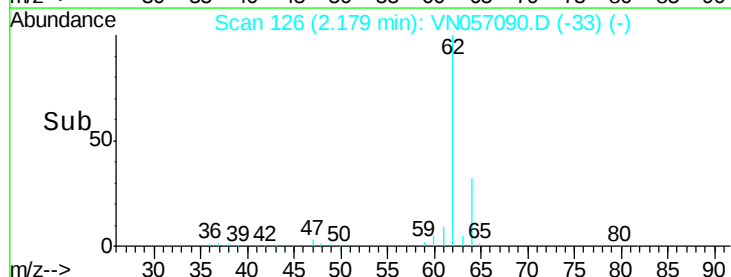
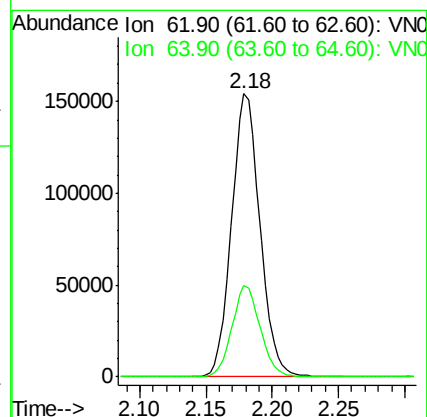
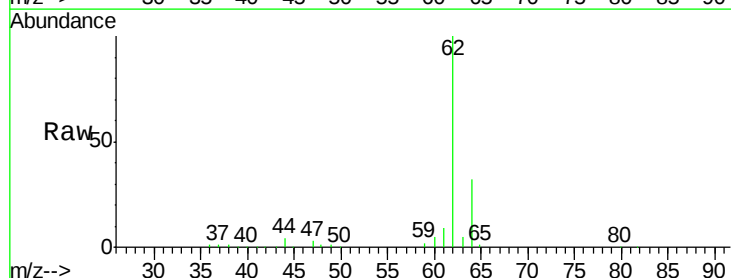
Acq: 6 Aug 2019 9:51

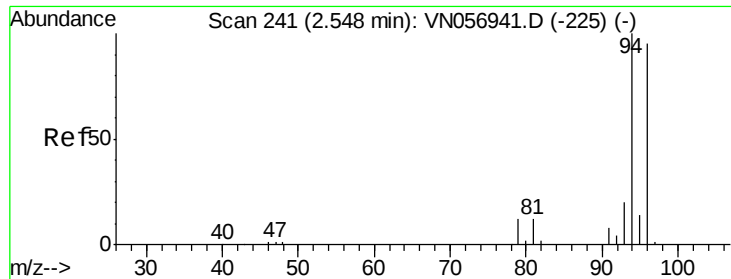
Tgt Ion: 62 Resp: 229471

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.0





#5

Bromomethane

Concen: 41.739 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 143352

Ion Ratio Lower Upper

94 100

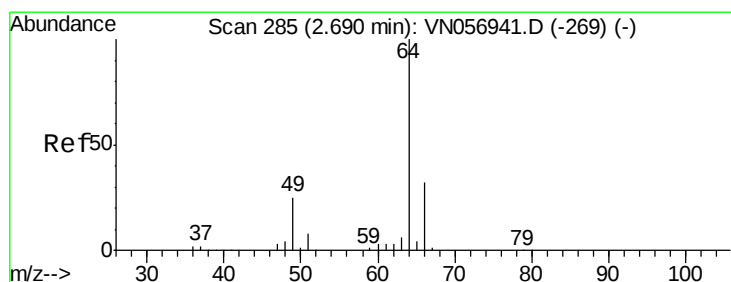
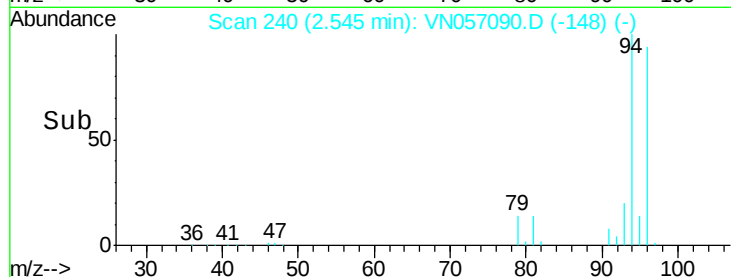
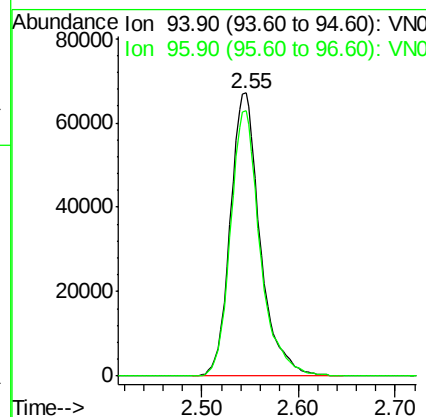
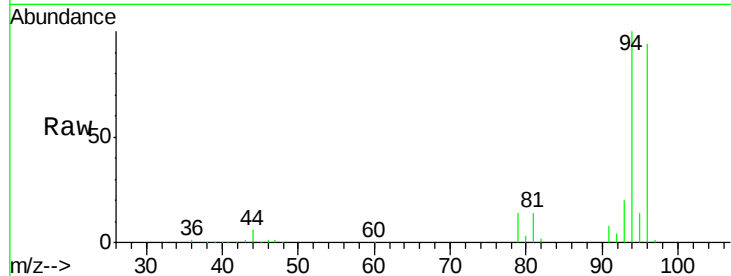
96 93.6 76.2 114.2

Manual Integrations

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#6

Chloroethane

Concen: 41.513 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.00 min

Lab File: VN057090.D

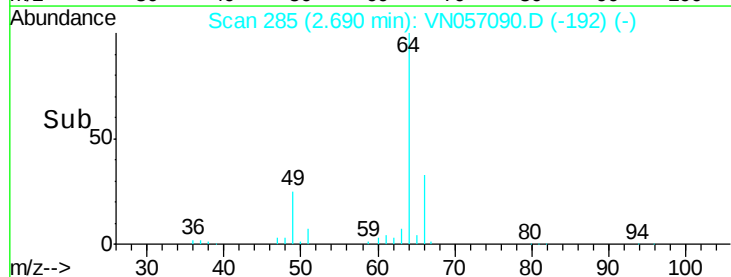
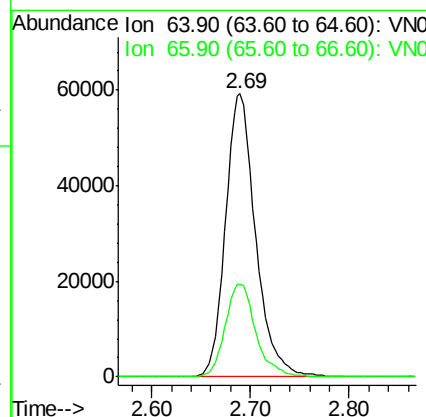
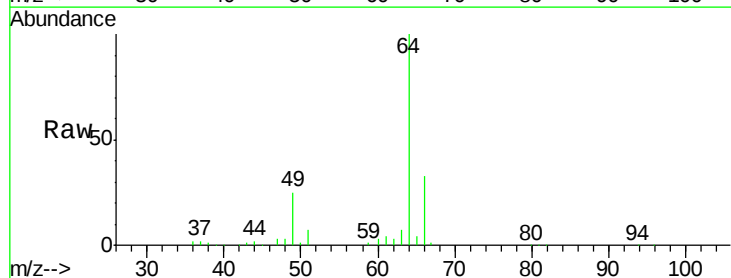
Acq: 6 Aug 2019 9:51

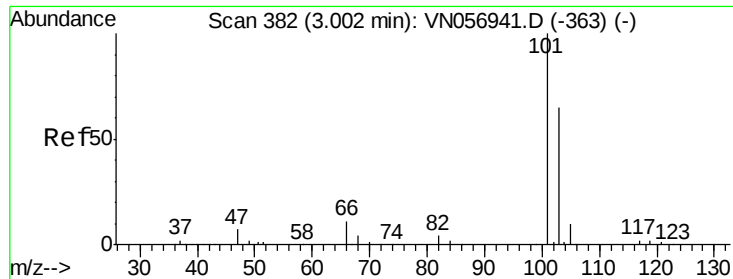
Tgt Ion: 64 Resp: 126425

Ion Ratio Lower Upper

64 100

66 32.9 25.8 38.8





#7

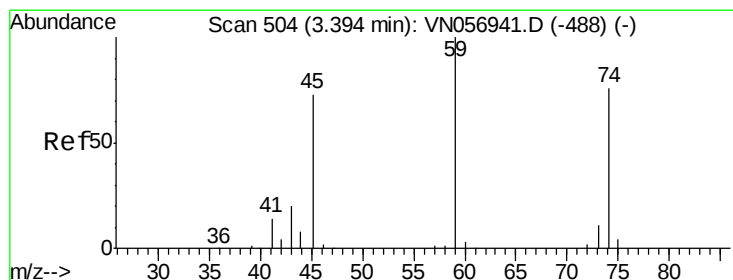
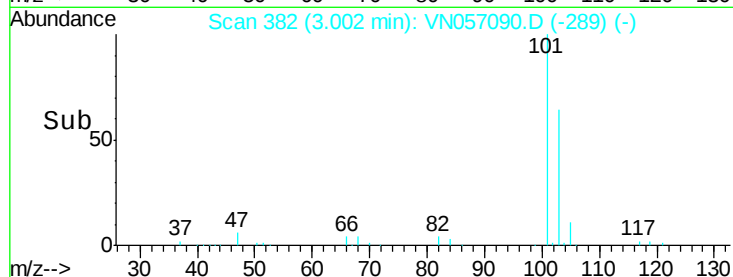
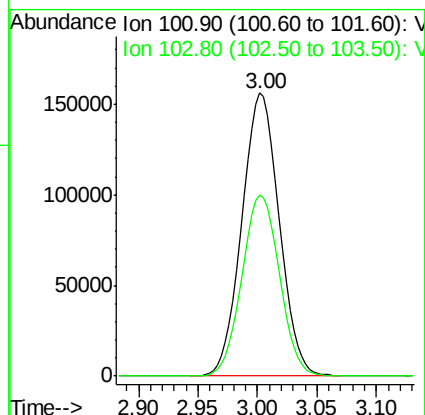
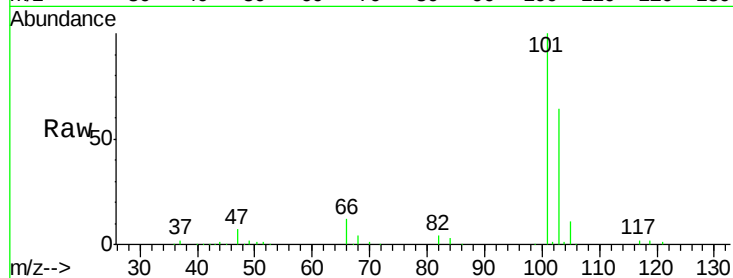
Trichlorofluoromethane
Concen: 47.037 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 340161
Ion Ratio Lower Upper
101 100
103 63.9 52.1 78.1

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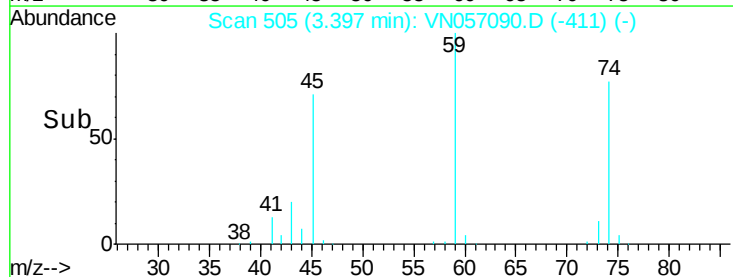
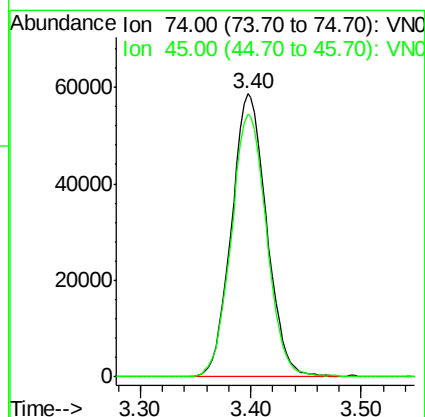
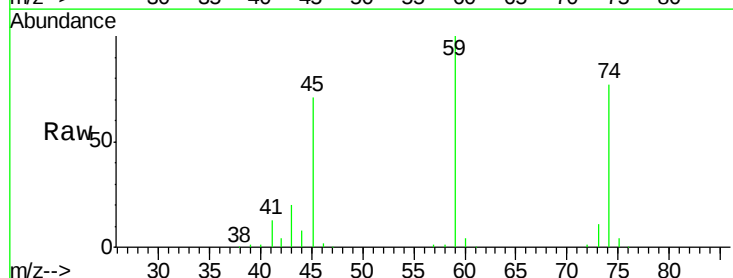
MMdadoda
8/9/2019 12:51:32 AM

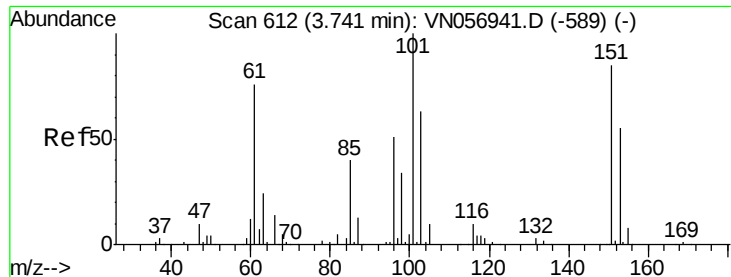


#8

Diethyl Ether
Concen: 47.684 ug/l
RT: 3.40 min Scan# 505
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion: 74 Resp: 129058
Ion Ratio Lower Upper
74 100
45 93.6 48.1 144.3





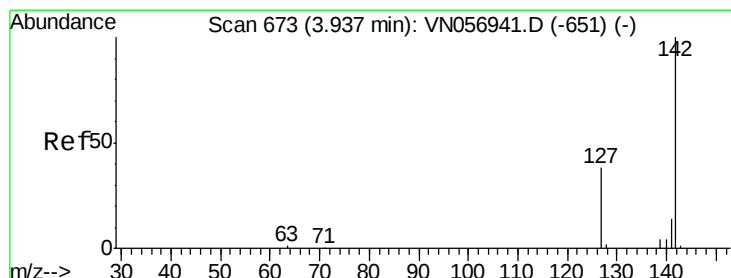
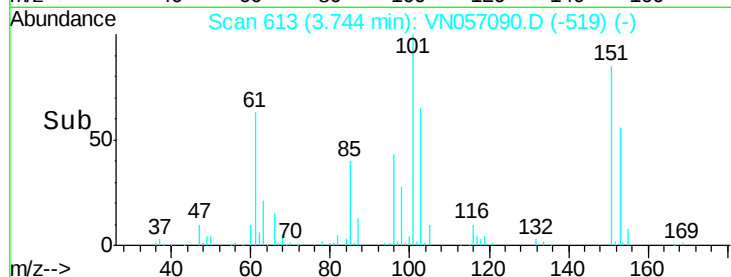
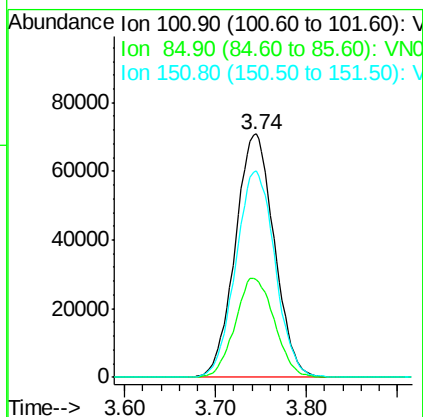
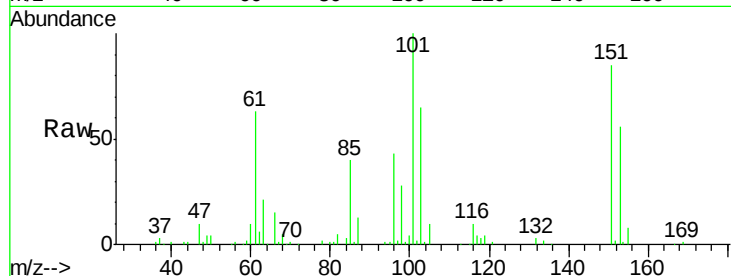
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.989 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

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Tot Ion	Ratio	Resp	Lower	Upper
101	100	210681		
85	40.9	32.3	48.5	
151	85.5	68.0	102.0	

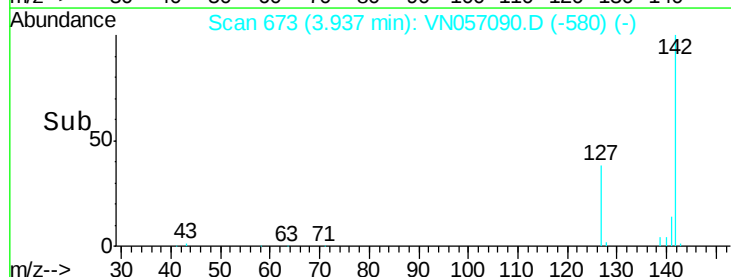
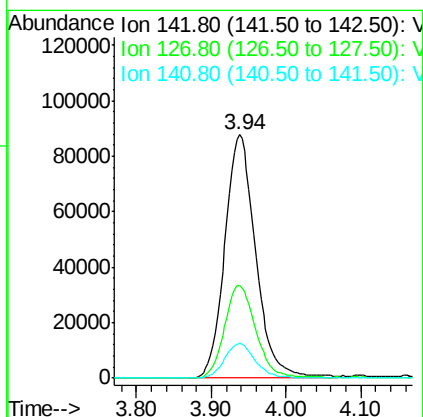
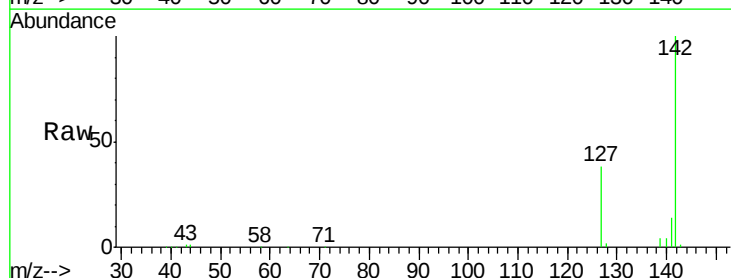
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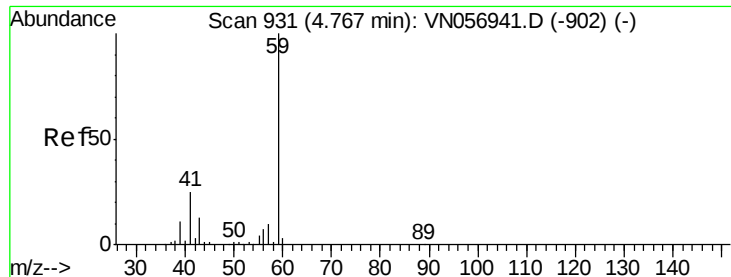
MMdadoda
8/9/2019 12:51:32 AM



#10
Methyl Iodide
Concen: 42.020 ug/l
RT: 3.94 min Scan# 673
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	251750		
127	38.3	30.4	45.6	
141	14.2	11.1	16.7	





#11

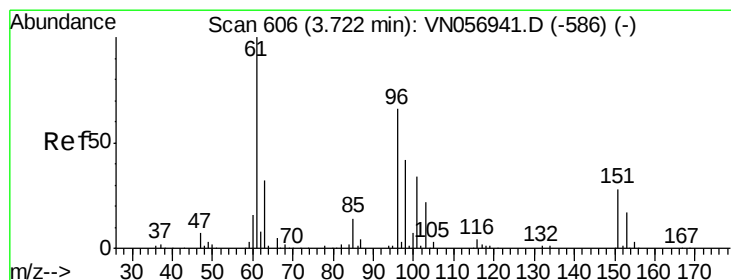
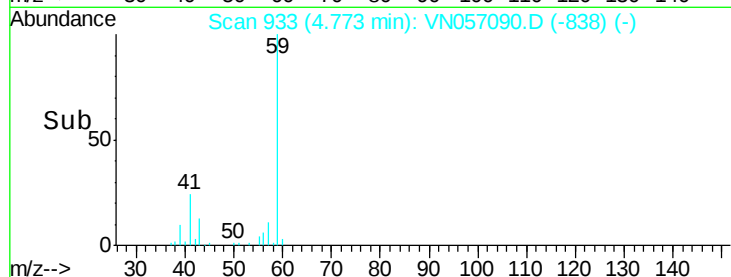
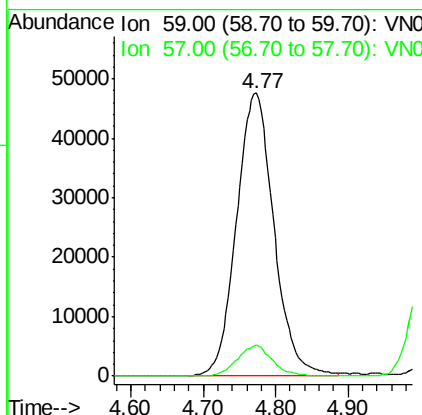
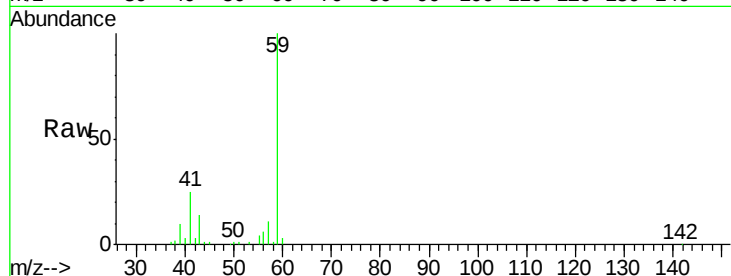
Tert butyl alcohol
Concen: 253.827 ug/l
RT: 4.77 min Scan# 933
Delta R.T. 0.01 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	59	Resp	170932
Ion Ratio	100	Lower	Upper
57	10.1	7.5	11.3

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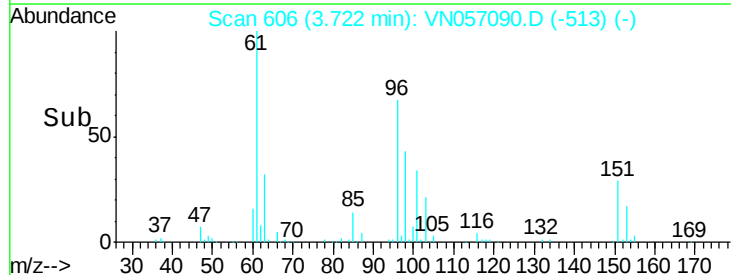
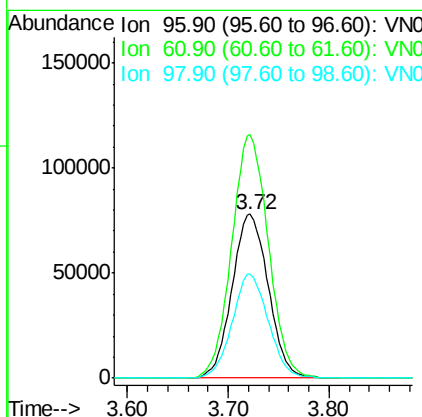
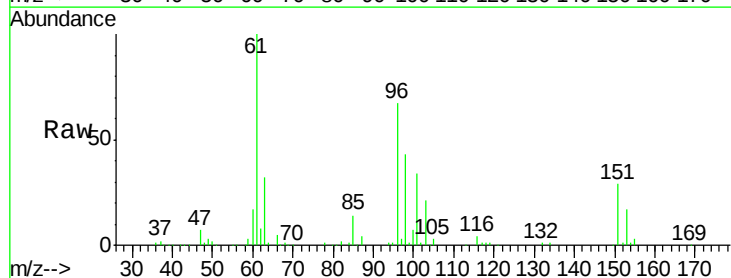
MMDadoda
8/9/2019 12:51:32 AM

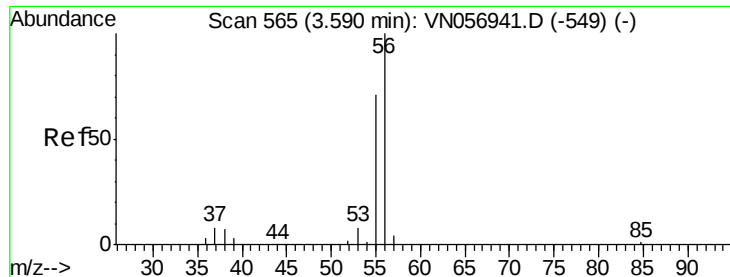


#12

1,1-Dichloroethene
Concen: 45.637 ug/l
RT: 3.72 min Scan# 606
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	96	Resp	195239
Ion Ratio	100	Lower	Upper
61	148.4	121.8	182.8
98	63.6	51.7	77.5





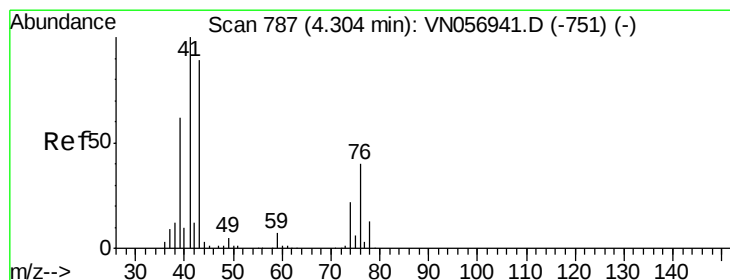
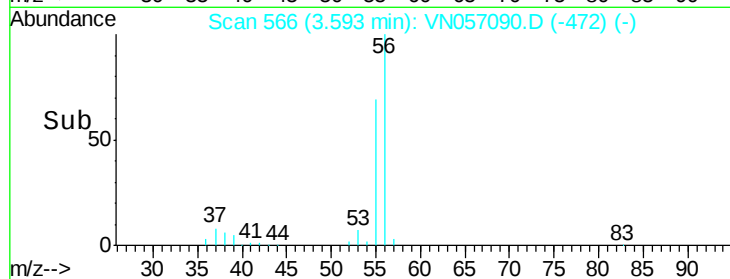
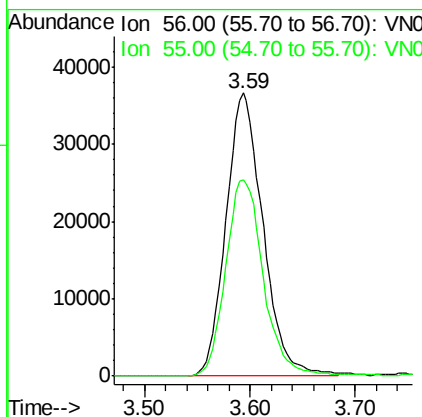
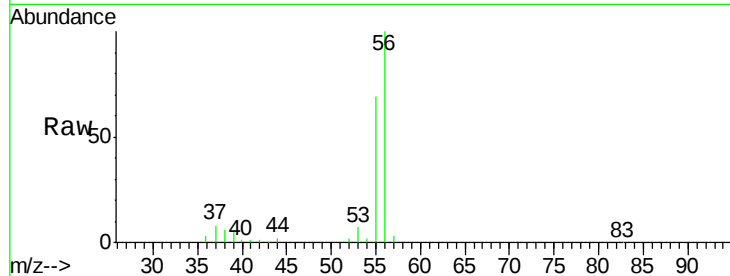
#13
 Acrolein
 Concen: 258.188 ug/l
 RT: 3.59 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.5	55.8	83.6

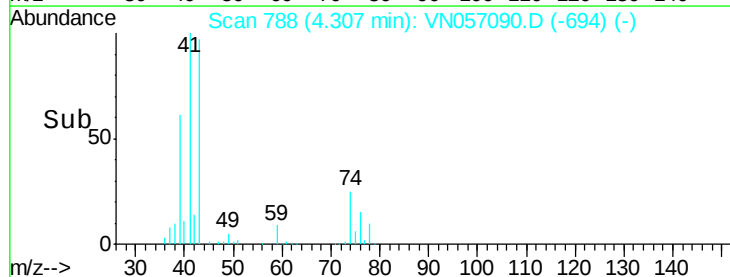
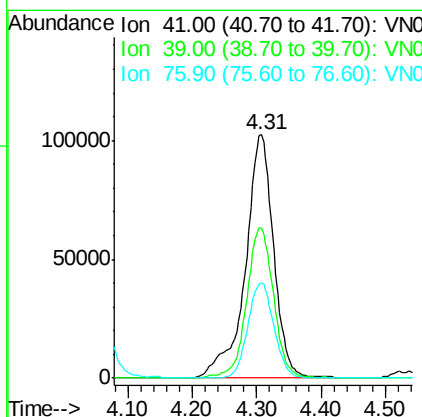
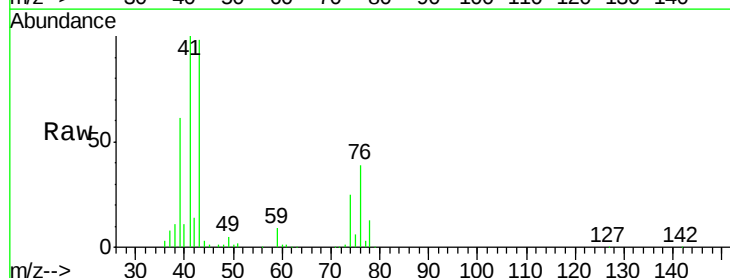
Manual Integrations
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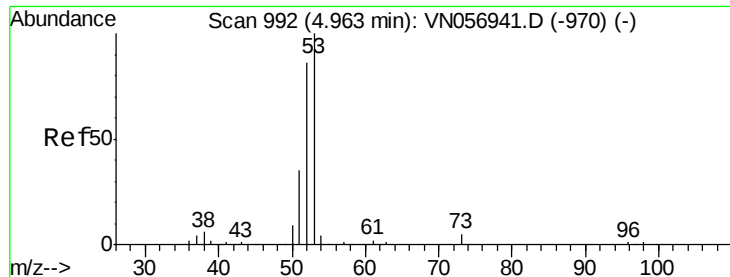
MMdadoda
 8/9/2019 12:51:32 AM



#14
 Allyl chloride
 Concen: 45.043 ug/l
 RT: 4.31 min Scan# 788
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
41	100		
39	58.9	46.4	69.6
76	36.0	28.4	42.6





#15

Acrylonitrile

Concen: 258.888 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.01 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

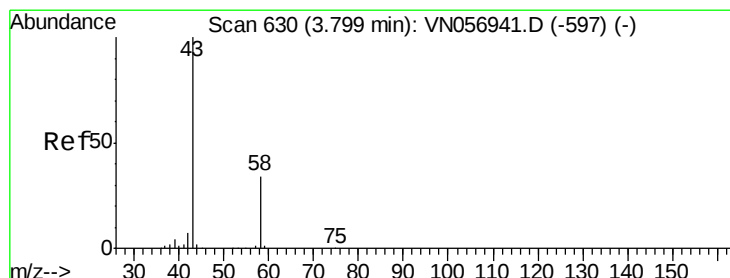
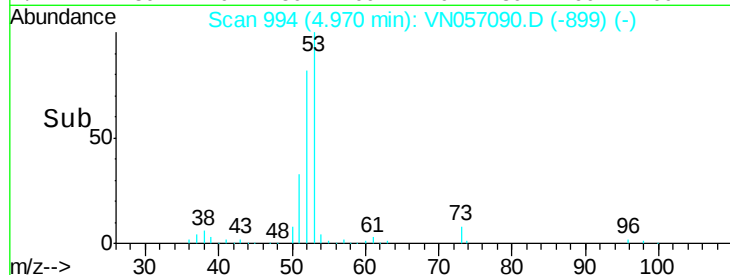
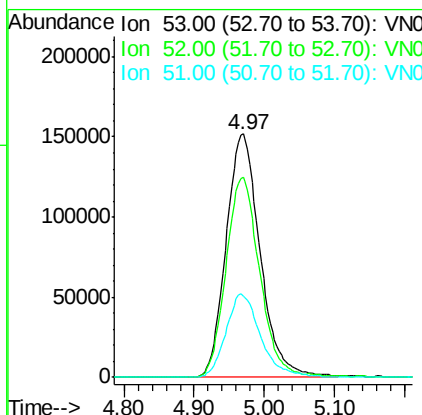
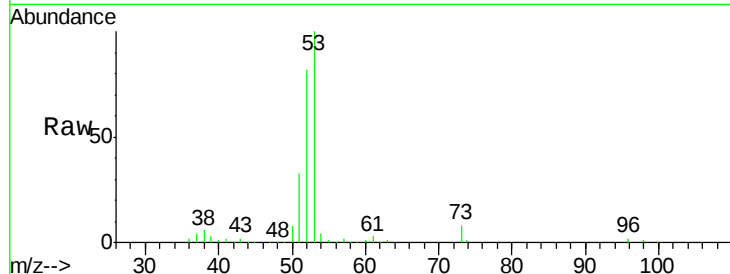
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	511263
Ion Ratio	Lower	Upper	
53	100		
52	80.9	66.5	99.7
51	34.9	28.4	42.6

Manual Integrations
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#16

Acetone

Concen: 269.730 ug/l

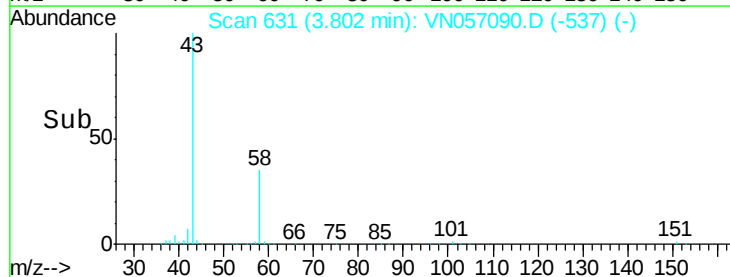
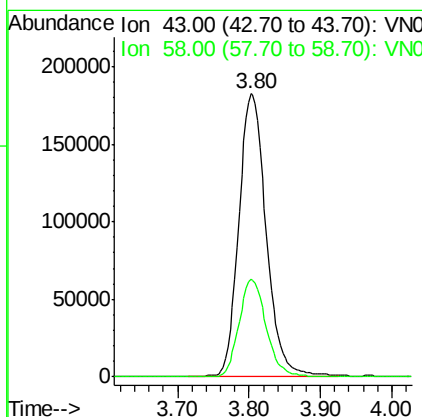
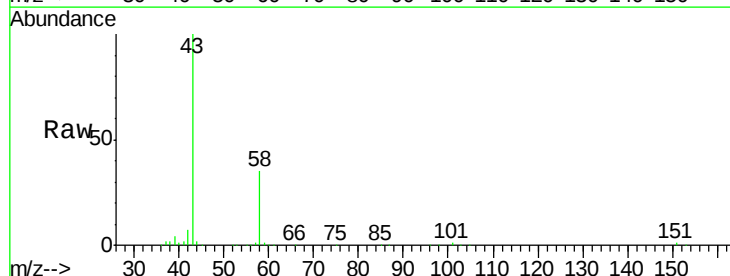
RT: 3.80 min Scan# 631

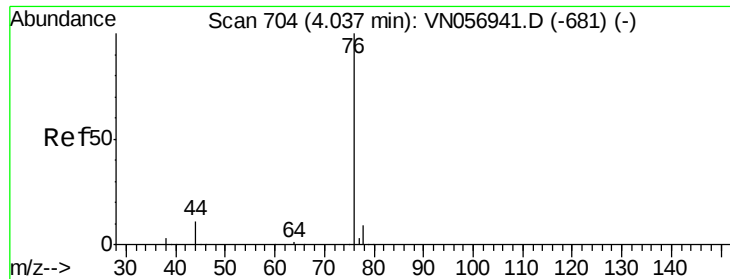
Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Tgt Ion:	43	Resp:	486838
Ion Ratio	Lower	Upper	
43	100		
58	34.6	27.2	40.8





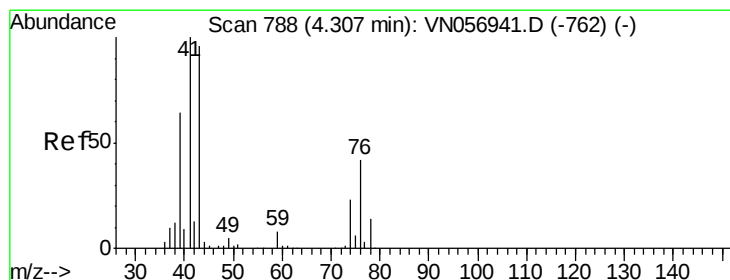
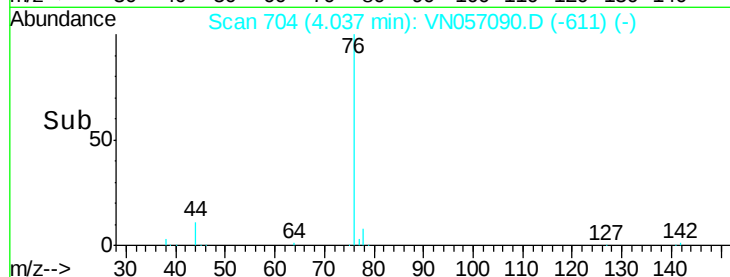
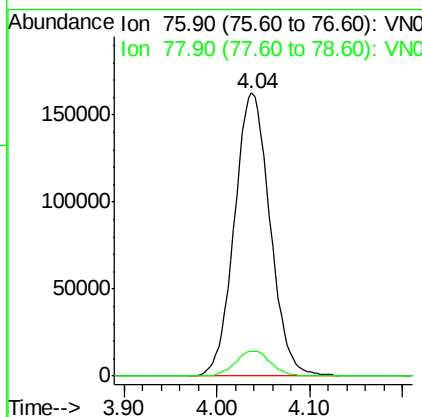
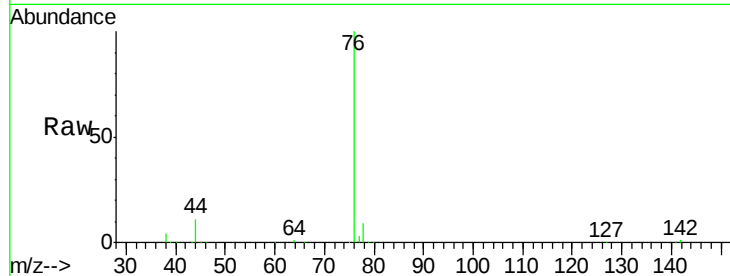
#17
Carbon Disulfide
Concen: 38.128 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

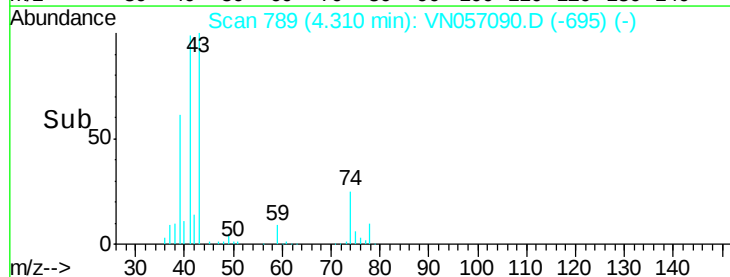
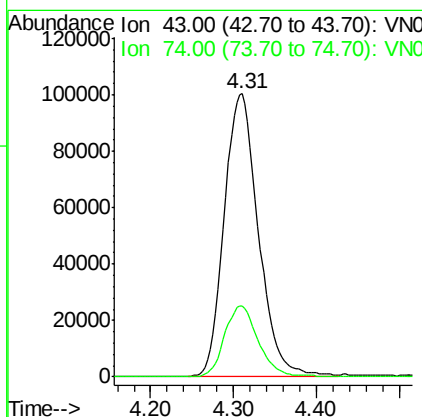
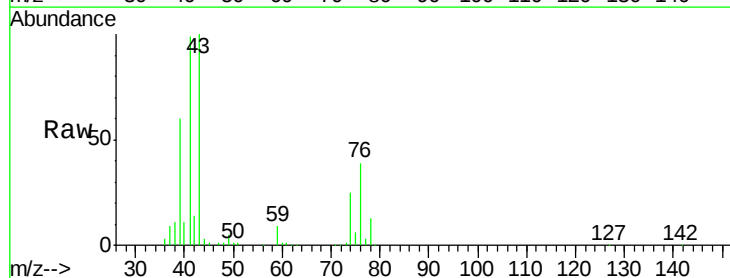
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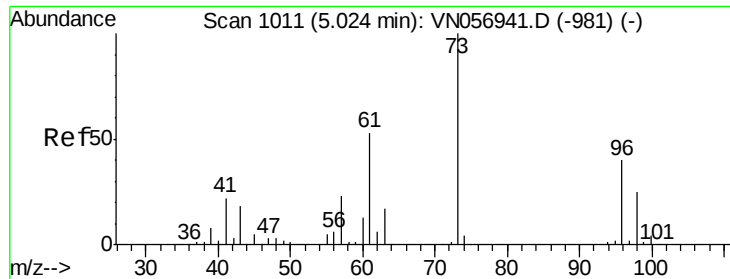
MMDadoda
8/9/2019 12:51:32 AM



#18
Methyl Acetate
Concen: 49.614 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.7	29.5





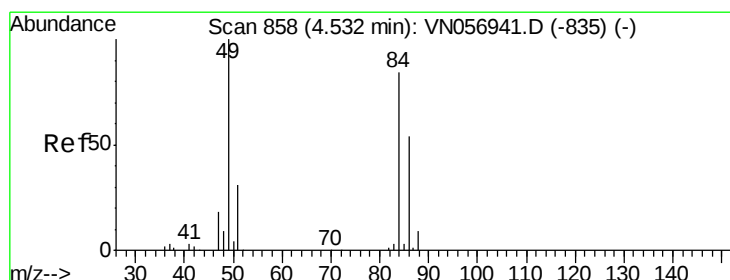
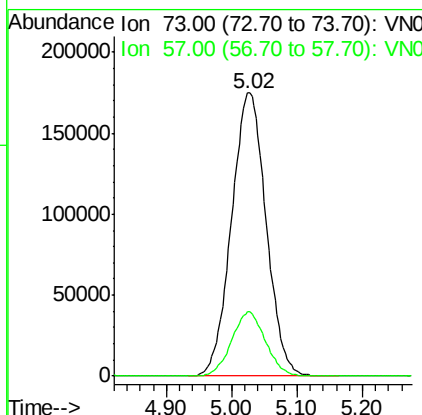
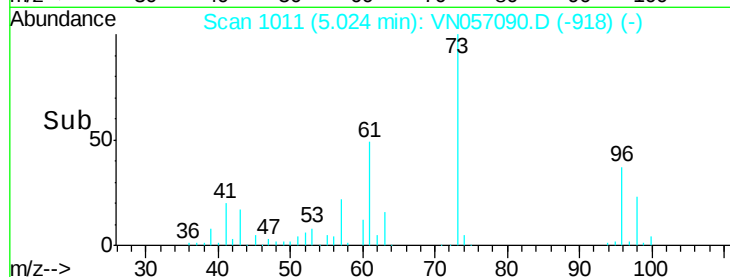
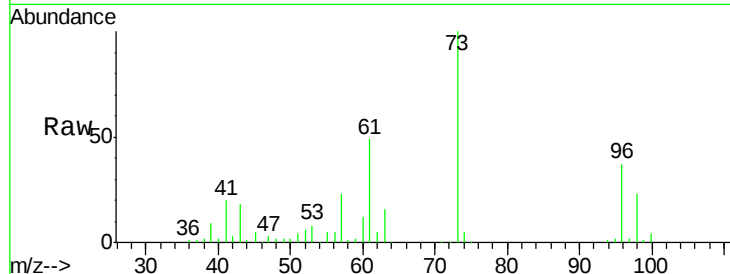
#19
Methyl tert-butyl Ether
Concen: 50.461 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.3	27.5

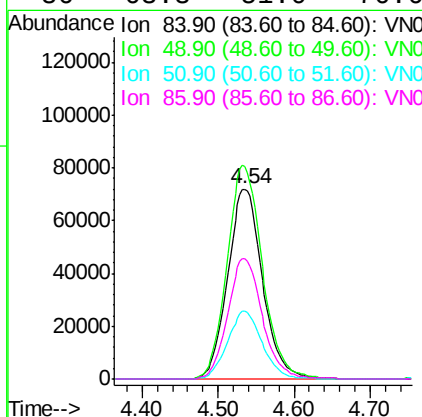
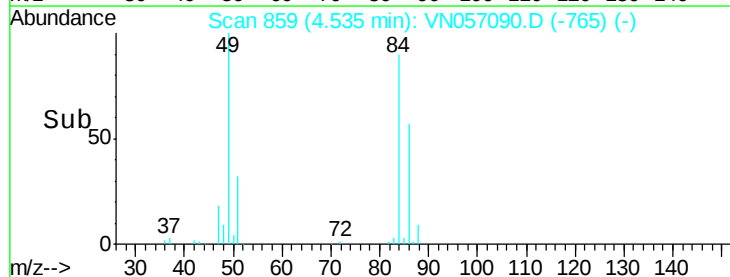
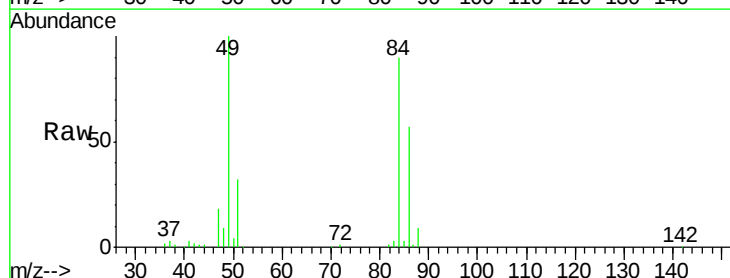
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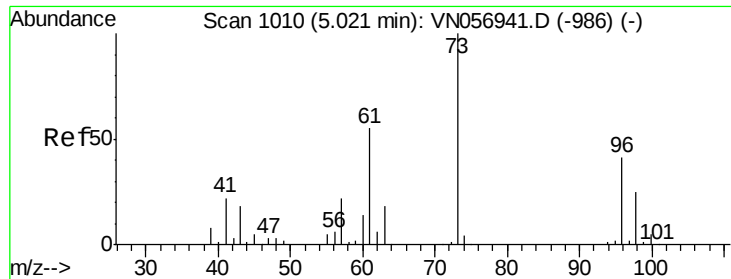
MMDadoda
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#20
Methylene Chloride
Concen: 44.052 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
84	100		
49	111.7	95.2	142.8
51	35.8	29.7	44.5
86	63.3	51.0	76.6





#21

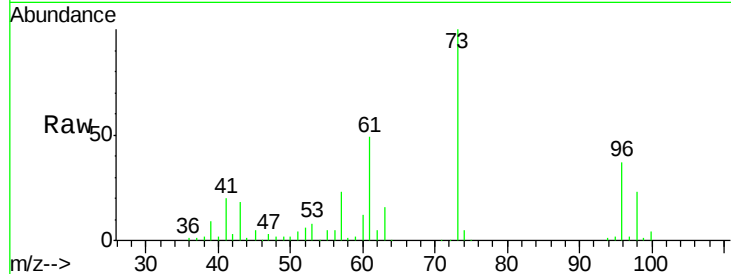
trans-1,2-Dichloroethene
Concen: 44.958 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

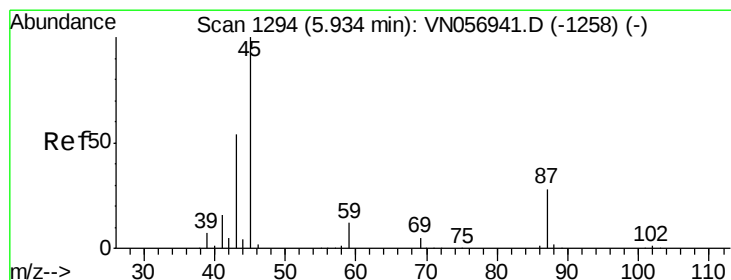
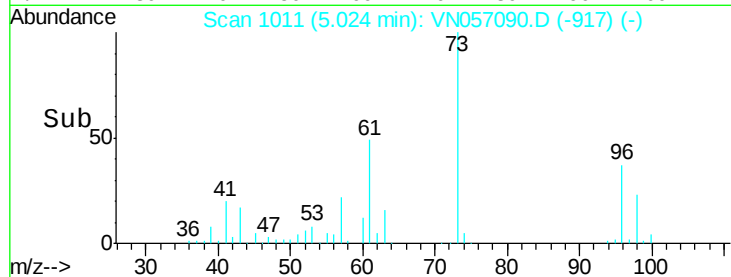
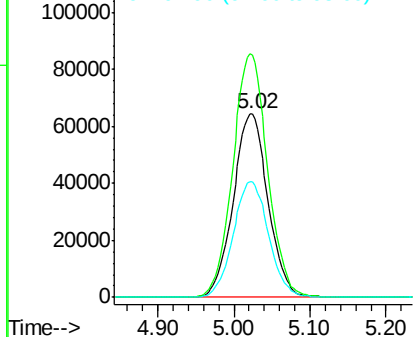
Tot Ion	Ratio	Lower	Upper
96	100		
61	131.7	107.5	161.3
98	63.0	49.9	74.9

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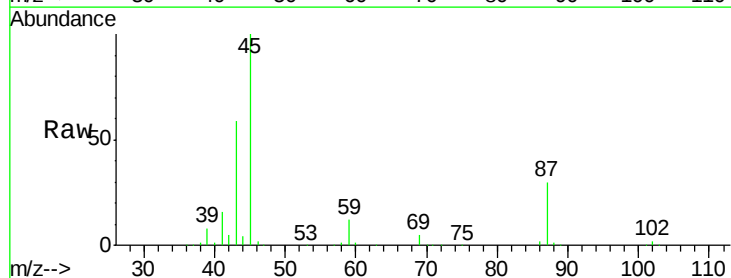
Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



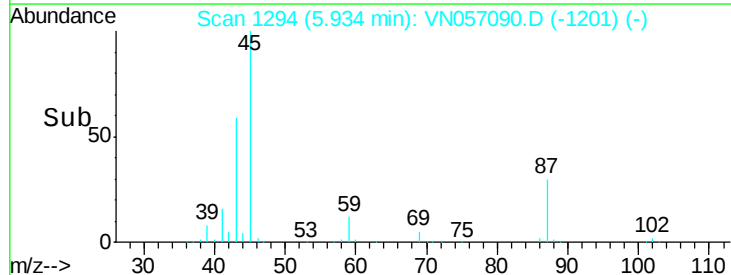
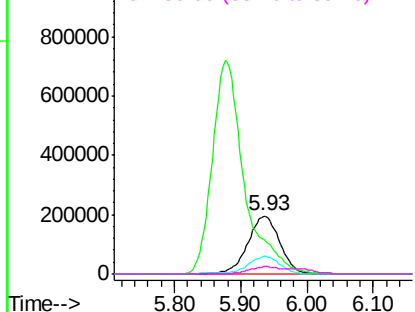
#22

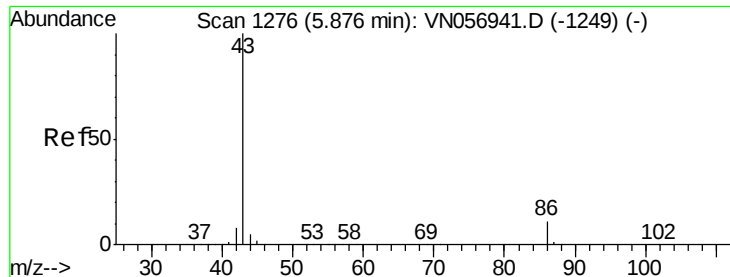
Diisopropyl ether
Concen: 45.797 ug/l
RT: 5.93 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.5	44.7	67.1
87	30.3	23.0	34.6
59	12.0	9.8	14.8



Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





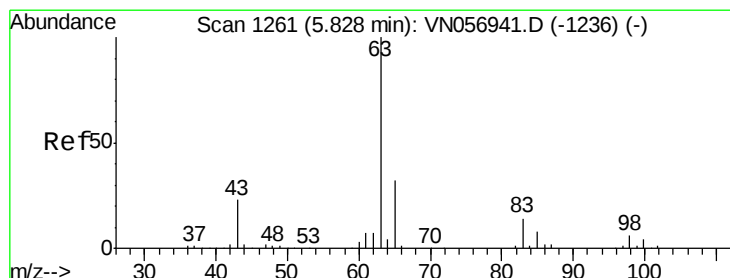
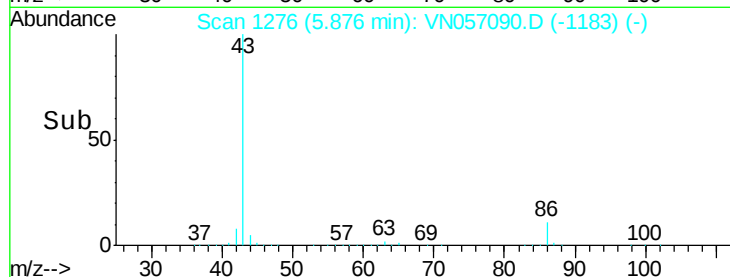
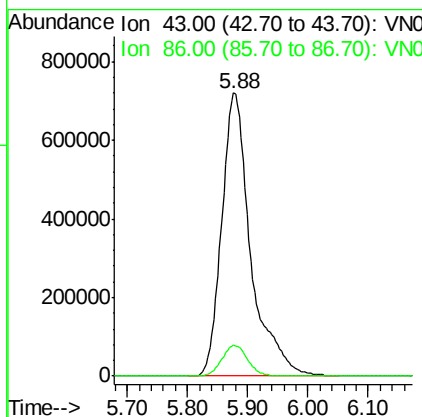
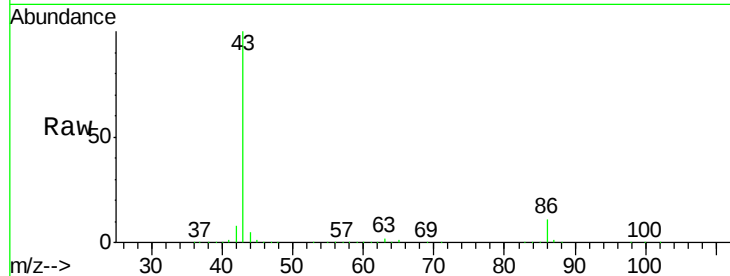
#23
 Vinyl Acetate
 Concen: 242.345 ug/l
 RT: 5.88 min Scan# 1276
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 2407557
 Ion Ratio Lower Upper
 43 100
 86 10.9 8.5 12.7

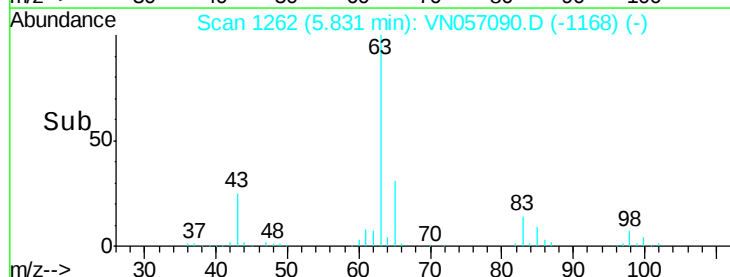
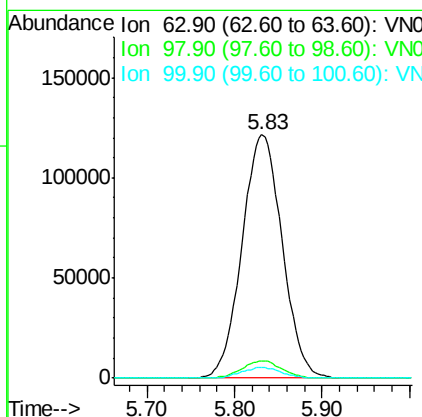
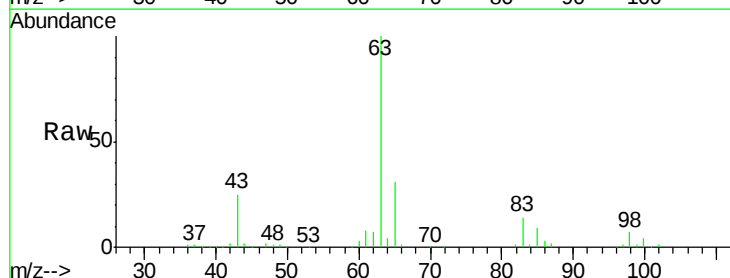
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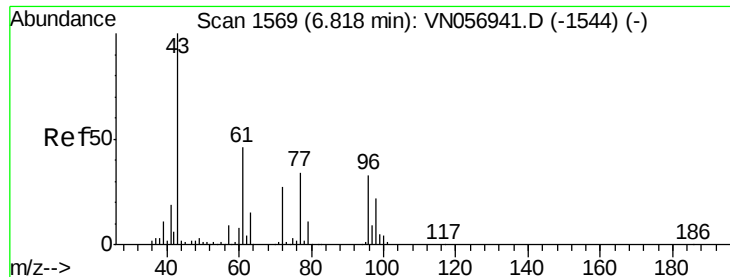
MMdadoda
 8/9/2019 12:51:32 AM



#24
 1,1-Dichloroethane
 Concen: 45.755 ug/l
 RT: 5.83 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion: 63 Resp: 387073
 Ion Ratio Lower Upper
 63 100
 98 7.2 3.2 9.6
 100 4.3 2.1 6.3





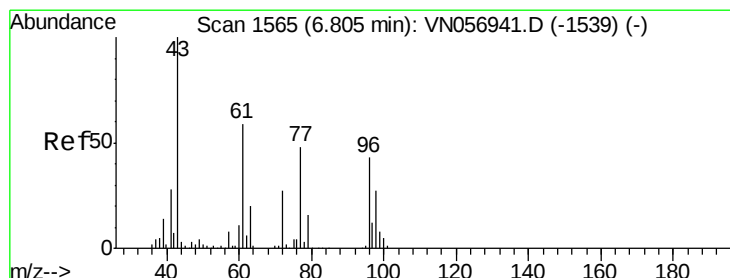
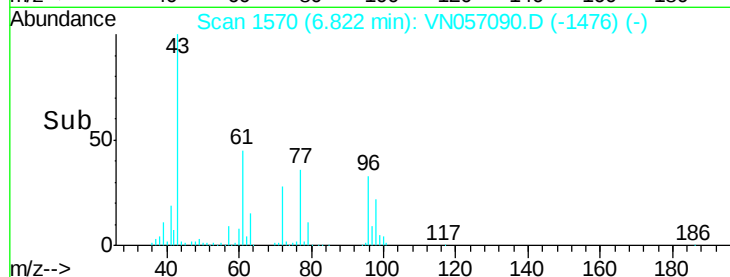
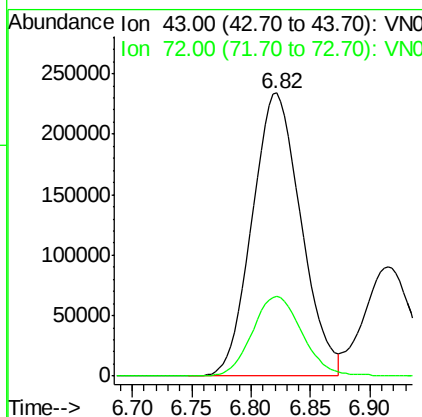
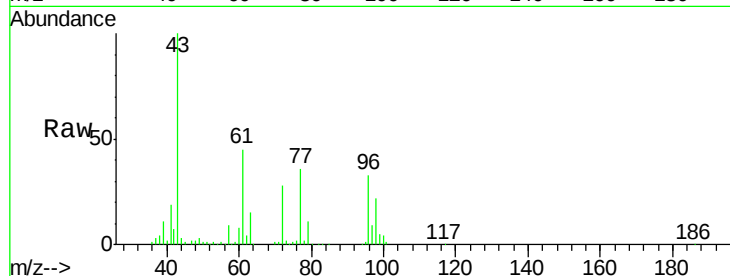
#25
2-Butanone
Concen: 259.678 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	43	Resp	664610
Ion Ratio	100	Lower	Upper
72	28.2	21.5	32.3

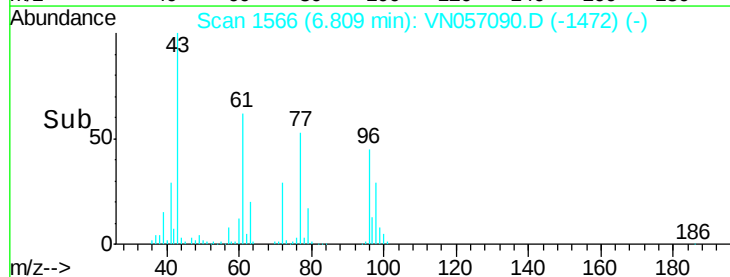
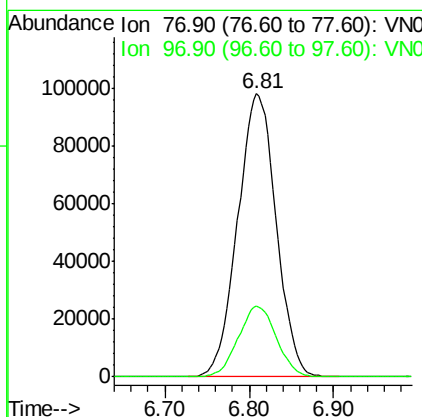
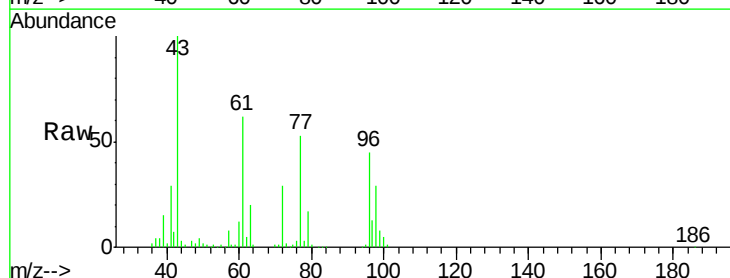
Manual Integrations
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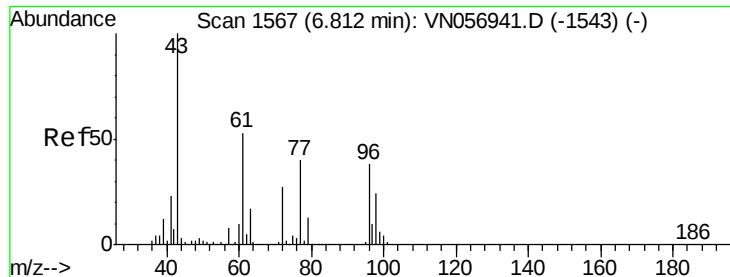
MMdadoda
8/9/2019 12:51:32 AM



#26
2,2-Dichloropropane
Concen: 48.279 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	77	Resp	310558
Ion Ratio	100	Lower	Upper
97	24.7	12.2	36.6





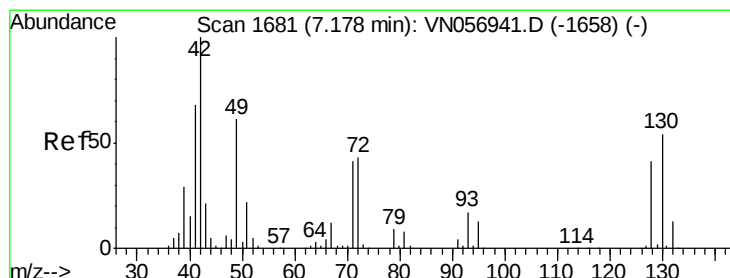
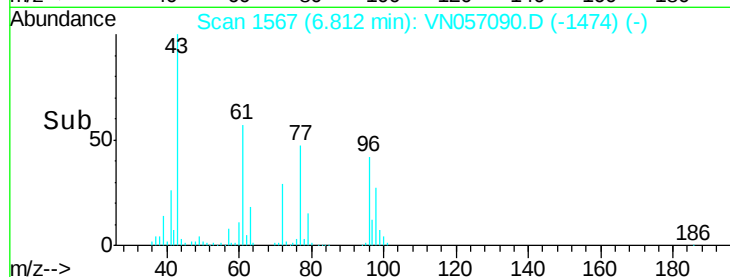
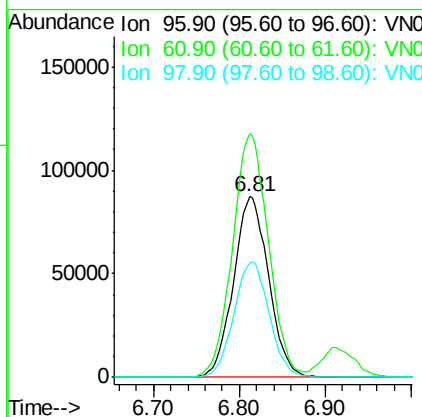
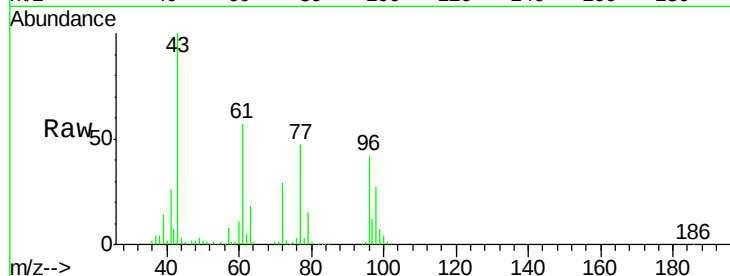
#27
 cis-1,2-Dichloroethene
 Concen: 46.100 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	247733		
61	137.9	0.0	277.2	
98	64.4	0.0	128.4	

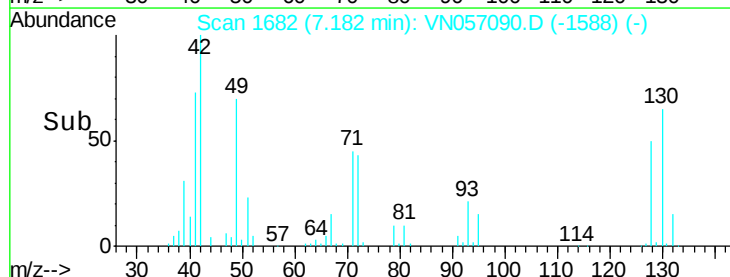
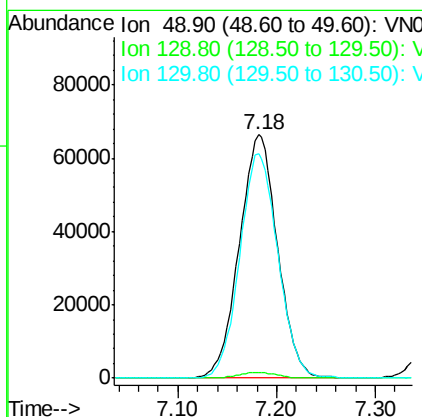
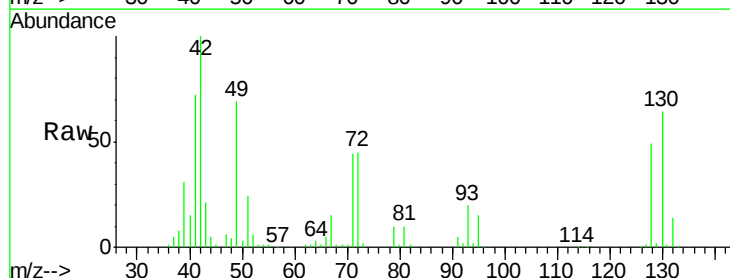
Manual Integrations
 APPROVED

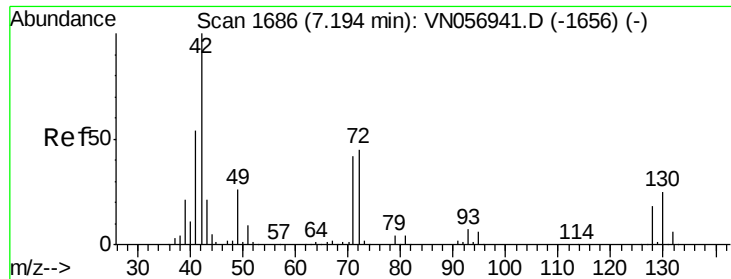
MMDadoda
 8/9/2019 12:51:32 AM



#28
 Bromochloromethane
 Concen: 44.703 ug/l
 RT: 7.18 min Scan# 1682
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	177757		
129	2.3	0.0	4.6	
130	92.2	69.0	103.4	





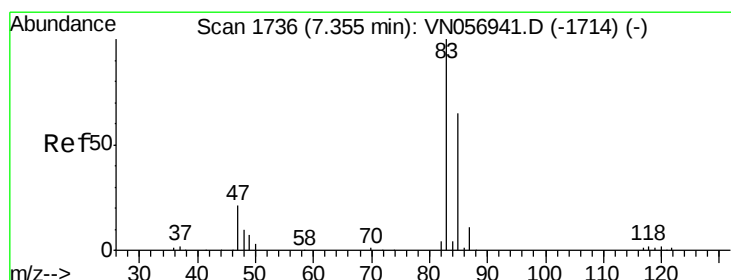
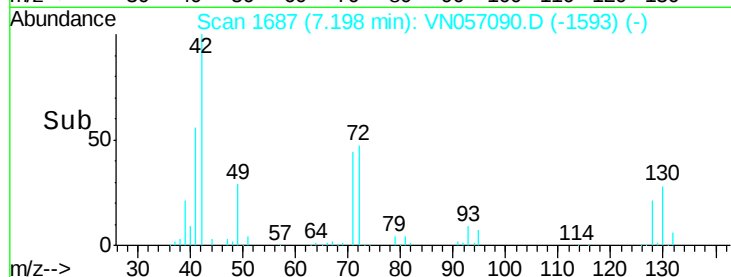
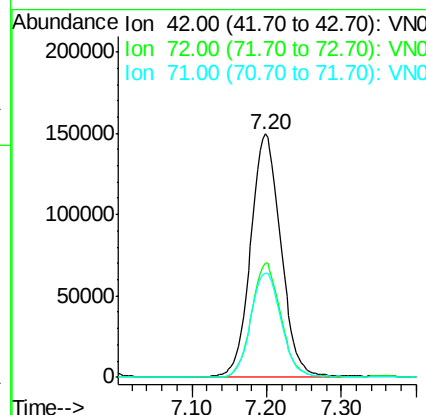
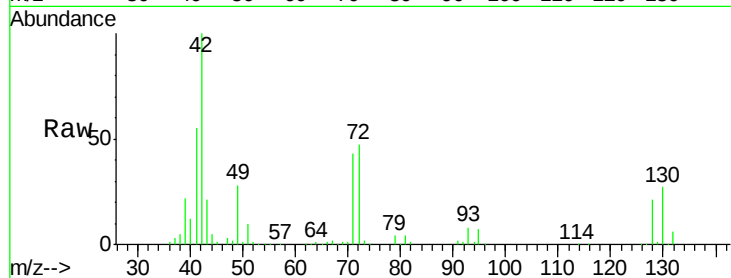
#29
Tetrahydrofuran
Concen: 250.903 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	35.6	53.4
71	43.3	33.5	50.3

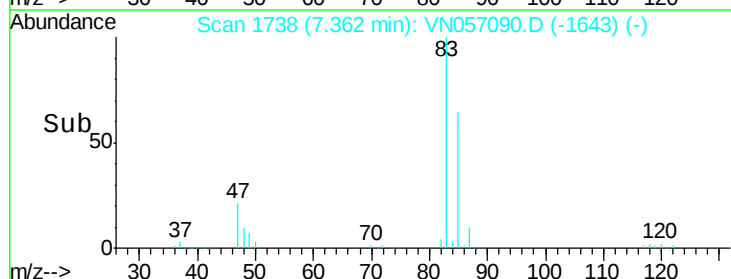
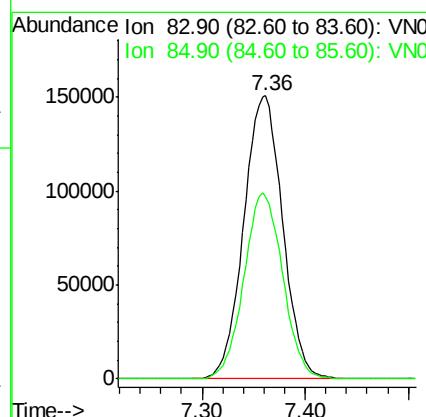
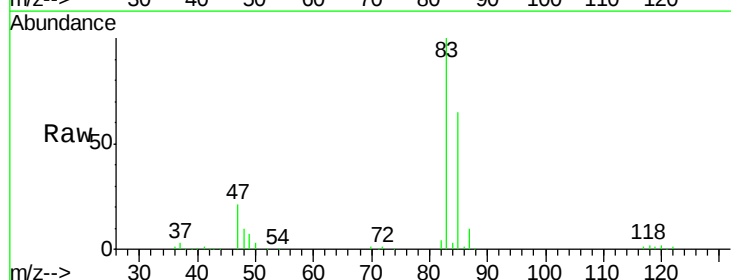
Manual Integrations
APPROVED

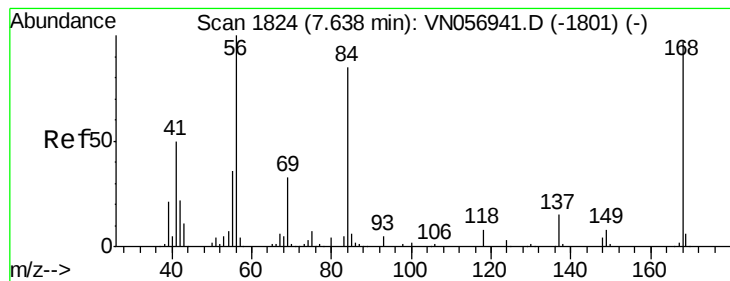
MMdadoda
8/9/2019 12:51:32 AM



#30
Chloroform
Concen: 45.629 ug/l
RT: 7.36 min Scan# 1738
Delta R.T. 0.01 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.2	78.2





#31

Cyclohexane

Concen: 40.892 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

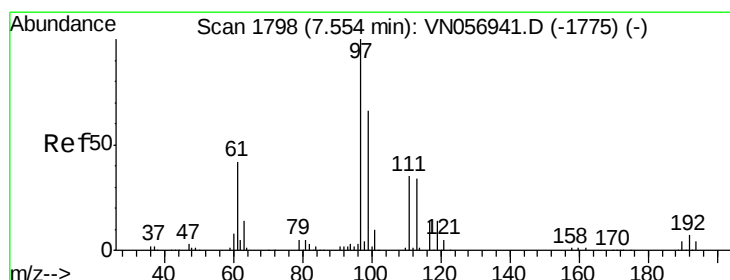
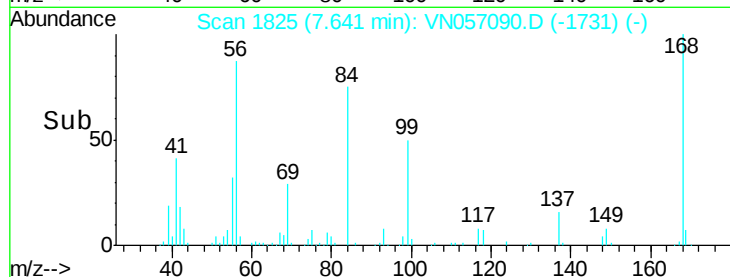
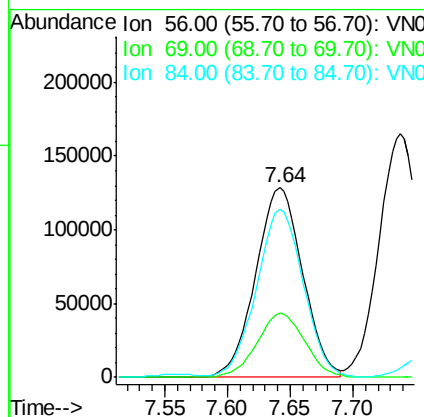
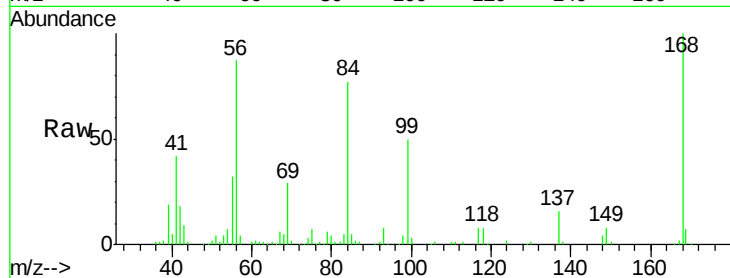
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	334759
Ion	Ratio	Lower	Upper
56	100		
69	33.9	26.2	39.2
84	87.4	68.2	102.2

Manual Integrations
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MMdadoda
8/9/2019 12:51:32 AM



#32

1,1,1-Trichloroethane

Concen: 48.165 ug/l

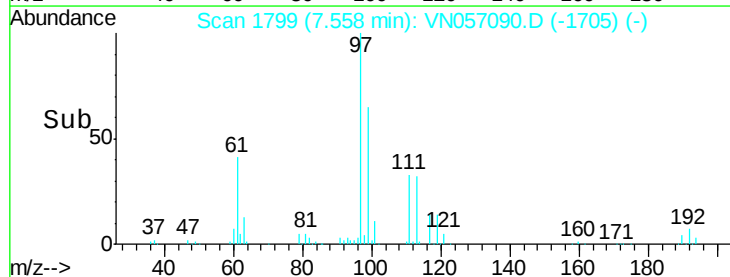
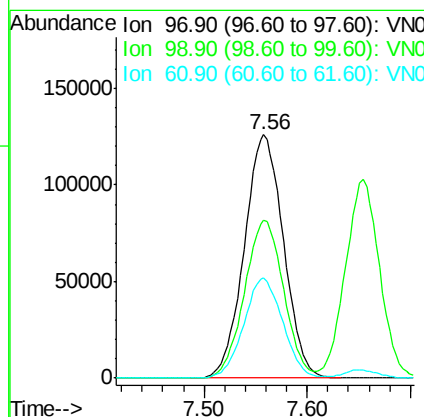
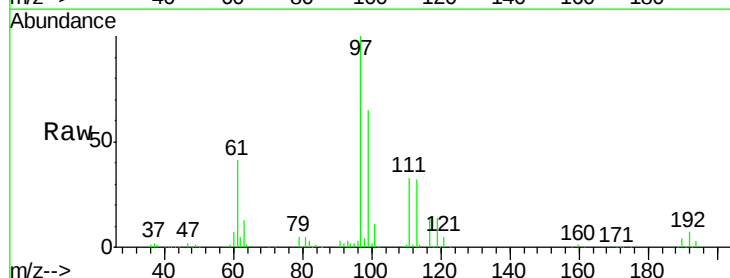
RT: 7.56 min Scan# 1799

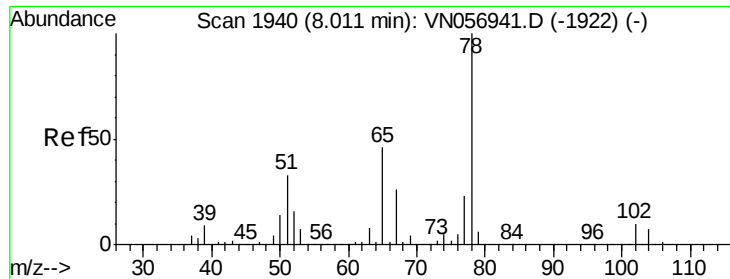
Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Tgt Ion:	97	Resp:	332406
Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.3	78.5
61	40.8	33.9	50.9





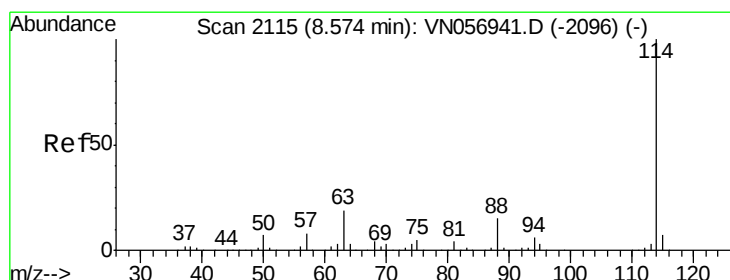
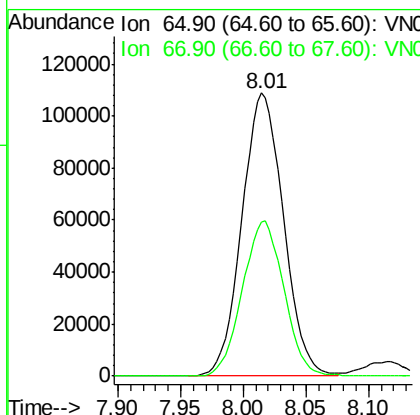
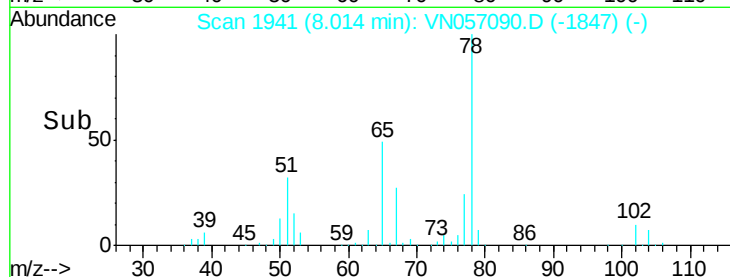
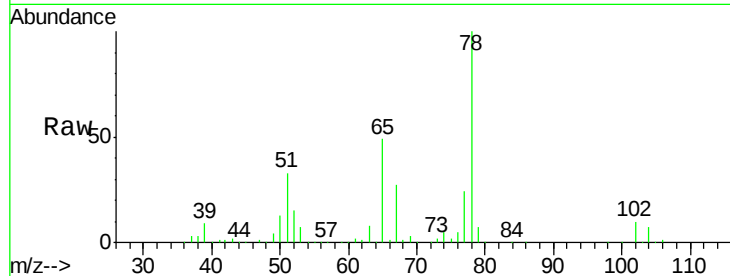
#33
 1,2-Dichloroethane-d4
 Concen: 50.474 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	251467		
67	54.6	0.0	112.0	

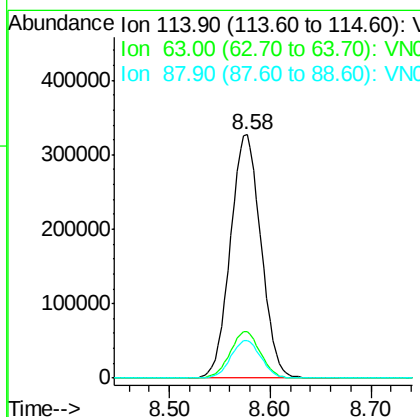
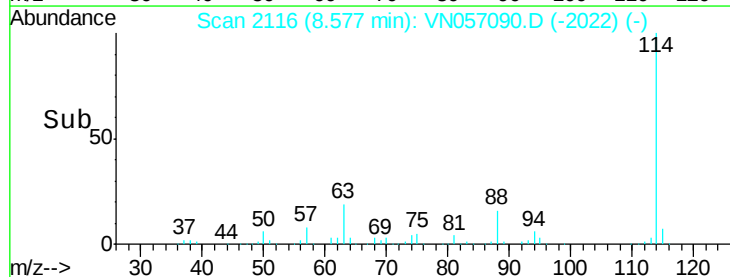
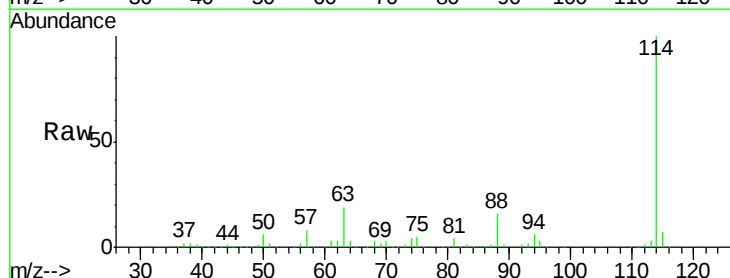
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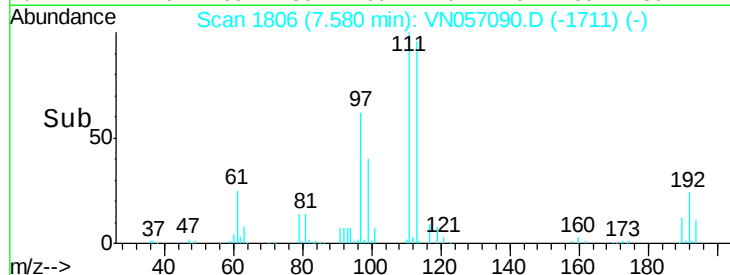
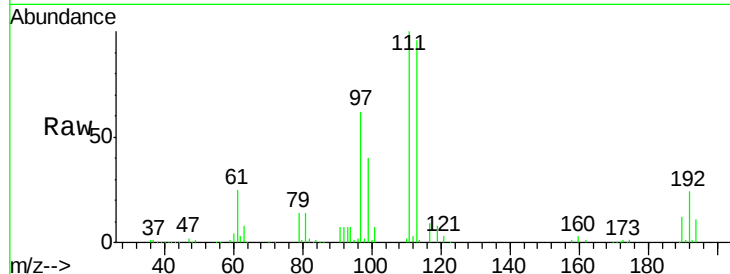
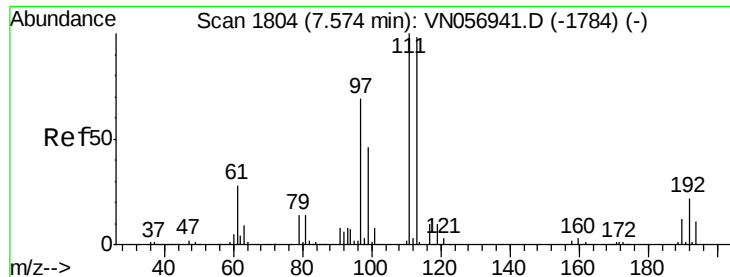
MMDadoda
 8/9/2019 12:51:32 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	690202		
63	18.9	0.0	38.0	
88	15.6	0.0	30.0	





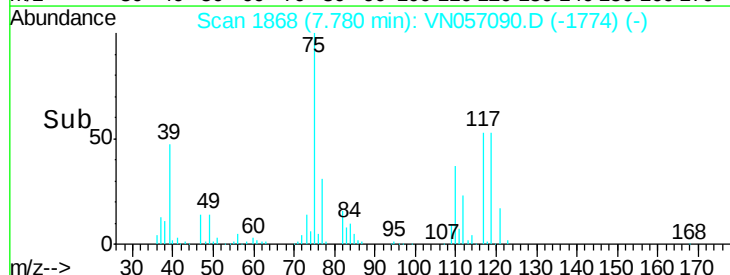
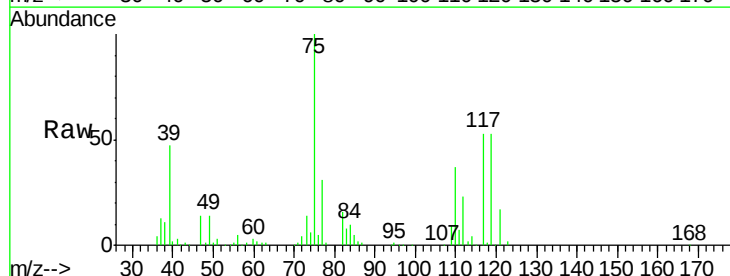
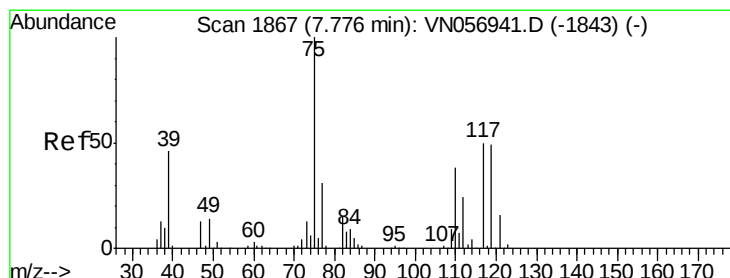
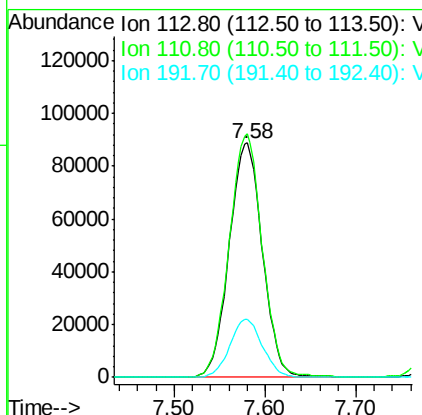
#35
Dibromofluoromethane
Concen: 50.915 ug/l
RT: 7.58 min Scan# 1806
Delta R.T. 0.01 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.7	82.0	123.0	
192	24.4	18.4	27.6	

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

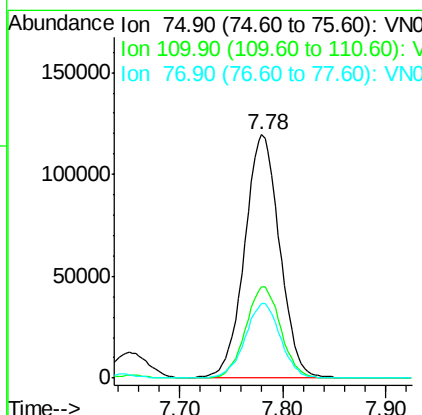
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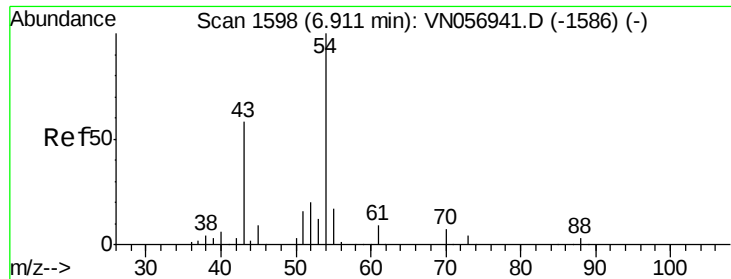
MMdadoda
8/9/2019 12:51:32 AM



#36
1,1-Dichloropropene
Concen: 46.278 ug/l
RT: 7.78 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.7	18.6	55.8	
77	31.2	25.2	37.8	





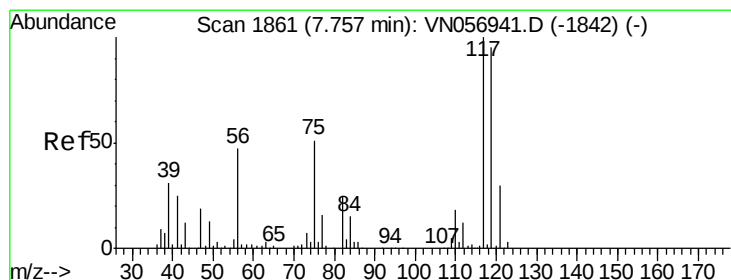
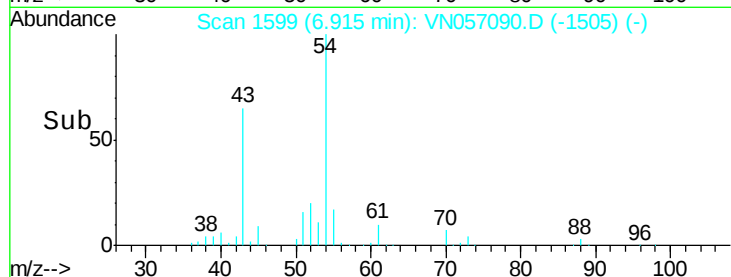
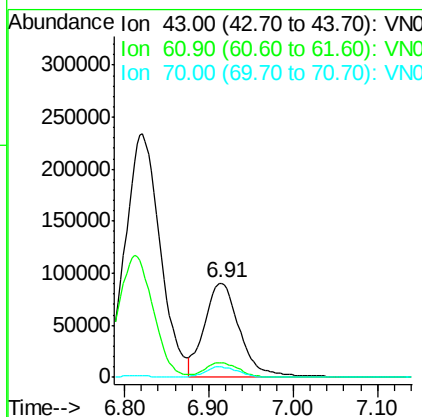
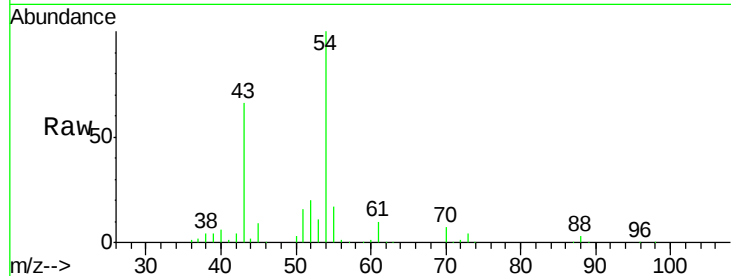
#37
Ethyl Acetate
Concen: 53.199 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	43	Resp	258771
Ion Ratio	Lower	Upper	
43	100		
61	14.9	11.8	17.6
70	11.0	8.5	12.7

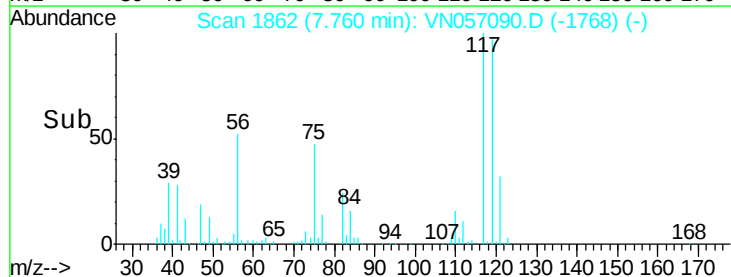
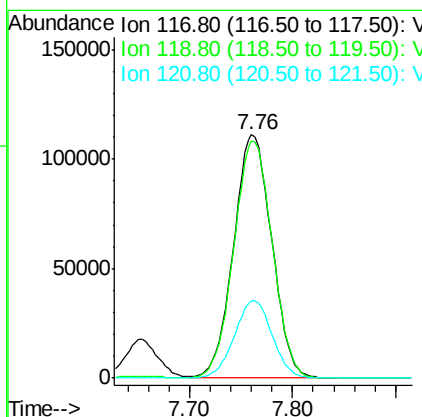
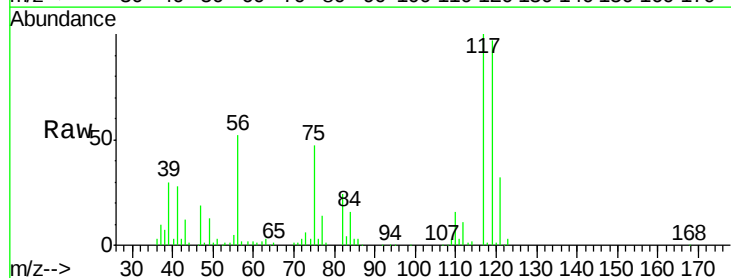
Manual Integrations
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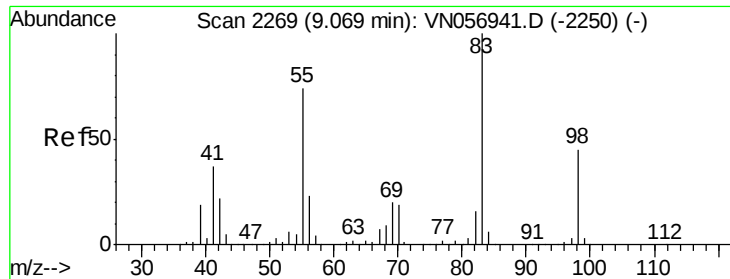
MMdadoda
8/9/2019 12:51:32 AM



#38
Carbon Tetrachloride
Concen: 49.816 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	117	Resp	286182
Ion Ratio	Lower	Upper	
117	100		
119	97.3	75.3	112.9
121	31.5	24.2	36.4





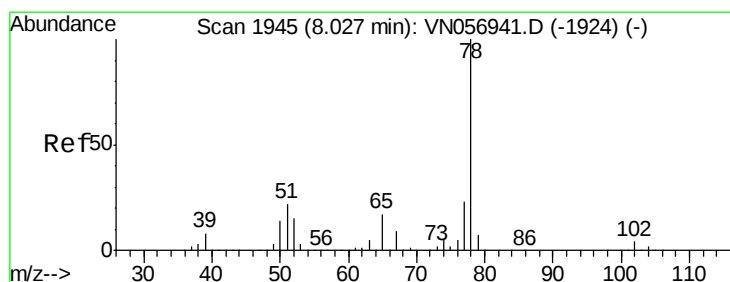
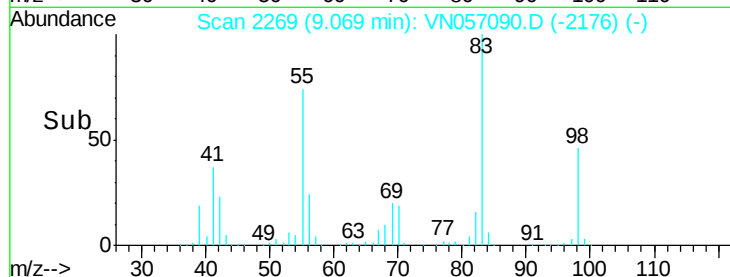
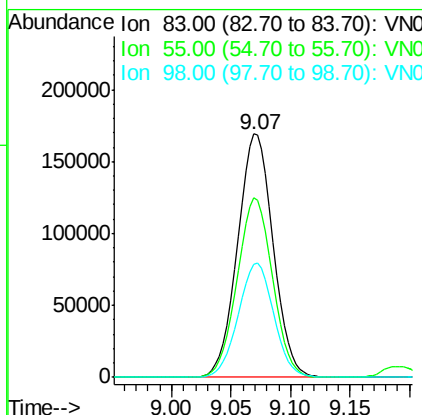
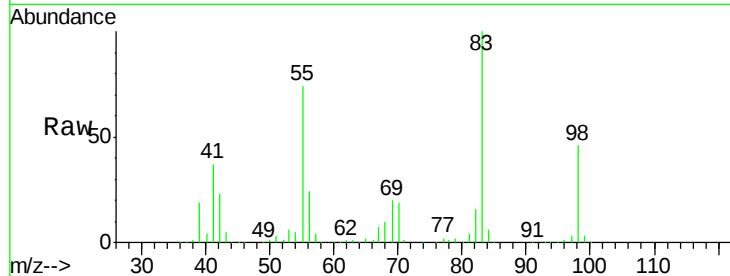
#39
Methvlcvclohexane
Concen: 45.232 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	351097
Ion Ratio	100	Lower	Upper
83	100		
55	73.8	59.0	88.6
98	46.5	36.2	54.4

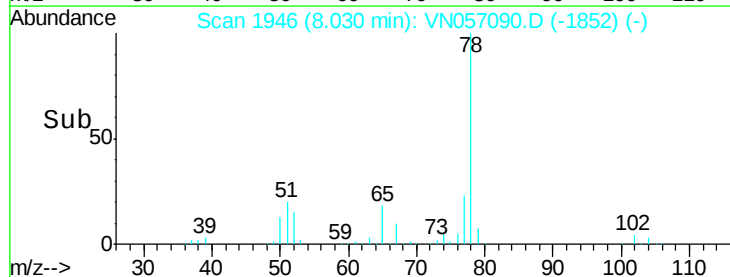
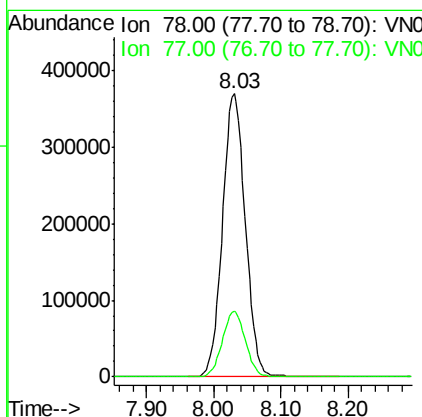
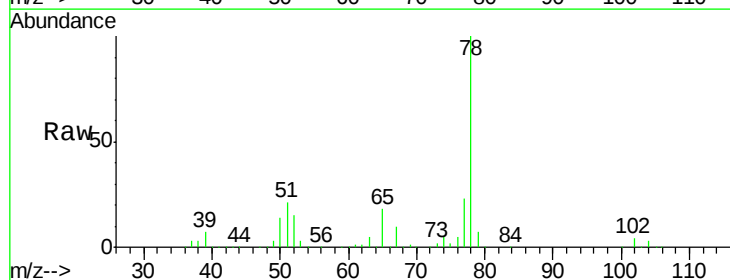
Manual Integrations
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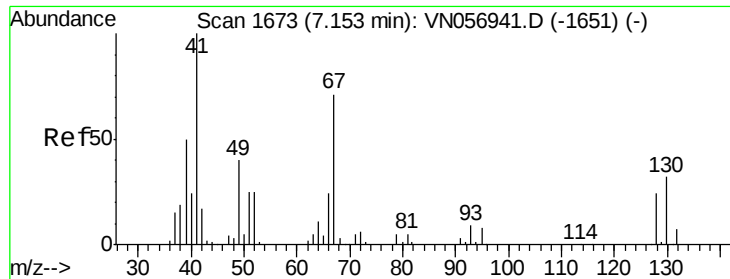
MMDadoda
8/9/2019 12:51:32 AM



#40
Benzene
Concen: 46.718 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	78	Resp	873912
Ion Ratio	100	Lower	Upper
78	100		
77	23.5	18.3	27.5





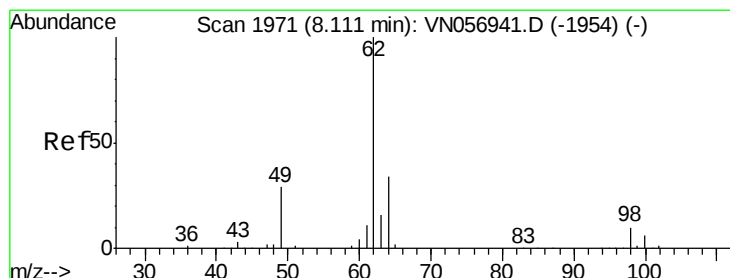
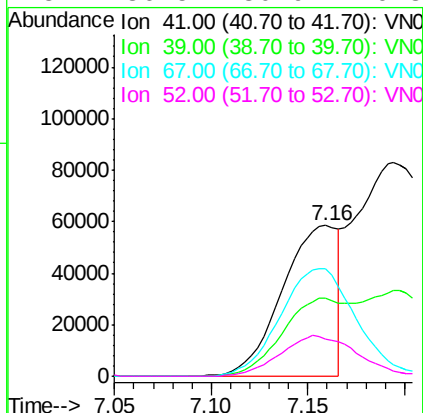
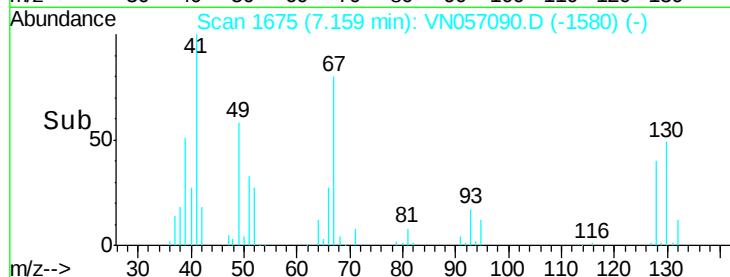
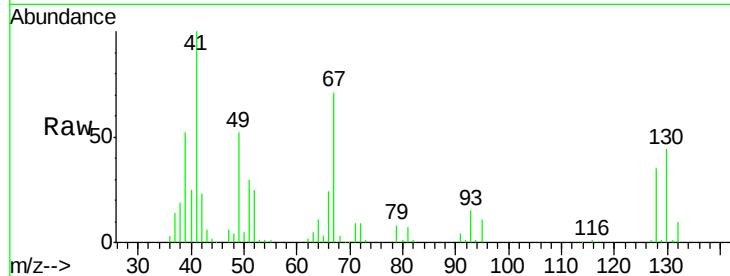
#41
Methacrylonitrile
Concen: 52.041 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. 0.01 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	55.9	48.9	73.3		
67	98.1	83.4	125.0		
52	36.5	30.9	46.3		

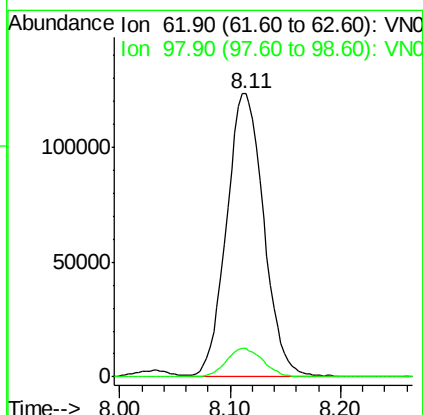
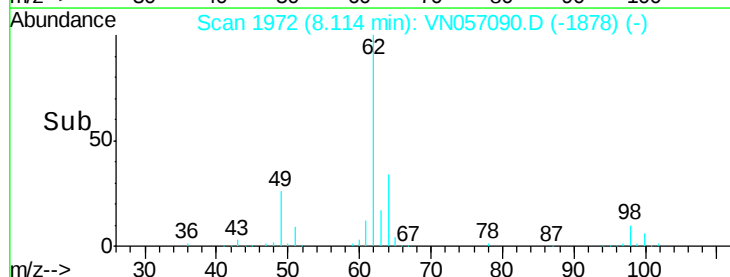
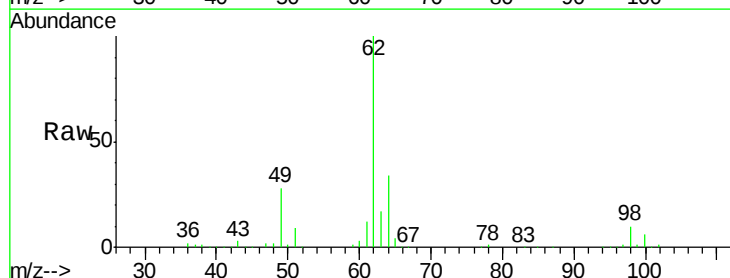
Manual Integrations
APPROVED

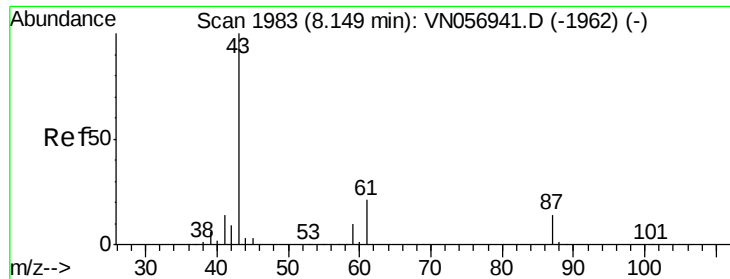
MMDadoda
8/9/2019 12:51:32 AM



#42
1,2-Dichloroethane
Concen: 48.938 ug/l
RT: 8.11 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	10.0	0.0	20.6		





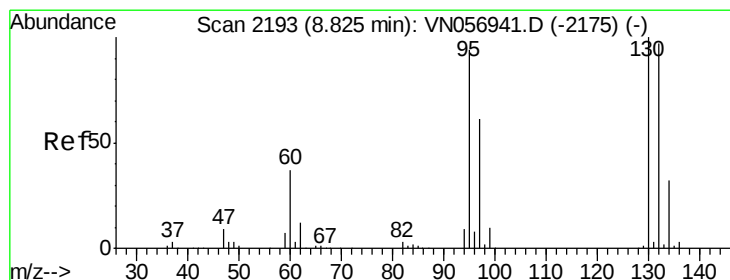
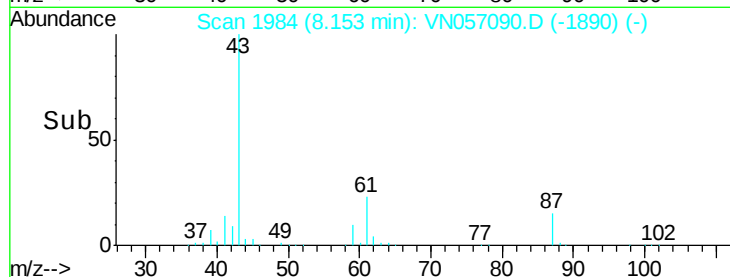
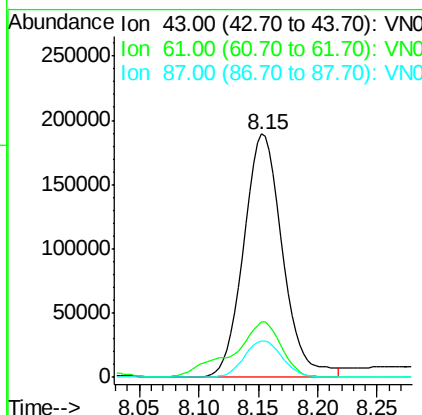
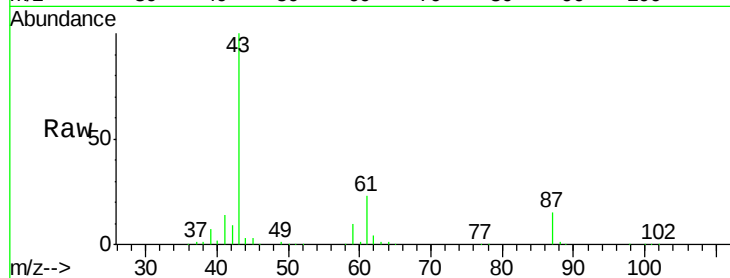
#43
Isopropyl Acetate
Concen: 53.182 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.4	23.0	34.6
87	14.7	11.7	17.5

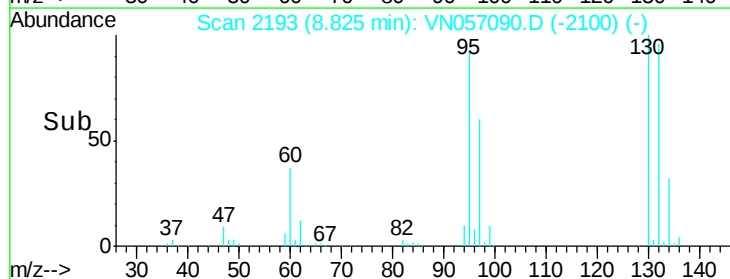
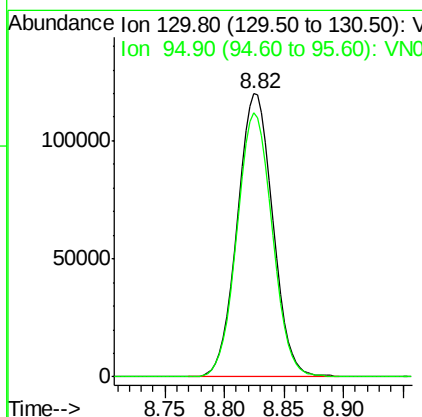
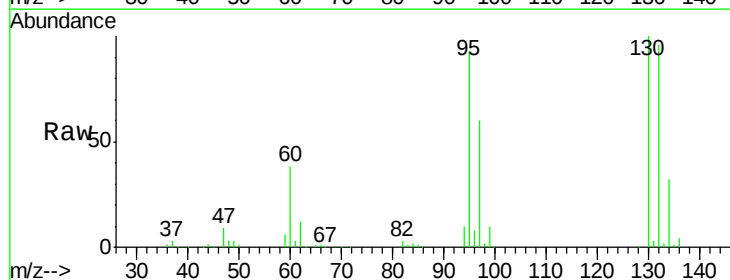
Manual Integrations
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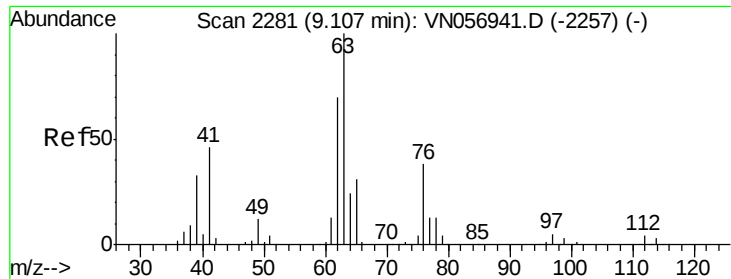
MMDadoda
8/9/2019 12:51:32 AM



#44
Trichloroethene
Concen: 48.180 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.3	0.0	189.0





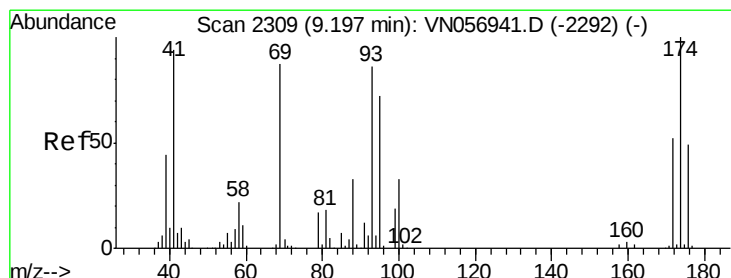
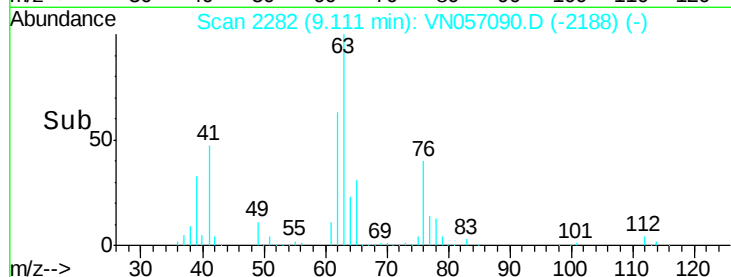
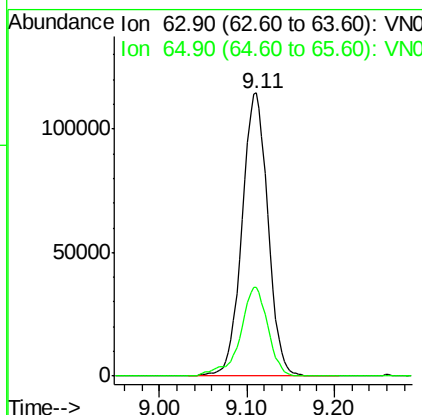
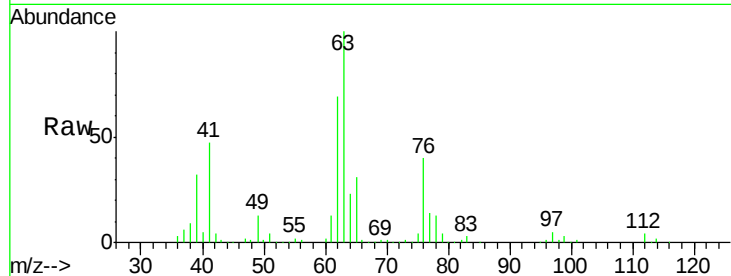
#45
 1,2-Dichloropropane
 Concen: 47.208 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.8	37.2

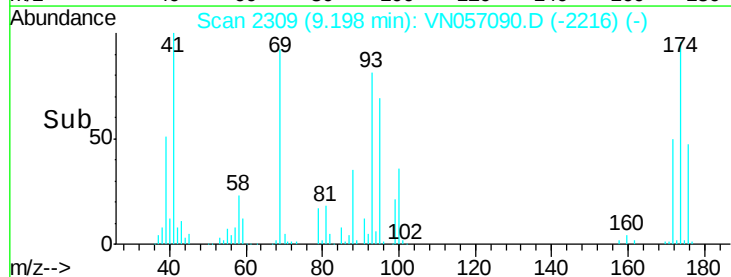
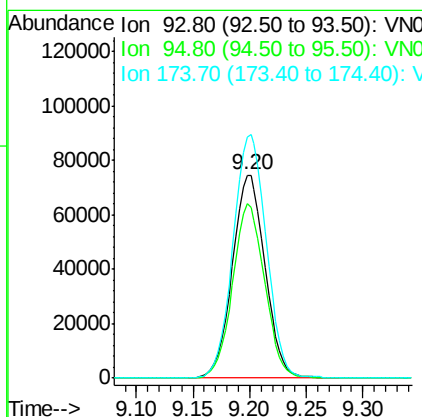
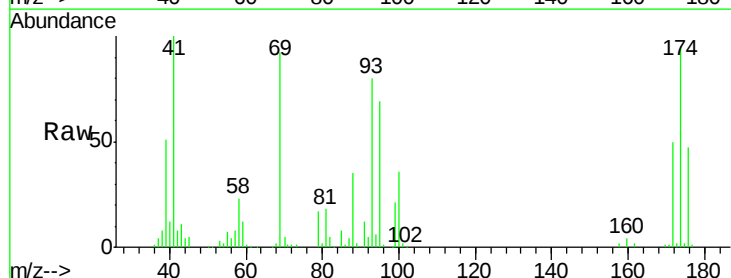
Manual Integrations
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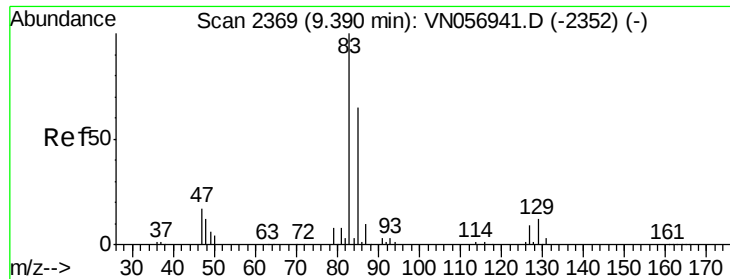
MMdadoda
 8/9/2019 12:51:32 AM



#46
 Dibromomethane
 Concen: 49.770 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.1	67.0	100.6
174	121.3	92.7	139.1





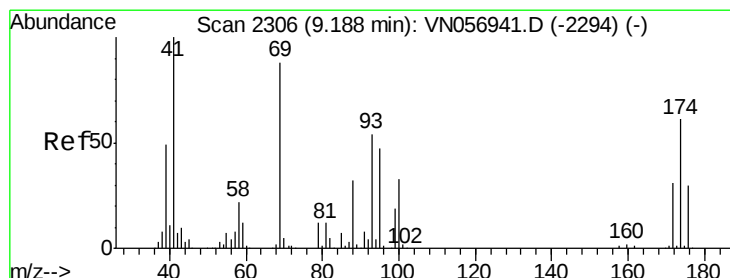
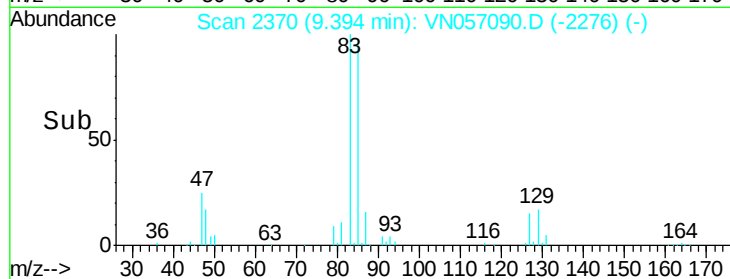
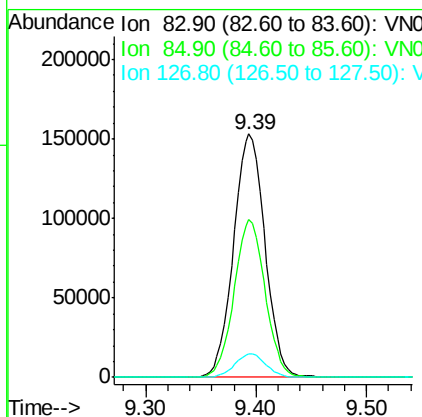
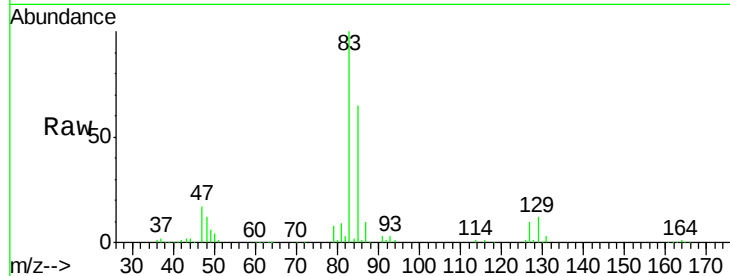
#47
Bromodichloromethane
Concen: 51.008 ug/l
RT: 9.39 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:	83	Resp:	302610
Ion Ratio	Lower	Upper	
83	100		
85	64.8	51.6	77.4
127	9.7	7.3	10.9

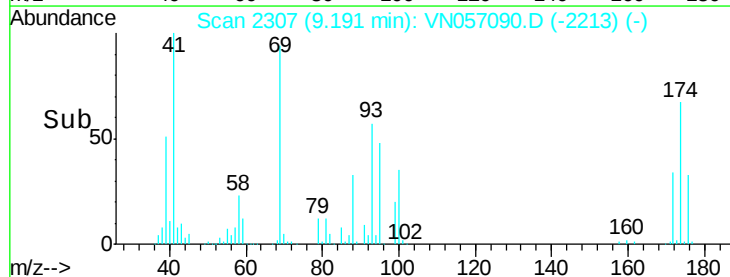
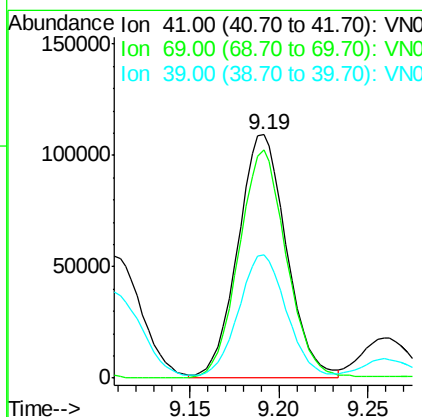
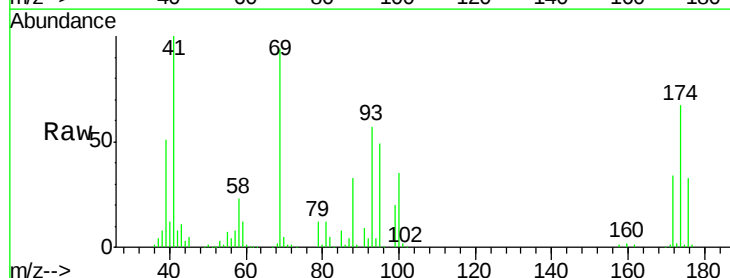
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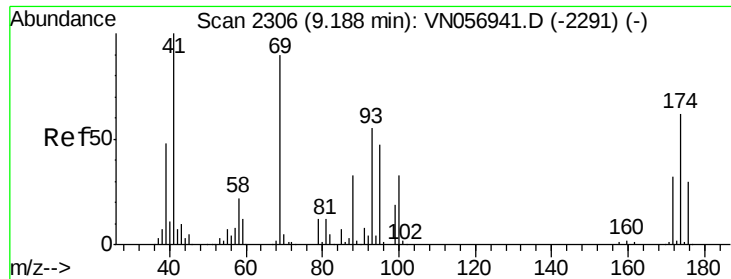
MMdadoda
8/9/2019 12:51:32 AM



#48
Methyl methacrylate
Concen: 53.380 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion:	41	Resp:	207193
Ion Ratio	Lower	Upper	
41	100		
69	92.8	73.4	110.0
39	50.5	39.9	59.9





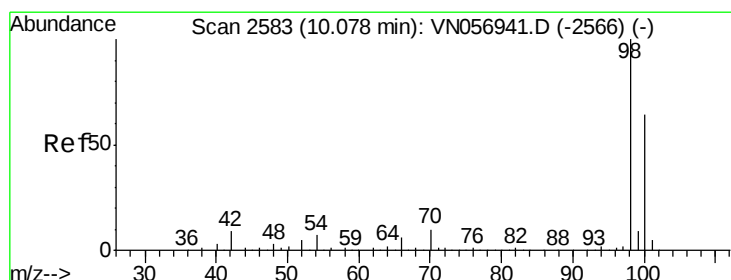
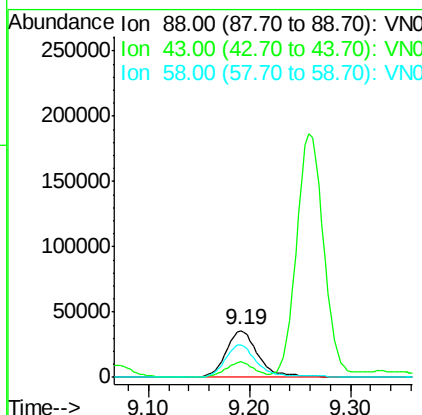
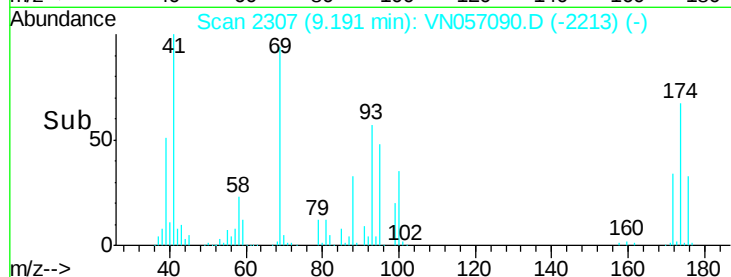
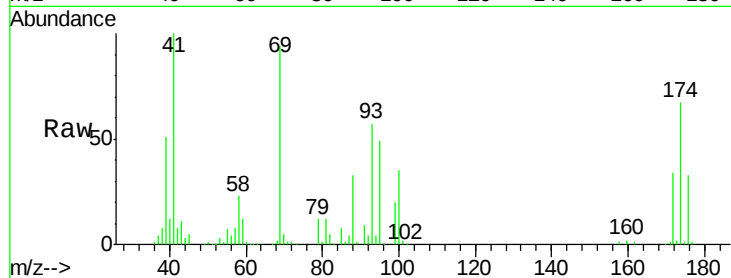
#49
1,4-Dioxane
Concen: 1000.927 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.2	22.2	33.2
58	66.8	54.1	81.1

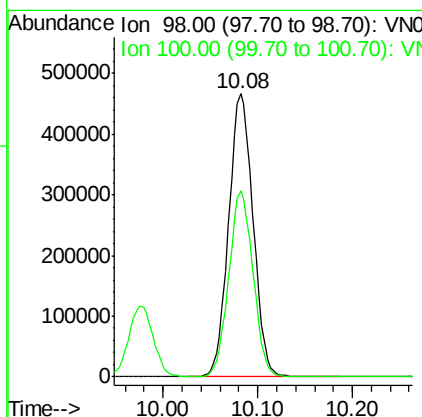
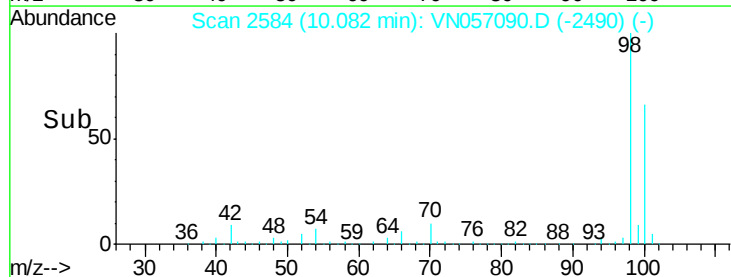
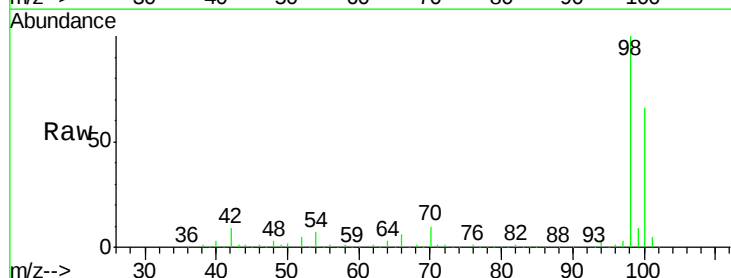
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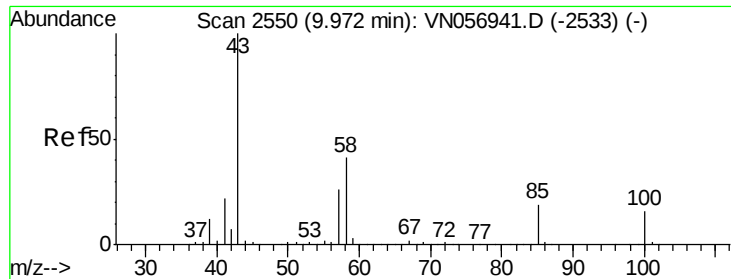
MMdadoda
8/9/2019 12:51:32 AM



#50
Toluene-d8
Concen: 49.712 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.3	76.9





#51

4-Methyl-2-Pentanone

Concen: 269.695 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1288295

Ion Ratio Lower Upper

43 100

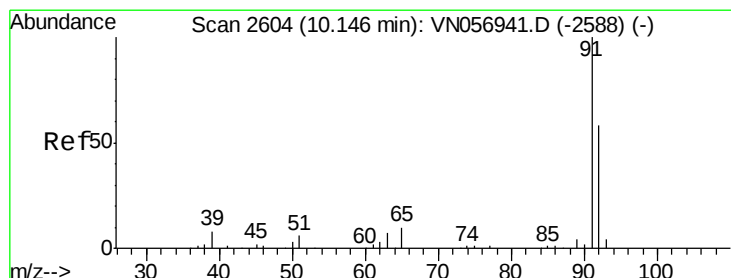
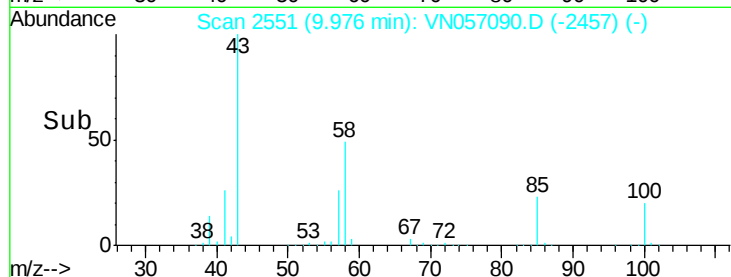
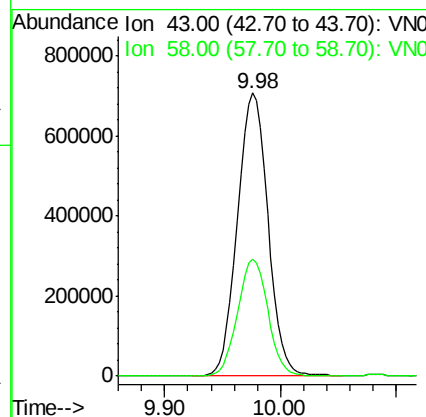
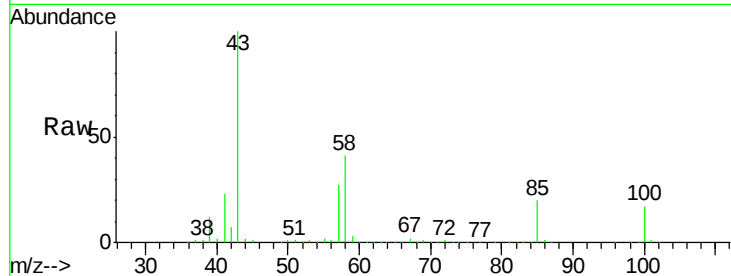
58 41.1 33.1 49.7

Manual Integrations

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MMdadoda

8/9/2019 12:51:32 AM



#52

Toluene

Concen: 48.812 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN057090.D

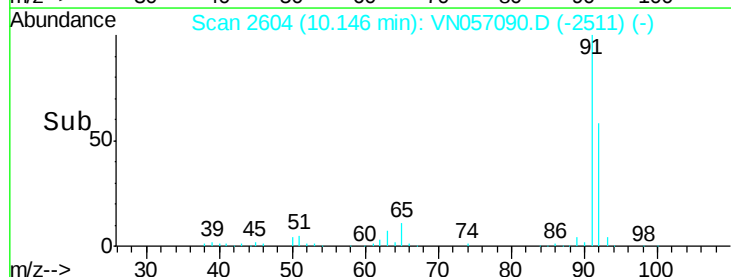
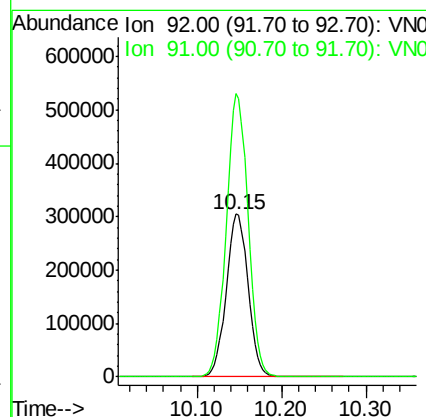
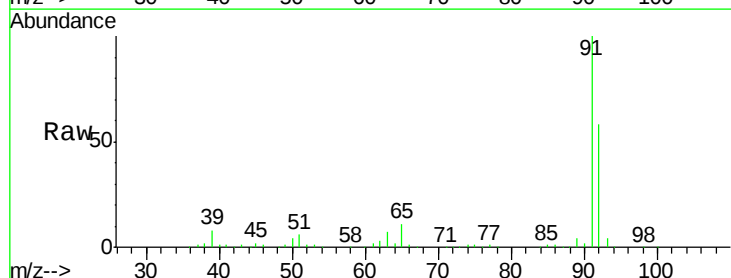
Acq: 6 Aug 2019 9:51

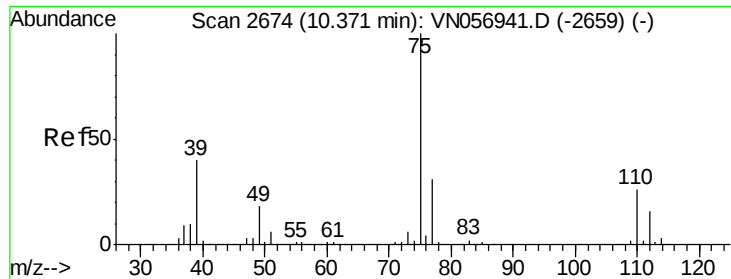
Tgt Ion: 92 Resp: 548582

Ion Ratio Lower Upper

92 100

91 173.3 138.0 207.0





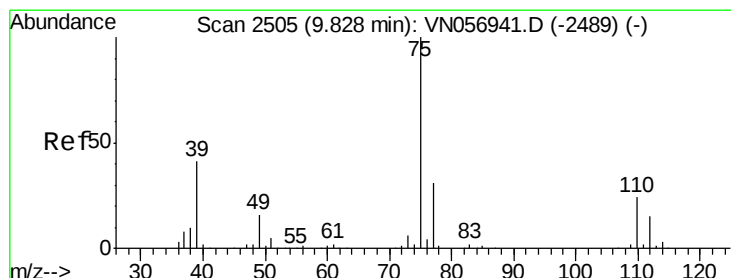
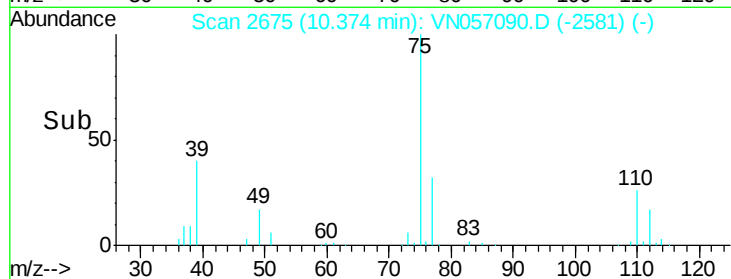
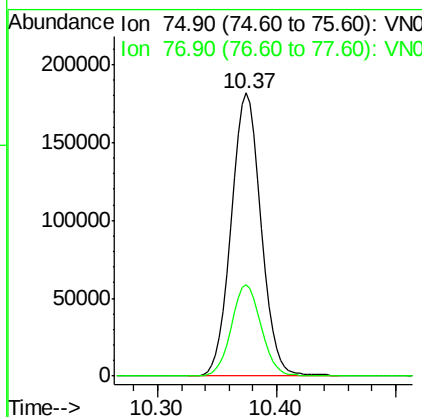
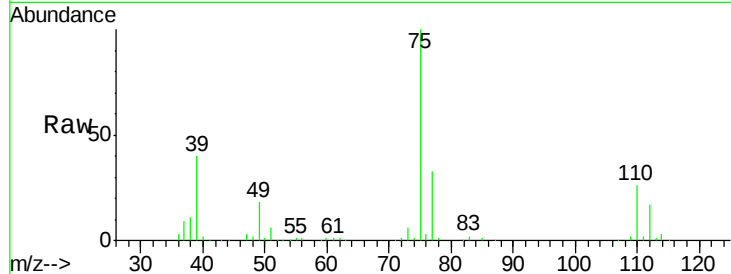
#53
 t-1,3-Dichloropropene
 Concen: 51.468 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 316855
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.1 37.7

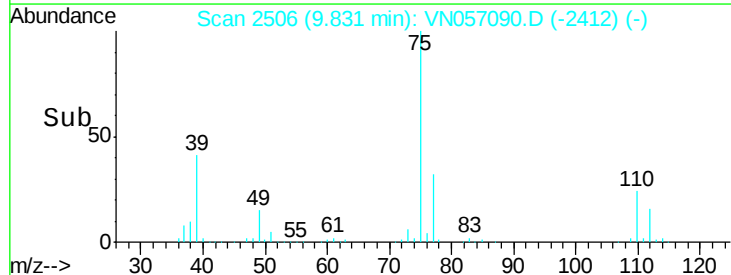
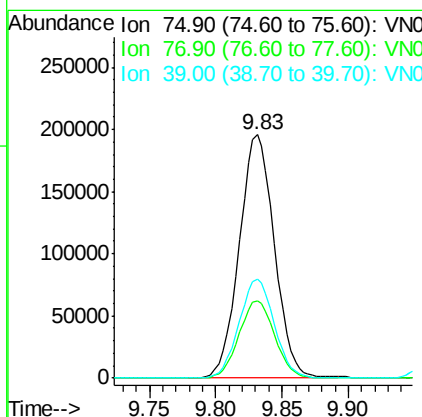
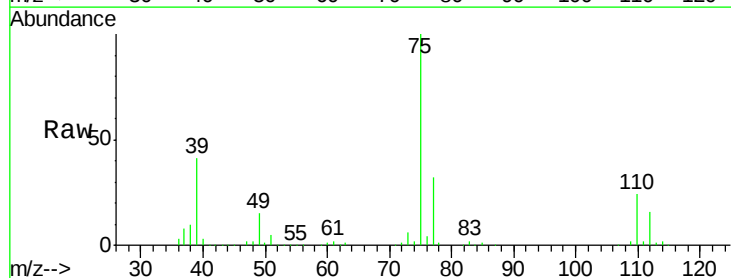
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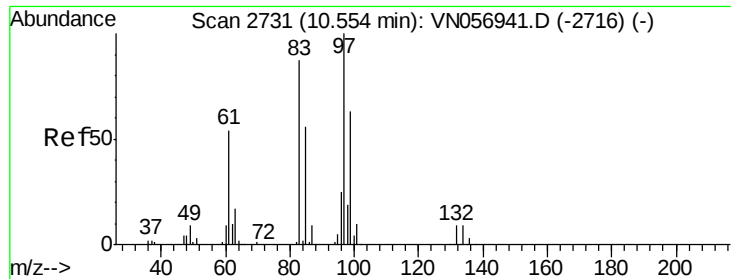
MMdadoda
 8/9/2019 12:51:32 AM



#54
 cis-1,3-Dichloropropene
 Concen: 50.340 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion: 75 Resp: 360335
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.0 37.6
 39 40.9 32.6 49.0





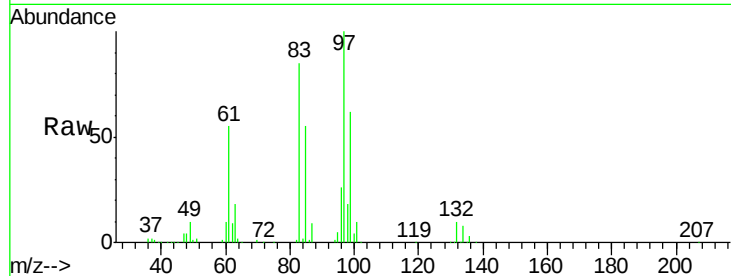
#55
 1,1,2-Trichloroethane
 Concen: 50.364 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		226996		
83	84.7	69.4	104.0		
85	54.6	44.7	67.1		
99	61.8	50.1	75.1		

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MMdadoda
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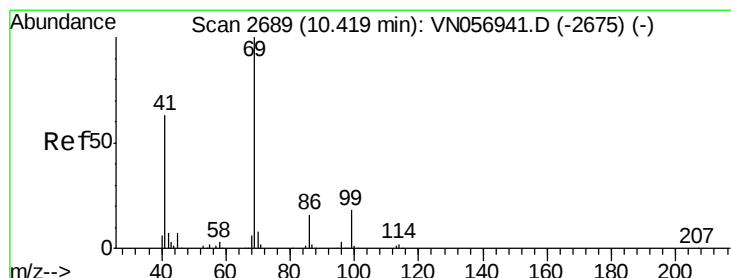
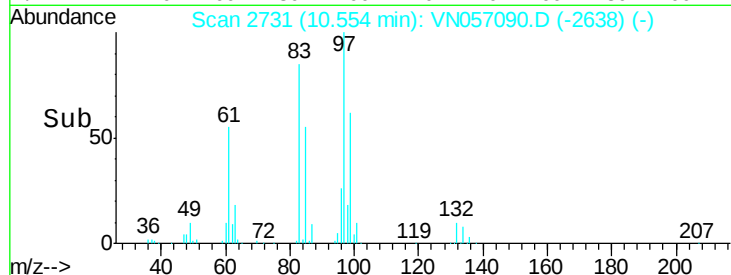
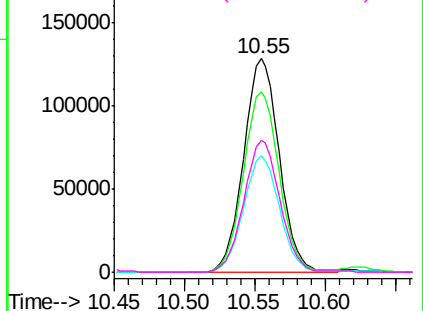


Abundance Ion 96.90 (96.60 to 97.60): VN056941.D (-2716) (-)

Ion 82.90 (82.60 to 83.60): VN056941.D (-2716) (-)

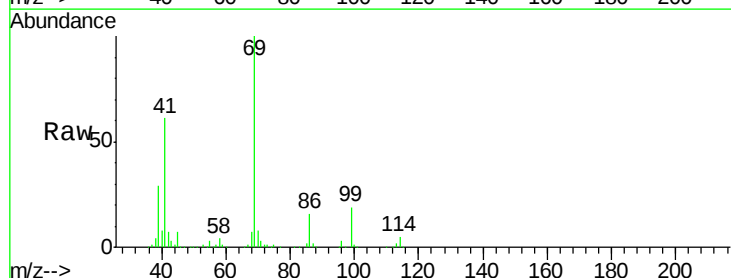
Ion 84.90 (84.60 to 85.60): VN056941.D (-2716) (-)

Ion 98.90 (98.60 to 99.60): VN056941.D (-2716) (-)



#56
 Ethyl methacrylate
 Concen: 47.734 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

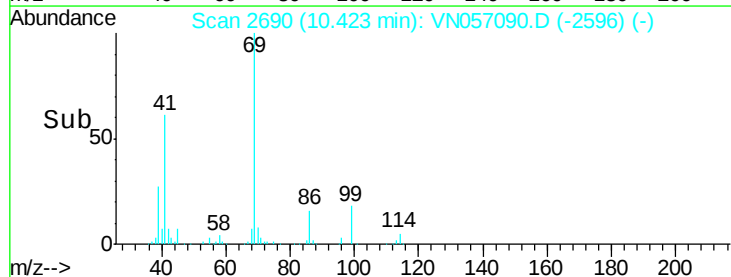
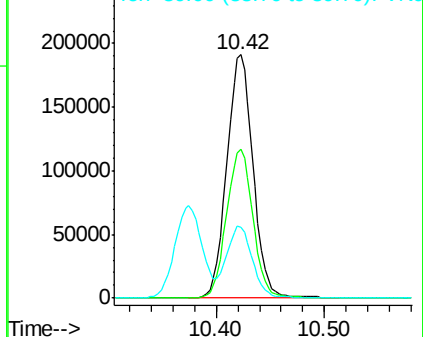
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		324343		
41	61.3	49.2	73.8		
39	28.7	23.1	34.7		

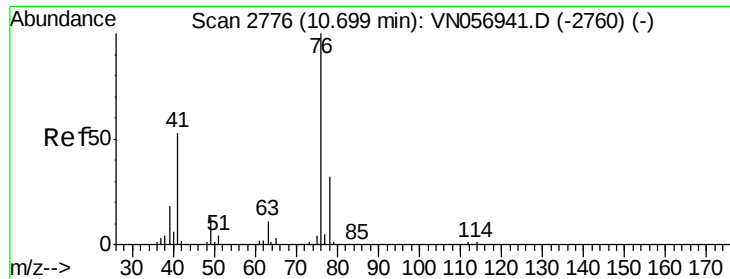


Abundance Ion 69.00 (68.70 to 69.70): VN056941.D (-2675) (-)

Ion 41.00 (40.70 to 41.70): VN056941.D (-2675) (-)

Ion 39.00 (38.70 to 39.70): VN056941.D (-2675) (-)





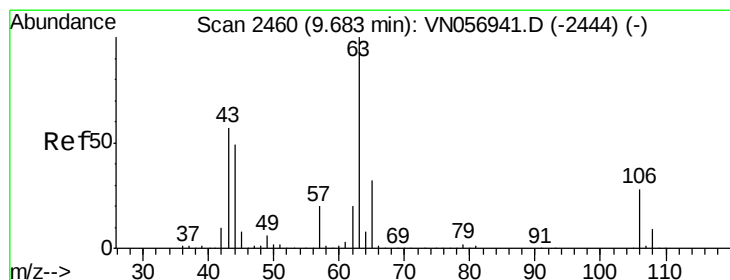
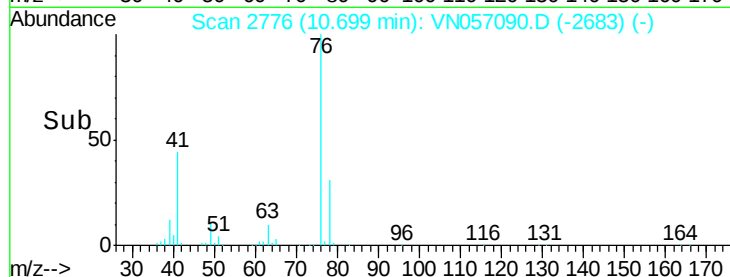
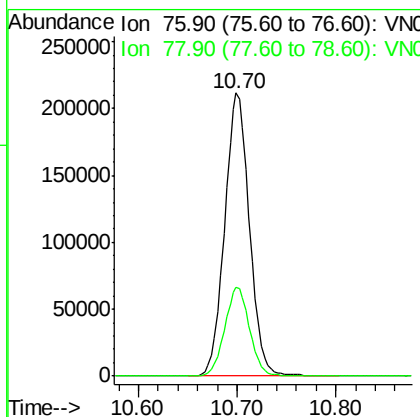
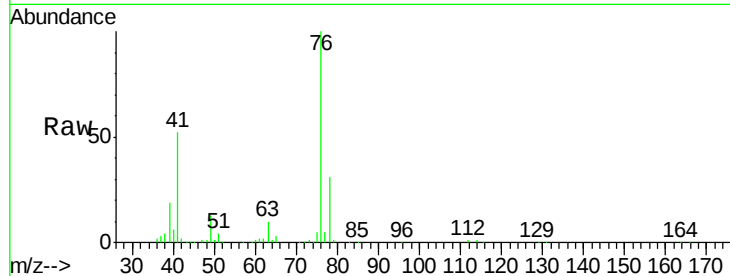
#57
 1,3-Dichloropropane
 Concen: 49.722 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 371614
 Ion Ratio Lower Upper
 76 100
 78 31.7 25.9 38.9

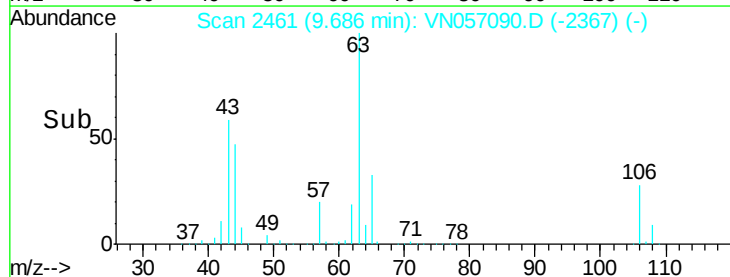
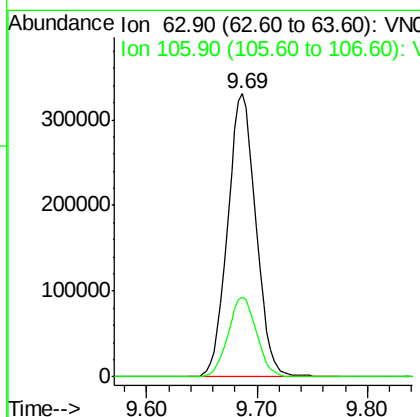
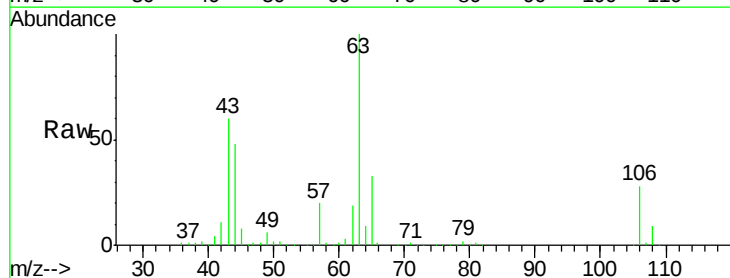
Manual Integrations
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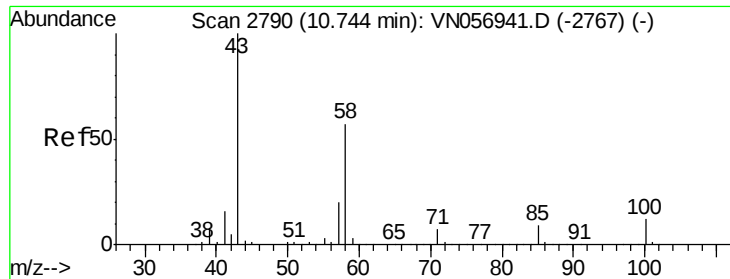
MMDadoda
 8/9/2019 12:51:32 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 217.246 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion: 63 Resp: 586755
 Ion Ratio Lower Upper
 63 100
 106 28.5 22.0 33.0





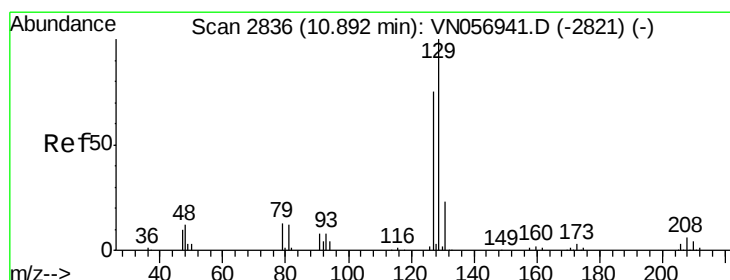
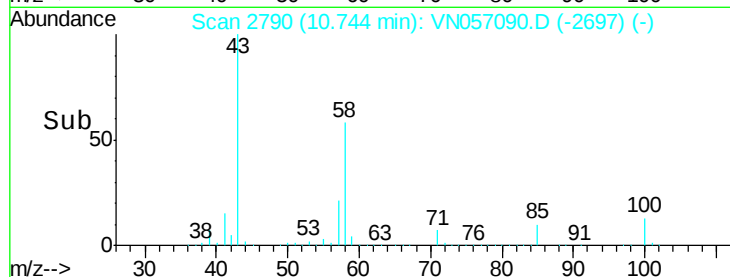
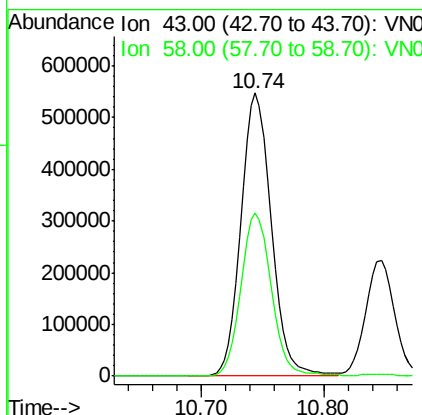
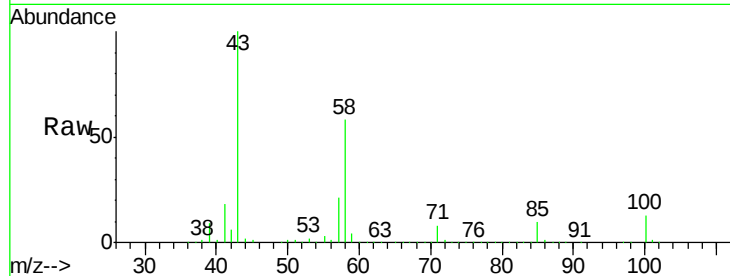
#59
2-Hexanone
Concen: 254.990 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	43	58	Ratio	Lower	Upper
938203	100	57.9		28.5	85.5

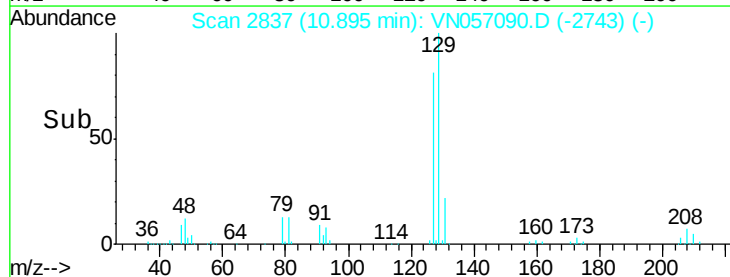
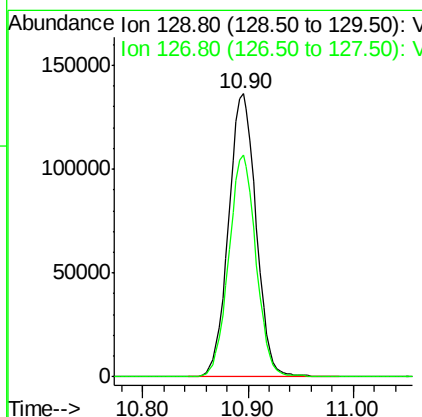
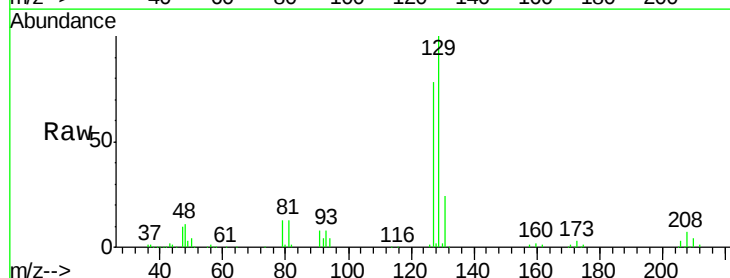
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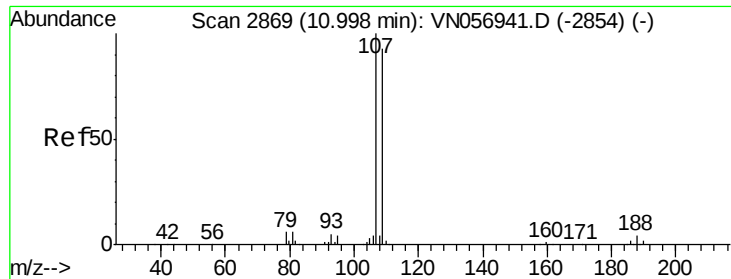
MMdadoda
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#60
Dibromochloromethane
Concen: 53.311 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	129	127	Ratio	Lower	Upper
246166	100	77.3		38.0	113.9





#61

1,2-Dibromoethane

Concen: 52.813 ug/l

RT: 11.00 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 107 Resp: 232292

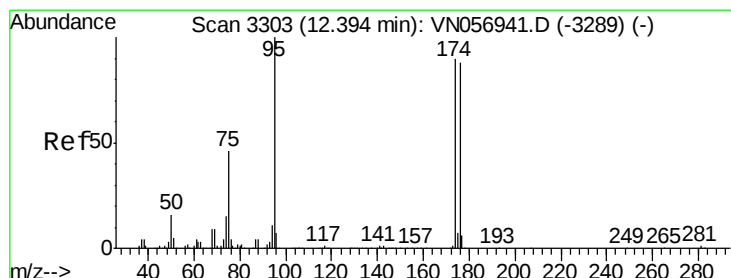
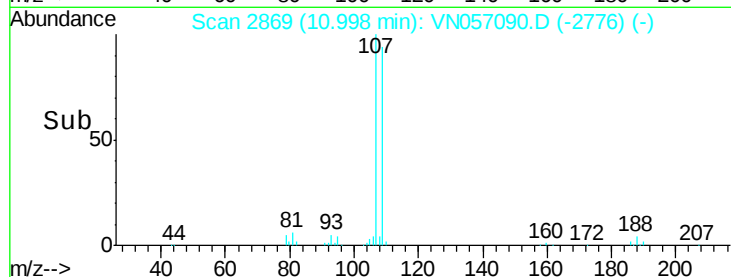
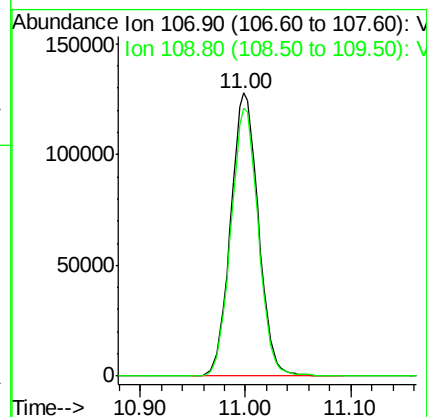
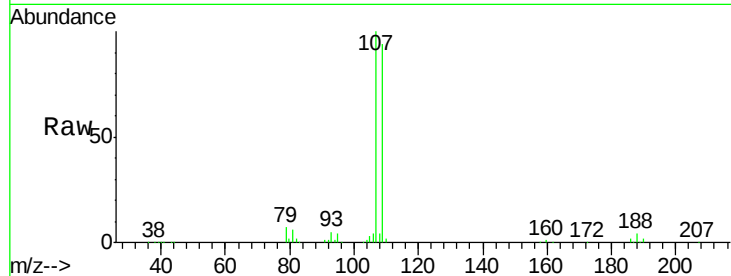
Ion Ratio Lower Upper

107 100

109 93.3 76.0 114.0

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 51.177 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

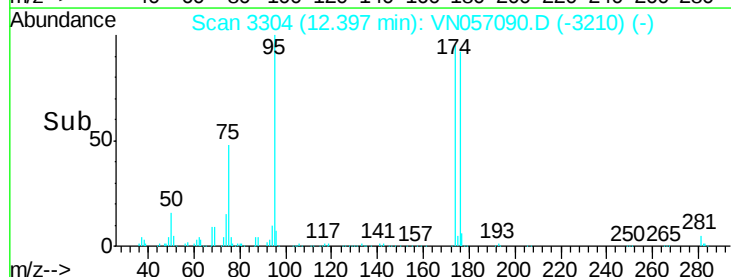
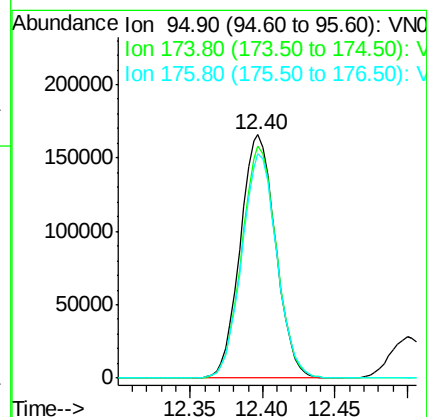
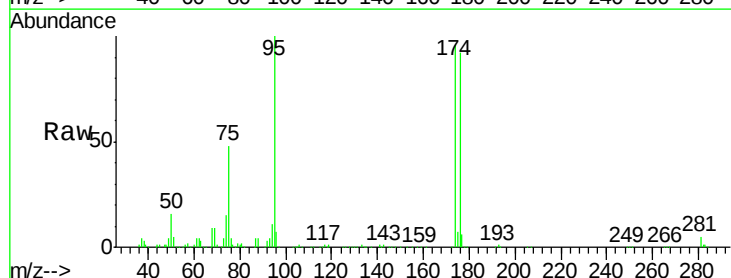
Tgt Ion: 95 Resp: 280720

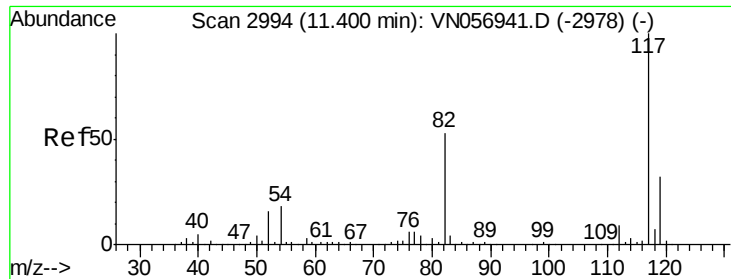
Ion Ratio Lower Upper

95 100

174 94.2 0.0 182.2

176 91.3 0.0 179.4





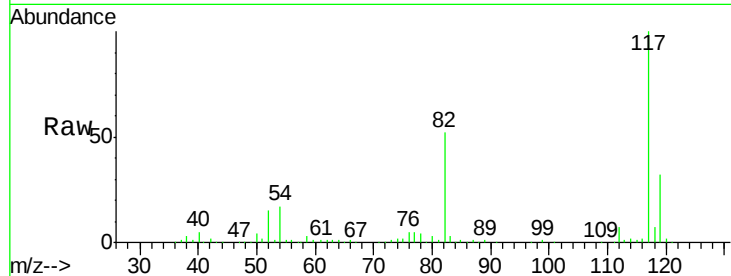
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	618682		
82	51.7	42.2	63.4	
119	32.0	25.8	38.6	

Manual Integrations
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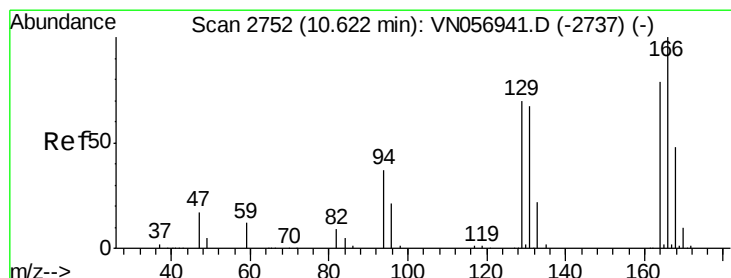
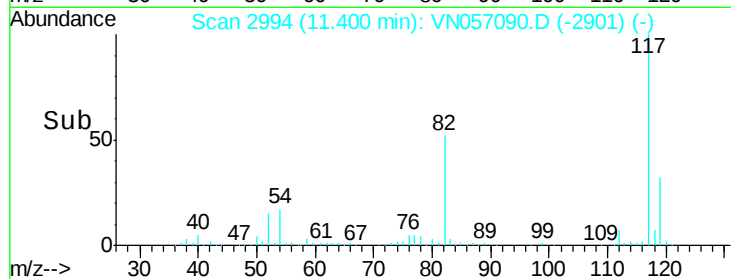
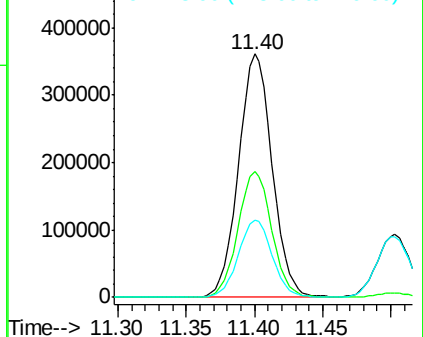


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 45.632 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	243283		
166	129.0	101.1	151.7	
129	89.8	70.9	106.3	
131	85.5	67.7	101.5	

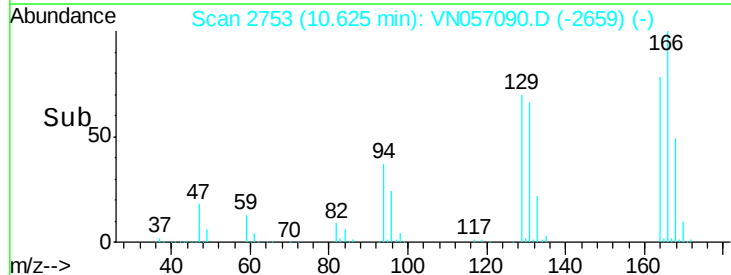
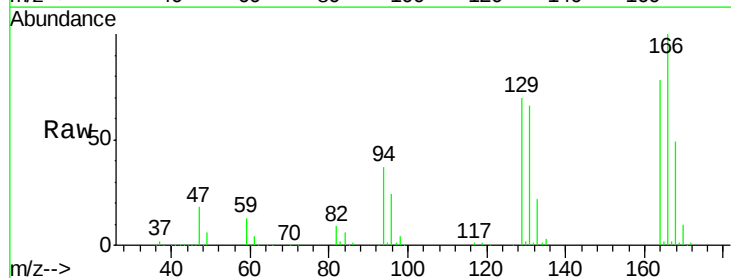
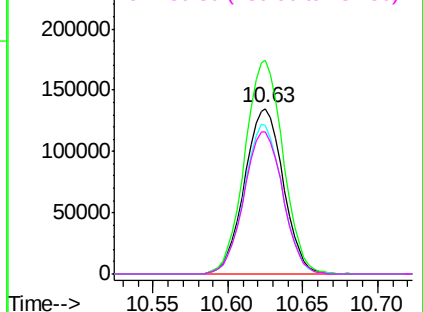
Abundance

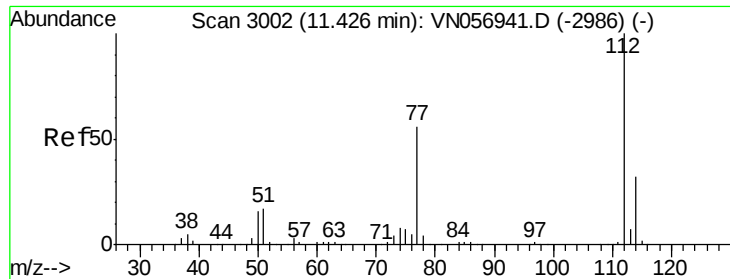
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 47.971 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 604898

Ion Ratio Lower Upper

112 100

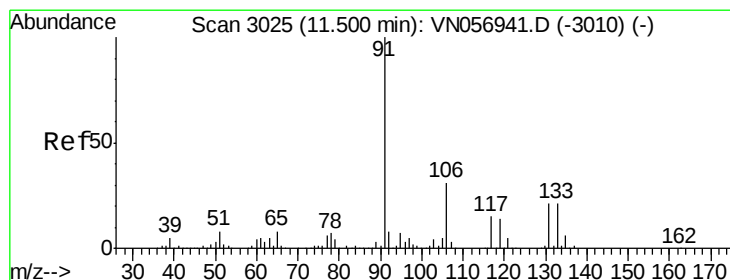
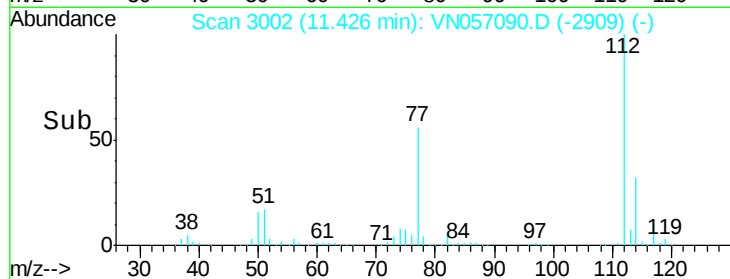
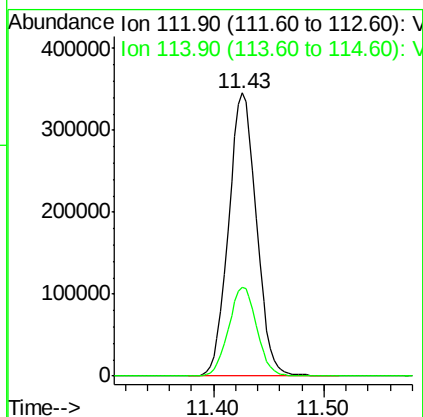
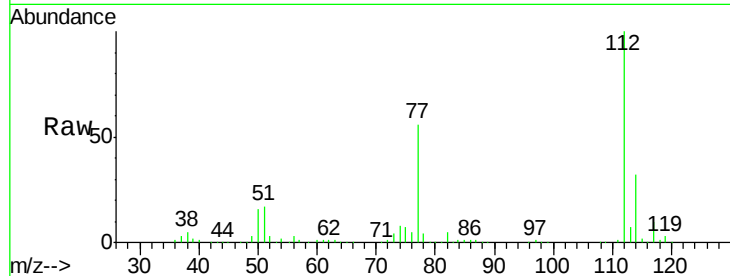
114 31.6 26.0 39.0

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#66

1,1,1,2-Tetrachloroethane

Concen: 50.221 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

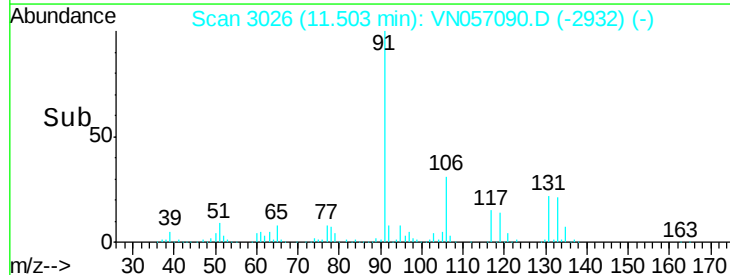
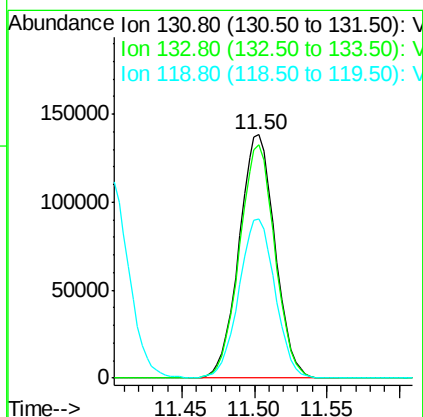
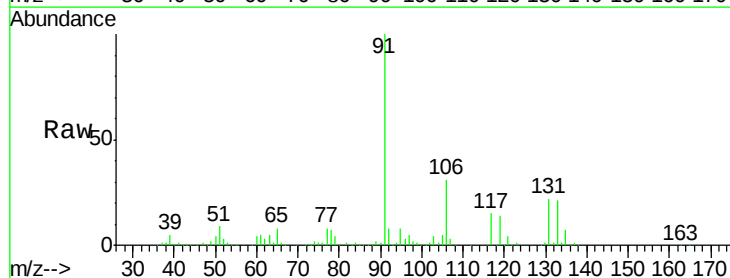
Tgt Ion:131 Resp: 238349

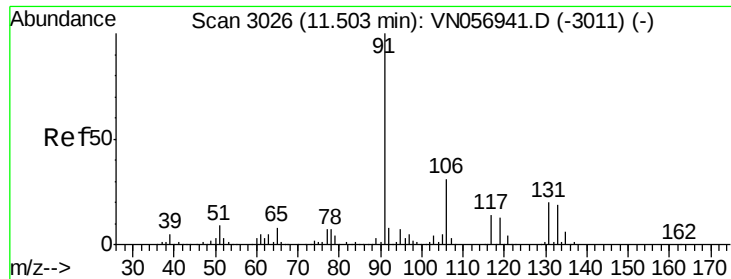
Ion Ratio Lower Upper

131 100

133 94.5 48.0 144.0

119 65.7 33.2 99.6





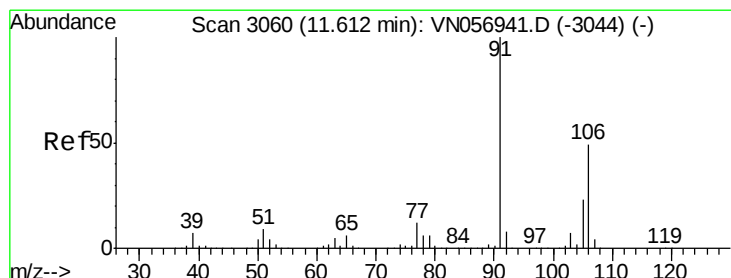
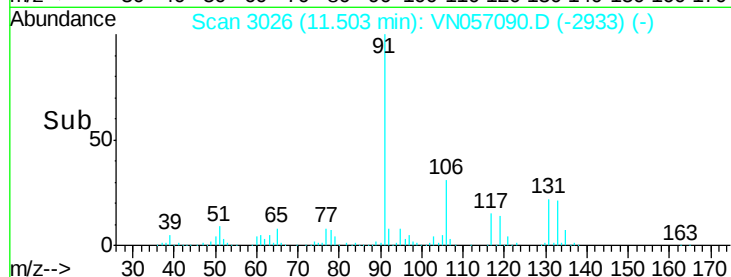
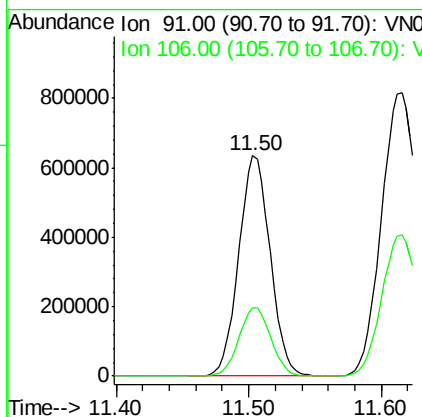
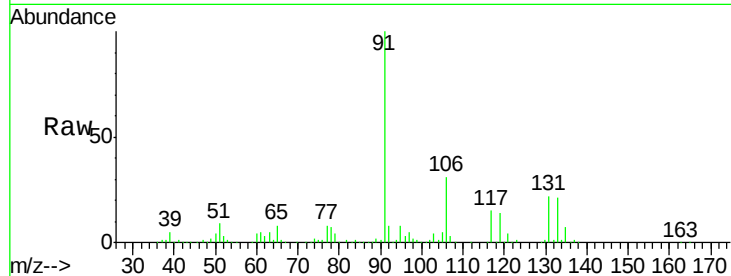
#67
Ethyl Benzene
Concen: 48.022 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1046557
Ion Ratio Lower Upper
91 100
106 31.2 25.1 37.7

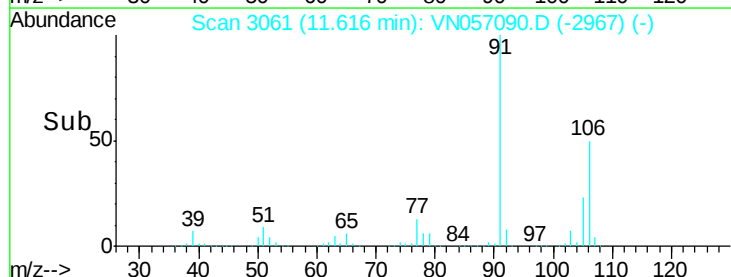
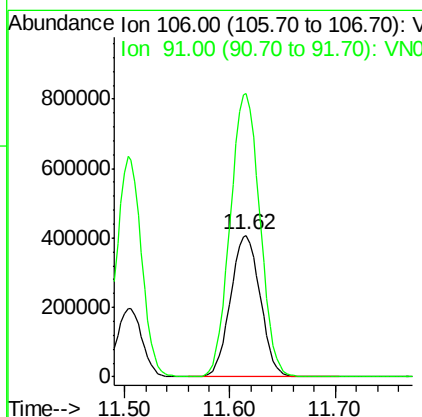
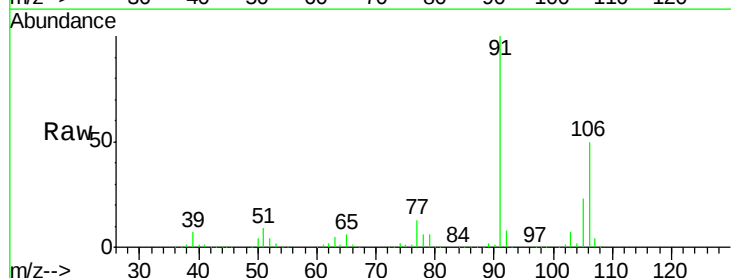
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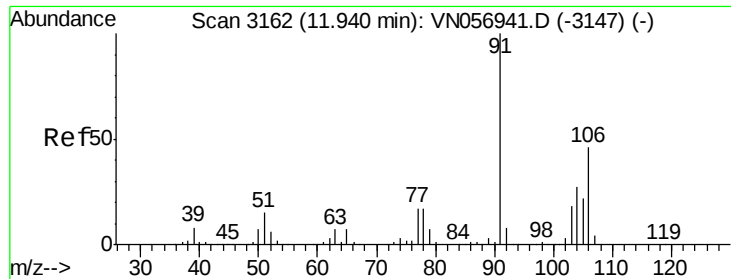
MMdadoda
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#68
m/p-Xylenes
Concen: 98.558 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion: 106 Resp: 792700
Ion Ratio Lower Upper
106 100
91 200.3 160.0 240.0





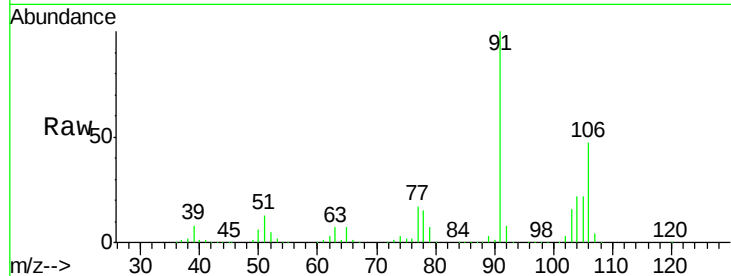
#69
o-Xylene
Concen: 49.473 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

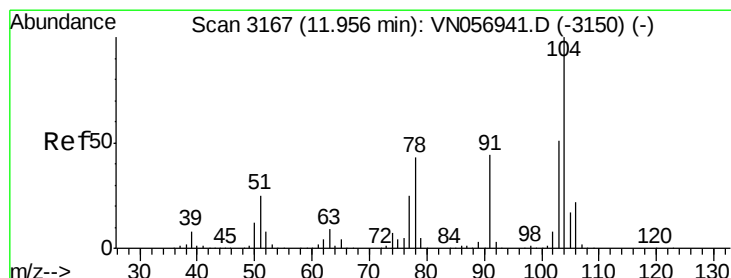
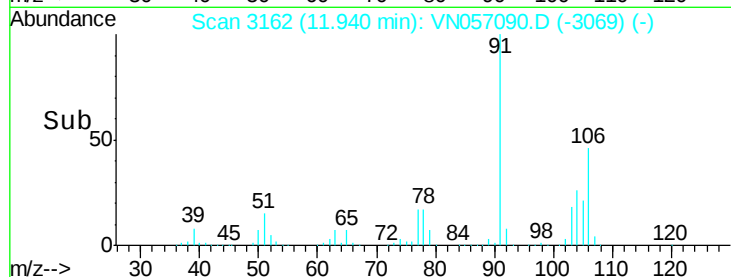
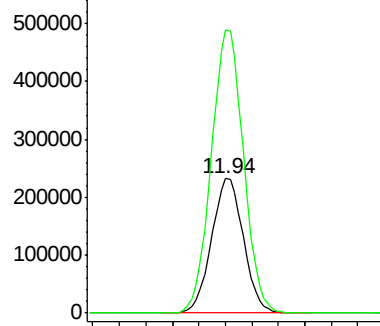
Tot Ion:106 Resp: 389288
Ion Ratio Lower Upper
106 100
91 211.3 106.2 318.6

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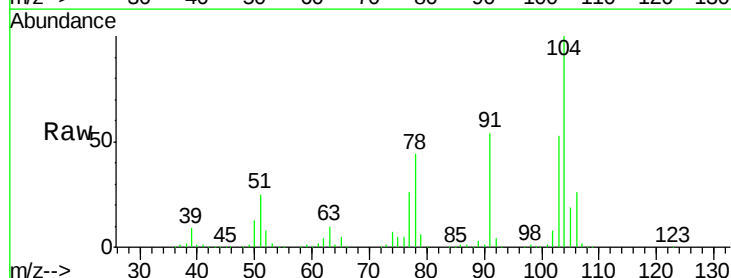


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

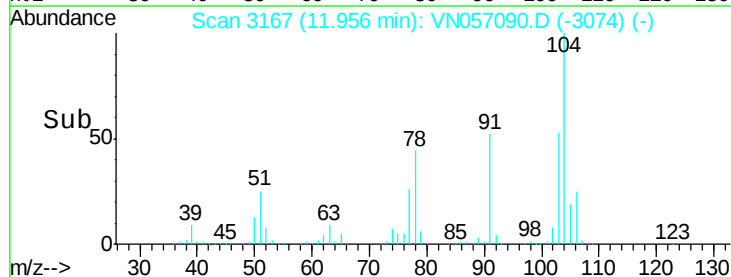
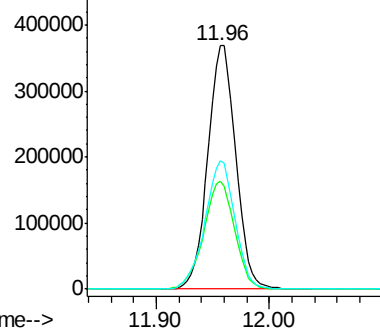


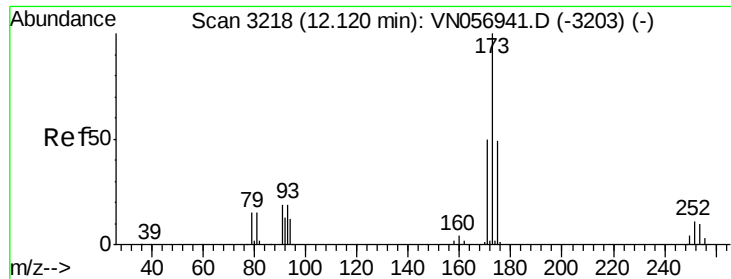
#70
Styrene
Concen: 45.931 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion:104 Resp: 636621
Ion Ratio Lower Upper
104 100
78 48.8 38.1 57.1
103 56.4 44.3 66.5



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





#71

Bromoform

Concen: 54.786 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

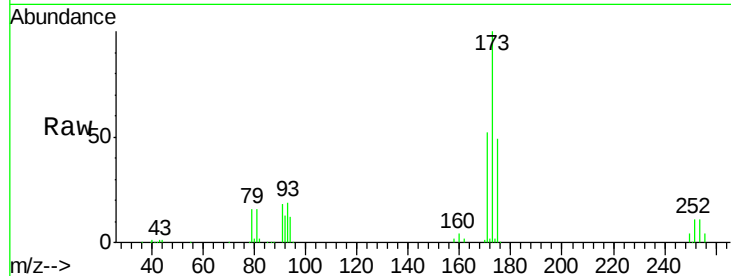
ClientSampled :

VSTDCCC050

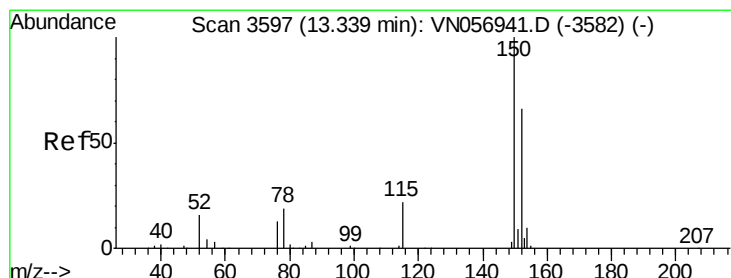
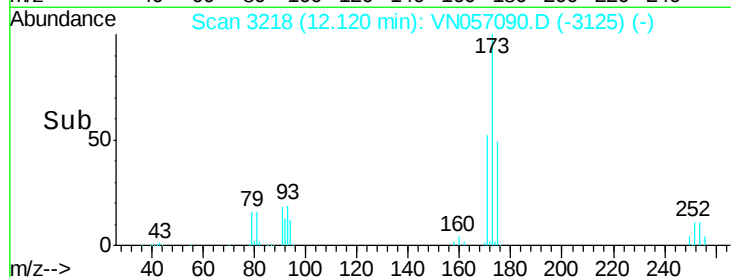
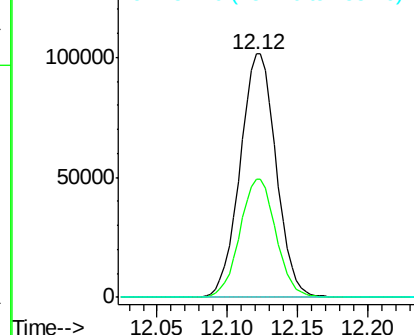
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.1	72.4
254	0.0	0.1	0.1#

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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

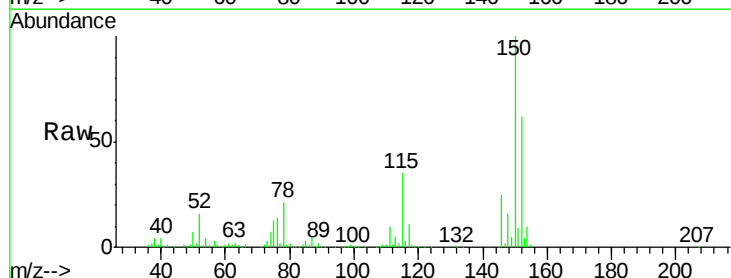
RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

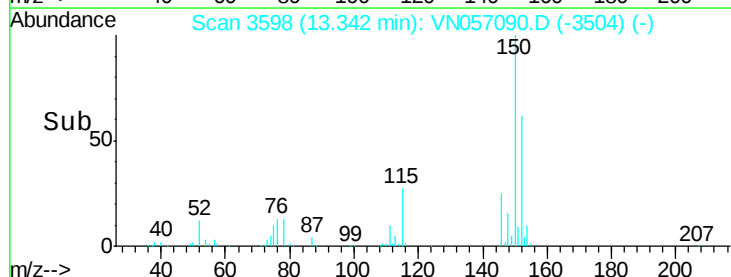
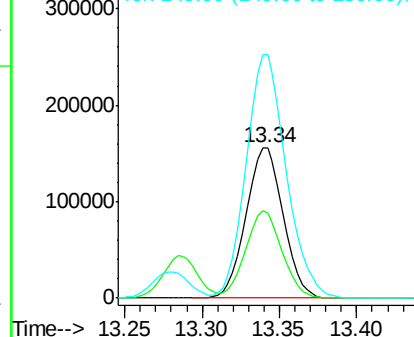
Lab File: VN057090.D

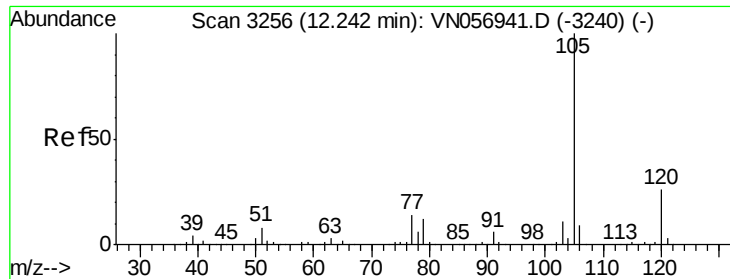
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	28.2	84.6
150	174.9	0.0	349.4



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: 46.691 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 105 Resp: 1048056

Ion Ratio Lower Upper

105 100

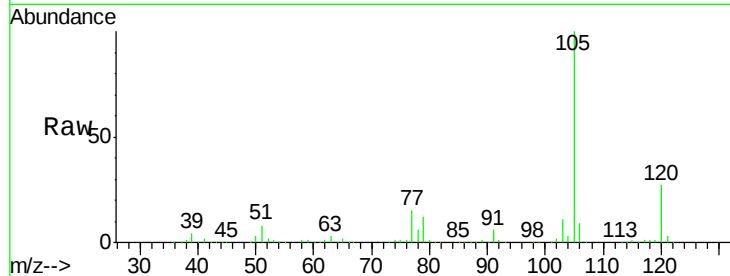
120 27.5

13.5 40.5

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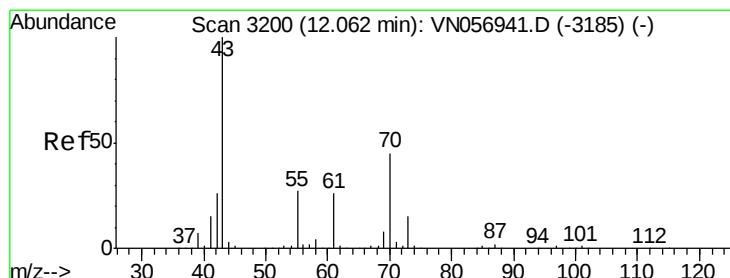
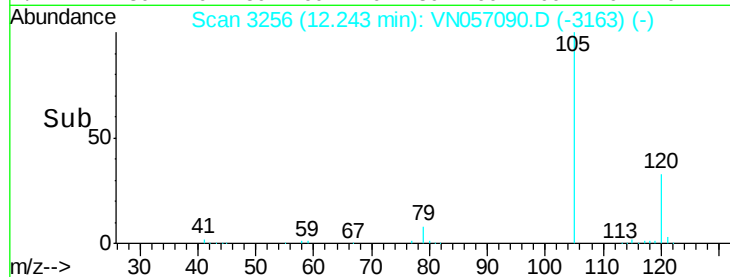
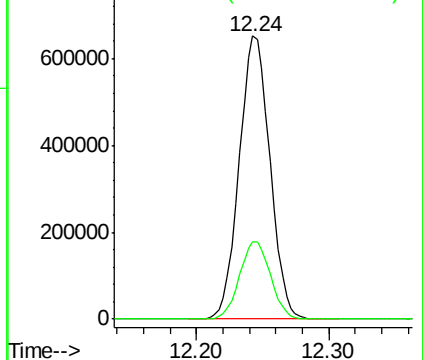
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 51.271 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Tgt Ion: 43 Resp: 334169

Ion Ratio Lower Upper

43 100

70 45.7

55 26.5

61 26.3

36.5 54.7

21.4 32.0

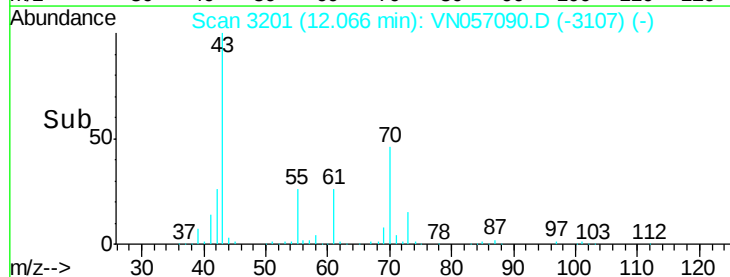
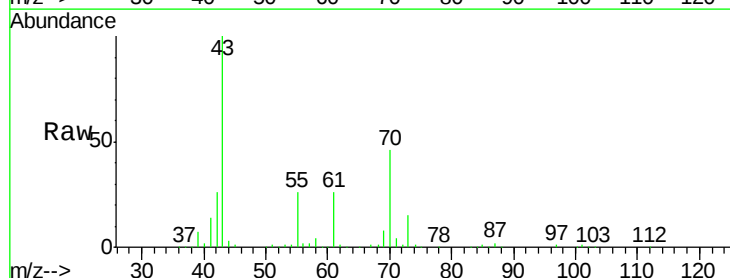
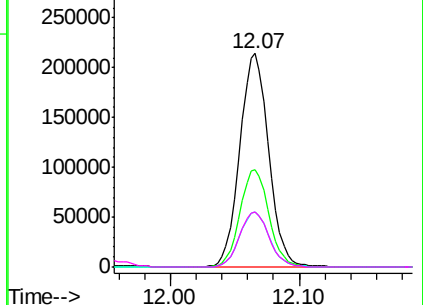
20.5 30.7

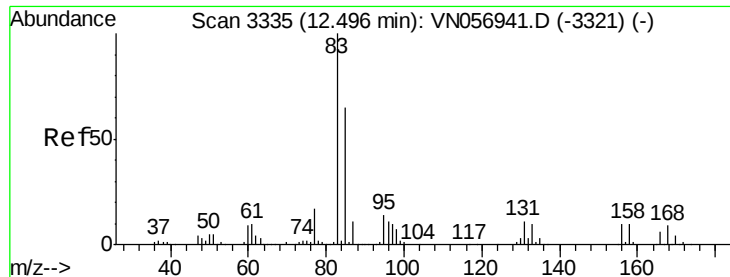
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 54.078 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 305635
Ion Ratio Lower Upper

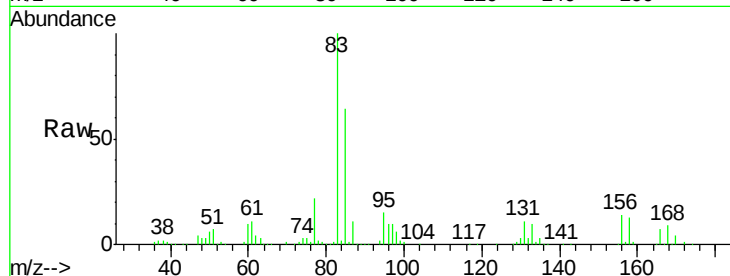
83 100

131 10.8 5.3 16.1

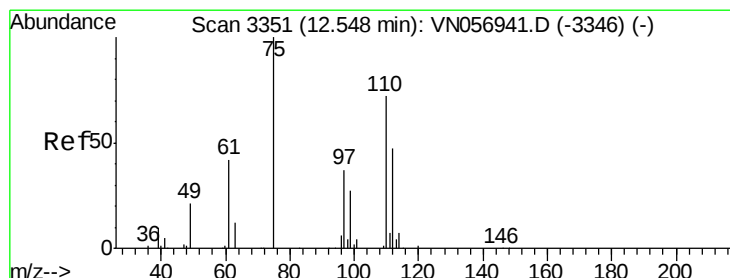
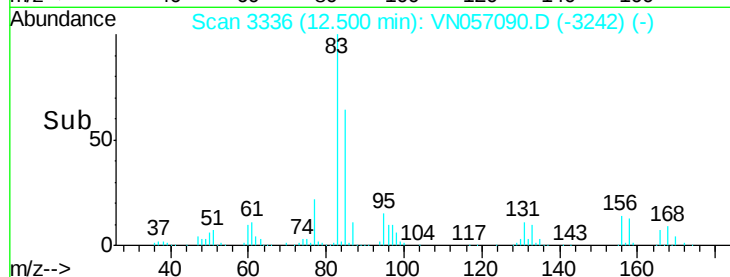
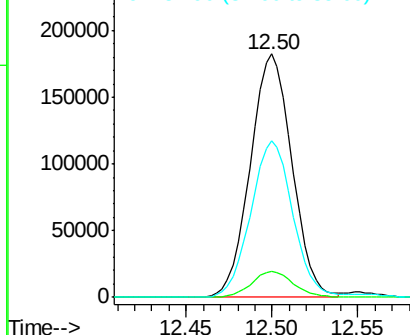
85 66.0 32.5 97.4

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 50.780 ug/l m

RT: 12.55 min Scan# 3352

Delta R.T. 0.00 min

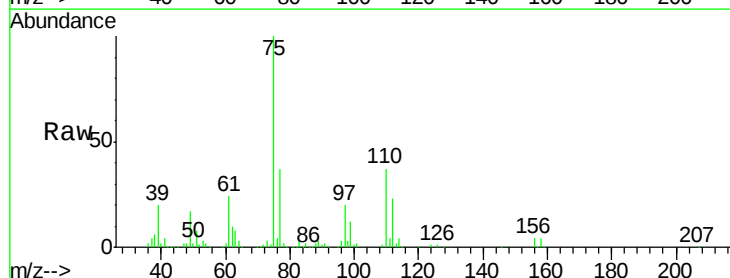
Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

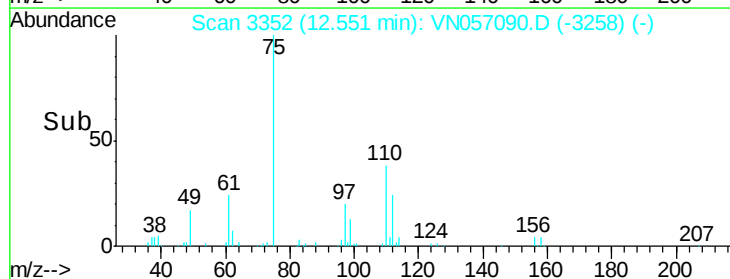
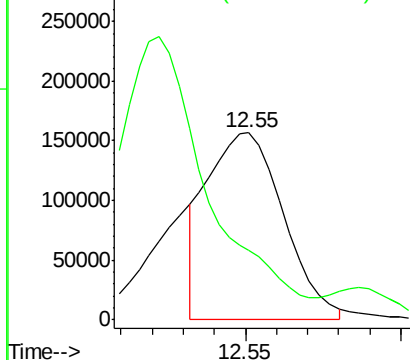
Tgt Ion: 75 Resp: 267845
Ion Ratio Lower Upper

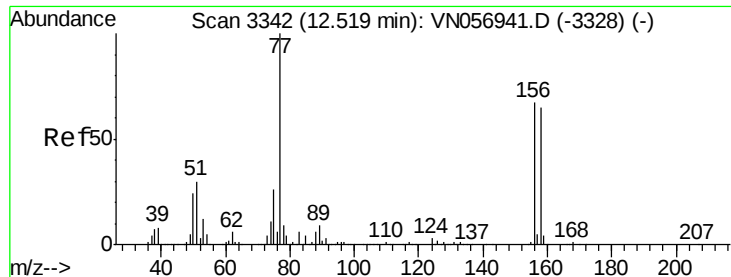
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 47.175 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

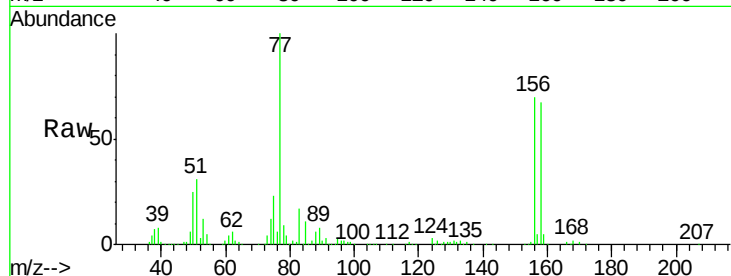
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	176.6	89.5	268.5
158	97.3	48.4	145.3

Manual Integrations
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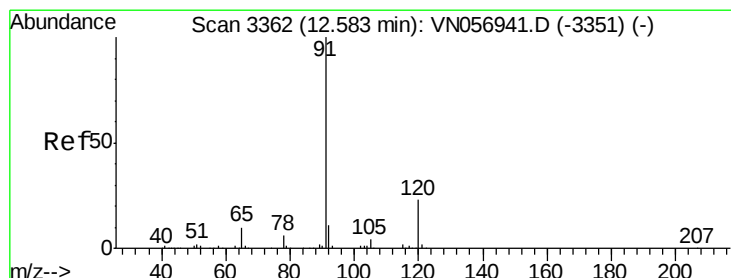
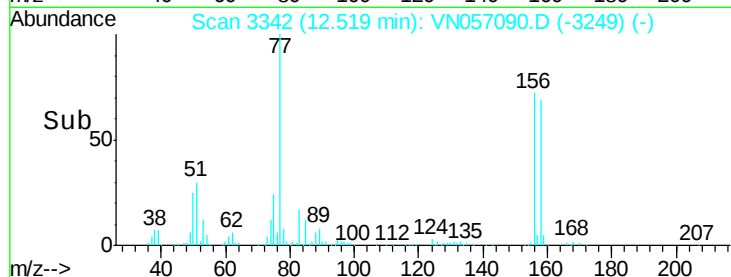
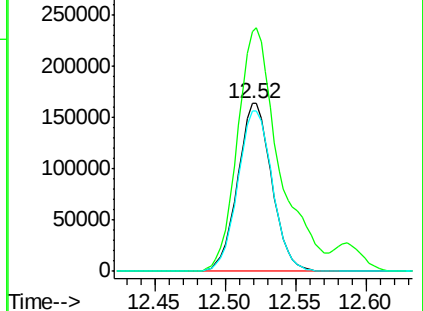
MMDadoda
8/9/2019 12:51:32 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 47.661 ug/l

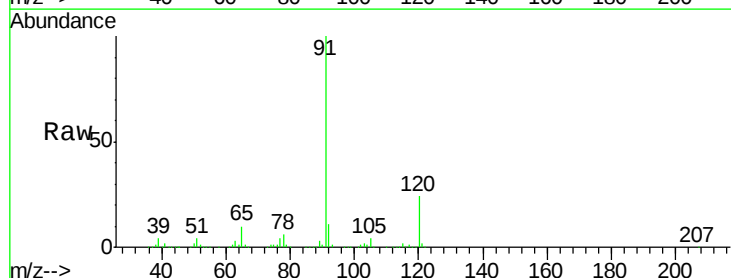
RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN057090.D

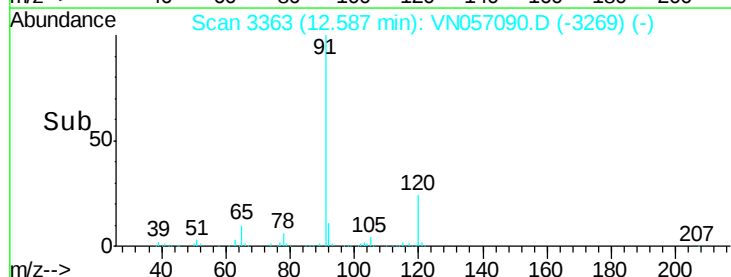
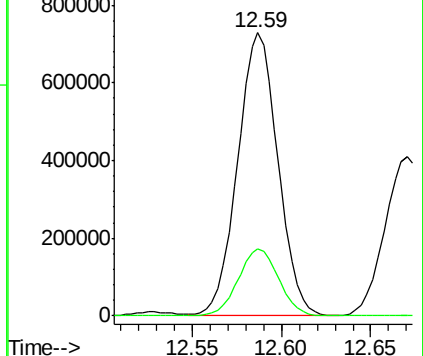
Acq: 6 Aug 2019 9:51

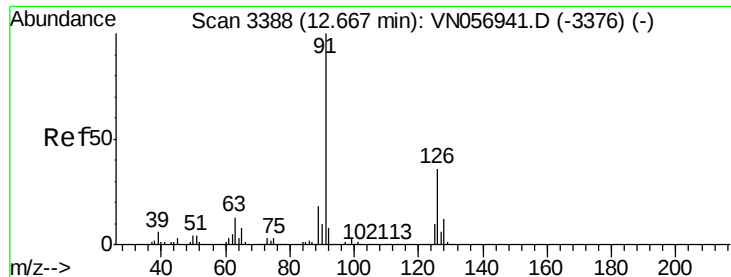
Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.8	11.8	35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 46.422 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 685097

Ion Ratio Lower Upper

91 100

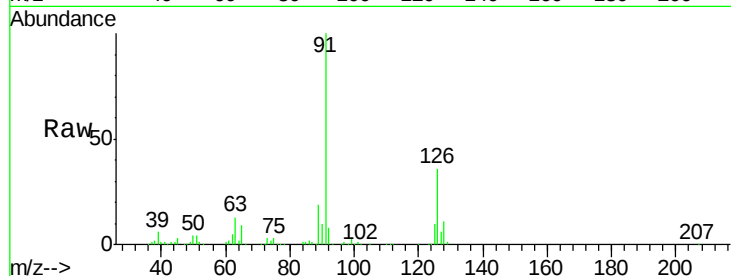
126 36.2 17.9 53.7

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN056941.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN056941.D (-3376) (-)

500000

400000

300000

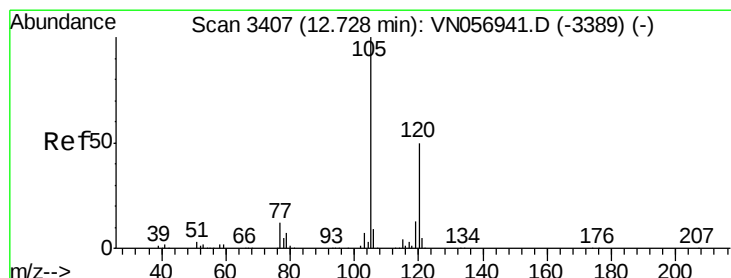
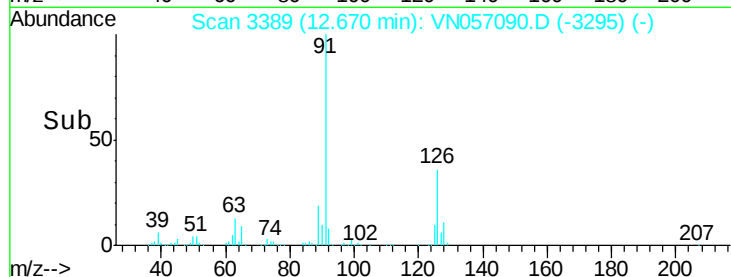
200000

100000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 48.243 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN057090.D

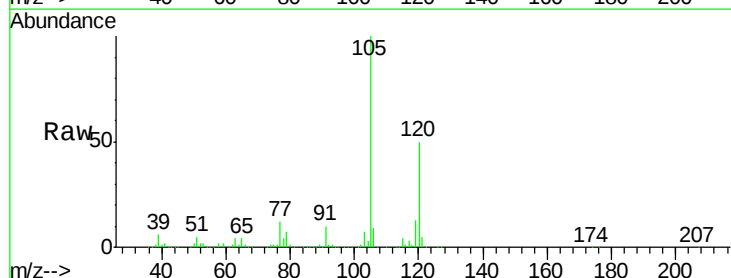
Acq: 6 Aug 2019 9:51

Tgt Ion: 105 Resp: 888761

Ion Ratio Lower Upper

105 100

120 50.1 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VN056941.D (-3389) (-)

Ion 120.00 (119.70 to 120.70): VN056941.D (-3389) (-)

600000

500000

400000

300000

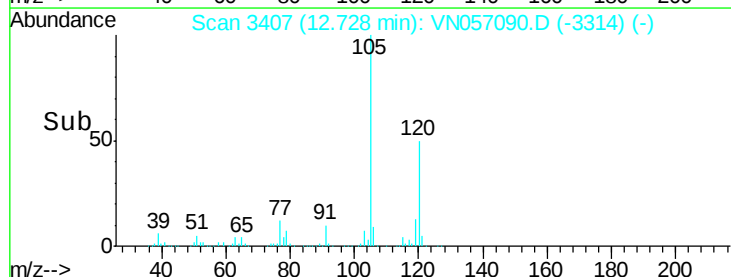
200000

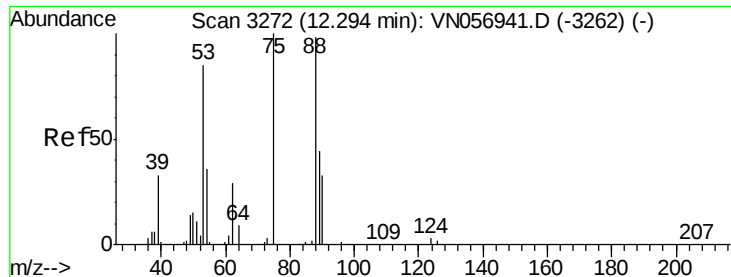
100000

0

12.65 12.70 12.75 12.80

Time-->





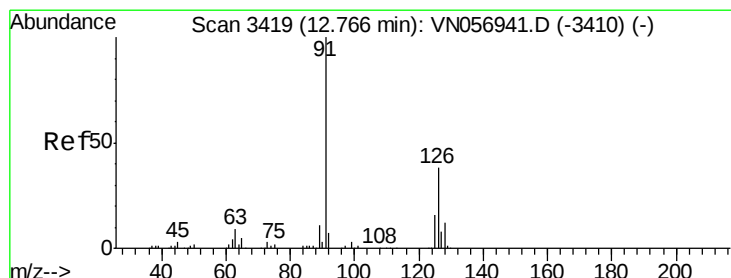
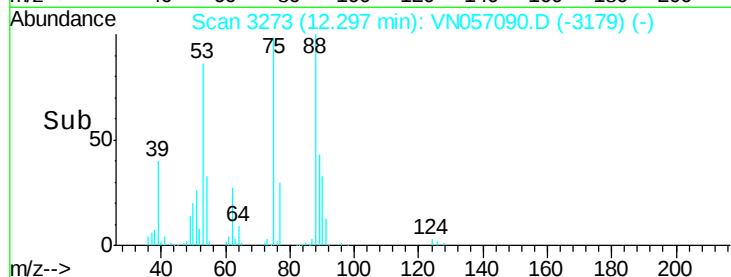
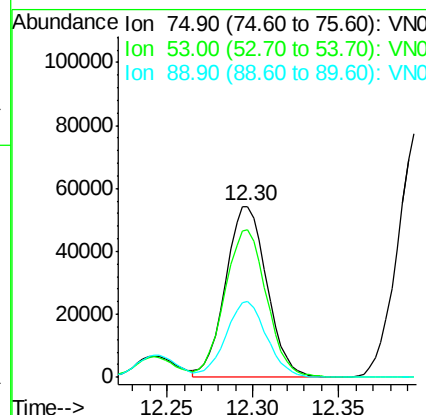
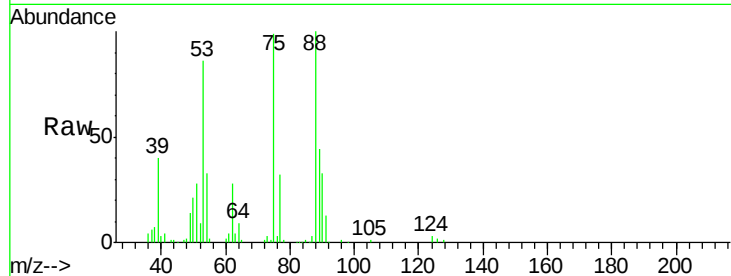
#81
trans-1,4-Dichloro-2-butene
Concen: 55.433 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.7	69.3	103.9
89	43.8	35.8	53.6

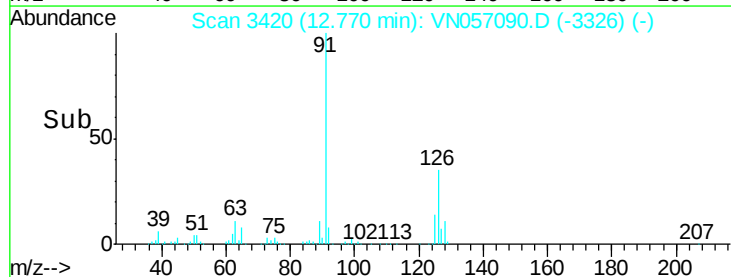
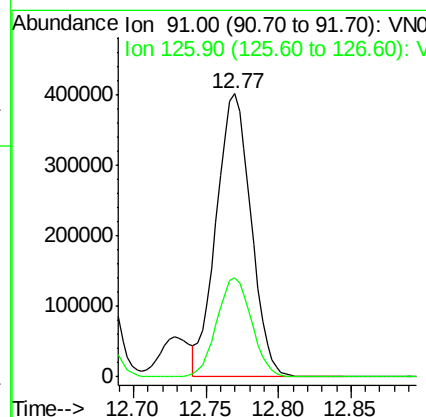
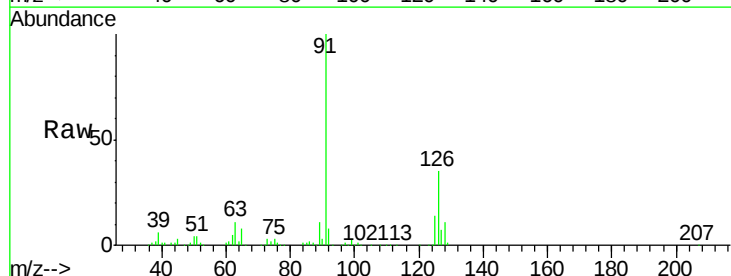
Manual Integrations
APPROVED

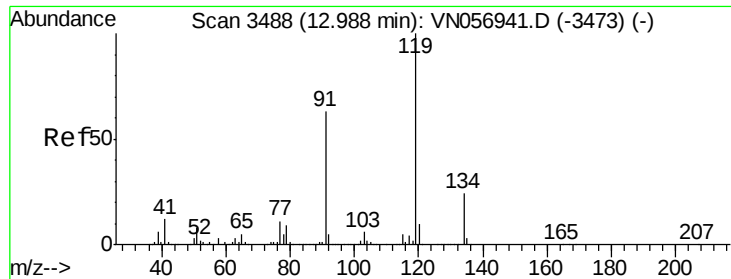
MMDadoda
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#82
4-Chlorotoluene
Concen: 48.326 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.5	52.5





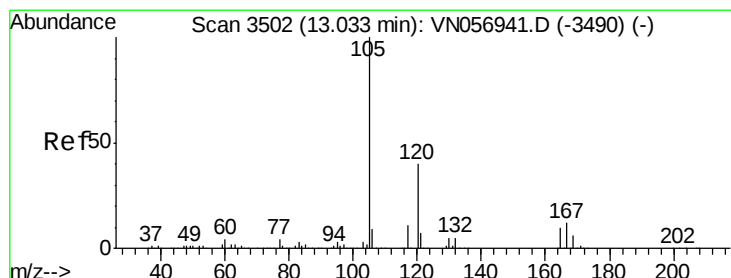
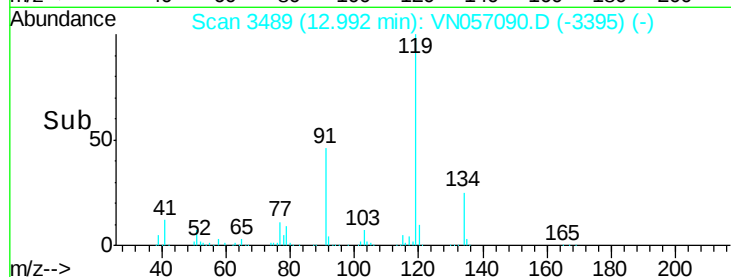
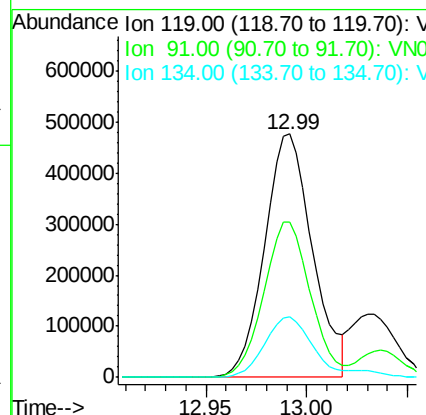
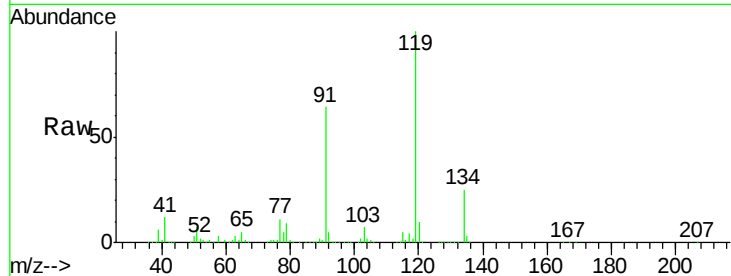
#83
tert-Butylbenzene
Concen: 48.374 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	788907		
91	61.9		31.3	93.8
134	24.5		13.3	39.8

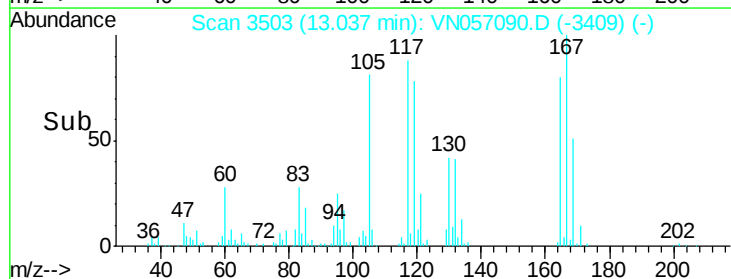
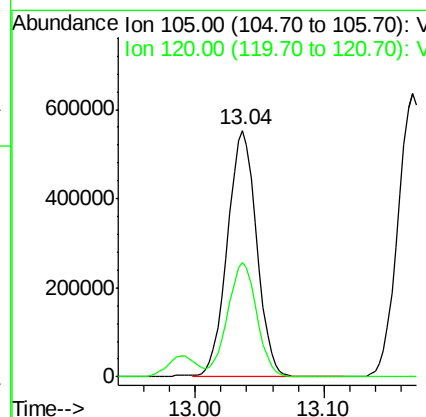
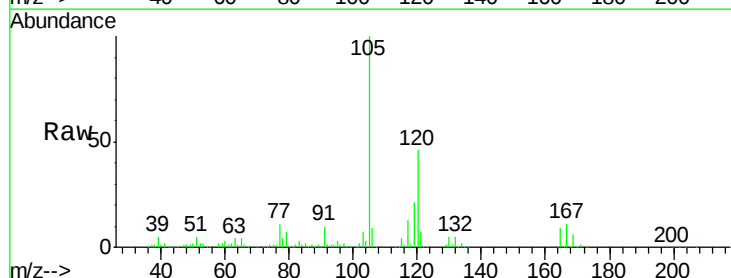
Manual Integrations
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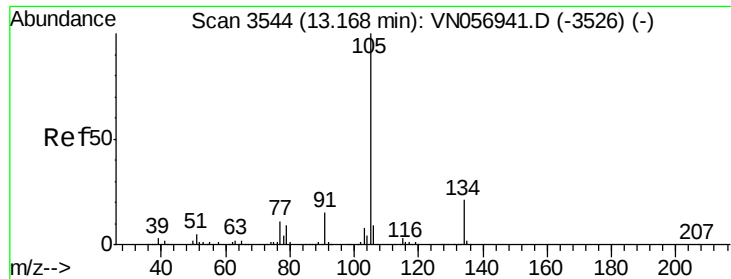
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 48.891 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	866664		
120	46.4		23.2	69.6





#85

sec-Butylbenzene

Concen: 47.960 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1008883

Ion Ratio Lower Upper

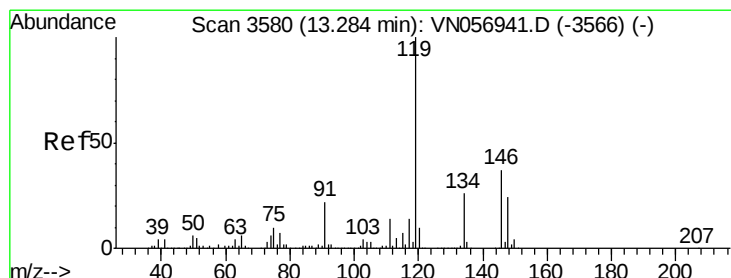
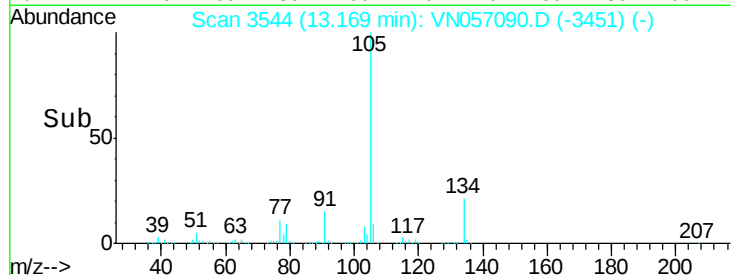
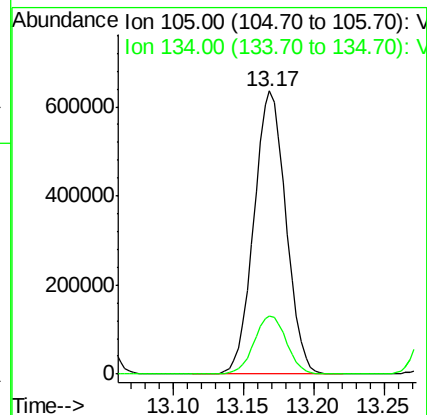
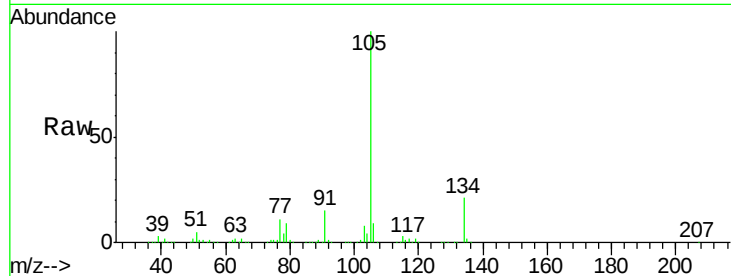
105 100

134 20.8 10.3 30.8

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 48.785 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

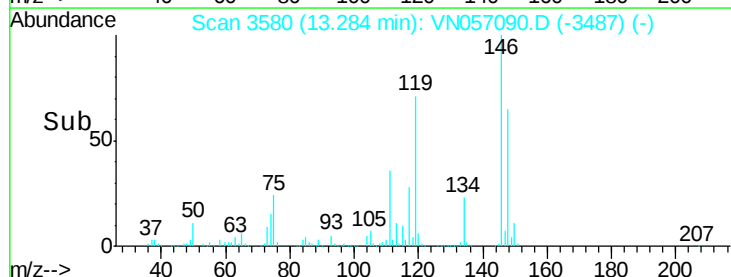
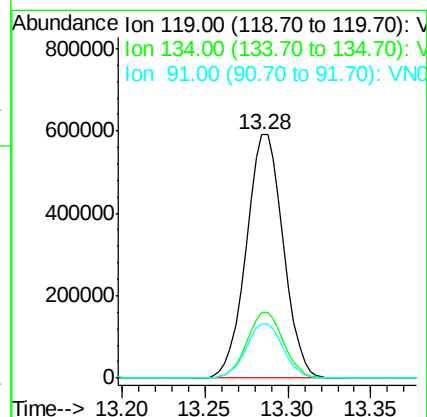
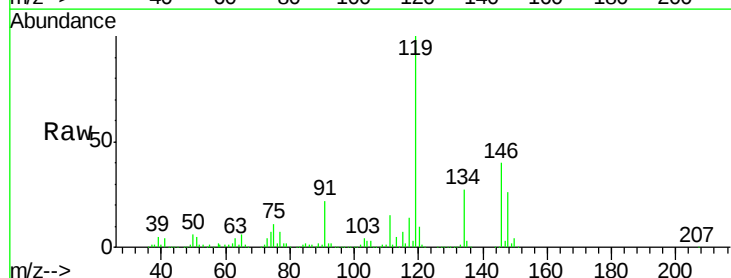
Tgt Ion:119 Resp: 911130

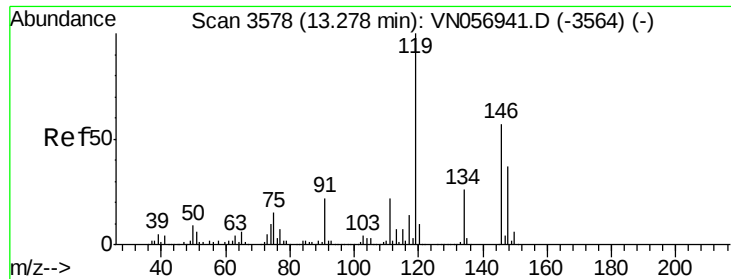
Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.1

91 22.3 11.0 33.0





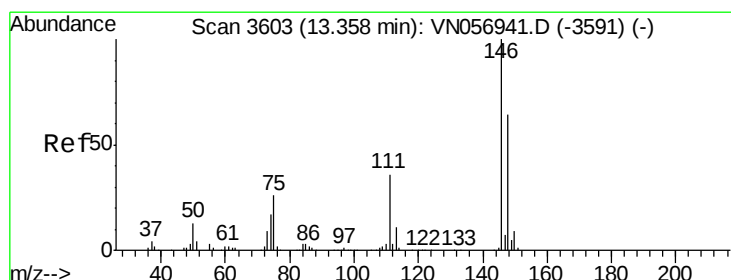
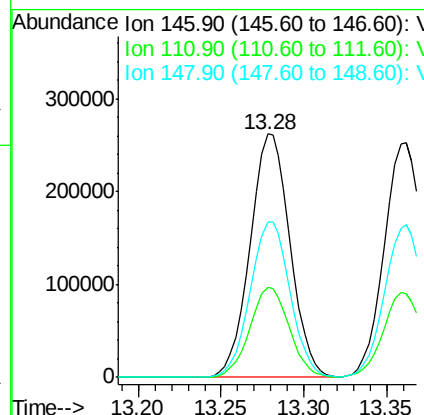
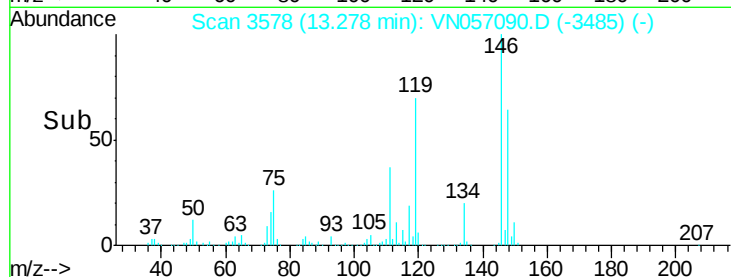
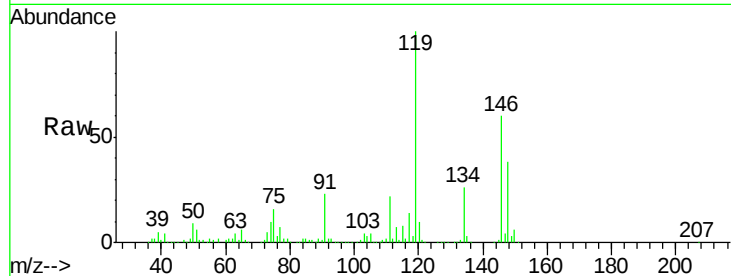
#87
 1,3-Dichlorobenzene
 Concen: 49.298 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	439316		
111	36.6	18.6	55.8	
148	63.9	32.2	96.6	

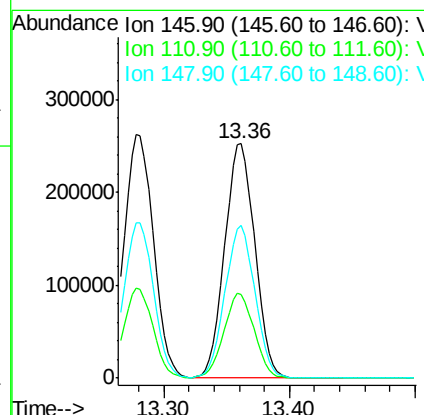
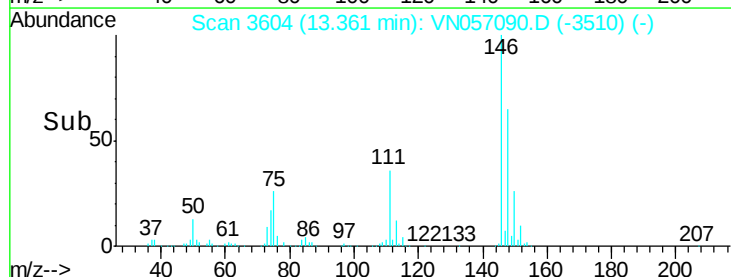
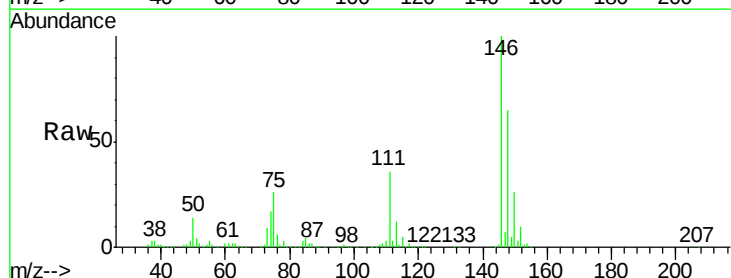
Manual Integrations
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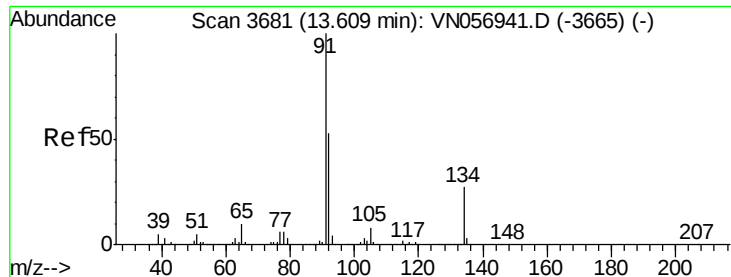
MMdadoda
 8/9/2019 12:51:32 AM



#88
 1,4-Dichlorobenzene
 Concen: 49.102 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	421239		
111	36.3	18.4	55.2	
148	64.5	32.3	96.9	





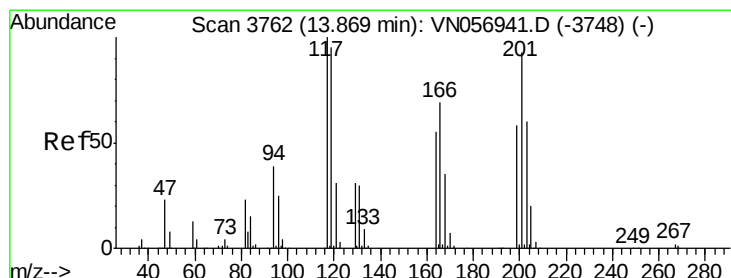
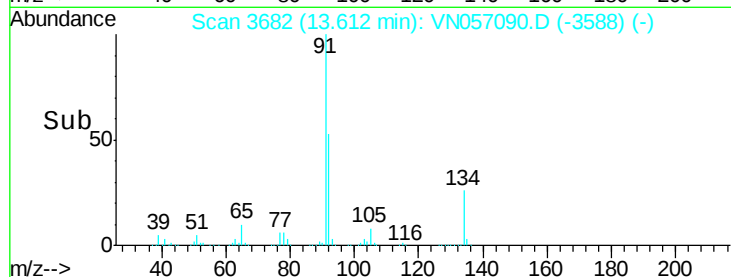
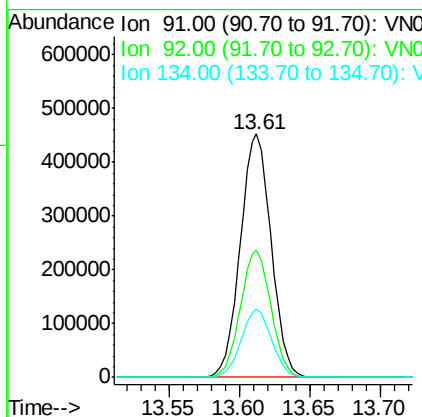
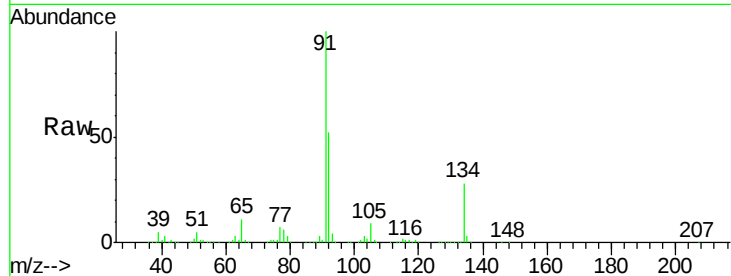
#89
n-Butylbenzene
Concen: 48.088 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.2	78.5
134	27.6	13.5	40.4

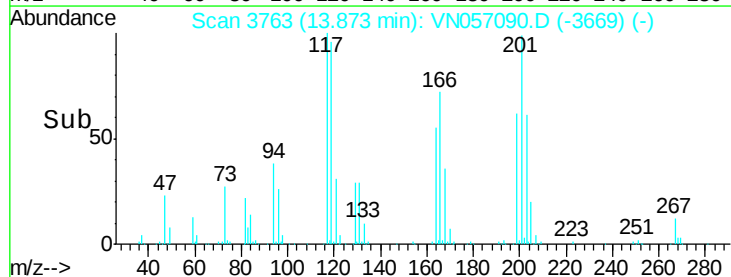
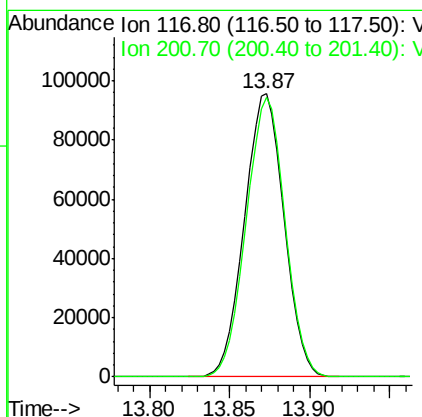
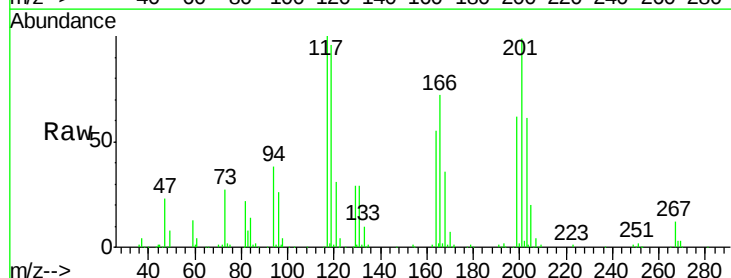
Manual Integrations
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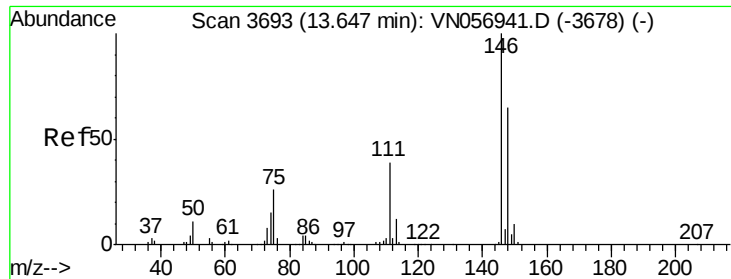
MMdadoda
8/9/2019 12:51:32 AM



#90
Hexachloroethane
Concen: 50.237 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN057090.D
Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.0	47.0	141.2





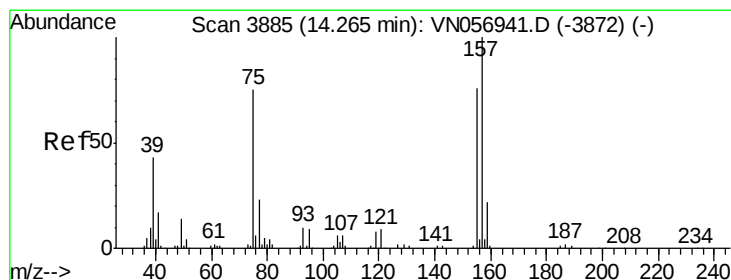
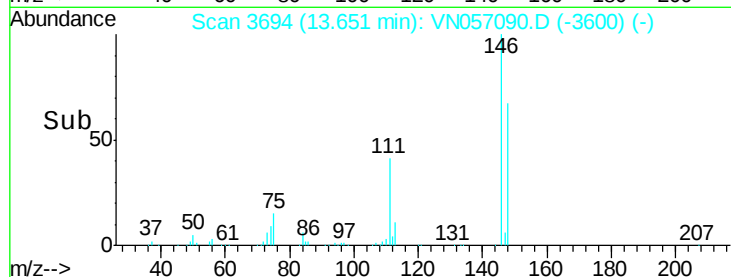
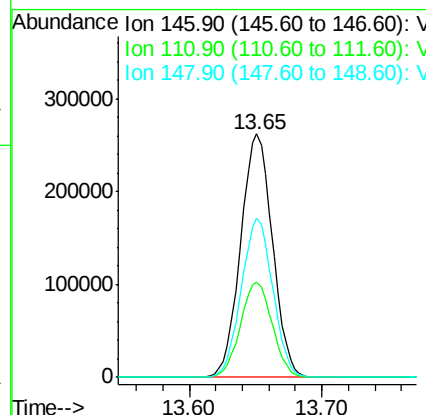
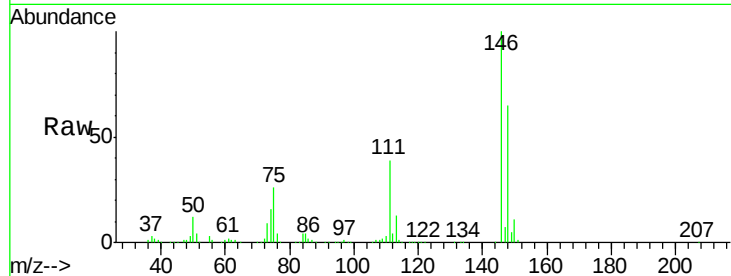
#91
 1,2-Dichlorobenzene
 Concen: 49.800 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.4	58.4
148	64.8	32.2	96.6

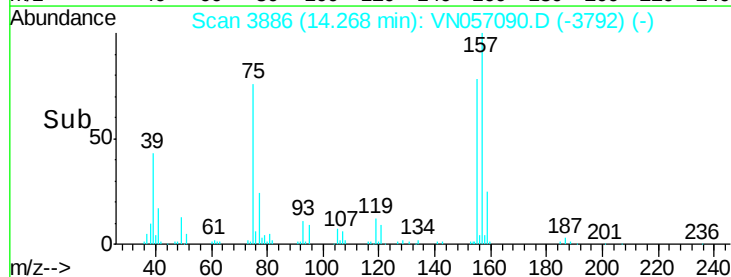
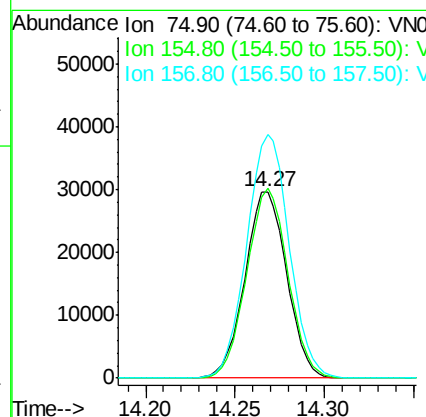
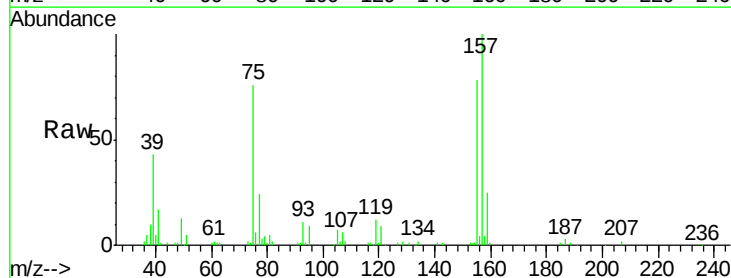
Manual Integrations
 APPROVED

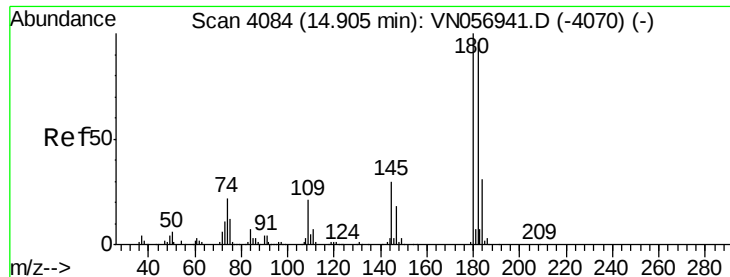
MMDadoda
 8/9/2019 12:51:32 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 54.268 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN057090.D
 Acq: 6 Aug 2019 9:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.8	50.2	150.6
157	133.2	65.1	195.4





#93

1,2,4-Trichlorobenzene

Concen: 43.811 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

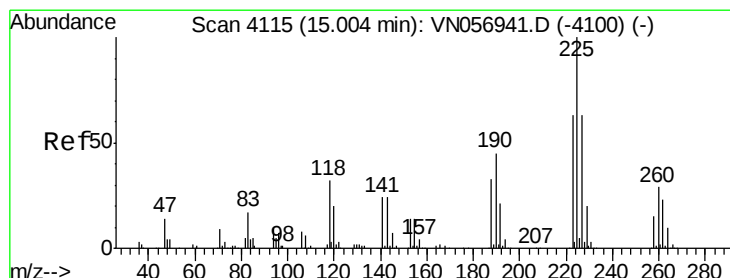
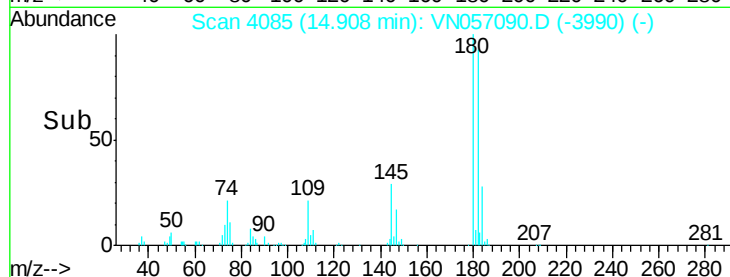
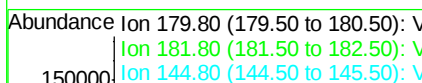
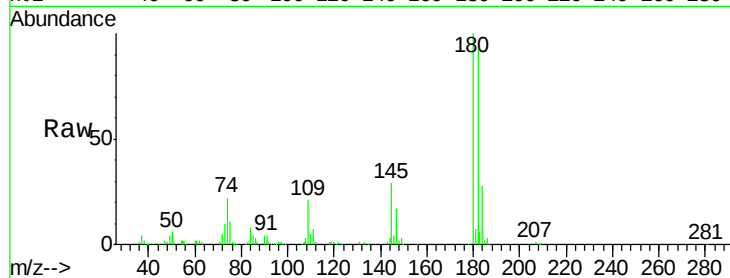
ClientSampleId :

VSTDCCC050

Tot Ion:	180	Resp:	196616
Ion Ratio	Lower	Upper	
180	100		
182	94.4	47.6	142.8
145	28.5	14.2	42.8

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8/9/2019 12:51:32 AM



#94

Hexachlorobutadiene

Concen: 59.748 ug/l

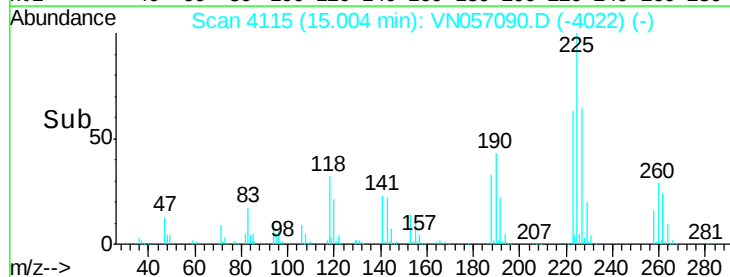
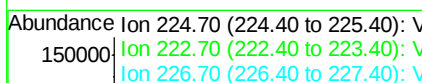
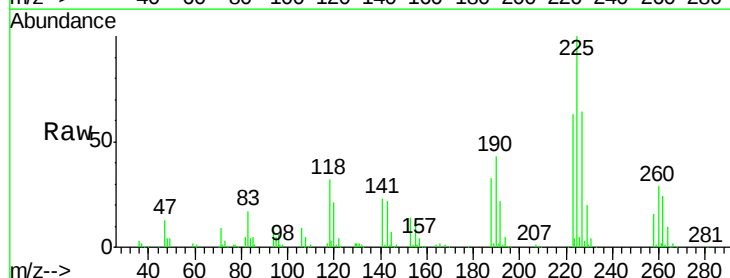
RT: 15.00 min Scan# 4115

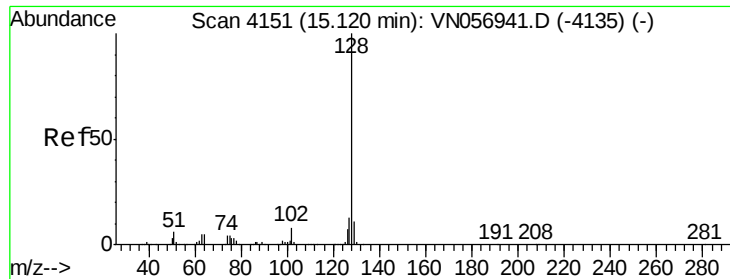
Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Tgt Ion:	225	Resp:	181063
Ion Ratio	Lower	Upper	
225	100		
223	62.4	30.8	92.4
227	62.8	31.1	93.5





#95

Naphthalene

Concen: 43.507 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Instrument :

MSVOA_N

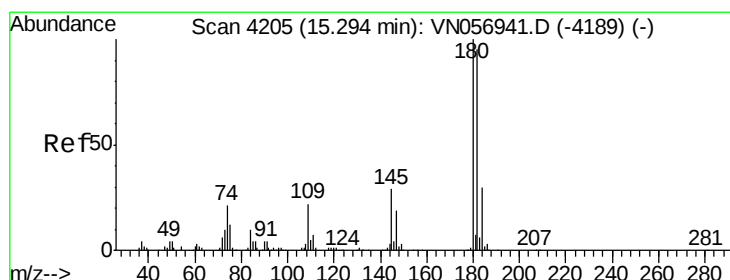
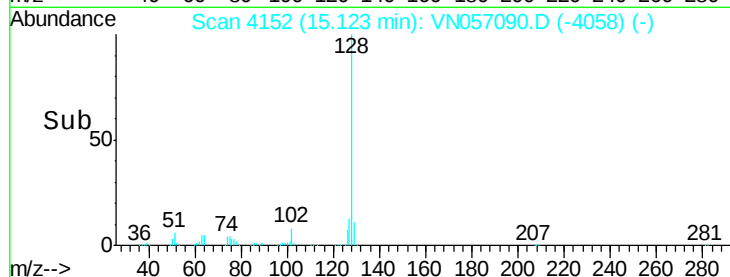
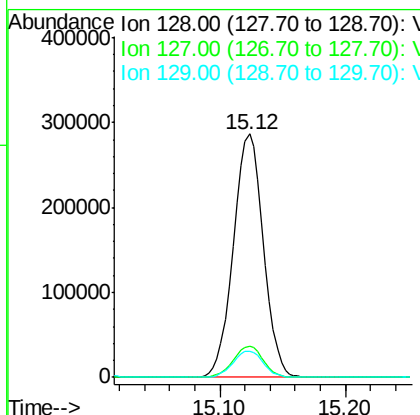
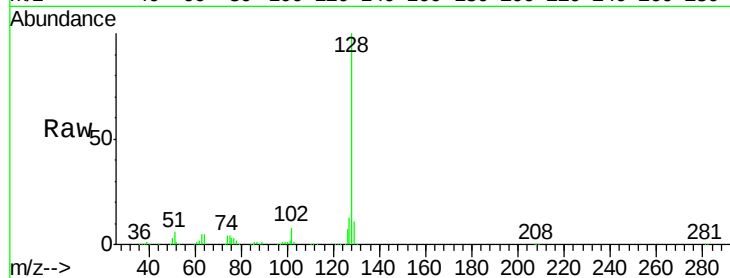
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	474577
Ion Ratio		Lower	Upper
128	100		
127	12.7	10.0	15.0
129	10.9	8.7	13.1

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 46.825 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057090.D

Acq: 6 Aug 2019 9:51

Tgt Ion:	180	Resp:	213470
Ion Ratio		Lower	Upper
180	100		
182	96.5	48.0	144.2
145	29.2	15.0	45.0

