

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020420\
 Data File : VN059992.D
 Acq On : 4 Feb 2020 14:25
 Operator : JC/MD
 Sample : VN0204WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 12:21:16 PM

Quant Time: Feb 05 02:24:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	191582	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	297393	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	272721	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	132581	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	111498	52.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.82%	
35) Dibromofluoromethane	7.57	113	90562	51.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.12%	
50) Toluene-d8	10.08	98	331688	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
62) 4-Bromofluorobenzene	12.40	95	124355	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	36277	15.702	ug/l	99
3) Chloromethane	2.04	50	37078	16.905	ug/l	100
4) Vinyl Chloride	2.17	62	47714	19.013	ug/l	98
5) Bromomethane	2.55	94	29080	18.988	ug/l	99
6) Chloroethane	2.69	64	21967	18.502	ug/l	94
7) Trichlorofluoromethane	3.00	101	57800	19.178	ug/l	97
8) Diethyl Ether	3.39	74	21919	20.723	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.74	101	33516	19.981	ug/l	93
10) Methyl Iodide	3.93	142	44305	16.341	ug/l	95
11) Tert butyl alcohol	4.73	59	38090	106.348	ug/l	99
12) 1,1-Dichloroethene	3.72	96	31120	17.755	ug/l	91
13) Acrolein	3.58	56	14188	55.960	ug/l	96
14) Allyl chloride	4.30	41	51248	21.692	ug/l	94
15) Acrylonitrile	4.95	53	86857	106.312	ug/l	98
16) Acetone	3.78	43	83903	110.019	ug/l	100
17) Carbon Disulfide	4.03	76	76695	15.360	ug/l	99
18) Methyl Acetate	4.29	43	54281	21.842	ug/l	93
19) Methyl tert-butyl Ether	5.00	73	123600	21.628	ug/l	97
20) Methylene Chloride	4.52	84	39819	19.908	ug/l	89
21) trans-1,2-Dichloroethene	5.01	96	35222	18.904	ug/l	86
22) Diisopropyl ether	5.92	45	114172	21.325	ug/l #	92
23) Vinyl Acetate	5.86	43	438980	105.900	ug/l	96
24) 1,1-Dichloroethane	5.82	63	65704	20.084	ug/l	98
25) 2-Butanone	6.80	43	120510	100.023	ug/l	95
26) 2,2-Dichloropropane	6.79	77	61670	19.609	ug/l	97
27) cis-1,2-Dichloroethene	6.80	96	43045	20.087	ug/l	90
28) Bromochloromethane	7.17	49	26227	20.059	ug/l #	78
29) Tetrahydrofuran	7.18	42	76967	103.249	ug/l	90
30) Chloroform	7.35	83	70627	20.837	ug/l	99
31) Cyclohexane	7.63	56	56041	17.803	ug/l #	88
32) 1,1,1-Trichloroethane	7.54	97	63728	20.334	ug/l	96
36) 1,1-Dichloropropene	7.77	75	49270	19.025	ug/l	96
37) Ethyl Acetate	6.90	43	47964	19.746	ug/l	95
38) Carbon Tetrachloride	7.75	117	54967	19.511	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020420\
 Data File : VN059992.D
 Acq On : 4 Feb 2020 14:25
 Operator : JC/MD
 Sample : VN0204WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0204WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 12:21:16 PM

Quant Time: Feb 05 02:24:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	57037	17.861	ug/l	95
40) Benzene	8.02	78	149489	19.355	ug/l	100
41) Methacrylonitrile	7.15	41	24001m	20.061	ug/l	
42) 1,2-Dichloroethane	8.10	62	56645	21.630	ug/l	98
43) Isopropyl Acetate	8.14	43	86524	20.709	ug/l	96
44) Trichloroethene	8.82	130	43078	20.431	ug/l	92
45) 1,2-Dichloropropane	9.10	63	40040	20.950	ug/l	97
46) Dibromomethane	9.19	93	28222	20.933	ug/l	93
47) Bromodichloromethane	9.39	83	57350	21.109	ug/l	98
48) Methyl methacrylate	9.18	41	37826	20.241	ug/l	91
49) 1,4-Dioxane	9.18	88	15463	451.987	ug/l	90
51) 4-Methyl-2-Pentanone	9.97	43	255731	105.885	ug/l	96
52) Toluene	10.14	92	96873	19.856	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	64240	21.176	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	66161	20.728	ug/l	94
55) 1,1,2-Trichloroethane	10.55	97	41082	21.261	ug/l	98
56) Ethyl methacrylate	10.42	69	58758	19.901	ug/l	94
57) 1,3-Dichloropropane	10.70	76	66886	21.804	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	97164	109.260	ug/l	94
59) 2-Hexanone	10.74	43	184305	103.585	ug/l	95
60) Dibromochloromethane	10.89	129	45881	20.852	ug/l	99
61) 1,2-Dibromoethane	11.00	107	42077	20.777	ug/l	100
64) Tetrachloroethene	10.62	164	42944	19.321	ug/l	96
65) Chlorobenzene	11.43	112	106835	19.930	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	42312	20.428	ug/l	97
67) Ethyl Benzene	11.50	91	191462	19.676	ug/l	99
68) m/p-Xylenes	11.62	106	141484	38.491	ug/l	95
69) o-Xylene	11.94	106	70280	19.530	ug/l	94
70) Styrene	11.96	104	112822	18.736	ug/l	98
71) Bromoform	12.12	173	34111	20.560	ug/l #	100
73) Isopropylbenzene	12.25	105	185609	19.089	ug/l	100
74) N-amyl acetate	12.07	43	71855	19.045	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	57281	20.321	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	55598m	24.918	ug/l	
77) Bromobenzene	12.52	156	48859	19.842	ug/l	84
78) n-propylbenzene	12.59	91	212729	19.492	ug/l	98
79) 2-Chlorotoluene	12.67	91	126963	19.555	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	158161	19.341	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	20732	19.954	ug/l	98
82) 4-Chlorotoluene	12.77	91	130316	20.012	ug/l	96
83) tert-Butylbenzene	12.99	119	137741	19.476	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	158530	19.596	ug/l	99
85) sec-Butylbenzene	13.17	105	180467	19.422	ug/l	99
86) p-Isopropyltoluene	13.29	119	165397	19.237	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	85171	19.913	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	85286	19.988	ug/l	97
89) n-Butylbenzene	13.61	91	143394	19.560	ug/l	98
90) Hexachloroethane	13.87	117	30063	18.688	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	84982	20.097	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	12977	20.204	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020420\
Data File : VN059992.D
Acq On : 4 Feb 2020 14:25
Operator : JC/MD
Sample : VN0204WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

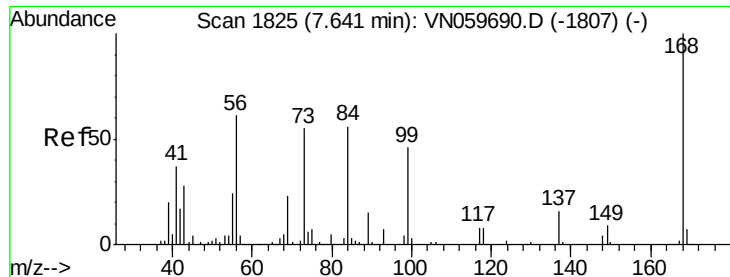
Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM

Quant Time: Feb 05 02:24:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	51460	20.253	ug/l	98
94) Hexachlorobutadiene	15.01	225	27670	19.762	ug/l	98
95) Naphthalene	15.13	128	148999	20.617	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	51218	20.710	ug/l	99

(#) = 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: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD01

Tot Ion:168 Resp: 191582

Ion Ratio Lower Upper

168 100

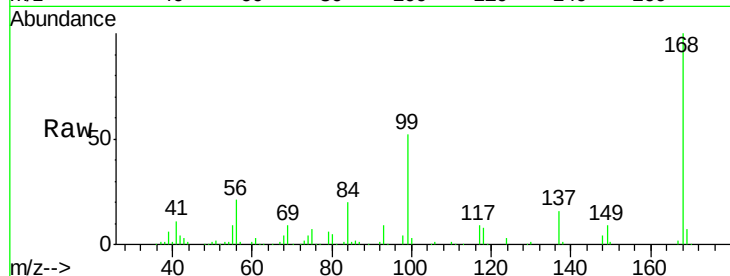
99 52.3 48.2 72.4

Manual Integrations

APPROVED

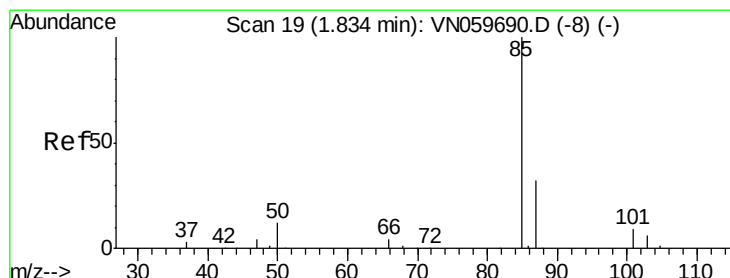
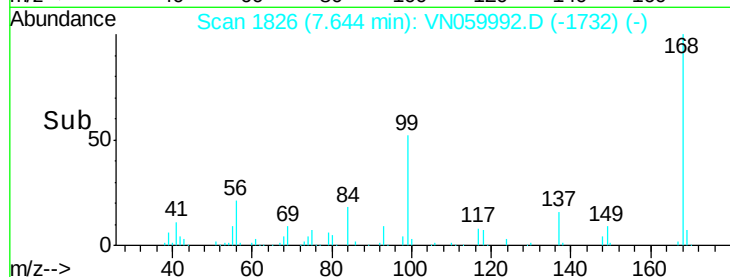
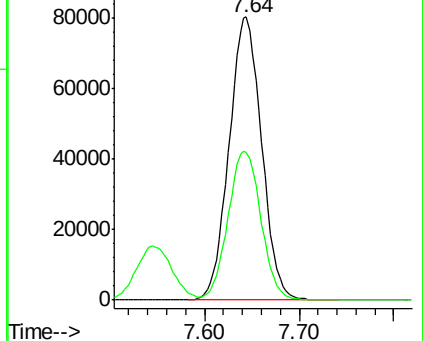
MMDadoda

2/5/2020 12:21:16 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 15.702 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059992.D

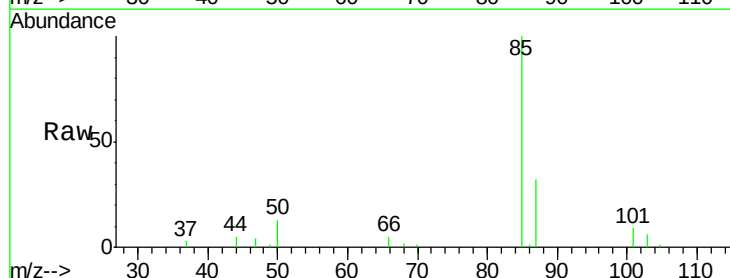
Acq: 4 Feb 2020 14:25

Tgt Ion: 85 Resp: 36277

Ion Ratio Lower Upper

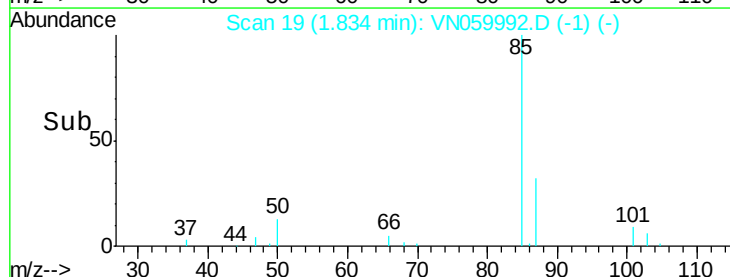
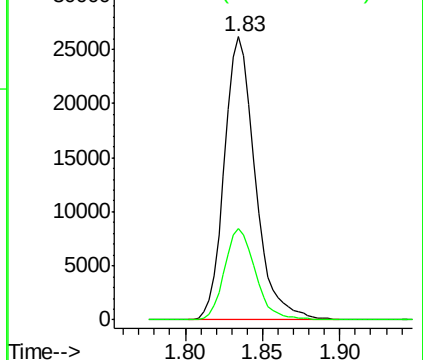
85 100

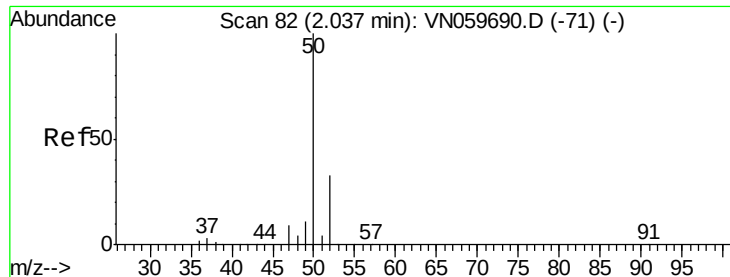
87 32.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#3

Chloromethane

Concen: 16.905 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD01

Tot Ion: 50 Resp: 37078

Ion Ratio Lower Upper

50 100

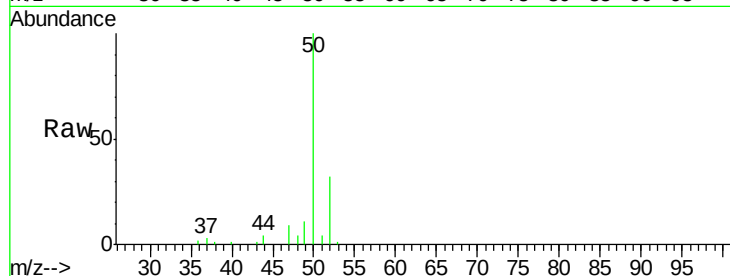
52 32.2 25.9 38.9

Manual Integrations

APPROVED

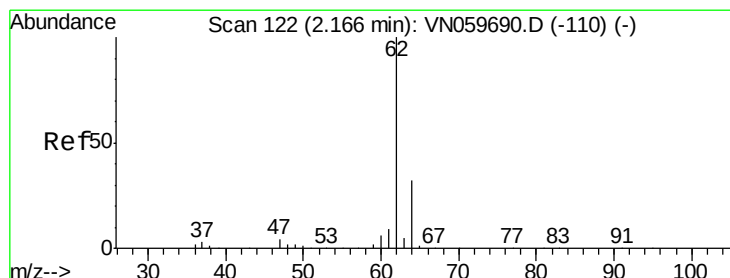
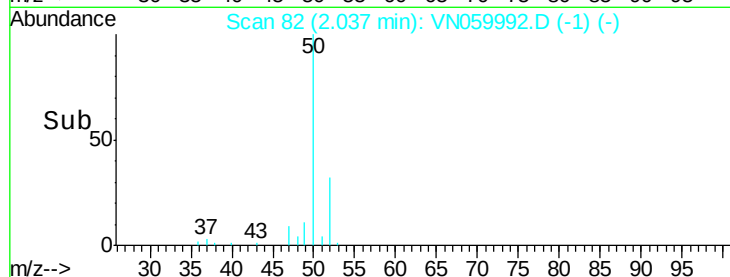
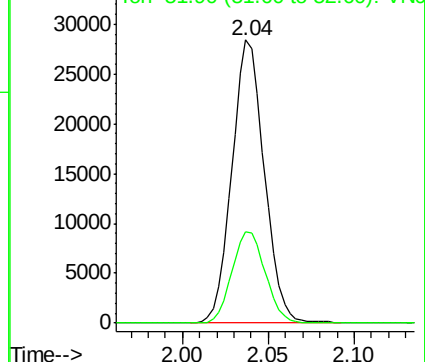
MMDadoda

2/5/2020 12:21:16 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 19.013 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.00 min

Lab File: VN059992.D

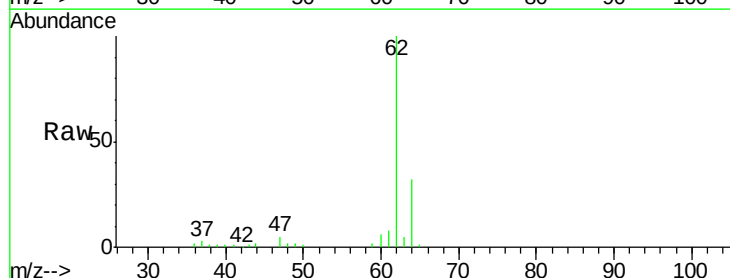
Acq: 4 Feb 2020 14:25

Tgt Ion: 62 Resp: 47714

Ion Ratio Lower Upper

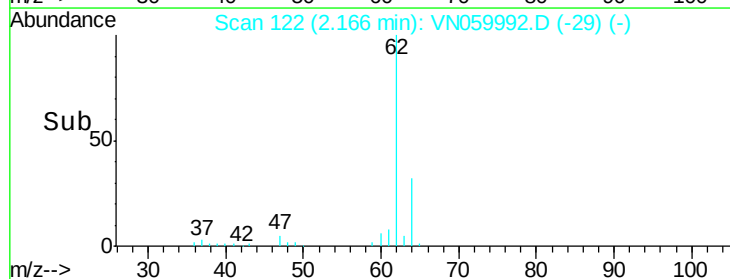
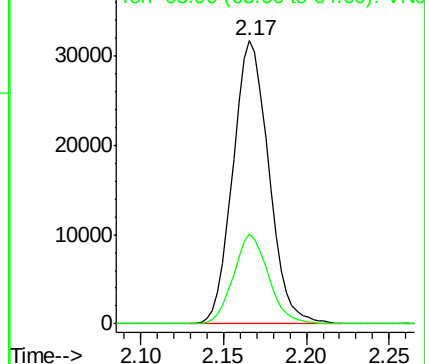
62 100

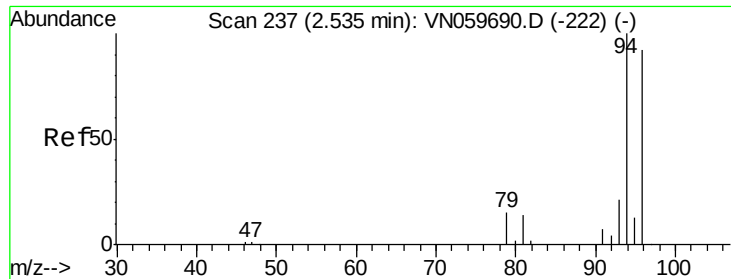
64 31.7 24.6 37.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





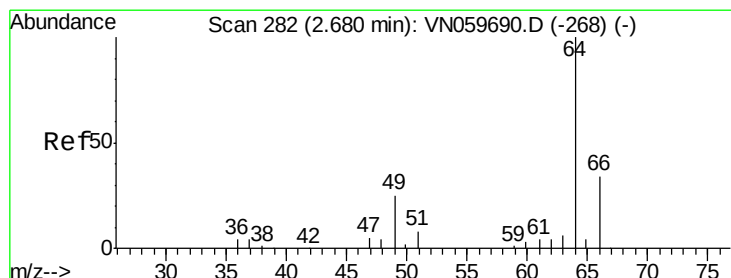
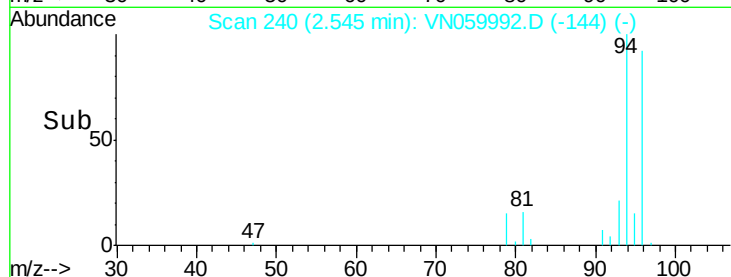
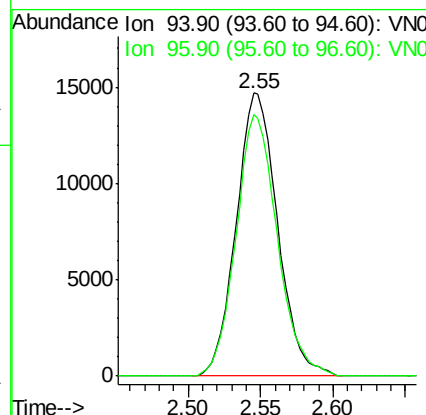
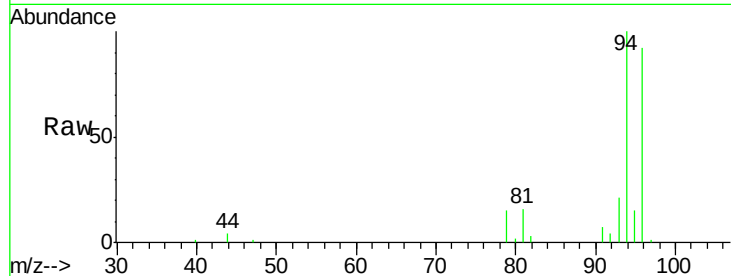
#5
Bromomethane
Concen: 18.988 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.01 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion: 94 Resp: 29080
Ion Ratio Lower Upper
94 100
96 92.4 74.7 112.1

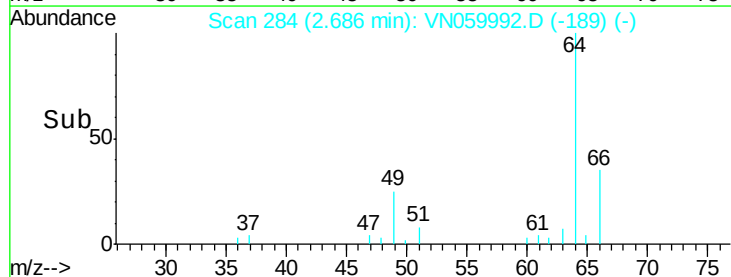
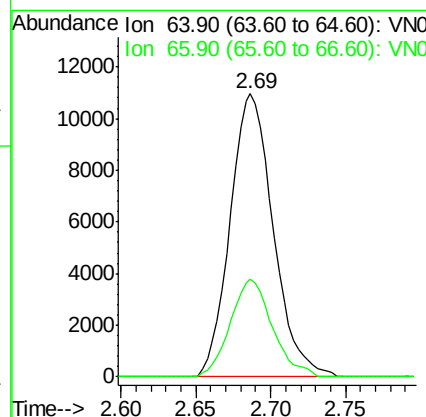
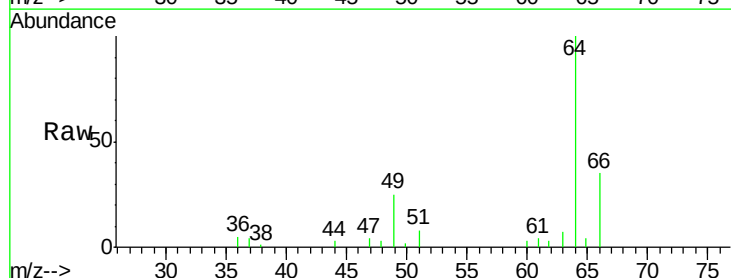
Manual Integrations
APPROVED

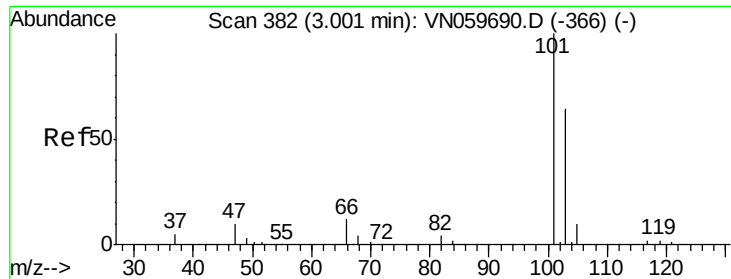
MMDadoda
2/5/2020 12:21:16 PM



#6
Chloroethane
Concen: 18.502 ug/l
RT: 2.69 min Scan# 284
Delta R.T. 0.01 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion: 64 Resp: 21967
Ion Ratio Lower Upper
64 100
66 34.5 25.1 37.7





#7

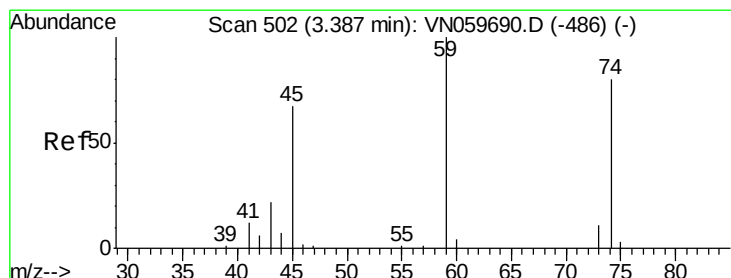
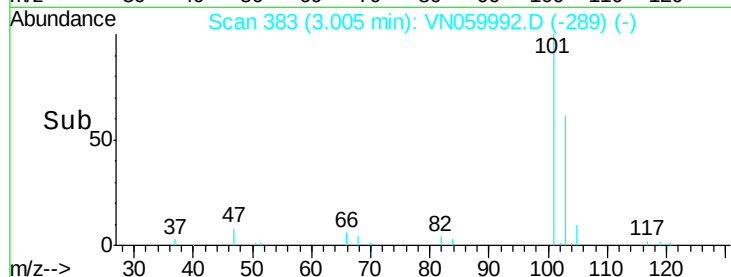
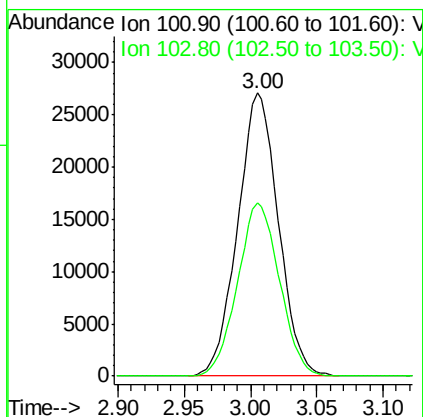
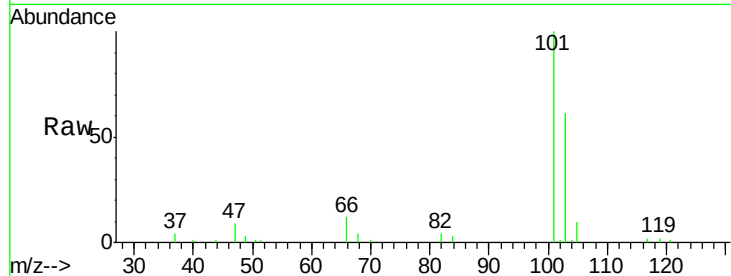
Trichlorofluoromethane
Concen: 19.178 ug/l
RT: 3.00 min Scan# 383
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		57800		
103	61.1	51.0	76.6		

Manual Integrations
APPROVED

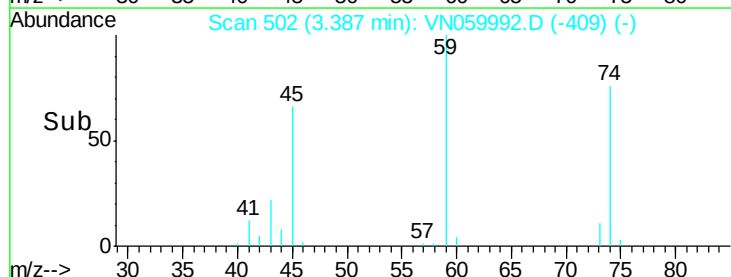
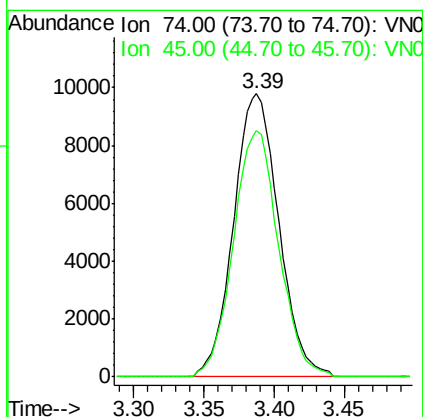
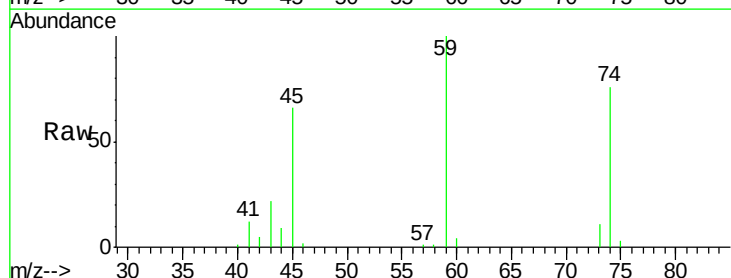
MMDadoda
2/5/2020 12:21:16 PM

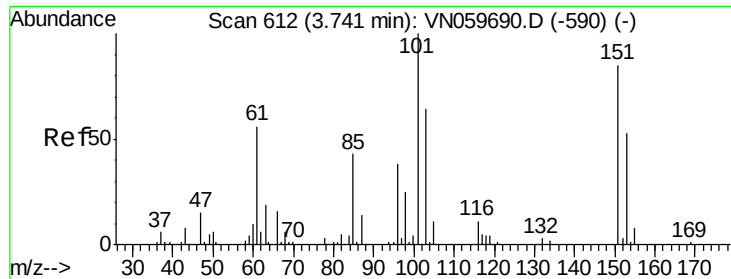


#8

Diethyl Ether
Concen: 20.723 ug/l
RT: 3.39 min Scan# 502
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		21919		
45	87.2	51.9	155.8		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.981 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

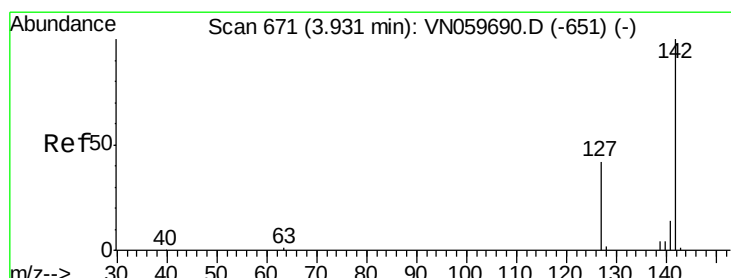
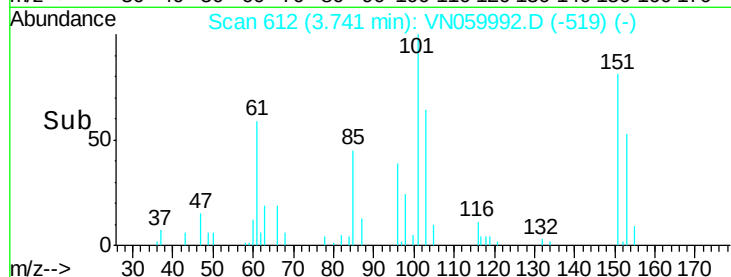
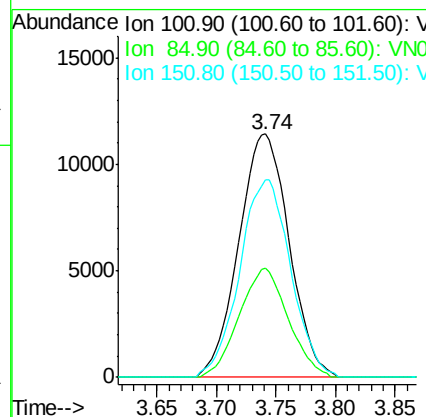
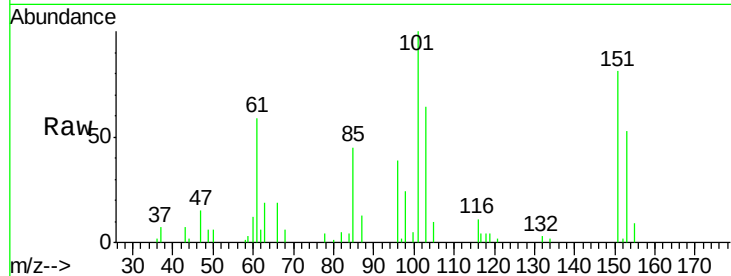
ClientSampleId :

VN0204WBSD01

Tot Ion:	101	Resp:	33516
Ion Ratio	Lower	Upper	
101	100		
85	43.5	36.6	54.8
151	82.0	59.7	89.5

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#10

Methyl Iodide

Concen: 16.341 ug/l

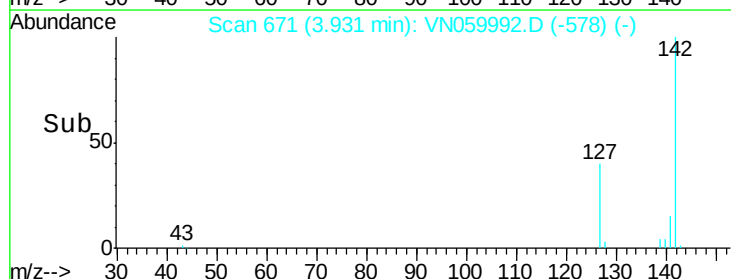
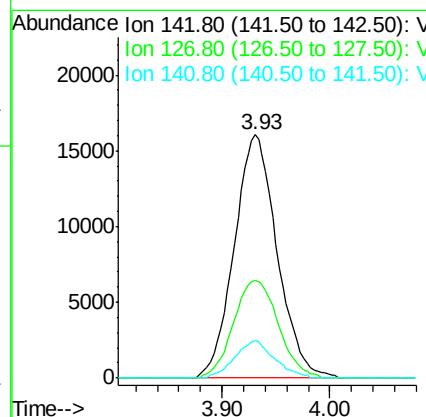
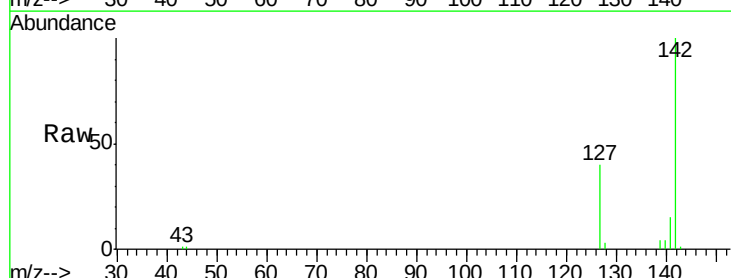
RT: 3.93 min Scan# 671

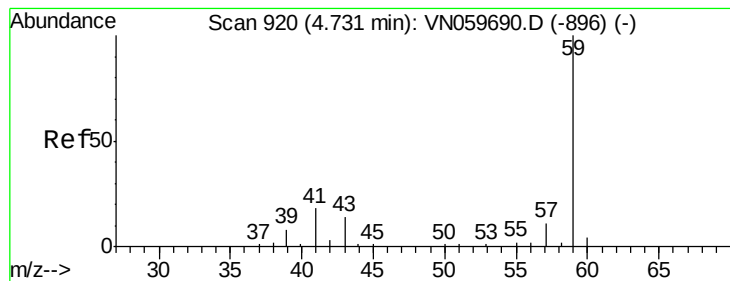
Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion:	142	Resp:	44305
Ion Ratio	Lower	Upper	
142	100		
127	42.1	36.7	55.1
141	14.2	11.7	17.5





#11

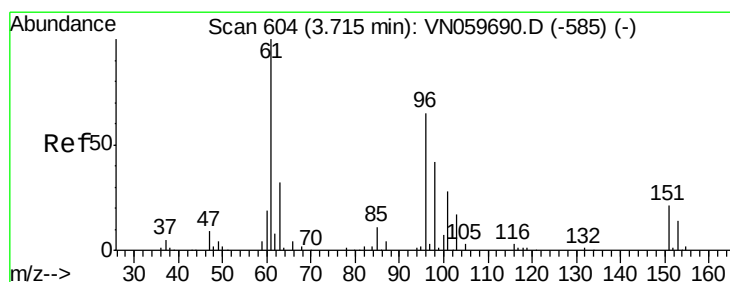
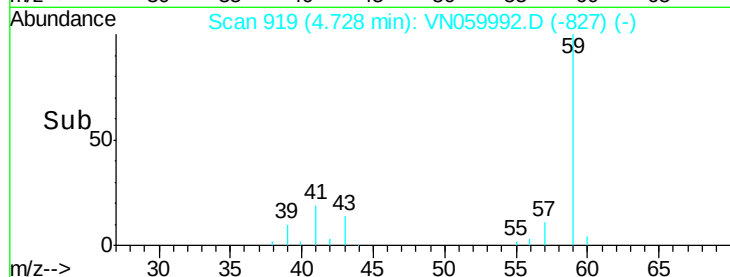
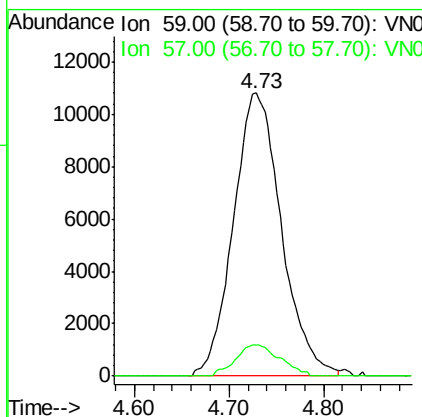
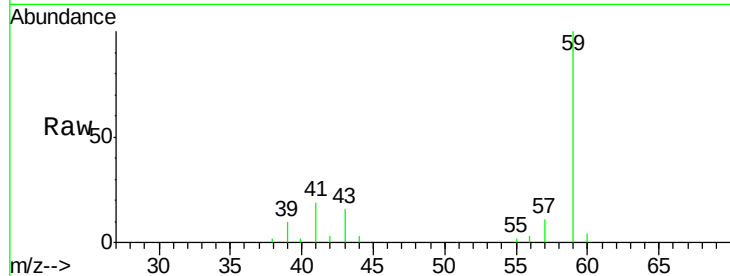
Tert butyl alcohol
 Concen: 106.348 ug/l
 RT: 4.73 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.6	12.8

Manual Integrations
 APPROVED

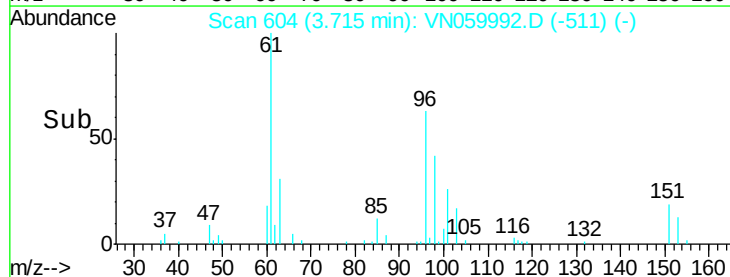
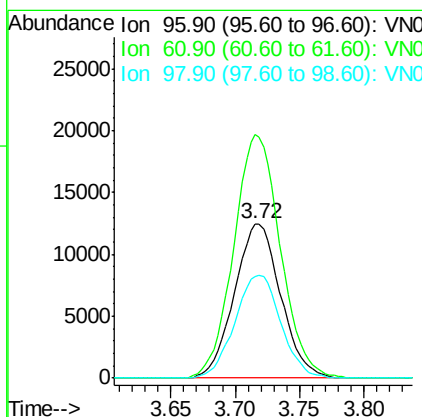
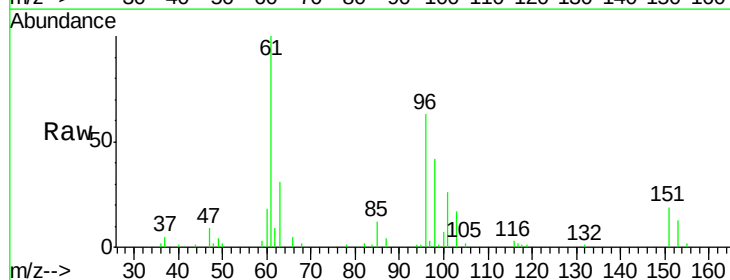
MMDadoda
 2/5/2020 12:21:16 PM

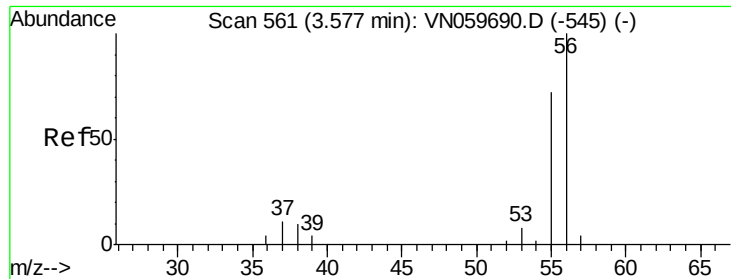


#12

1,1-Dichloroethene
 Concen: 17.755 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.7	137.5	206.3
98	65.8	50.2	75.4





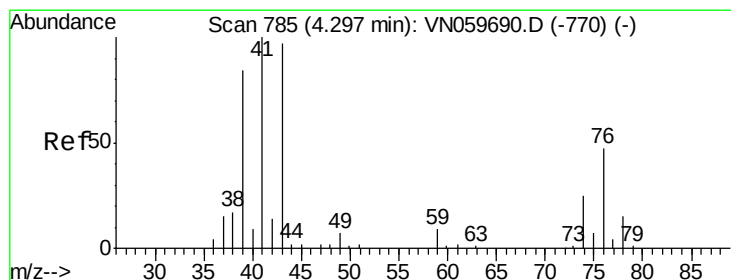
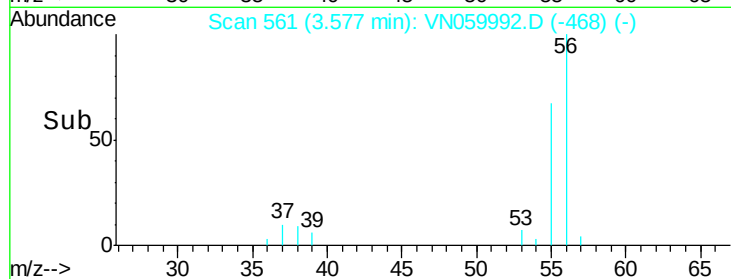
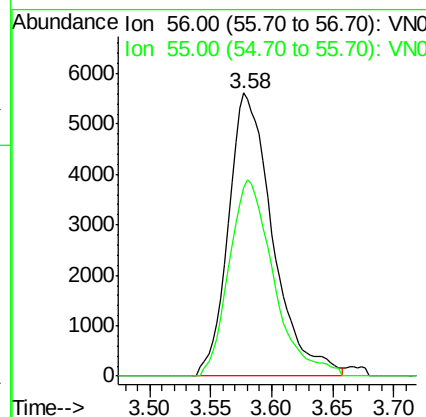
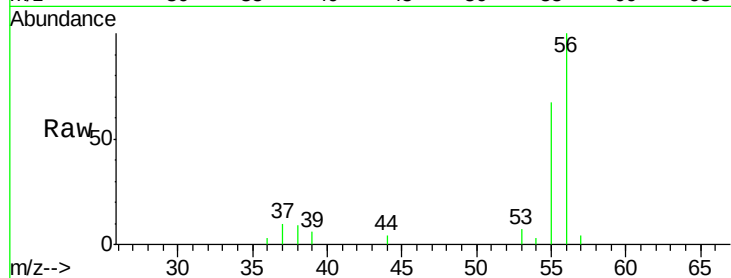
#13
Acrolein
Concen: 55.960 ug/l
RT: 3.58 min Scan# 561
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion: 56 Resp: 14188
Ion Ratio Lower Upper
56 100
55 69.7 58.6 88.0

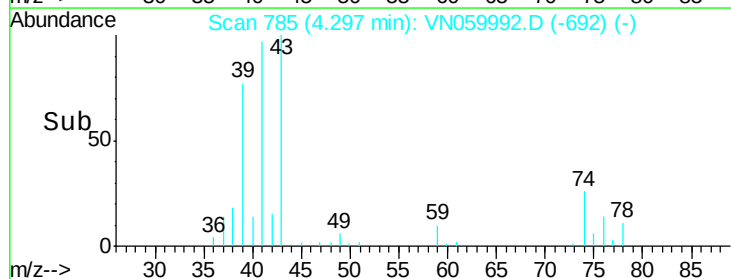
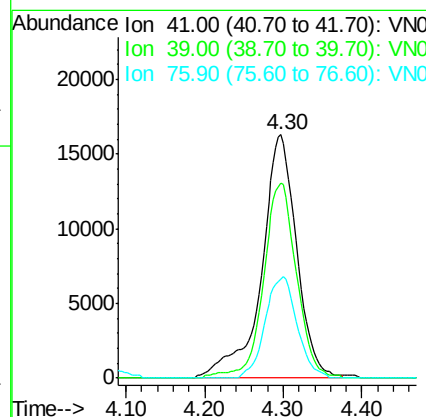
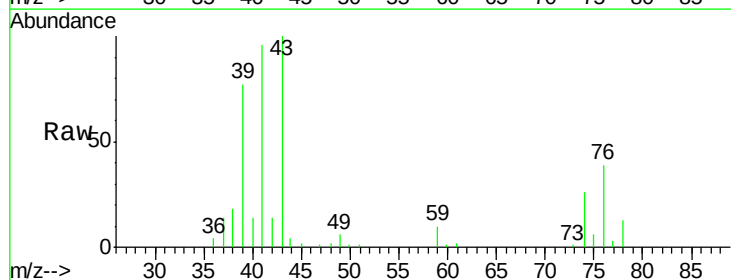
Manual Integrations
APPROVED

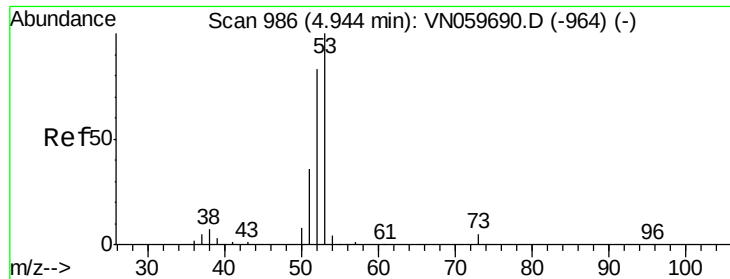
MMDadoda
2/5/2020 12:21:16 PM



#14
Allyl chloride
Concen: 21.692 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion: 41 Resp: 51248
Ion Ratio Lower Upper
41 100
39 75.3 57.8 86.8
76 37.9 25.4 38.0





#15

Acrylonitrile

Concen: 106.312 ug/l

RT: 4.95 min Scan# 987

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

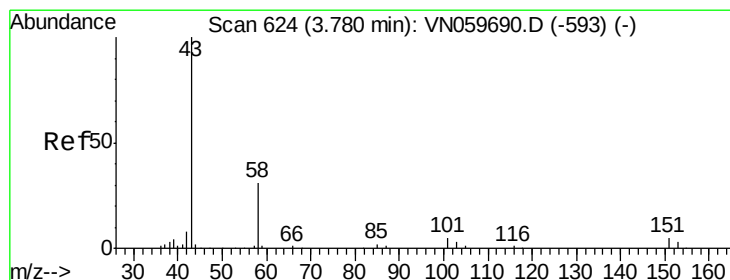
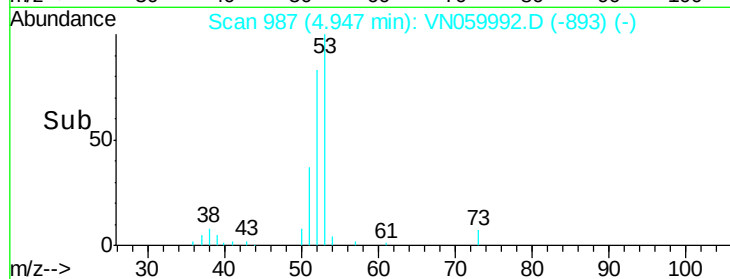
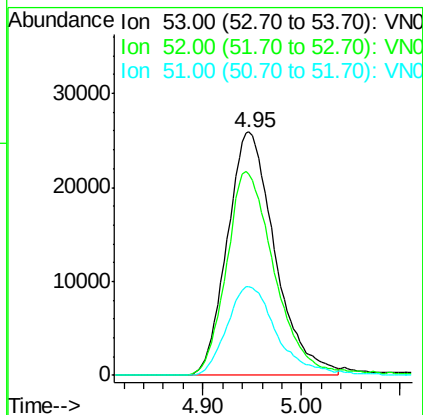
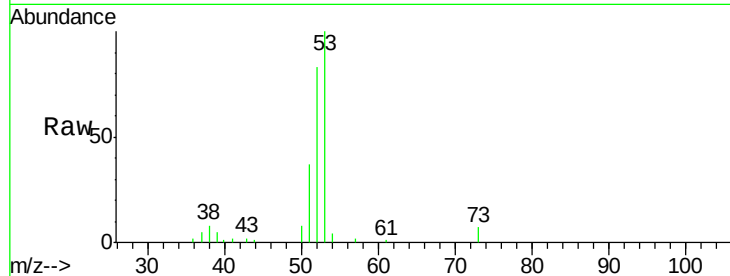
ClientSampled :

VN0204WBSD01

Tot Ion:	53	Resp:	86857
Ion Ratio	Lower	Upper	
53	100		
52	84.6	66.3	99.5
51	38.4	29.7	44.5

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#16

Acetone

Concen: 110.019 ug/l

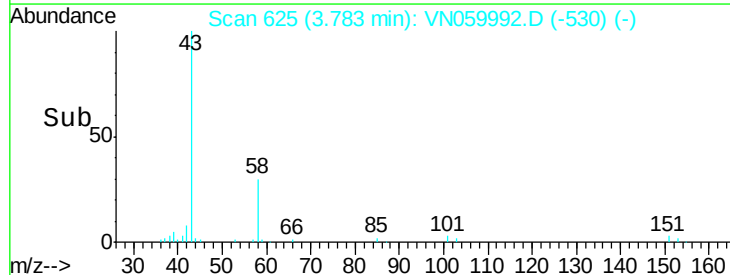
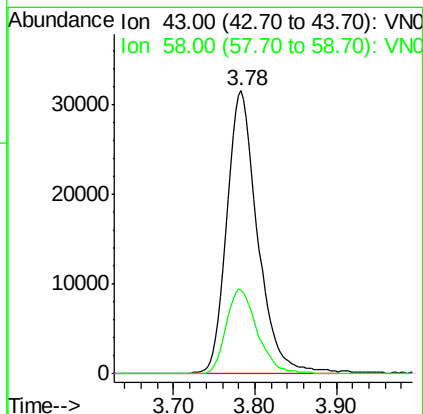
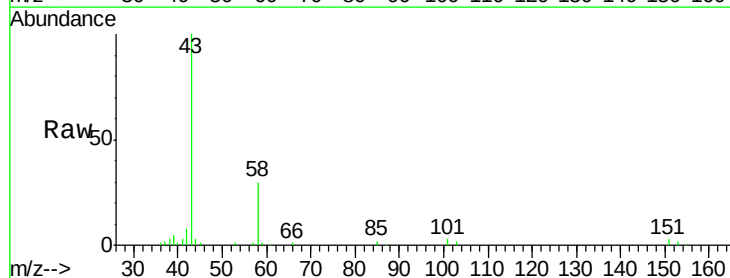
RT: 3.78 min Scan# 625

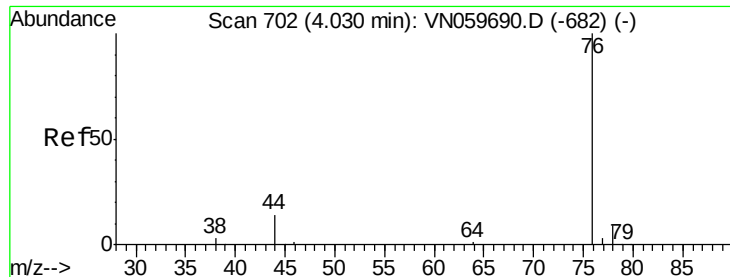
Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion:	43	Resp:	83903
Ion Ratio	Lower	Upper	
43	100		
58	29.7	23.6	35.4





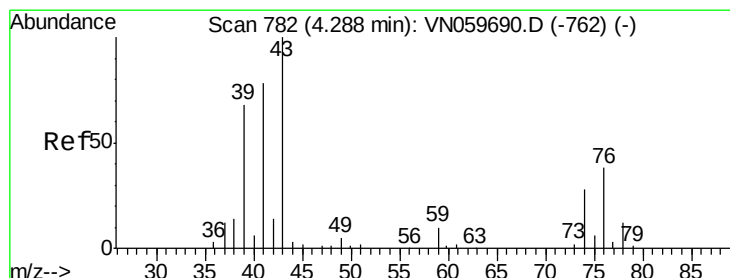
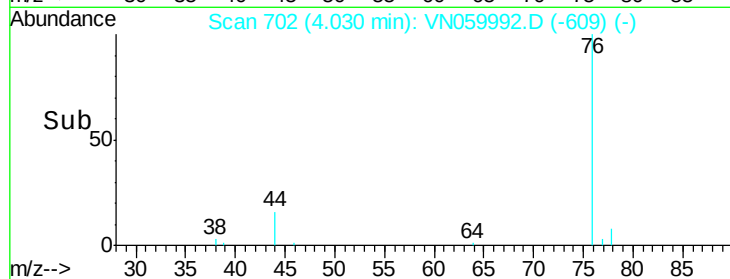
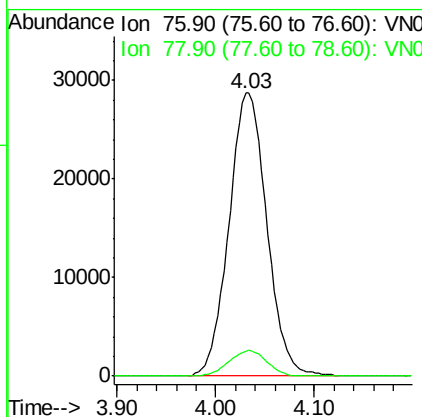
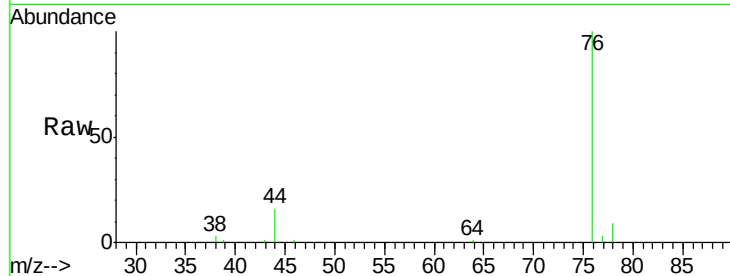
#17
Carbon Disulfide
Concen: 15.360 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.4	11.0

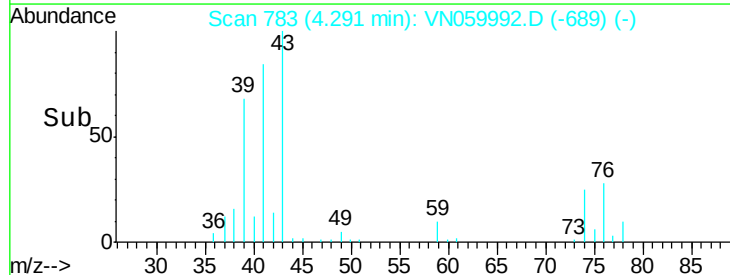
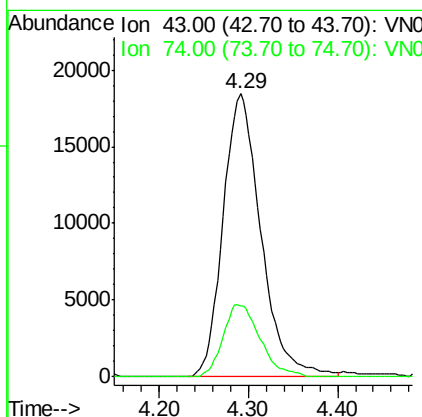
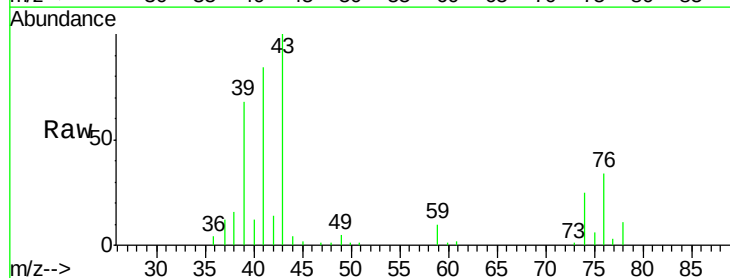
Manual Integrations
APPROVED

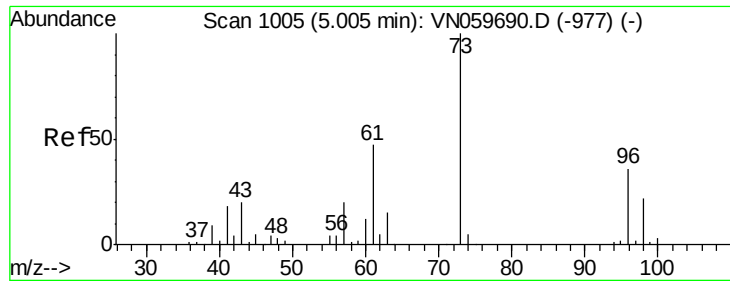
MMDadoda
2/5/2020 12:21:16 PM



#18
Methyl Acetate
Concen: 21.842 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.1	17.5	26.3





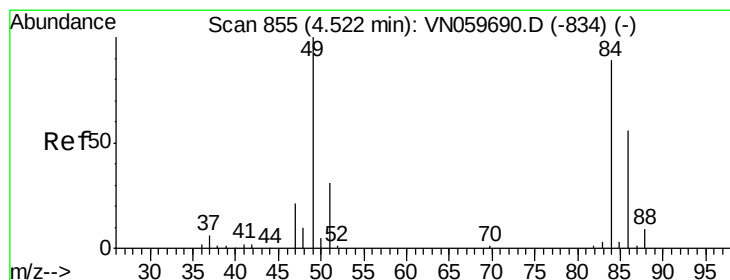
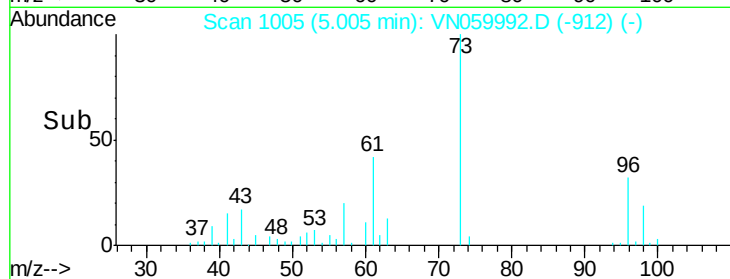
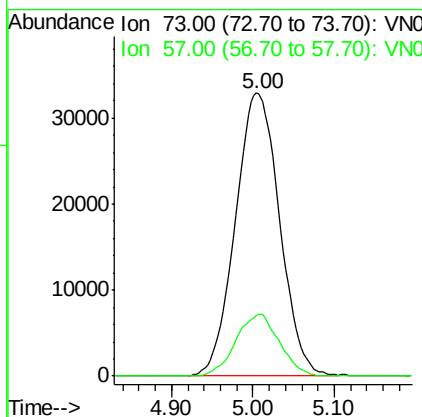
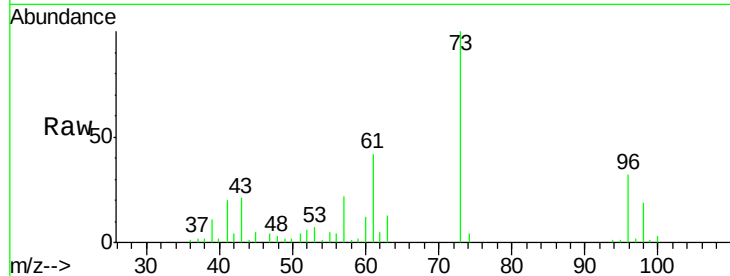
#19
Methvl tert-butyl Ether
Concen: 21.628 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0204WBSD01

Tot Ion: 73 Resp: 123600
Ion Ratio Lower Upper
73 100
57 21.6 18.6 27.8

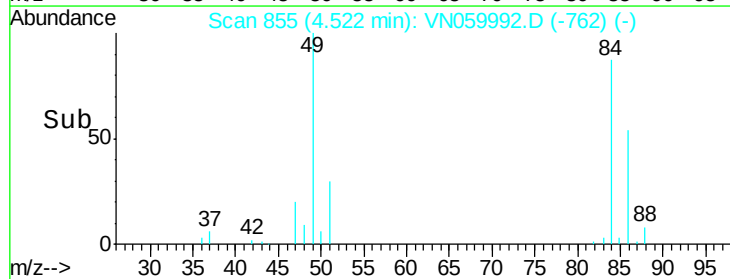
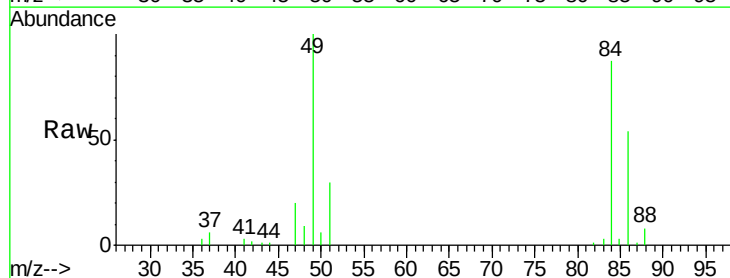
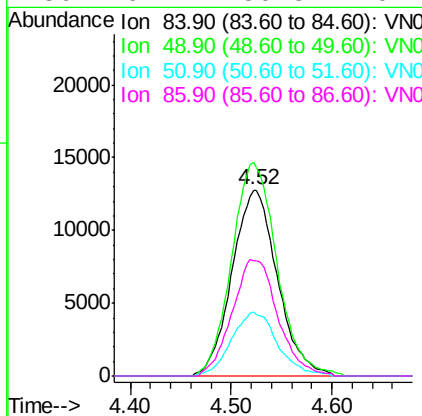
Manual Integrations
APPROVED

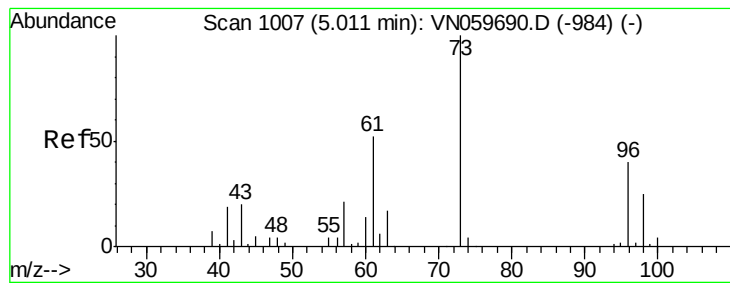
MMDadoda
2/5/2020 12:21:16 PM



#20
Methylene Chloride
Concen: 19.908 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion: 84 Resp: 39819
Ion Ratio Lower Upper
84 100
49 114.7 106.6 160.0
51 34.1 31.9 47.9
86 62.1 50.8 76.2





#21

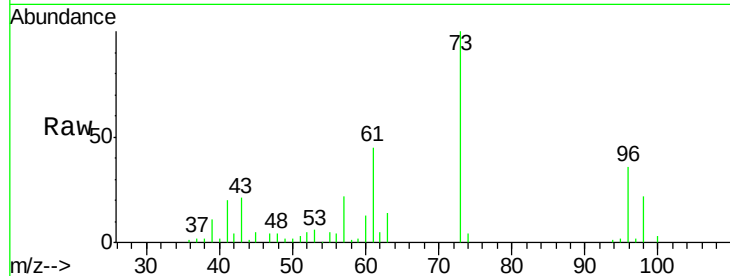
trans-1,2-Dichloroethene
Concen: 18.904 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0204WBSD01

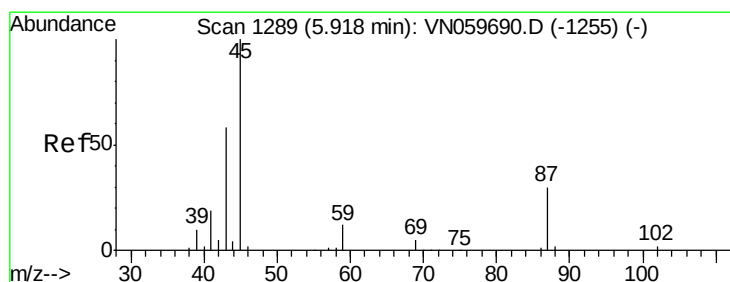
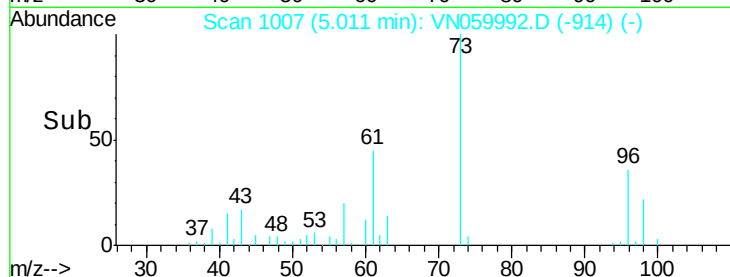
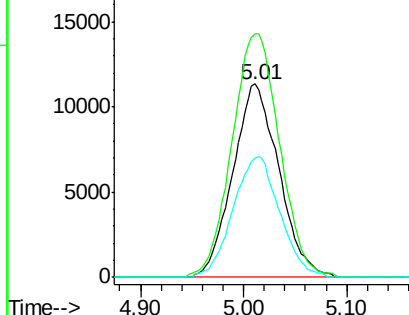
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.8	120.4	180.6
98	61.6	50.6	75.8

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



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

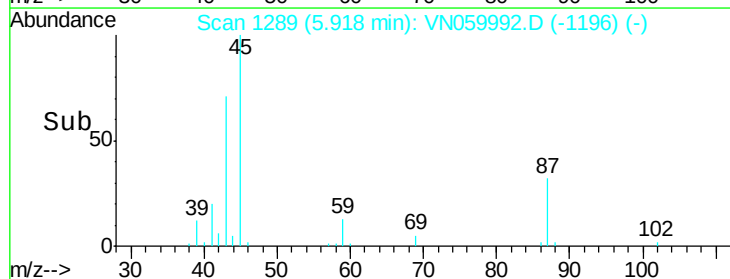
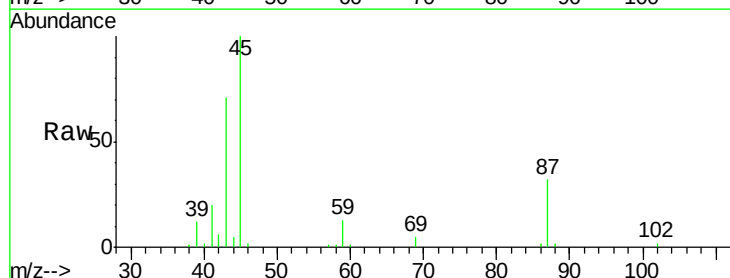
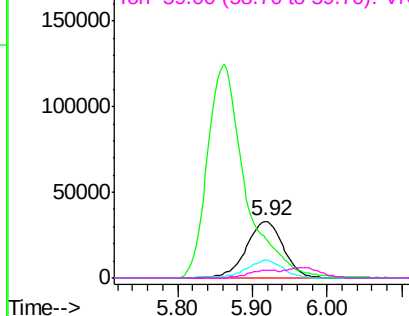


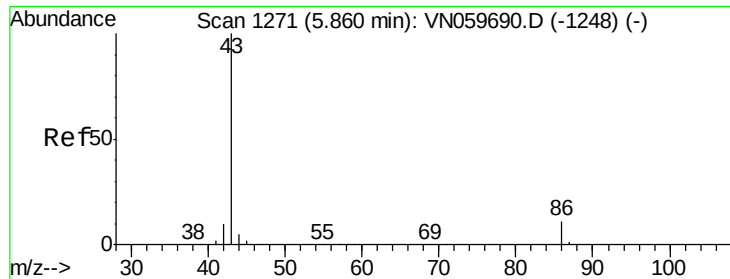
#22

Diisopropyl ether
Concen: 21.325 ug/l
RT: 5.92 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
45	100		
43	68.7	50.8	76.2
87	31.9	21.0	31.6#
59	13.4	9.1	13.7

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





#23

Vinyl Acetate

Concen: 105.900 ug/l

RT: 5.86 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD01

Tot Ion: 43 Resp: 438980

Ion Ratio Lower Upper

43 100

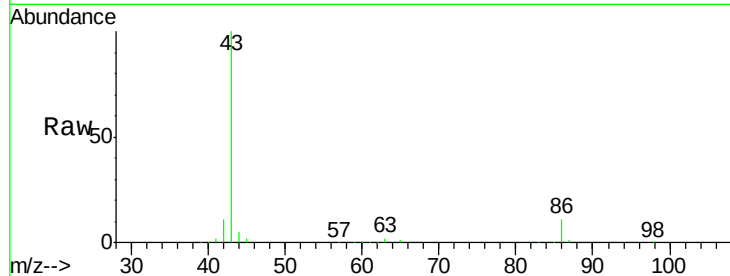
86 10.9 7.6 11.4

Manual Integrations

APPROVED

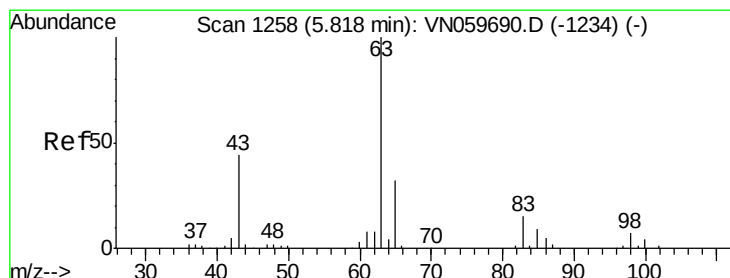
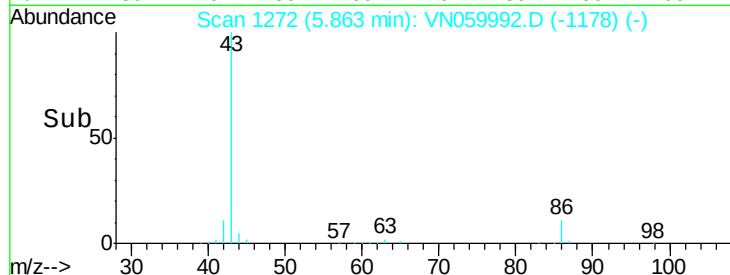
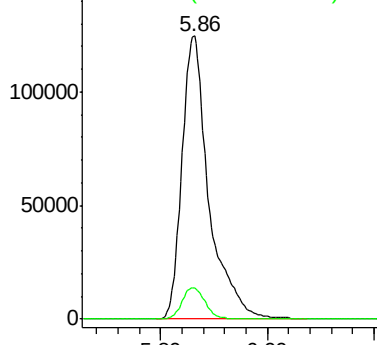
MMDadoda

2/5/2020 12:21:16 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.084 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

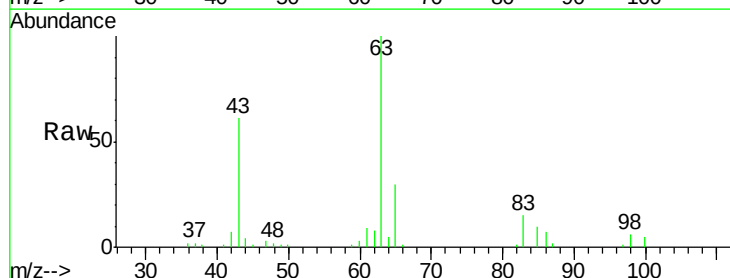
Tgt Ion: 63 Resp: 65704

Ion Ratio Lower Upper

63 100

98 6.3 2.9 8.7

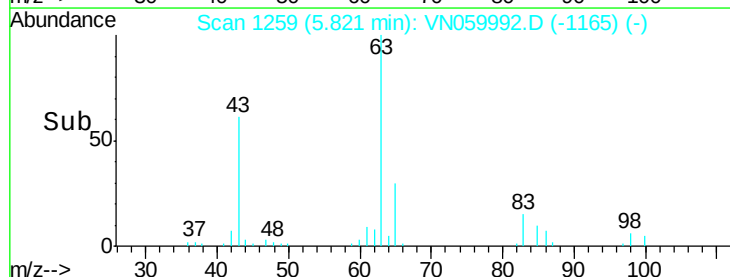
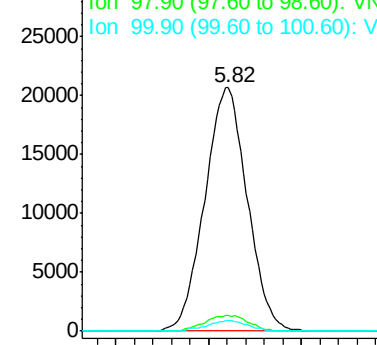
100 4.5 2.0 6.0

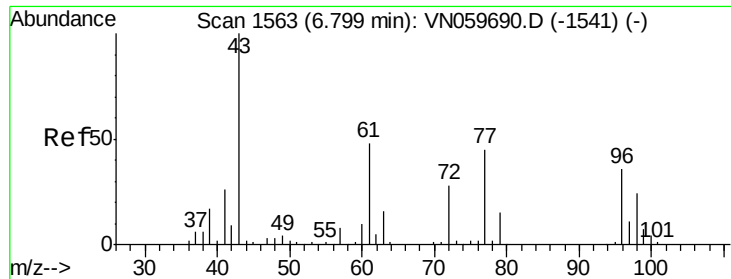


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





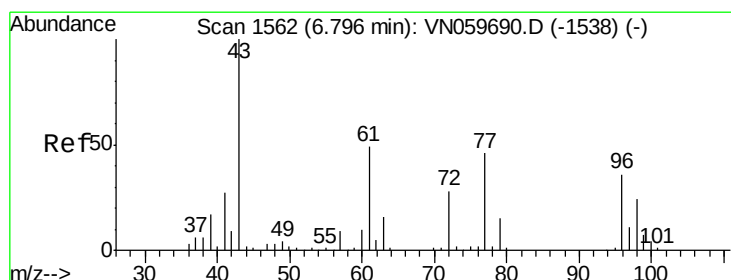
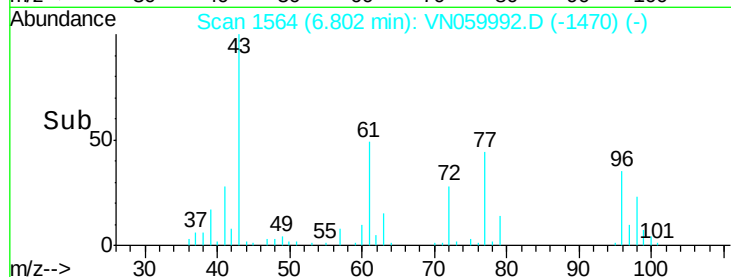
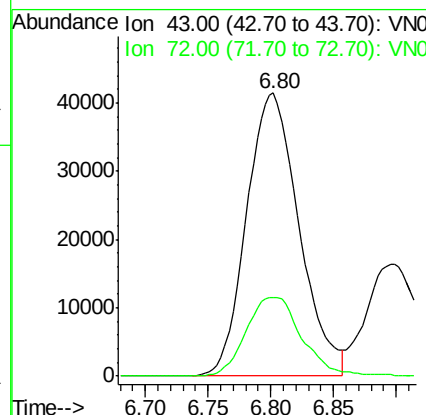
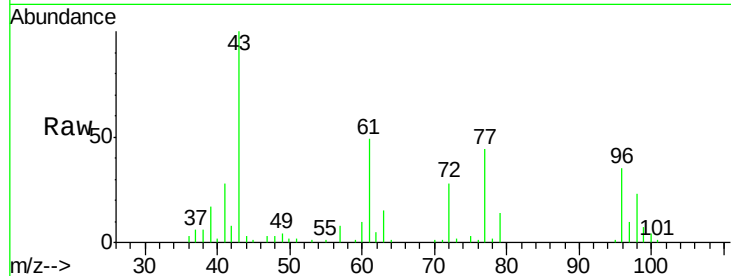
#25
2-Butanone
Concen: 100.023 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion: 43 Resp: 120510
Ion Ratio Lower Upper
43 100
72 27.6 19.9 29.9

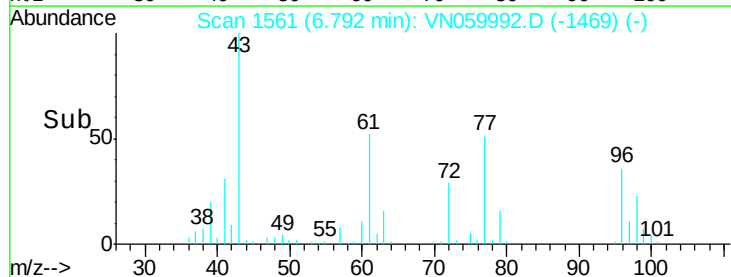
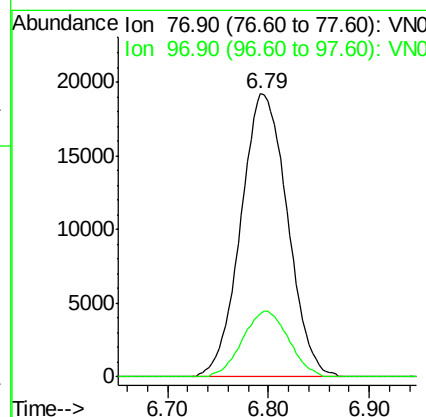
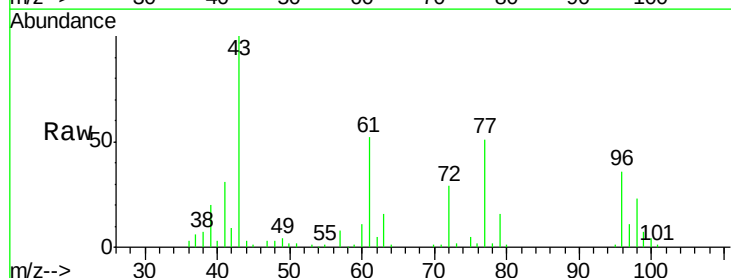
Manual Integrations
APPROVED

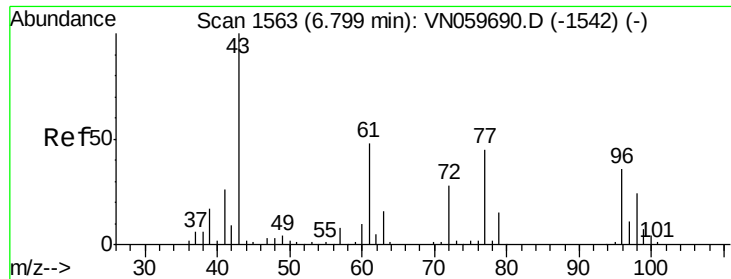
MMDadoda
2/5/2020 12:21:16 PM



#26
2,2-Dichloropropane
Concen: 19.609 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. -0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion: 77 Resp: 61670
Ion Ratio Lower Upper
77 100
97 22.9 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 20.087 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

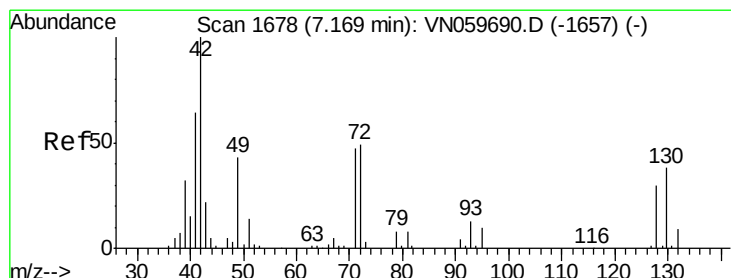
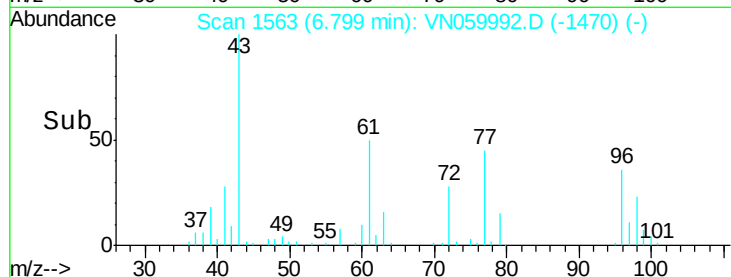
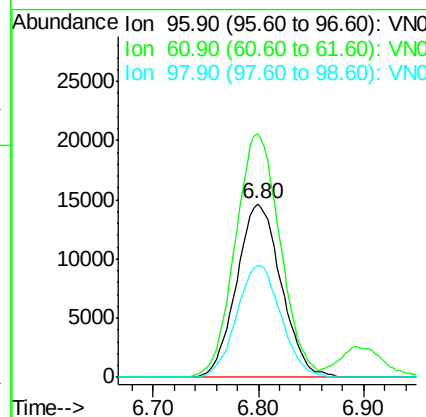
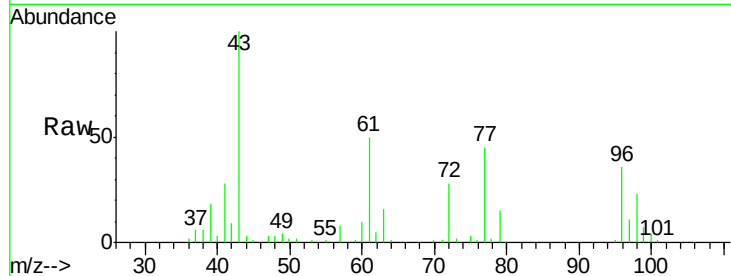
ClientSampleId :

VN0204WBSD01

Tot Ion:	96	Resp:	43045
Ion	Ratio	Lower	Upper
96	100		
61	141.1	0.0	317.6
98	64.0	0.0	127.0

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#28

Bromochloromethane

Concen: 20.059 ug/l

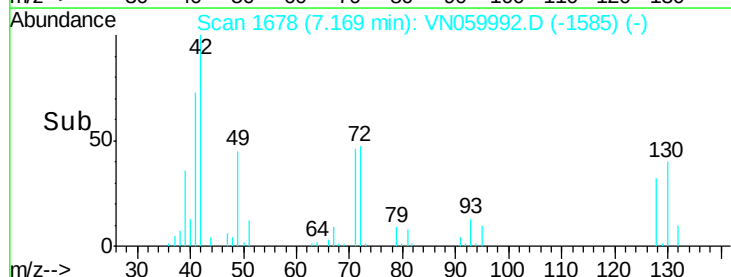
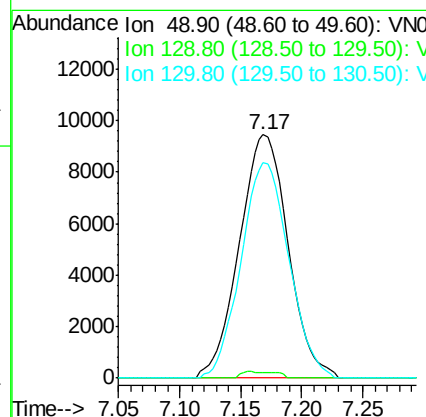
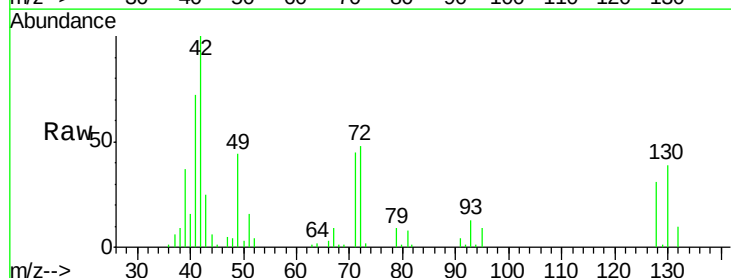
RT: 7.17 min Scan# 1678

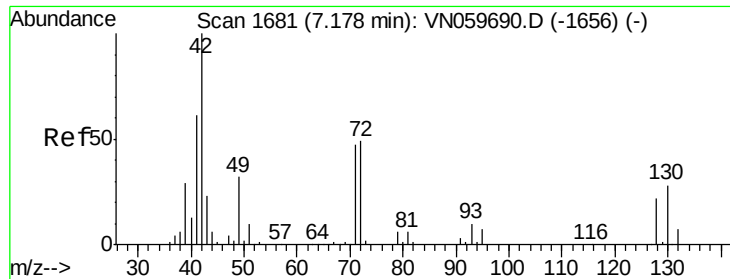
Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion:	49	Resp:	26227
Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.4
130	86.8	54.7	82.1#





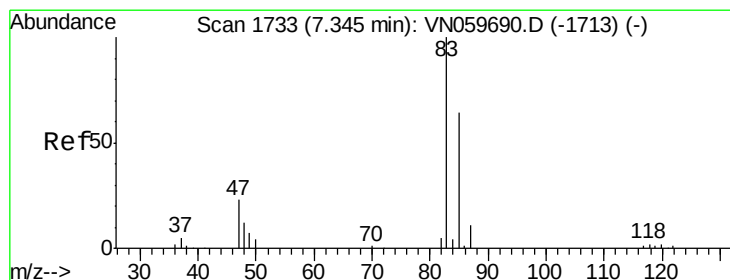
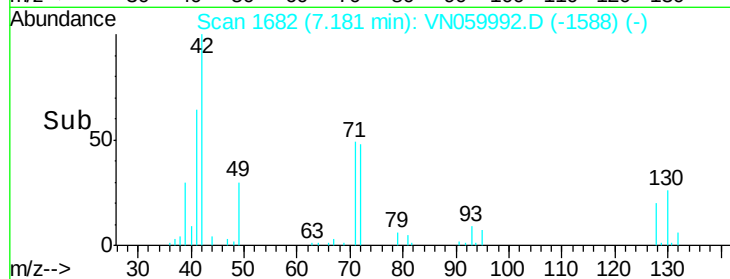
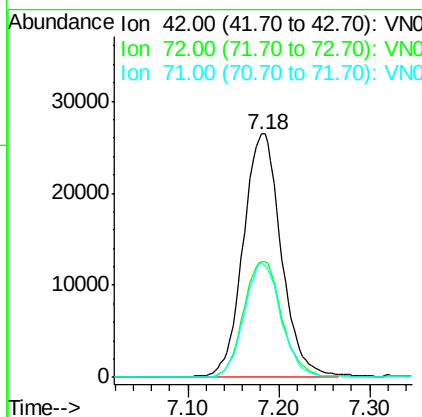
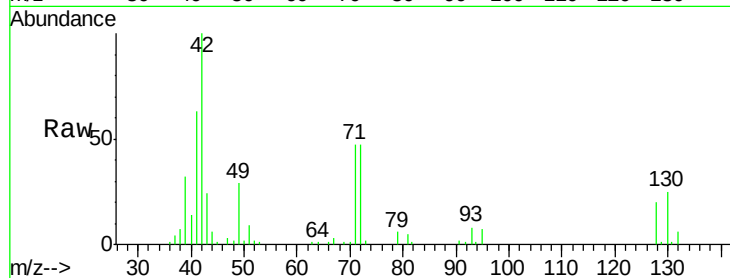
#29
Tetrahydrofuran
Concen: 103.249 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.9	33.1	49.7
71	45.4	31.4	47.0

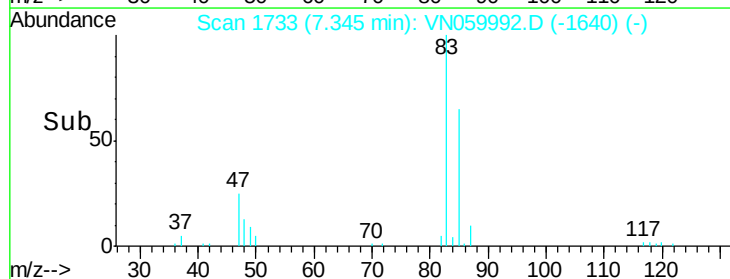
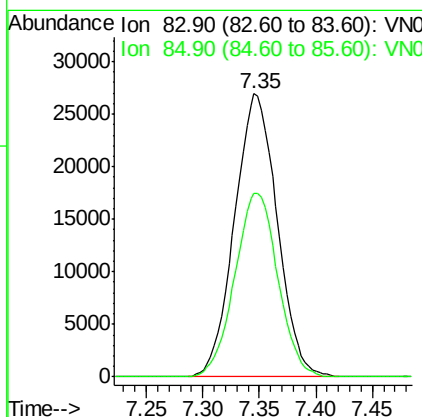
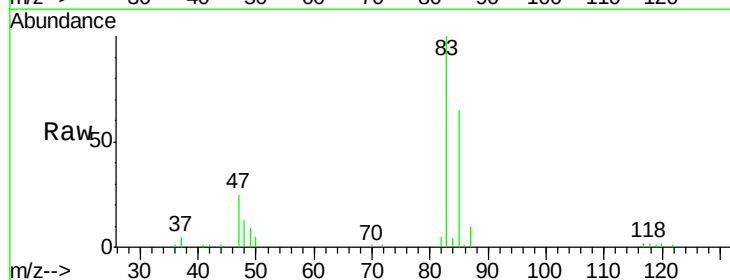
Manual Integrations
APPROVED

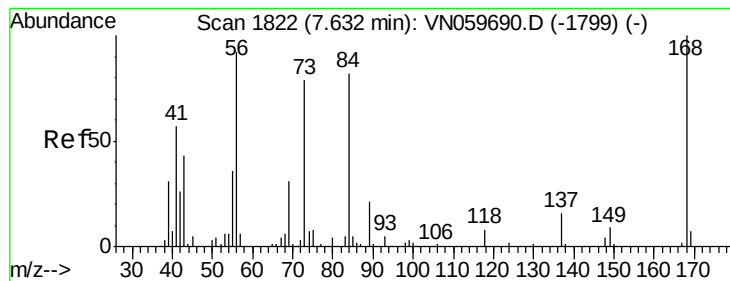
MMDadoda
2/5/2020 12:21:16 PM



#30
Chloroform
Concen: 20.837 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.4	78.6





#31

Cyclohexane

Concen: 17.803 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

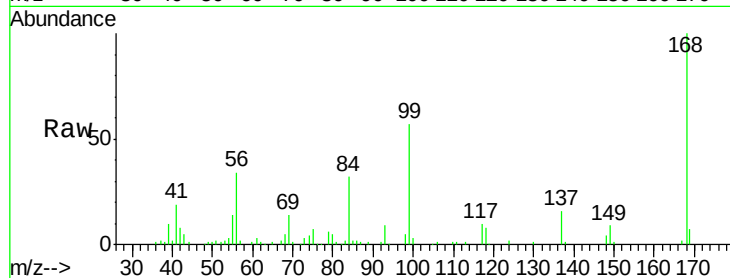
ClientSampled :

VN0204WBSD01

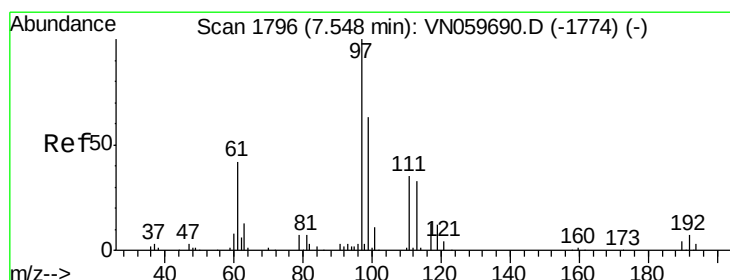
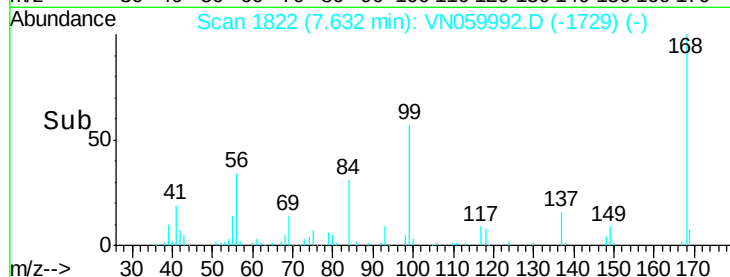
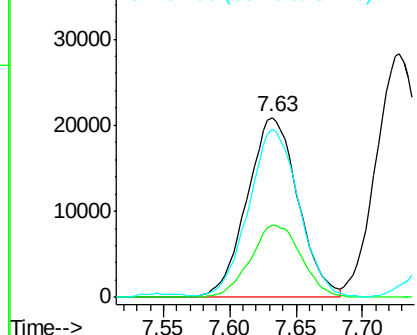
Tot Ion:	56	Resp:	56041
Ion Ratio	Lower	Upper	
56	100		
69	40.4	26.5	39.7#
84	92.5	65.3	97.9

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 20.334 ug/l

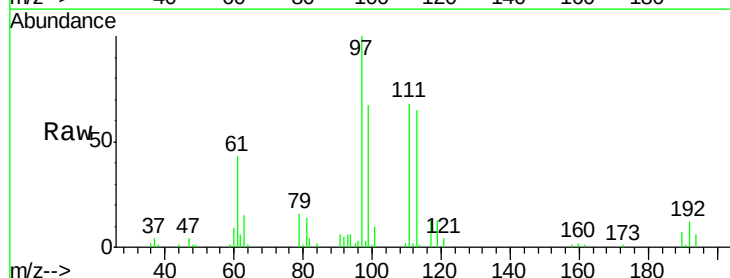
RT: 7.54 min Scan# 1795

Delta R.T. -0.00 min

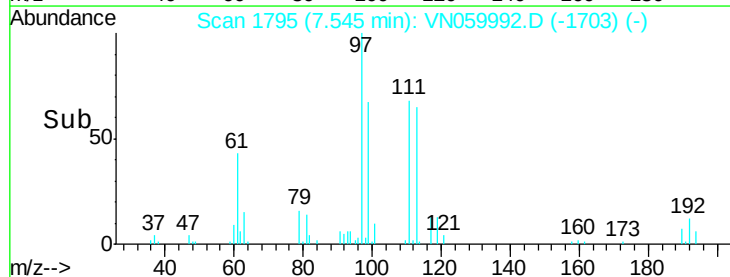
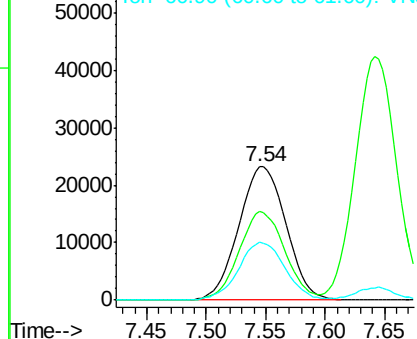
Lab File: VN059992.D

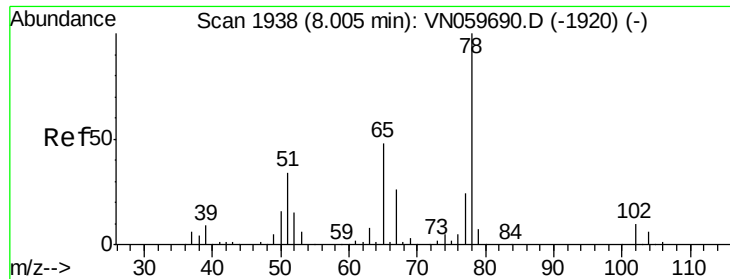
Acq: 4 Feb 2020 14:25

Tgt Ion:	97	Resp:	63728
Ion Ratio	Lower	Upper	
97	100		
99	64.3	51.0	76.4
61	42.9	38.5	57.7



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





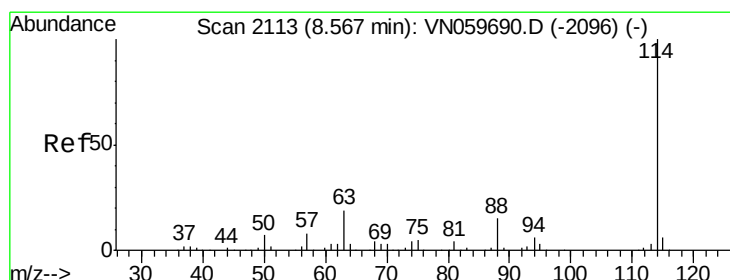
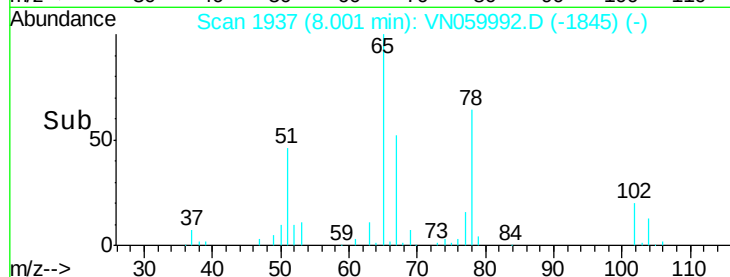
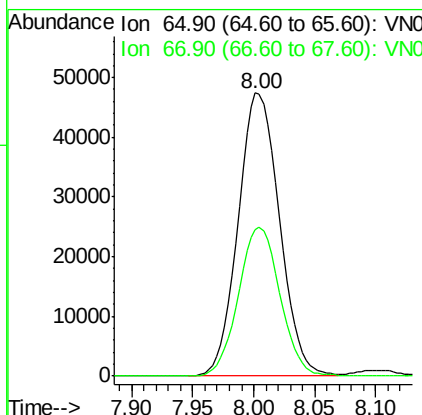
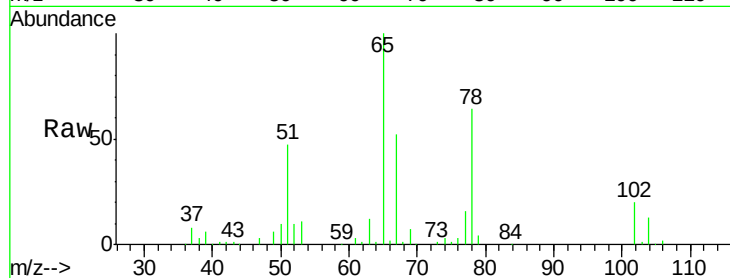
#33
 1,2-Dichloroethane-d4
 Concen: 52.406 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0204WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.7	0.0	103.0	

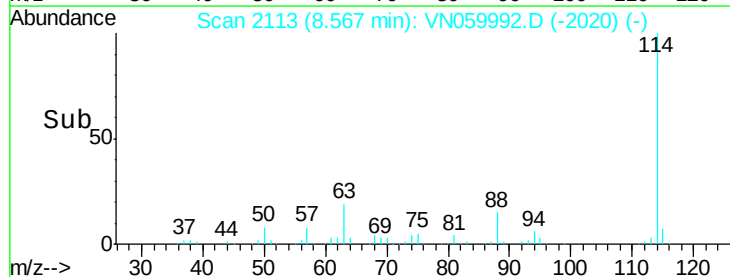
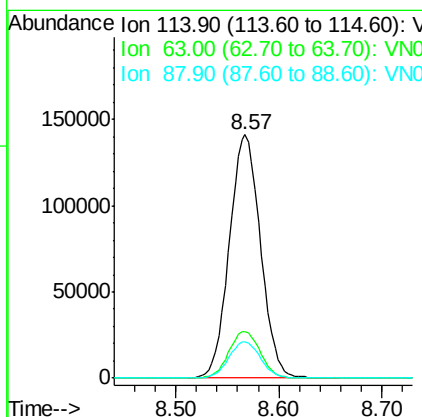
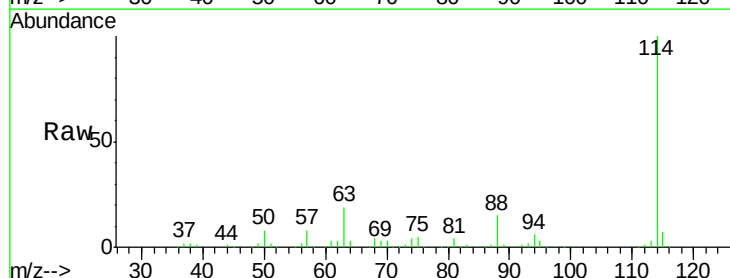
Manual Integrations
 APPROVED

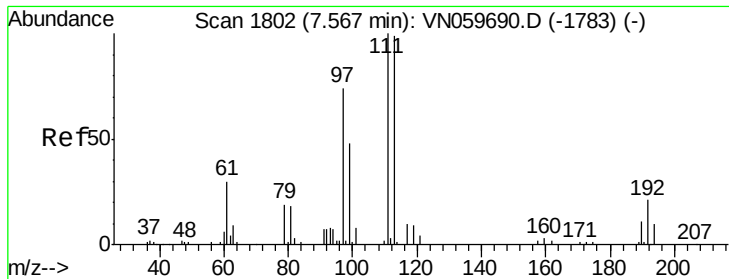
MMDadoda
 2/5/2020 12:21:16 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.3	0.0	43.6	
88	14.8	0.0	31.4	





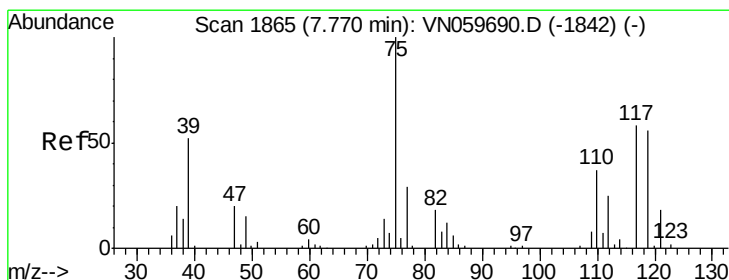
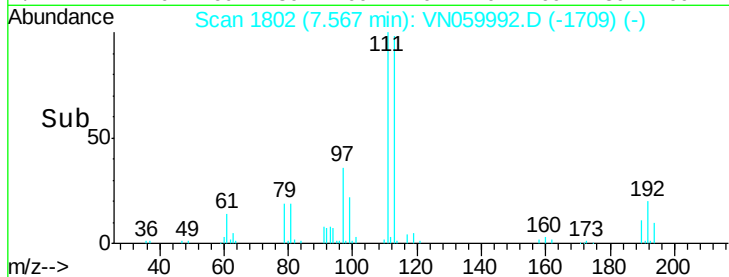
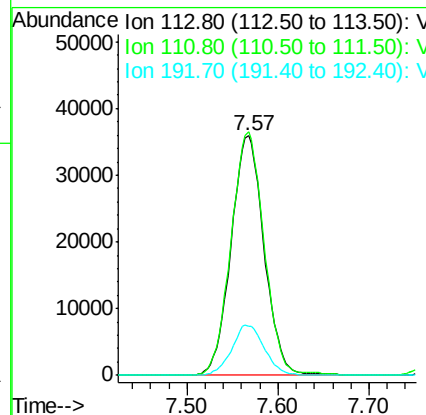
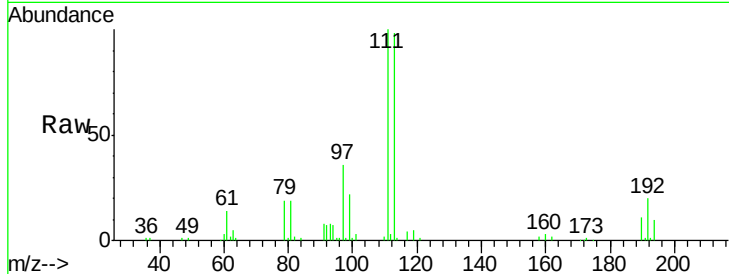
#35
 Dibromofluoromethane
 Concen: 51.064 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	90562		
111	101.8	83.5	125.3	
192	20.6	15.4	23.2	

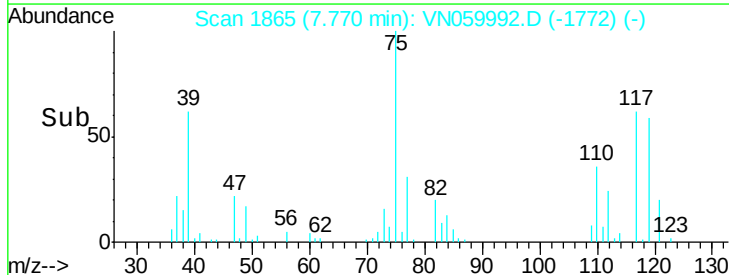
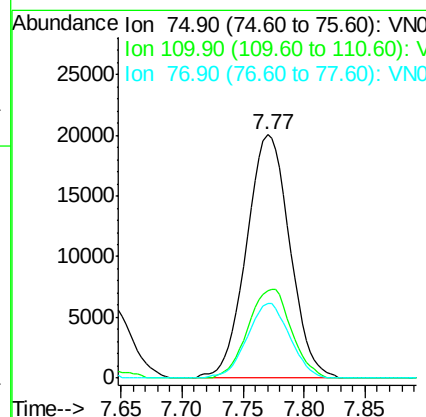
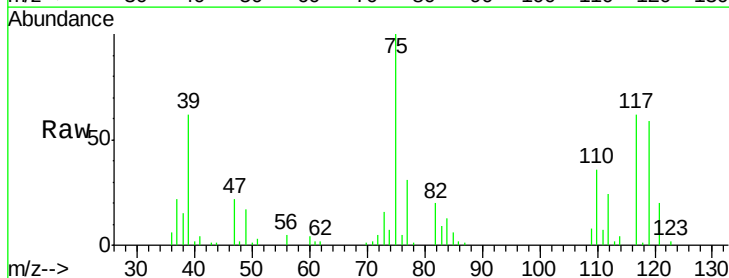
Manual Integrations
 APPROVED

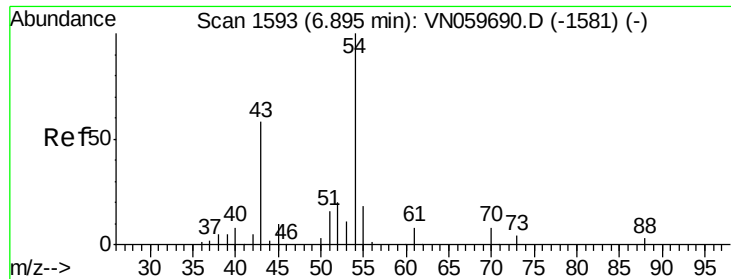
MMDadoda
 2/5/2020 12:21:16 PM



#36
 1,1-Dichloropropene
 Concen: 19.025 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	49270		
110	36.4	16.6	49.7	
77	30.0	25.1	37.7	





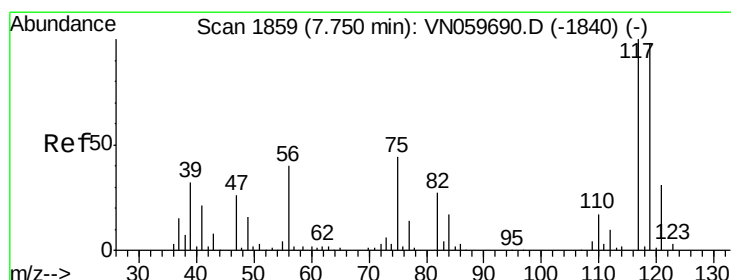
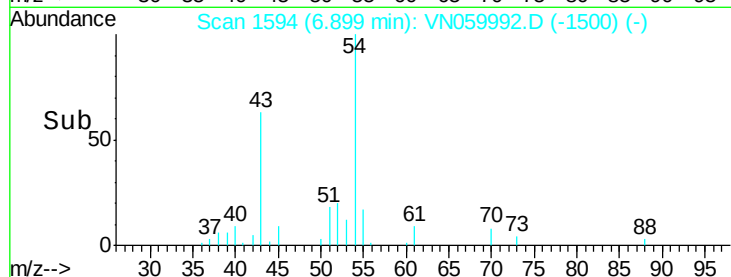
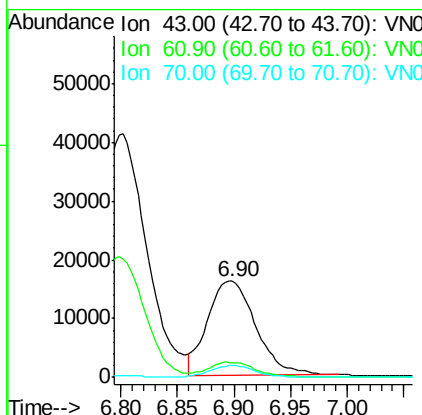
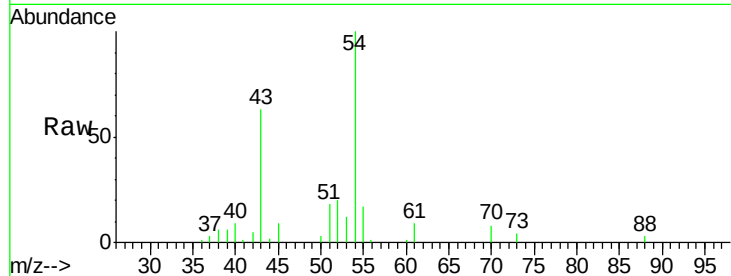
#37
Ethyl Acetate
Concen: 19.746 ug/l
RT: 6.90 min Scan# 1594
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0204WBSD01

Tot Ion	43	61	70
Ion Ratio	100	15.9	11.4
Lower		10.9	7.7
Upper		16.3	11.5

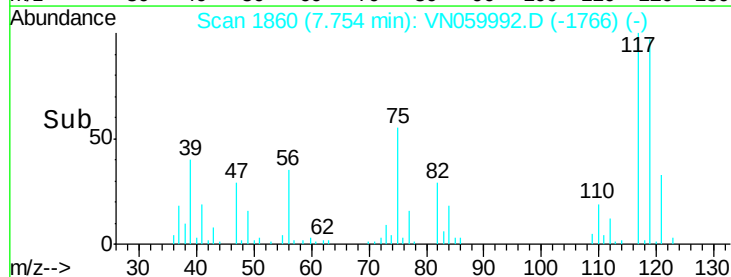
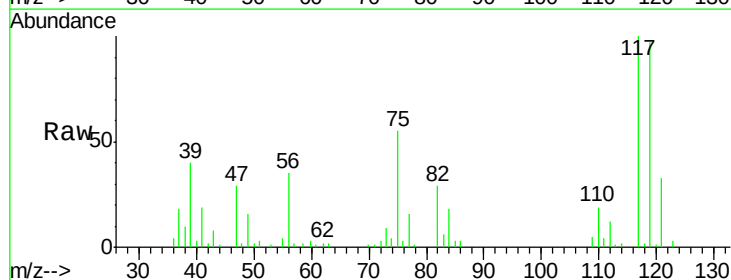
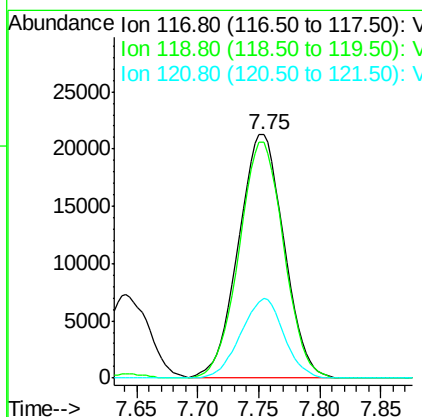
Manual Integrations
APPROVED

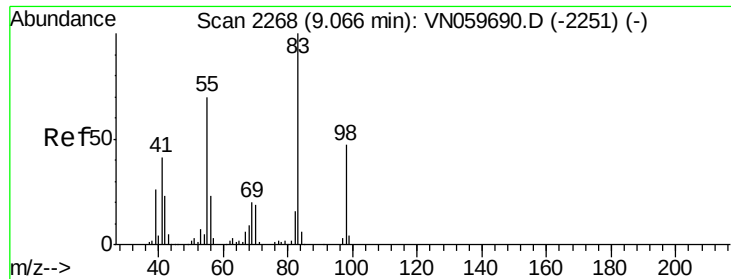
MMDadoda
2/5/2020 12:21:16 PM



#38
Carbon Tetrachloride
Concen: 19.511 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	117	119	121
Ion Ratio	100	96.8	32.8
Lower		76.5	25.1
Upper		114.7	37.7





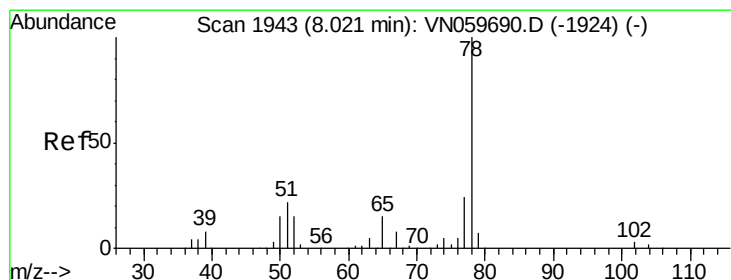
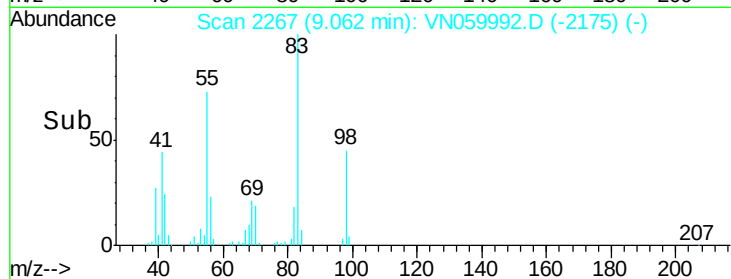
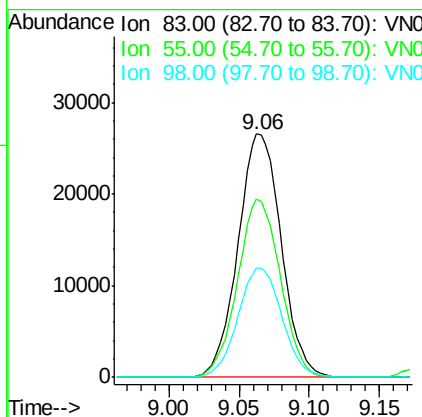
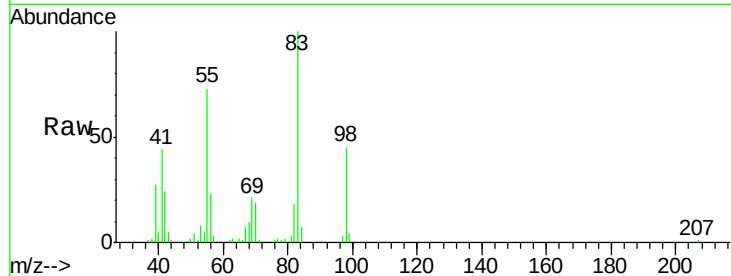
#39
Methylvlcyclohexane
Concen: 17.861 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.4	64.2	96.2
98	44.7	35.9	53.9

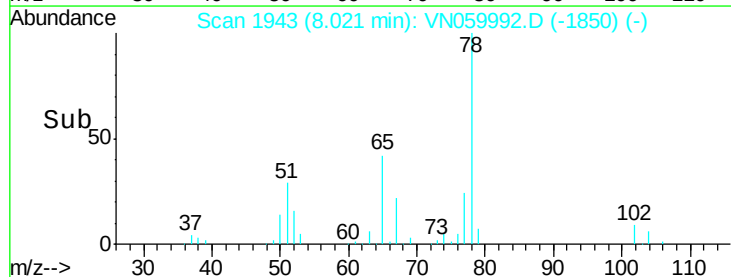
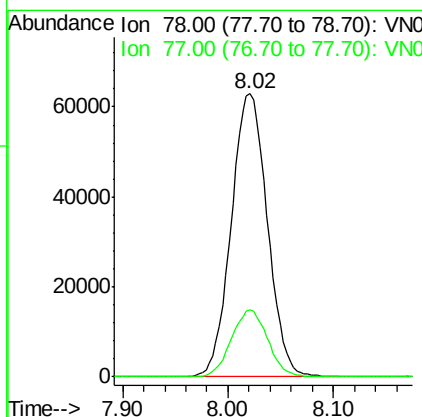
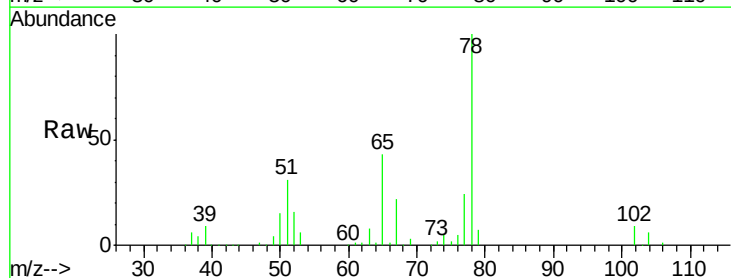
Manual Integrations
APPROVED

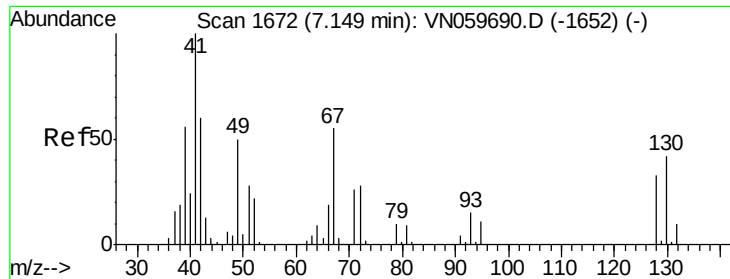
MMDadoda
2/5/2020 12:21:16 PM



#40
Benzene
Concen: 19.355 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3





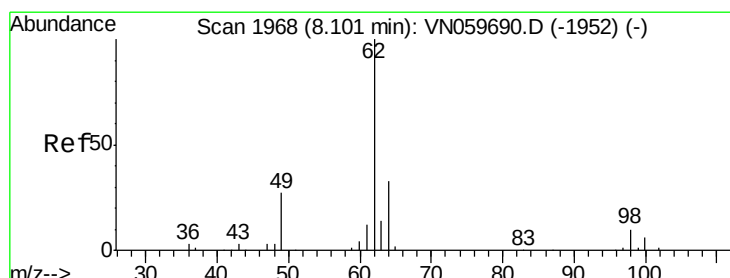
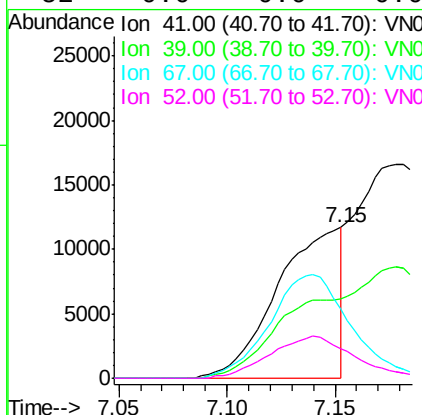
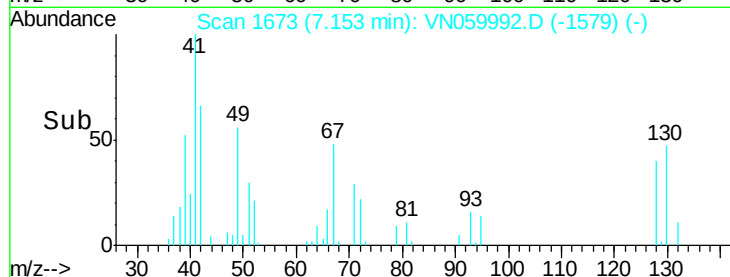
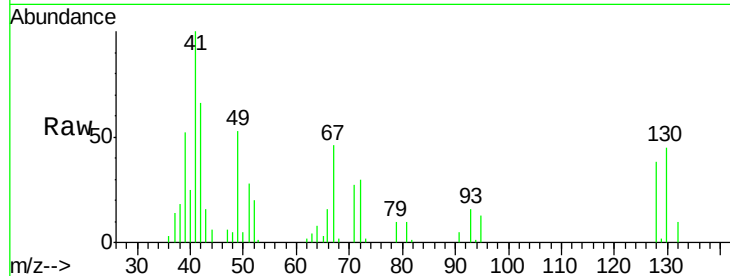
#41
Methacrylonitrile
Concen: 20.061 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	41	Resp	24001
Ion	Ratio	Lower	Upper
41	100		
39	160.9	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

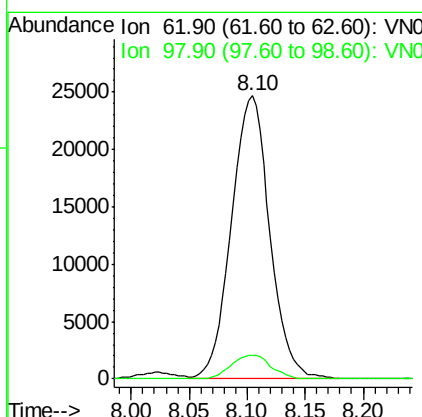
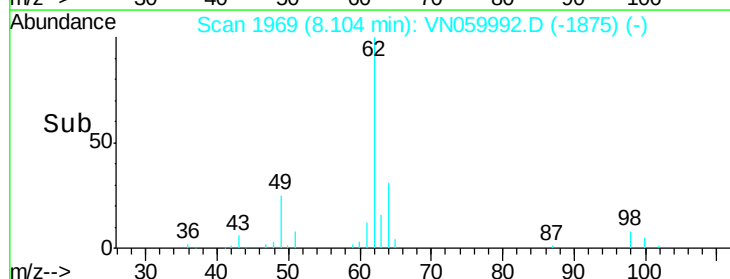
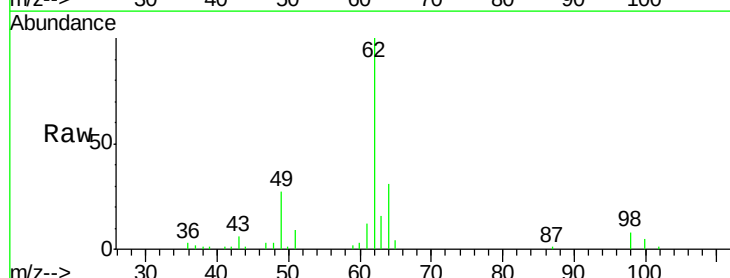
Manual Integrations
APPROVED

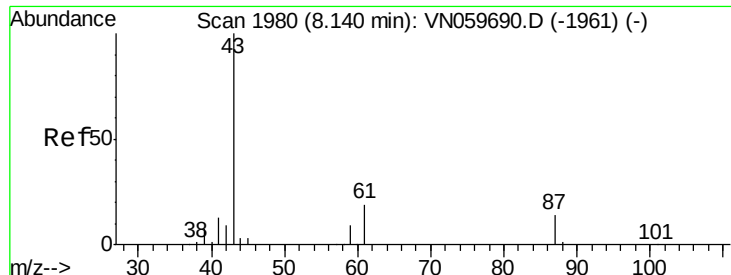
MMDadoda
2/5/2020 12:21:16 PM



#42
1,2-Dichloroethane
Concen: 21.630 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	62	Resp	56645
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	15.8





#43

Isopropyl Acetate

Concen: 20.709 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

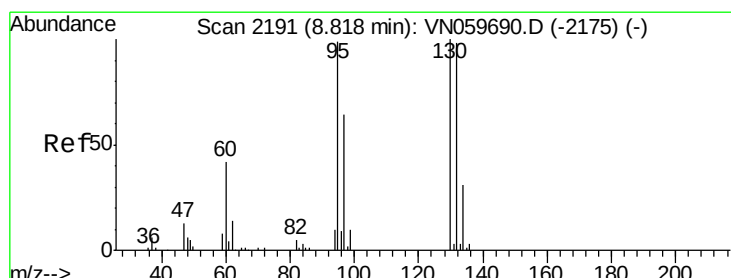
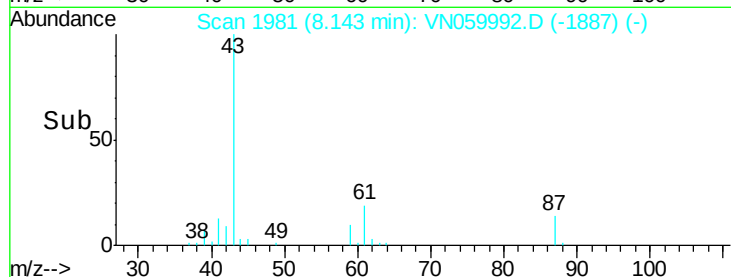
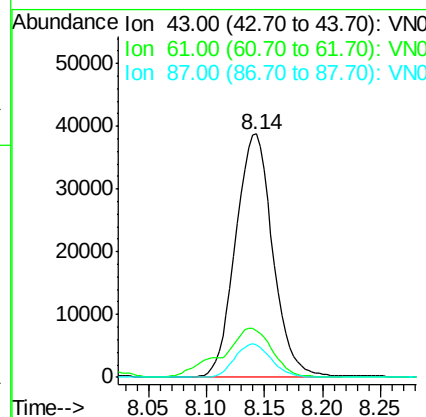
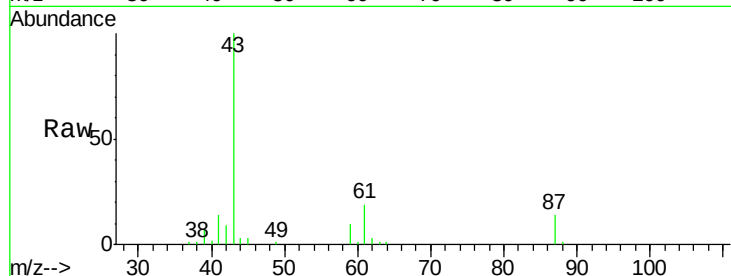
ClientSampled :

VN0204WBSD01

Tot Ion:	43	Resp:	86524
Ion	Ratio	Lower	Upper
43	100		
61	27.2	20.2	30.2
87	13.4	9.5	14.3

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#44

Trichloroethene

Concen: 20.431 ug/l

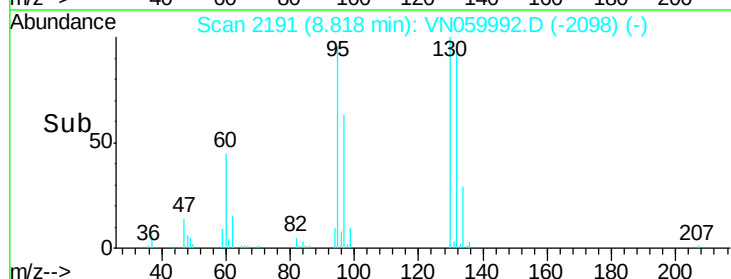
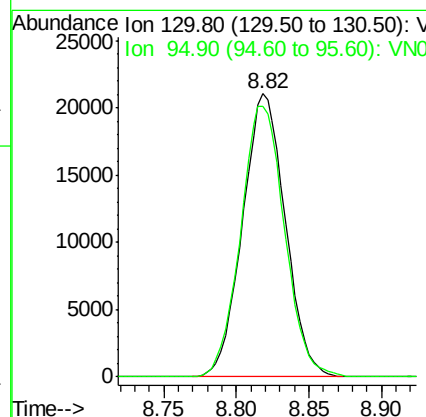
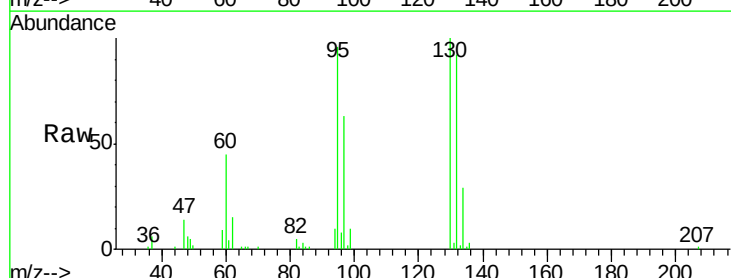
RT: 8.82 min Scan# 2191

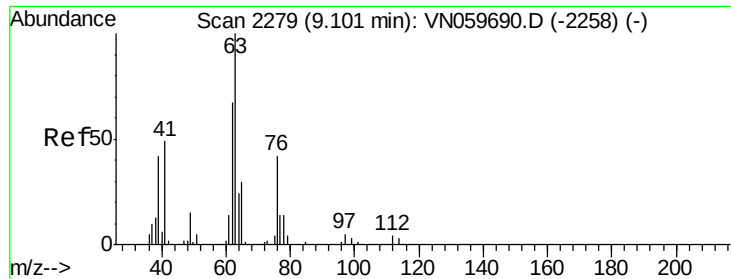
Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion:	130	Resp:	43078
Ion	Ratio	Lower	Upper
130	100		
95	95.6	0.0	207.0





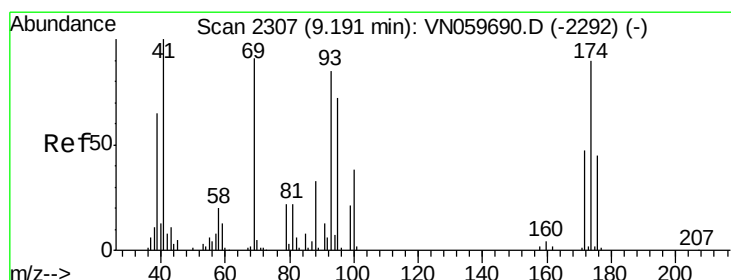
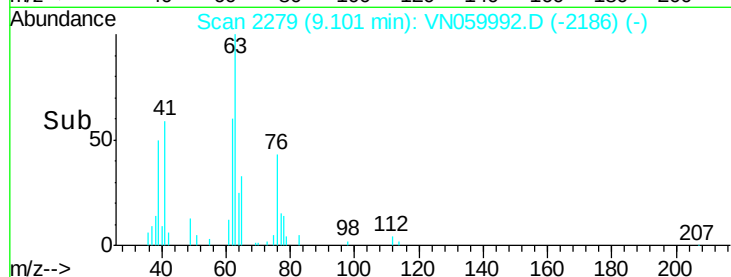
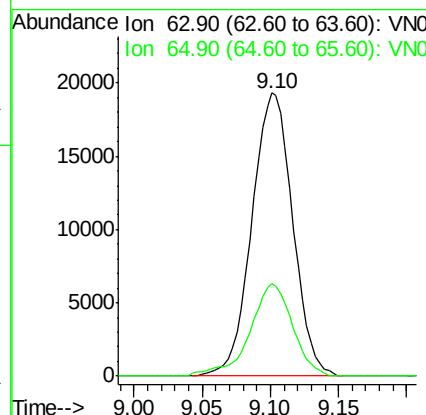
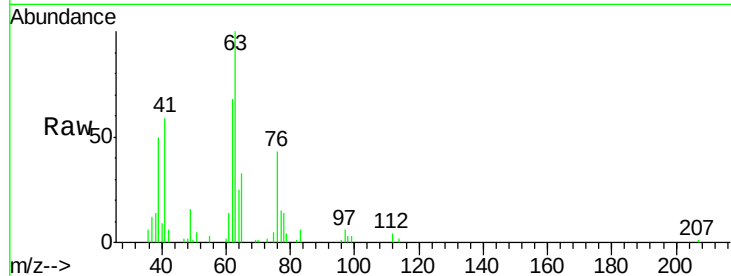
#45
 1,2-Dichloropropane
 Concen: 20.950 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampled :
 VN0204WBSD01

Tot Ion: 63 Resp: 40040
 Ion Ratio Lower Upper
 63 100
 65 32.6 24.9 37.3

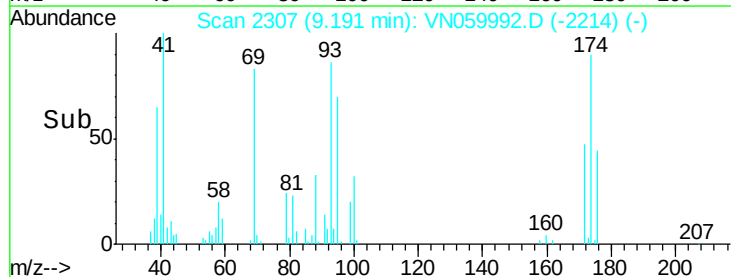
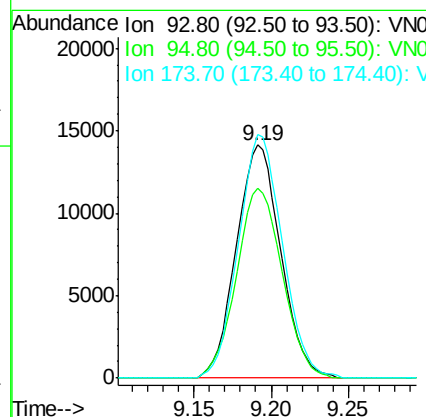
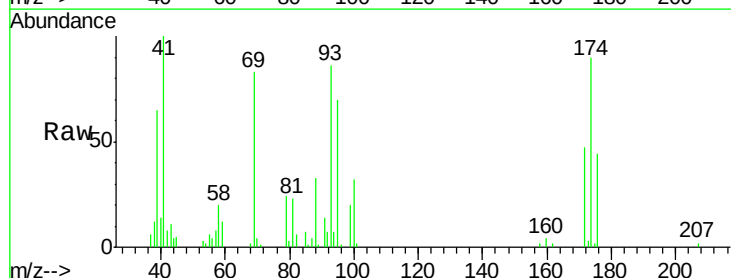
Manual Integrations
 APPROVED

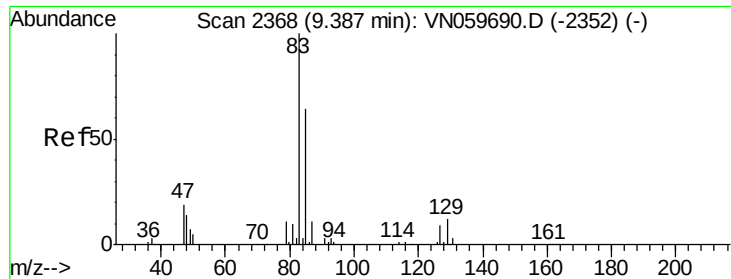
MMDadoda
 2/5/2020 12:21:16 PM



#46
 Dibromomethane
 Concen: 20.933 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion: 93 Resp: 28222
 Ion Ratio Lower Upper
 93 100
 95 83.6 67.0 100.6
 174 103.8 73.4 110.2





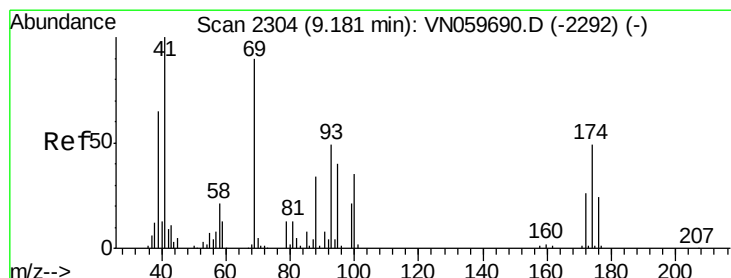
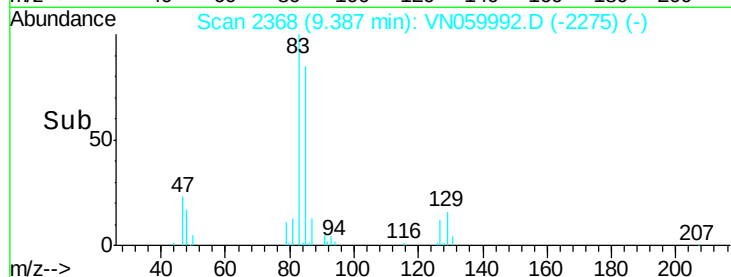
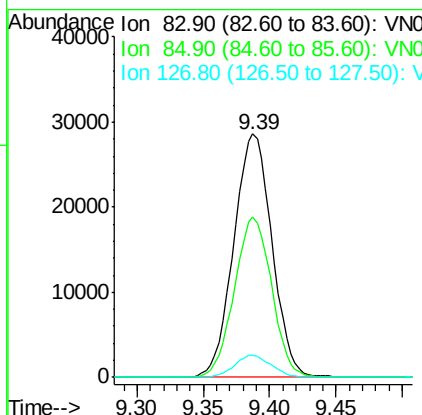
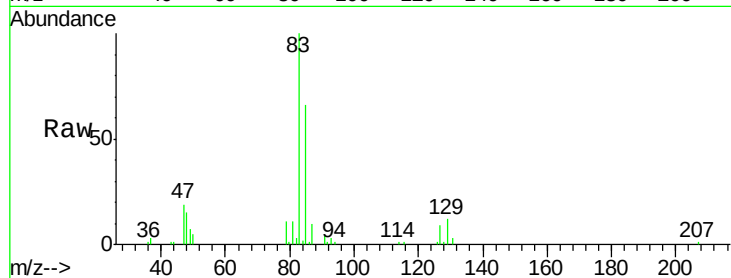
#47
Bromodichloromethane
Concen: 21.109 ug/l
RT: 9.39 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	83	Resp	57350
Ion Ratio	100		
85	65.8	51.1	76.7
127	9.1	6.6	9.8

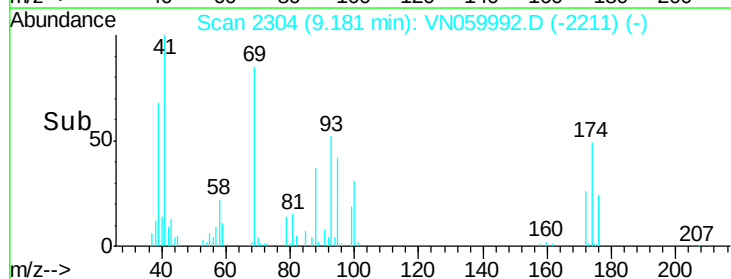
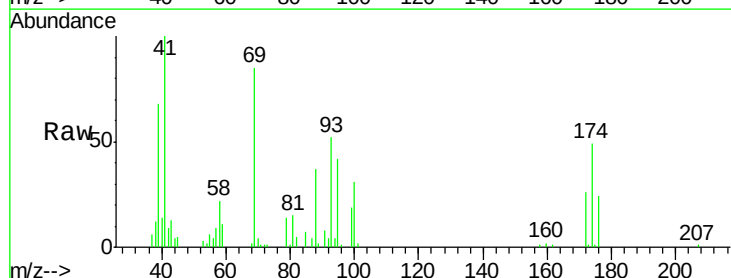
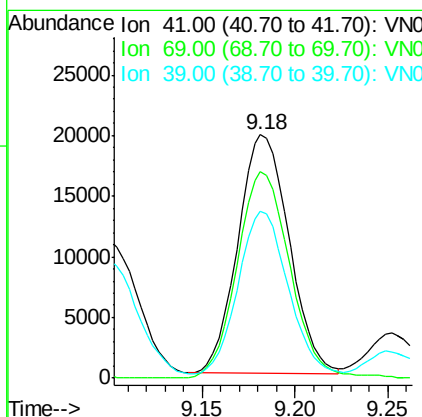
Manual Integrations
APPROVED

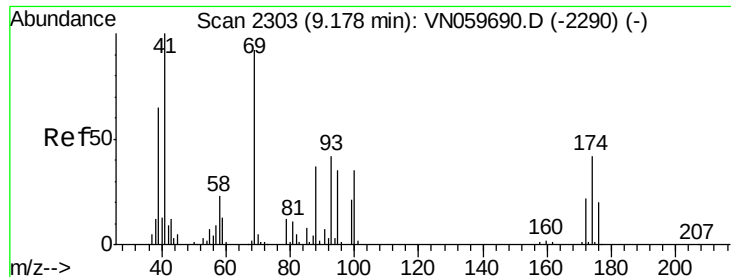
MMDadoda
2/5/2020 12:21:16 PM



#48
Methyl methacrylate
Concen: 20.241 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	41	Resp	37826
Ion Ratio	100		
69	89.1	64.4	96.6
39	70.1	51.3	76.9





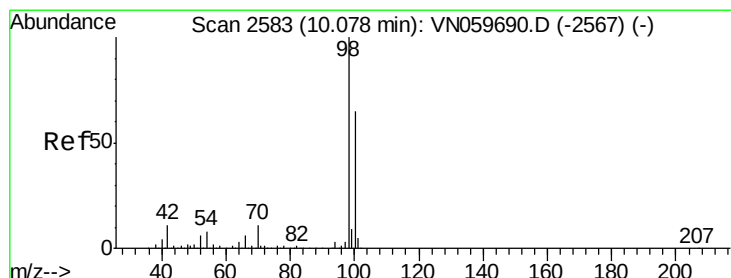
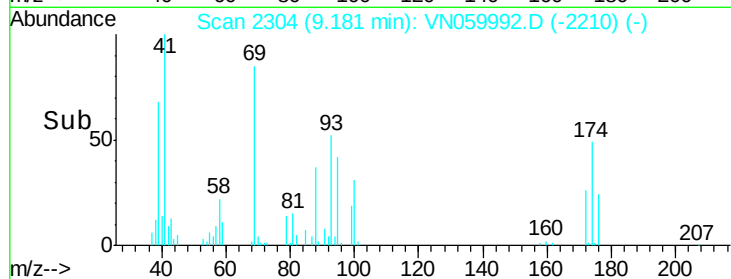
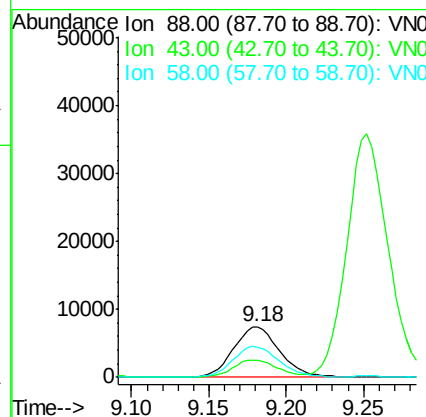
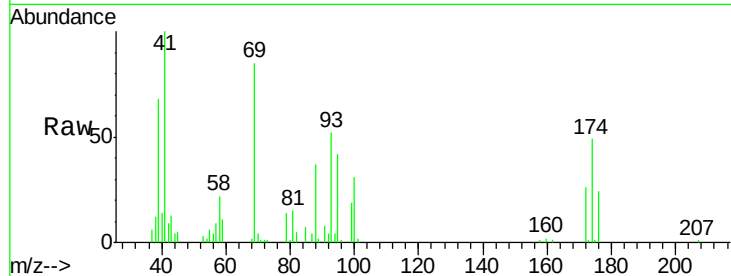
#49
1,4-Dioxane
Concen: 451.987 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	88	Resp	15463
Ion Ratio	Lower	Upper	
88	100		
43	33.1	29.7	44.5
58	61.2	56.6	85.0

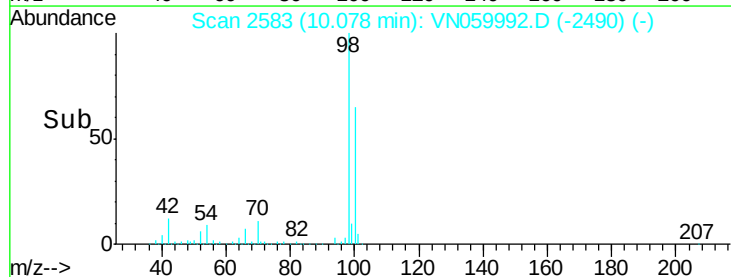
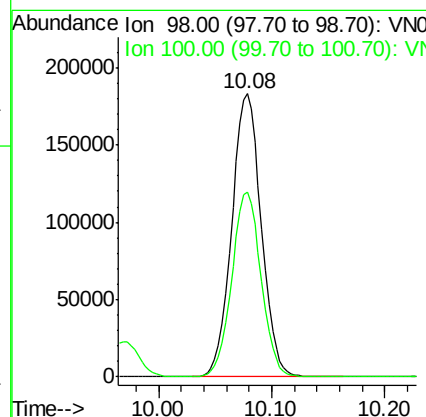
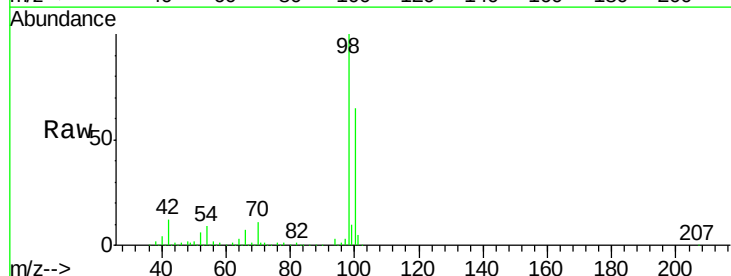
Manual Integrations
APPROVED

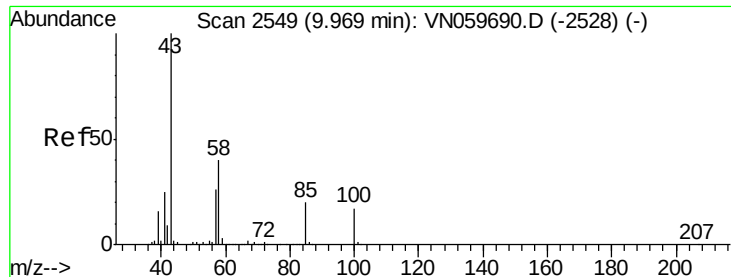
MMDadoda
2/5/2020 12:21:16 PM



#50
Toluene-d8
Concen: 48.271 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	98	Resp	331688
Ion Ratio	Lower	Upper	
98	100		
100	64.8	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 105.885 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD01

Tot Ion: 43 Resp: 255731

Ion Ratio Lower Upper

43 100

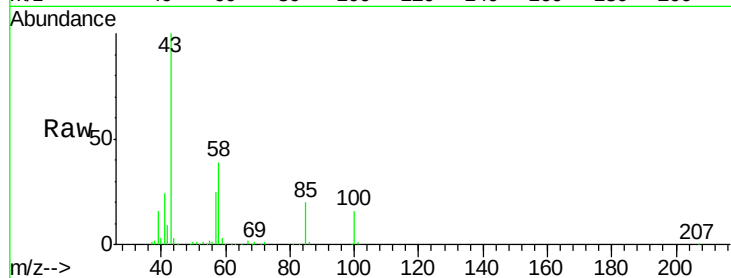
58 39.6 29.8 44.8

Manual Integrations

APPROVED

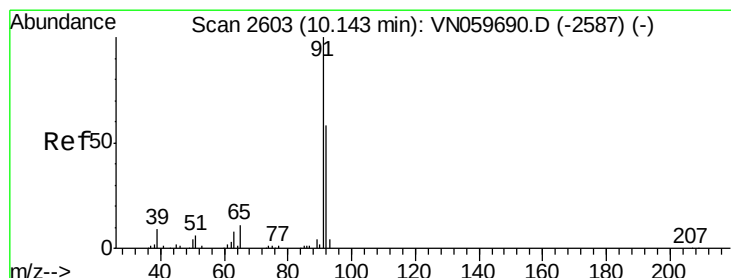
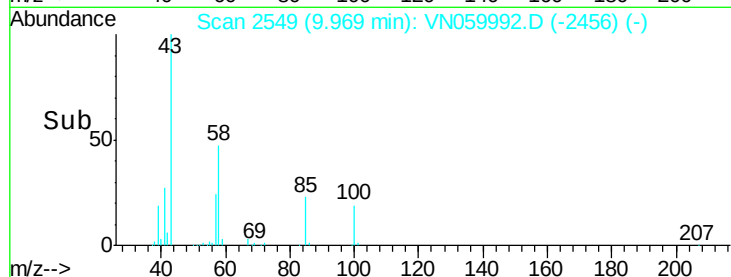
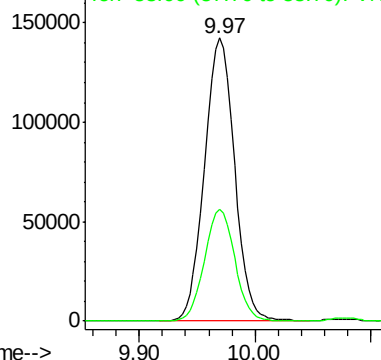
MMDadoda

2/5/2020 12:21:16 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.856 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN059992.D

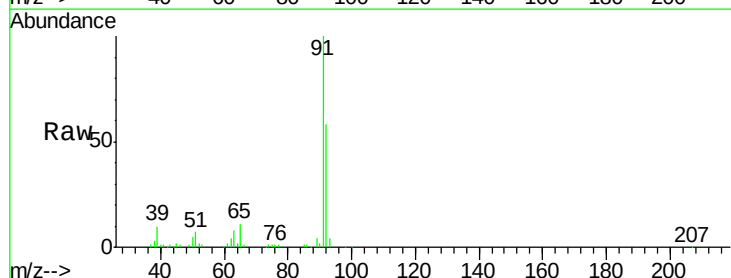
Acq: 4 Feb 2020 14:25

Tgt Ion: 92 Resp: 96873

Ion Ratio Lower Upper

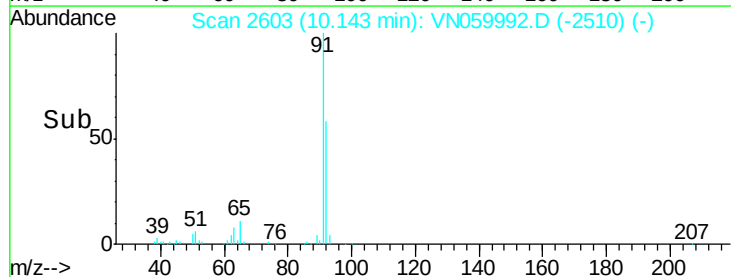
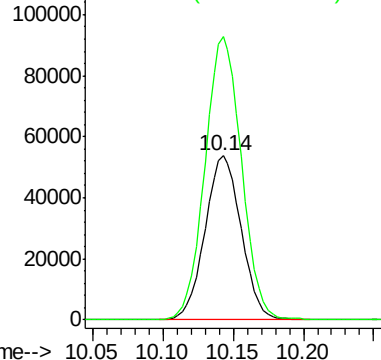
92 100

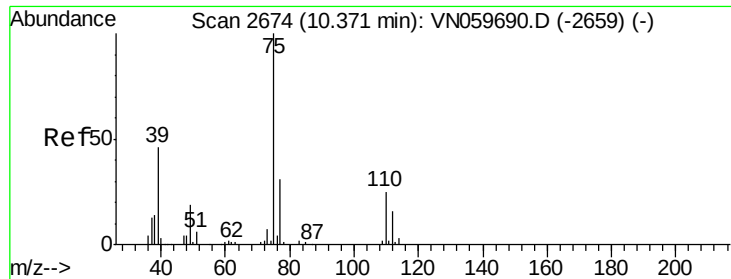
91 173.6 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 21.176 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampled :

VN0204WBSD01

Tot Ion: 75 Resp: 64240

Ion Ratio Lower Upper

75 100

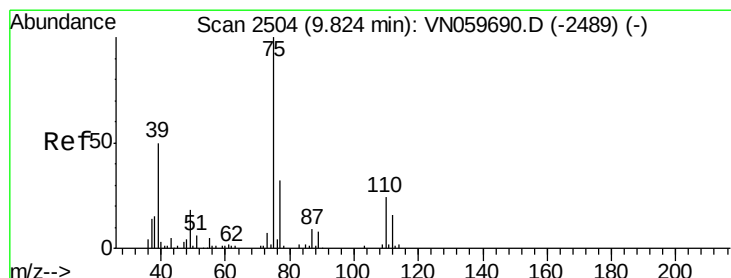
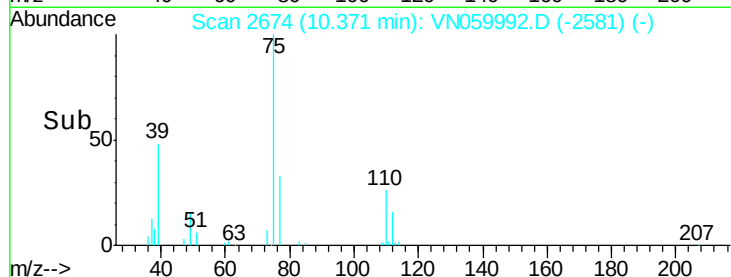
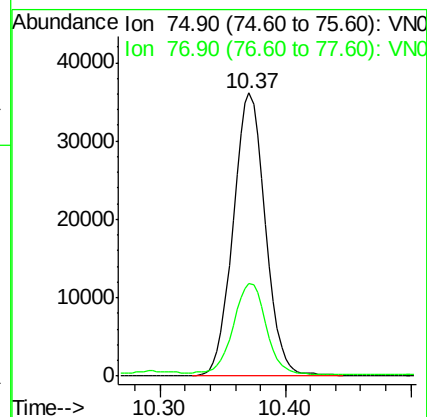
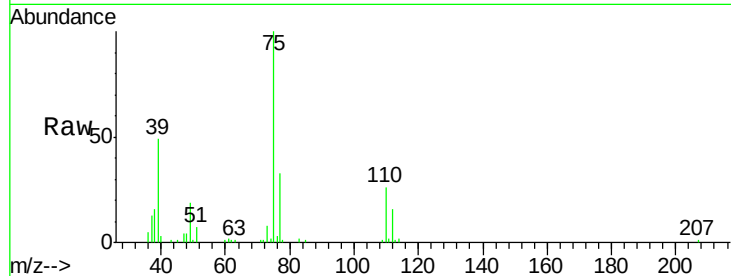
77 32.0 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

2/5/2020 12:21:16 PM



#54

cis-1,3-Dichloropropene

Concen: 20.728 ug/l

RT: 9.82 min Scan# 2504

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

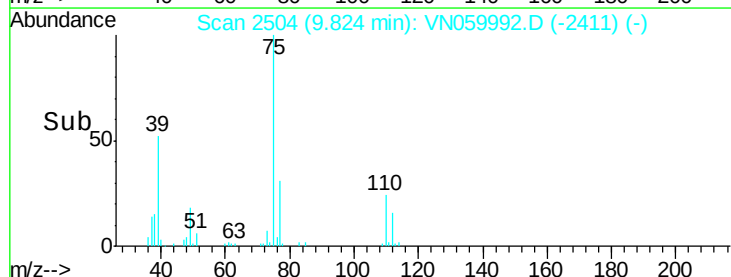
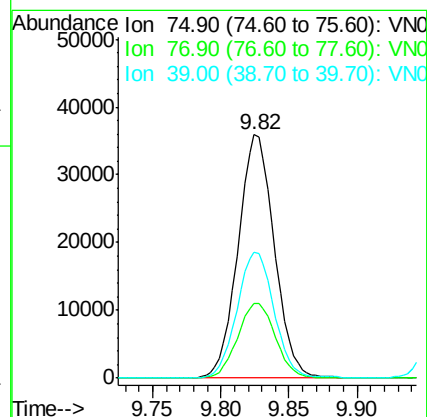
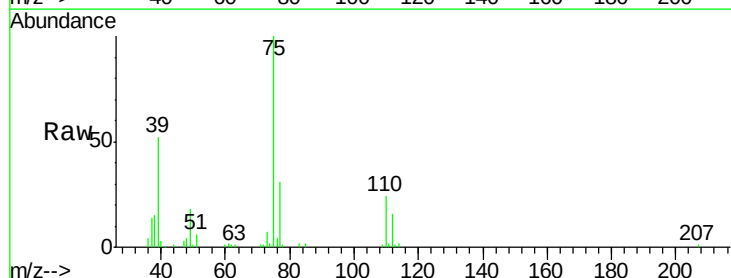
Tgt Ion: 75 Resp: 66161

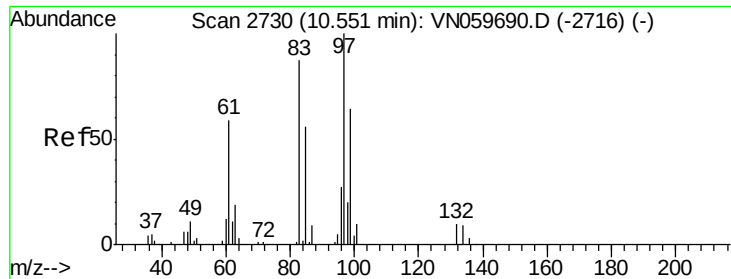
Ion Ratio Lower Upper

75 100

77 30.6 25.1 37.7

39 51.7 46.1 69.1





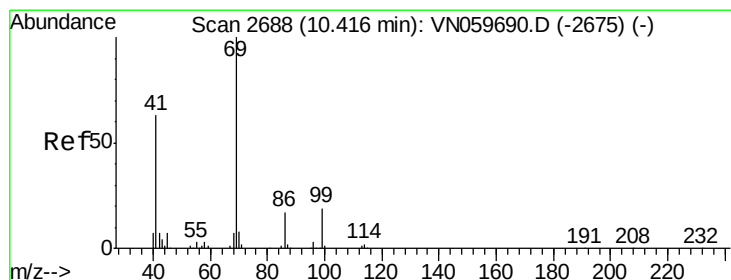
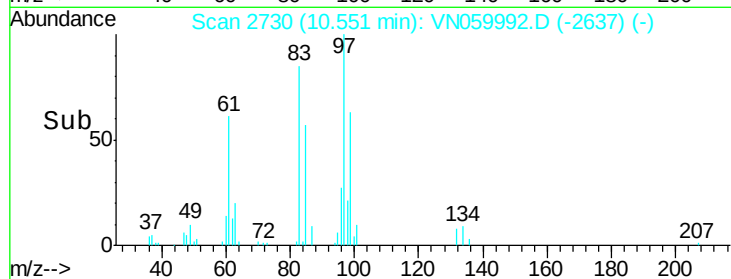
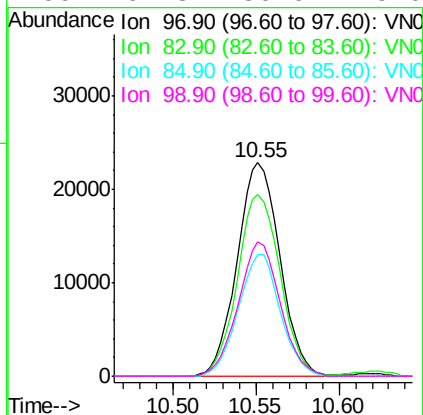
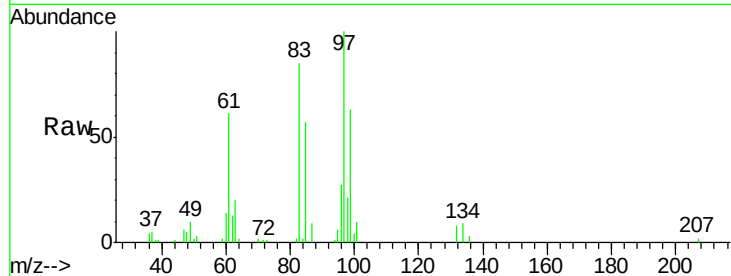
#55
 1,1,2-Trichloroethane
 Concen: 21.261 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.3	71.3	106.9
85	57.0	45.8	68.8
99	62.8	50.0	75.0

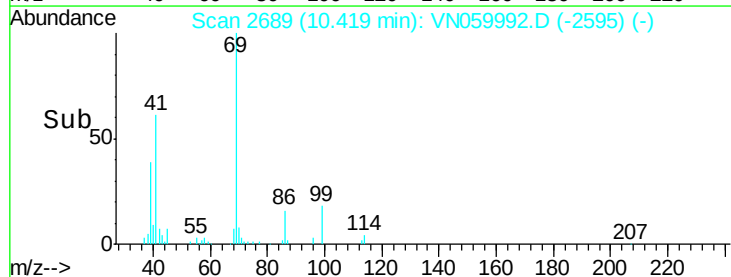
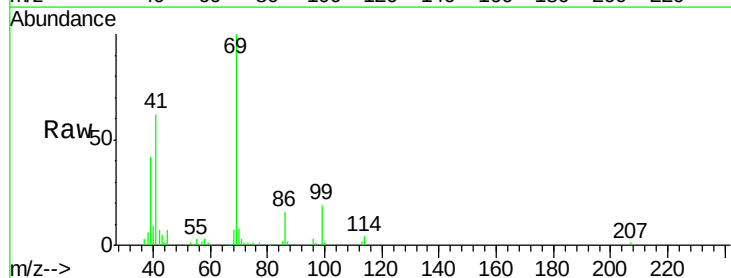
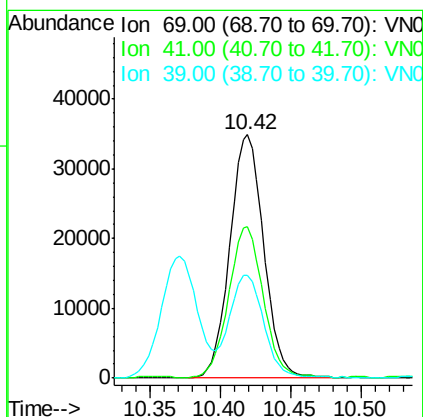
Manual Integrations
 APPROVED

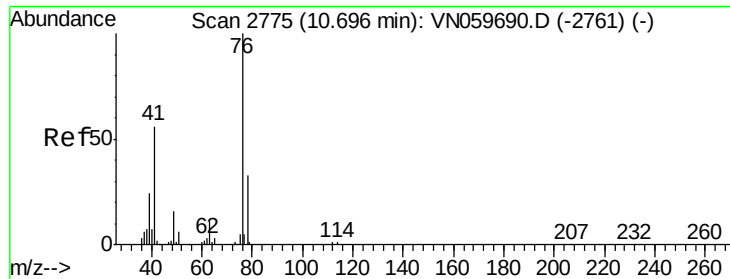
MMDadoda
 2/5/2020 12:21:16 PM



#56
 Ethyl methacrylate
 Concen: 19.901 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
69	100		
41	64.0	57.1	85.7
39	43.1	34.7	52.1





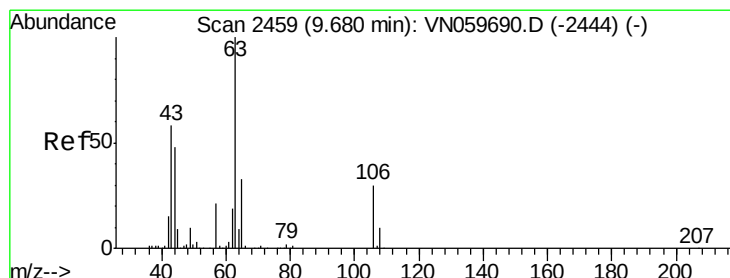
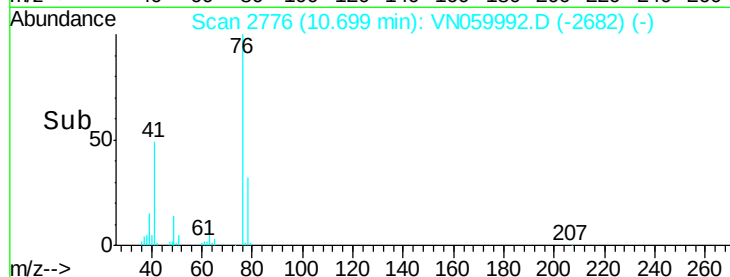
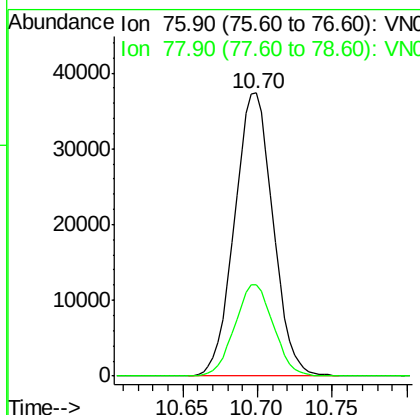
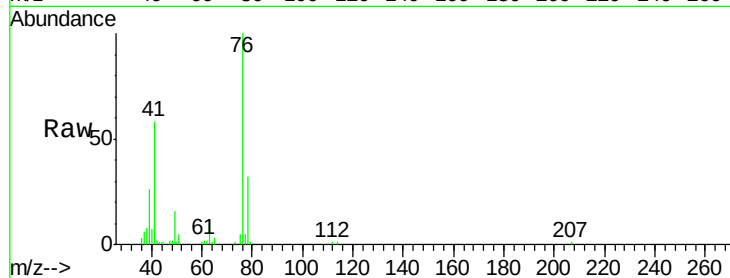
#57
 1,3-Dichloropropane
 Concen: 21.804 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.8

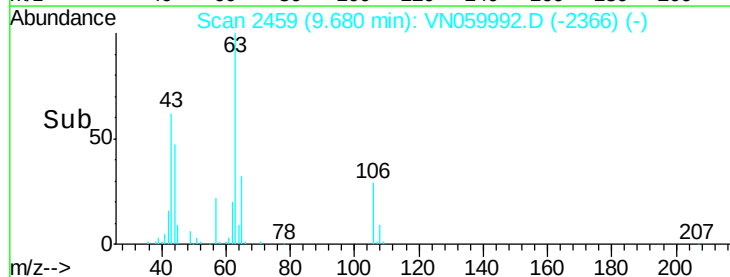
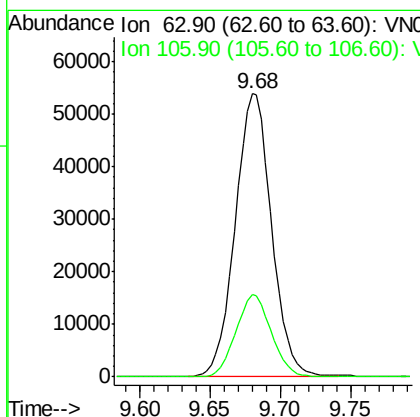
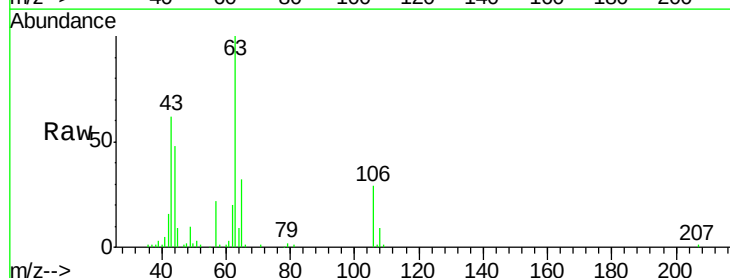
Manual Integrations
 APPROVED

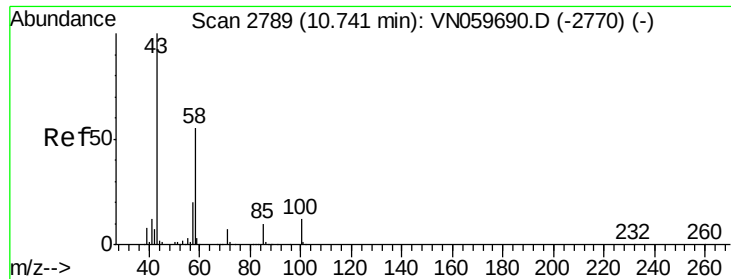
MMDadoda
 2/5/2020 12:21:16 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 109.260 ug/l
 RT: 9.68 min Scan# 2459
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.4	20.2	30.2





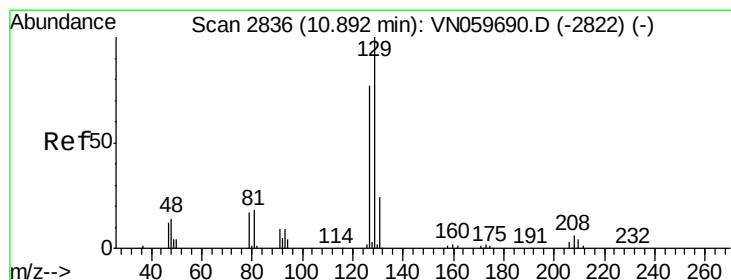
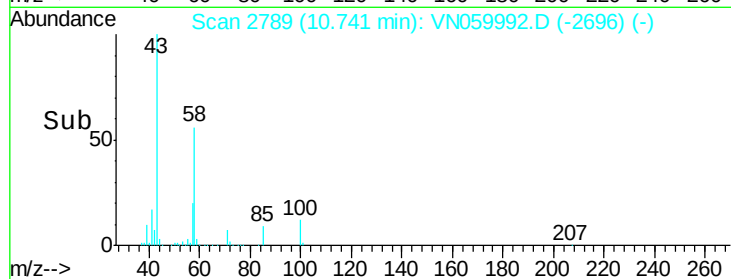
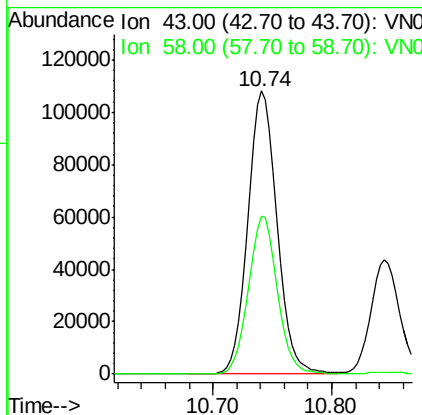
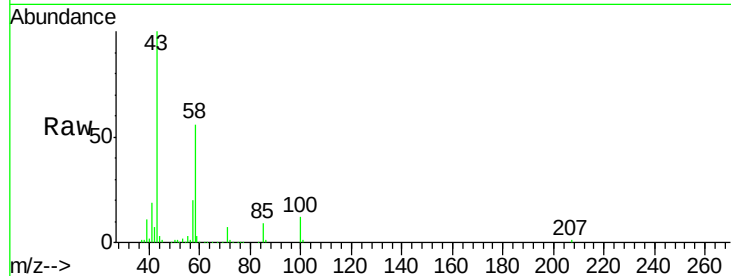
#59
2-Hexanone
Concen: 103.585 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion: 43 Resp: 184305
Ion Ratio Lower Upper
43 100
58 55.2 25.8 77.3

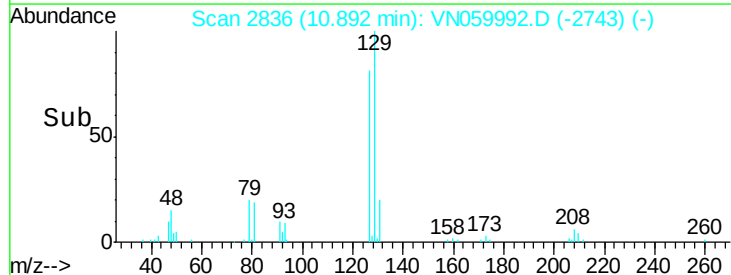
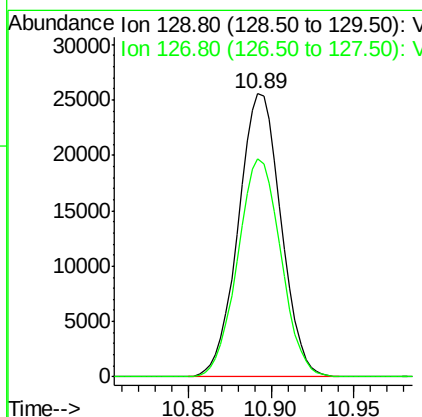
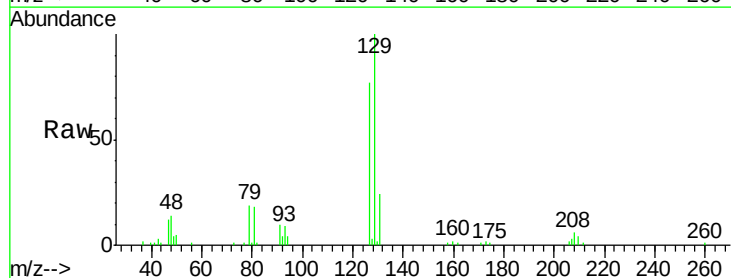
Manual Integrations
APPROVED

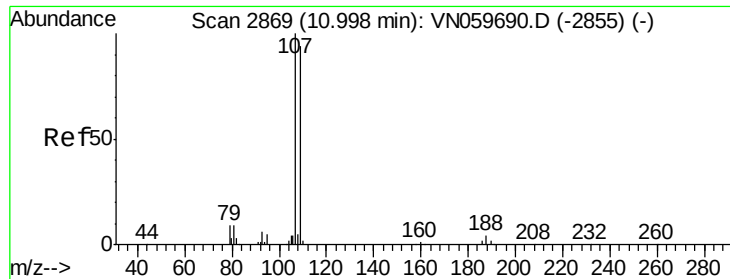
MMDadoda
2/5/2020 12:21:16 PM



#60
Dibromochloromethane
Concen: 20.852 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion: 129 Resp: 45881
Ion Ratio Lower Upper
129 100
127 77.9 38.5 115.5





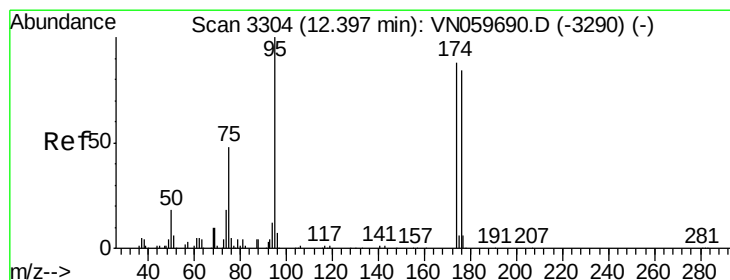
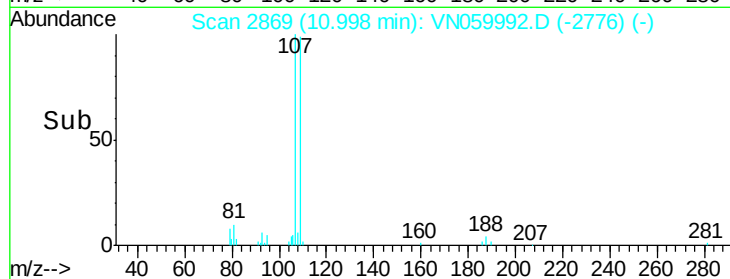
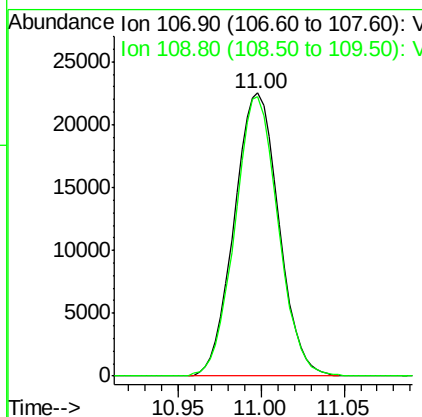
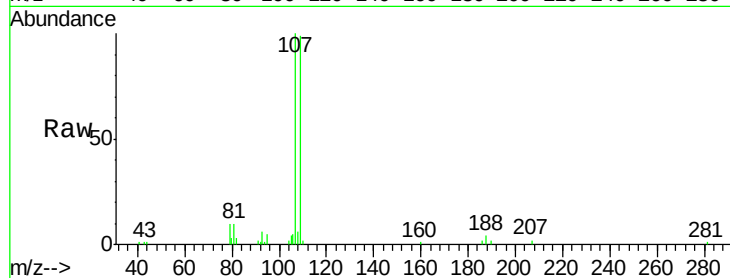
#61
 1,2-Dibromoethane
 Concen: 20.777 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampled :
 VN0204WBSD01

Tot Ion: 107 Resp: 42077
 Ion Ratio Lower Upper
 107 100
 109 95.8 76.6 115.0

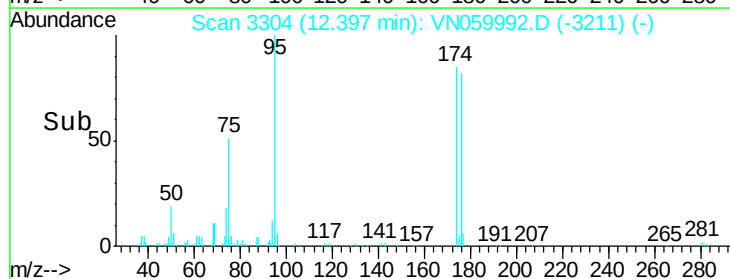
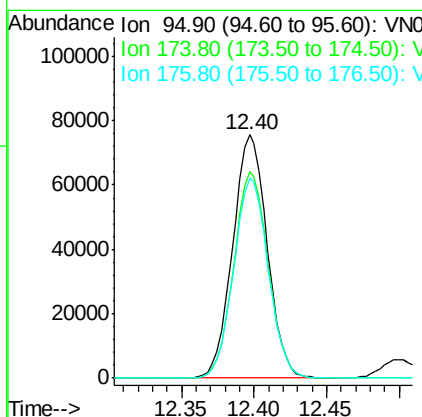
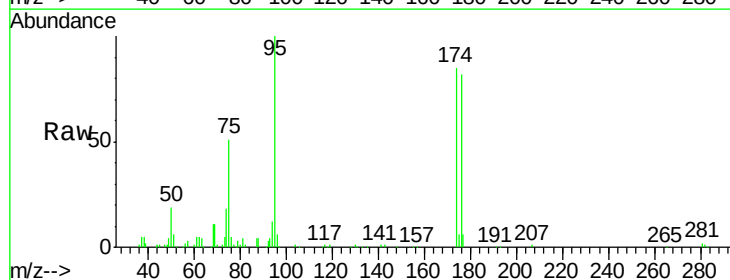
Manual Integrations
 APPROVED

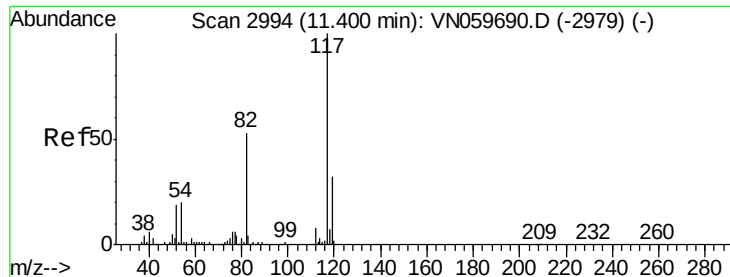
MMDadoda
 2/5/2020 12:21:16 PM



#62
 4-Bromofluorobenzene
 Concen: 50.201 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion: 95 Resp: 124355
 Ion Ratio Lower Upper
 95 100
 174 85.2 0.0 151.4
 176 82.6 0.0 146.0





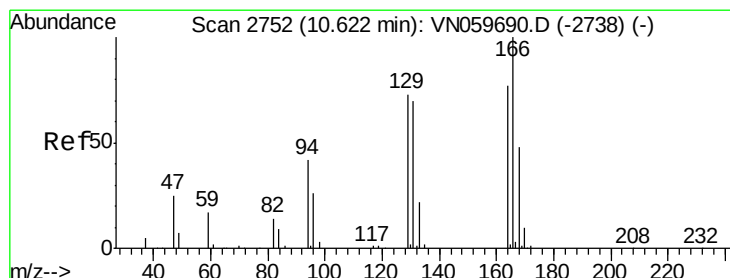
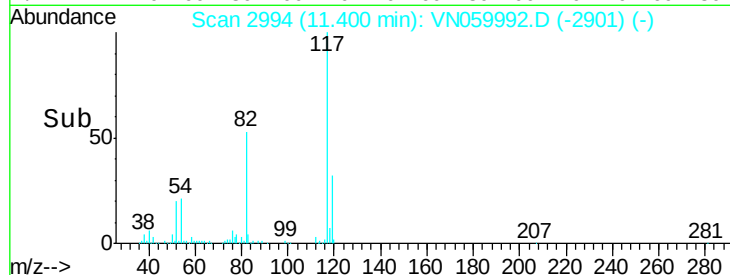
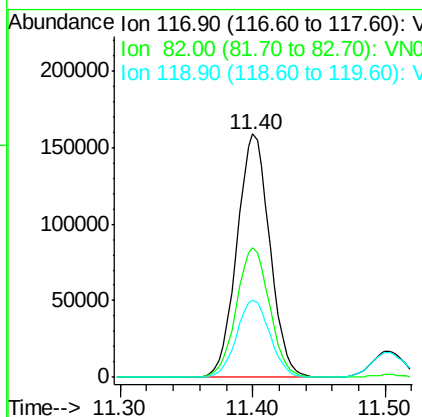
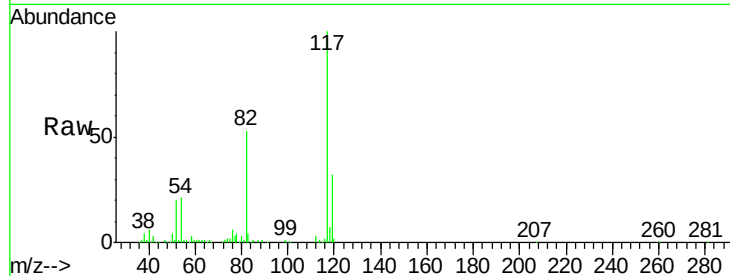
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	272721		
82	53.1	45.9	68.9	
119	31.9	25.5	38.3	

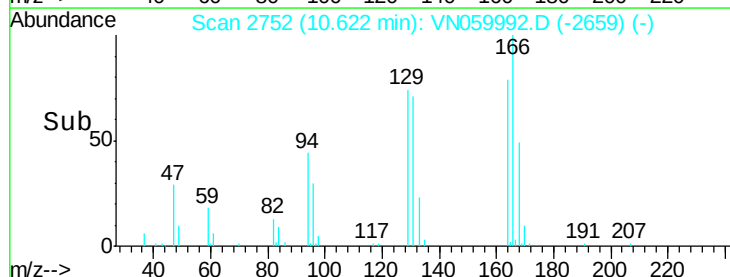
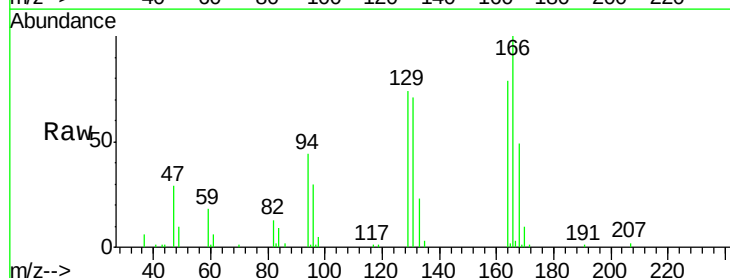
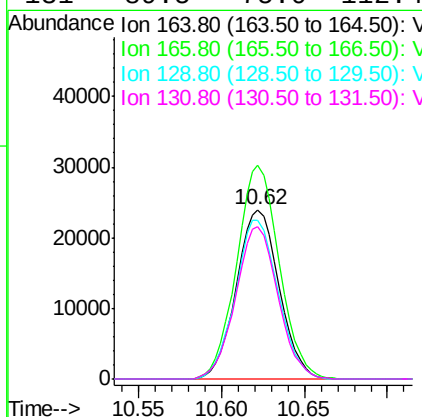
Manual Integrations
APPROVED

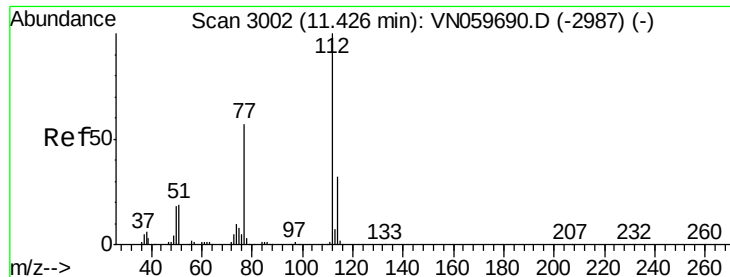
MMDadoda
2/5/2020 12:21:16 PM



#64
Tetrachloroethene
Concen: 19.321 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	42944		
166	125.9	101.4	152.0	
129	93.4	80.2	120.4	
131	89.5	75.0	112.4	





#65

Chlorobenzene

Concen: 19.930 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampled :

VN0204WBSD01

Tot Ion:112 Resp: 106835

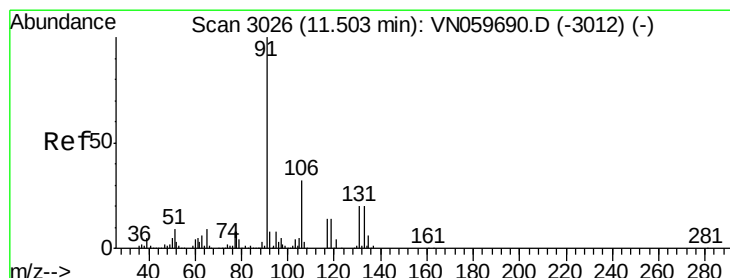
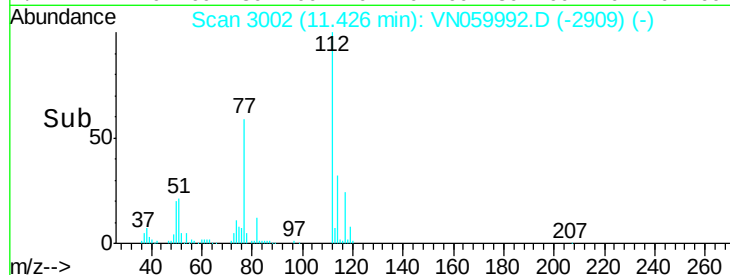
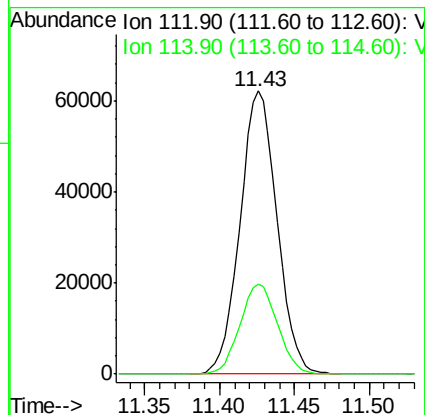
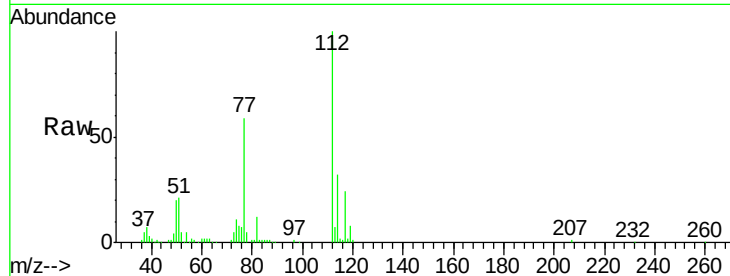
Ion Ratio Lower Upper

112 100

114 32.0 25.8 38.8

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 20.428 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

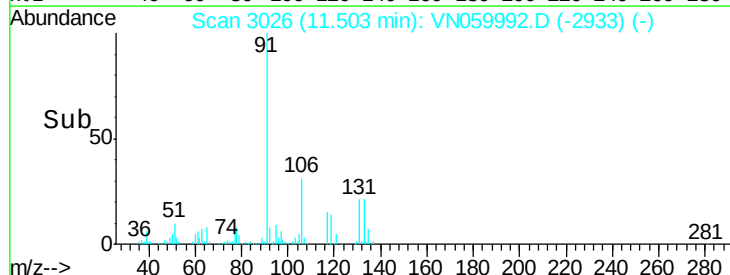
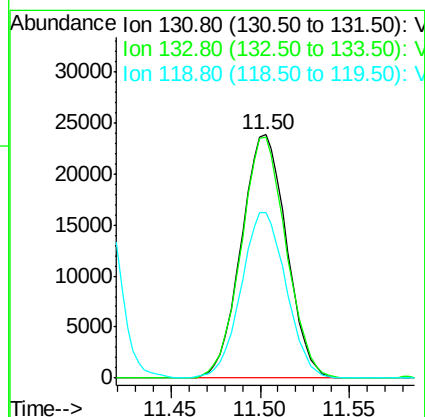
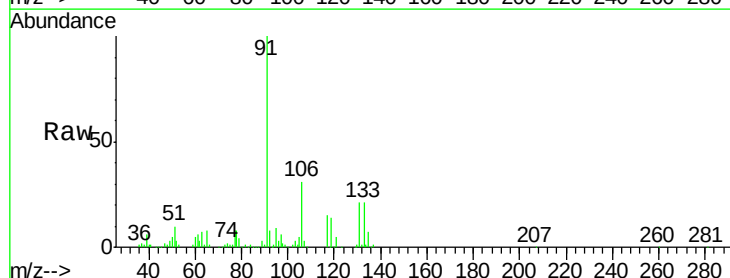
Tgt Ion:131 Resp: 42312

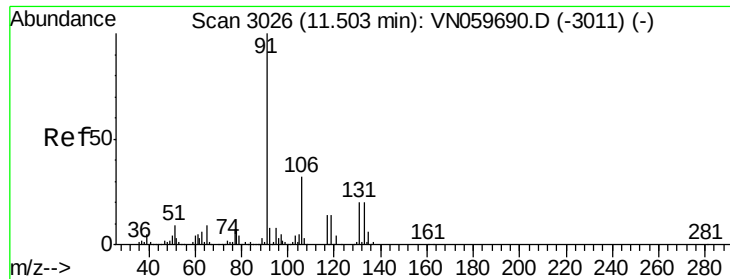
Ion Ratio Lower Upper

131 100

133 98.3 47.4 142.2

119 67.6 33.1 99.3





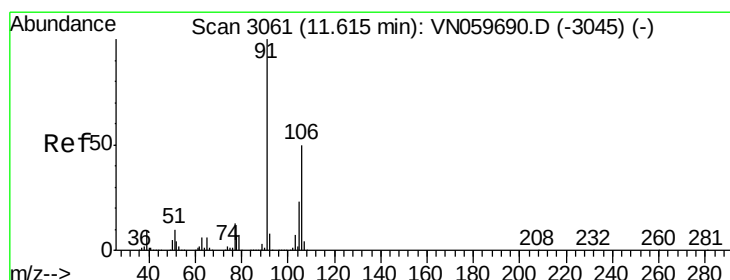
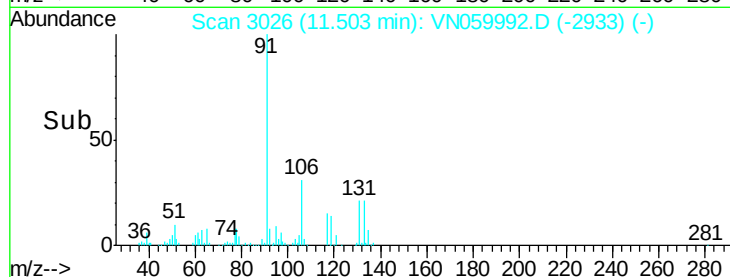
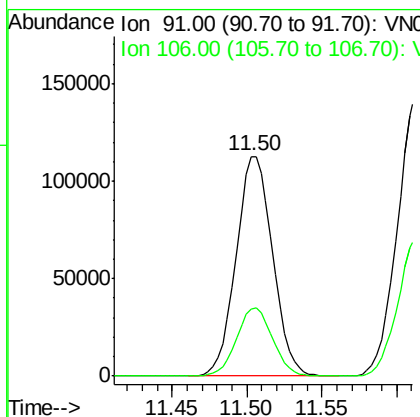
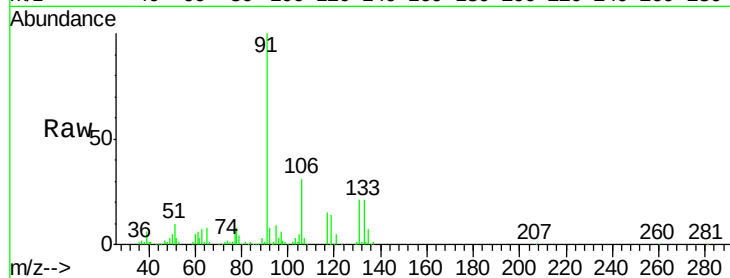
#67
Ethyl Benzene
Concen: 19.676 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0204WBSD01

Tot Ion: 91 Resp: 191462
Ion Ratio Lower Upper
91 100
106 30.8 24.1 36.1

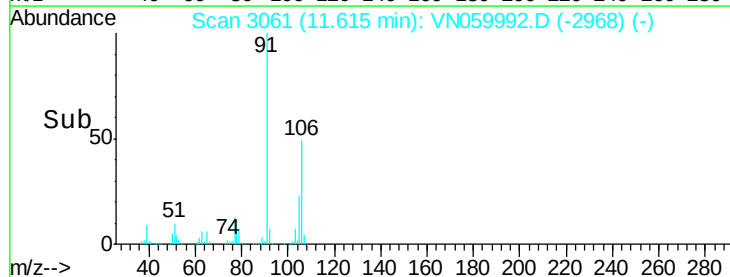
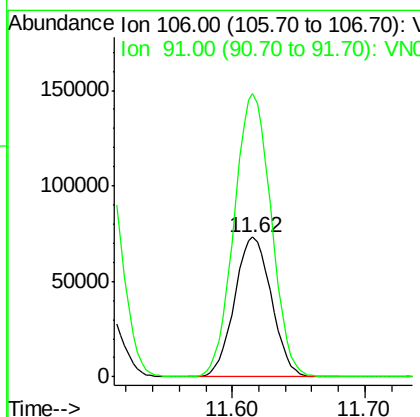
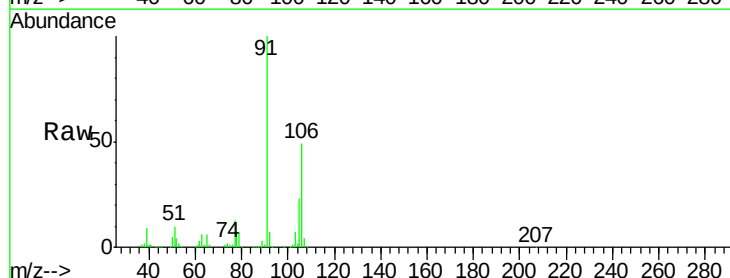
Manual Integrations
APPROVED

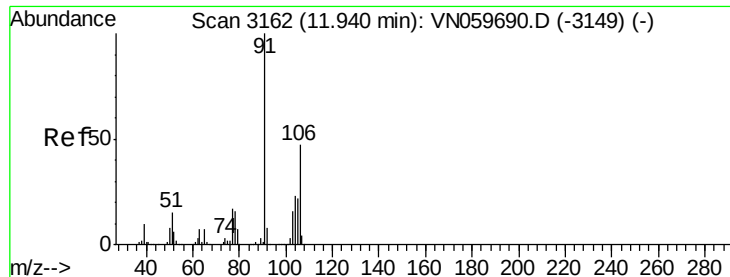
MMDadoda
2/5/2020 12:21:16 PM



#68
m/p-Xylenes
Concen: 38.491 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion: 106 Resp: 141484
Ion Ratio Lower Upper
106 100
91 202.8 167.9 251.9





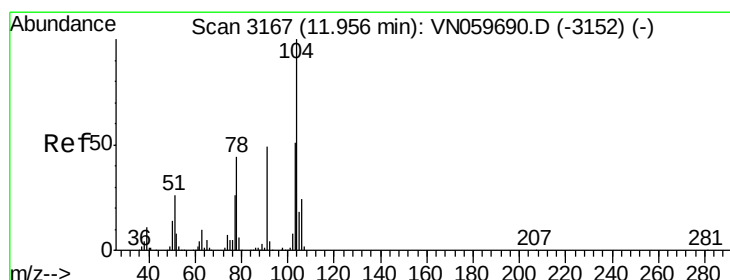
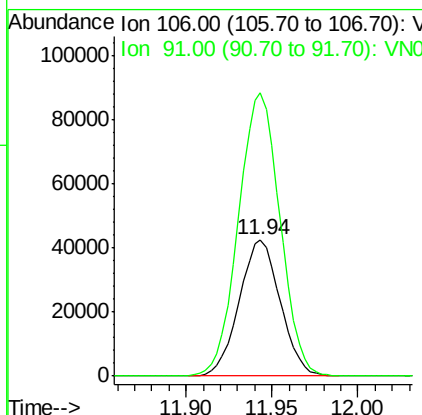
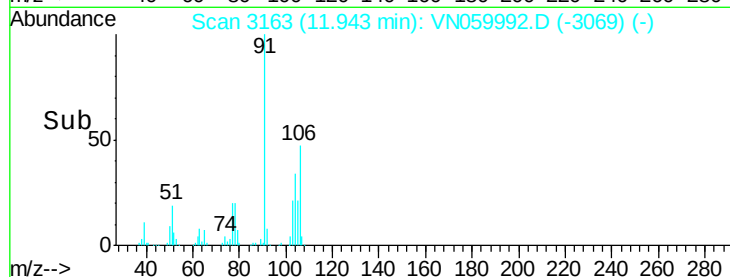
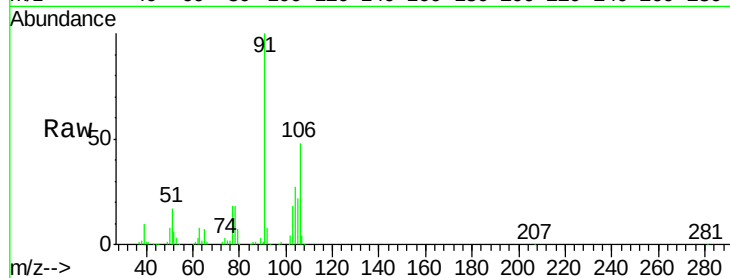
#69
o-Xylene
Concen: 19.530 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0204WBSD01

Tot Ion:106 Resp: 70280
Ion Ratio Lower Upper
106 100
91 211.1 110.3 330.9

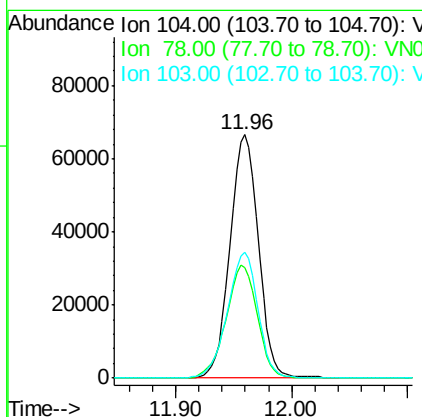
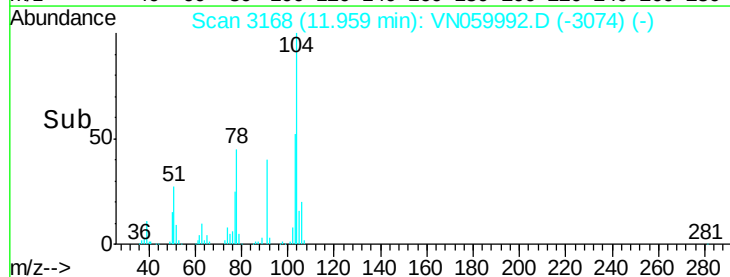
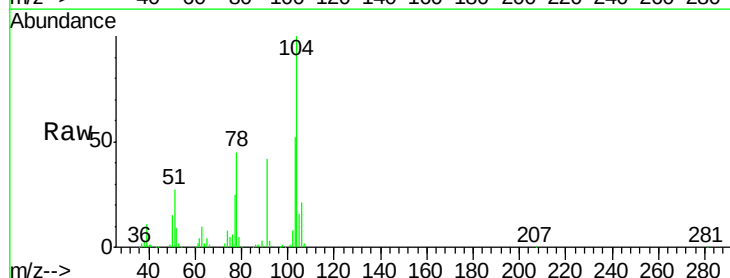
Manual Integrations
APPROVED

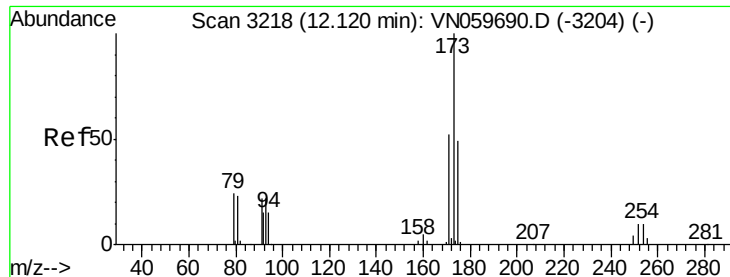
MMDadoda
2/5/2020 12:21:16 PM



#70
Styrene
Concen: 18.736 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion:104 Resp: 112822
Ion Ratio Lower Upper
104 100
78 50.7 42.4 63.6
103 55.3 43.9 65.9





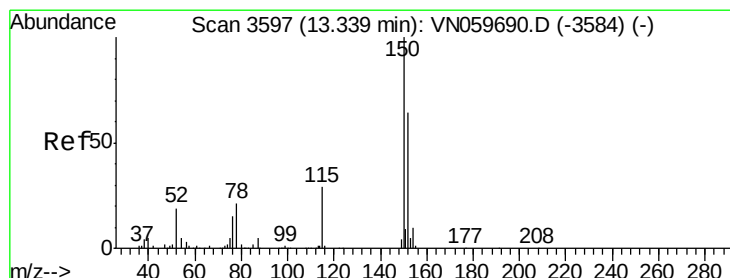
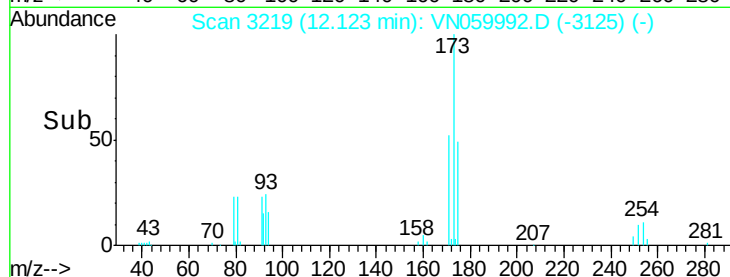
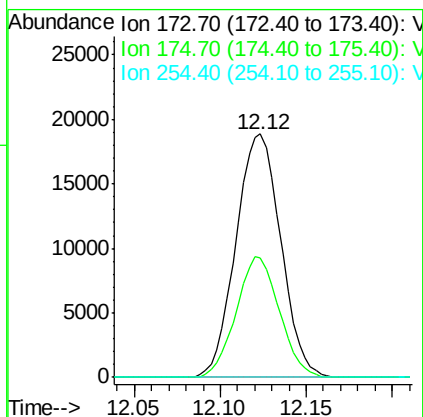
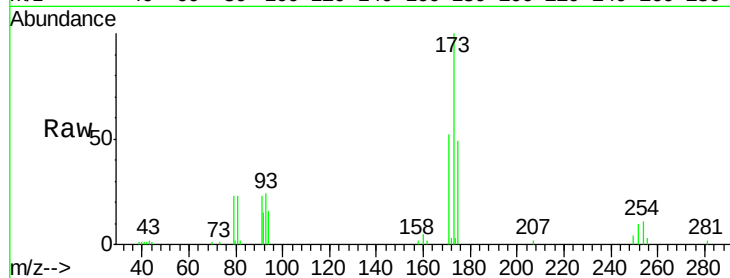
#71
Bromoform
Concen: 20.560 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	23.8	71.4
254	0.0	0.0	0.0

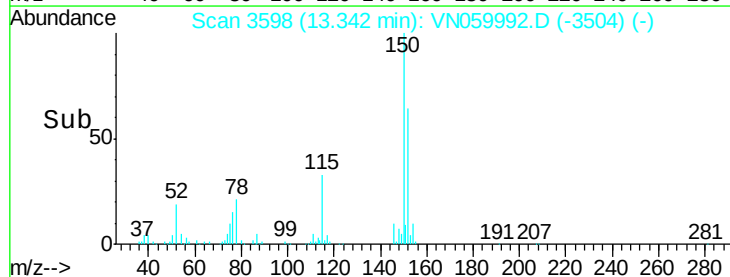
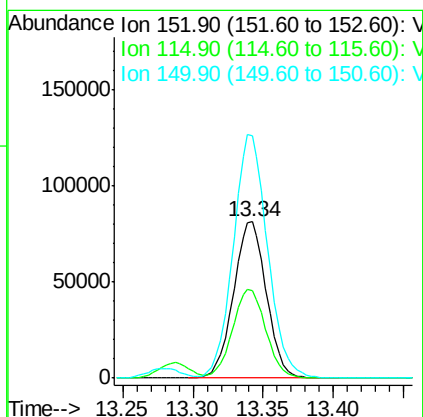
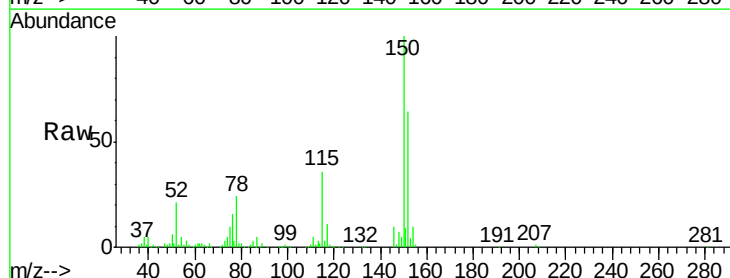
Manual Integrations
APPROVED

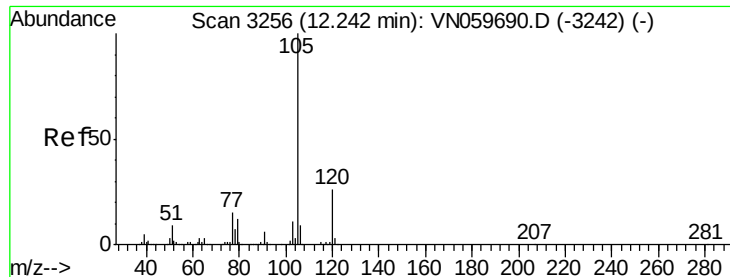
MMDadoda
2/5/2020 12:21:16 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	30.3	90.9
150	163.2	0.0	345.2





#73

Isopropylbenzene

Concen: 19.089 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD01

Tot Ion:105 Resp: 185609

Ion Ratio Lower Upper

105 100

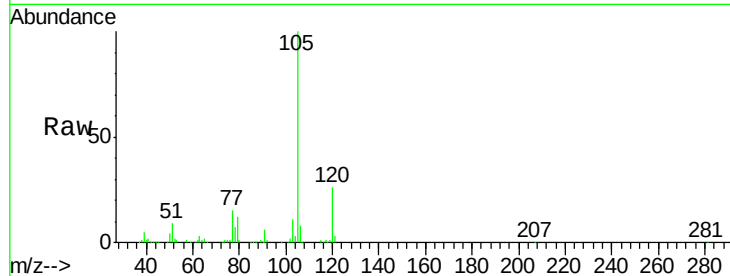
120 26.5 13.2 39.5

Manual Integrations

APPROVED

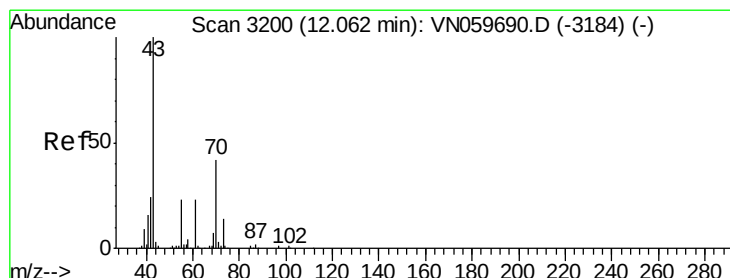
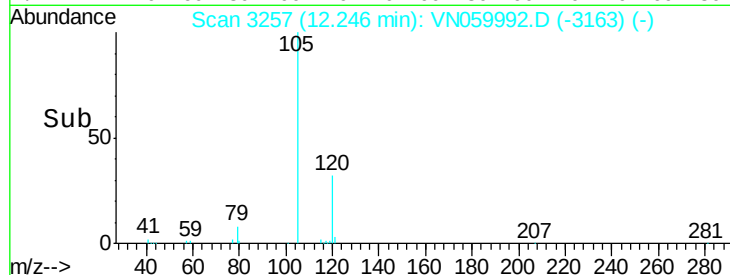
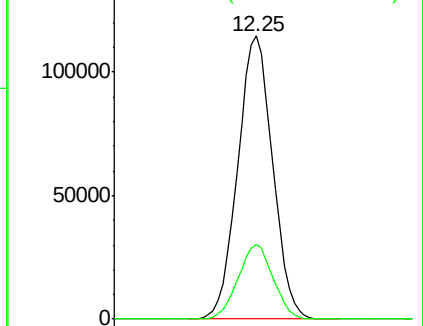
MMDadoda

2/5/2020 12:21:16 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.045 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion: 43 Resp: 71855

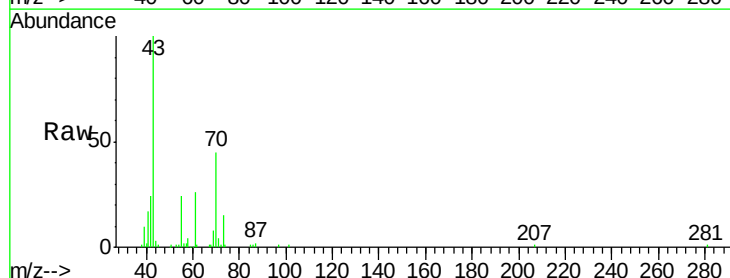
Ion Ratio Lower Upper

43 100

70 44.0 31.3 46.9

55 23.5 19.8 29.6

61 24.4 18.3 27.5

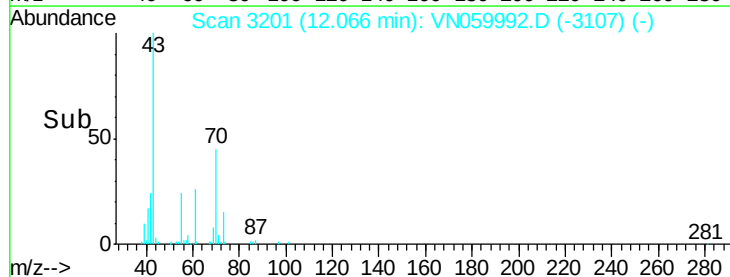
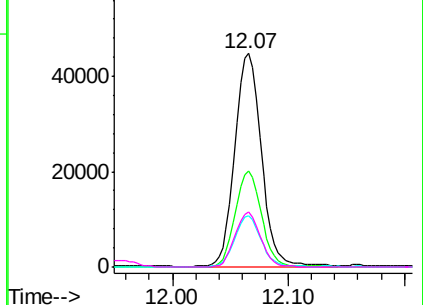


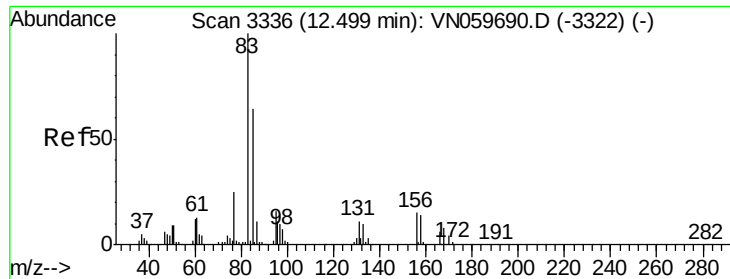
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 20.321 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

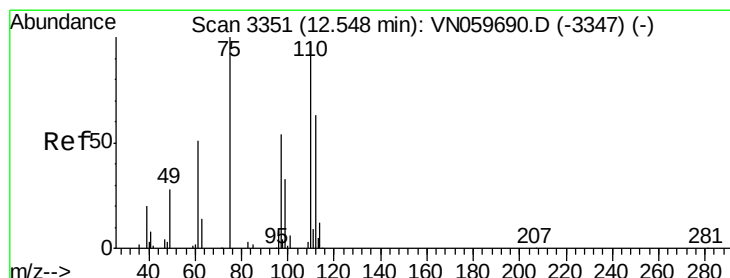
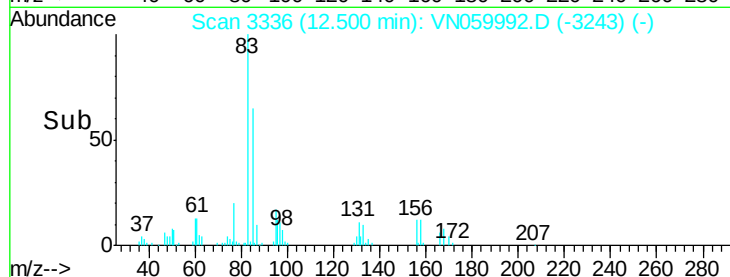
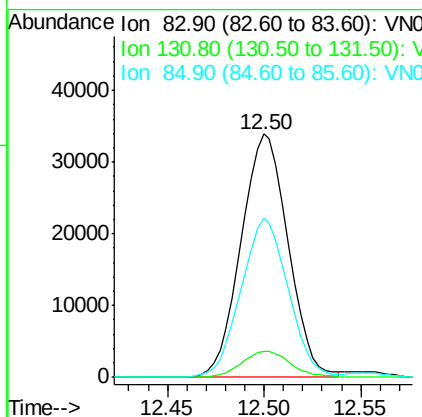
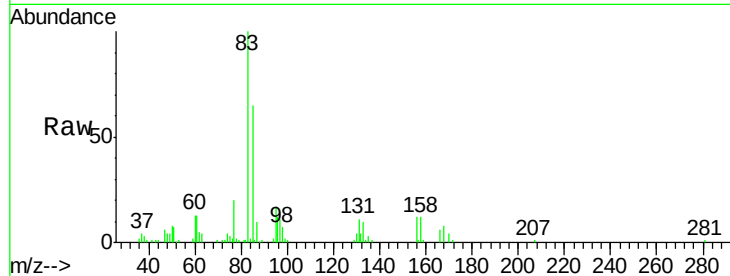
ClientSampleId :

VN0204WBSD01

Tot Ion:	83	Resp:	57281
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.0	14.9
85	65.6	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#76

1,2,3-Trichloropropane

Concen: 24.918 ug/l m

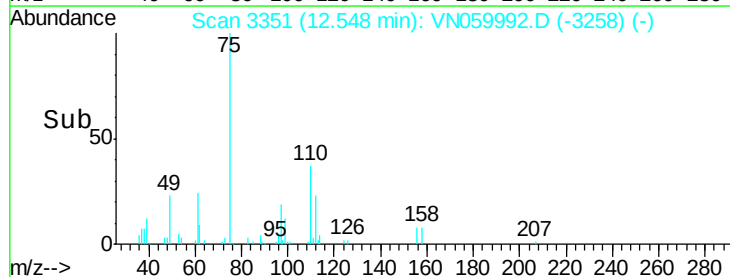
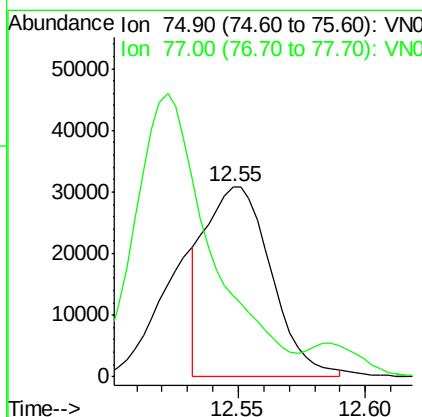
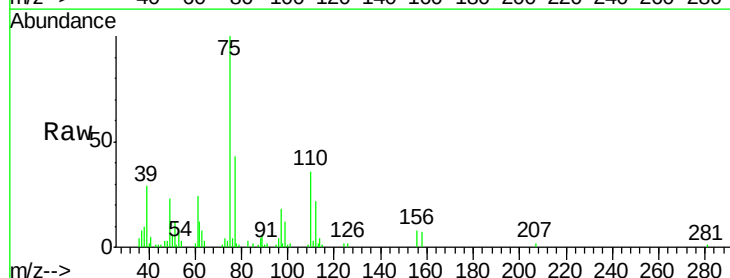
RT: 12.55 min Scan# 3351

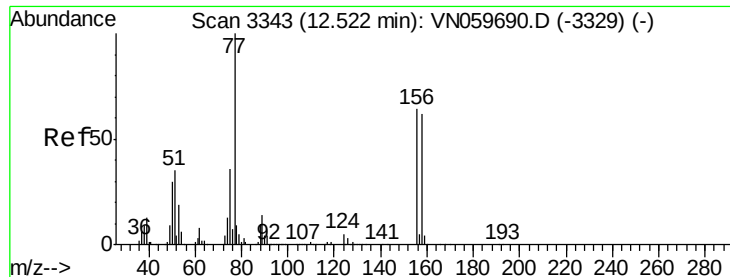
Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion:	75	Resp:	55598
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.842 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

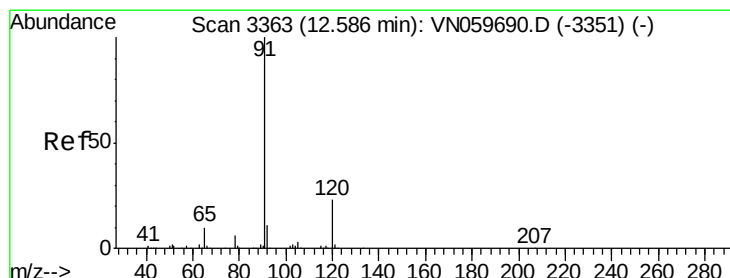
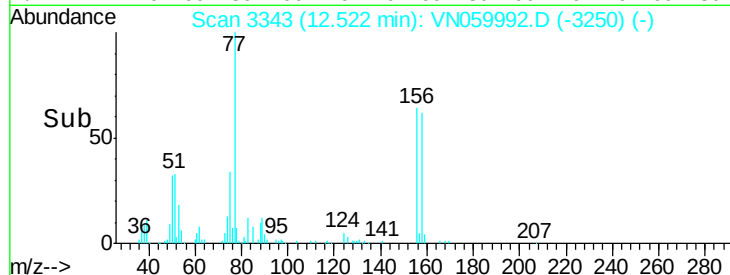
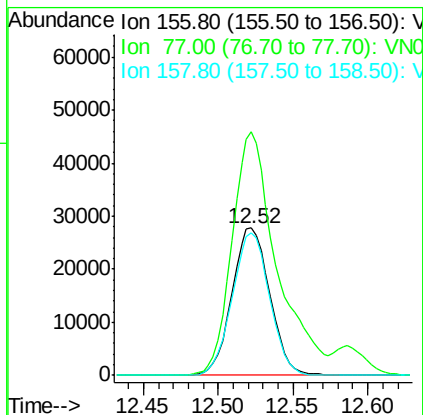
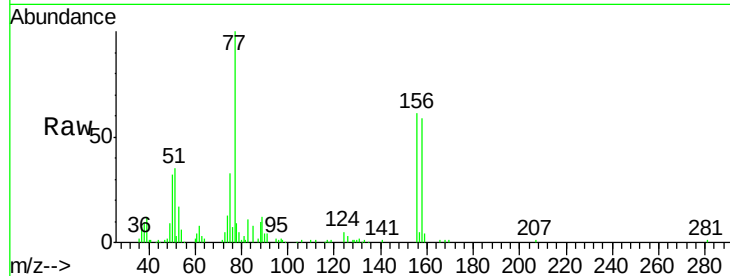
ClientSampleId :

VN0204WBSD01

Tot Ion:	156	Resp:	48859
Ion Ratio	Lower	Upper	
156	100		
77	195.9	115.8	347.4
158	95.4	49.2	147.6

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#78

n-propylbenzene

Concen: 19.492 ug/l

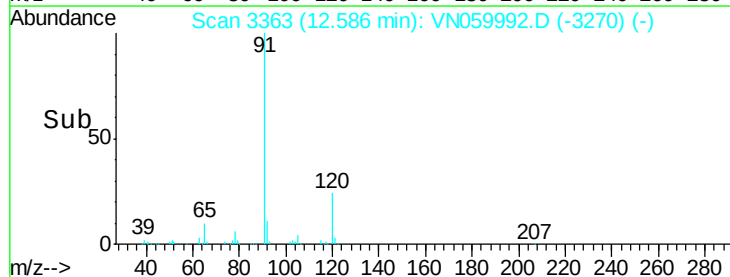
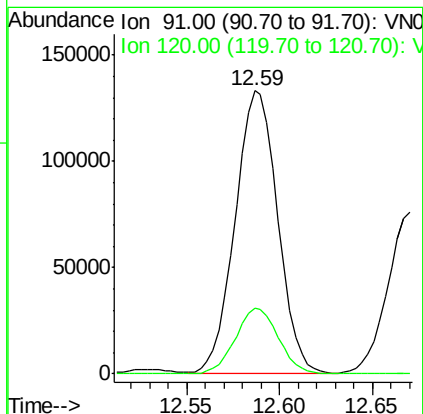
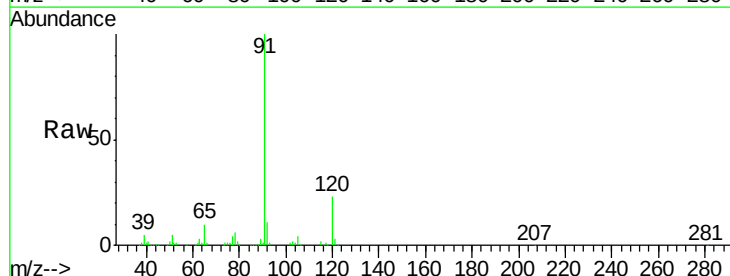
RT: 12.59 min Scan# 3363

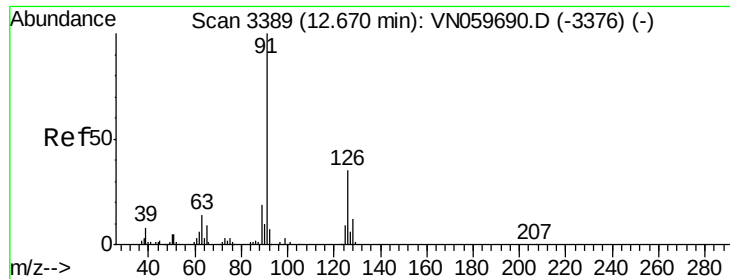
Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion:	91	Resp:	212729
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.1	33.3





#79

2-Chlorotoluene

Concen: 19.555 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampled :

VN0204WBSD01

Tot Ion: 91 Resp: 126963

Ion Ratio Lower Upper

91 100

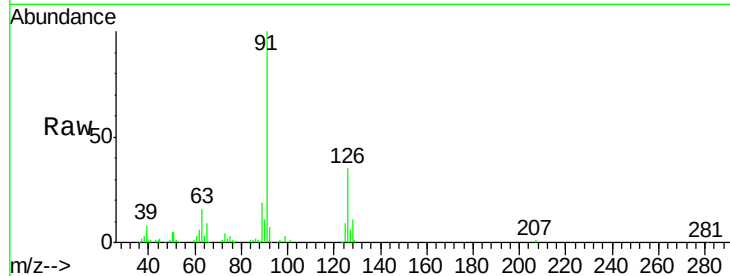
126 34.9 16.3 48.9

Manual Integrations

APPROVED

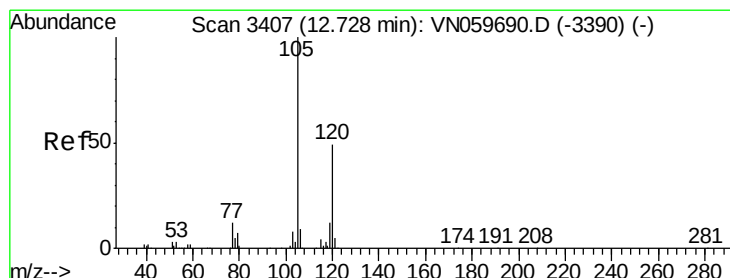
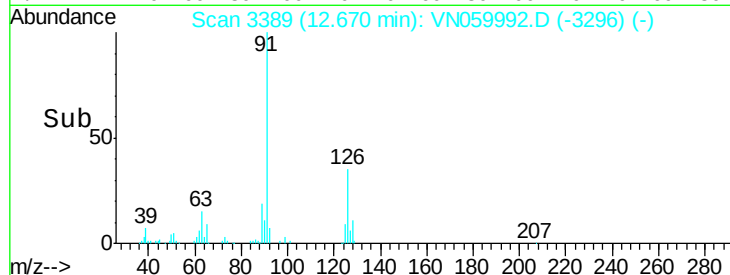
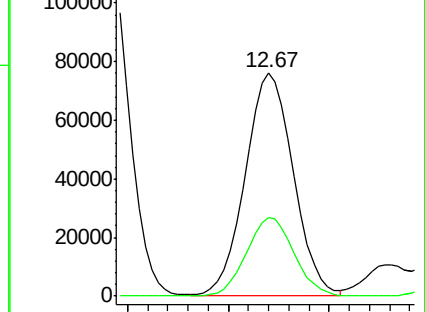
MMDadoda

2/5/2020 12:21:16 PM



Abundance Ion 91.00 (90.70 to 91.70): VN059992.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN059992.D (-3376) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.341 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059992.D

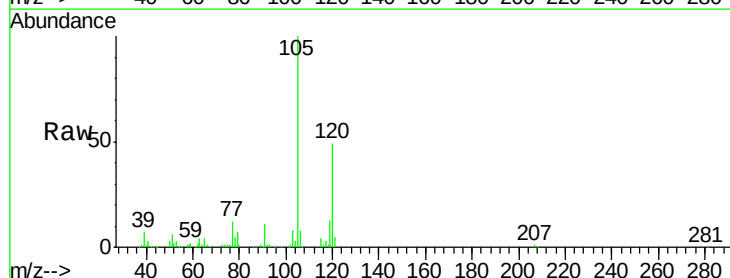
Acq: 4 Feb 2020 14:25

Tgt Ion: 105 Resp: 158161

Ion Ratio Lower Upper

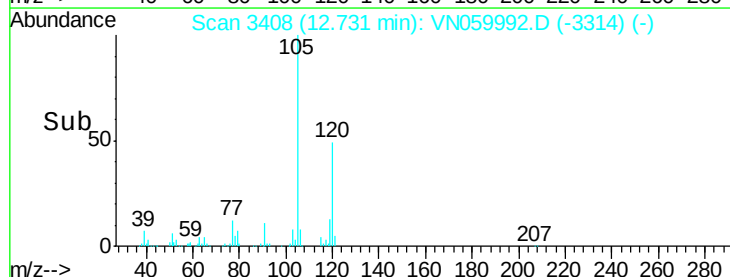
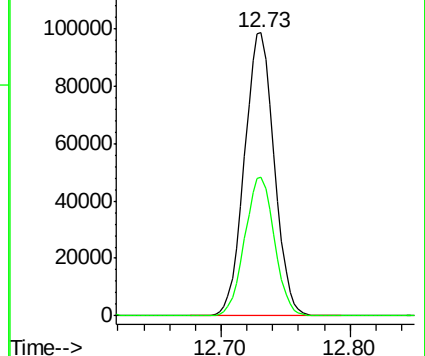
105 100

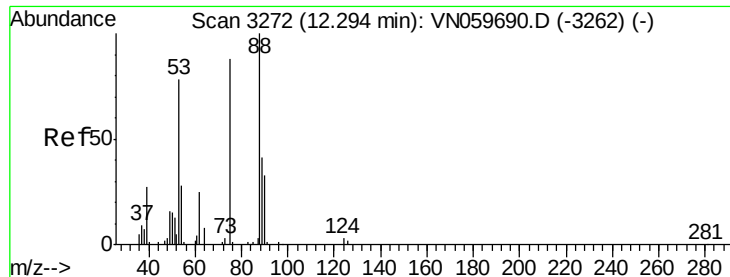
120 48.9 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059992.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN059992.D (-3390) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.954 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0204WBSD01

Tot Ion: 75 Resp: 20732

Ion Ratio Lower Upper

75 100

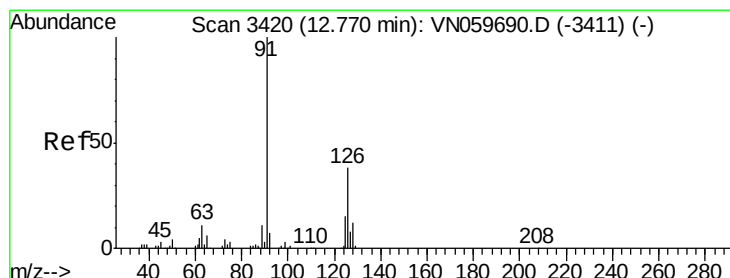
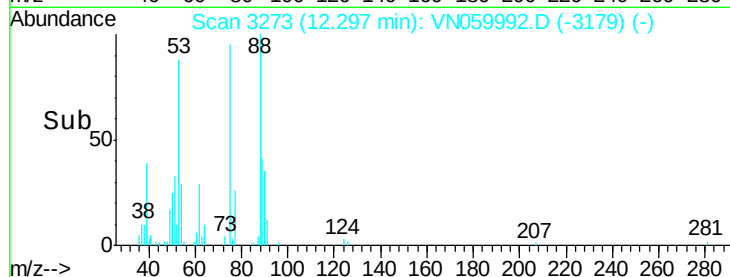
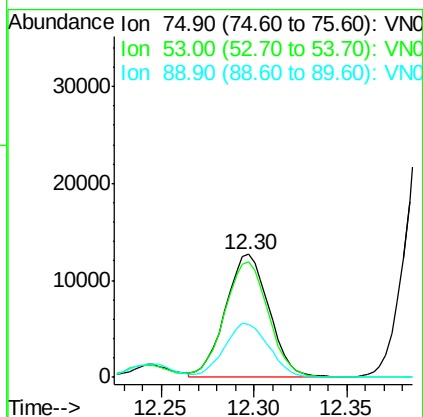
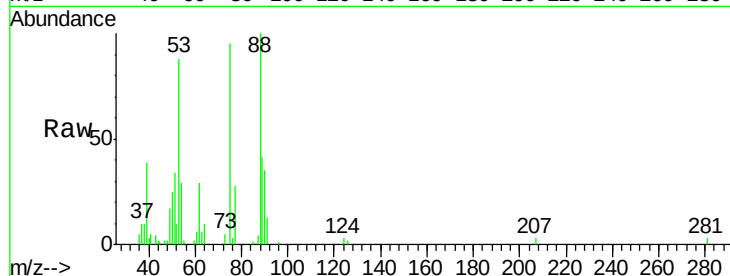
53 94.3 78.1 117.1

89 44.5 35.4 53.2

Manual Integrations
APPROVED

MMDadoda

2/5/2020 12:21:16 PM



#82

4-Chlorotoluene

Concen: 20.012 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. 0.00 min

Lab File: VN059992.D

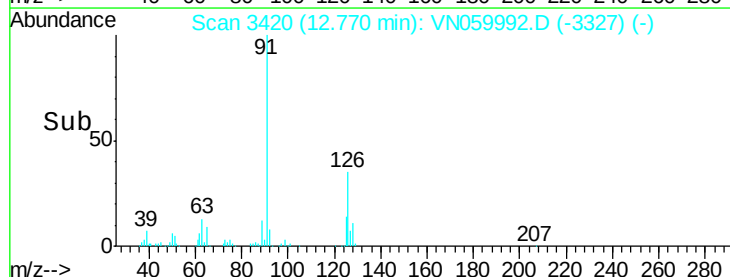
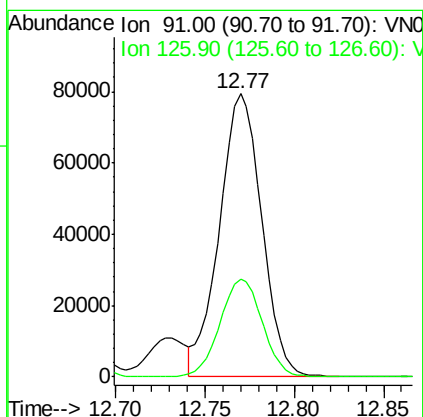
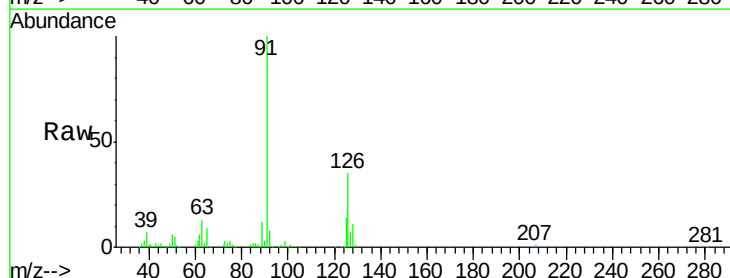
Acq: 4 Feb 2020 14:25

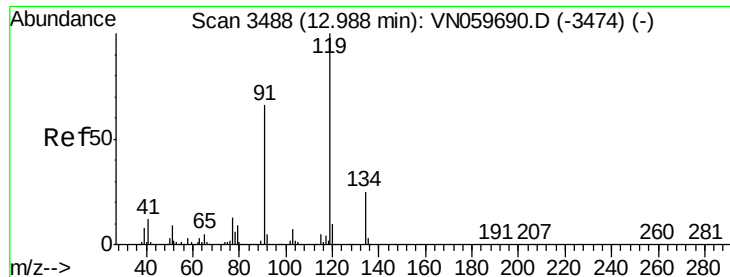
Tgt Ion: 91 Resp: 130316

Ion Ratio Lower Upper

91 100

126 34.7 16.3 48.8





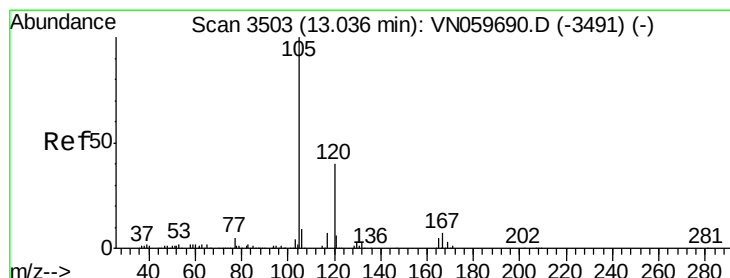
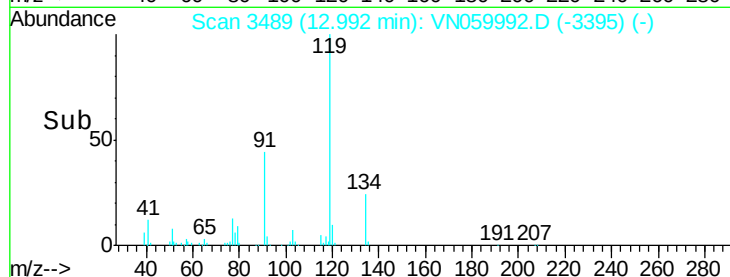
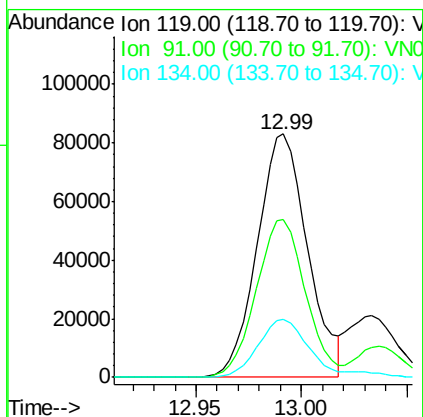
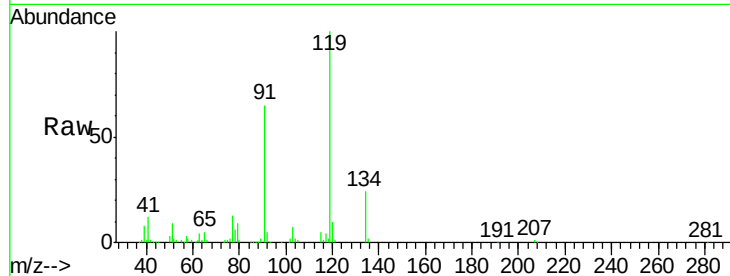
#83
 tert-Butylbenzene
 Concen: 19.476 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.2	34.8	104.4
134	25.2	12.3	36.9

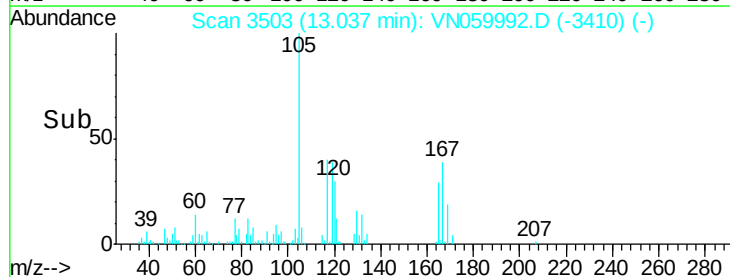
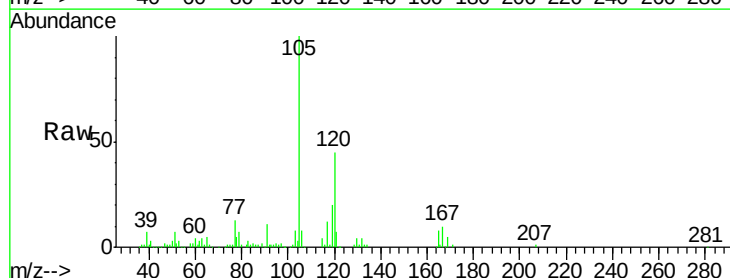
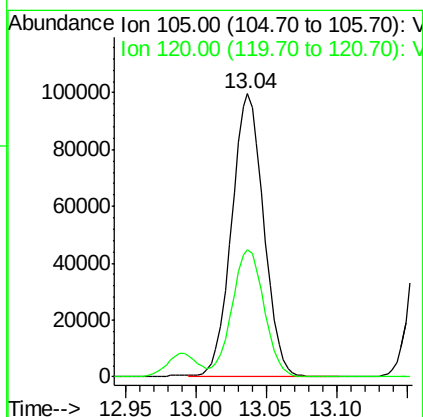
Manual Integrations
 APPROVED

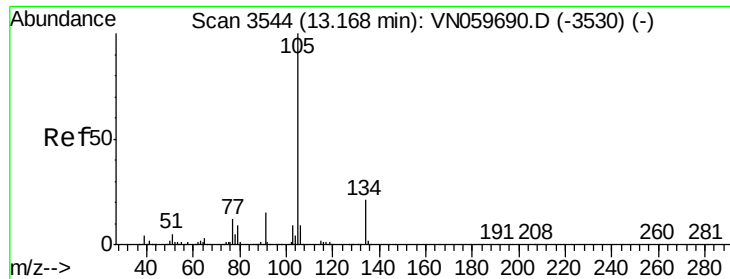
MMDadoda
 2/5/2020 12:21:16 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.596 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.3	66.9





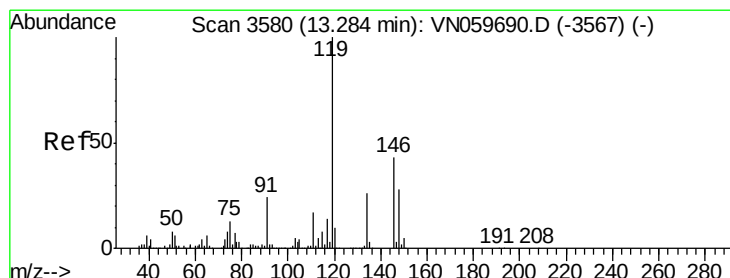
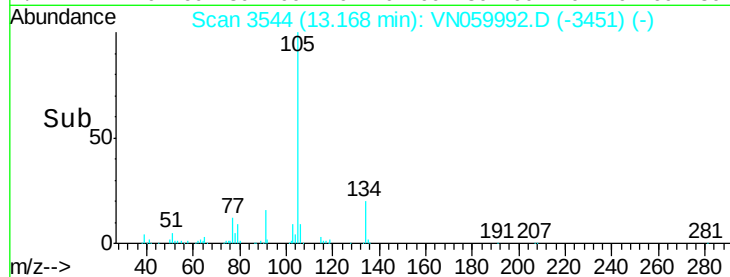
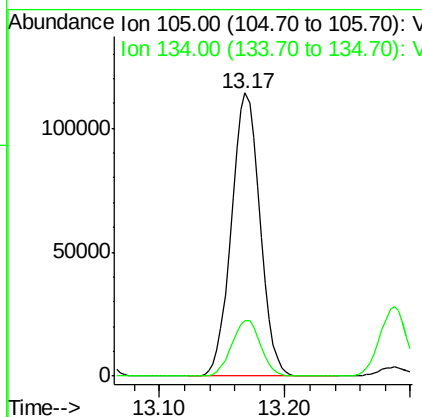
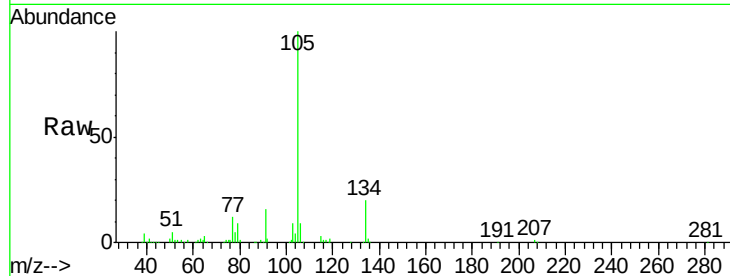
#85
 sec-Butylbenzene
 Concen: 19.422 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	180467		
134	20.1	9.8	29.5	

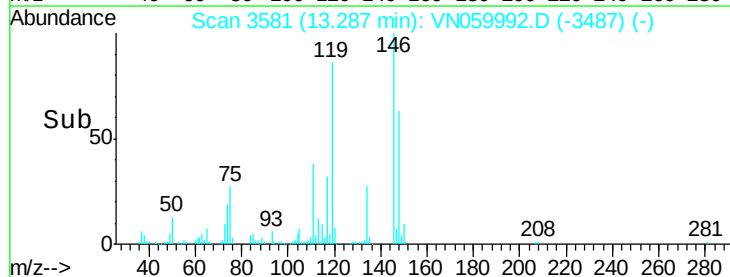
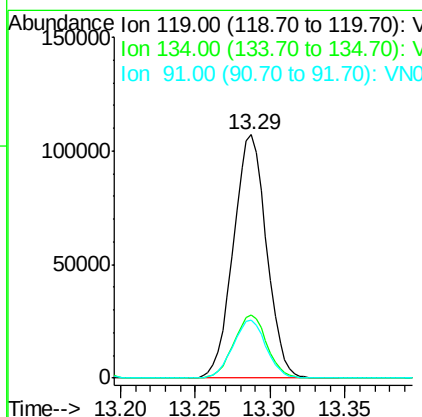
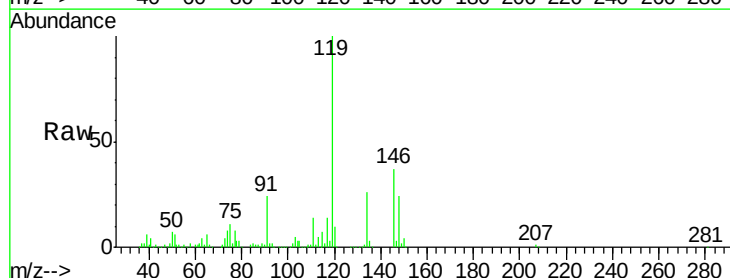
Manual Integrations
 APPROVED

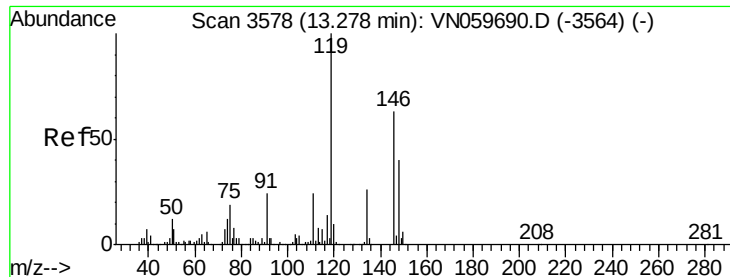
MMDadoda
 2/5/2020 12:21:16 PM



#86
 p-Isopropyltoluene
 Concen: 19.237 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	165397		
134	25.9	12.9	38.7	
91	23.8	12.4	37.4	





#87

1,3-Dichlorobenzene

Concen: 19.913 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN059992.D

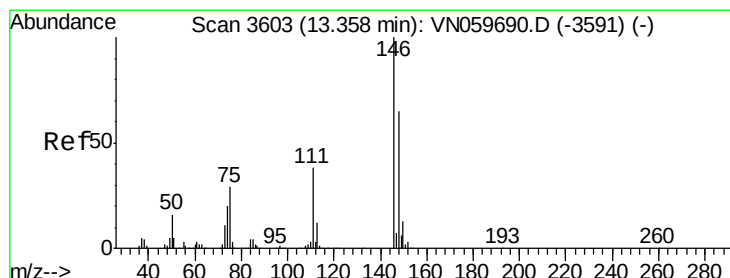
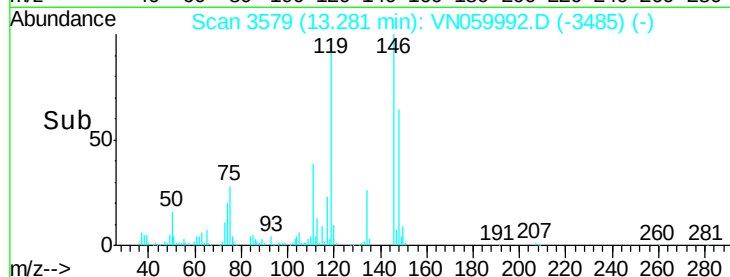
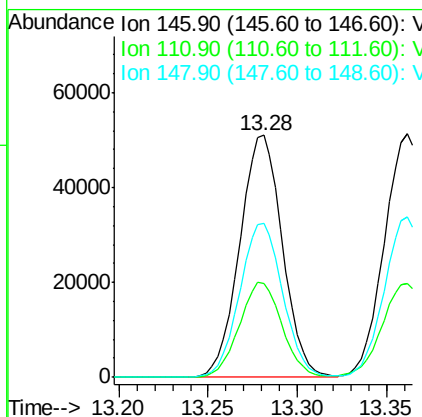
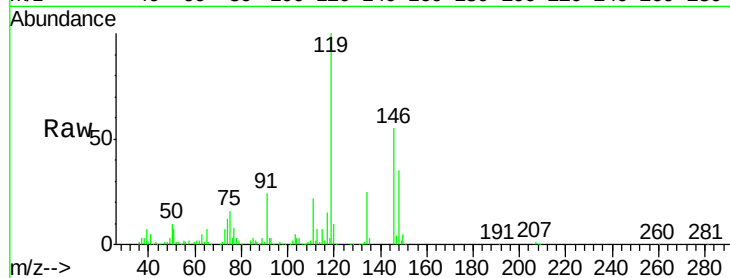
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	20.8	62.2
148	64.2	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#88

1,4-Dichlorobenzene

Concen: 19.988 ug/l

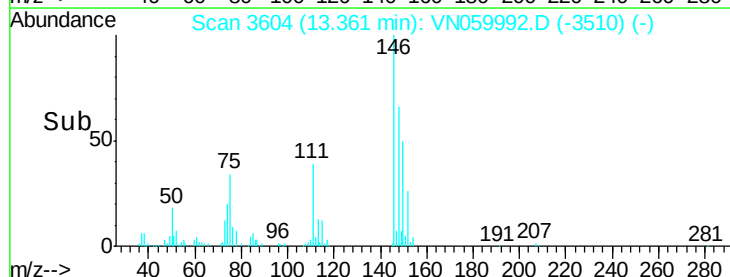
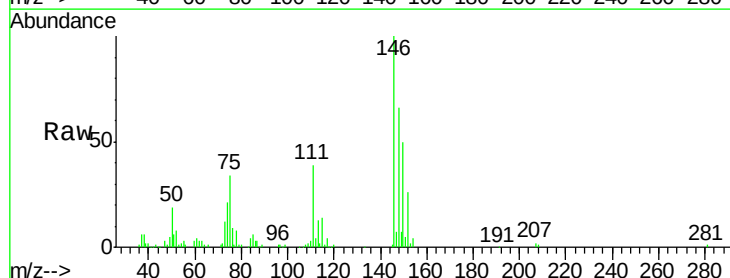
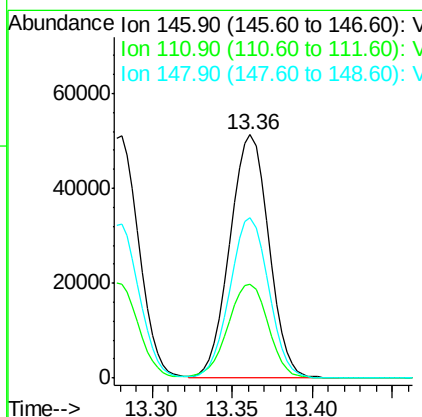
RT: 13.36 min Scan# 3604

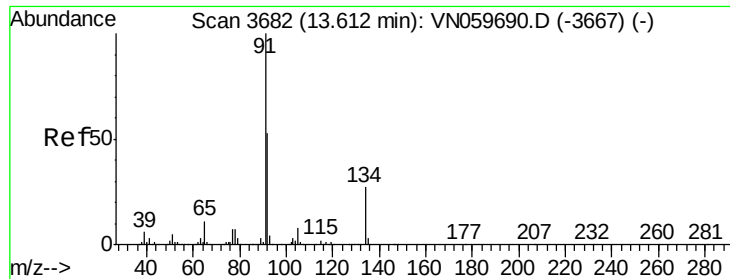
Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.8	62.2
148	65.8	31.8	95.4





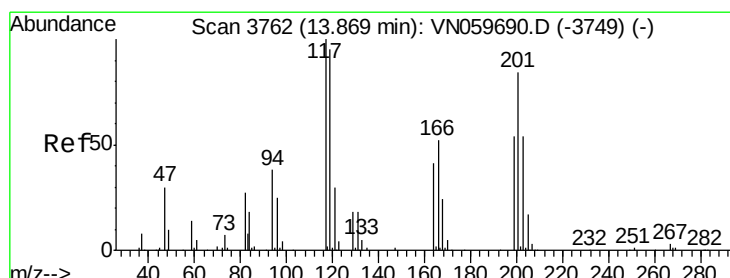
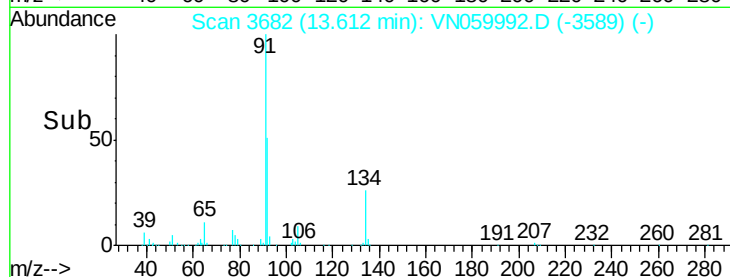
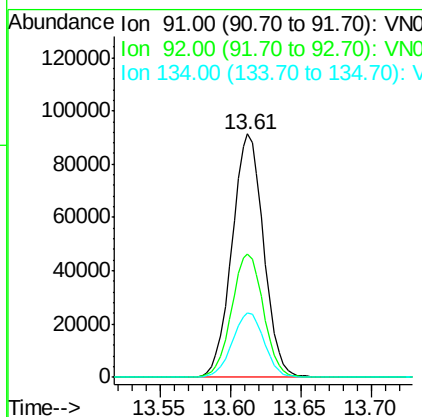
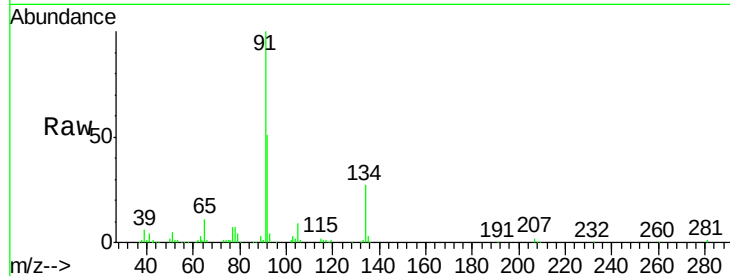
#89
n-Butylbenzene
Concen: 19.560 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.1	25.9	77.7
134	26.6	12.3	36.8

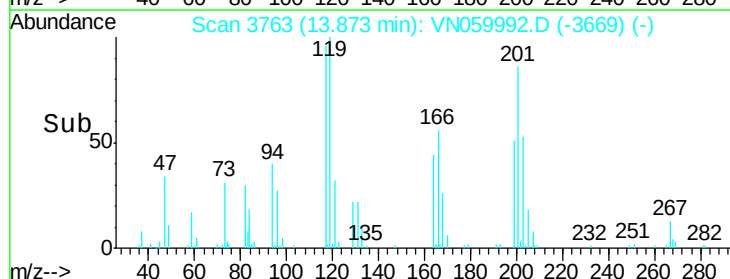
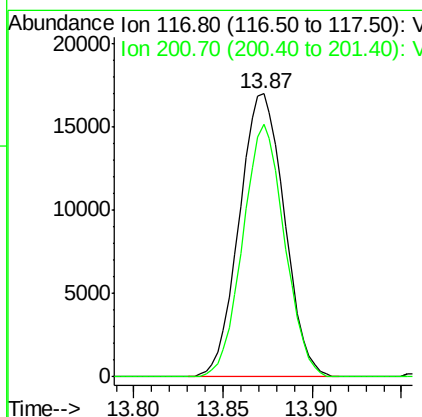
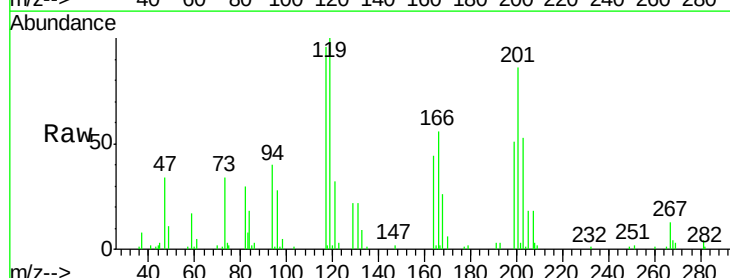
Manual Integrations
APPROVED

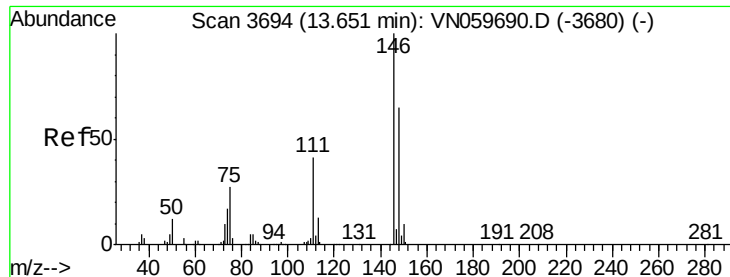
MMDadoda
2/5/2020 12:21:16 PM



#90
Hexachloroethane
Concen: 18.688 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.2	37.8	113.4





#91

1,2-Dichlorobenzene

Concen: 20.097 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Instrument :

MSVOA_N

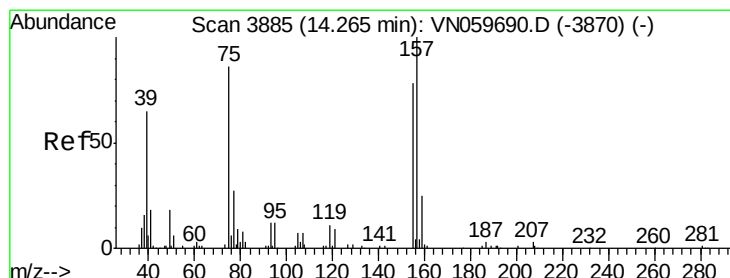
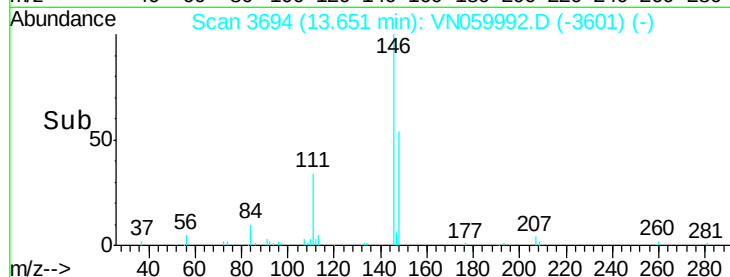
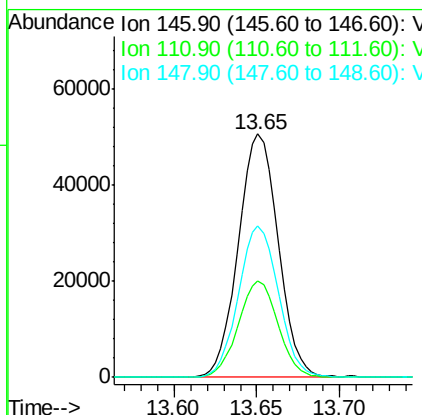
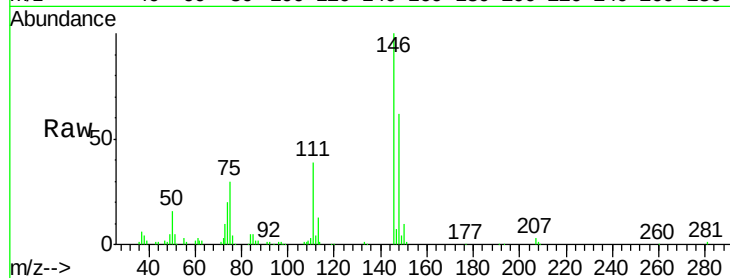
ClientSampled :

VN0204WBSD01

Tot Ion:	146	Resp:	84982
Ion Ratio	Lower	Upper	
146	100		
111	39.2	21.6	64.8
148	62.4	31.6	95.0

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.204 ug/l

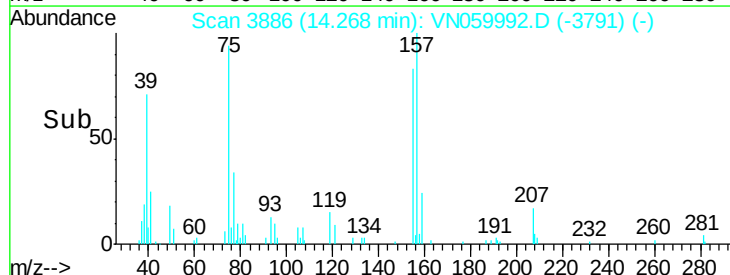
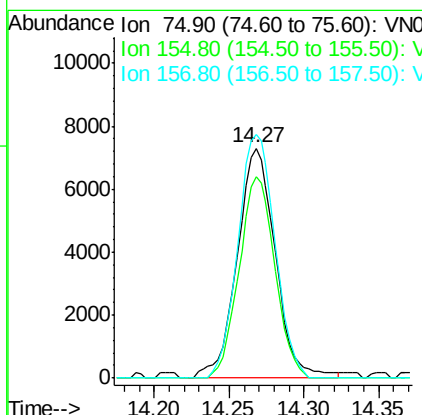
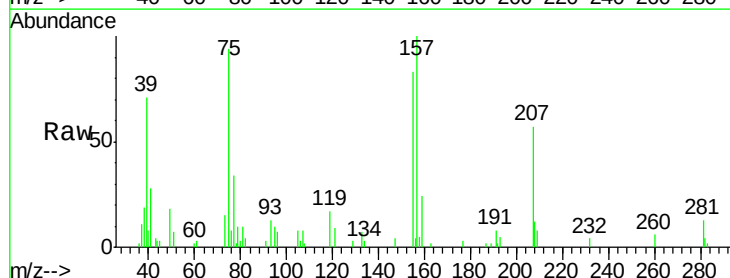
RT: 14.27 min Scan# 3886

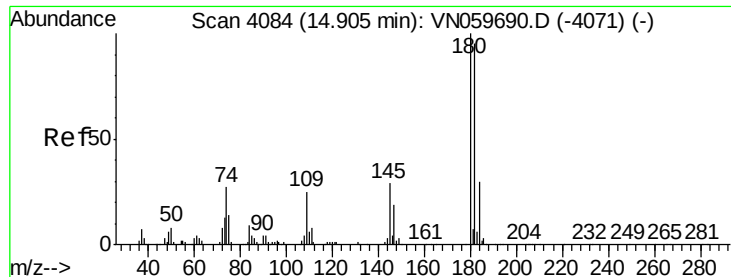
Delta R.T. 0.00 min

Lab File: VN059992.D

Acq: 4 Feb 2020 14:25

Tgt Ion:	75	Resp:	12977
Ion Ratio	Lower	Upper	
75	100		
155	81.7	37.0	110.9
157	102.9	48.4	145.2





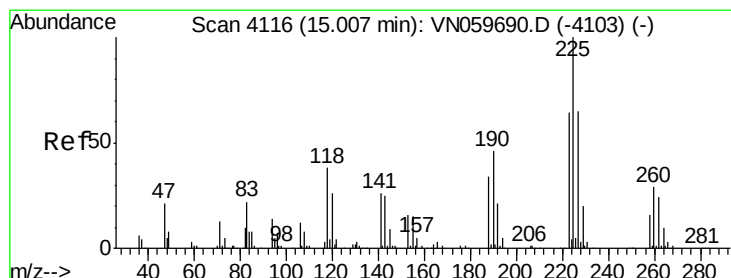
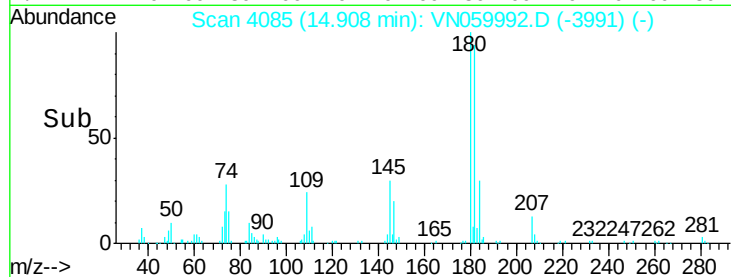
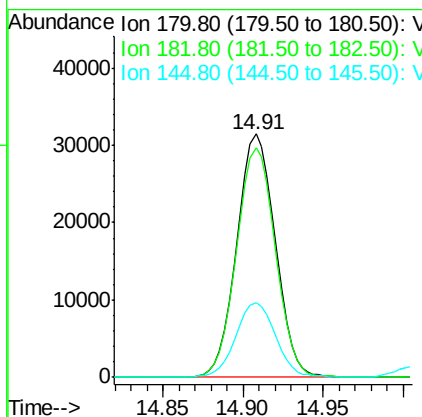
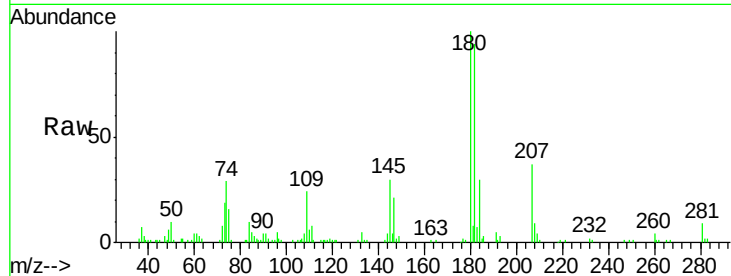
#93
 1,2,4-Trichlorobenzene
 Concen: 20.253 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.9	140.7
145	31.8	15.0	45.1

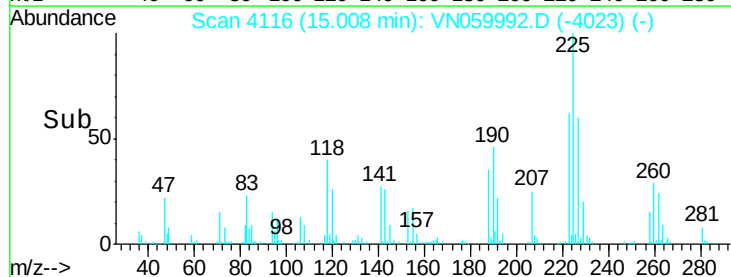
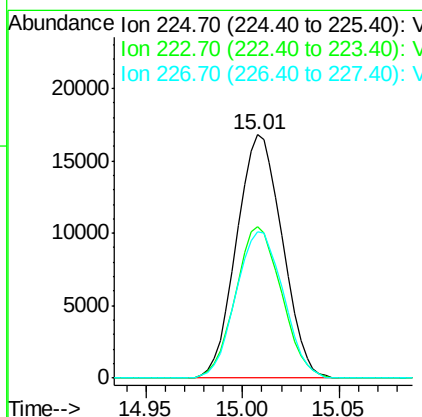
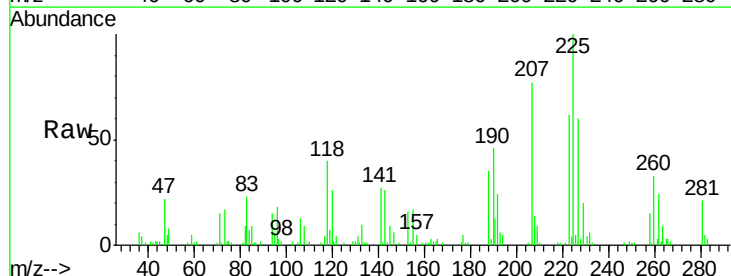
Manual Integrations
 APPROVED

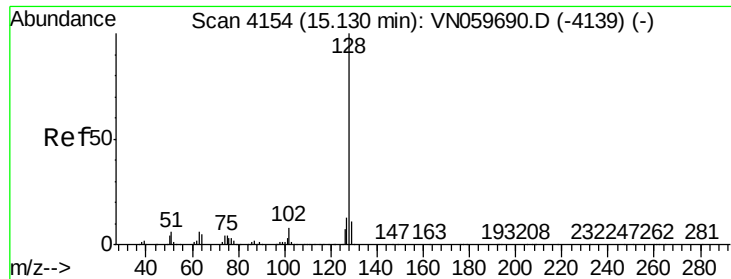
MMDadoda
 2/5/2020 12:21:16 PM



#94
 Hexachlorobutadiene
 Concen: 19.762 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN059992.D
 Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.8	95.3
227	62.1	32.1	96.5





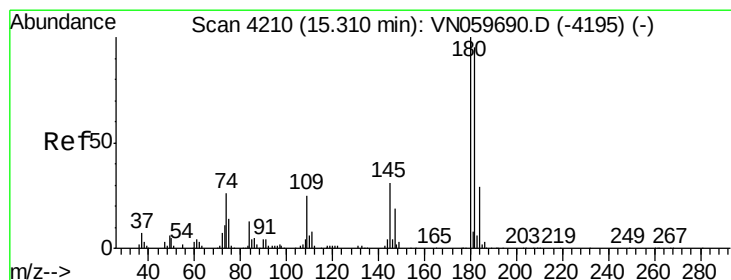
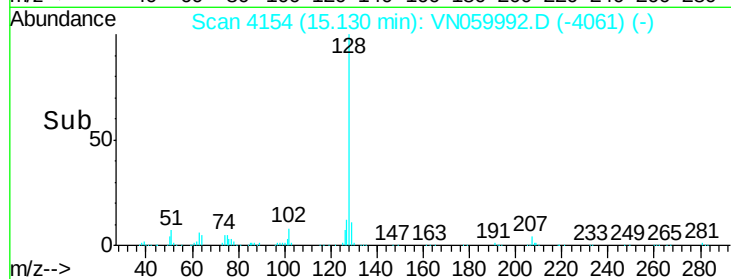
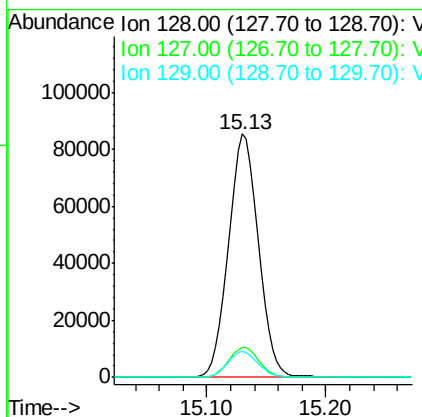
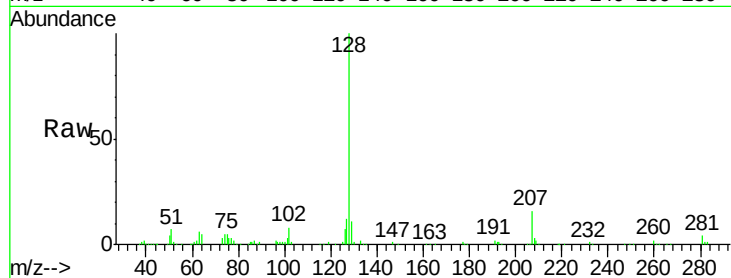
#95
Naphthalene
Concen: 20.617 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0204WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.4	15.6
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
2/5/2020 12:21:16 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.710 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN059992.D
Acq: 4 Feb 2020 14:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.4	142.3
145	33.2	16.3	48.9

