

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102919\
 Data File : VN058996.D
 Acq On : 29 Oct 2019 9:36
 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
 10/30/2019 3:53:35 PM

Quant Time: Oct 30 03:07:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	424601	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	664786	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	619359	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	303906	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	274297	44.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.10%	
35) Dibromofluoromethane	7.57	113	213201	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
50) Toluene-d8	10.08	98	810171	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
62) 4-Bromofluorobenzene	12.40	95	313513	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	230509	43.542	ug/l	100
3) Chloromethane	2.04	50	292869	44.668	ug/l	99
4) Vinyl Chloride	2.17	62	303904	46.682	ug/l	96
5) Bromomethane	2.54	94	172046	42.202	ug/l	98
6) Chloroethane	2.68	64	183458	43.944	ug/l	97
7) Trichlorofluoromethane	3.00	101	371225	46.086	ug/l	99
8) Diethyl Ether	3.38	74	145360	52.220	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.73	101	216689	48.524	ug/l	98
10) Methyl Iodide	3.93	142	265888	45.271	ug/l	98
11) Tert butyl alcohol	4.74	59	239674	231.924	ug/l	100
12) 1,1-Dichloroethene	3.71	96	205619	49.123	ug/l	96
13) Acrolein	3.58	56	170184	239.673	ug/l	99
14) Allyl chloride	4.29	41	434007	51.241	ug/l	95
15) Acrylonitrile	4.95	53	671850	258.457	ug/l	99
16) Acetone	3.79	43	788582	256.264	ug/l	99
17) Carbon Disulfide	4.03	76	585148	43.397	ug/l	99
18) Methyl Acetate	4.29	43	356728	50.989	ug/l	100
19) Methyl tert-butyl Ether	5.01	73	777011	53.014	ug/l	100
20) Methylene Chloride	4.52	84	252279	48.012	ug/l	96
21) trans-1,2-Dichloroethene	5.01	96	228901	49.518	ug/l	99
22) Diisopropyl ether	5.92	45	889742	53.705	ug/l	94
23) Vinyl Acetate	5.86	43	3667512	275.535	ug/l	99
24) 1,1-Dichloroethane	5.82	63	476615	49.614	ug/l	100
25) 2-Butanone	6.81	43	993498	248.712	ug/l	98
26) 2,2-Dichloropropane	6.80	77	411440	49.516	ug/l	98
27) cis-1,2-Dichloroethene	6.80	96	269317	51.001	ug/l	99
28) Bromochloromethane	7.17	49	160463	50.156	ug/l	100
29) Tetrahydrofuran	7.18	42	605054	247.606	ug/l	100
30) Chloroform	7.35	83	456841	47.409	ug/l	100
31) Cyclohexane	7.63	56	413640	46.220	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	394597	48.582	ug/l	98
36) 1,1-Dichloropropene	7.77	75	344919	50.678	ug/l	100
37) Ethyl Acetate	6.90	43	382254	51.545	ug/l	99
38) Carbon Tetrachloride	7.75	117	339999	48.492	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	399184	52.234	ug/l	99
40) Benzene	8.02	78	1036688	51.871	ug/l	99
41) Methacrylonitrile	7.15	41	169748m	51.393	ug/l	
42) 1,2-Dichloroethane	8.10	62	373505	48.515	ug/l	99
43) Isopropyl Acetate	8.14	43	623322	52.408	ug/l	100
44) Trichloroethene	8.82	130	252730	51.912	ug/l	96
45) 1,2-Dichloropropane	9.10	63	287875	52.528	ug/l	98
46) Dibromomethane	9.19	93	175666	50.703	ug/l	98
47) Bromodichloromethane	9.39	83	369403	51.732	ug/l	100
48) Methyl methacrylate	9.18	41	287456	53.271	ug/l	96
49) 1,4-Dioxane	9.18	88	90880	1025.945	ug/l	98
51) 4-Methyl-2-Pentanone	9.97	43	1908839	274.773	ug/l	98
52) Toluene	10.15	92	636254	53.684	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	427073	54.026	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	456691	54.076	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	252161	51.647	ug/l	99
56) Ethyl methacrylate	10.42	69	407208	49.666	ug/l	95
57) 1,3-Dichloropropane	10.70	76	443491	51.754	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.68	63	891286	257.191	ug/l	100
59) 2-Hexanone	10.75	43	1462683	272.475	ug/l	98
60) Dibromochloromethane	10.90	129	279658	53.215	ug/l	99
61) 1,2-Dibromoethane	11.00	107	260852	52.206	ug/l	100
64) Tetrachloroethene	10.63	164	221899	51.157	ug/l	98
65) Chlorobenzene	11.43	112	673381	53.403	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	255396	53.675	ug/l	99
67) Ethyl Benzene	11.51	91	1240666	56.089	ug/l	98
68) m/p-Xylenes	11.62	106	920394	112.202	ug/l	100
69) o-Xylene	11.95	106	442336	56.540	ug/l	98
70) Styrene	11.96	104	741283	51.286	ug/l	99
71) Bromoform	12.13	173	203518	55.158	ug/l #	99
73) Isopropylbenzene	12.25	105	1204568	54.236	ug/l	99
74) N-amyl acetate	12.07	43	548205	54.445	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	392911	50.312	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	362906m	51.525	ug/l	
77) Bromobenzene	12.53	156	287768	52.567	ug/l	97
78) n-propylbenzene	12.59	91	1447385	55.132	ug/l	100
79) 2-Chlorotoluene	12.68	91	845678	52.632	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1037529	55.601	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	141993	52.518	ug/l	96
82) 4-Chlorotoluene	12.77	91	875231	53.302	ug/l	100
83) tert-Butylbenzene	13.00	119	864873	54.200	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1047852	56.932	ug/l	99
85) sec-Butylbenzene	13.17	105	1190803	55.973	ug/l	98
86) p-Isopropyltoluene	13.29	119	1084107	57.752	ug/l	99
87) 1,3-Dichlorobenzene	13.29	146	526620	53.800	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	521691	53.233	ug/l	99
89) n-Butylbenzene	13.62	91	984832	57.112	ug/l	99
90) Hexachloroethane	13.88	117	199202	52.369	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	519166	53.962	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	80228	45.421	ug/l	95

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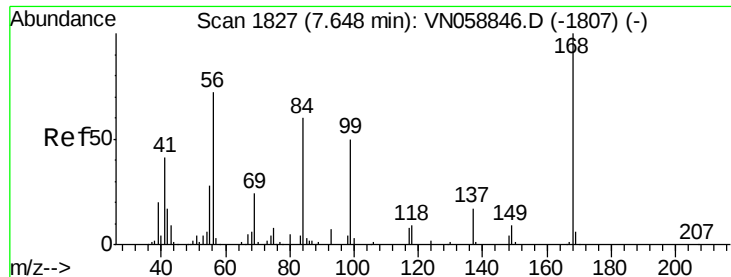
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	306634	50.597	ug/l	99
94) Hexachlorobutadiene	15.01	225	168595	54.066	ug/l	99
95) Naphthalene	15.13	128	829136	47.737	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	294243	49.908	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 424601

Ion Ratio Lower Upper

168 100

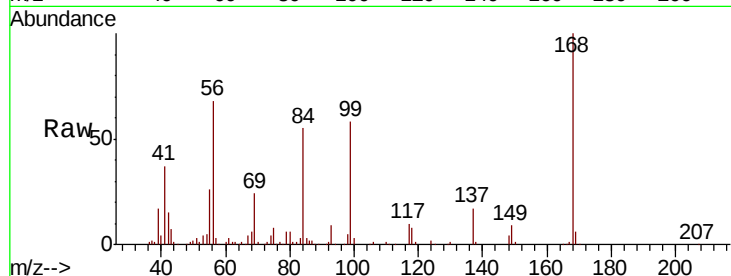
99 57.3 48.1 72.1

Manual Integrations

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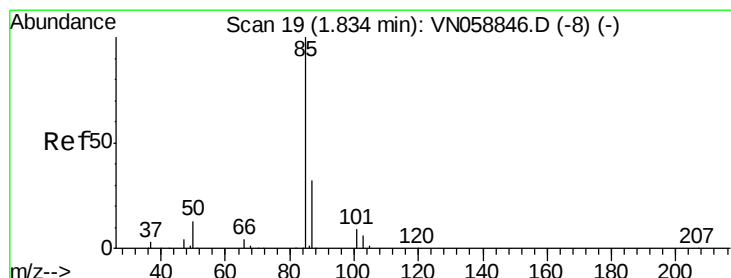
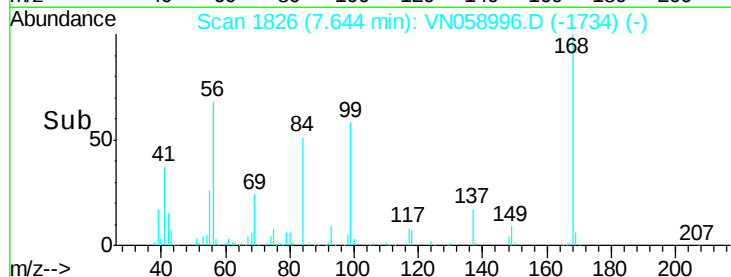
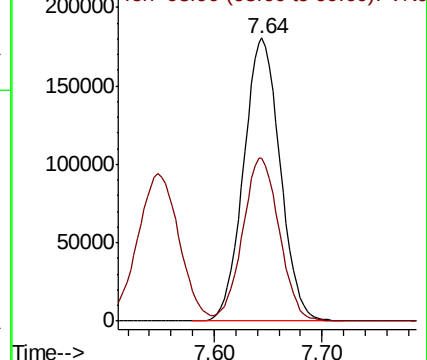
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 43.542 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058996.D

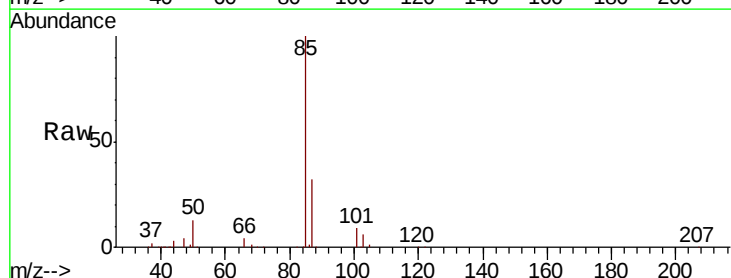
Acq: 29 Oct 2019 9:36

Tgt Ion: 85 Resp: 230509

Ion Ratio Lower Upper

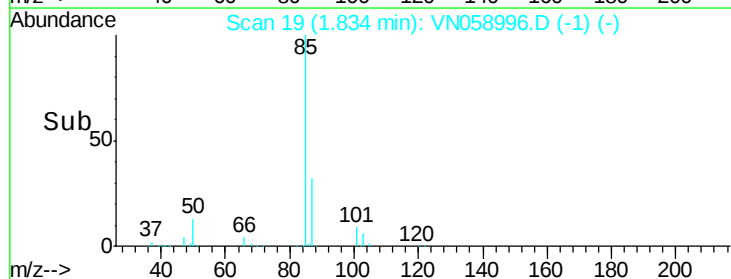
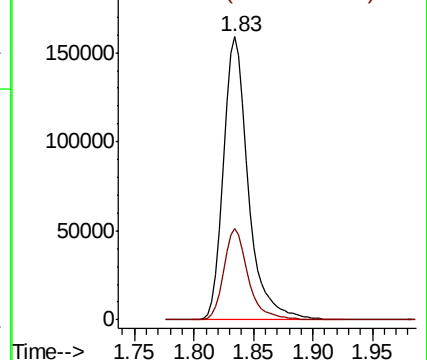
85 100

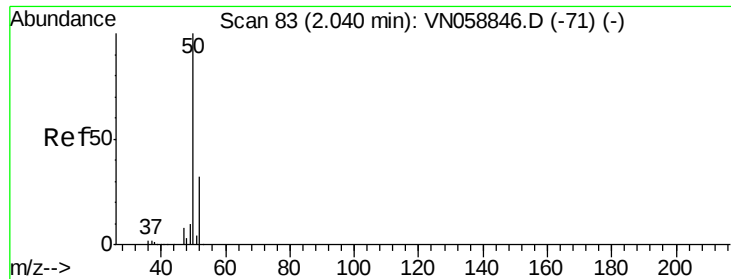
87 32.2 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 44.668 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 292869

Ion Ratio Lower Upper

50 100

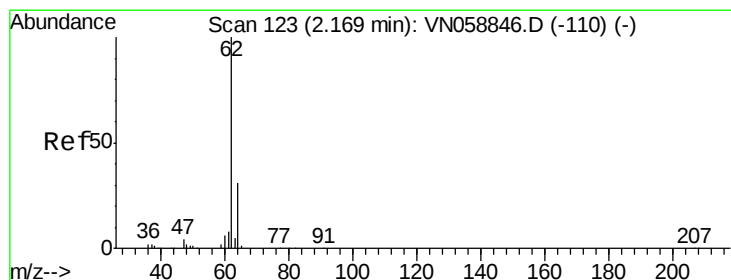
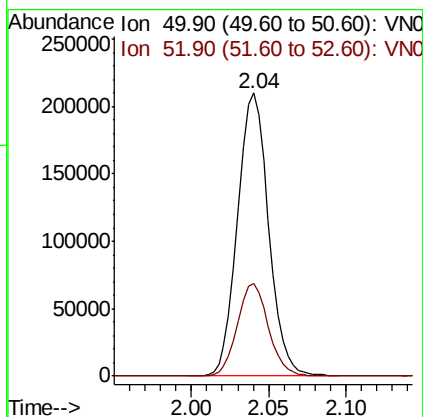
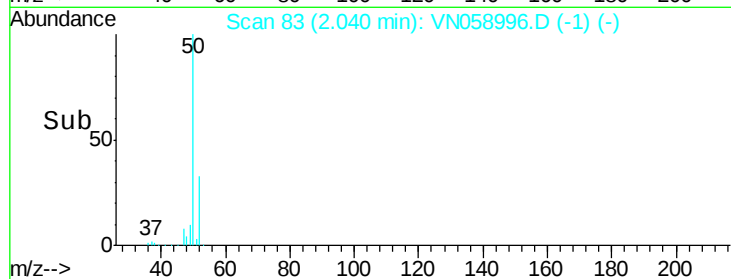
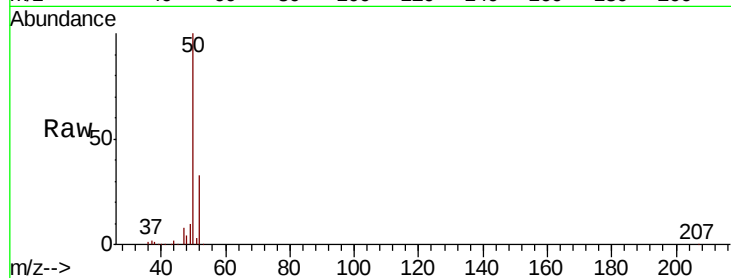
52 32.6 25.7 38.5

Manual Integrations

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10/30/2019 3:53:35 PM



#4

Vinyl Chloride

Concen: 46.682 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058996.D

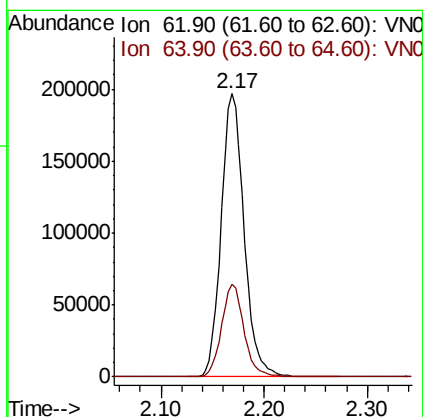
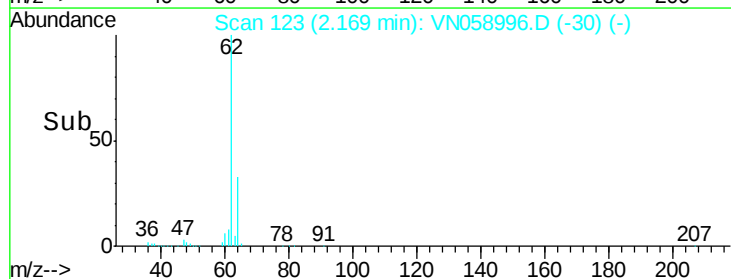
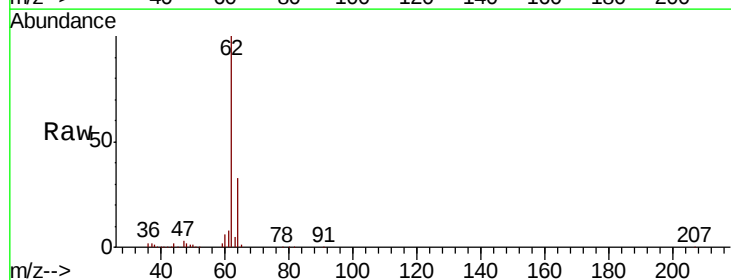
Acq: 29 Oct 2019 9:36

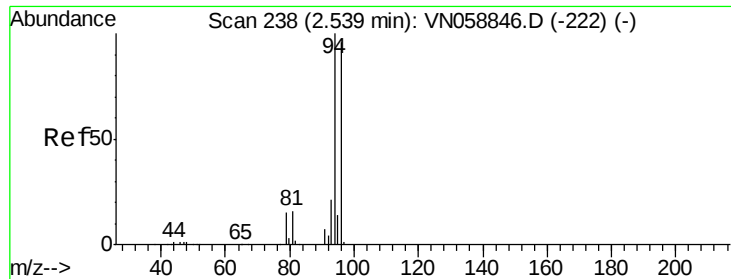
Tgt Ion: 62 Resp: 303904

Ion Ratio Lower Upper

62 100

64 32.6 24.6 36.8





#5

Bromomethane

Concen: 42.202 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

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Tot Ion: 94 Resp: 172046

Ion Ratio Lower Upper

94 100

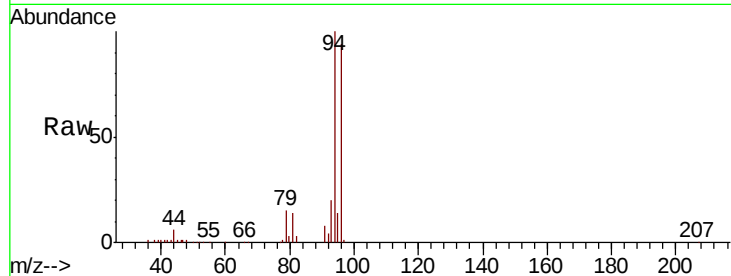
96 94.3 77.0 115.6

Manual Integrations

APPROVED

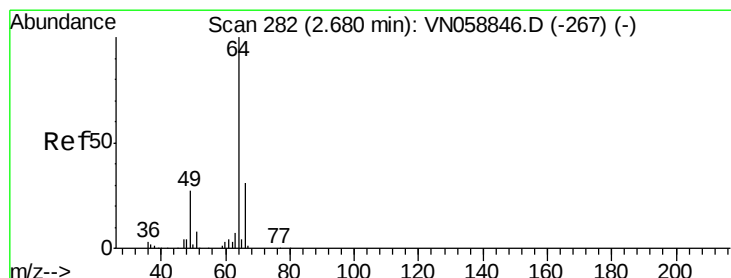
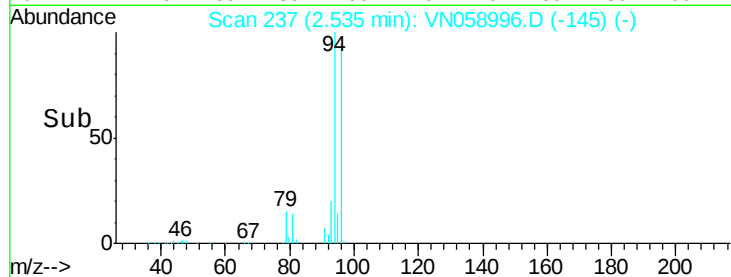
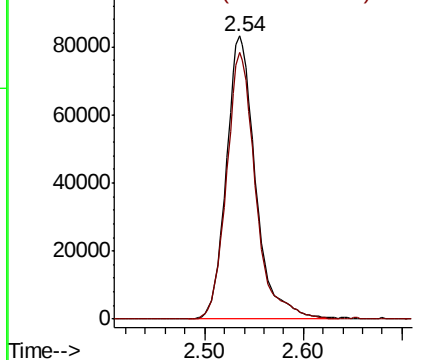
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 43.944 ug/l

RT: 2.68 min Scan# 282

Delta R.T. 0.00 min

Lab File: VN058996.D

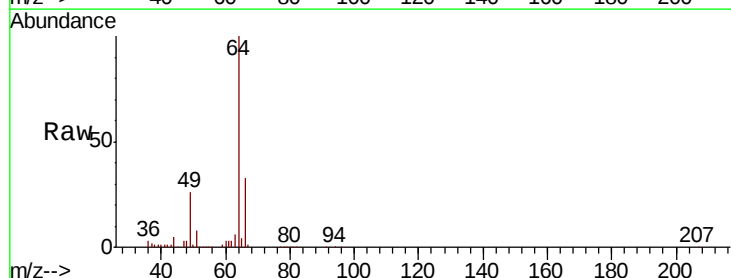
Acq: 29 Oct 2019 9:36

Tgt Ion: 64 Resp: 183458

Ion Ratio Lower Upper

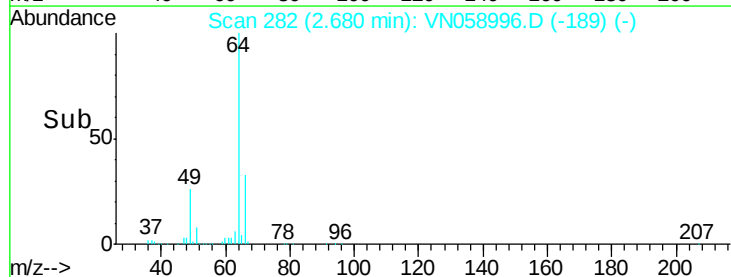
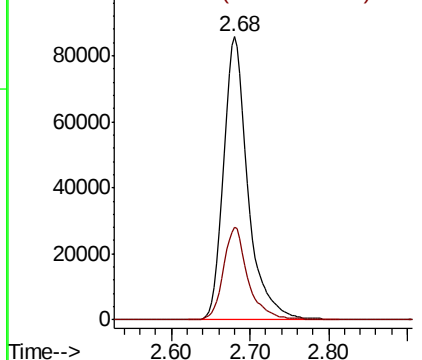
64 100

66 32.8 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

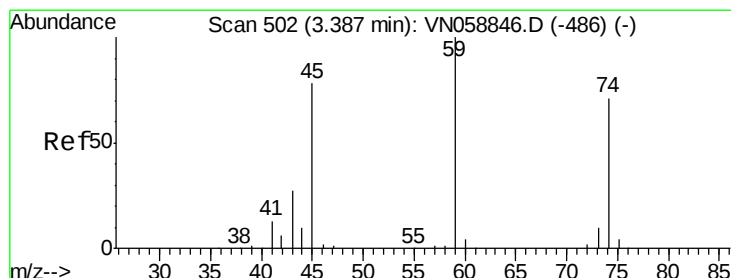
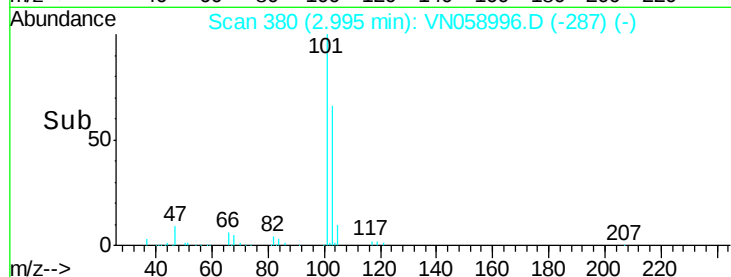
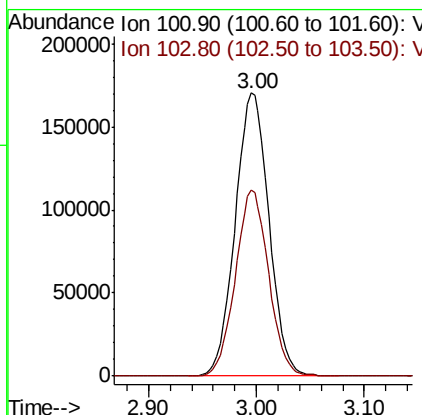
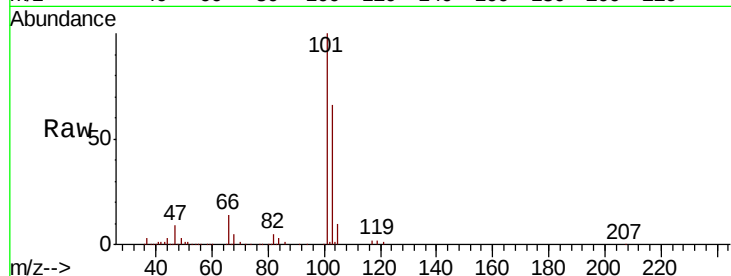
Trichlorofluoromethane
 Concen: 46.086 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.9	52.2	78.2

Manual Integrations
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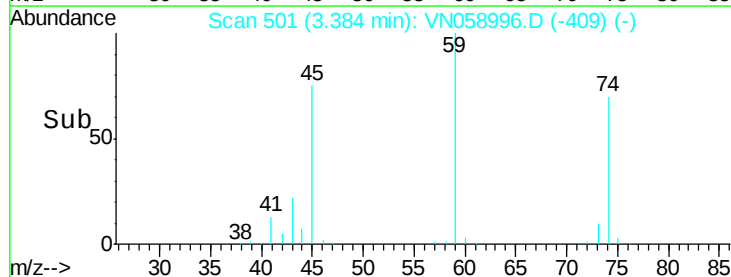
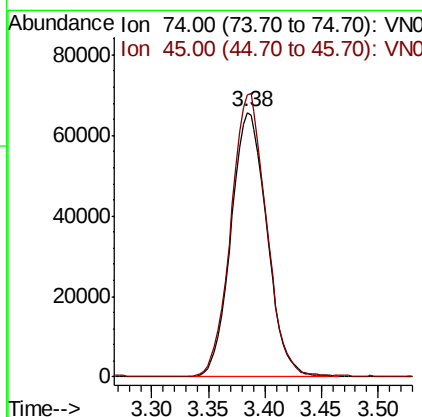
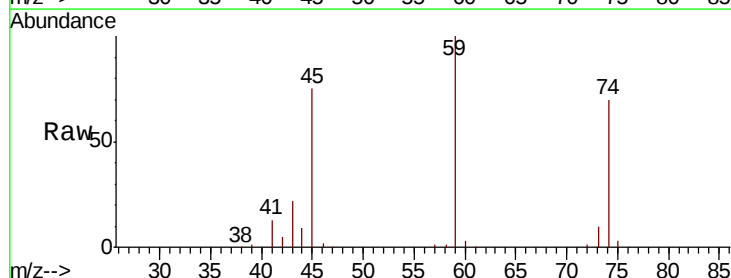
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 10/30/2019 3:53:35 PM

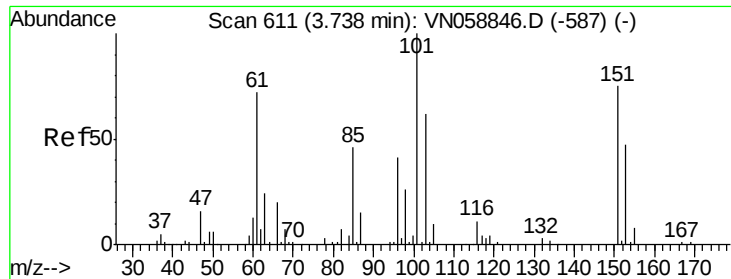


#8

Diethyl Ether
 Concen: 52.220 ug/l
 RT: 3.38 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.0	54.9	164.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.524 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

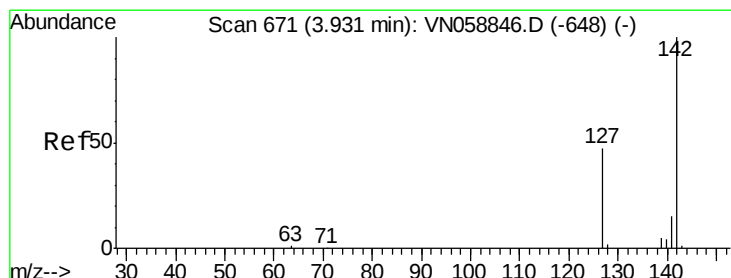
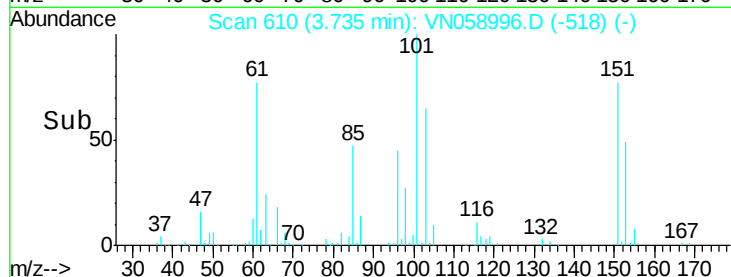
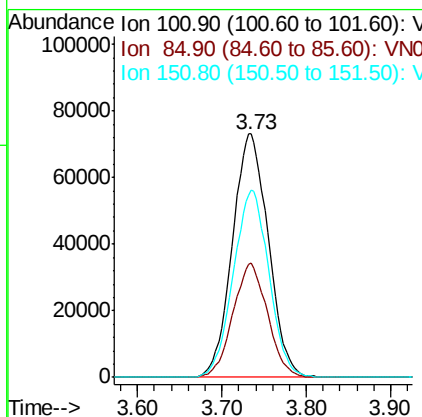
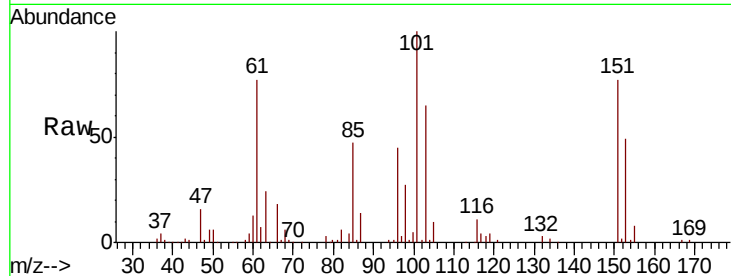
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	216689
Ion Ratio	Lower	Upper	
101	100		
85	45.1	37.2	55.8
151	76.3	59.9	89.9

Manual Integrations
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#10

Methyl Iodide

Concen: 45.271 ug/l

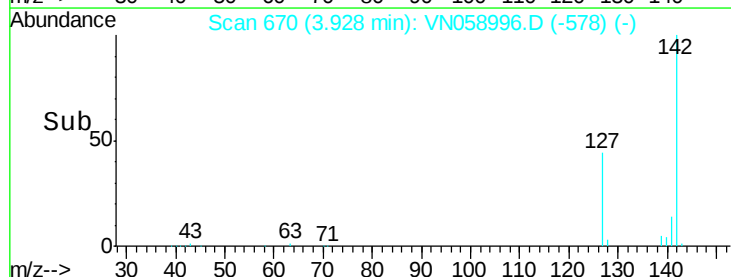
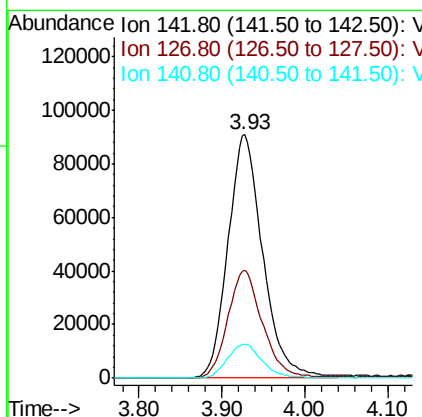
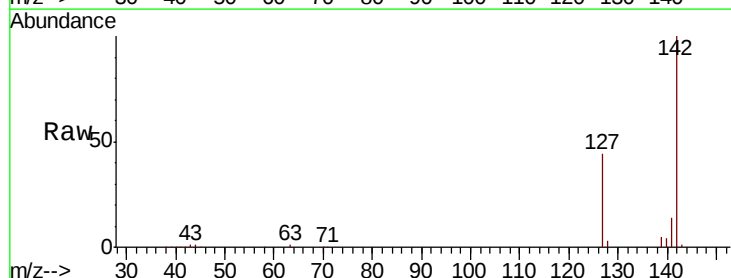
RT: 3.93 min Scan# 670

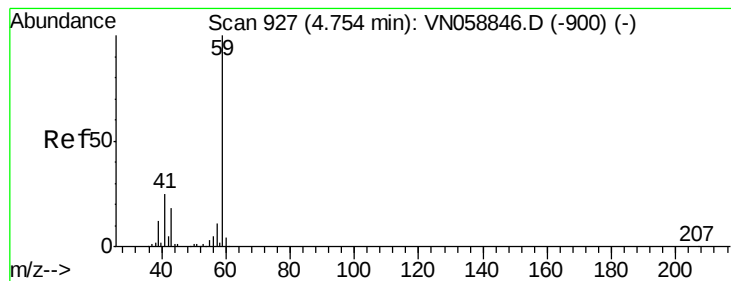
Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Tgt Ion:	142	Resp:	265888
Ion Ratio	Lower	Upper	
142	100		
127	44.0	36.6	54.8
141	14.2	11.4	17.2





#11

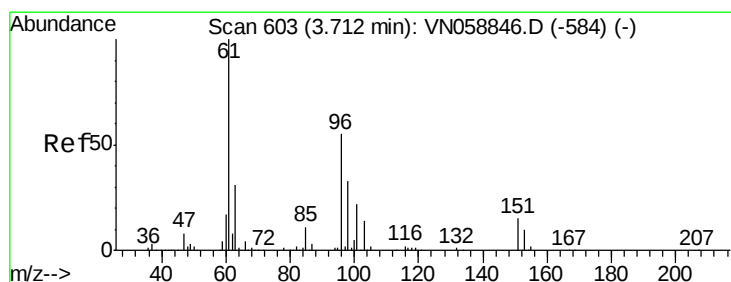
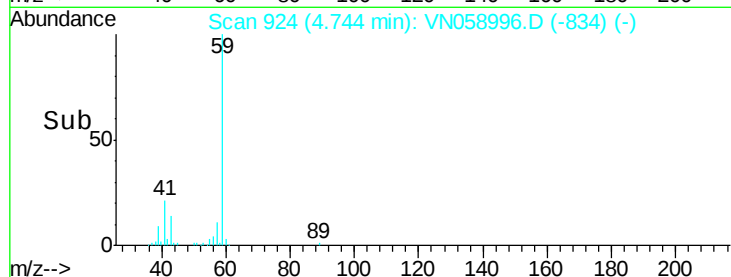
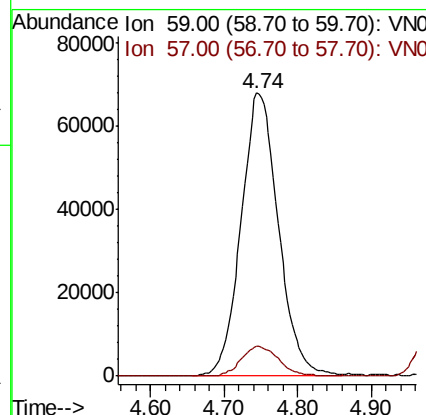
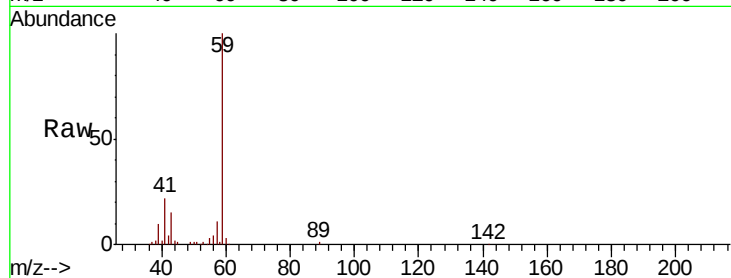
Tert butyl alcohol
Concen: 231.924 ug/l
RT: 4.74 min Scan# 924
Delta R.T. -0.01 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	239674
Ion Ratio	100	Lower	Upper
57	10.6	8.6	12.8

Manual Integrations
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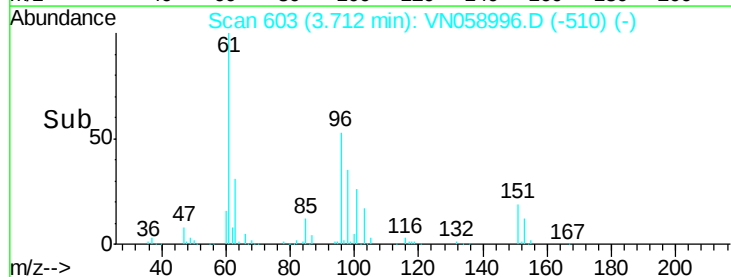
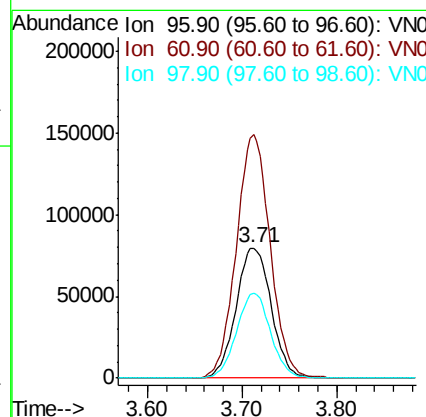
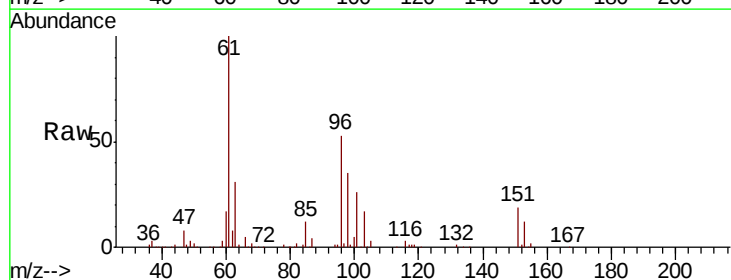
MMDadoda
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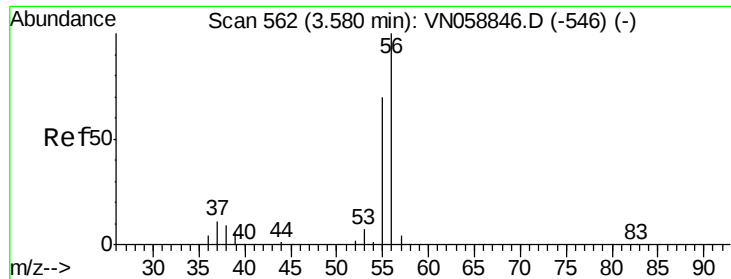


#12

1,1-Dichloroethene
Concen: 49.123 ug/l
RT: 3.71 min Scan# 603
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	96	Resp	205619
Ion Ratio	100	Lower	Upper
61	187.2	146.2	219.2
98	65.7	48.7	73.1





#13

Acrolein

Concen: 239.673 ug/l

RT: 3.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 170184

Ion Ratio Lower Upper

56 100

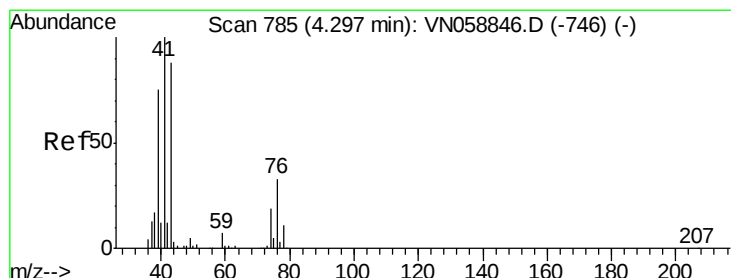
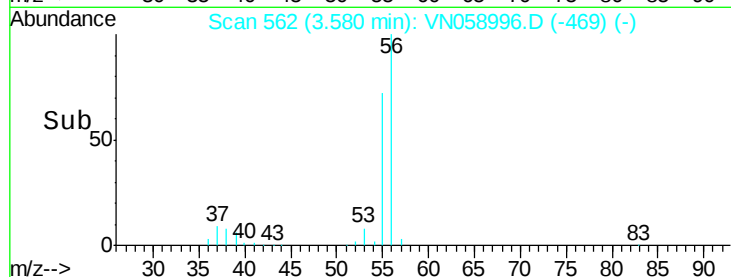
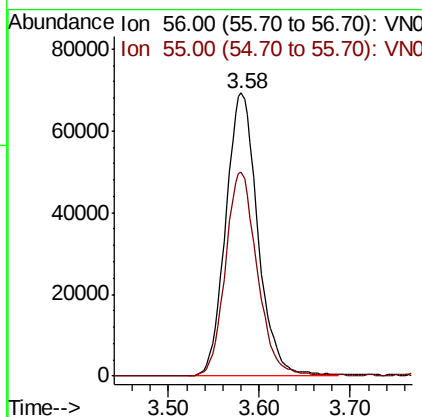
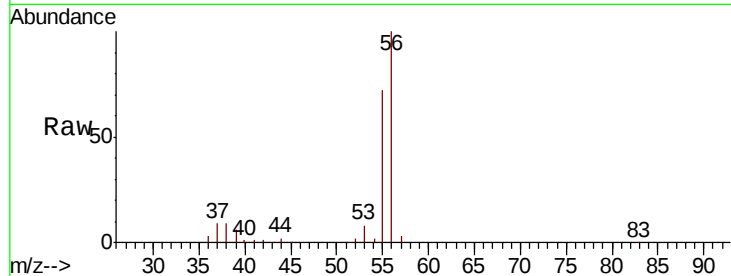
55 71.5 56.6 85.0

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 51.241 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

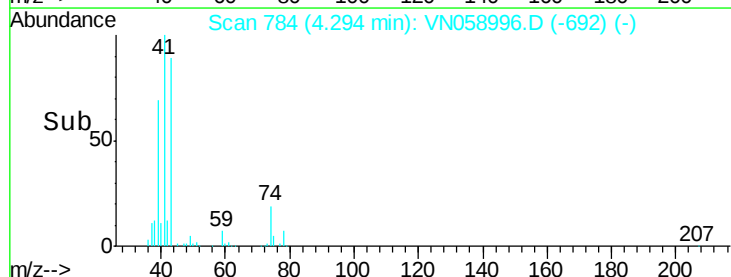
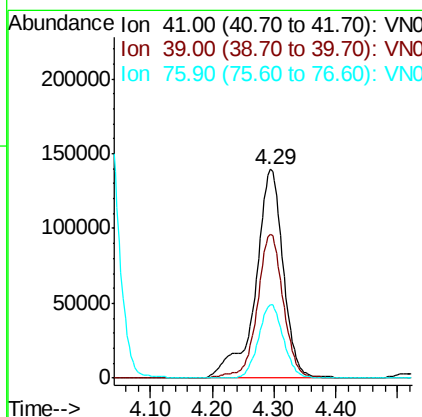
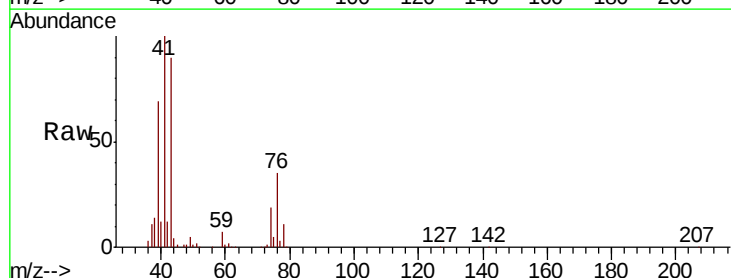
Tgt Ion: 41 Resp: 434007

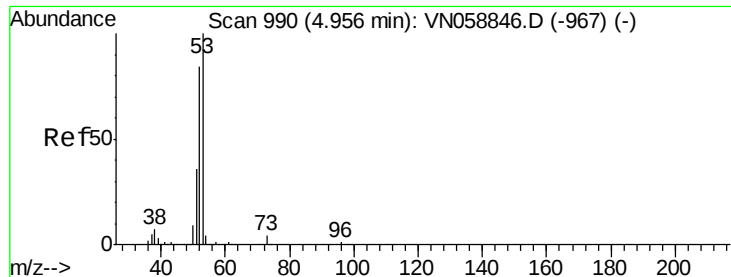
Ion Ratio Lower Upper

41 100

39 64.9 55.9 83.9

76 31.5 24.1 36.1





#15

Acrylonitrile

Concen: 258.457 ug/l

RT: 4.95 min Scan# 988

Delta R.T. -0.01 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

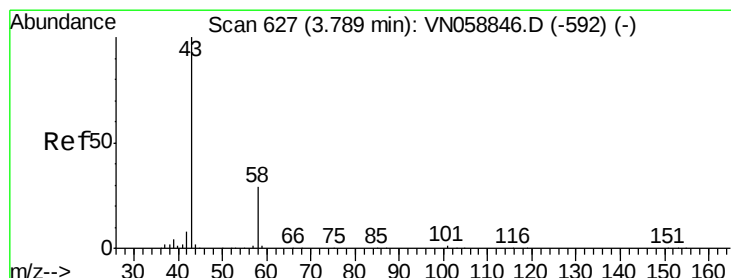
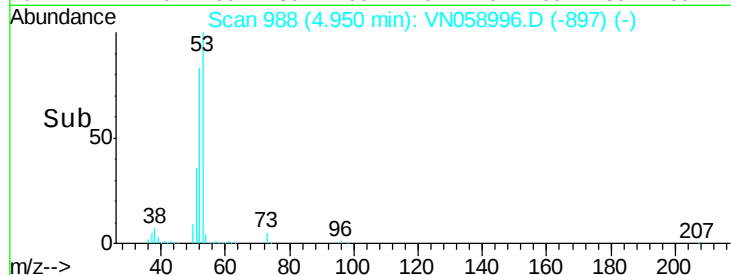
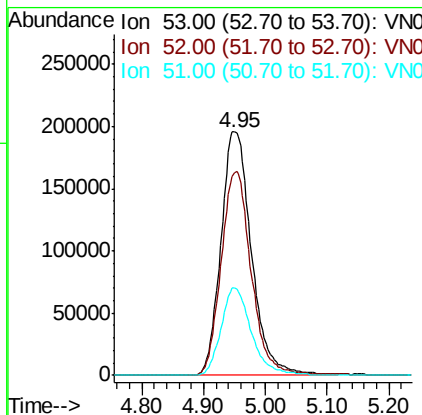
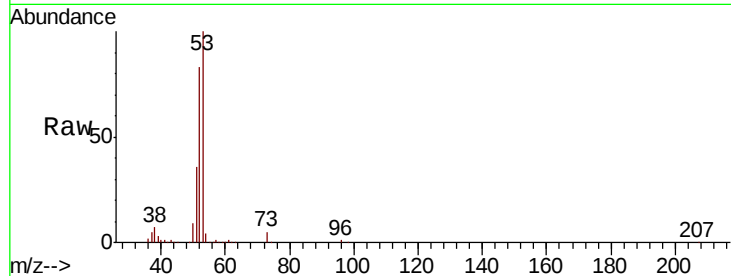
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	671850
Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.6	99.8
51	35.8	29.2	43.8

Manual Integrations
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#16

Acetone

Concen: 256.264 ug/l

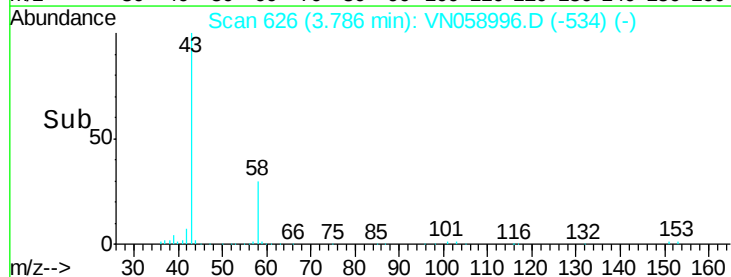
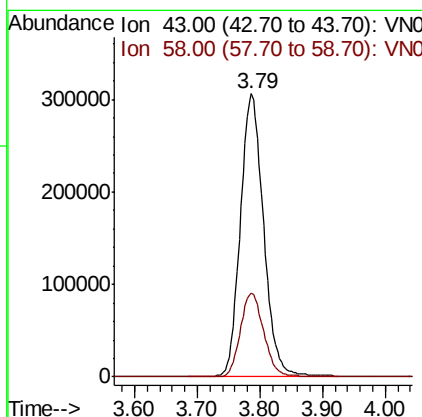
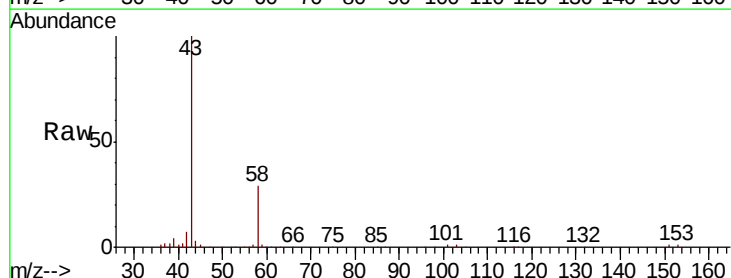
RT: 3.79 min Scan# 626

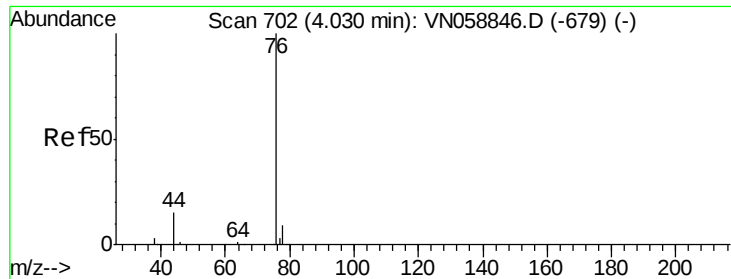
Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Tgt Ion:	43	Resp:	788582
Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.1	34.7





#17

Carbon Disulfide

Concen: 43.397 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 585148

Ion Ratio Lower Upper

76 100

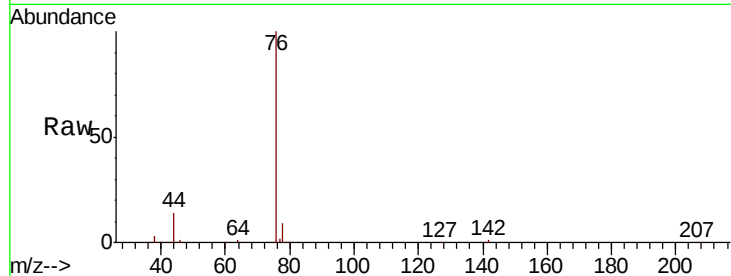
78 9.2 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

250000

200000

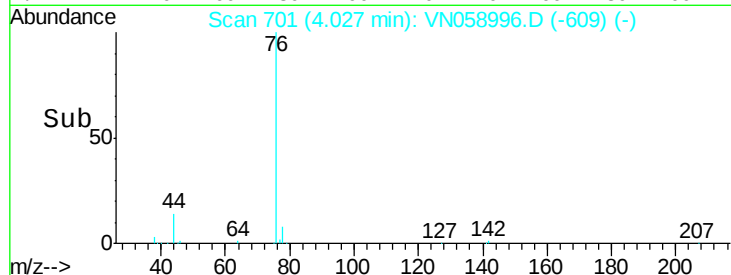
150000

100000

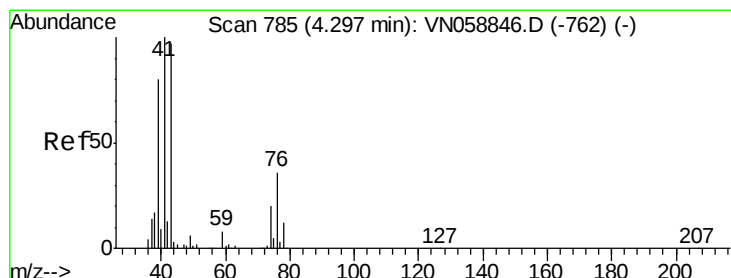
50000

0

Time-->



Time-->



#18

Methyl Acetate

Concen: 50.989 ug/l

RT: 4.29 min Scan# 783

Delta R.T. -0.01 min

Lab File: VN058996.D

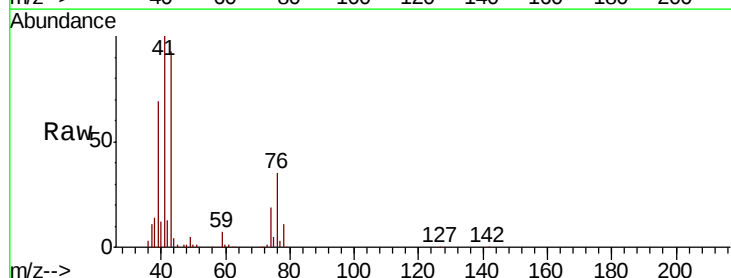
Acq: 29 Oct 2019 9:36

Tgt Ion: 43 Resp: 356728

Ion Ratio Lower Upper

43 100

74 21.4 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

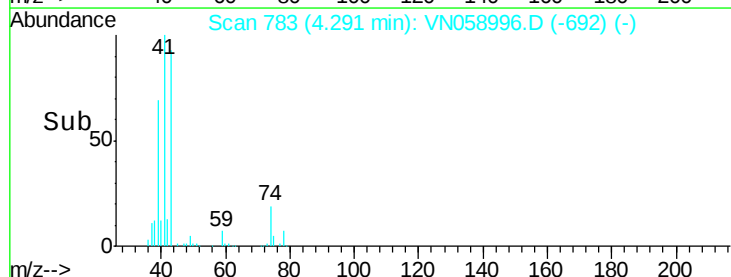
150000

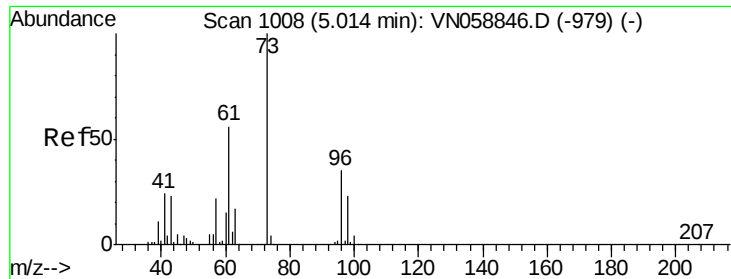
100000

50000

0

Time-->





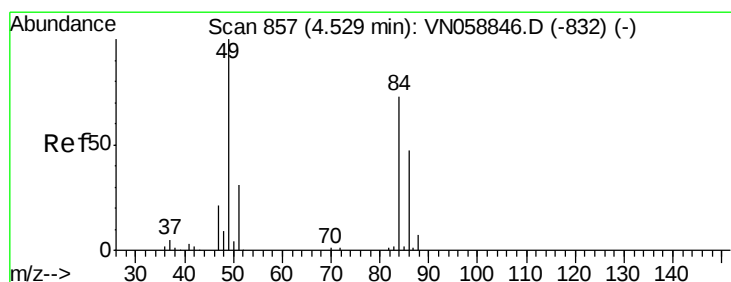
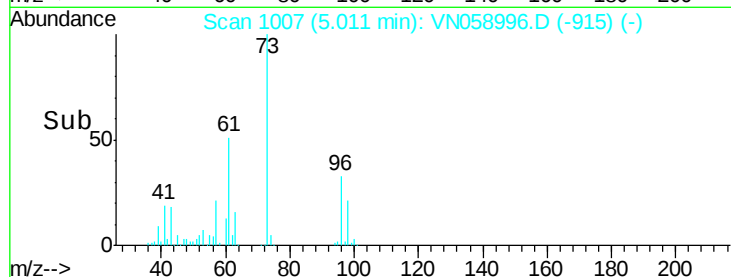
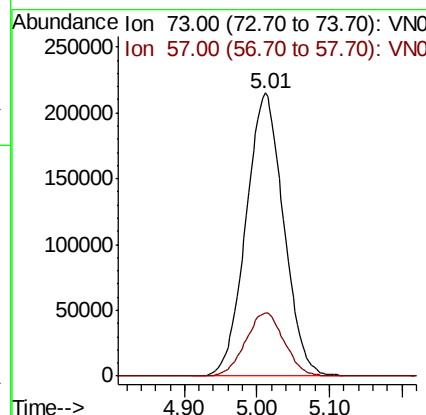
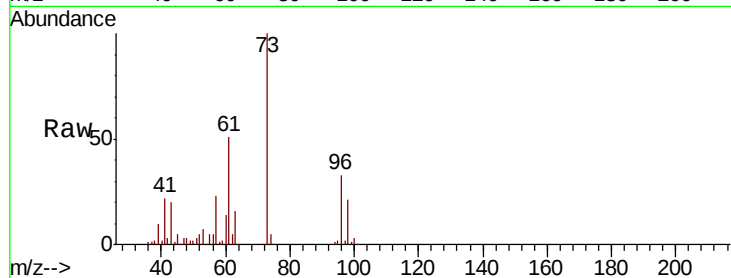
#19
Methvl tert-butvl Ether
Concen: 53.014 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 777011
Ion Ratio Lower Upper
73 100
57 22.5 17.9 26.9

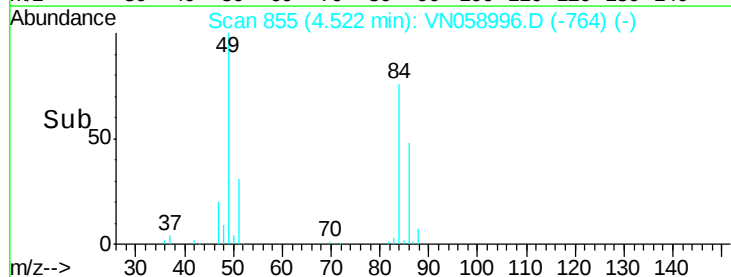
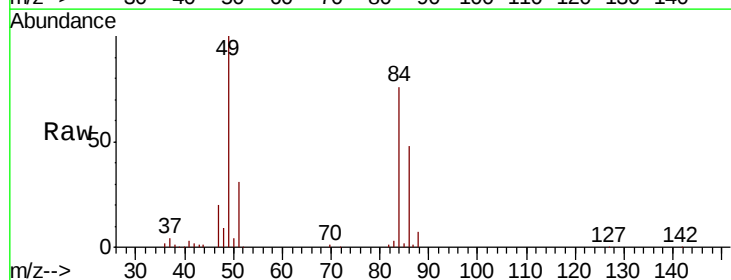
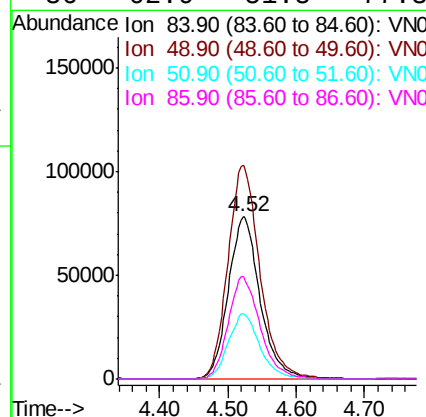
Manual Integrations
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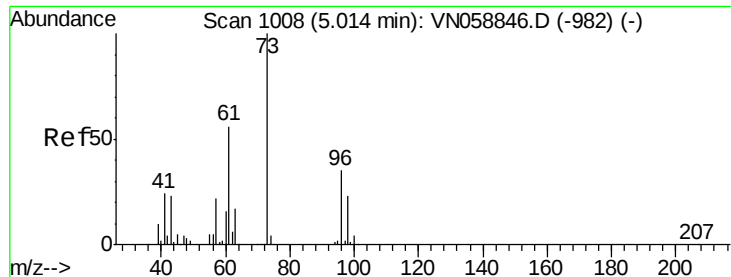
MMDadoda
10/30/2019 3:53:35 PM



#20
Methylene Chloride
Concen: 48.012 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.01 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion: 84 Resp: 252279
Ion Ratio Lower Upper
84 100
49 131.5 109.6 164.4
51 40.5 33.8 50.6
86 62.9 51.5 77.3





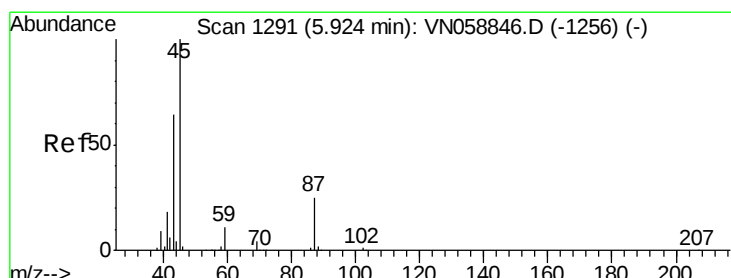
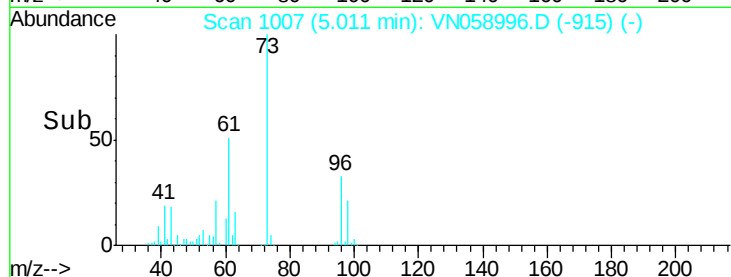
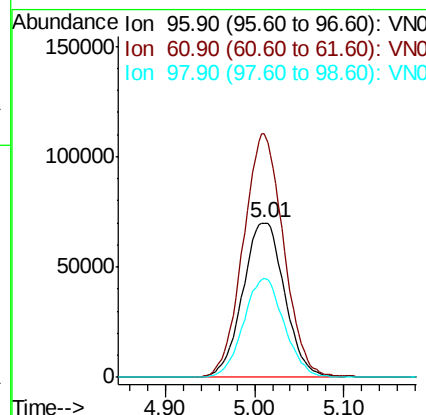
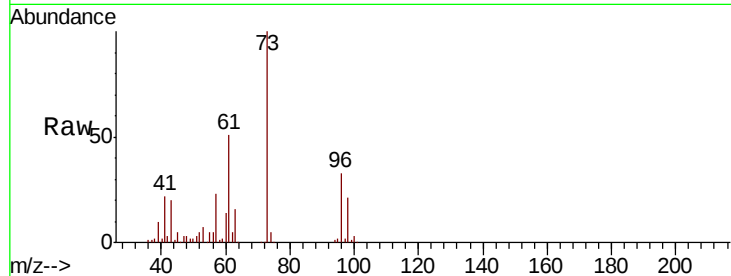
#21
trans-1,2-Dichloroethene
Concen: 49.518 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	157.5	126.7	190.1
98	64.0	52.0	78.0

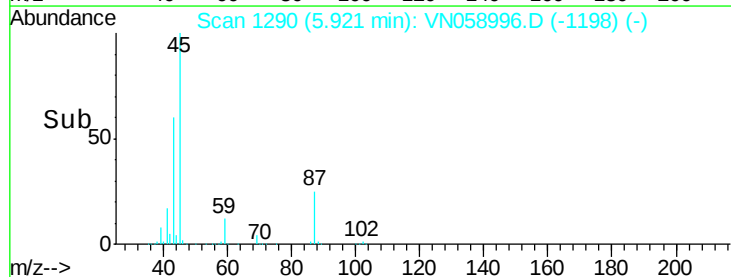
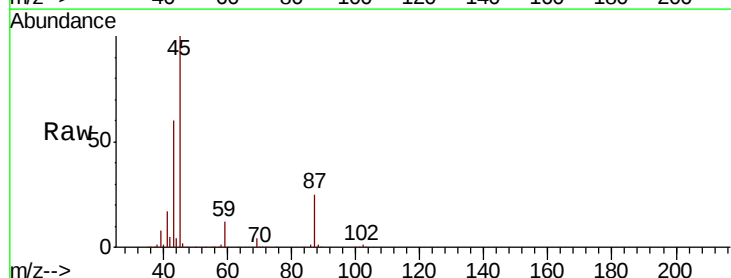
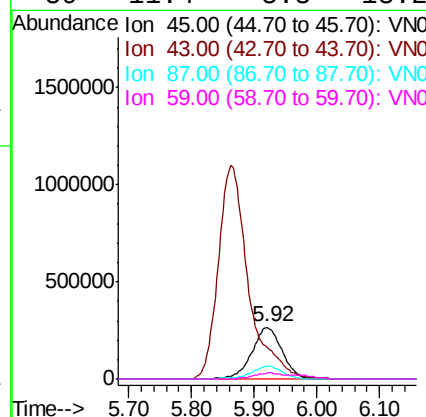
Manual Integrations
APPROVED

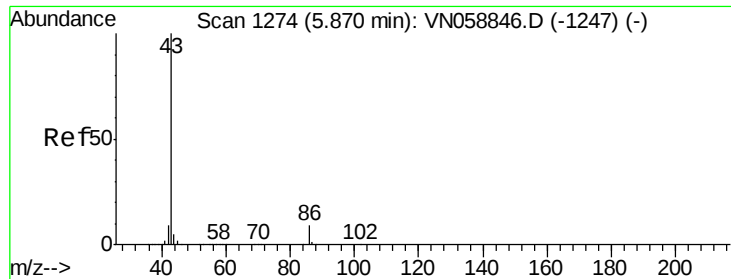
MMDadoda
10/30/2019 3:53:35 PM



#22
Diisopropyl ether
Concen: 53.705 ug/l
RT: 5.92 min Scan# 1290
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.5	52.9	79.3
87	24.4	20.2	30.4
59	11.4	8.8	13.2





#23

Vinyl Acetate

Concen: 275.535 ug/l

RT: 5.86 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3667512

Ion Ratio Lower Upper

43 100

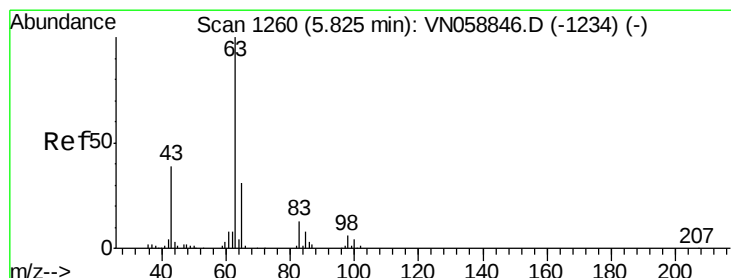
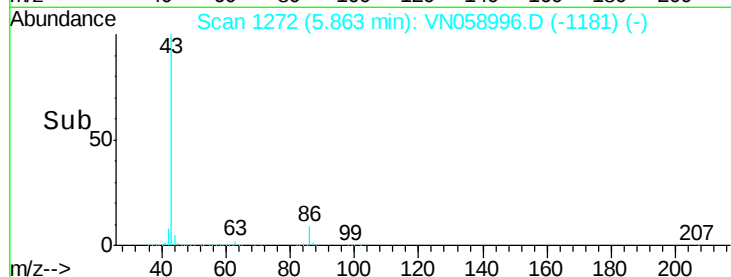
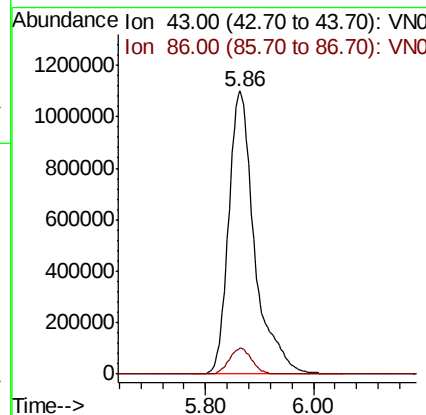
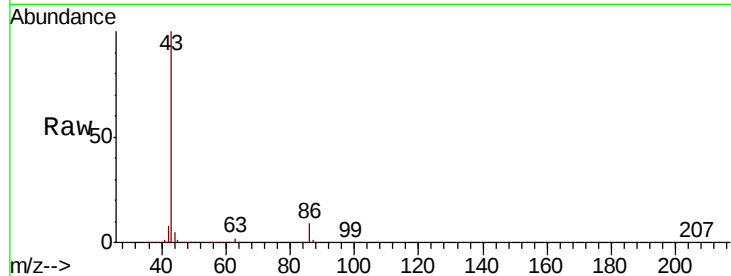
86 9.3 7.2 10.8

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 49.614 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. -0.01 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

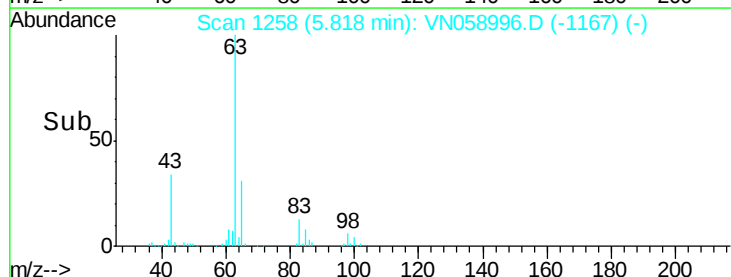
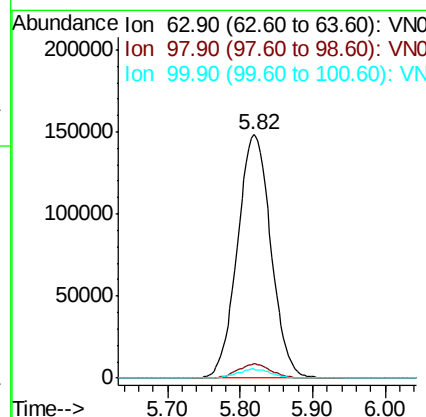
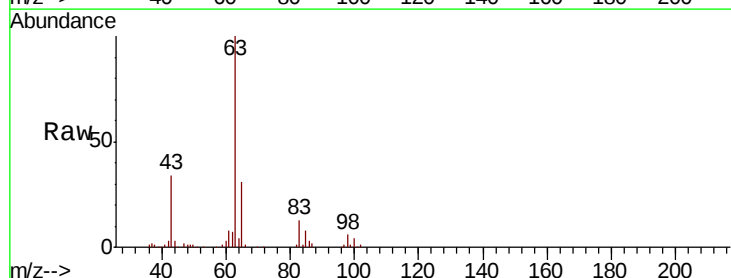
Tgt Ion: 63 Resp: 476615

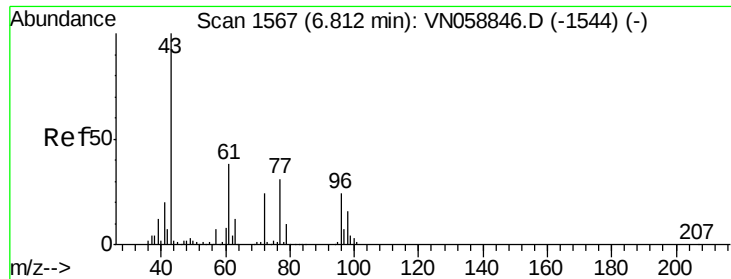
Ion Ratio Lower Upper

63 100

98 5.7 2.8 8.4

100 3.6 1.9 5.7





#25

2-Butanone

Concen: 248.712 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 993498

Ion Ratio Lower Upper

43 100

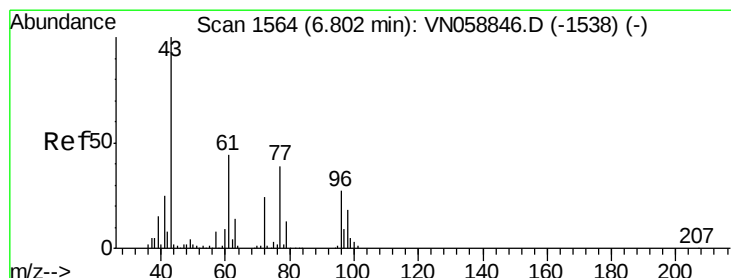
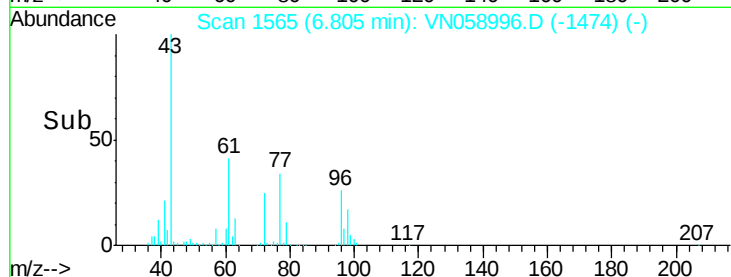
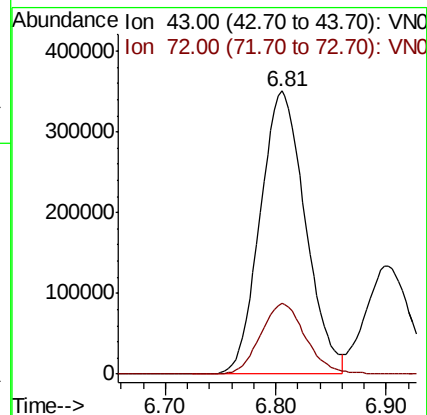
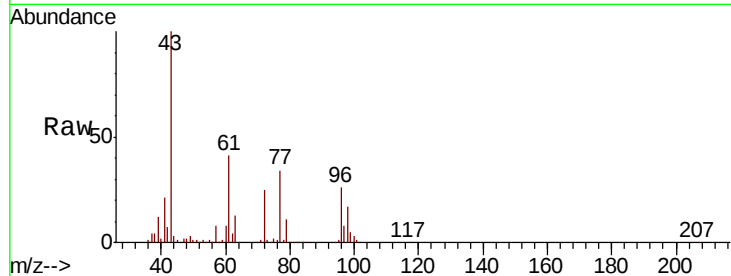
72 24.9 19.1 28.7

Manual Integrations

APPROVED

MMDadoda

10/30/2019 3:53:35 PM



#26

2,2-Dichloropropane

Concen: 49.516 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VN058996.D

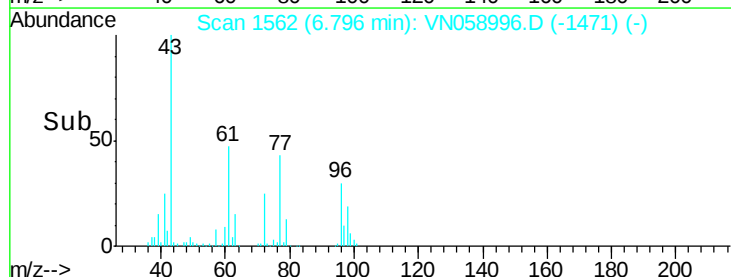
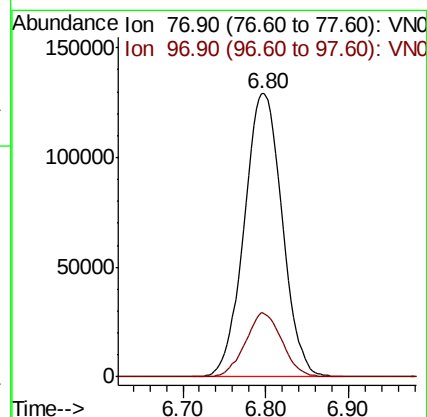
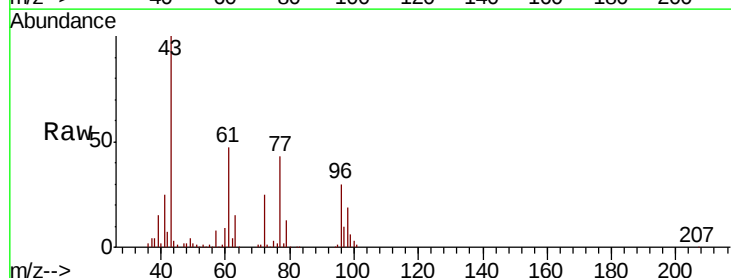
Acq: 29 Oct 2019 9:36

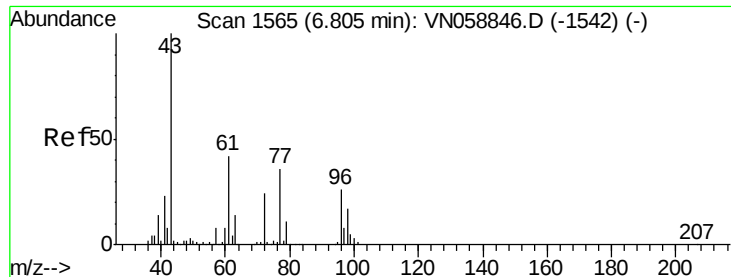
Tgt Ion: 77 Resp: 411440

Ion Ratio Lower Upper

77 100

97 21.9 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 51.001 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

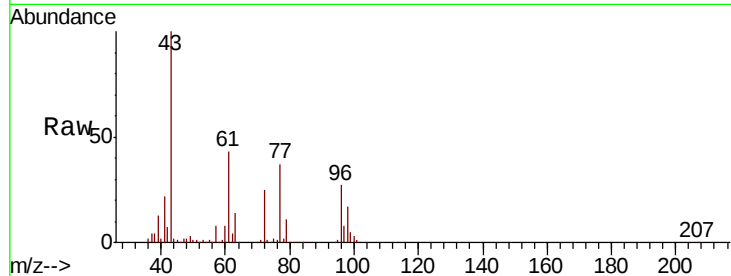
ClientSampleId :

VSTDCCC050

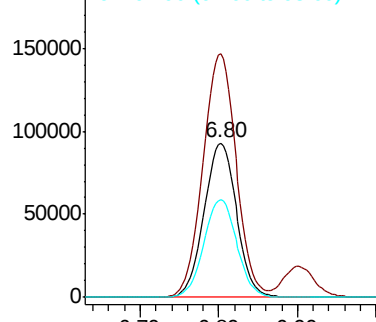
Tot Ion:	96	Resp:	269317
Ion Ratio	Lower	Upper	
96	100		
61	160.7	0.0	325.0
98	64.3	0.0	128.0

Manual Integrations
APPROVED

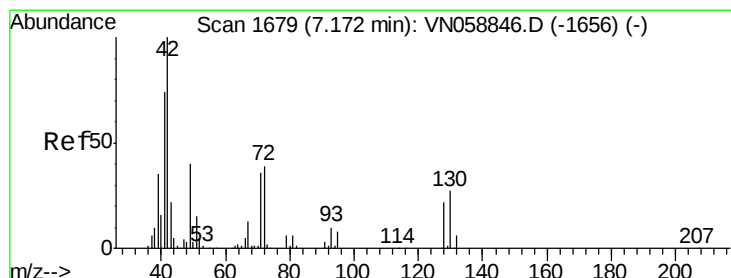
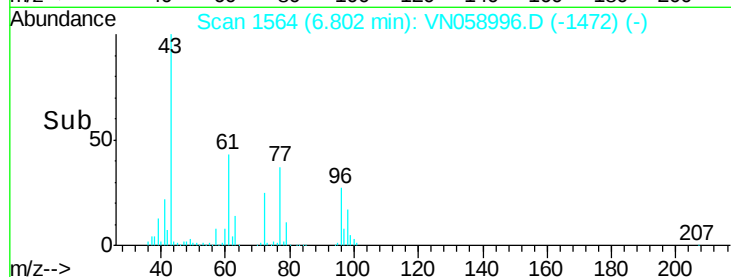
MMDadoda
10/30/2019 3:53:35 PM



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



Time-->



#28

Bromochloromethane

Concen: 50.156 ug/l

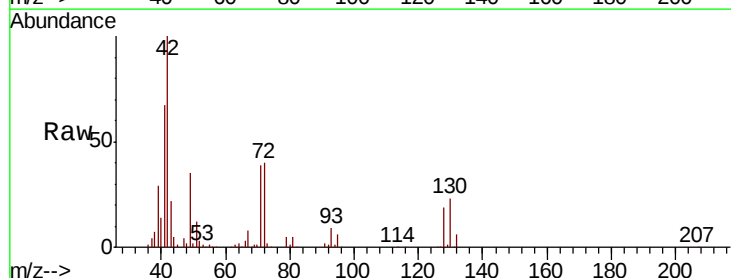
RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

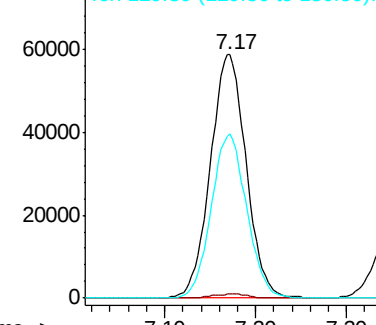
Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

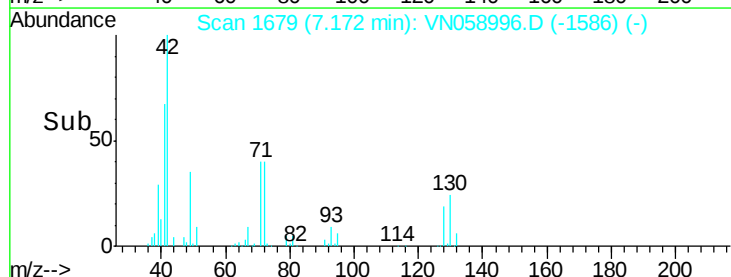
Tgt Ion:	49	Resp:	160463
Ion Ratio	Lower	Upper	
49	100		
129	1.5	0.0	3.2
130	66.6	53.5	80.3



Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



Time-->





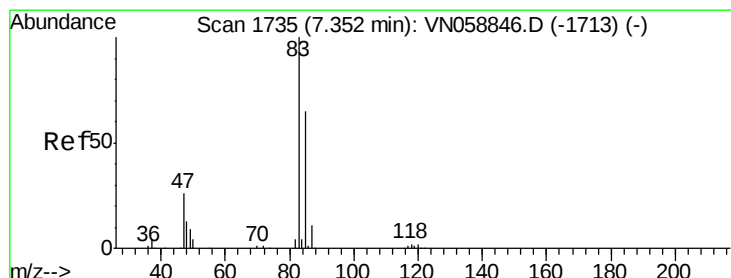
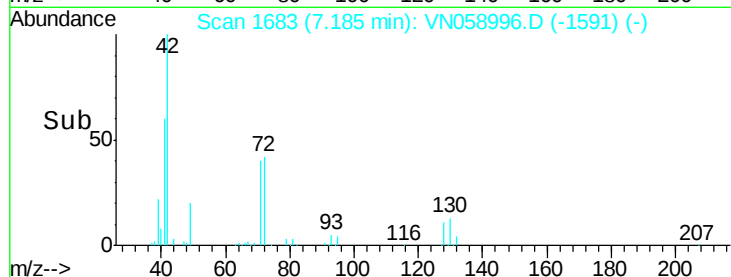
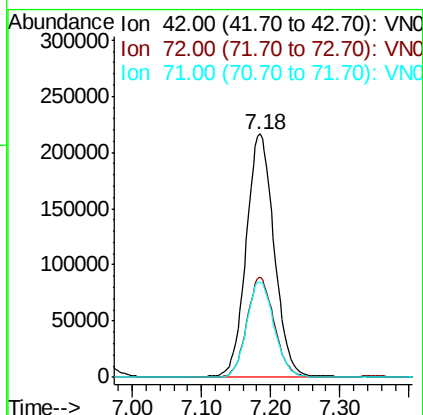
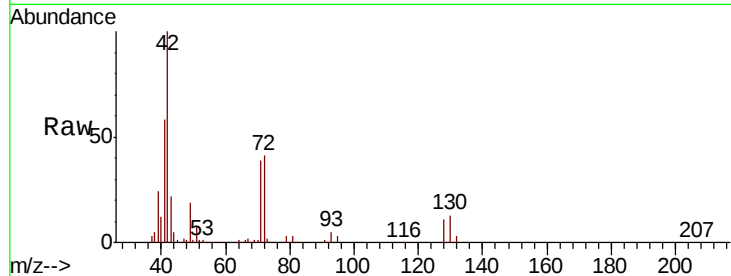
#29
Tetrahydrofuran
Concen: 247.606 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.2	48.2
71	38.7	30.6	45.8

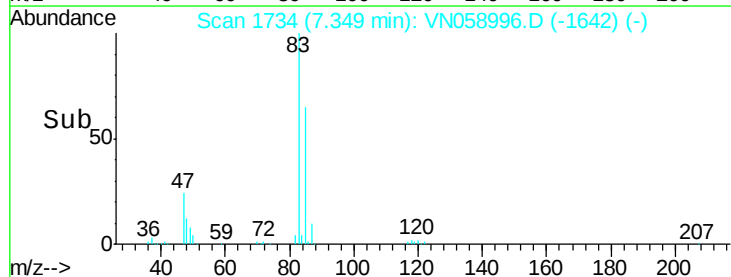
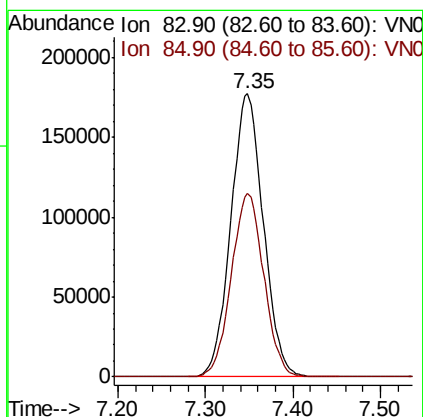
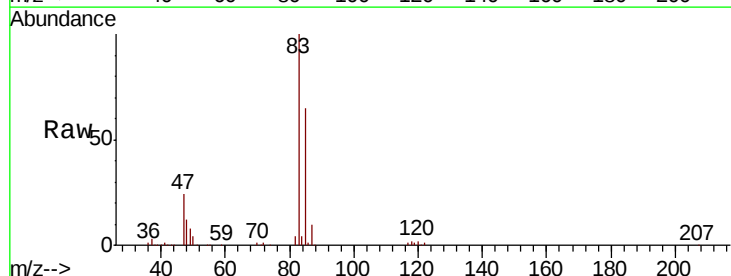
Manual Integrations
APPROVED

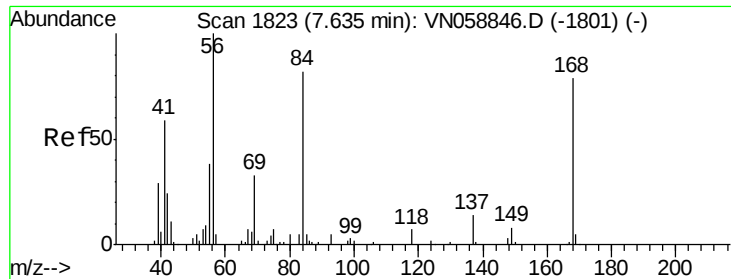
MMDadoda
10/30/2019 3:53:35 PM



#30
Chloroform
Concen: 47.409 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.9	77.9





#31

Cyclohexane

Concen: 46.220 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

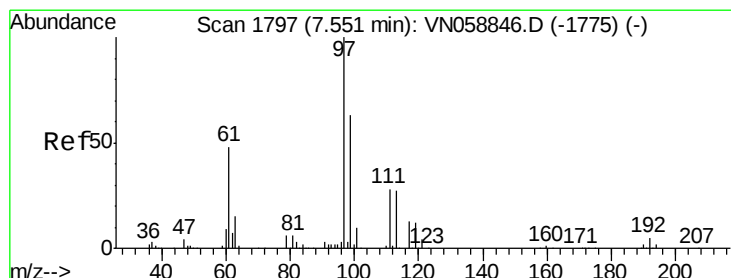
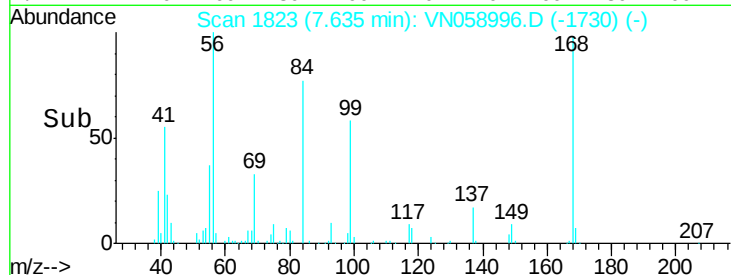
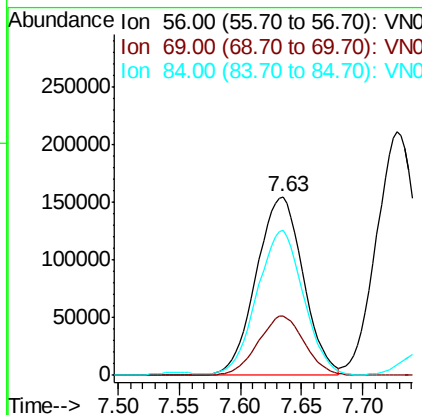
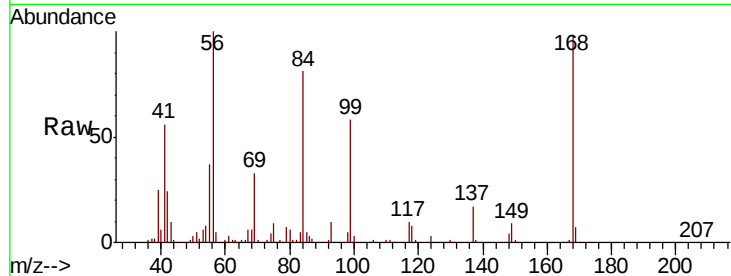
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	413640
Ion	Ratio	Lower	Upper
56	100		
69	33.0	26.2	39.4
84	79.4	65.6	98.4

Manual Integrations
APPROVED

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#32

1,1,1-Trichloroethane

Concen: 48.582 ug/l

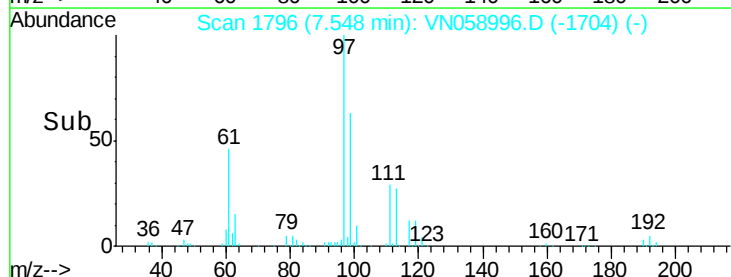
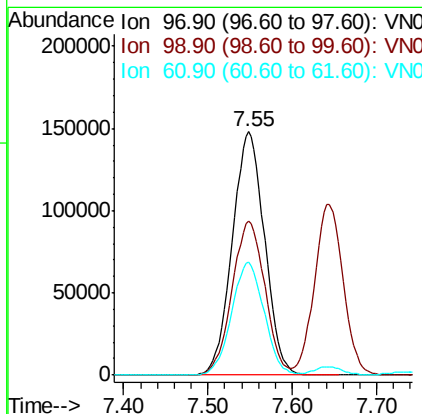
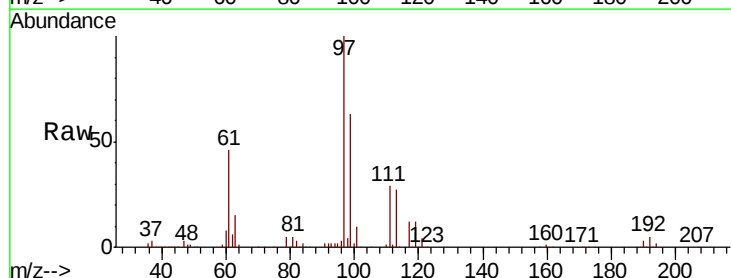
RT: 7.55 min Scan# 1796

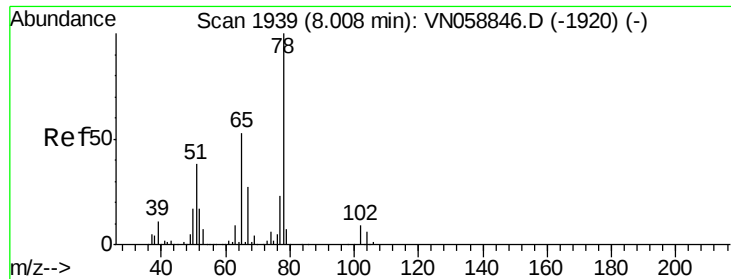
Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Tgt Ion:	97	Resp:	394597
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.0	76.4
61	46.5	38.6	58.0





#33

1,2-Dichloroethane-d4

Concen: 44.047 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 274297

Ion Ratio Lower Upper

65 100

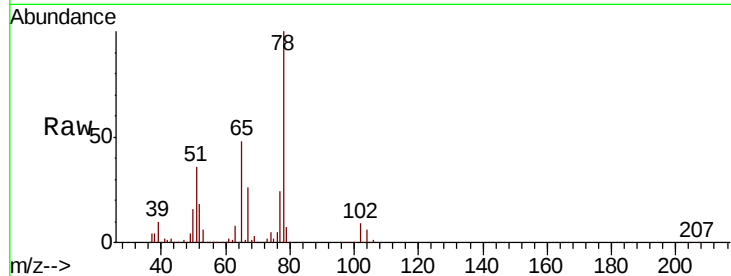
67 53.2 0.0 103.2

Manual Integrations

APPROVED

MMDadoda

10/30/2019 3:53:35 PM



Abundance Ion 64.90 (64.60 to 65.60): VN058846.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN058846.D (-1920) (-)

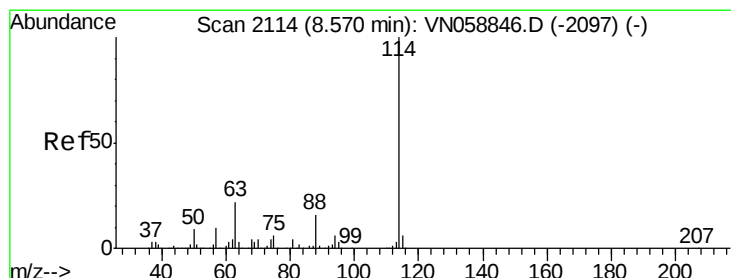
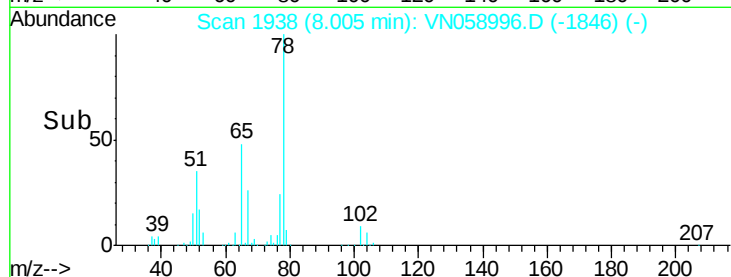
8.00

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

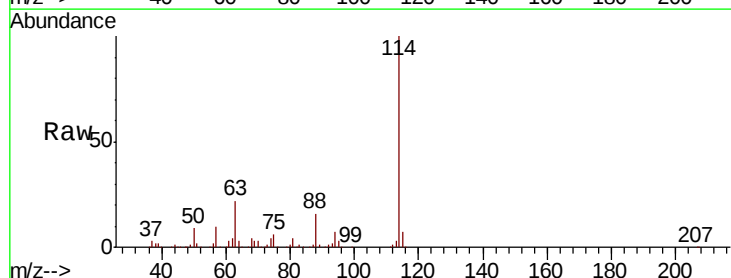
Tgt Ion: 114 Resp: 664786

Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.4

88 16.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN058846.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN058846.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN058846.D (-2097) (-)

8.57

400000

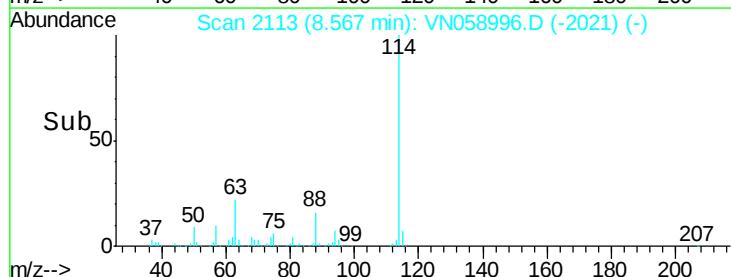
300000

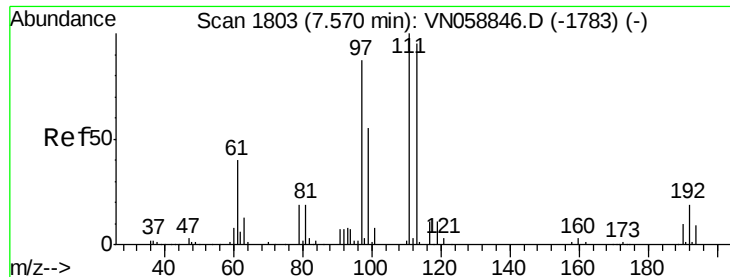
200000

100000

0

Time-->





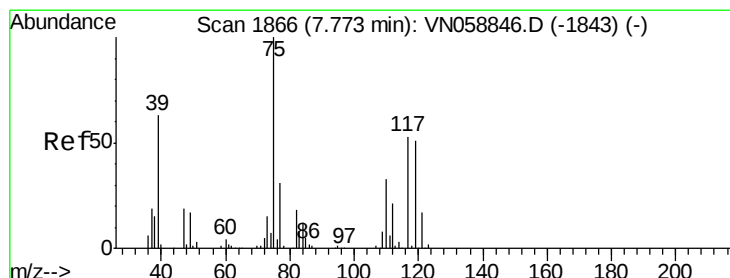
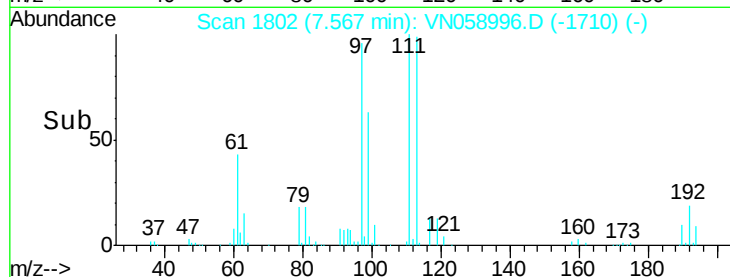
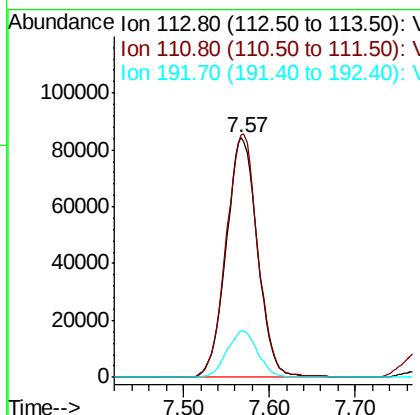
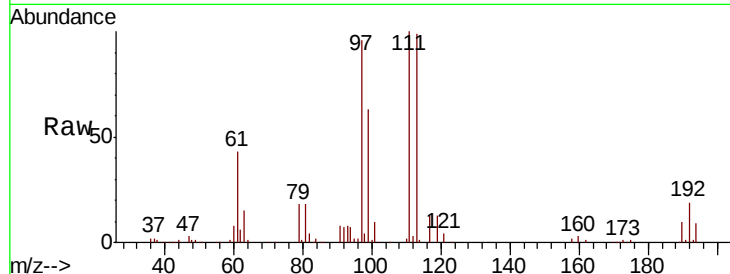
#35
Dibromofluoromethane
Concen: 48.779 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	213201		
111	102.0	82.0	123.0	
192	19.0	15.0	22.6	

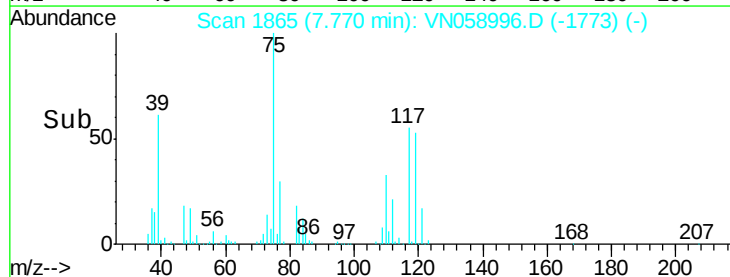
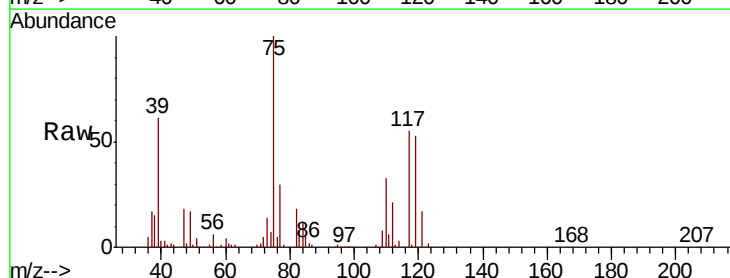
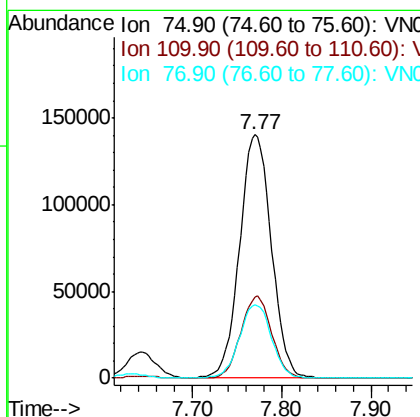
Manual Integrations
APPROVED

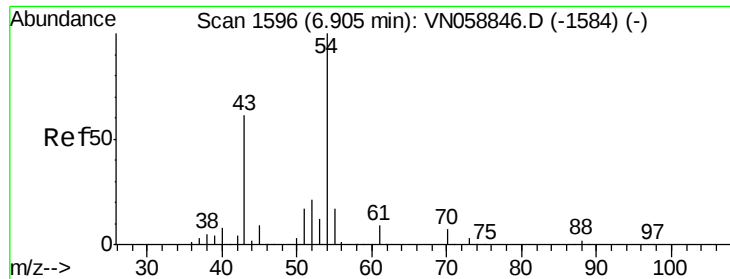
MMDadoda
10/30/2019 3:53:35 PM



#36
1,1-Dichloropropene
Concen: 50.678 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	344919		
110	32.7	16.3	48.9	
77	30.8	24.6	36.8	





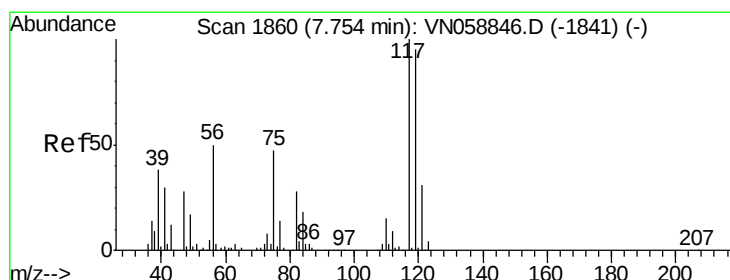
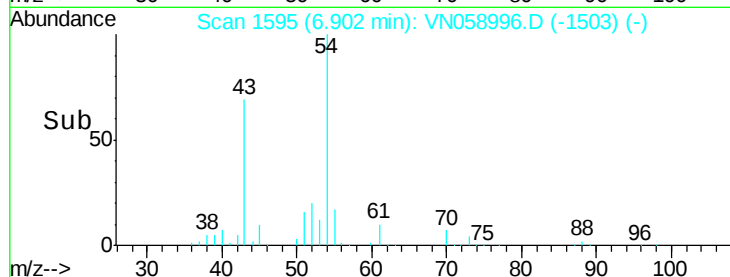
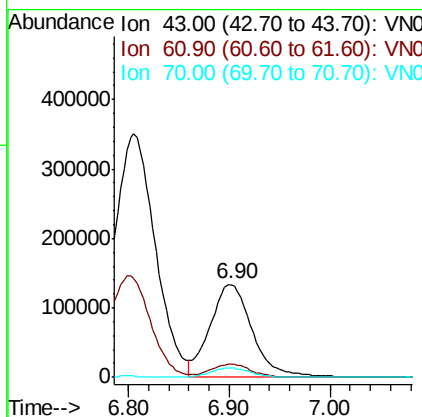
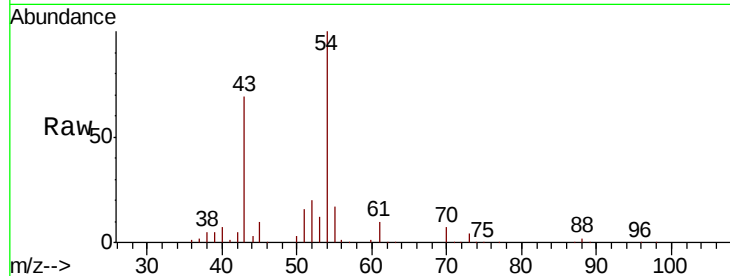
#37
Ethyl Acetate
Concen: 51.545 ug/l
RT: 6.90 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.5	15.7
70	10.0	7.6	11.4

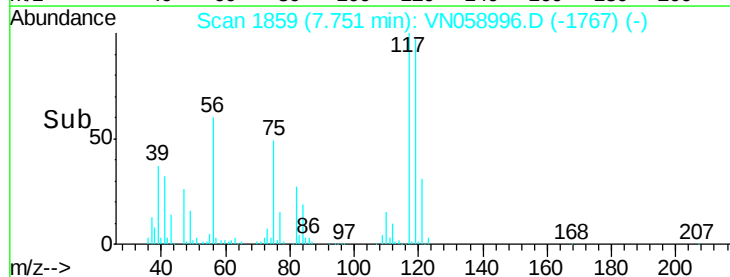
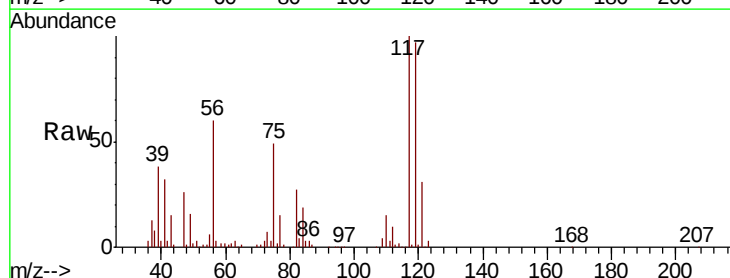
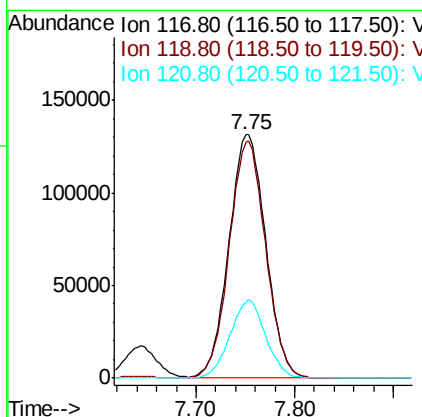
Manual Integrations
APPROVED

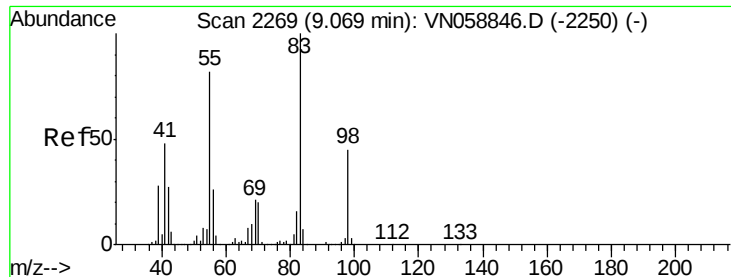
MMDadoda
10/30/2019 3:53:35 PM



#38
Carbon Tetrachloride
Concen: 48.492 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.7	113.5
121	31.4	25.0	37.6





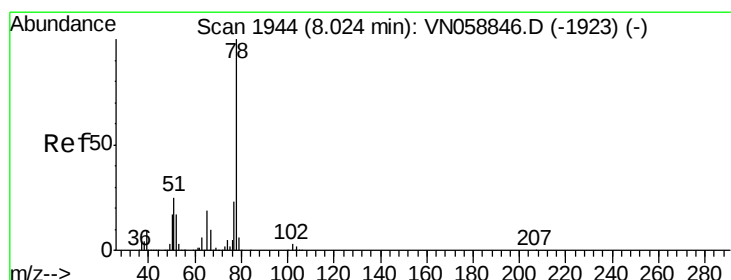
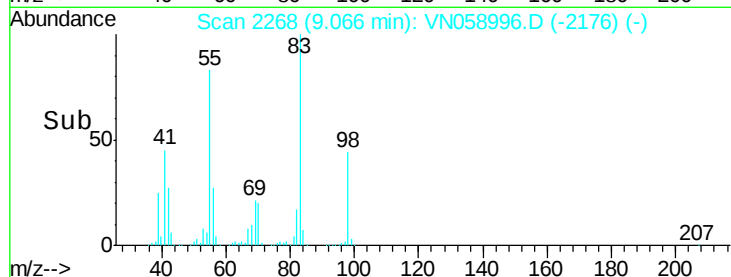
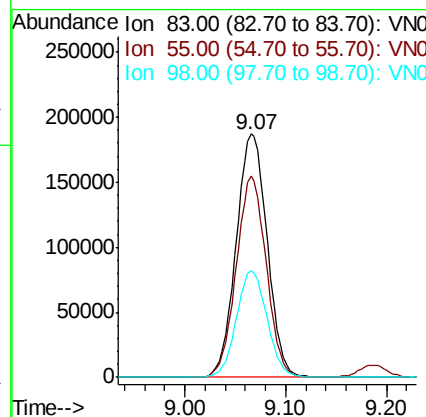
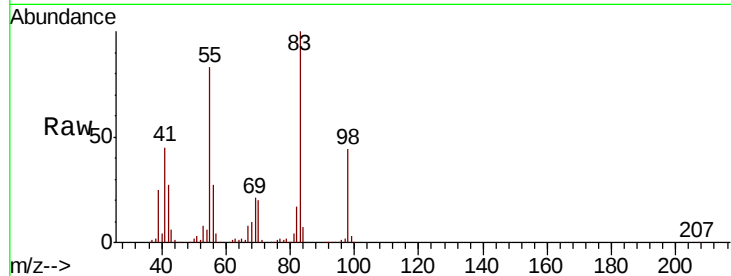
#39
Methvlcvclohexane
Concen: 52.234 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.9	65.5	98.3
98	44.1	35.7	53.5

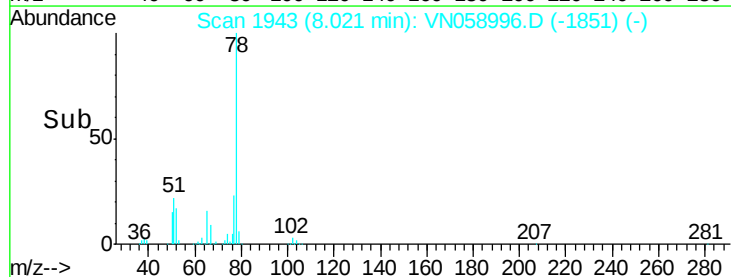
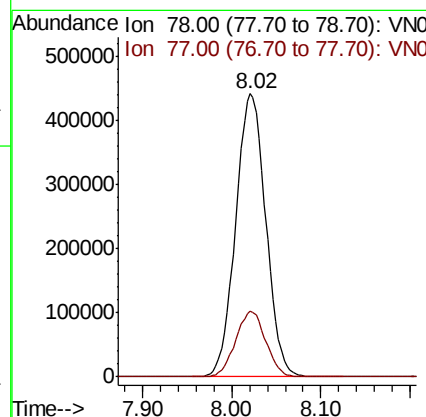
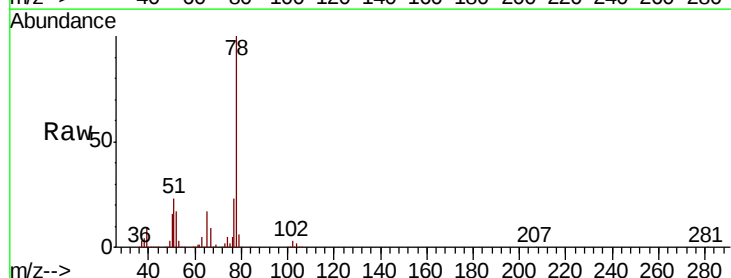
Manual Integrations
APPROVED

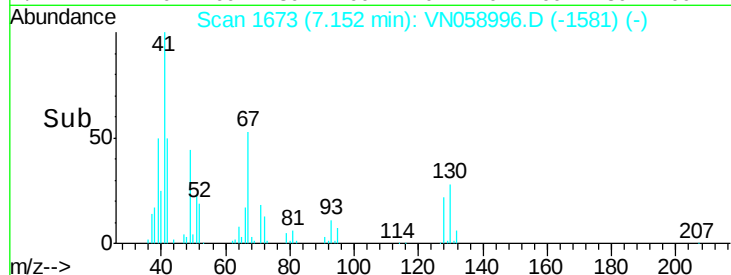
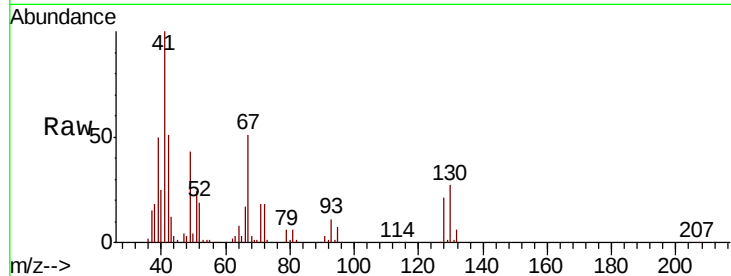
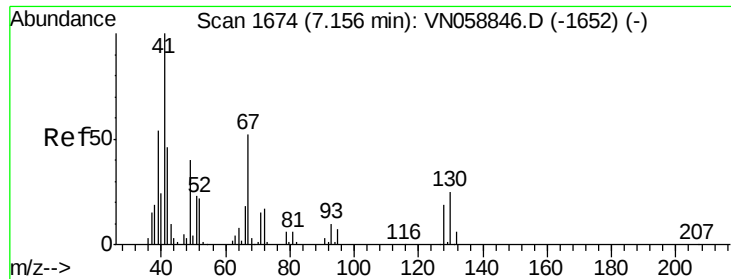
MMDadoda
10/30/2019 3:53:35 PM



#40
Benzene
Concen: 51.871 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.2	27.2





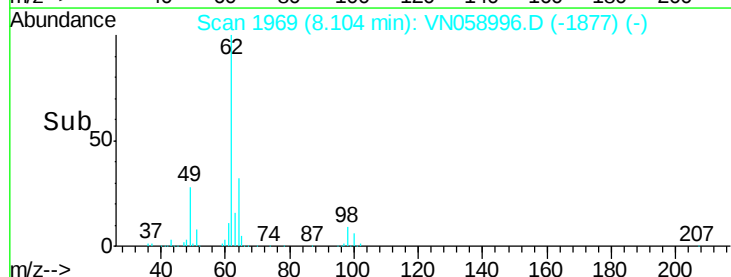
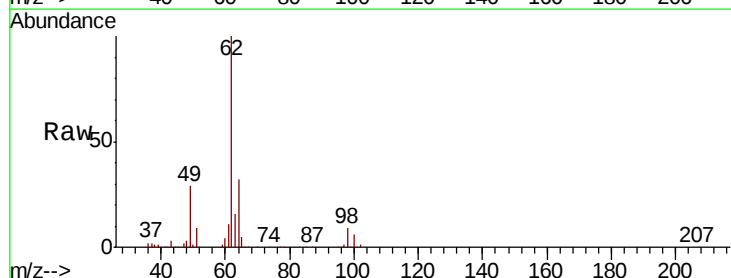
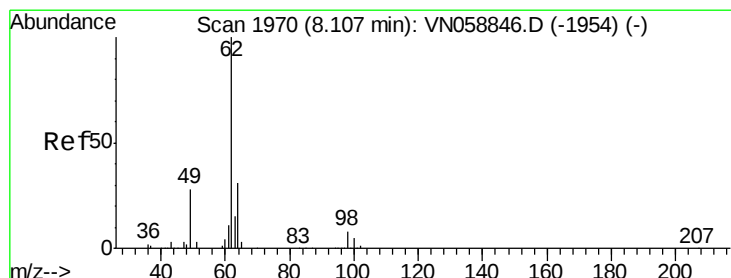
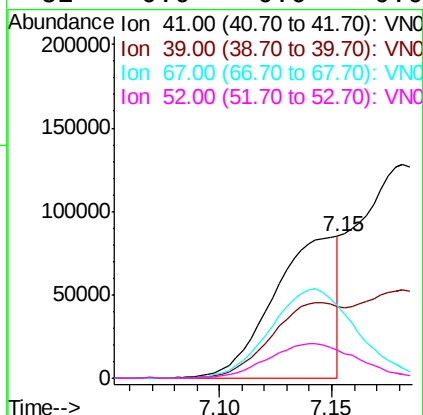
#41
Methacrylonitrile
Concen: 51.393 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		169748		
39	0.0	0.0	0.0		
67	0.0	0.0	0.0		
52	0.0	0.0	0.0		

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

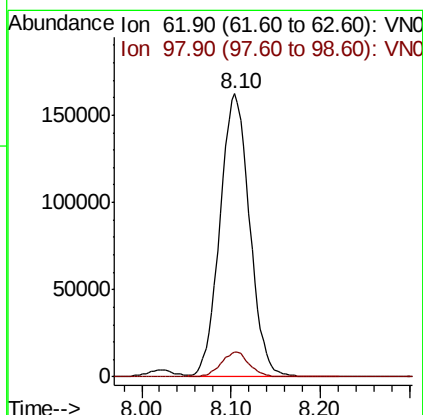
Manual Integrations
APPROVED

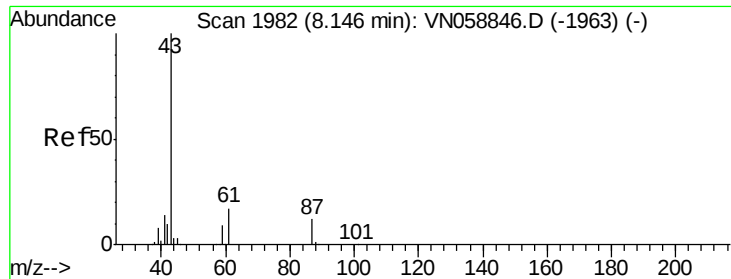
MMDadoda
10/30/2019 3:53:35 PM



#42
1,2-Dichloroethane
Concen: 48.515 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		373505		
98	8.3	0.0	16.2		





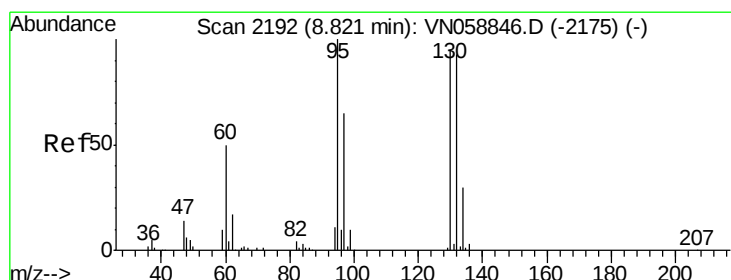
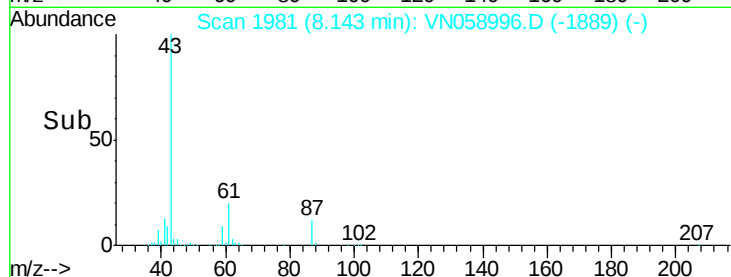
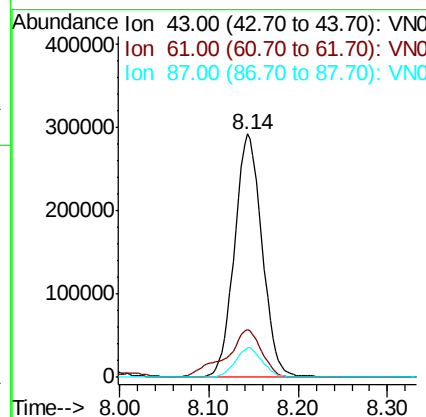
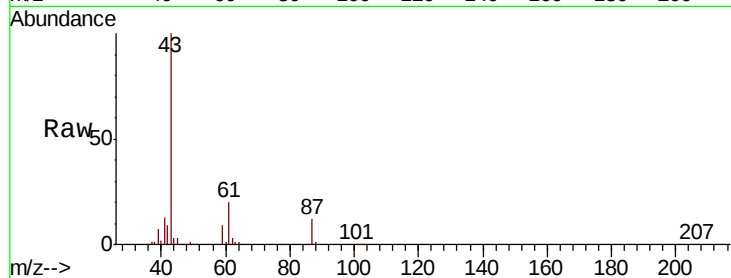
#43
Isopropyl Acetate
Concen: 52.408 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.5	20.2	30.2
87	12.1	9.5	14.3

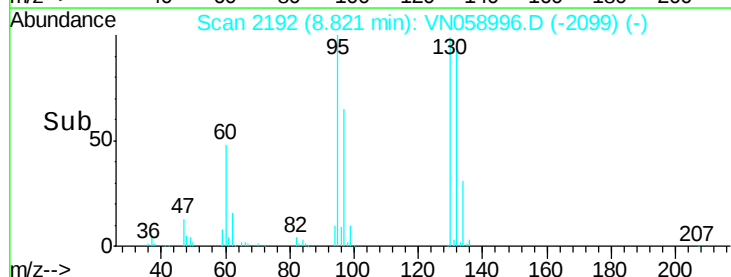
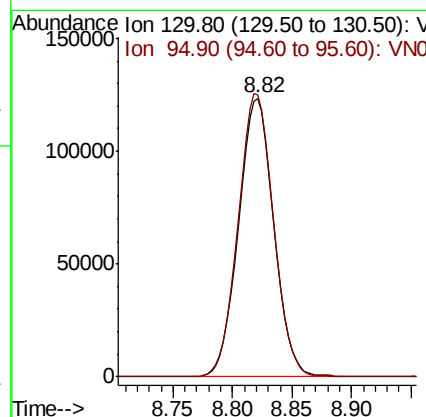
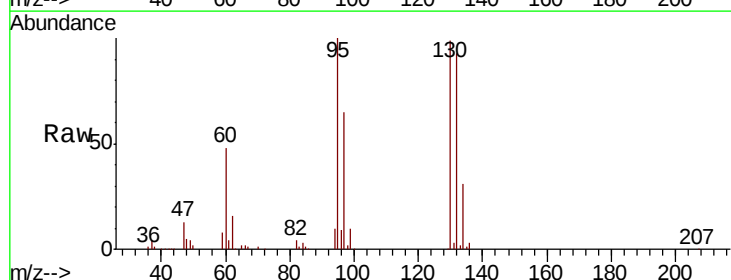
Manual Integrations
APPROVED

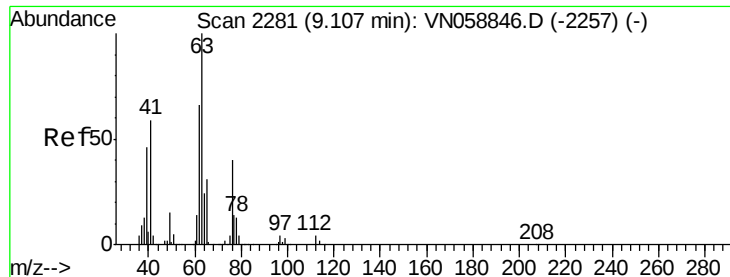
MMDadoda
10/30/2019 3:53:35 PM



#44
Trichloroethene
Concen: 51.912 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	209.6





#45

1,2-Dichloropropane

Concen: 52.528 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 287875

Ion Ratio Lower Upper

63 100

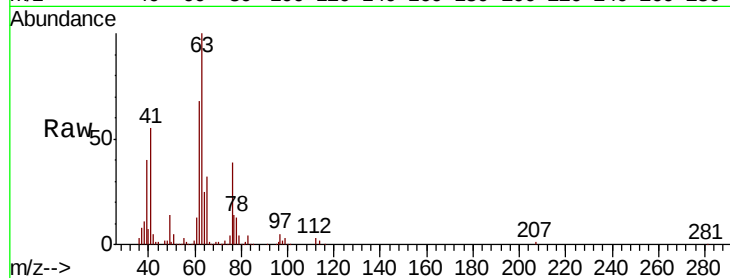
65 31.6 24.5 36.7

Manual Integrations

APPROVED

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

150000

100000

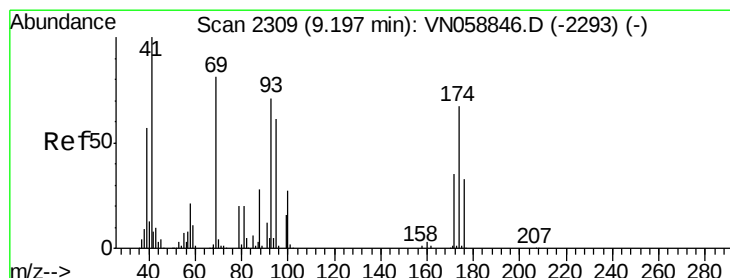
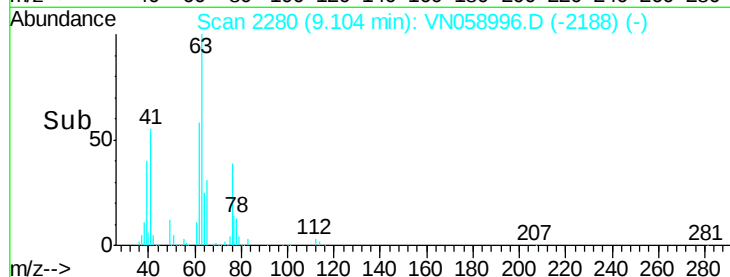
50000

0

9.10

9.00 9.10 9.20

Time-->



#46

Dibromomethane

Concen: 50.703 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

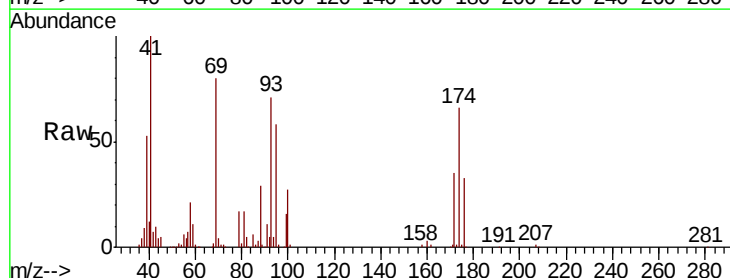
Tgt Ion: 93 Resp: 175666

Ion Ratio Lower Upper

93 100

95 82.6 67.6 101.4

174 94.8 74.1 111.1



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

120000

100000

80000

60000

40000

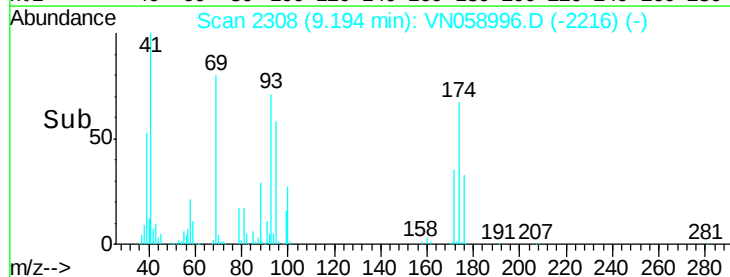
20000

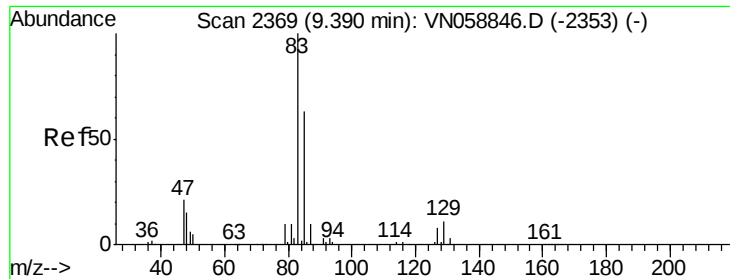
0

9.19

9.10 9.15 9.20 9.25 9.30

Time-->





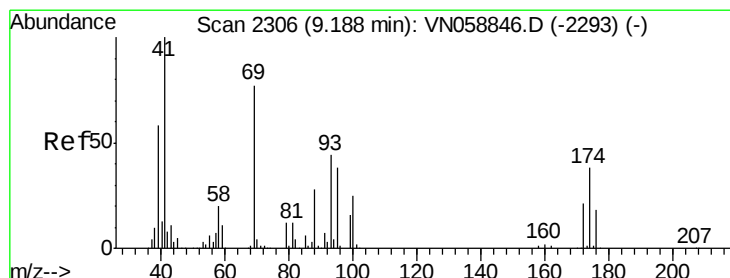
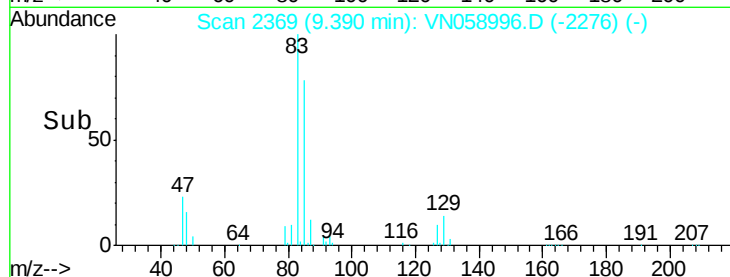
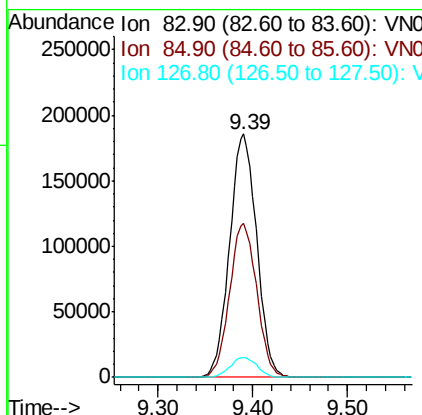
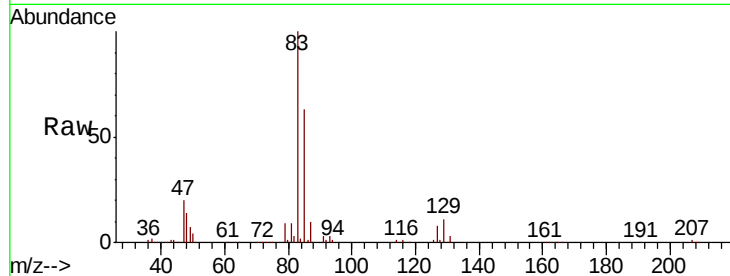
#47
Bromodichloromethane
Concen: 51.732 ug/l
RT: 9.39 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	369403		
85	63.1	50.6	75.8	
127	8.2	6.5	9.7	

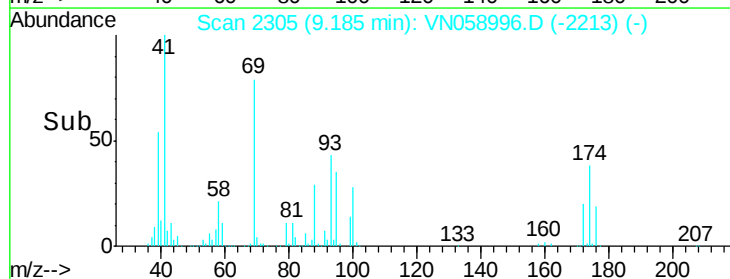
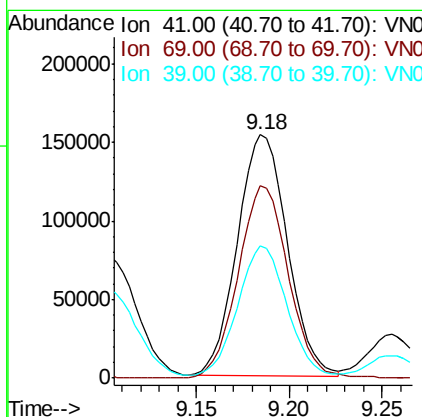
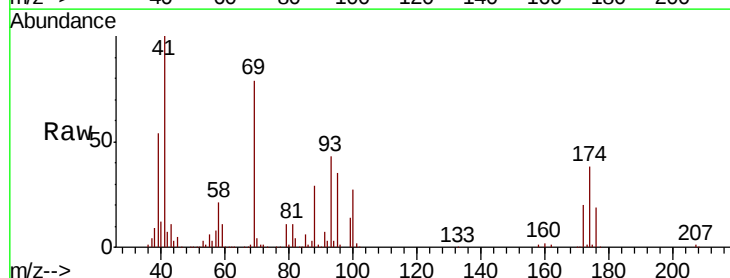
Manual Integrations
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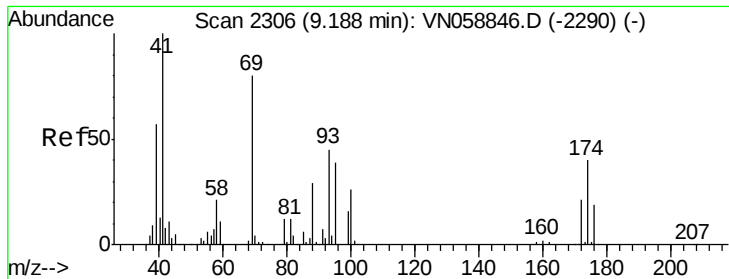
MMDadoda
10/30/2019 3:53:35 PM



#48
Methyl methacrylate
Concen: 53.271 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	287456		
69	80.9	63.8	95.6	
39	54.6	47.8	71.8	





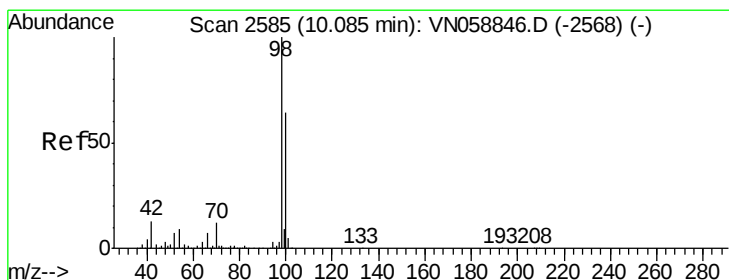
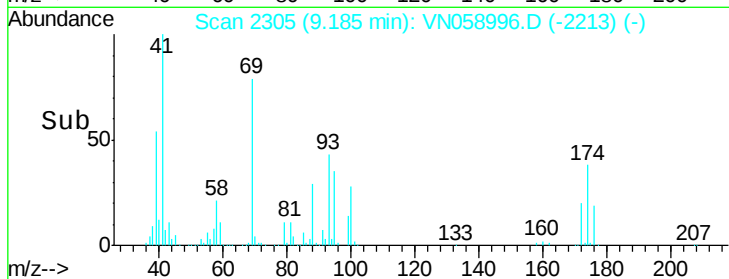
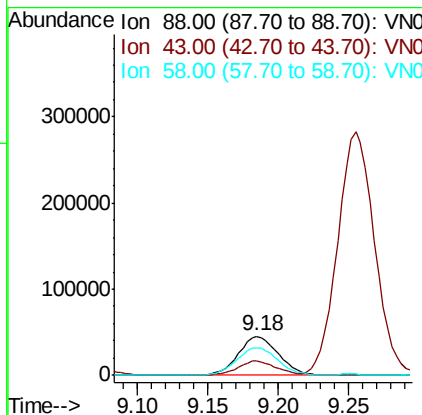
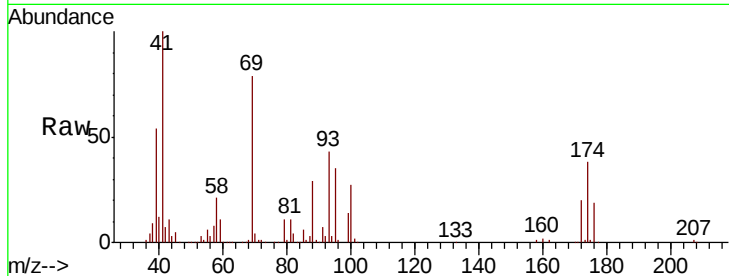
#49
1,4-Dioxane
Concen: 1025.945 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	33.9	29.1	43.7	
58	72.8	59.4	89.0	

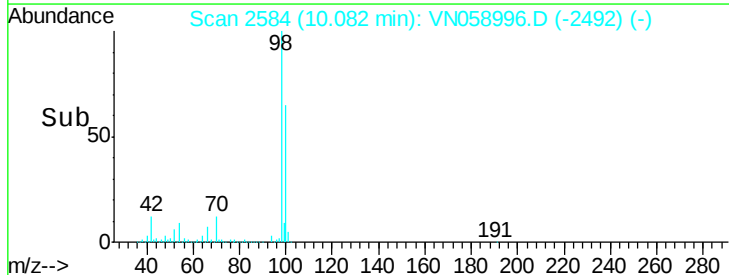
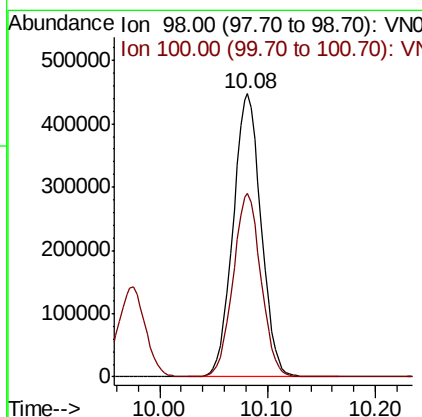
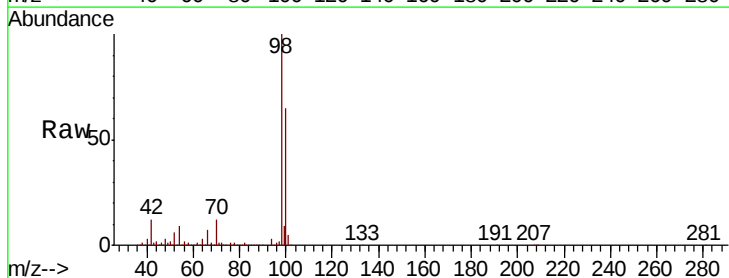
Manual Integrations
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10/30/2019 3:53:35 PM



#50
Toluene-d8
Concen: 47.750 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	64.3	51.4	77.2	





#51

4-Methyl-2-Pentanone

Concen: 274.773 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1908839

Ion Ratio Lower Upper

43 100

58 38.6

29.9

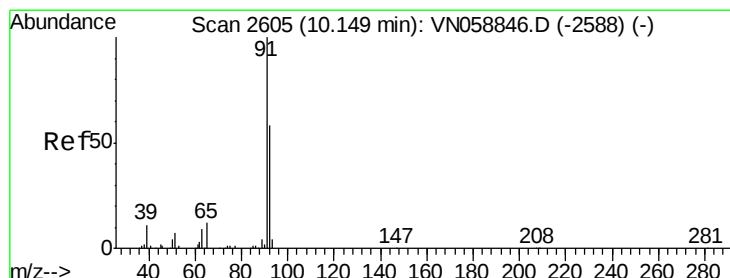
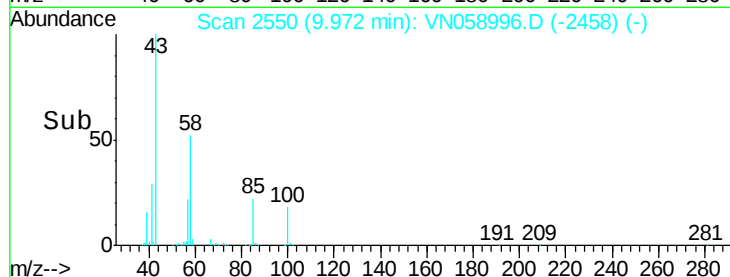
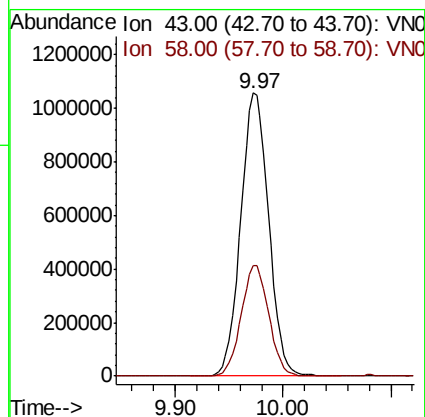
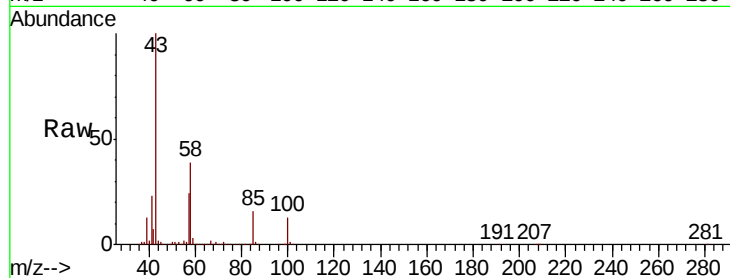
44.9

Manual Integrations

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10/30/2019 3:53:35 PM



#52

Toluene

Concen: 53.684 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Tgt Ion: 92 Resp: 636254

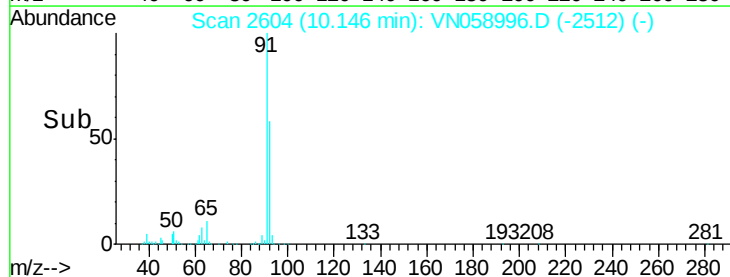
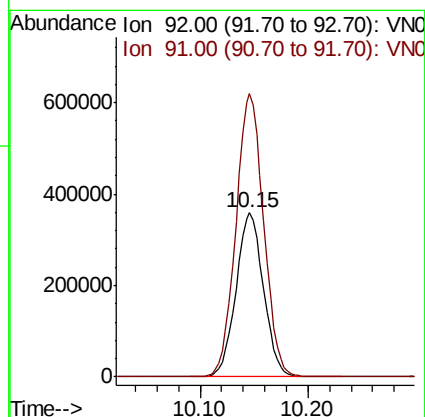
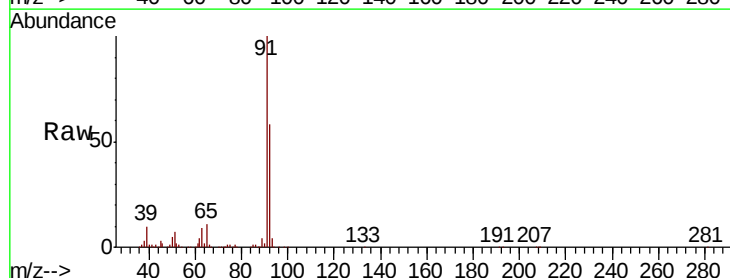
Ion Ratio Lower Upper

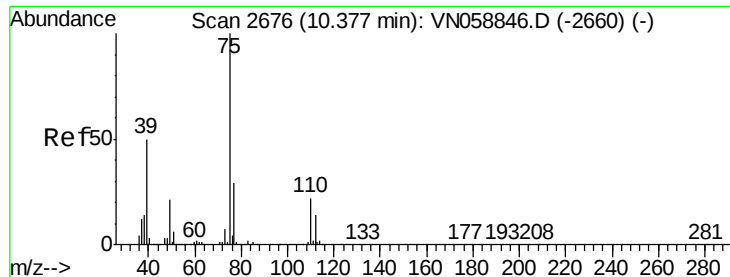
92 100

91 174.5

138.9

208.3





#53

t-1,3-Dichloropropene

Concen: 54.026 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 427073

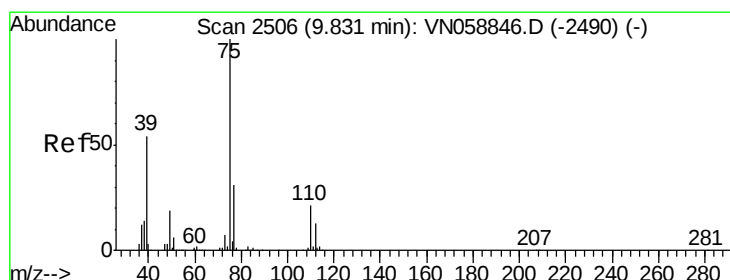
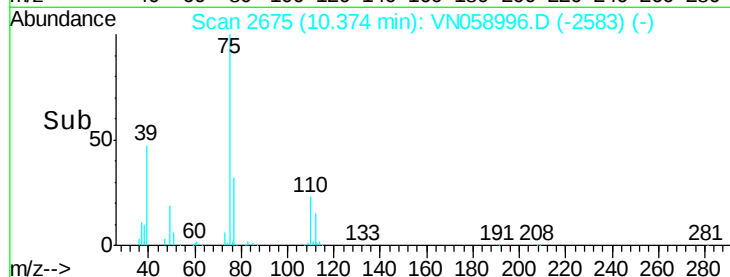
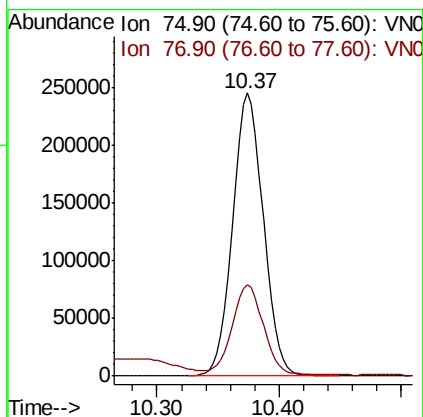
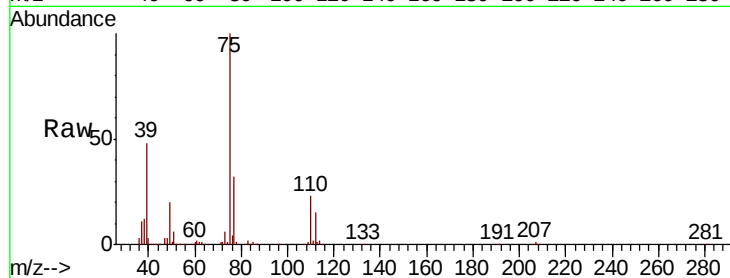
Ion Ratio Lower Upper

75 100

77 31.9 25.7 38.5

Manual Integrations
APPROVED

MMDadoda
10/30/2019 3:53:35 PM



#54

cis-1,3-Dichloropropene

Concen: 54.076 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

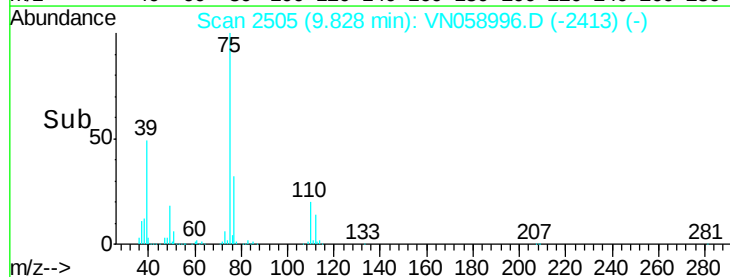
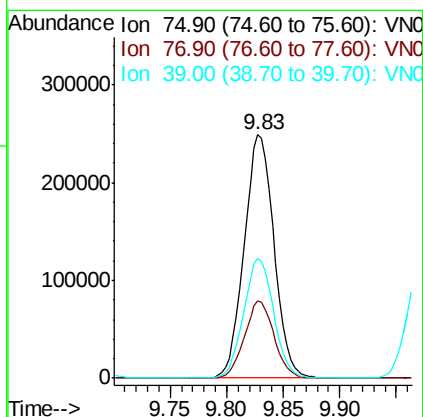
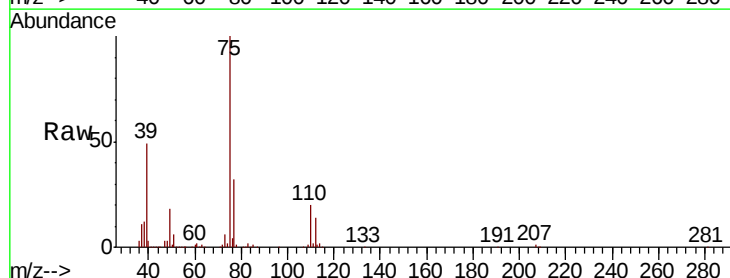
Tgt Ion: 75 Resp: 456691

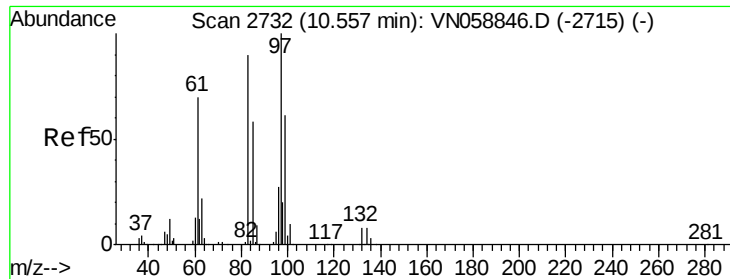
Ion Ratio Lower Upper

75 100

77 31.5 24.7 37.1

39 49.1 43.5 65.3





#55

1,1,2-Trichloroethane

Concen: 51.647 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

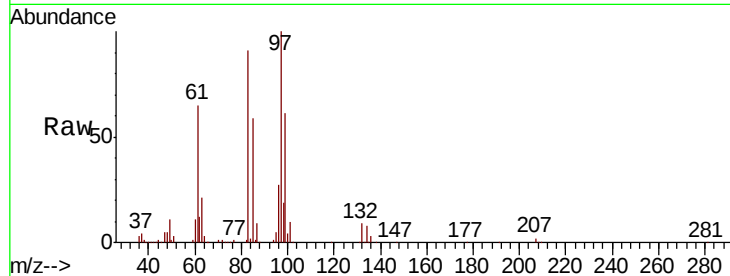
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	252161
Ion Ratio	Lower	Upper	
97	100		
83	91.4	72.2	108.4
85	58.8	46.2	69.2
99	61.3	48.7	73.1

Manual Integrations
APPROVED

MMDadoda
10/30/2019 3:53:35 PM



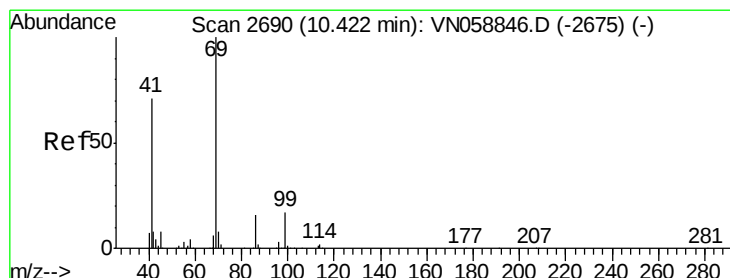
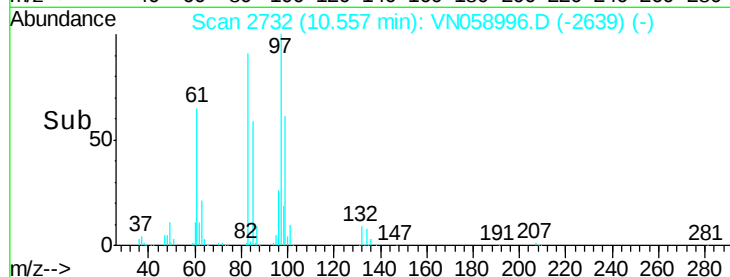
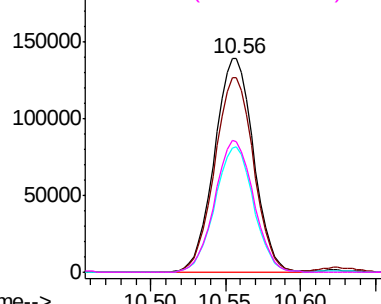
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 49.666 ug/l

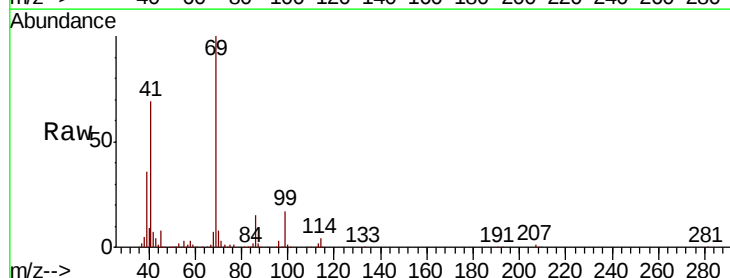
RT: 10.42 min Scan# 2690

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Tgt Ion:	69	Resp:	407208
Ion Ratio	Lower	Upper	
69	100		
41	67.8	57.2	85.8
39	35.3	31.0	46.4

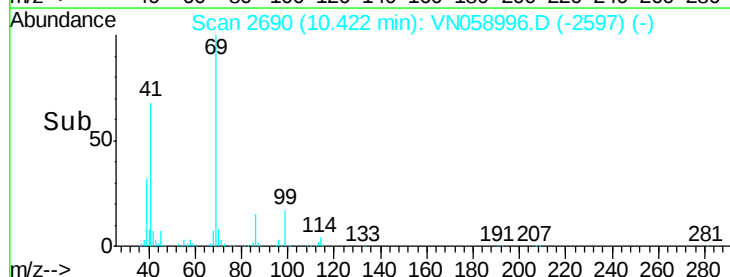
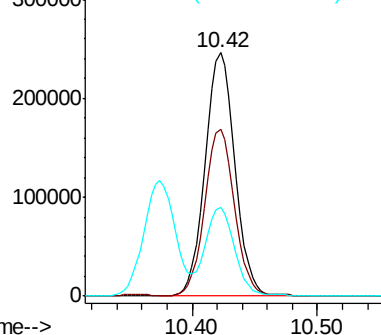


Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 51.754 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 443491

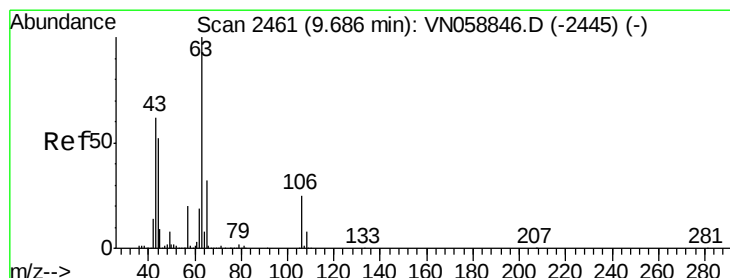
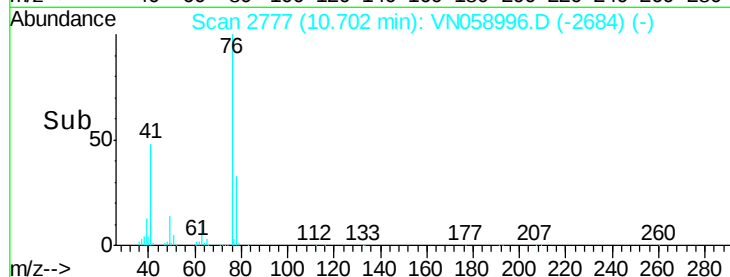
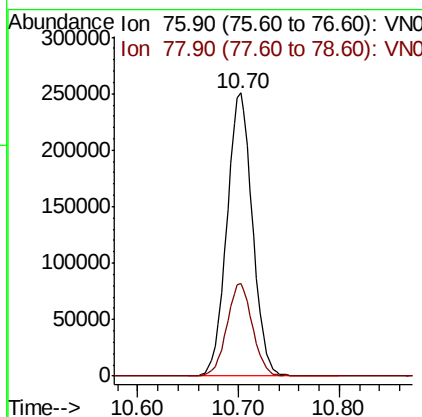
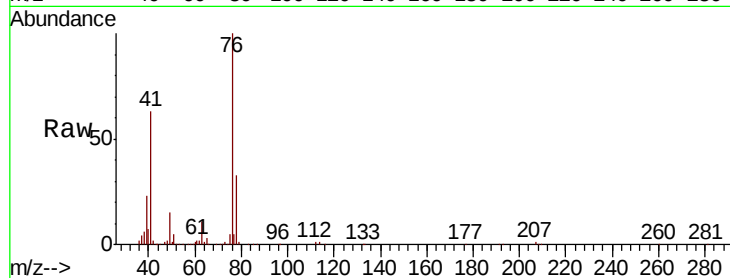
Ion Ratio Lower Upper

76 100

78 32.8 25.4 38.0

Manual Integrations
APPROVED

MMDadoda
10/30/2019 3:53:35 PM



#58

2-Chloroethyl Vinyl ether

Concen: 257.191 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN058996.D

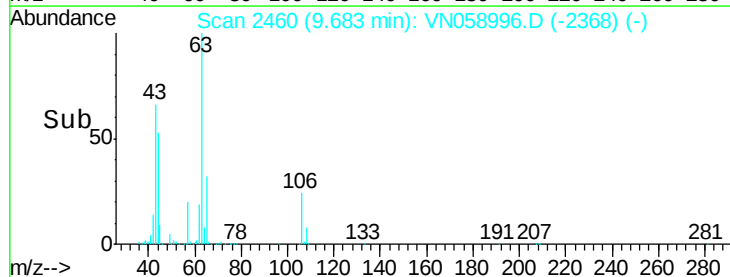
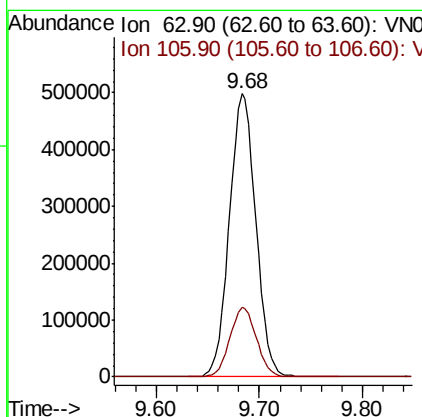
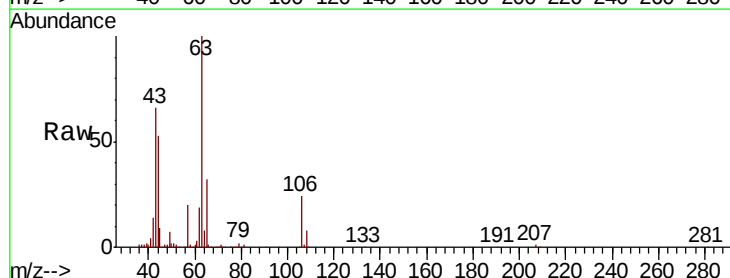
Acq: 29 Oct 2019 9:36

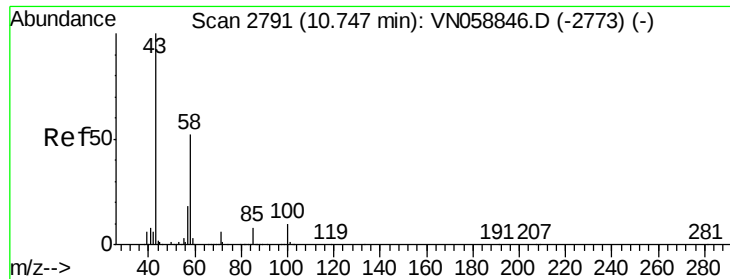
Tgt Ion: 63 Resp: 891286

Ion Ratio Lower Upper

63 100

106 24.6 19.8 29.8





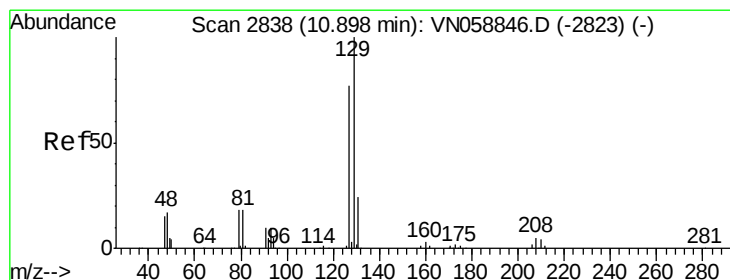
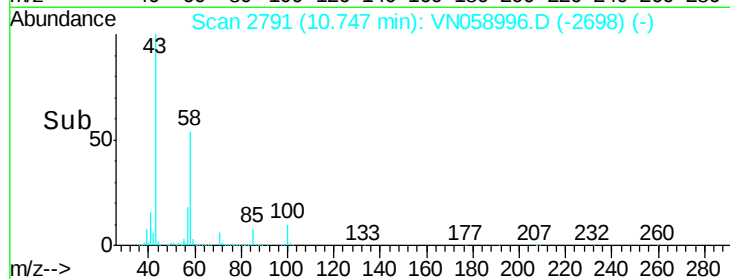
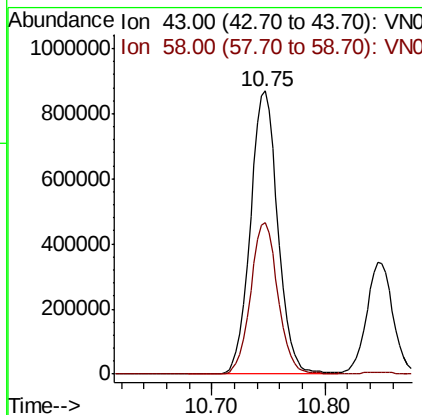
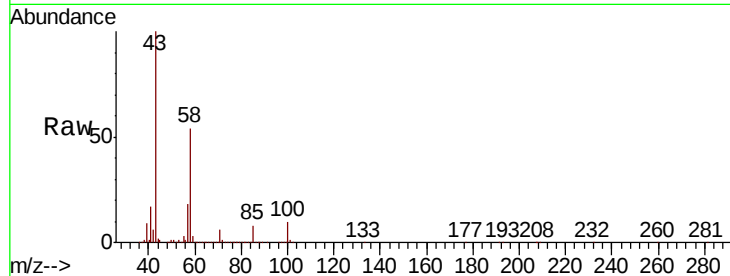
#59
2-Hexanone
Concen: 272.475 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1462683
Ion Ratio Lower Upper
43 100
58 53.5 25.9 77.7

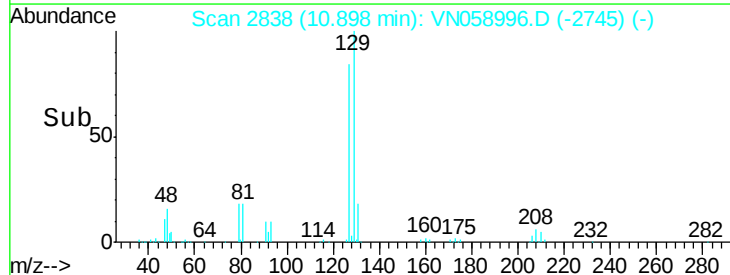
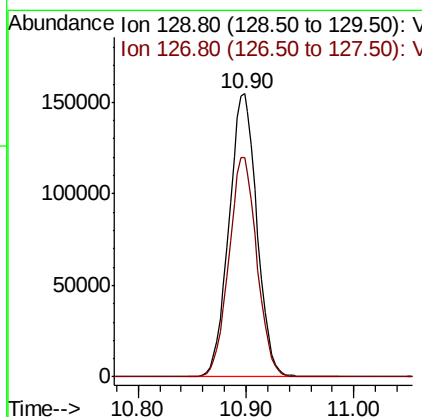
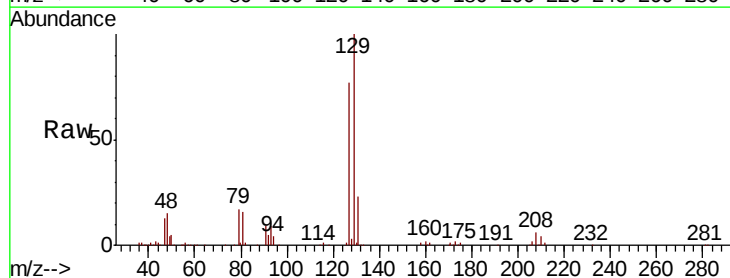
Manual Integrations
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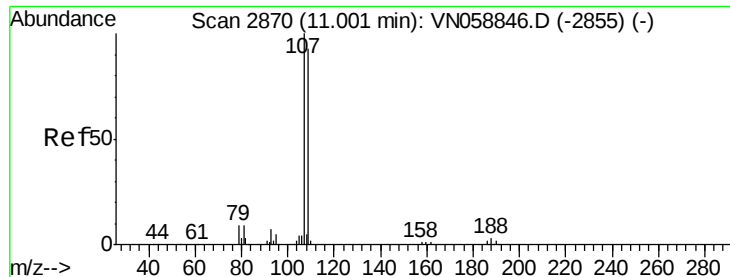
MMDadoda
10/30/2019 3:53:35 PM



#60
Dibromochloromethane
Concen: 53.215 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion: 129 Resp: 279658
Ion Ratio Lower Upper
129 100
127 77.4 39.1 117.3





#61

1,2-Dibromoethane

Concen: 52.206 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 260852

Ion Ratio Lower Upper

107 100

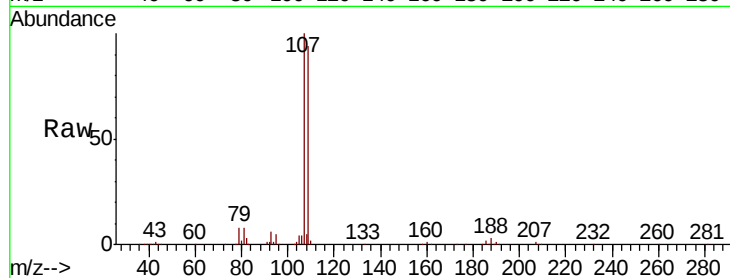
109 94.2 75.2 112.8

Manual Integrations

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10/30/2019 3:53:35 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

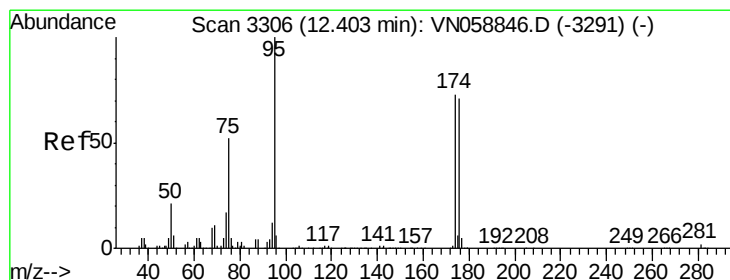
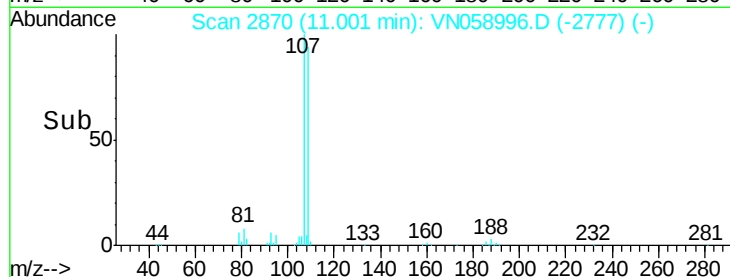
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 50.318 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

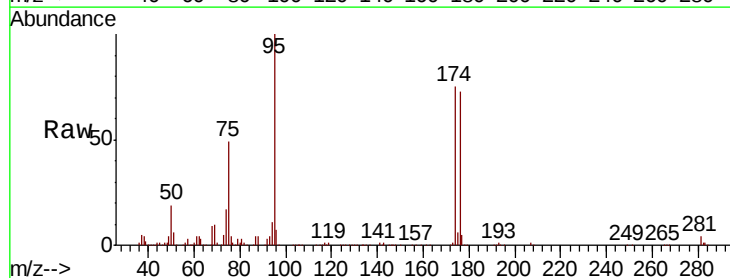
Tgt Ion: 95 Resp: 313513

Ion Ratio Lower Upper

95 100

174 75.9 0.0 147.6

176 73.4 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

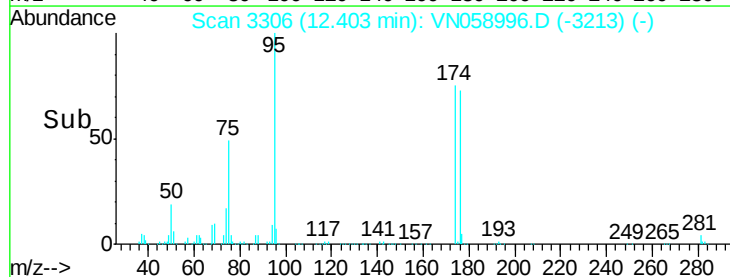
150000

100000

50000

0

Time--> 12.35 12.40 12.45 12.50





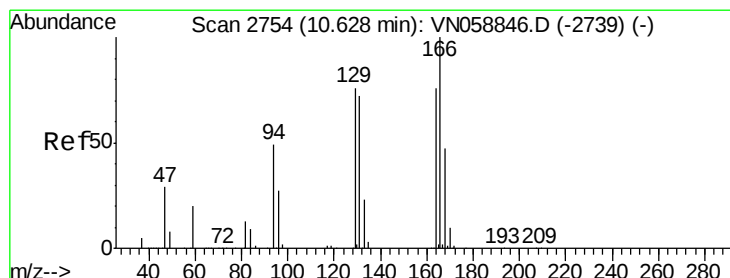
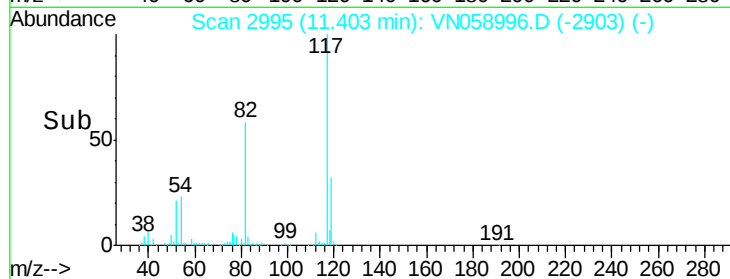
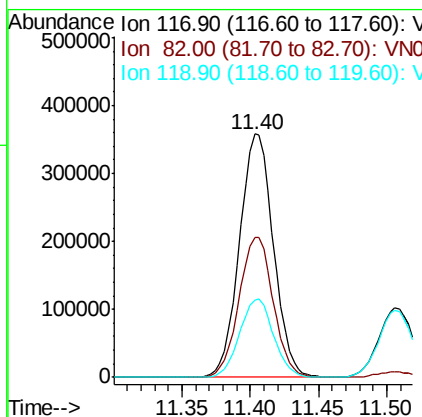
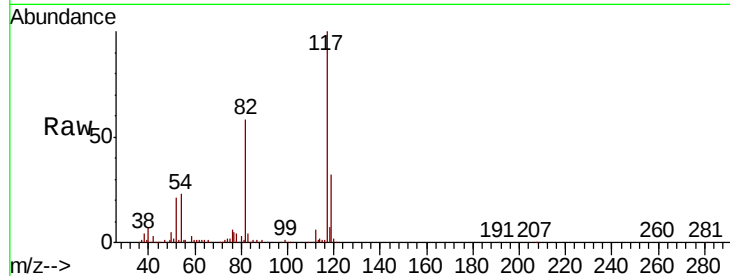
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	619359		
82	57.7	46.6	69.8	
119	31.9	25.6	38.4	

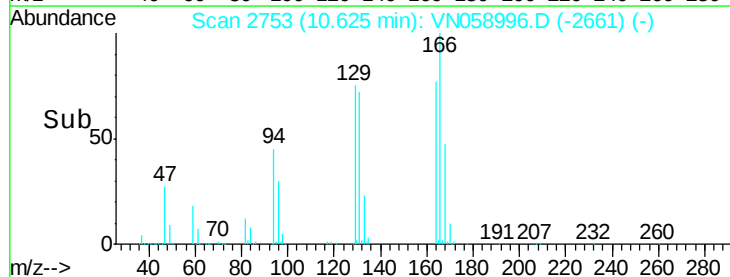
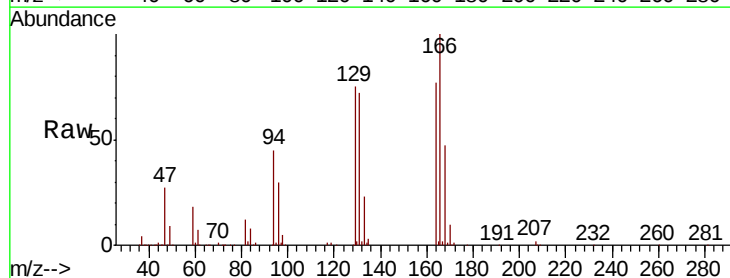
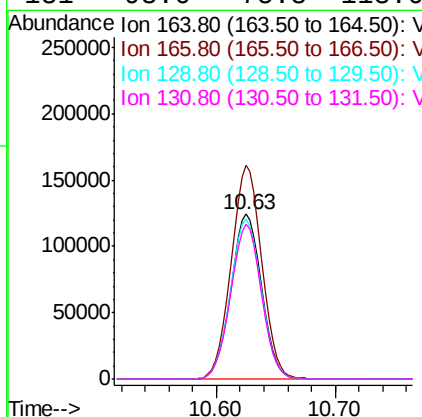
Manual Integrations
APPROVED

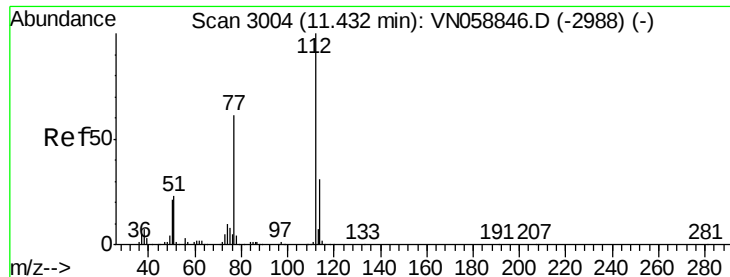
MMDadoda
10/30/2019 3:53:35 PM



#64
Tetrachloroethene
Concen: 51.157 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	221899		
166	129.5	104.8	157.2	
129	96.7	79.3	118.9	
131	93.6	75.8	113.6	





#65

Chlorobenzene

Concen: 53.403 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 673381

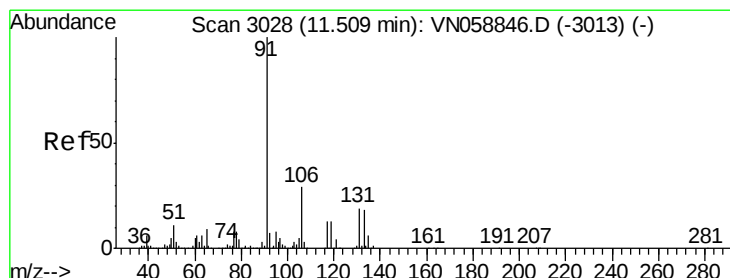
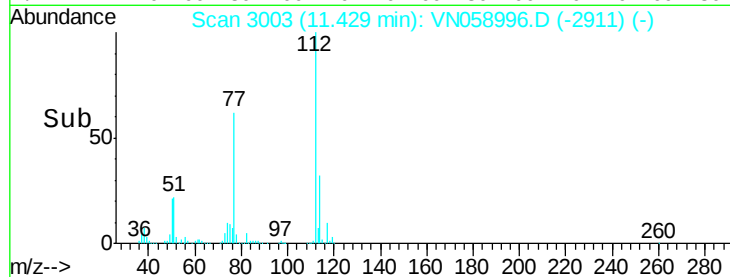
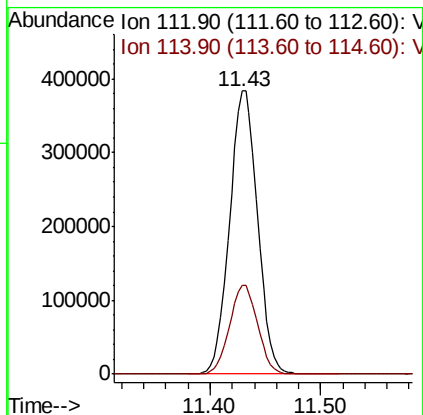
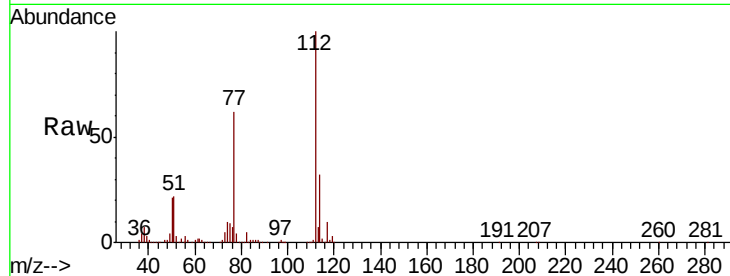
Ion Ratio Lower Upper

112 100

114 31.5 25.1 37.7

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 53.675 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

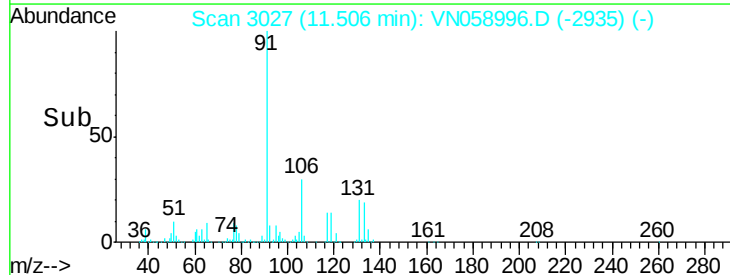
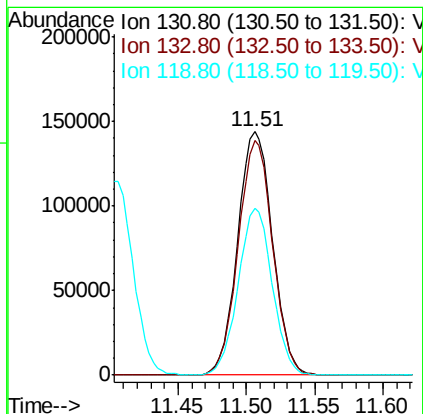
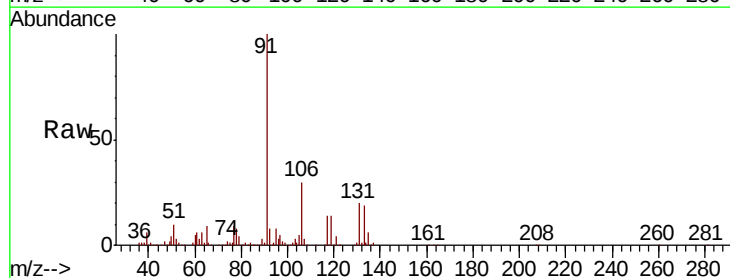
Tgt Ion:131 Resp: 255396

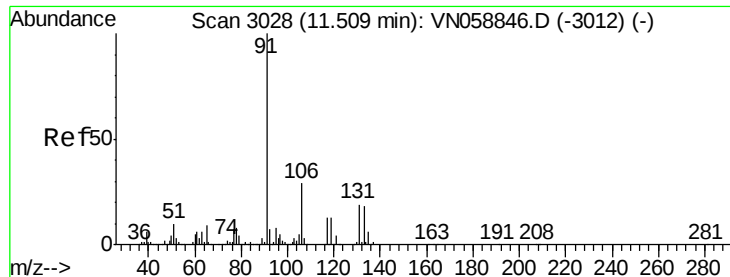
Ion Ratio Lower Upper

131 100

133 95.5 48.4 145.2

119 67.0 33.6 100.8





#67

Ethyl Benzene

Concen: 56.089 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1240666

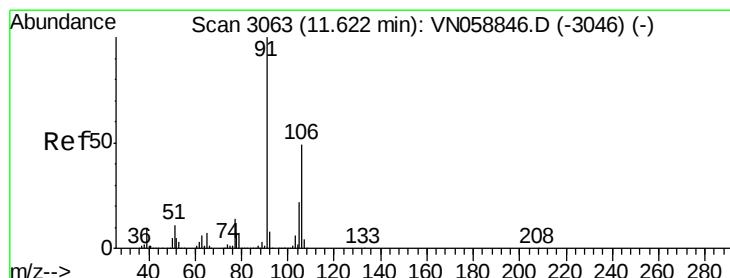
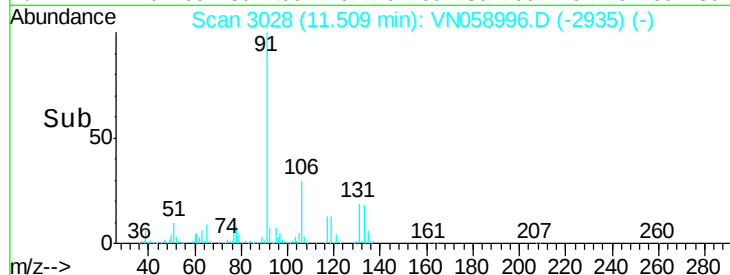
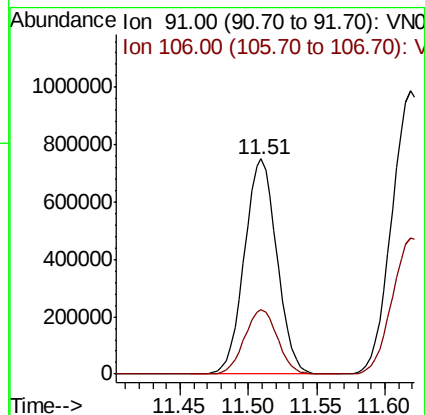
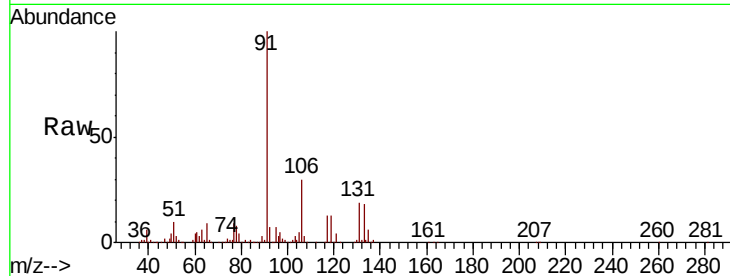
Ion Ratio Lower Upper

91 100

106 30.2 23.4 35.0

Manual Integrations
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#68

m/p-Xylenes

Concen: 112.202 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN058996.D

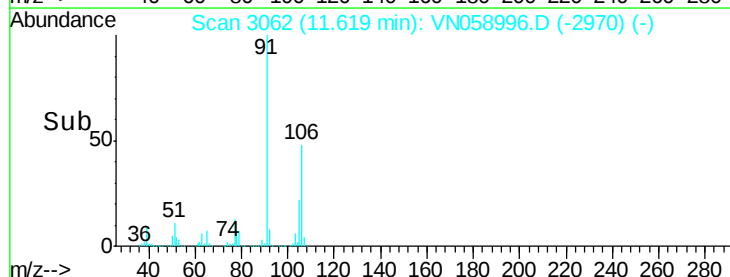
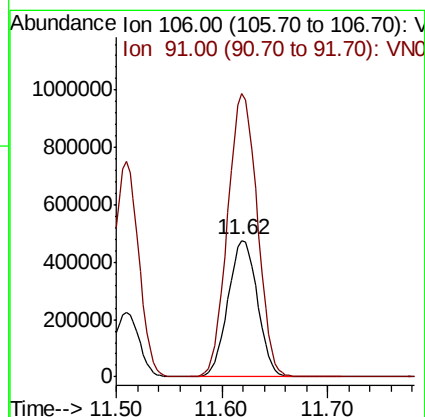
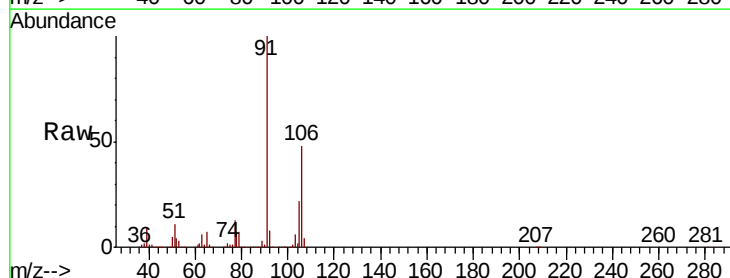
Acq: 29 Oct 2019 9:36

Tgt Ion: 106 Resp: 920394

Ion Ratio Lower Upper

106 100

91 208.5 166.6 249.8





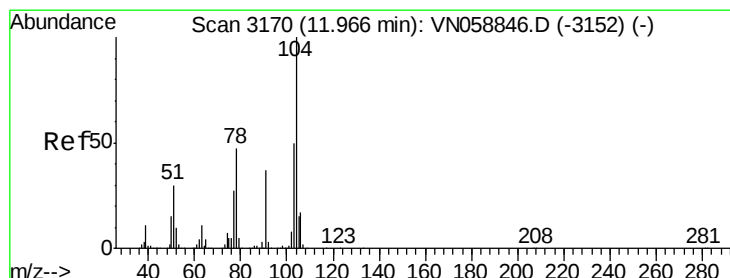
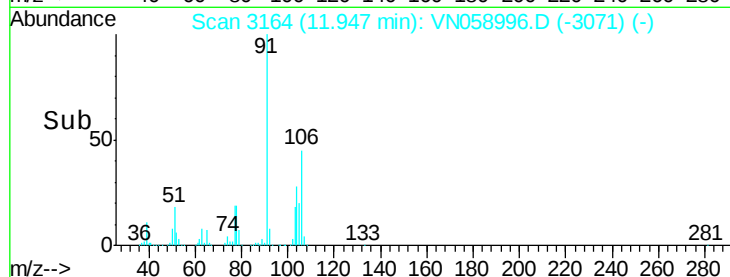
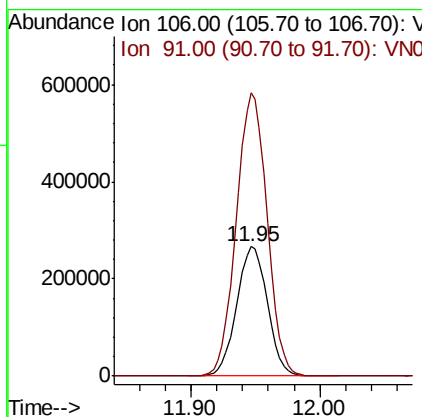
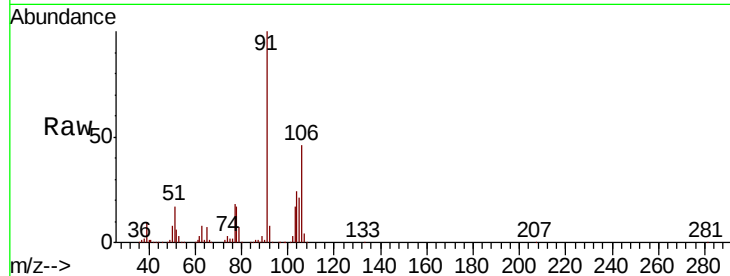
#69
o-Xylene
Concen: 56.540 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	218.9	111.5	334.4

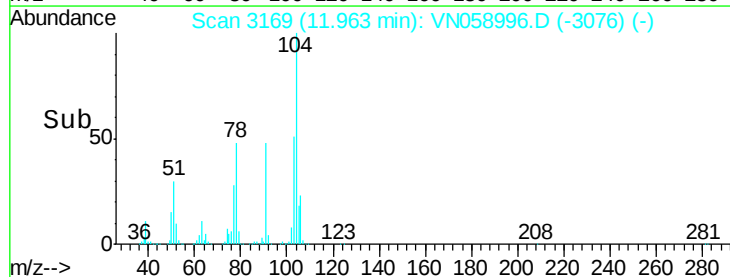
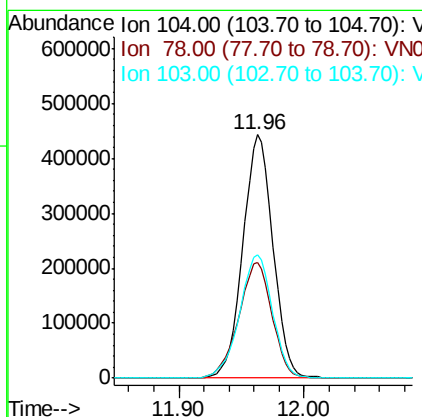
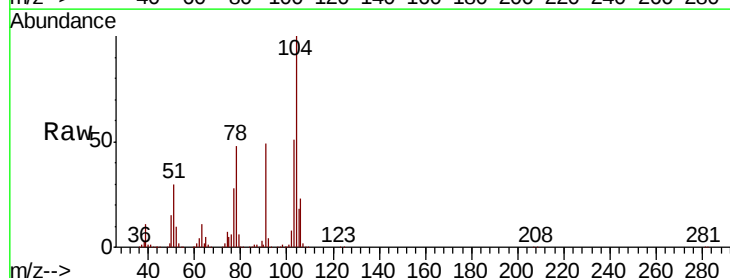
Manual Integrations
APPROVED

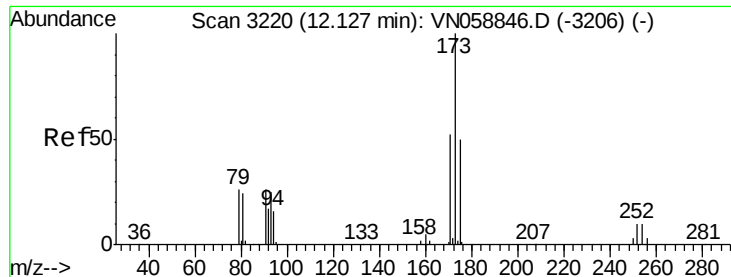
MMDadoda
10/30/2019 3:53:35 PM



#70
Styrene
Concen: 51.286 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
104	100		
78	52.4	42.8	64.2
103	55.1	44.3	66.5





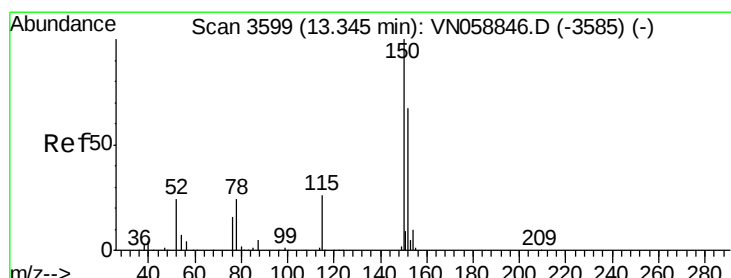
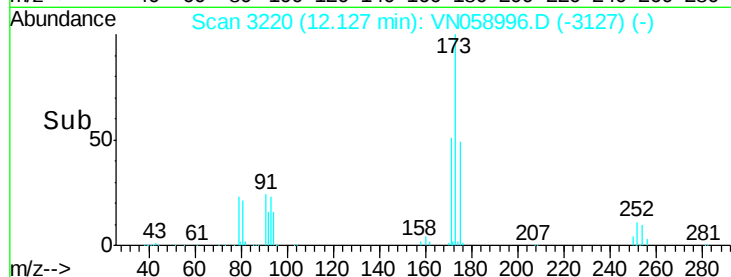
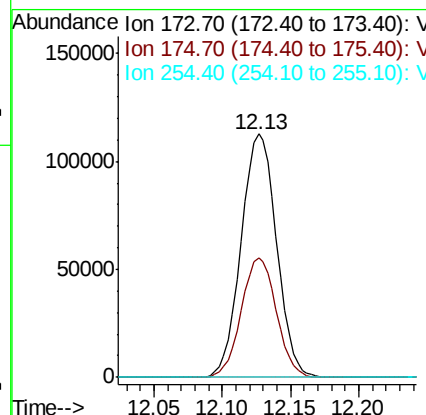
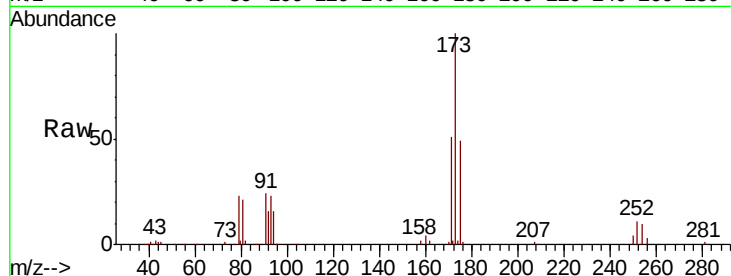
#71
Bromoform
Concen: 55.158 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.7	74.1
254	0.0	0.0	0.0

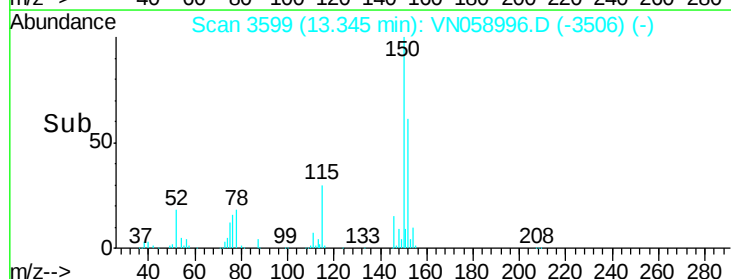
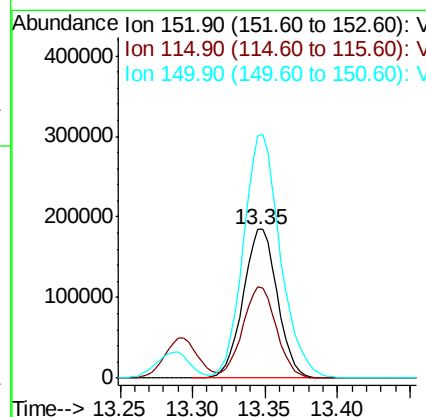
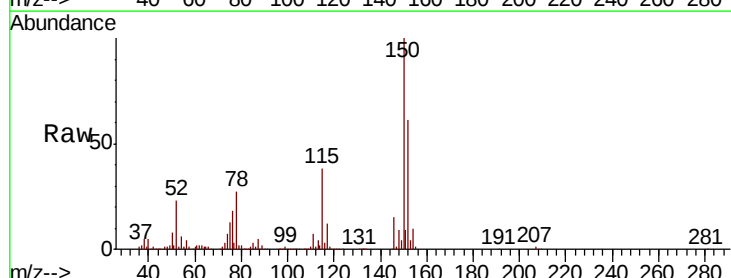
Manual Integrations
APPROVED

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10/30/2019 3:53:35 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.6	30.5	91.5
150	176.6	0.0	344.4





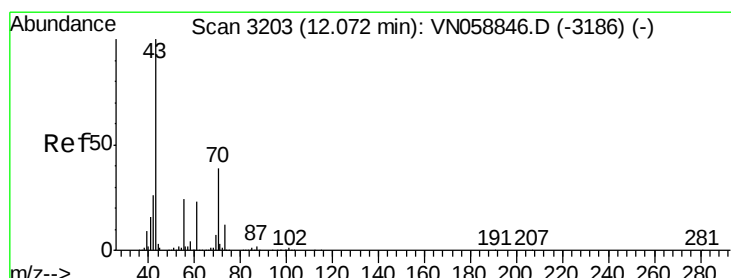
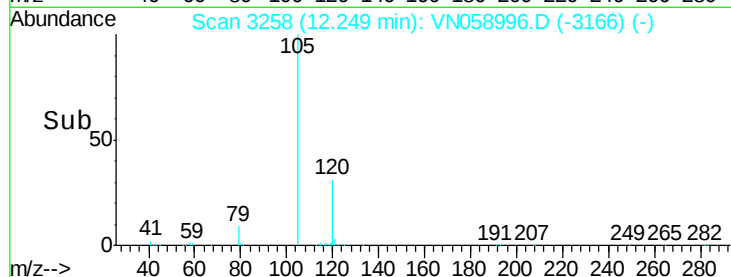
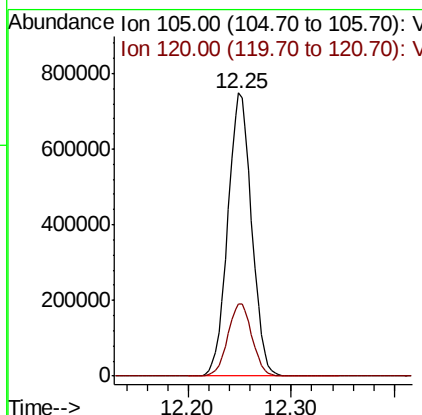
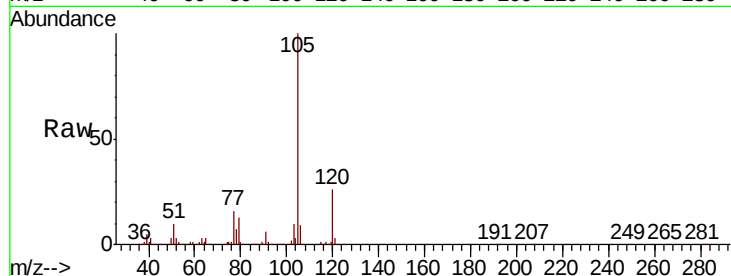
#73
Isopropylbenzene
Concen: 54.236 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 1204568
Ion Ratio Lower Upper
105 100
120 26.0 12.8 38.4

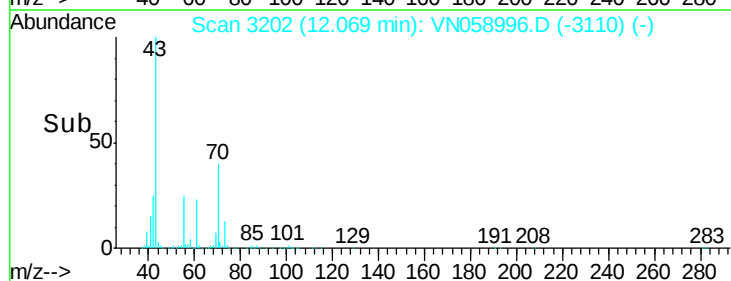
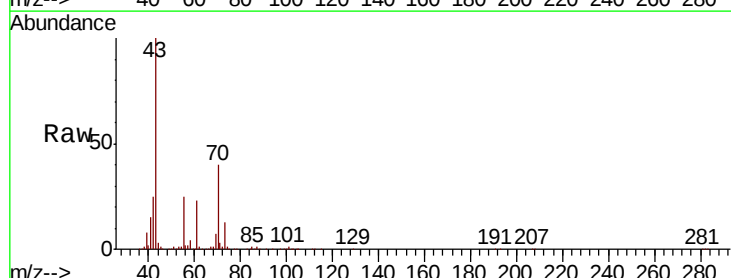
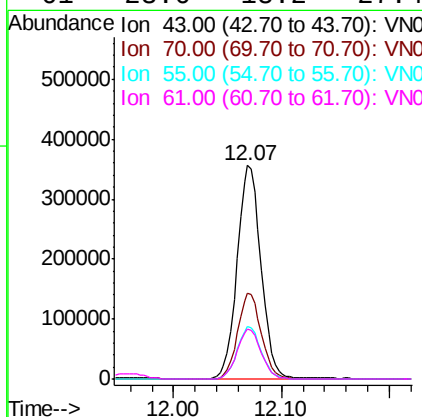
Manual Integrations
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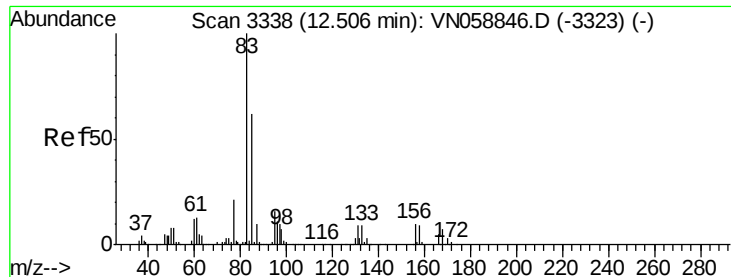
MMDadoda
10/30/2019 3:53:35 PM



#74
N-ethyl acetate
Concen: 54.445 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion: 43 Resp: 548205
Ion Ratio Lower Upper
43 100
70 39.8 30.9 46.3
55 24.6 19.7 29.5
61 23.6 18.2 27.4





#75

1,1,2,2-Tetrachloroethane

Concen: 50.312 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

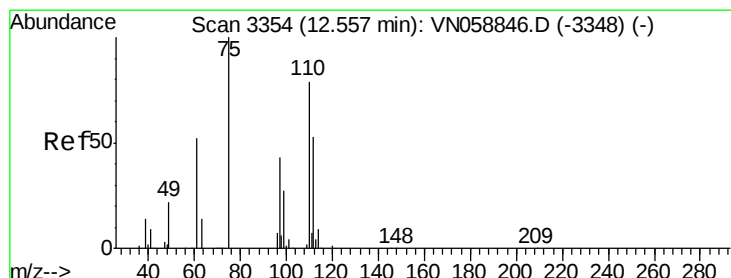
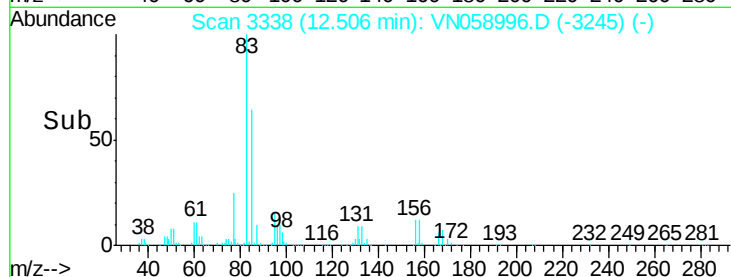
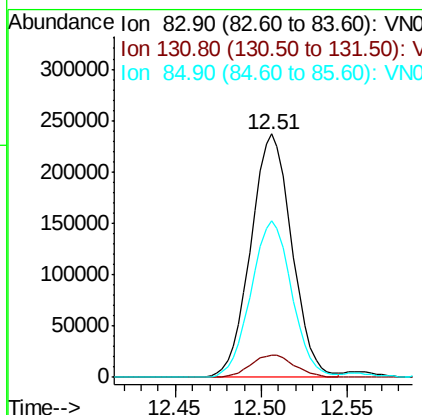
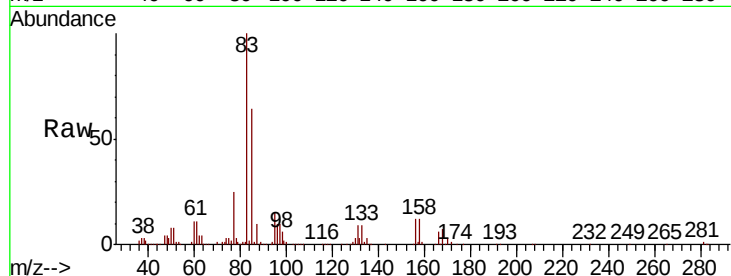
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	392911
Ion Ratio		Lower	Upper
83	100		
131	9.8	4.7	14.1
85	63.9	31.7	95.1

Manual Integrations
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10/30/2019 3:53:35 PM



#76

1,2,3-Trichloropropane

Concen: 51.525 ug/l m

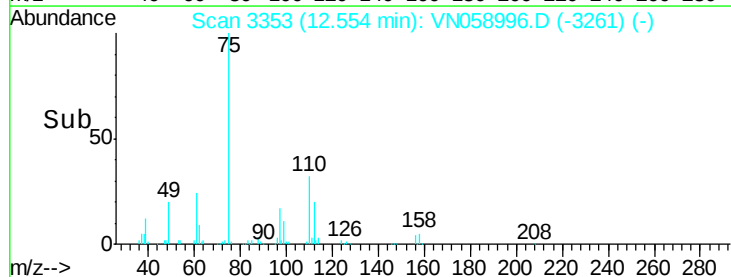
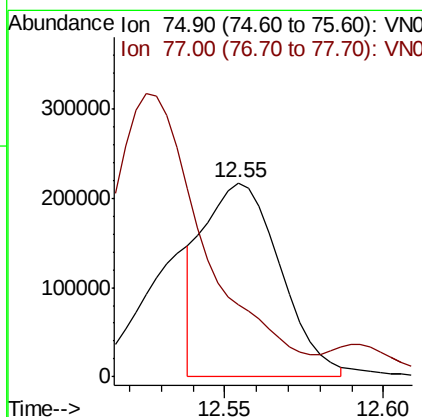
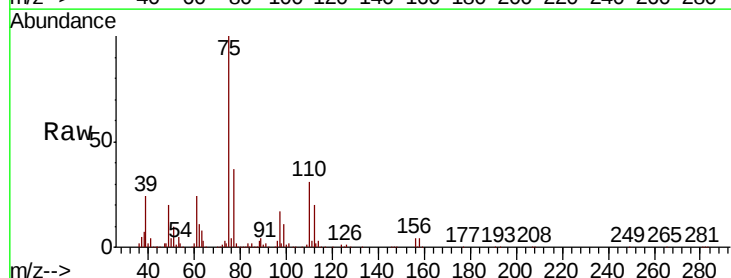
RT: 12.55 min Scan# 3353

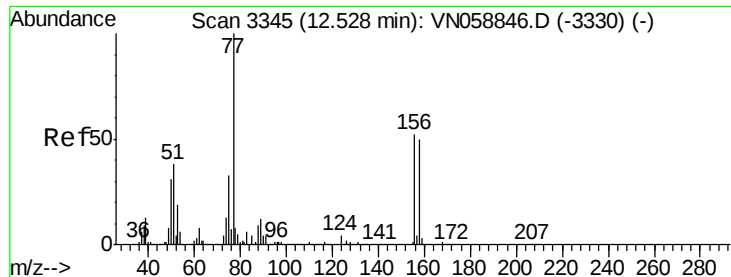
Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Tgt Ion:	75	Resp:	362906
Ion Ratio		Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 52.567 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

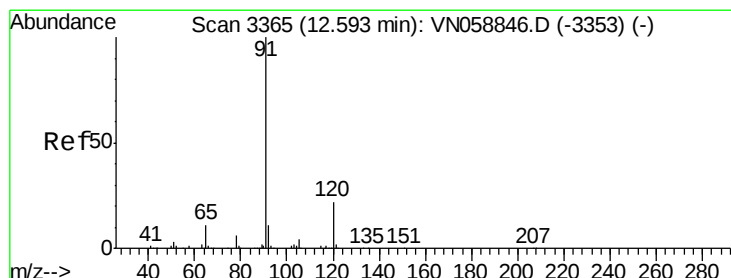
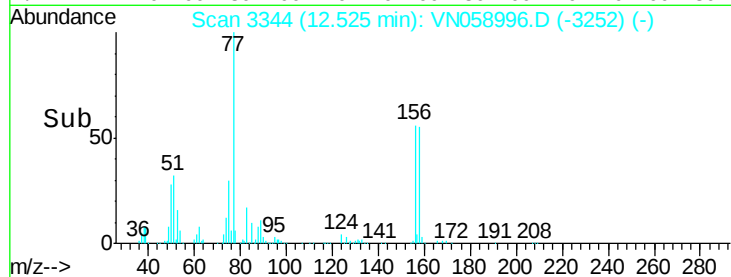
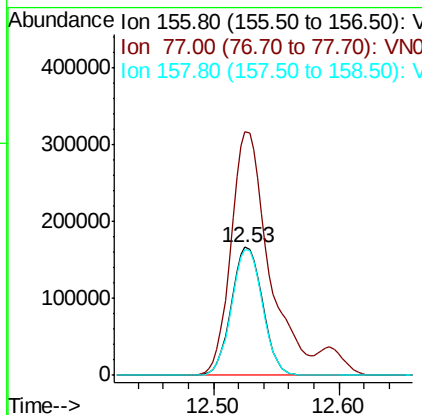
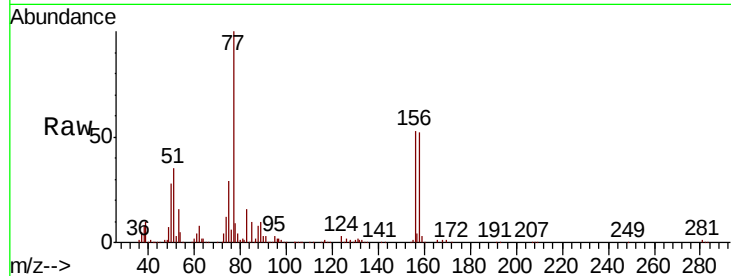
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	228.8	118.0	354.0	
158	97.8	48.3	144.8	

Manual Integrations
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#78

n-propylbenzene

Concen: 55.132 ug/l

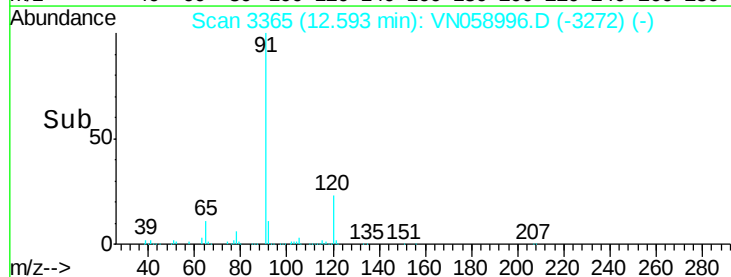
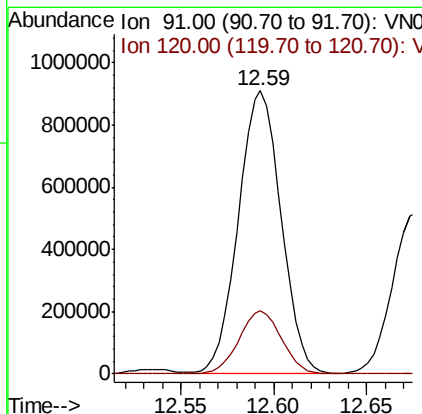
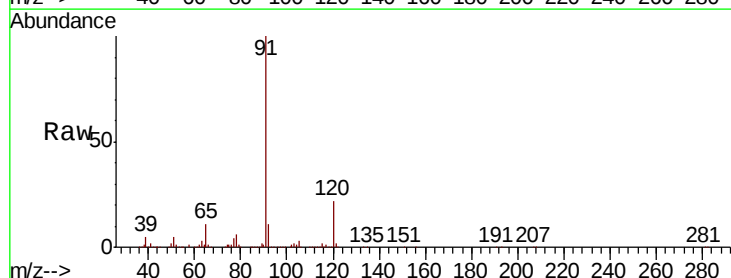
RT: 12.59 min Scan# 3365

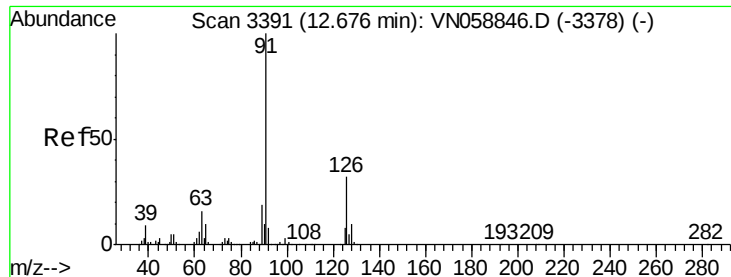
Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.3	11.1	33.1	





#79

2-Chlorotoluene

Concen: 52.632 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 845678

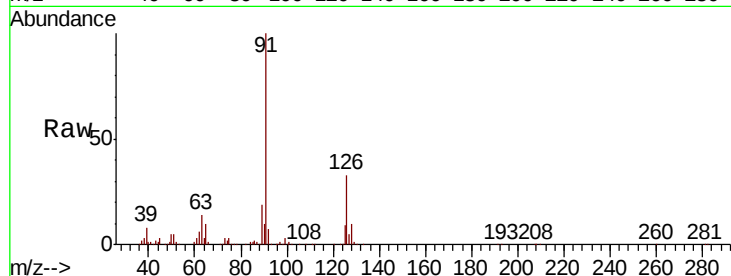
Ion Ratio Lower Upper

91 100

126 32.8 16.2 48.6

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Abundance Ion 91.00 (90.70 to 91.70): VN058846.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN058846.D (-3378) (-)

1000000

800000

600000

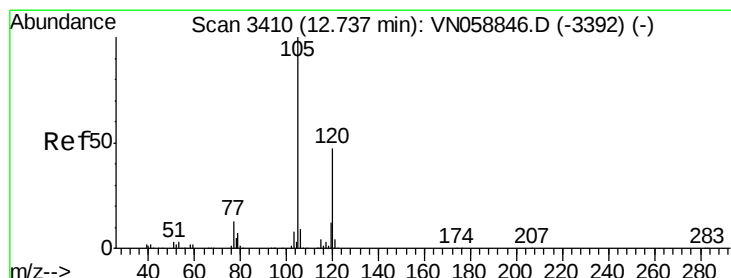
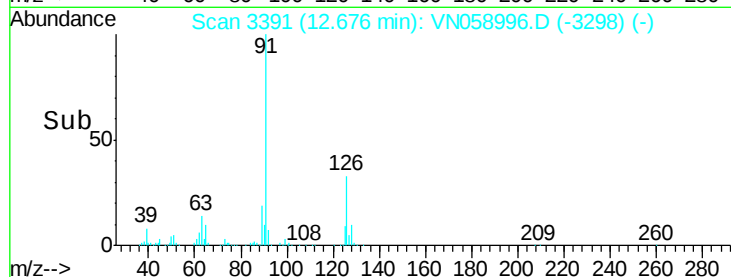
400000

200000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 55.601 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN058996.D

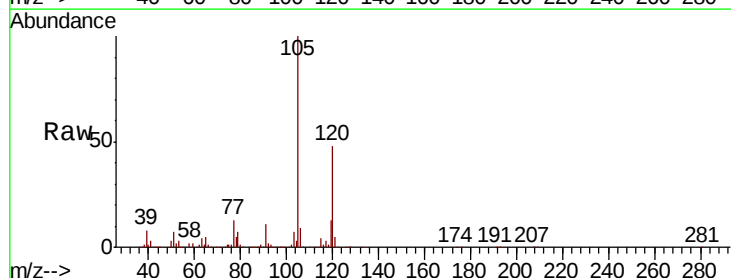
Acq: 29 Oct 2019 9:36

Tgt Ion: 105 Resp: 1037529

Ion Ratio Lower Upper

105 100

120 47.8 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): VN058996.D (-3317) (-)

Ion 120.00 (119.70 to 120.70): VN058996.D (-3317) (-)

600000

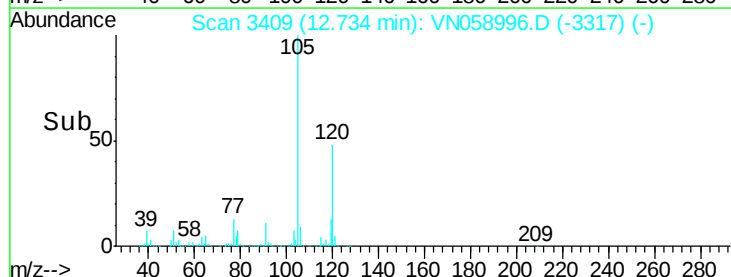
400000

200000

0

12.70 12.80

Time-->





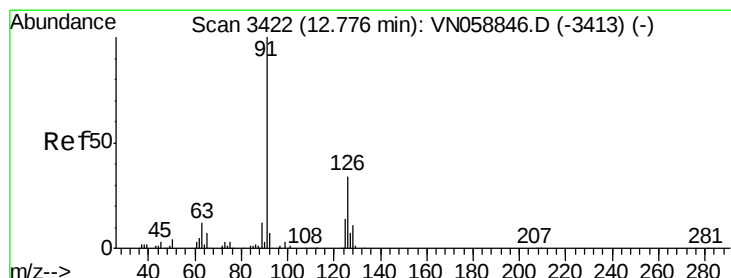
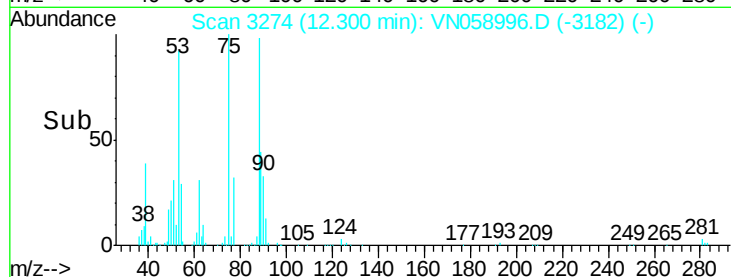
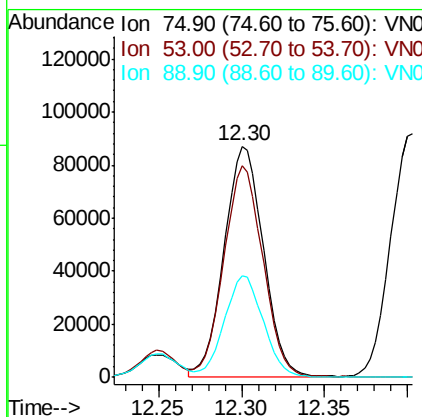
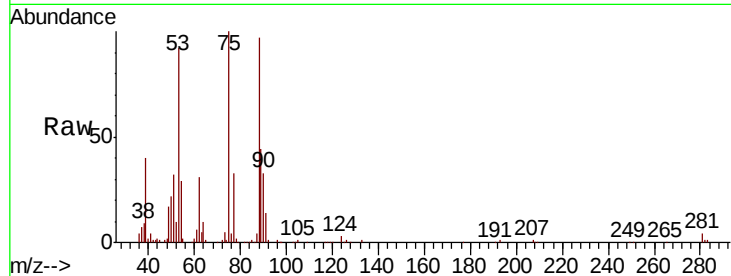
#81
trans-1,4-Dichloro-2-butene
Concen: 52.518 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	92.1	78.6	118.0
89	44.1	35.4	53.0

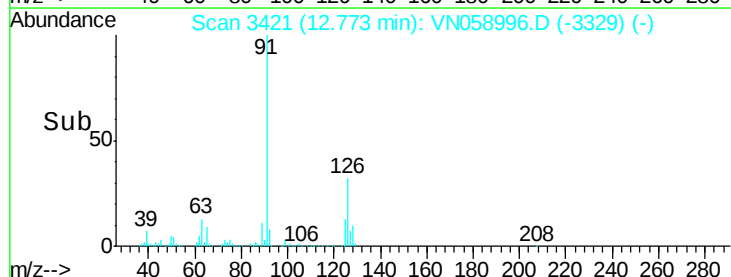
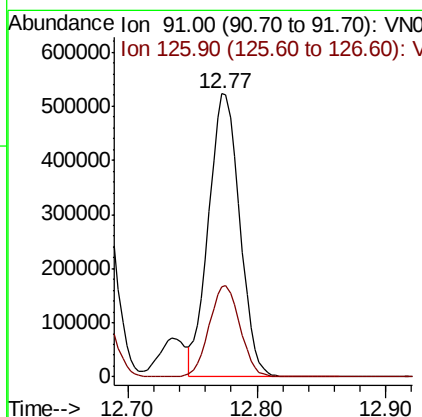
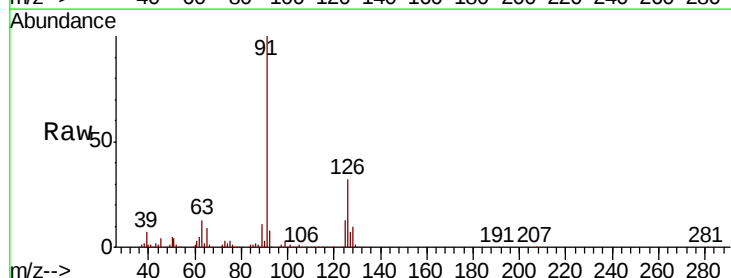
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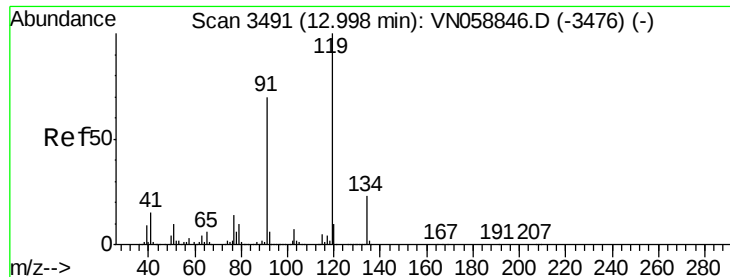
MMDadoda
10/30/2019 3:53:35 PM



#82
4-Chlorotoluene
Concen: 53.302 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.0	47.9





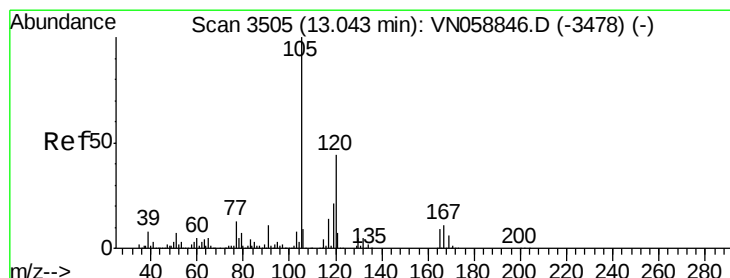
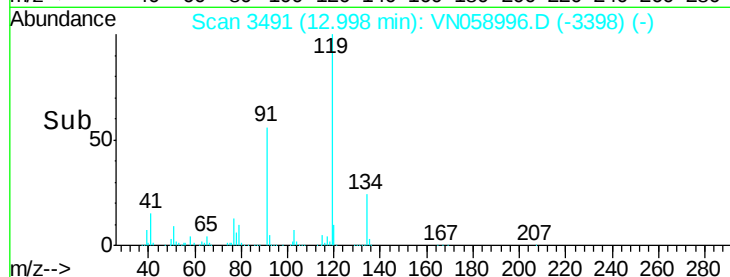
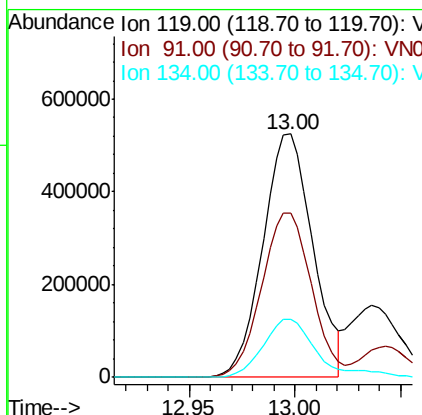
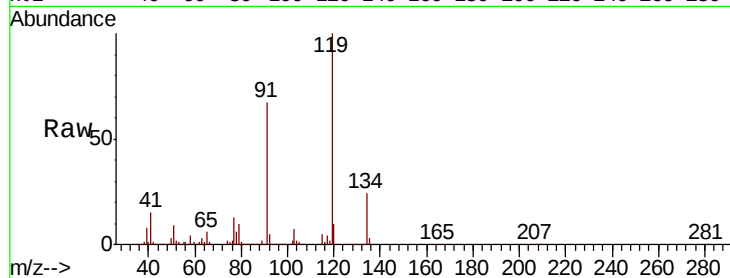
#83
tert-Butylbenzene
Concen: 54.200 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.3	34.1	102.3
134	25.8	11.6	34.8

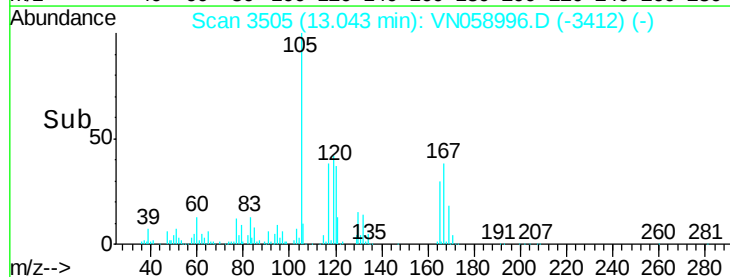
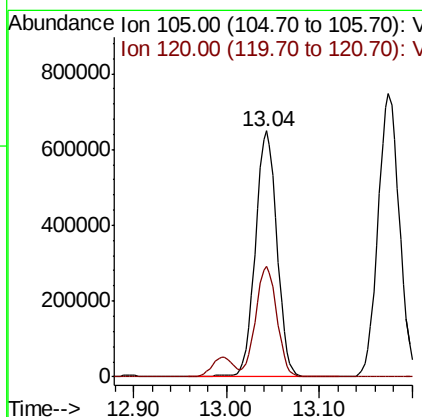
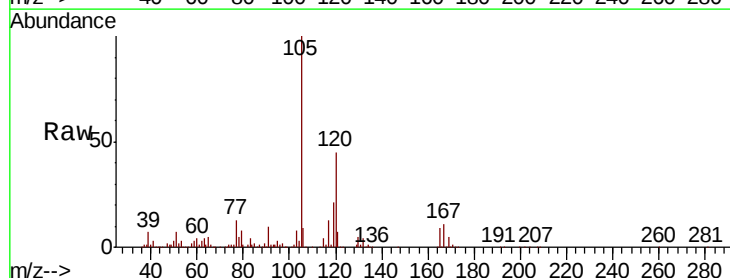
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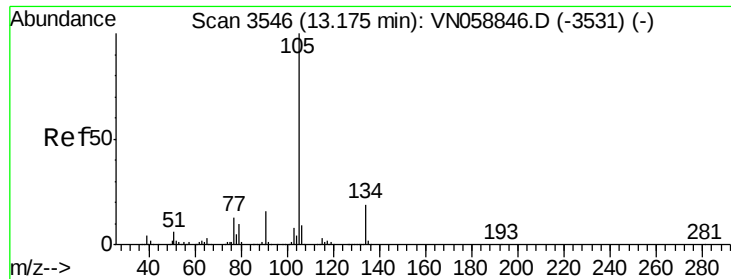
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 56.932 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.4	21.9	65.8





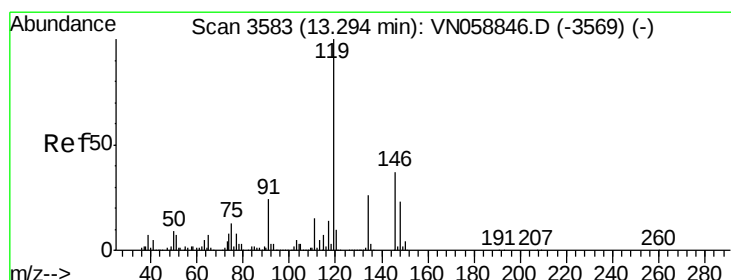
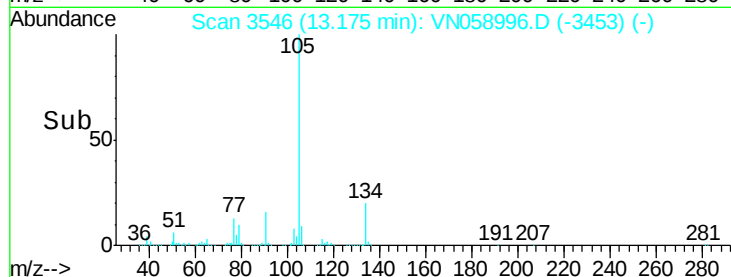
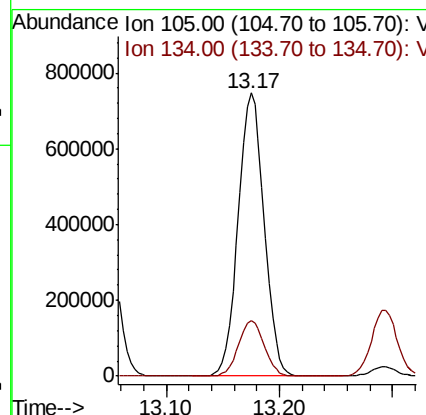
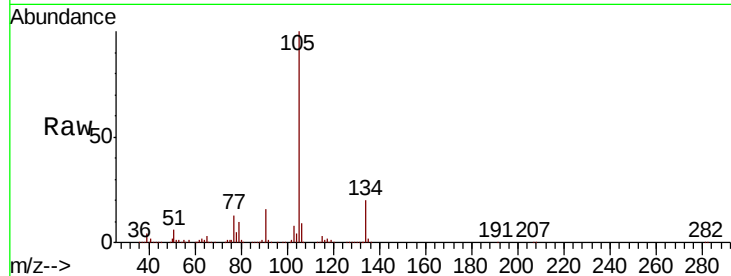
#85
 sec-Butylbenzene
 Concen: 55.973 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1190803
 Ion Ratio Lower Upper
 105 100
 134 19.5 9.4 28.2

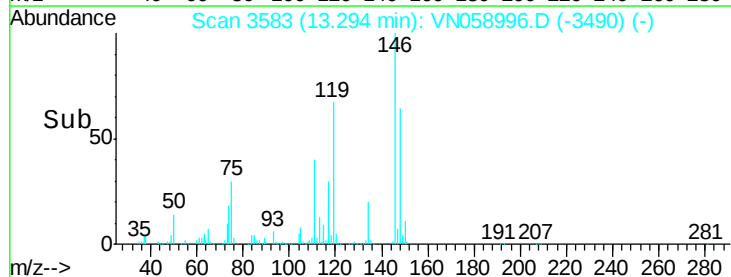
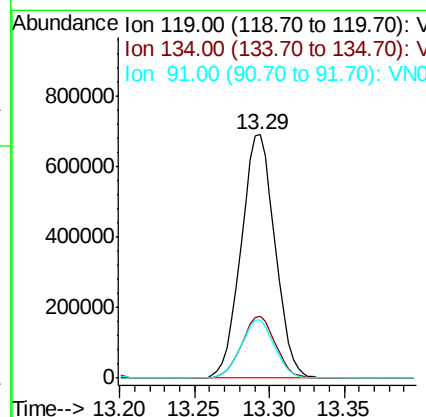
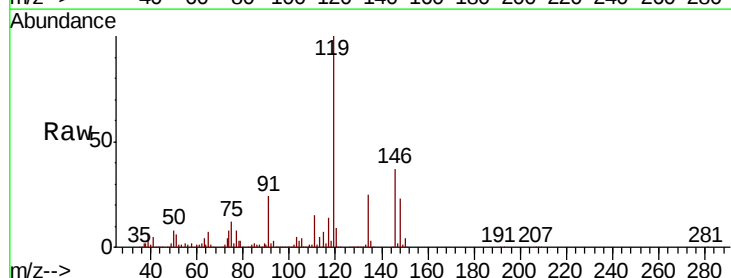
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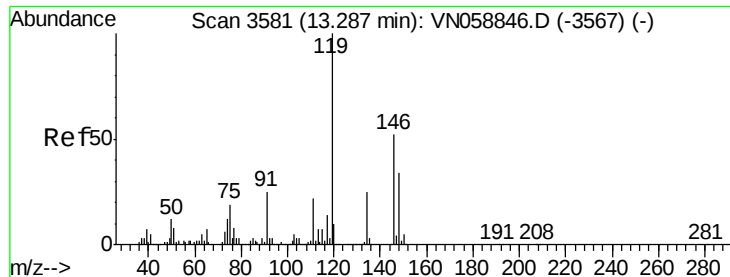
MMDadoda
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#86
 p-Isopropyltoluene
 Concen: 57.752 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Tgt Ion:119 Resp: 1084107
 Ion Ratio Lower Upper
 119 100
 134 25.6 12.8 38.4
 91 23.6 12.2 36.4





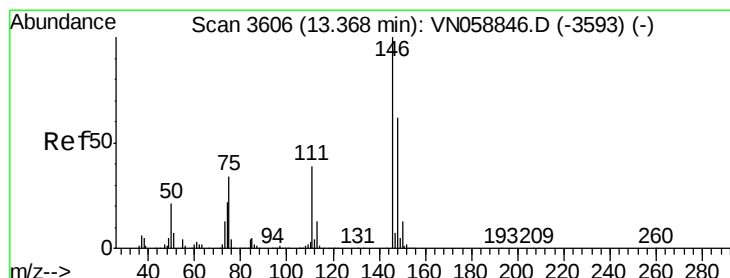
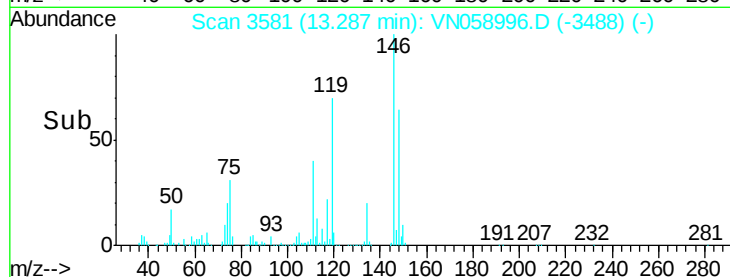
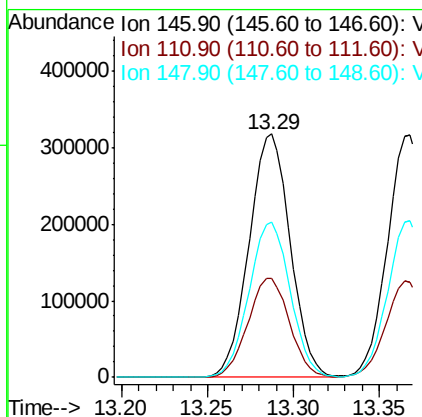
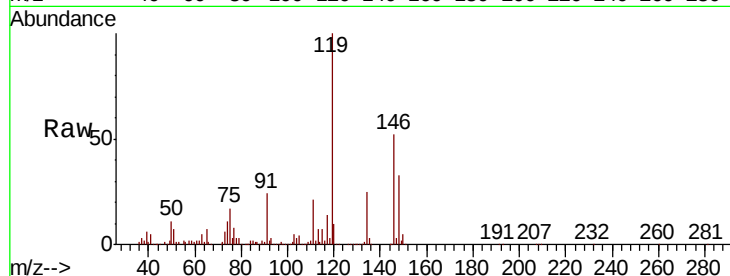
#87
 1,3-Dichlorobenzene
 Concen: 53.800 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	21.0	63.0
148	63.8	32.1	96.3

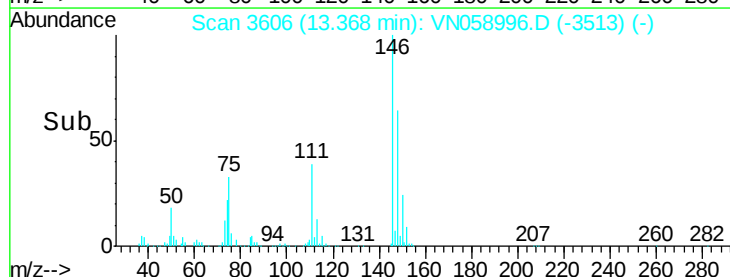
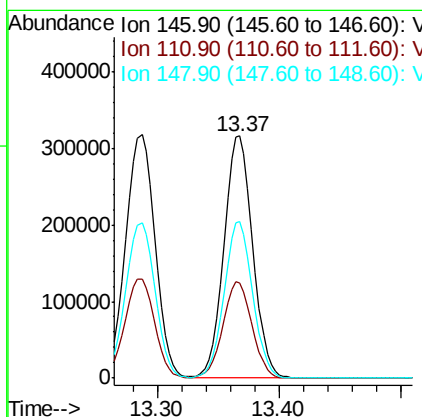
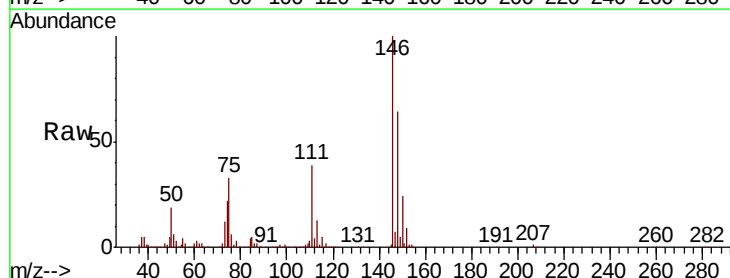
Manual Integrations
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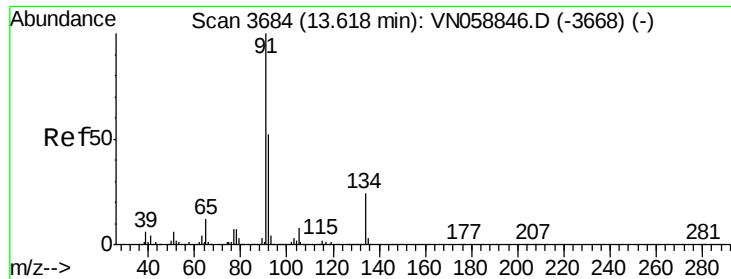
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 10/30/2019 3:53:35 PM



#88
 1,4-Dichlorobenzene
 Concen: 53.233 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.2	60.6
148	64.1	31.6	94.7





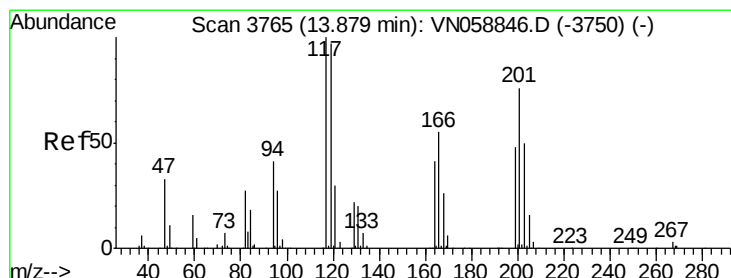
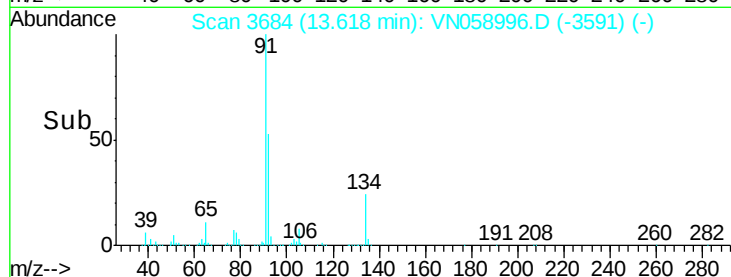
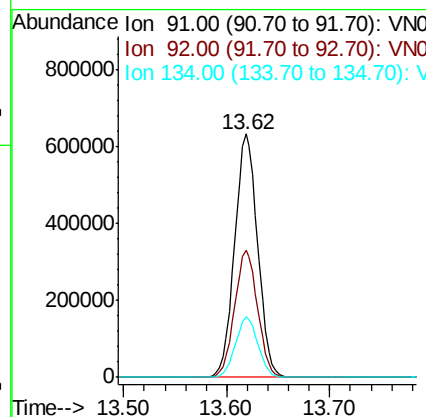
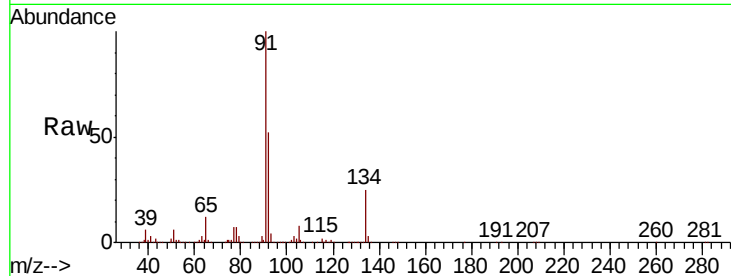
#89
n-Butylbenzene
Concen: 57.112 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	25.7	77.1
134	24.5	11.9	35.5

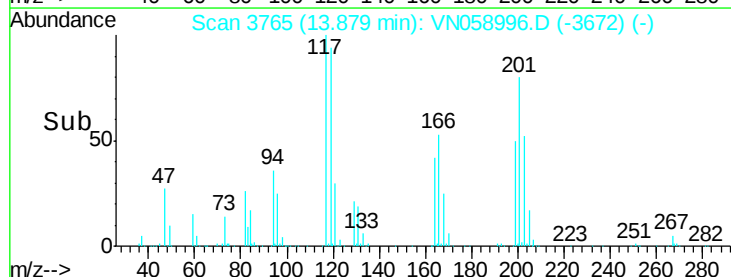
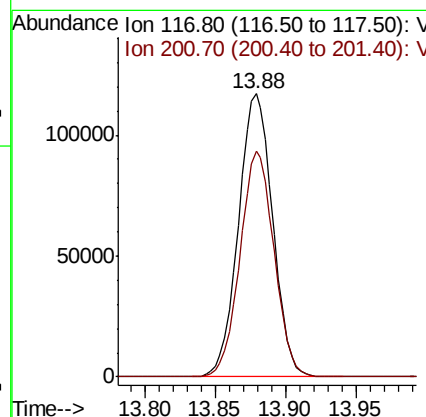
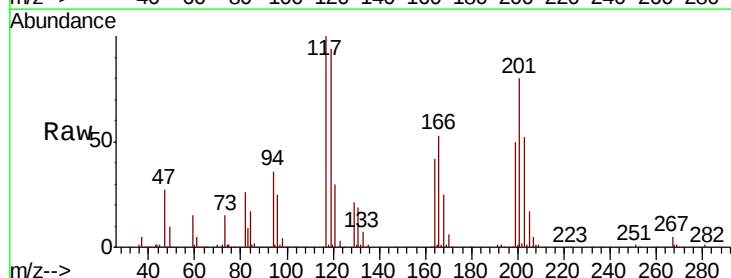
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#90
Hexachloroethane
Concen: 52.369 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN058996.D
Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.2	38.9	116.6





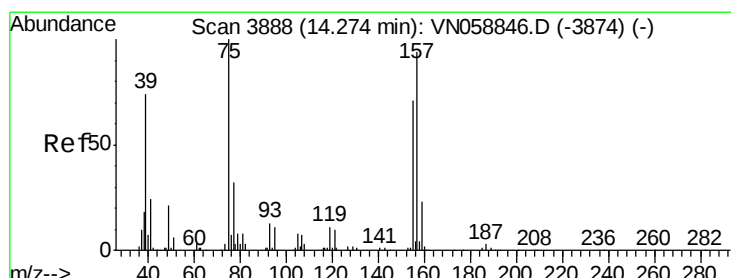
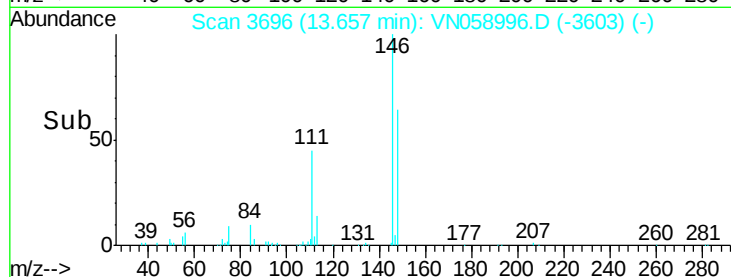
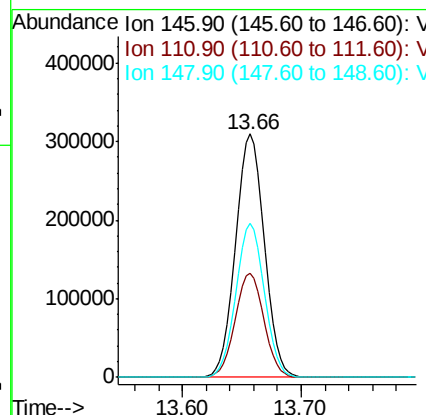
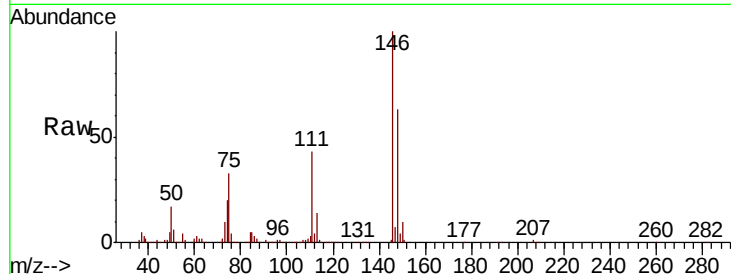
#91
 1,2-Dichlorobenzene
 Concen: 53.962 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.6	64.8
148	62.8	31.9	95.9

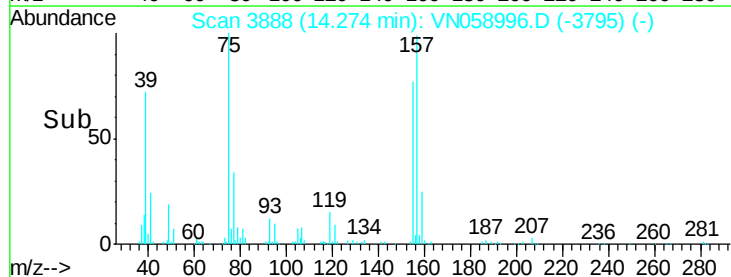
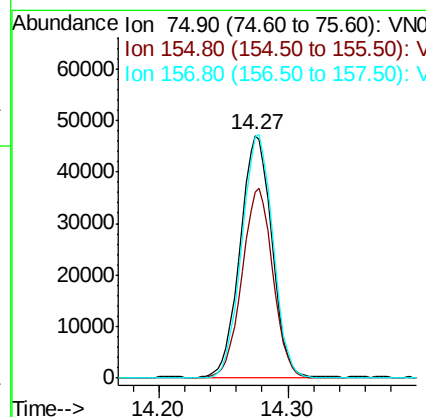
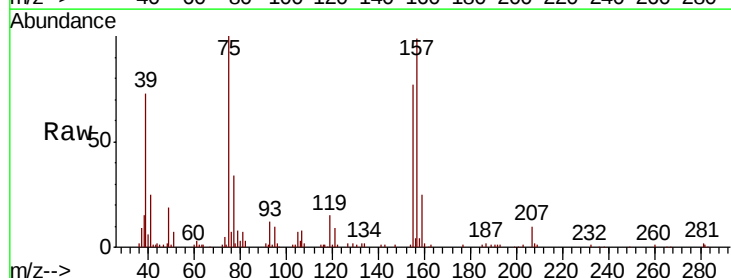
Manual Integrations
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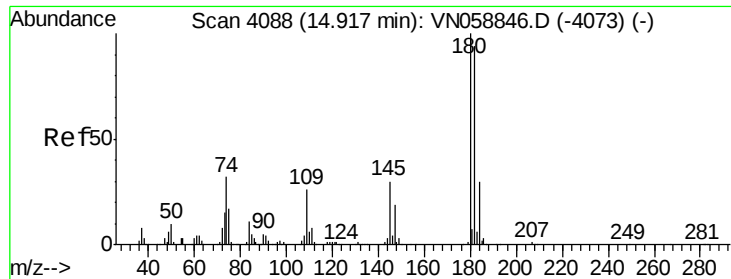
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 45.421 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.3	35.6	106.8
157	99.3	47.4	142.2





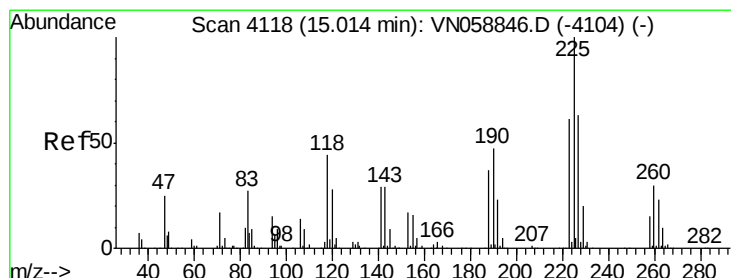
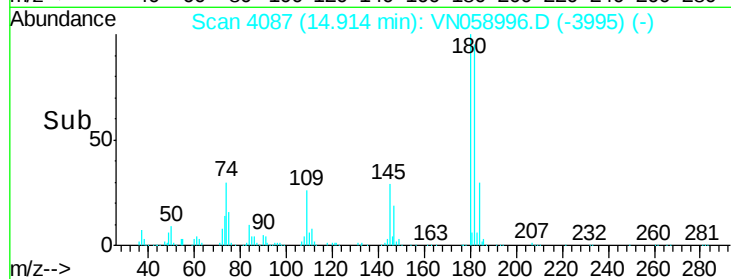
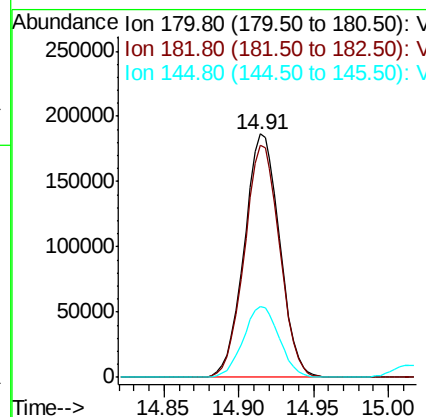
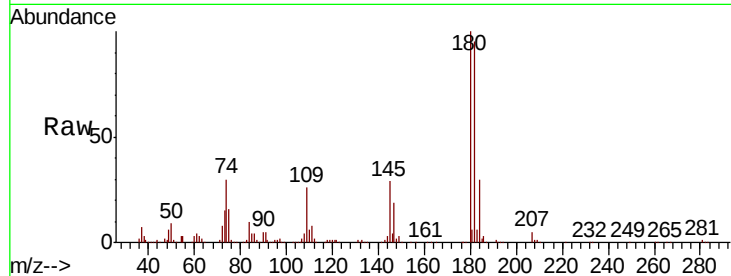
#93
 1,2,4-Trichlorobenzene
 Concen: 50.597 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.0	47.3	142.0	
145	29.5	15.3	45.8	

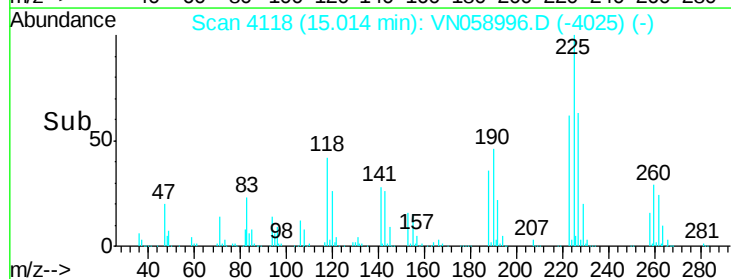
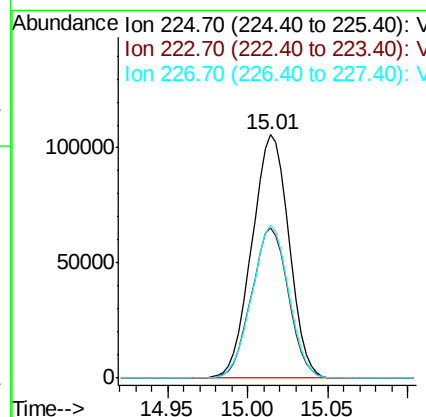
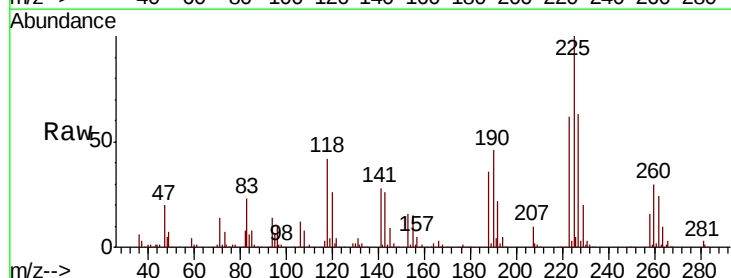
Manual Integrations
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 10/30/2019 3:53:35 PM



#94
 Hexachlorobutadiene
 Concen: 54.066 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN058996.D
 Acq: 29 Oct 2019 9:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.4	30.9	92.5	
227	62.2	31.6	94.7	





#95

Naphthalene

Concen: 47.737 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Instrument :

MSVOA_N

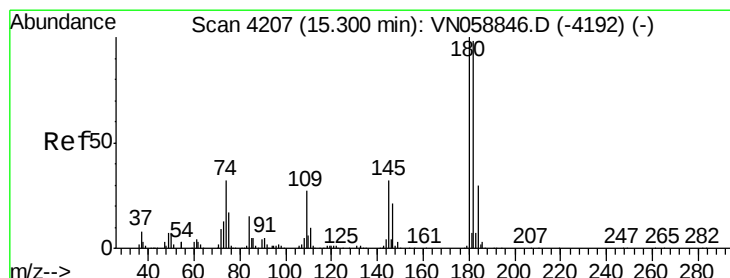
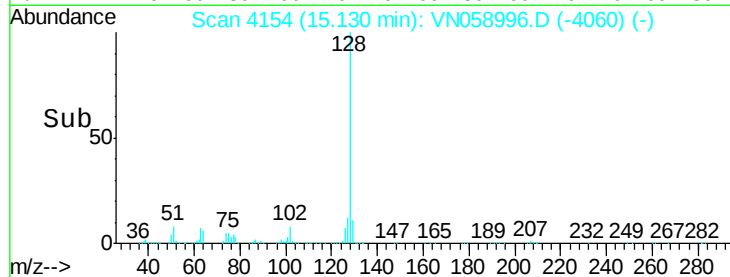
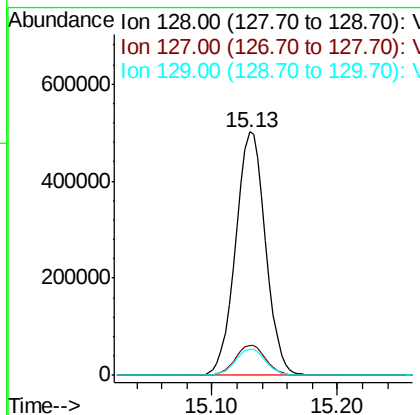
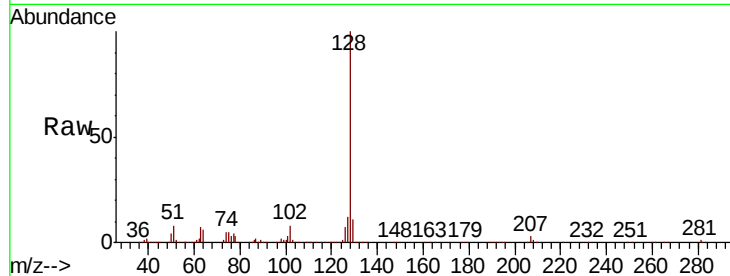
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	829136
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.2
129	10.9	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
10/30/2019 3:53:35 PM



#96

1,2,3-Trichlorobenzene

Concen: 49.908 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058996.D

Acq: 29 Oct 2019 9:36

Tgt Ion:	180	Resp:	294243
Ion Ratio	Lower	Upper	
180	100		
182	96.3	47.9	143.7
145	32.0	15.9	47.7

