

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052820\
 Data File : VN061540.D
 Acq On : 28 May 2020 18:32
 Operator : JC/MD
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 5/29/2020 5:46:48 PM

Quant Time: May 29 01:55:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 01:43:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	355725	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	612124	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	561813	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	270054	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	84418	16.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	32.84%	
35) Dibromofluoromethane	7.55	113	65395	20.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.58%	
50) Toluene-d8	10.06	98	280428	18.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.62%	
62) 4-Bromofluorobenzene	12.38	95	97814	17.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	35.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	78366	25.104	ug/l	98
3) Chloromethane	2.03	50	88035	18.394	ug/l	99
4) Vinyl Chloride	2.16	62	121350	17.967	ug/l	98
5) Bromomethane	2.54	94	70406	18.784	ug/l	98
6) Chloroethane	2.67	64	75939	16.793	ug/l	98
7) Trichlorofluoromethane	2.98	101	151427	18.277	ug/l	99
8) Diethyl Ether	3.37	74	43209	17.876	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.71	101	65516	18.988	ug/l	99
10) Methyl Iodide	3.91	142	90932	20.857	ug/l	98
11) Tert butyl alcohol	4.73	59	53098	89.217	ug/l	100
12) 1,1-Dichloroethene	3.69	96	67506	18.555	ug/l	99
13) Acrolein	3.56	56	16180	38.157	ug/l	97
14) Allyl chloride	4.27	41	90761	15.976	ug/l	96
15) Acrylonitrile	4.93	53	152148	86.151	ug/l	98
16) Acetone	3.78	43	117208	74.354	ug/l	99
17) Carbon Disulfide	4.01	76	161113	18.042	ug/l	97
18) Methyl Acetate	4.27	43	72249	17.796	ug/l	100
19) Methyl tert-butyl Ether	4.99	73	233723	17.264	ug/l	99
20) Methylene Chloride	4.50	84	76667	17.820	ug/l	97
21) trans-1,2-Dichloroethene	4.99	96	75911	18.301	ug/l	95
22) Diisopropyl ether	5.90	45	201589	15.739	ug/l	98
23) Vinyl Acetate	5.84	43	814989	80.037	ug/l	99
24) 1,1-Dichloroethane	5.80	63	126557	16.787	ug/l	99
25) 2-Butanone	6.79	43	186746	79.843	ug/l	99
26) 2,2-Dichloropropane	6.78	77	112627	15.762	ug/l	100
27) cis-1,2-Dichloroethene	6.78	96	89163	18.222	ug/l	99
28) Bromochloromethane	7.15	49	53607	17.195	ug/l	96
29) Tetrahydrofuran	7.17	42	127176	82.106	ug/l	98
30) Chloroform	7.33	83	140608	17.759	ug/l	99
31) Cyclohexane	7.61	56	114693	16.003	ug/l	96
32) 1,1,1-Trichloroethane	7.53	97	128020	17.674	ug/l	99
36) 1,1-Dichloropropene	7.75	75	100476	17.815	ug/l	99
37) Ethyl Acetate	6.89	43	85386	16.729	ug/l	98
38) Carbon Tetrachloride	7.73	117	95944	18.388	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052820\
 Data File : VN061540.D
 Acq On : 28 May 2020 18:32
 Operator : JC/MD
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 5/29/2020 5:46:48 PM

Quant Time: May 29 01:55:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 01:43:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.05	83	125927	18.238	ug/l	95
40) Benzene	8.00	78	307274	18.047	ug/l	98
41) Methacrylonitrile	7.13	41	39299	18.727	ug/l #	82
42) 1,2-Dichloroethane	8.09	62	103077	16.981	ug/l	99
43) Isopropyl Acetate	8.13	43	142258	16.104	ug/l #	92
44) Trichloroethene	8.80	130	95794	20.800	ug/l	96
45) 1,2-Dichloropropane	9.08	63	72955	17.245	ug/l	97
46) Dibromomethane	9.17	93	55799	18.548	ug/l	97
47) Bromodichloromethane	9.37	83	111778	17.822	ug/l	97
48) Methyl methacrylate	9.17	41	62272	15.352	ug/l	98
49) 1,4-Dioxane	9.17	88	18732	368.803	ug/l	99
51) 4-Methyl-2-Pentanone	9.95	43	410553	85.176	ug/l	99
52) Toluene	10.13	92	201846	18.401	ug/l	99
53) t-1,3-Dichloropropene	10.35	75	118438	17.310	ug/l	98
54) cis-1,3-Dichloropropene	9.81	75	127911	17.490	ug/l	100
55) 1,1,2-Trichloroethane	10.54	97	79218	19.033	ug/l	99
56) Ethyl methacrylate	10.40	69	109828	17.087	ug/l	97
57) 1,3-Dichloropropane	10.68	76	129629	18.200	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.66	63	247879	87.920	ug/l	100
59) 2-Hexanone	10.72	43	289273	82.999	ug/l	100
60) Dibromochloromethane	10.88	129	89674	19.323	ug/l	99
61) 1,2-Dibromoethane	10.98	107	83173	18.954	ug/l	100
64) Tetrachloroethene	10.60	164	96226	21.466	ug/l	98
65) Chlorobenzene	11.41	112	218651	19.140	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.48	131	79281	19.237	ug/l	99
67) Ethyl Benzene	11.49	91	381997	18.542	ug/l	100
68) m/p-Xylenes	11.60	106	299691	38.062	ug/l	100
69) o-Xylene	11.92	106	143698	18.856	ug/l	99
70) Styrene	11.94	104	237666	18.869	ug/l	99
71) Bromoform	12.10	173	58931	19.994	ug/l #	98
73) Isopropylbenzene	12.22	105	376957	17.763	ug/l	100
74) N-amyl acetate	12.05	43	119159	15.592	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.48	83	103526	17.717	ug/l	98
76) 1,2,3-Trichloropropane	12.53	75	90330m	16.067	ug/l	
77) Bromobenzene	12.50	156	91170	19.272	ug/l	93
78) n-propylbenzene	12.57	91	417459	17.367	ug/l	99
79) 2-Chlorotoluene	12.65	91	243946	17.107	ug/l	100
80) 1,3,5-Trimethylbenzene	12.71	105	315238	18.127	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.27	75	35340	16.543	ug/l	98
82) 4-Chlorotoluene	12.75	91	255551	17.312	ug/l	98
83) tert-Butylbenzene	12.97	119	272261	18.224	ug/l	99
84) 1,2,4-Trimethylbenzene	13.01	105	313083	17.992	ug/l	100
85) sec-Butylbenzene	13.15	105	354335	17.659	ug/l	99
86) p-Isopropyltoluene	13.26	119	326579	18.219	ug/l	99
87) 1,3-Dichlorobenzene	13.26	146	165473	19.268	ug/l	99
88) 1,4-Dichlorobenzene	13.34	146	167691	19.503	ug/l	98
89) n-Butylbenzene	13.59	91	271168	16.871	ug/l	99
90) Hexachloroethane	13.85	117	33619	14.384	ug/l	100
91) 1,2-Dichlorobenzene	13.63	146	160344	19.461	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.25	75	21129	17.897	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052820\
Data File : VN061540.D
Acq On : 28 May 2020 18:32
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM

Quant Time: May 29 01:55:58 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
Quant Title : SW846 8260
QLast Update : Fri May 29 01:43:07 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.89	180	92093	20.424	ug/l	98
94) Hexachlorobutadiene	14.99	225	36628	18.461	ug/l	98
95) Naphthalene	15.10	128	288441	20.185	ug/l	100
96) 1,2,3-Trichlorobenzene	15.28	180	91721	20.365	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 355725

Ion Ratio Lower Upper

168 100

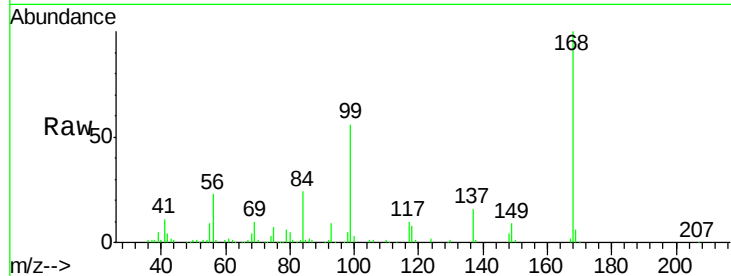
99 55.6 45.0 67.4

Manual Integrations

APPROVED

MMDadoda

5/29/2020 5:46:48 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

150000

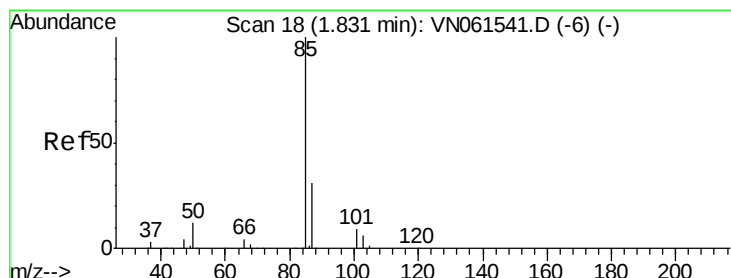
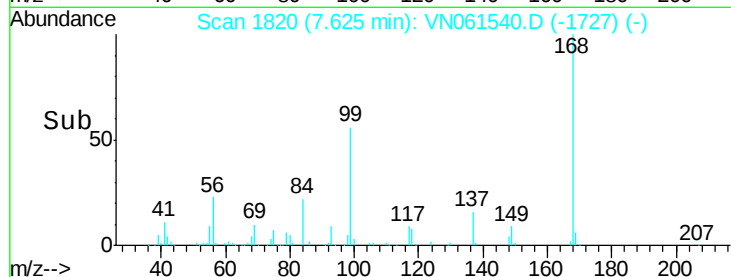
100000

50000

0

7.50 7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 25.104 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061540.D

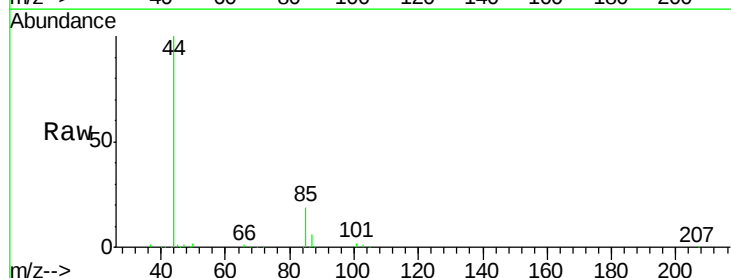
Acq: 28 May 2020 18:32

Tgt Ion: 85 Resp: 78366

Ion Ratio Lower Upper

85 100

87 32.6 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

60000

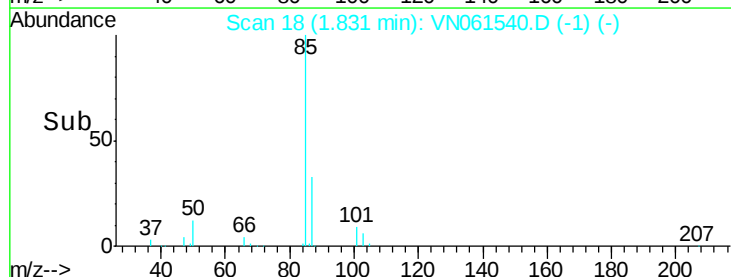
40000

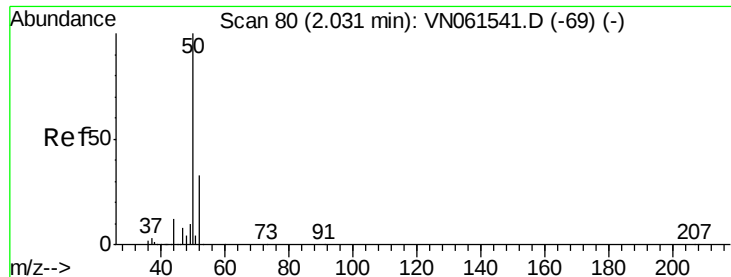
20000

0

1.75 1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 18.394 ug/l

RT: 2.03 min Scan# 80

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 88035

Ion Ratio Lower Upper

50 100

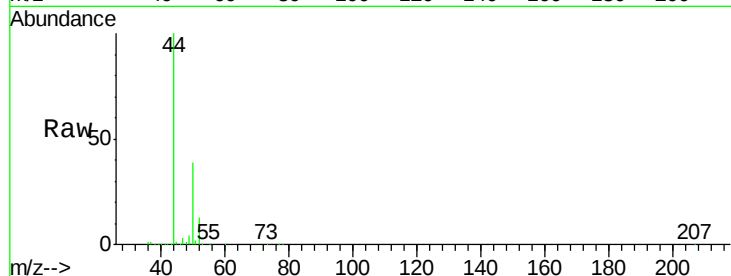
52 34.0 26.7 40.1

Manual Integrations

APPROVED

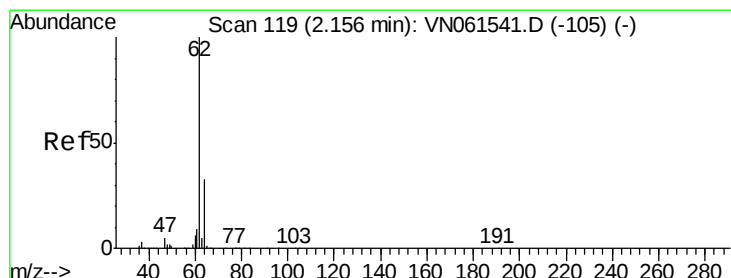
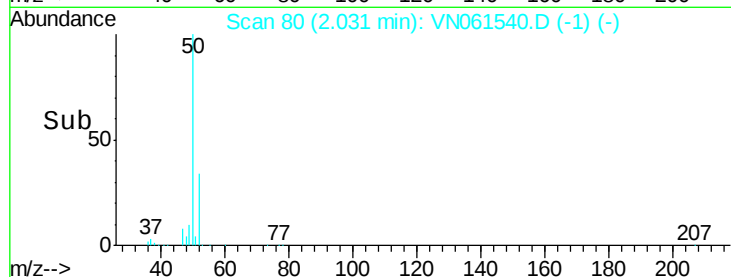
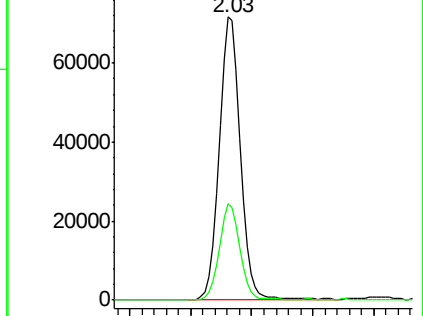
MMDadoda

5/29/2020 5:46:48 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 17.967 ug/l

RT: 2.16 min Scan# 119

Delta R.T. 0.00 min

Lab File: VN061540.D

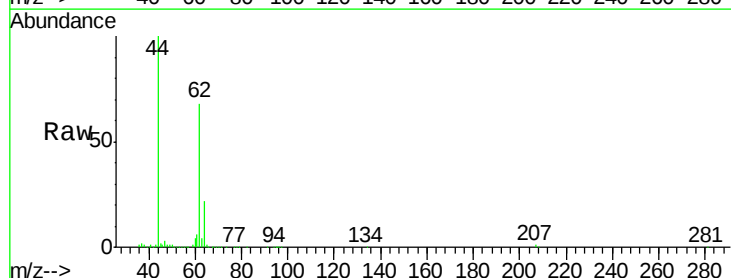
Acq: 28 May 2020 18:32

Tgt Ion: 62 Resp: 121350

Ion Ratio Lower Upper

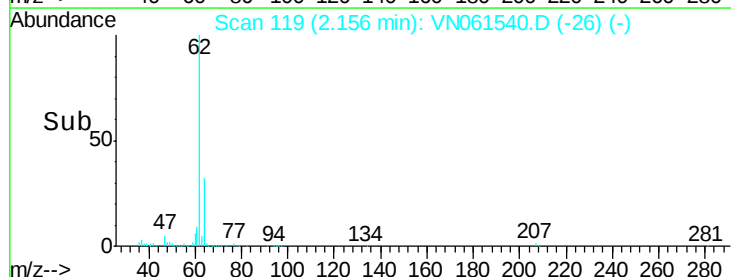
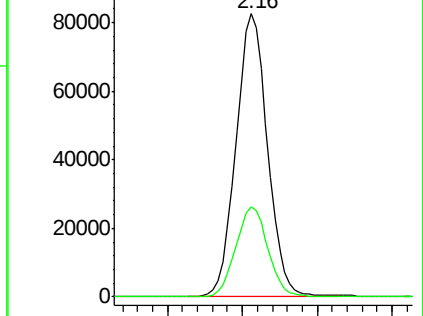
62 100

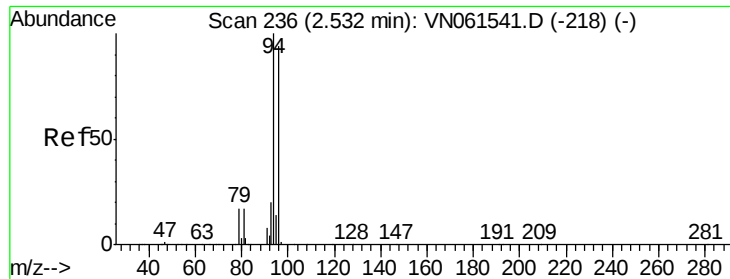
64 31.8 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 18.784 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 70406

Ion Ratio Lower Upper

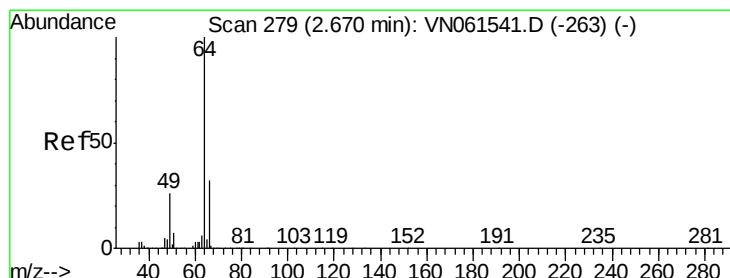
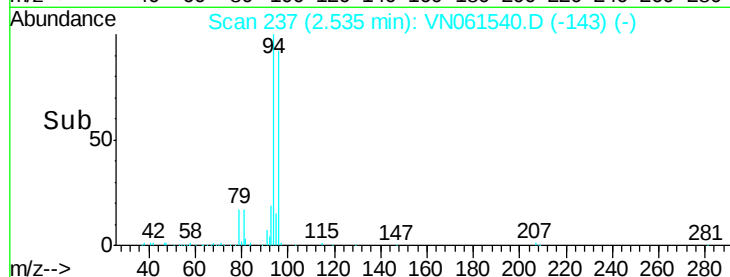
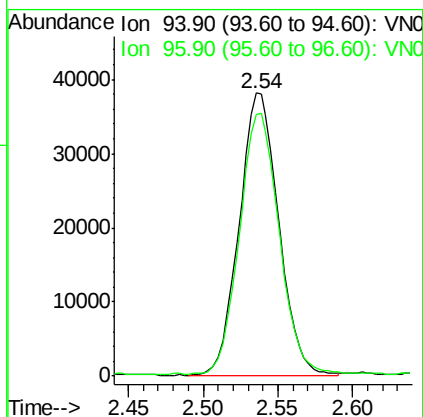
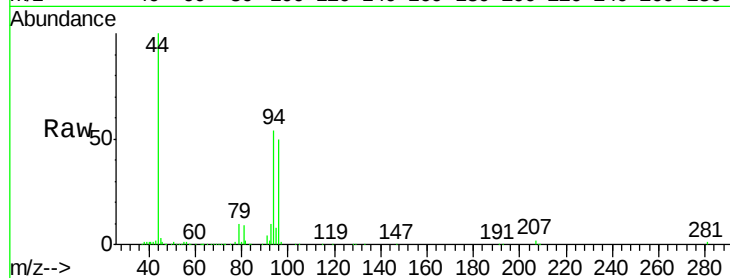
94 100

96 91.6 74.8 112.2

Manual Integrations
APPROVED

MMDadoda

5/29/2020 5:46:48 PM



#6

Chloroethane

Concen: 16.793 ug/l

RT: 2.67 min Scan# 279

Delta R.T. 0.00 min

Lab File: VN061540.D

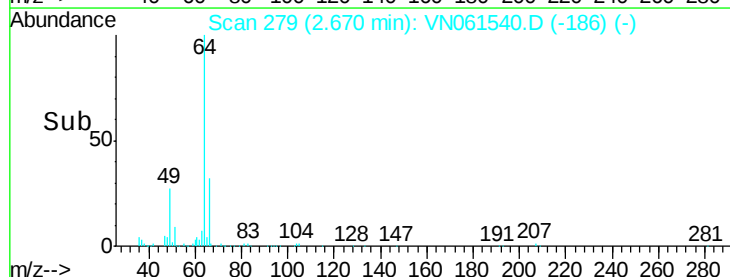
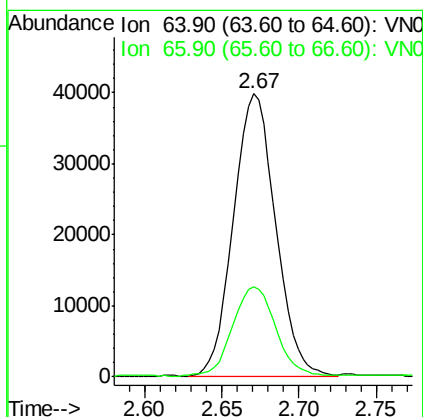
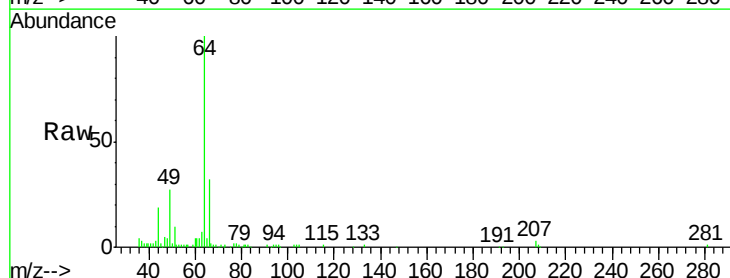
Acq: 28 May 2020 18:32

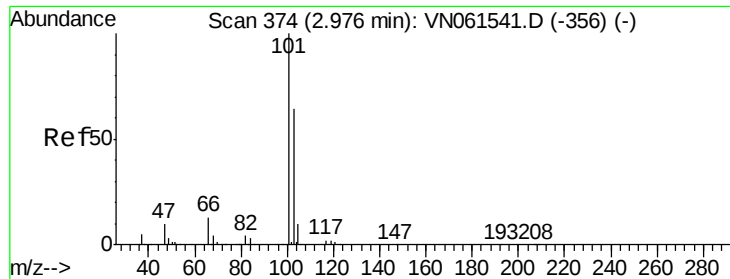
Tgt Ion: 64 Resp: 75939

Ion Ratio Lower Upper

64 100

66 31.1 25.6 38.4





#7

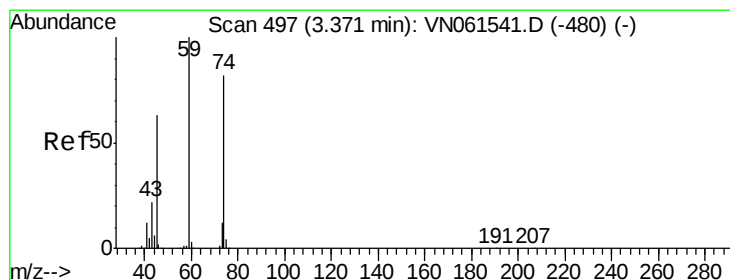
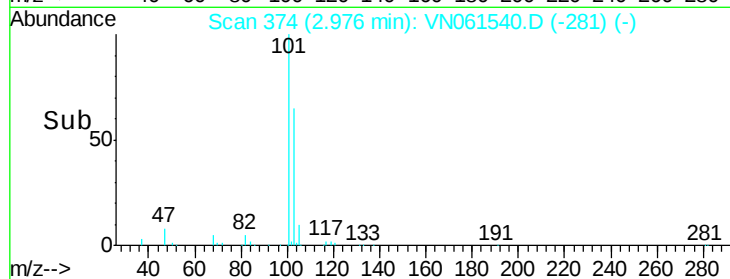
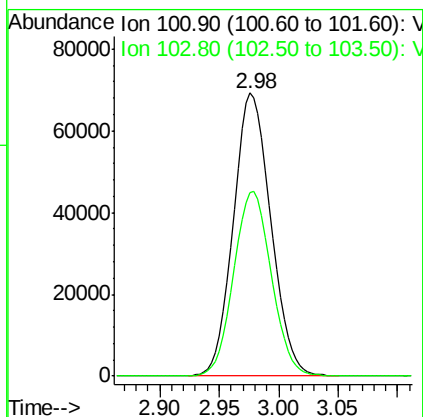
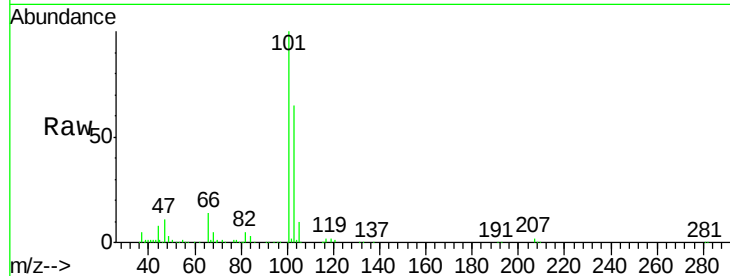
Trichlorofluoromethane
Concen: 18.277 ug/l
RT: 2.98 min Scan# 374
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.4	77.2

Manual Integrations
APPROVED

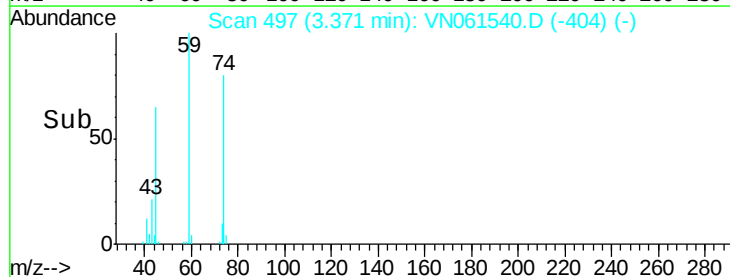
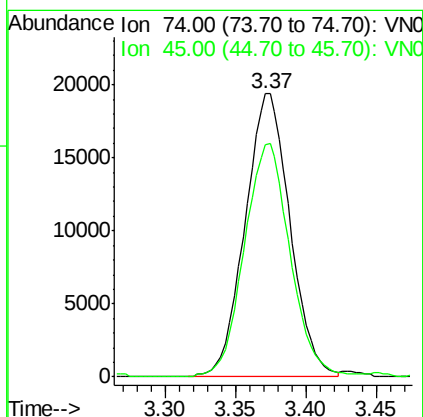
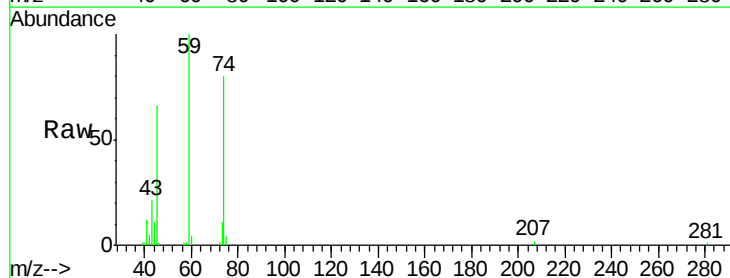
MMDadoda
5/29/2020 5:46:48 PM

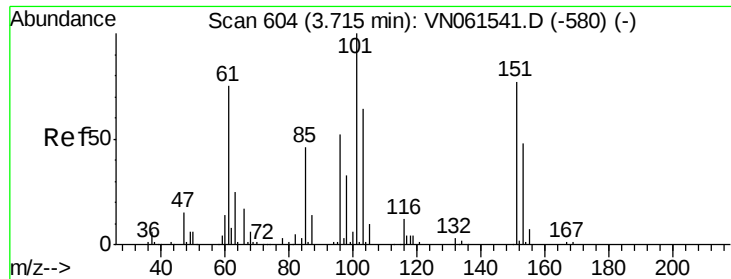


#8

Diethyl Ether
Concen: 17.876 ug/l
RT: 3.37 min Scan# 497
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
74	100		
45	84.2	39.9	119.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.988 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

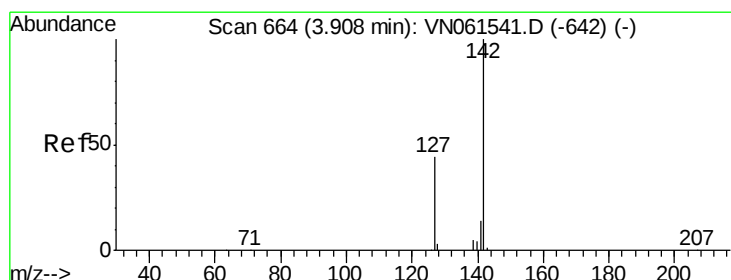
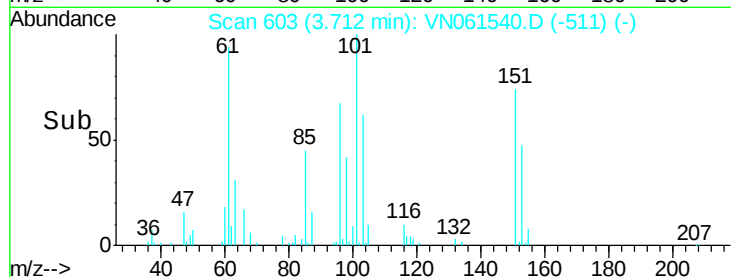
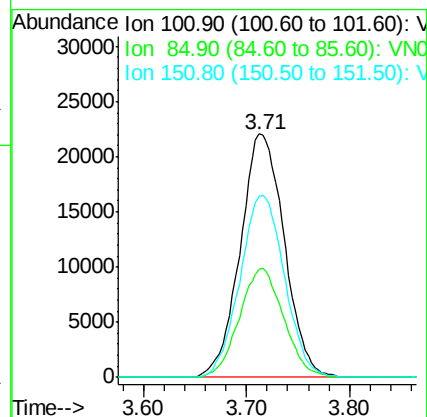
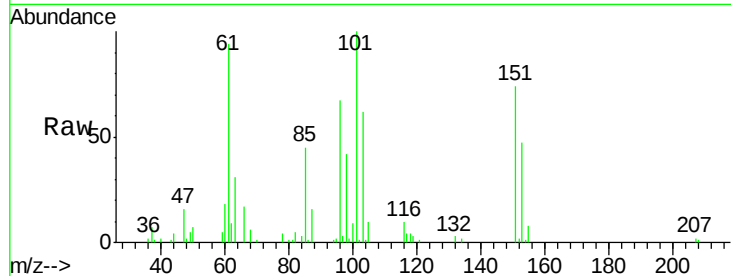
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	65516
Ion Ratio	Lower	Upper	
101	100		
85	44.9	35.2	52.8
151	75.5	61.0	91.6

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#10

Methyl Iodide

Concen: 20.857 ug/l

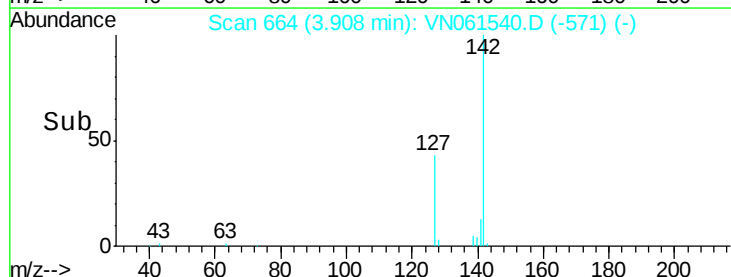
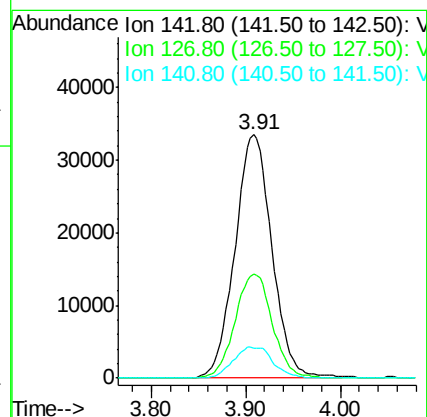
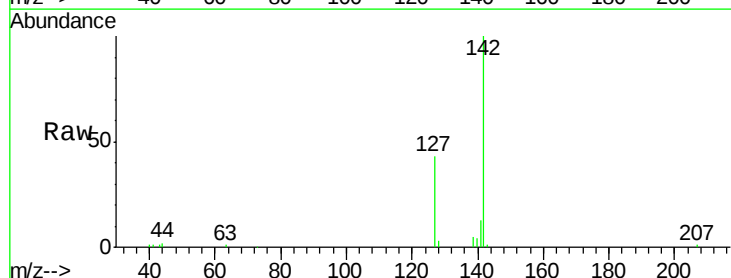
RT: 3.91 min Scan# 664

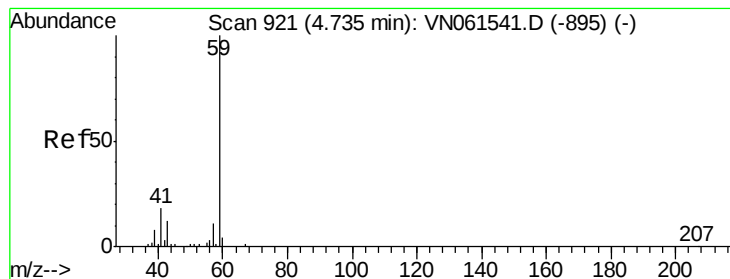
Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	142	Resp:	90932
Ion Ratio	Lower	Upper	
142	100		
127	43.0	35.5	53.3
141	13.6	11.5	17.3





#11

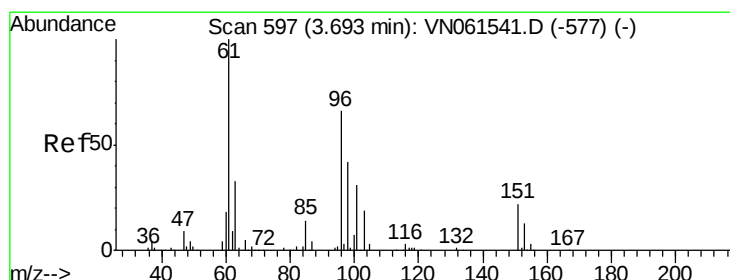
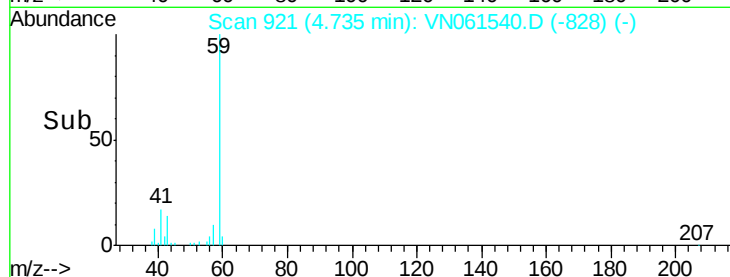
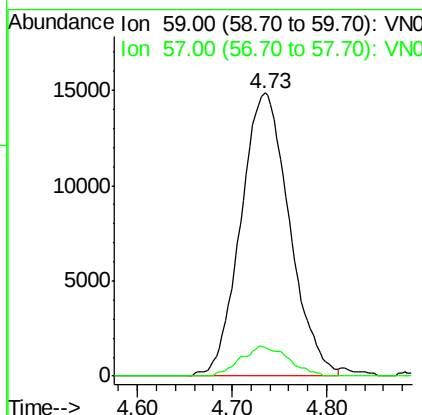
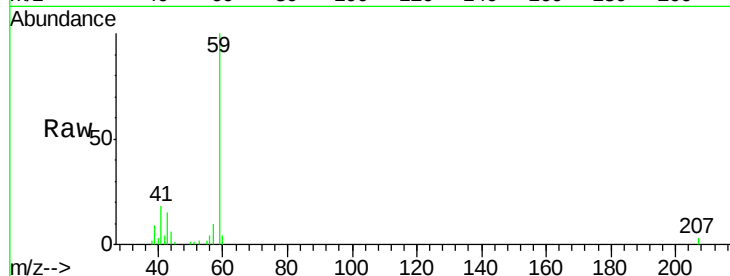
Tert butyl alcohol
 Concen: 89.217 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.4	12.6

Manual Integrations
 APPROVED

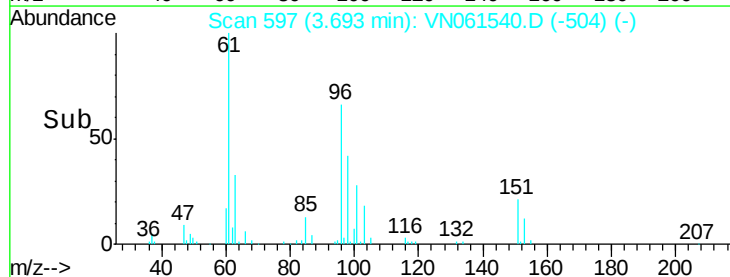
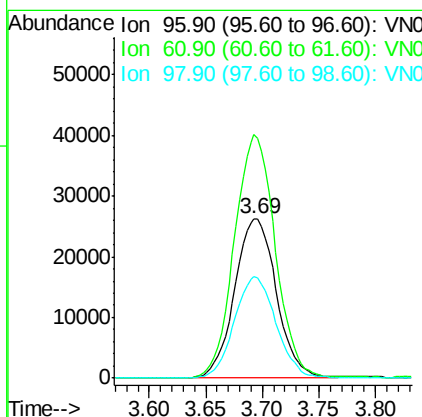
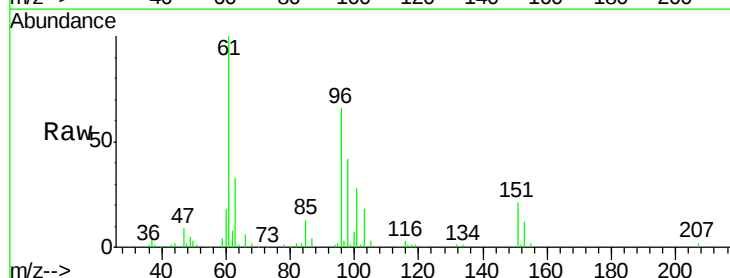
MMDadoda
 5/29/2020 5:46:48 PM

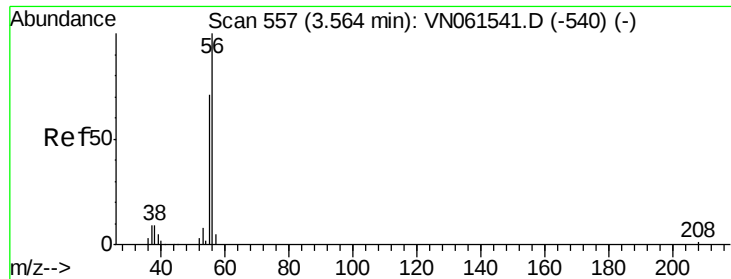


#12

1,1-Dichloroethene
 Concen: 18.555 ug/l
 RT: 3.69 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.4	120.5	180.7
98	63.9	50.8	76.2





#13

Acrolein

Concen: 38.157 ug/l

RT: 3.56 min Scan# 557

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 16180

Ion Ratio Lower Upper

56 100

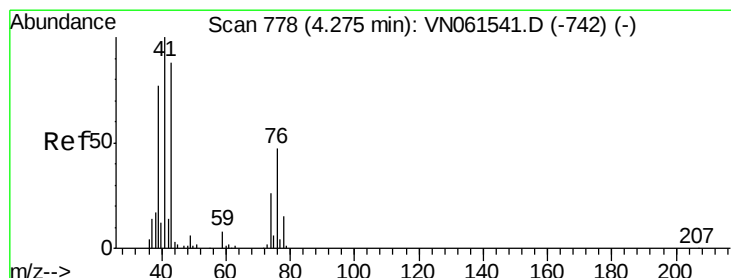
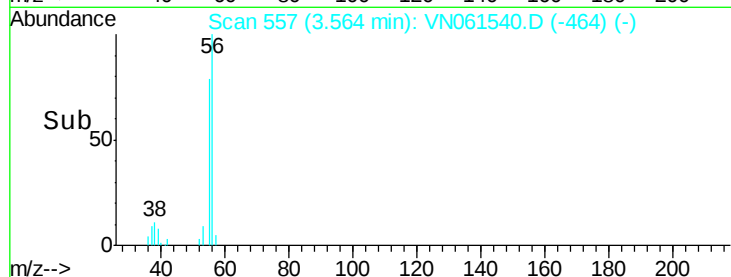
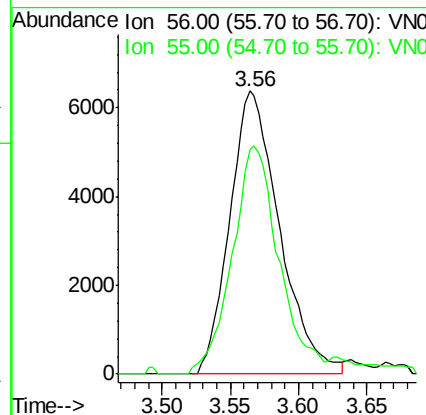
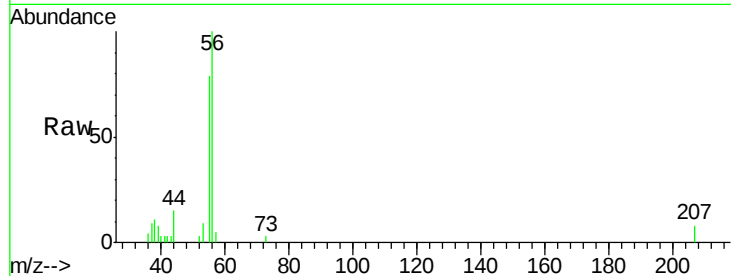
55 75.3 58.0 87.0

Manual Integrations

APPROVED

MMDadoda

5/29/2020 5:46:48 PM



#14

Allyl chloride

Concen: 15.976 ug/l

RT: 4.27 min Scan# 777

Delta R.T. -0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

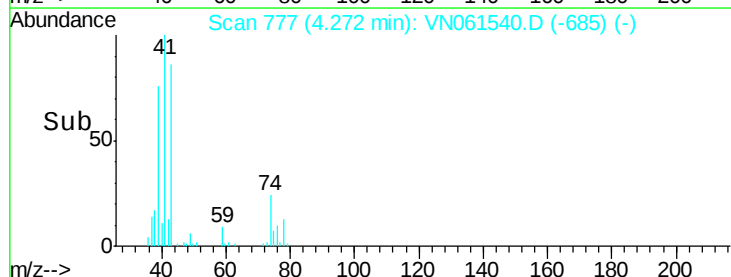
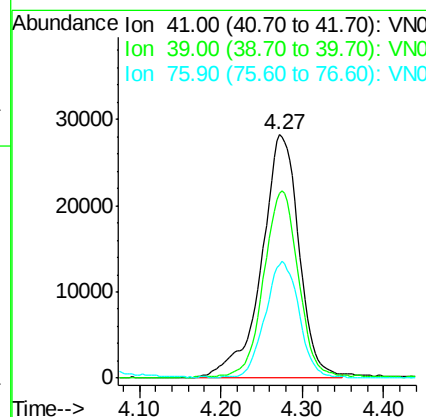
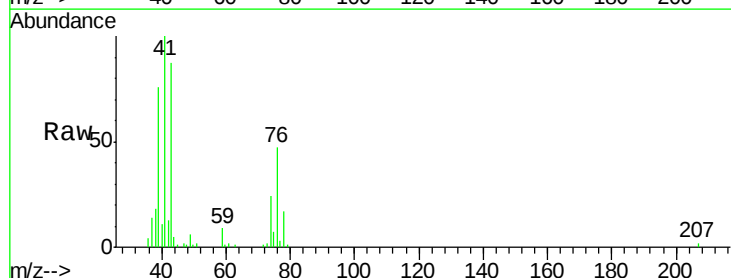
Tgt Ion: 41 Resp: 90761

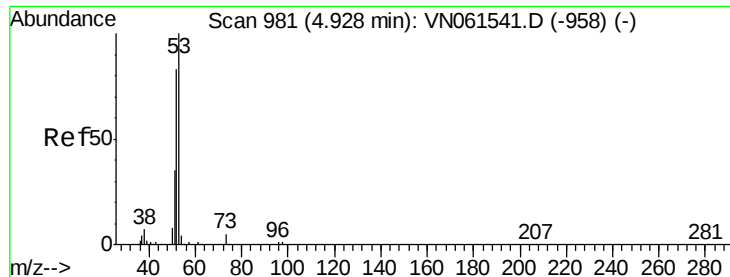
Ion Ratio Lower Upper

41 100

39 68.9 58.6 88.0

76 43.2 34.2 51.4





#15

Acrylonitrile

Concen: 86.151 ug/l

RT: 4.93 min Scan# 982

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

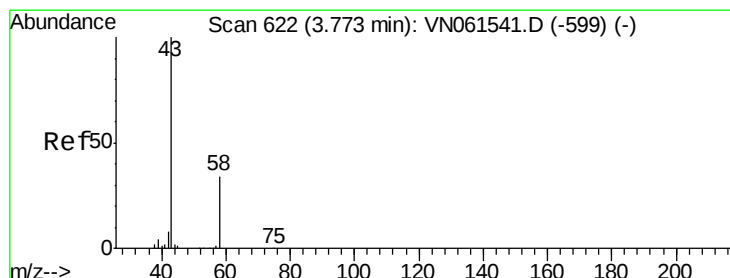
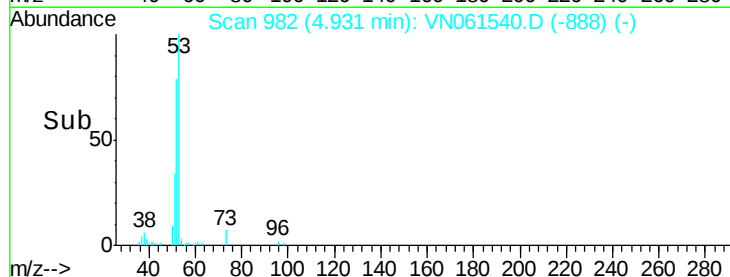
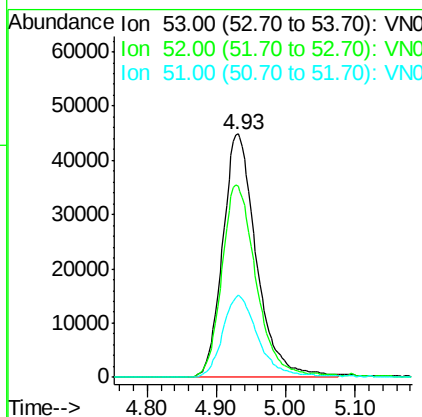
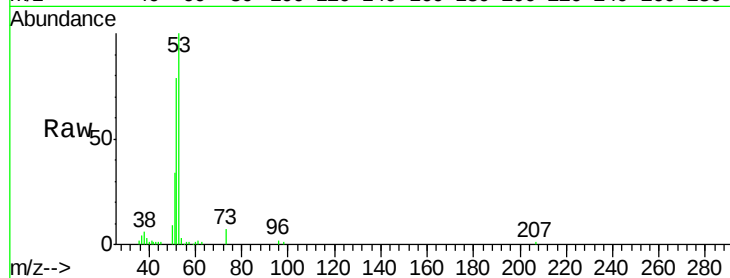
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	152148
Ion	Ratio	Lower	Upper
53	100		
52	79.9	65.4	98.2
51	35.3	29.0	43.6

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#16

Acetone

Concen: 74.354 ug/l

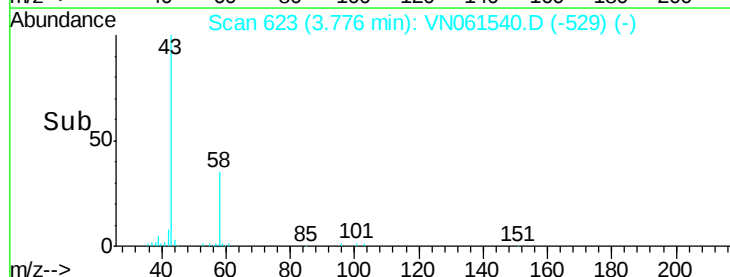
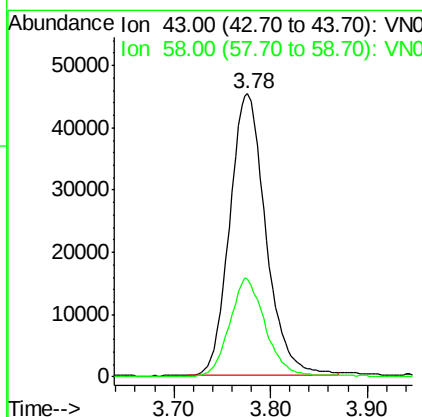
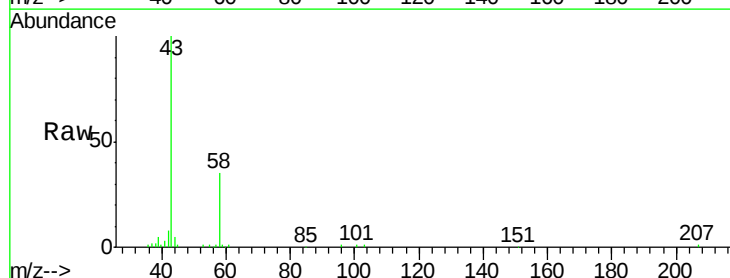
RT: 3.78 min Scan# 623

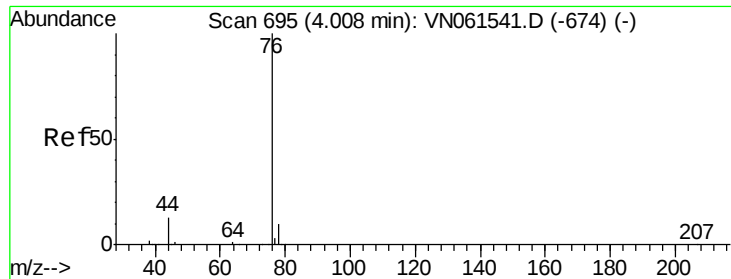
Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	43	Resp:	117208
Ion	Ratio	Lower	Upper
43	100		
58	34.7	27.2	40.8





#17

Carbon Disulfide

Concen: 18.042 ug/l

RT: 4.01 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 161113

Ion Ratio Lower Upper

76 100

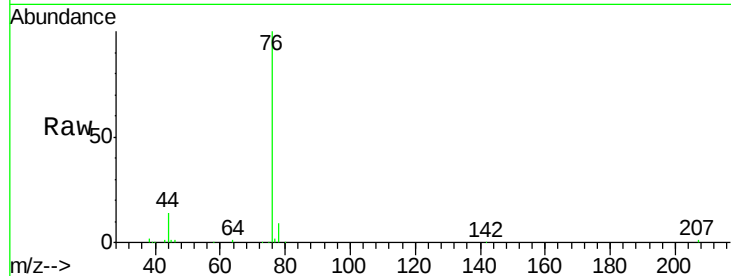
78 8.6 7.8 11.6

Manual Integrations

APPROVED

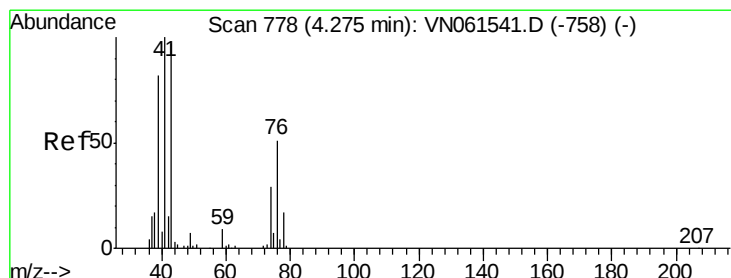
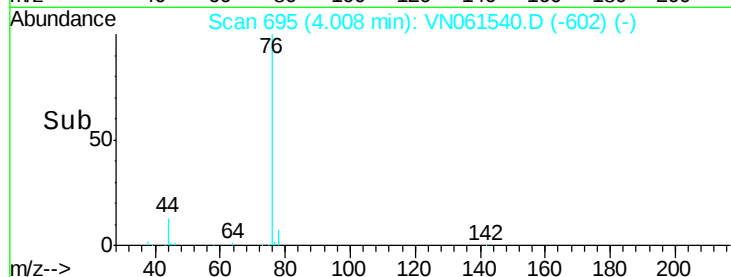
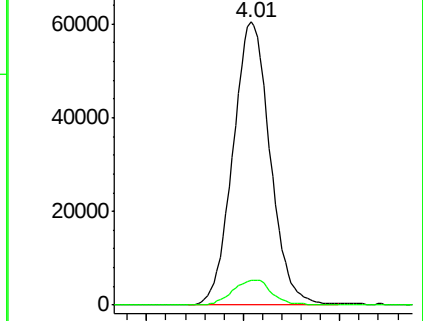
MMDadoda

5/29/2020 5:46:48 PM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 17.796 ug/l

RT: 4.27 min Scan# 778

Delta R.T. 0.00 min

Lab File: VN061540.D

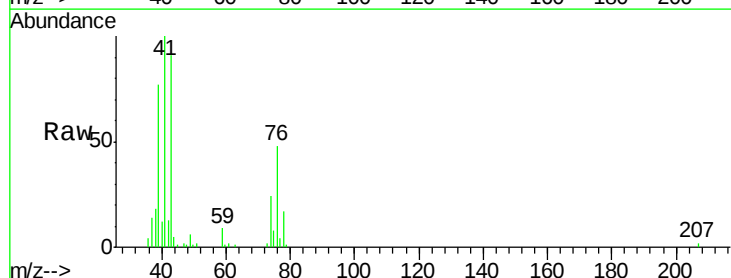
Acq: 28 May 2020 18:32

Tgt Ion: 43 Resp: 72249

Ion Ratio Lower Upper

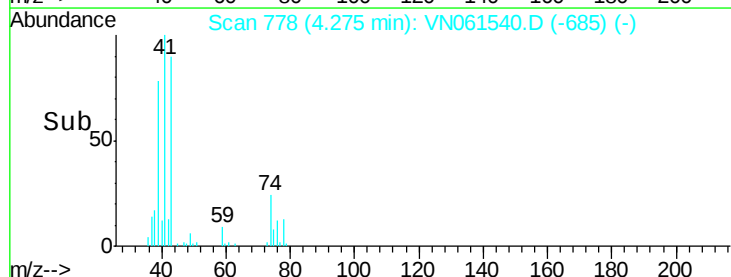
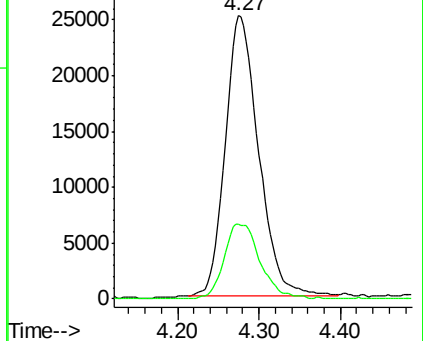
43 100

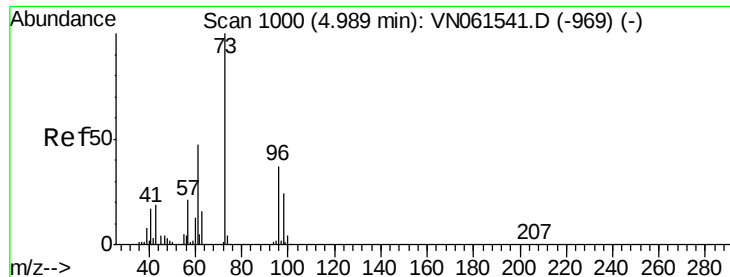
74 28.8 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





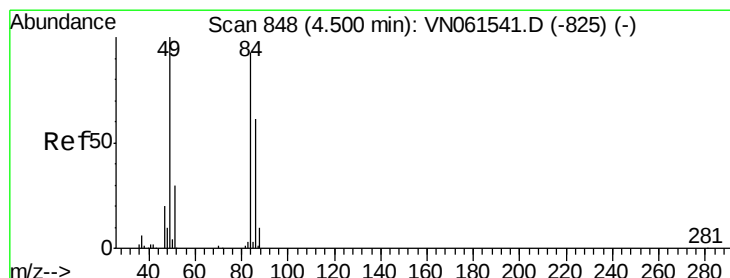
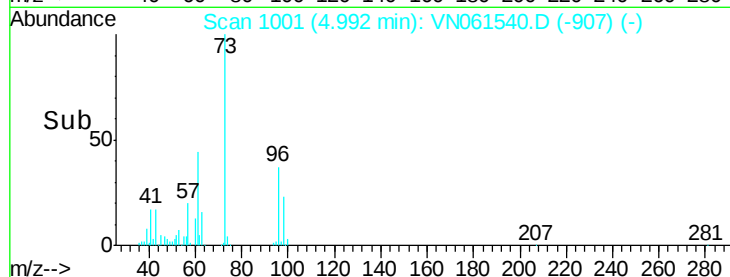
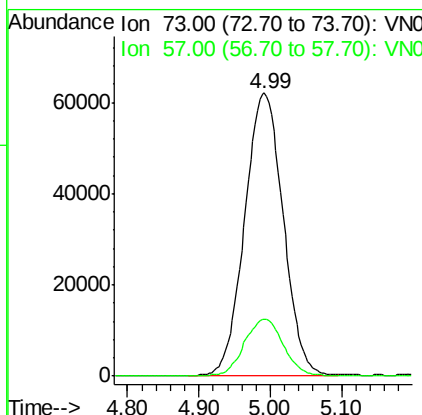
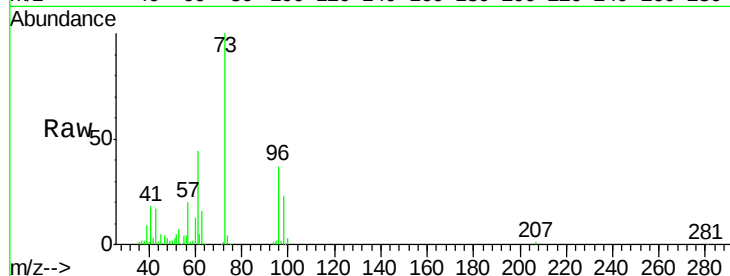
#19
Methyl tert-butyl Ether
Concen: 17.264 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 233723
Ion Ratio Lower Upper
73 100
57 20.3 16.4 24.6

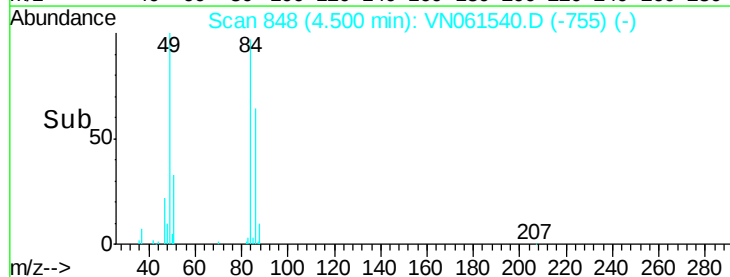
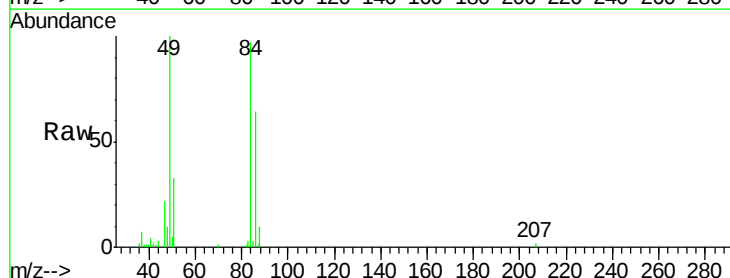
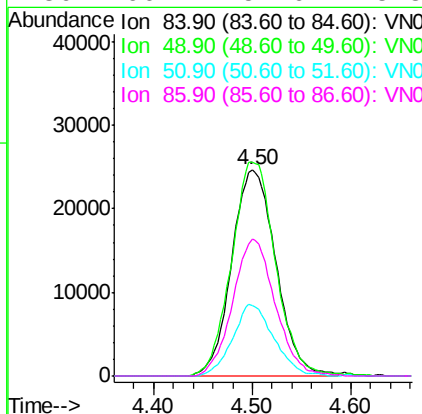
Manual Integrations
APPROVED

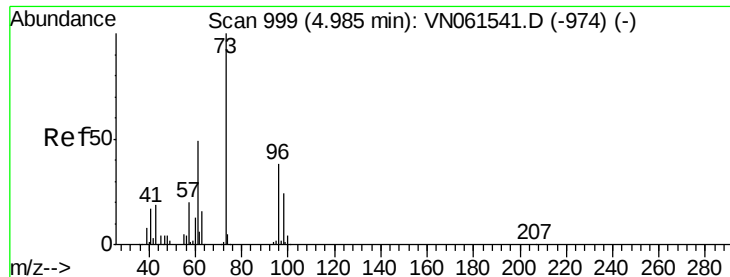
MMDadoda
5/29/2020 5:46:48 PM



#20
Methylene Chloride
Concen: 17.820 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion: 84 Resp: 76667
Ion Ratio Lower Upper
84 100
49 103.6 85.8 128.8
51 34.4 26.2 39.2
86 66.2 52.6 78.8





#21

trans-1,2-Dichloroethene

Concen: 18.301 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

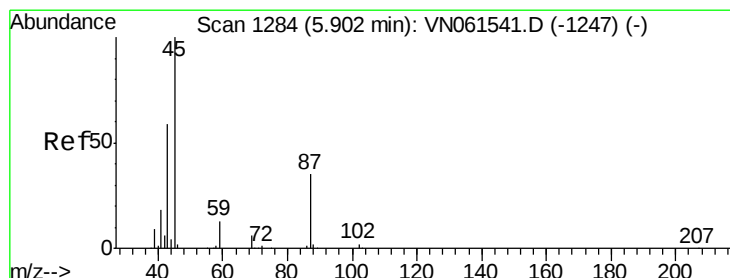
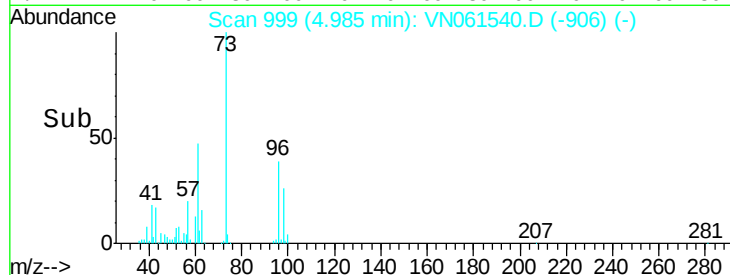
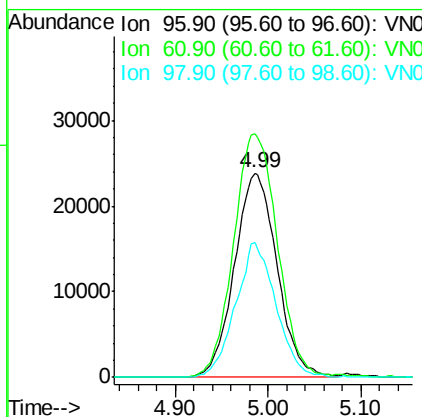
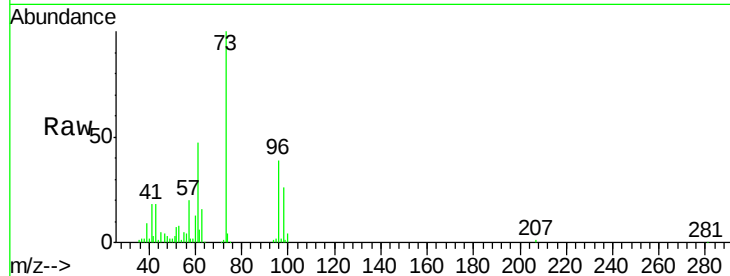
ClientSampled :

VSTDIC020

Tot Ion:	96	Resp:	75911
Ion	Ratio	Lower	Upper
96	100		
61	119.1	101.4	152.0
98	65.7	50.6	76.0

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#22

Diisopropyl ether

Concen: 15.739 ug/l

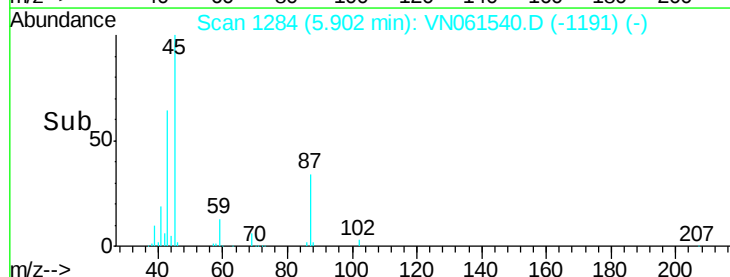
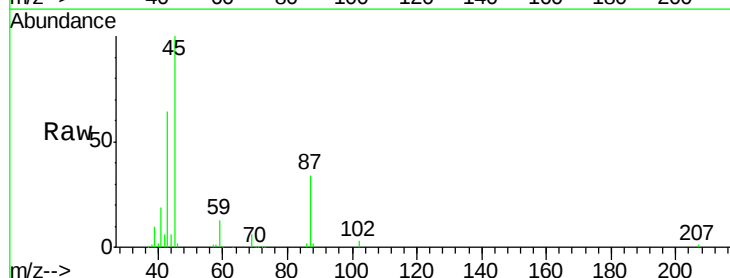
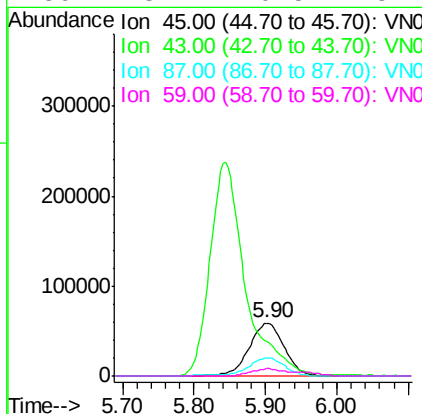
RT: 5.90 min Scan# 1284

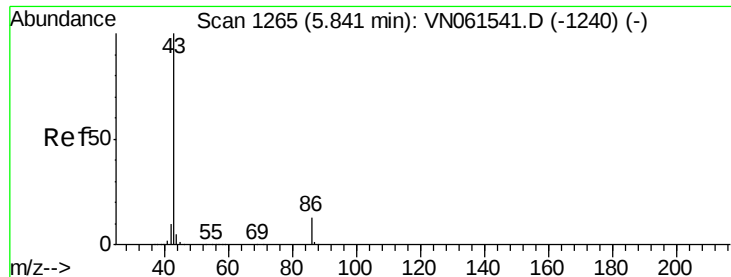
Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	45	Resp:	201589
Ion	Ratio	Lower	Upper
45	100		
43	61.9	47.9	71.9
87	34.0	28.4	42.6
59	13.1	10.5	15.7





#23

Vinyl Acetate

Concen: 80.037 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleID :

VSTDIC020

Tot Ion: 43 Resp: 814989

Ion Ratio Lower Upper

43 100

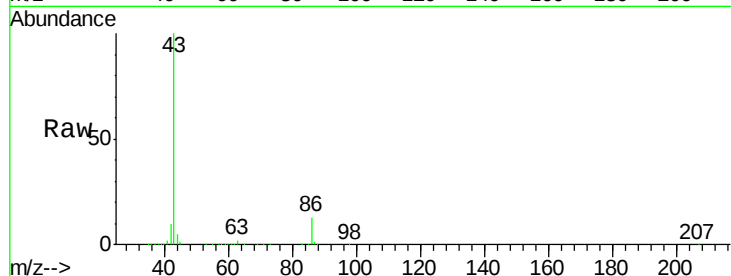
86 13.0 10.6 16.0

Manual Integrations

APPROVED

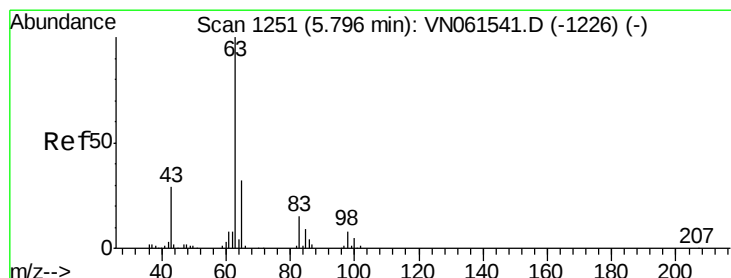
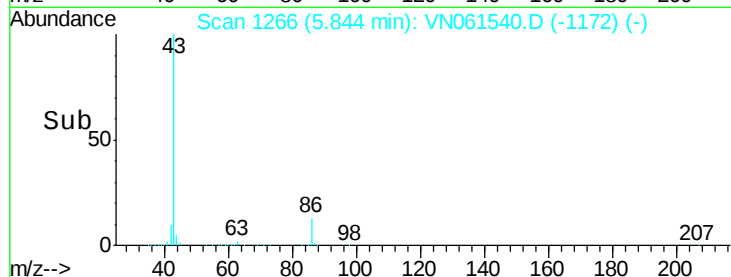
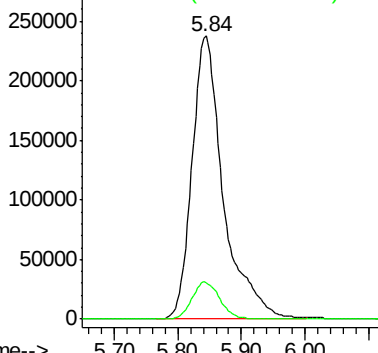
MMDadoda

5/29/2020 5:46:48 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: 16.787 ug/l

RT: 5.80 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

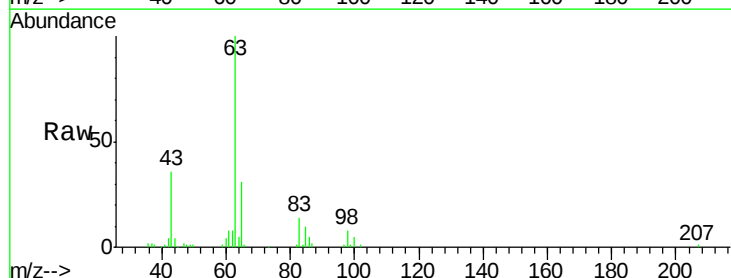
Tgt Ion: 63 Resp: 126557

Ion Ratio Lower Upper

63 100

98 8.1 3.8 11.4

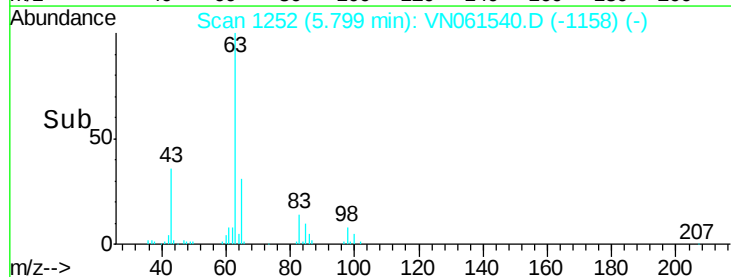
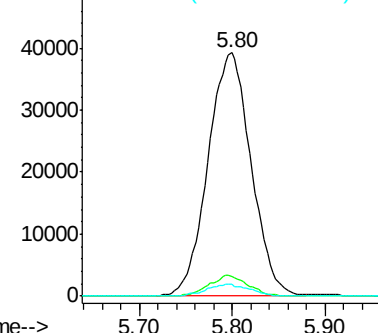
100 4.7 2.5 7.6

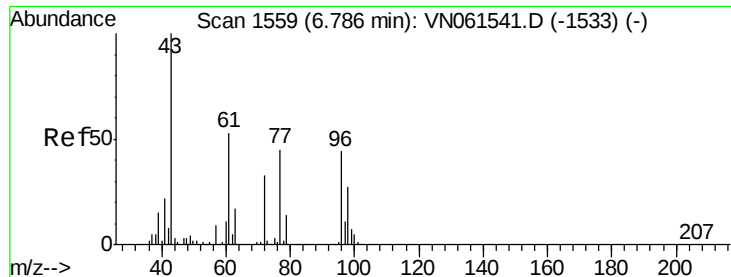


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





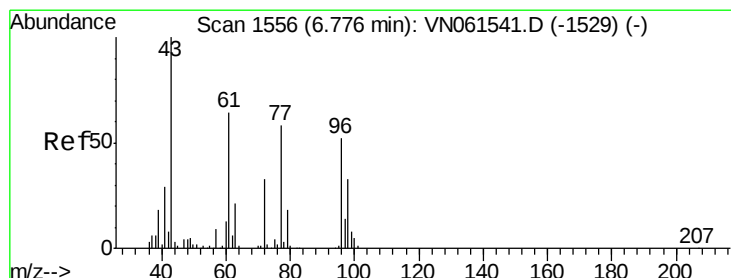
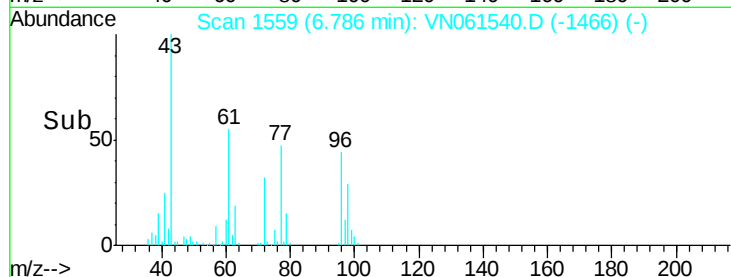
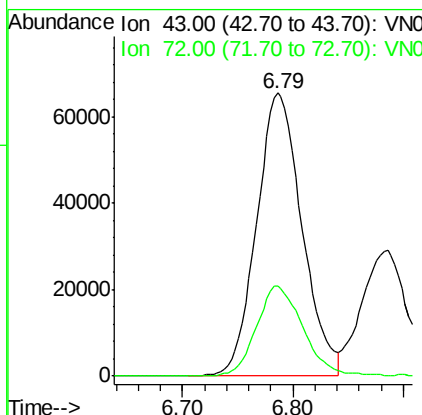
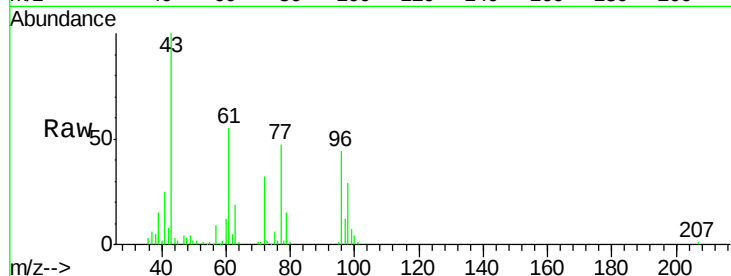
#25
 2-Butanone
 Concen: 79.843 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion: 43 Resp: 186746
 Ion Ratio Lower Upper
 43 100
 72 32.0 26.0 39.0

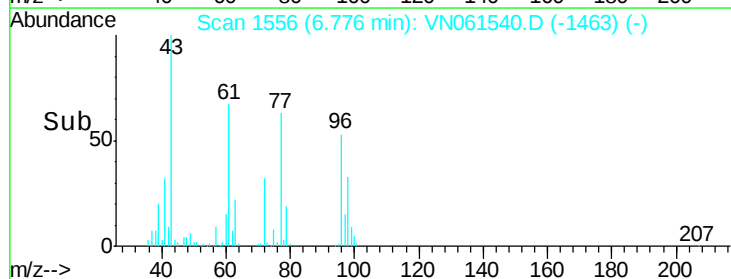
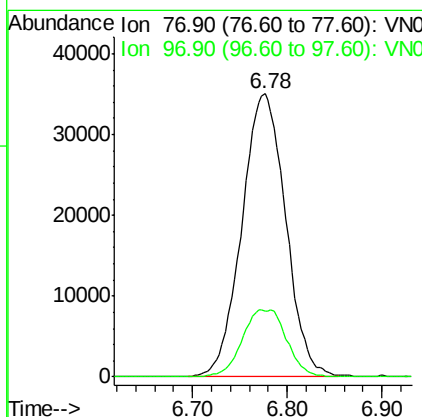
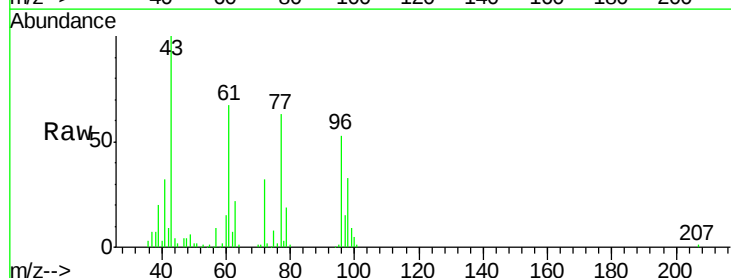
Manual Integrations
 APPROVED

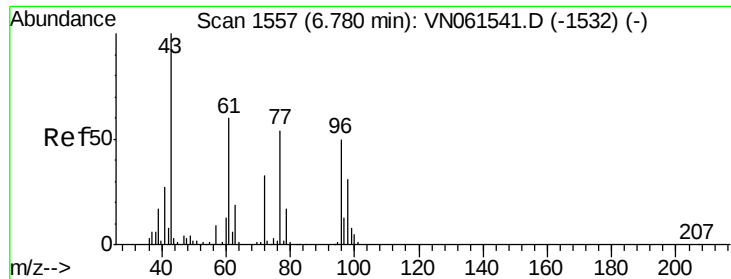
MMDadoda
 5/29/2020 5:46:48 PM



#26
 2,2-Dichloropropane
 Concen: 15.762 ug/l
 RT: 6.78 min Scan# 1556
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion: 77 Resp: 112627
 Ion Ratio Lower Upper
 77 100
 97 24.0 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 18.222 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

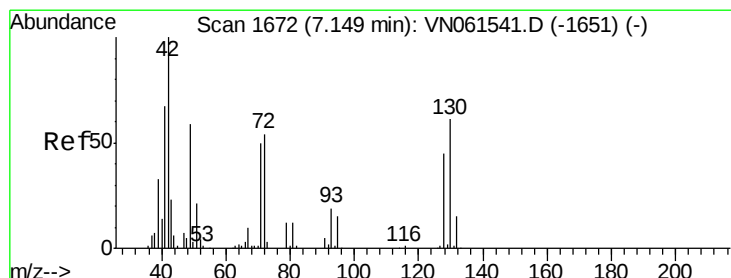
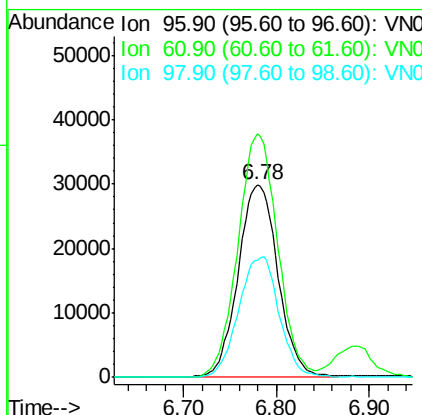
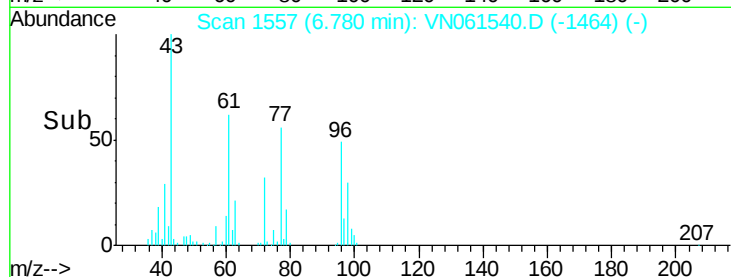
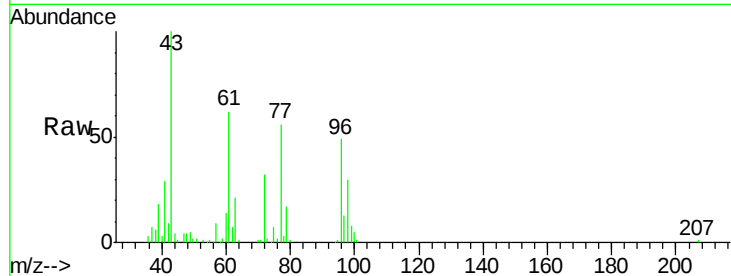
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	89163
Ion	Ratio	Lower	Upper
96	100		
61	126.0	0.0	252.2
98	63.4	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#28

Bromochloromethane

Concen: 17.195 ug/l

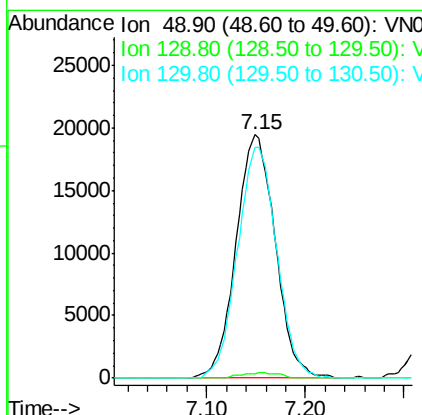
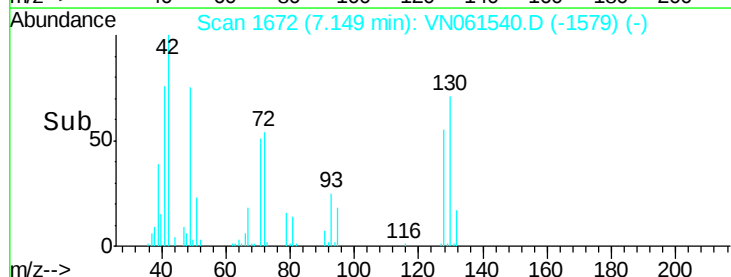
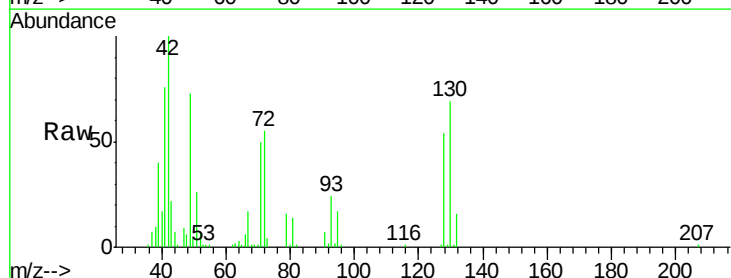
RT: 7.15 min Scan# 1672

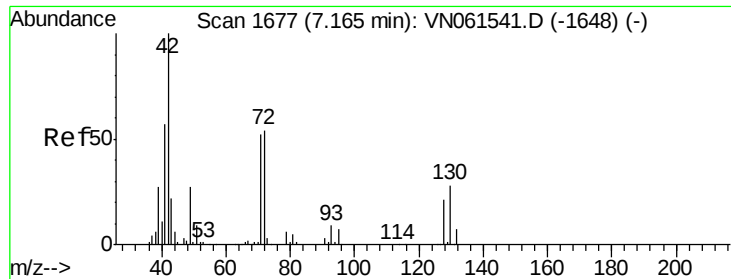
Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	49	Resp:	53607
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.8
130	94.7	78.8	118.2





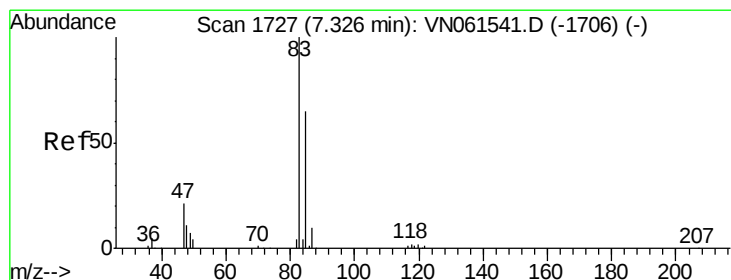
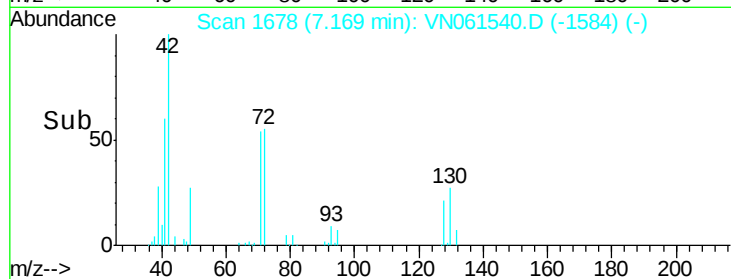
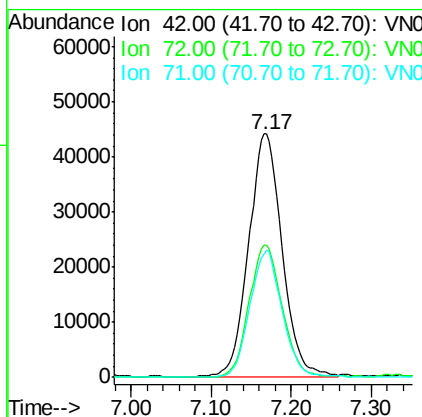
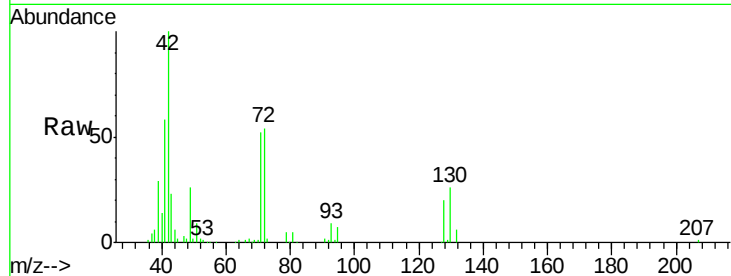
#29
Tetrahydrofuran
Concen: 82.106 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	53.6	43.6	65.4
71	49.7	41.2	61.8

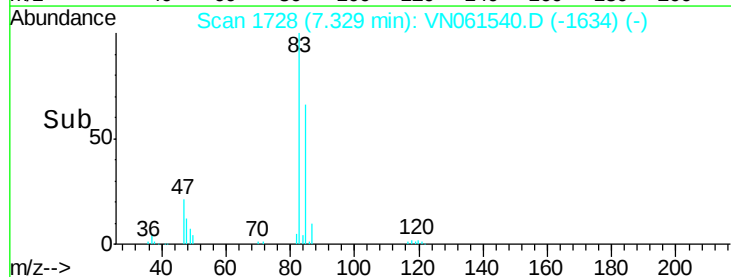
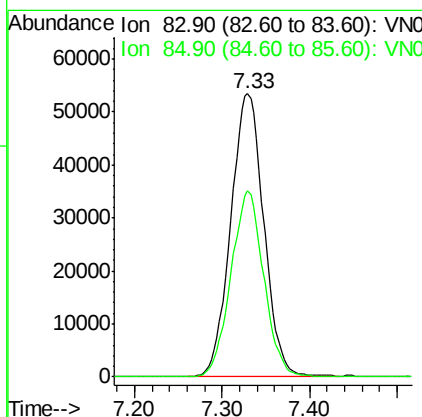
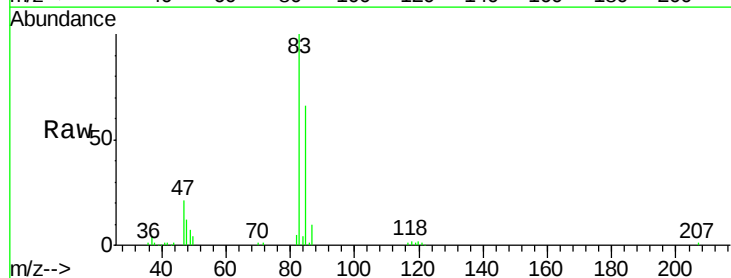
Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#30
Chloroform
Concen: 17.759 ug/l
RT: 7.33 min Scan# 1728
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.7	77.5





#31

Cyclohexane

Concen: 16.003 ug/l

RT: 7.61 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

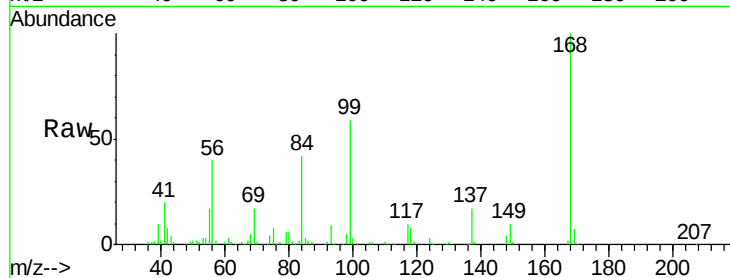
ClientSampled :

VSTDIC020

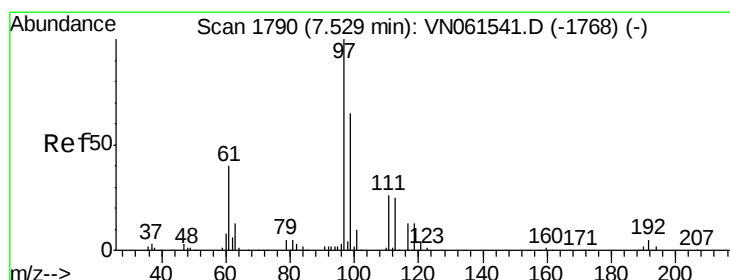
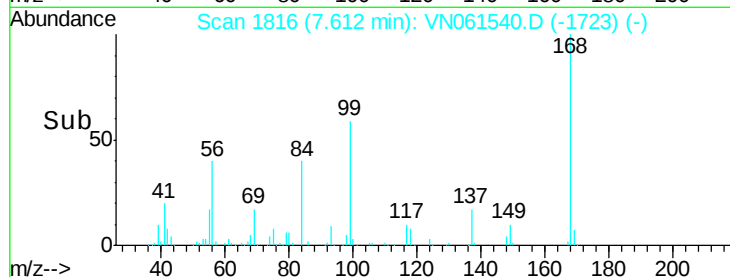
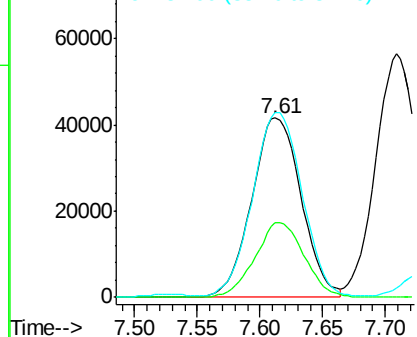
Tot Ion:	56	Resp:	114693
Ion	Ratio	Lower	Upper
56	100		
69	41.5	27.8	41.8
84	101.5	79.9	119.9

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



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



#32

1,1,1-Trichloroethane

Concen: 17.674 ug/l

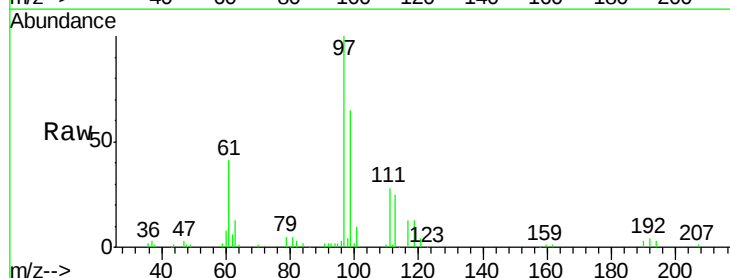
RT: 7.53 min Scan# 1790

Delta R.T. 0.00 min

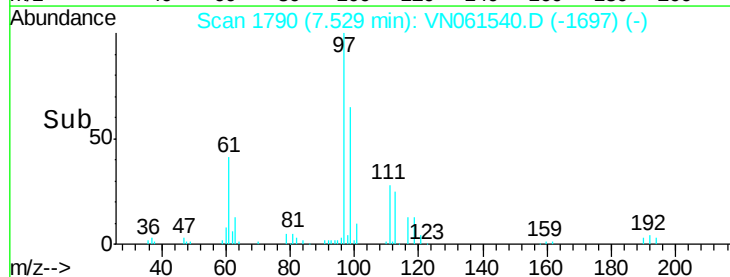
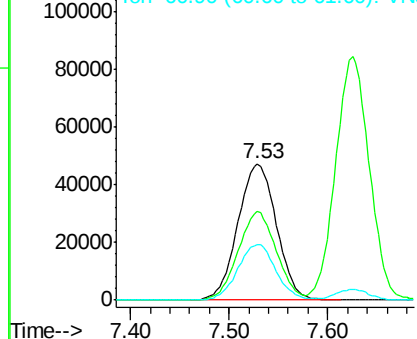
Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	97	Resp:	128020
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.0
61	40.2	31.4	47.0



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





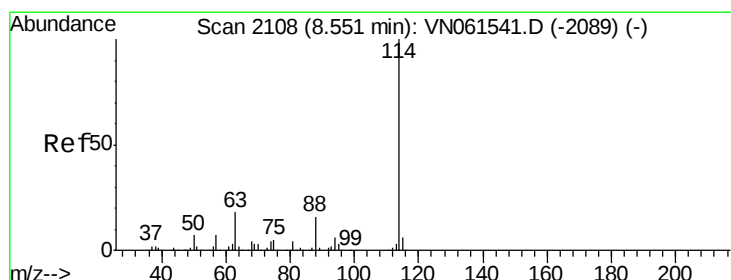
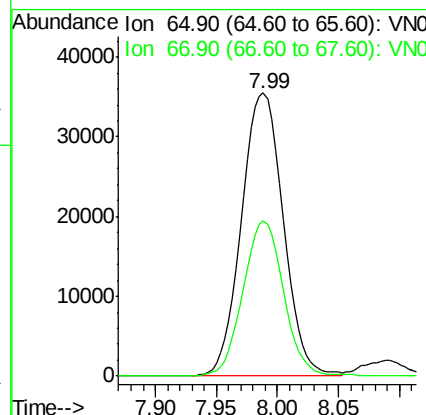
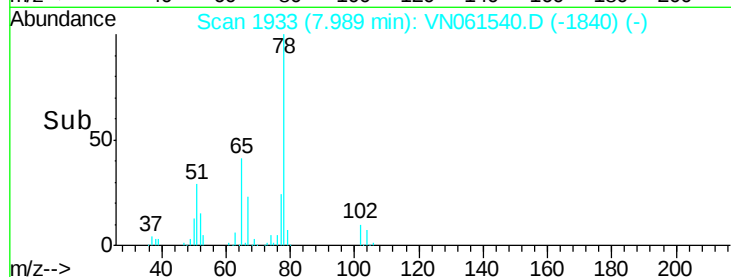
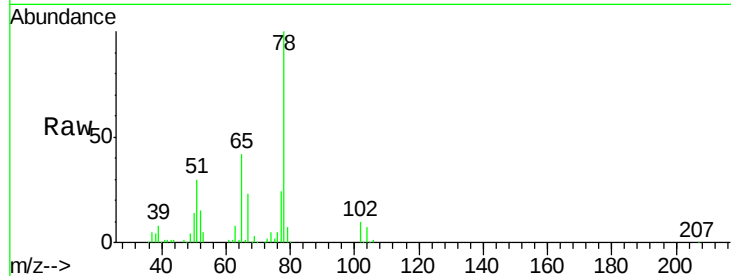
#33
 1,2-Dichloroethane-d4
 Concen: 16.421 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	84418		
67	53.0	0.0	104.8	

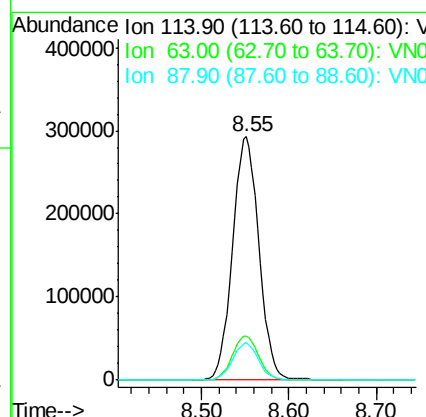
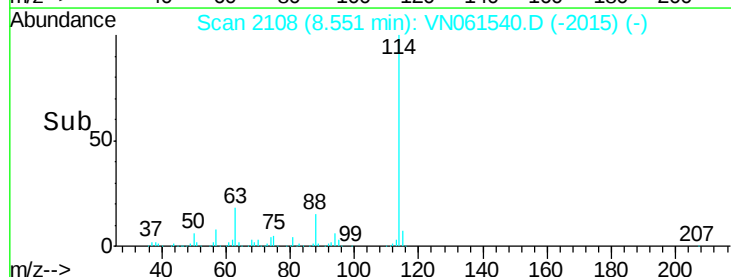
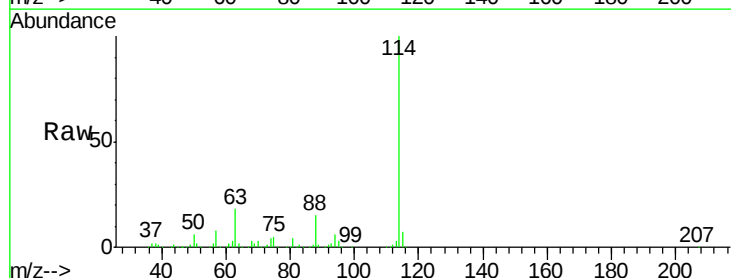
Manual Integrations
 APPROVED

MMDadoda
 5/29/2020 5:46:48 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	612124		
63	18.2	0.0	35.8	
88	15.2	0.0	31.0	





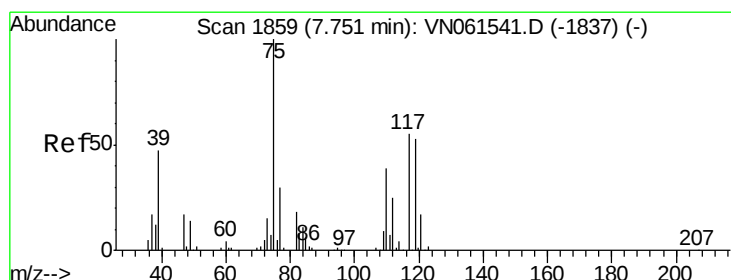
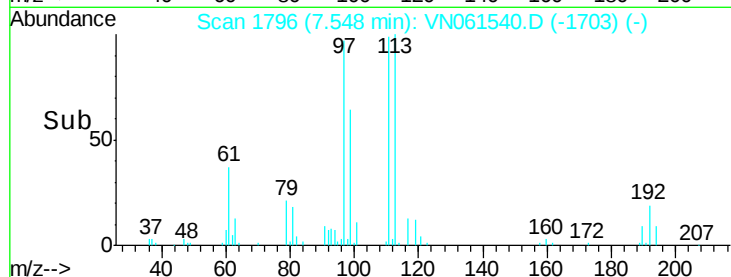
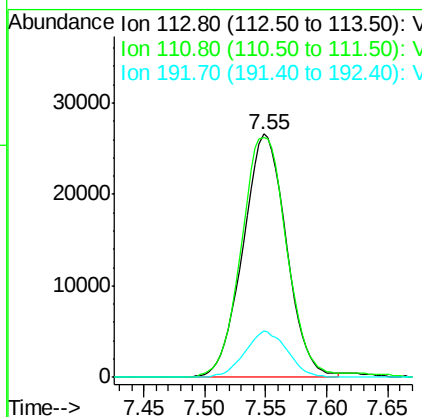
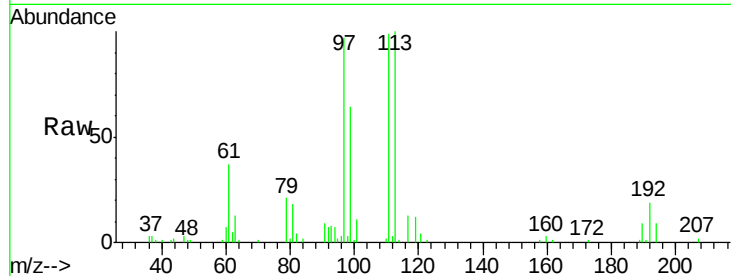
#35
 Dibromofluoromethane
 Concen: 20.287 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.4	125.0
192	18.6	15.4	23.2

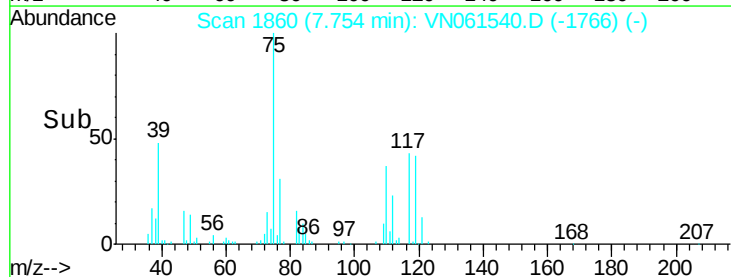
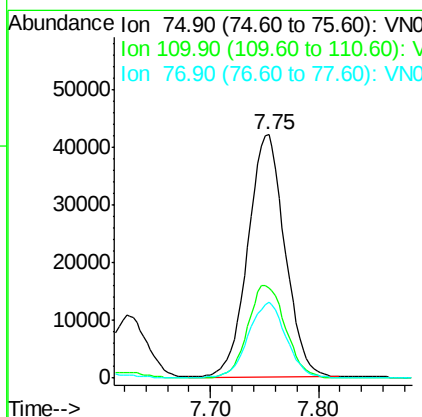
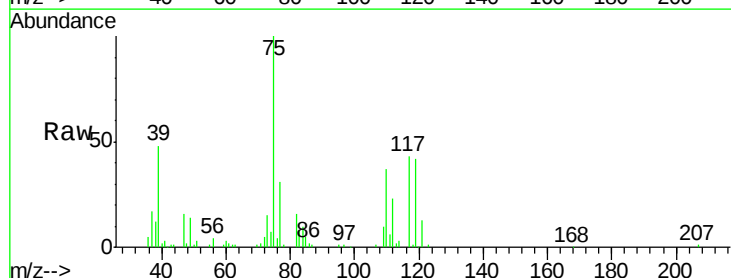
Manual Integrations
 APPROVED

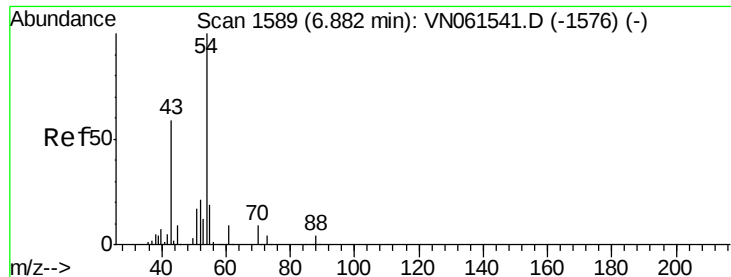
MMDadoda
 5/29/2020 5:46:48 PM



#36
 1,1-Dichloropropene
 Concen: 17.815 ug/l
 RT: 7.75 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.9	19.5	58.5
77	32.1	24.7	37.1





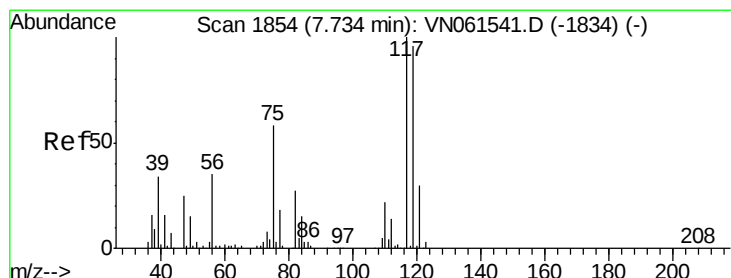
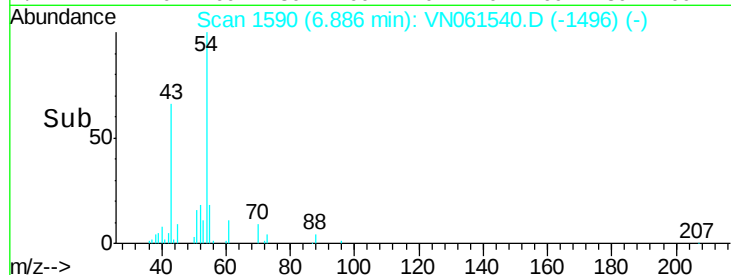
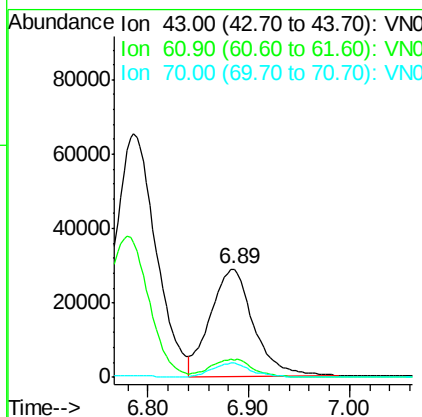
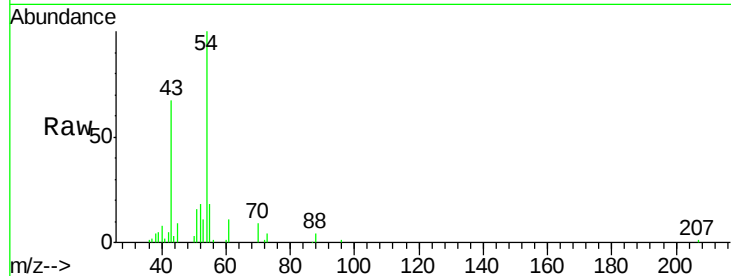
#37
Ethyl Acetate
Concen: 16.729 ug/l
RT: 6.89 min Scan# 1590
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.6	12.2	18.4
70	12.2	9.4	14.2

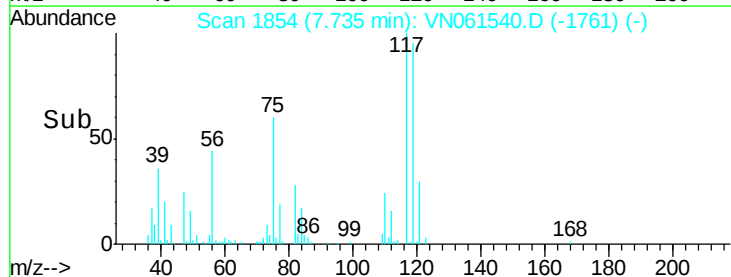
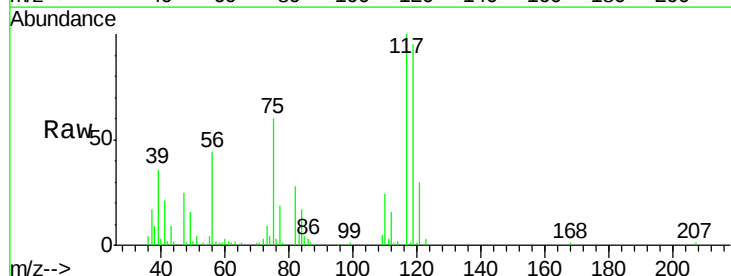
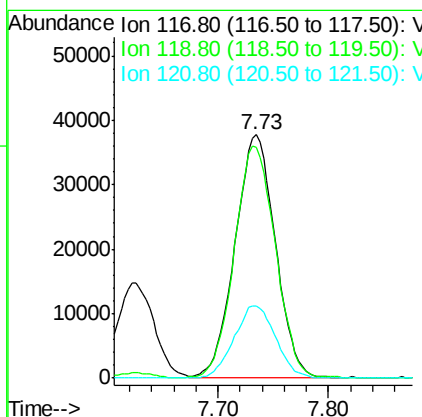
Manual Integrations
APPROVED

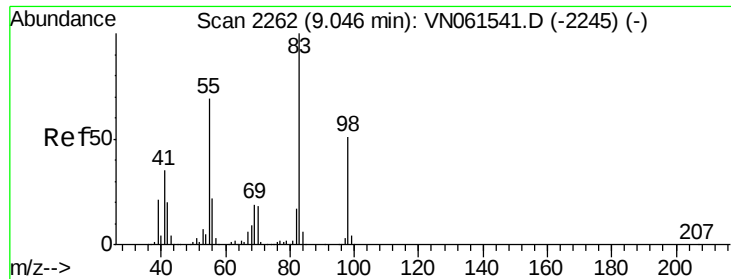
MMDadoda
5/29/2020 5:46:48 PM



#38
Carbon Tetrachloride
Concen: 18.388 ug/l
RT: 7.73 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	76.5	114.7
121	29.6	24.1	36.1





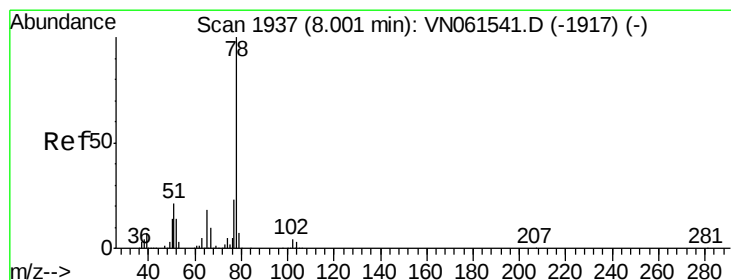
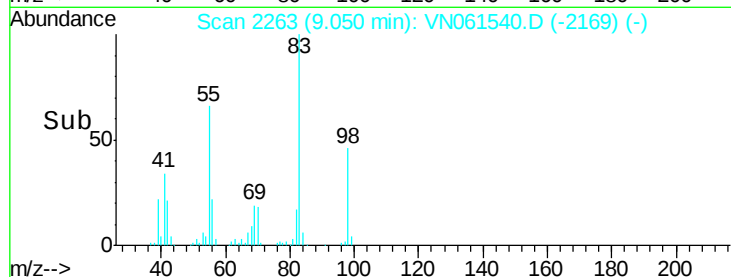
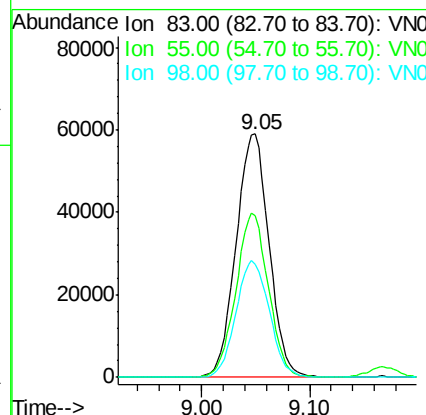
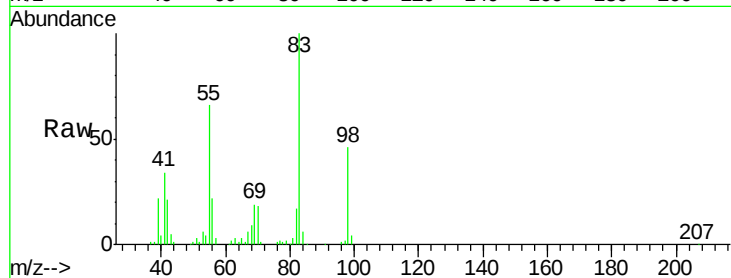
#39
Methvlcvclohexane
Concen: 18.238 ug/l
RT: 9.05 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	125927		
55	66.3		54.9	82.3
98	46.5		41.0	61.4

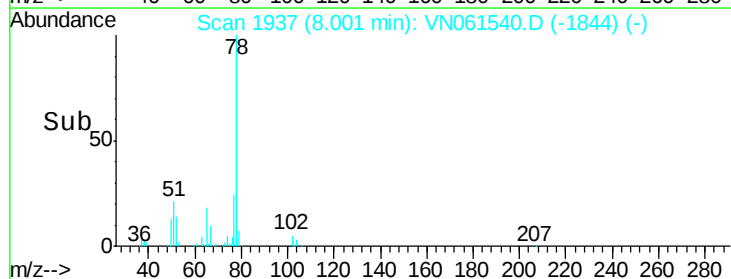
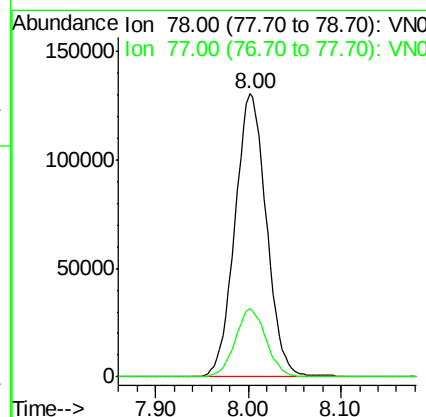
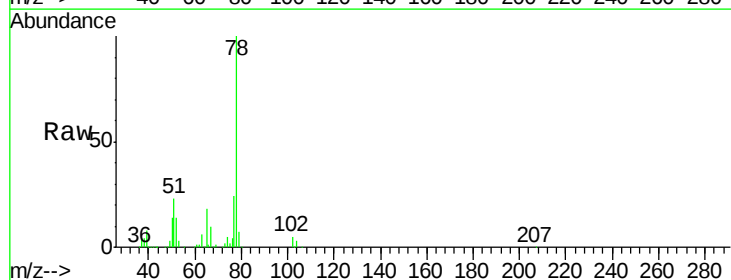
Manual Integrations
APPROVED

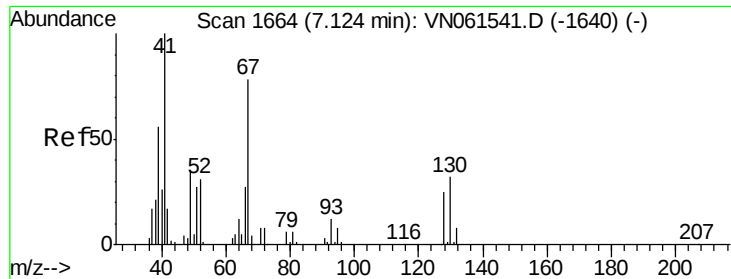
MMDadoda
5/29/2020 5:46:48 PM



#40
Benzene
Concen: 18.047 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	307274		
77	24.2		18.6	28.0





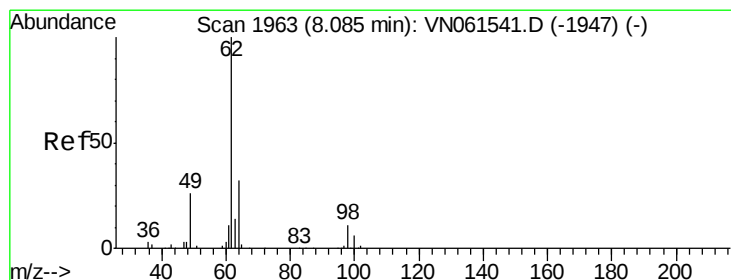
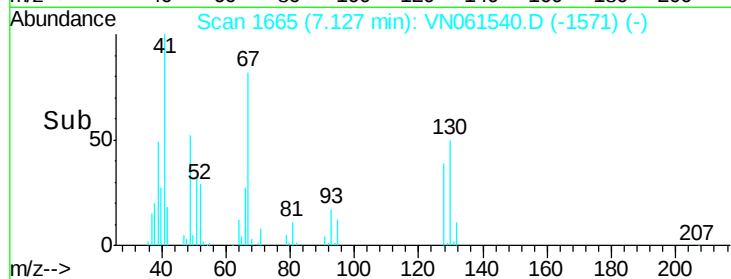
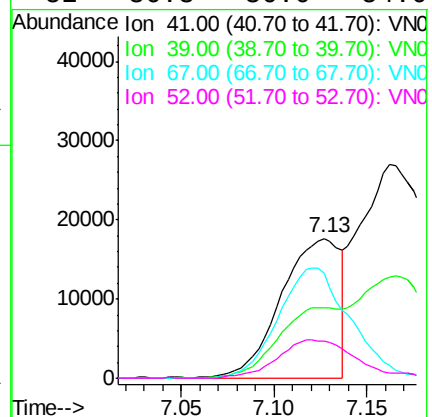
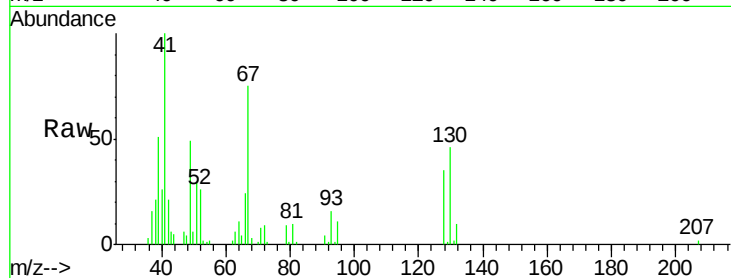
#41
Methacrylonitrile
Concen: 18.727 ug/l
RT: 7.13 min Scan# 1665
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	48.8	53.8	80.6#
67	96.5	91.1	136.7
52	36.3	36.0	54.0

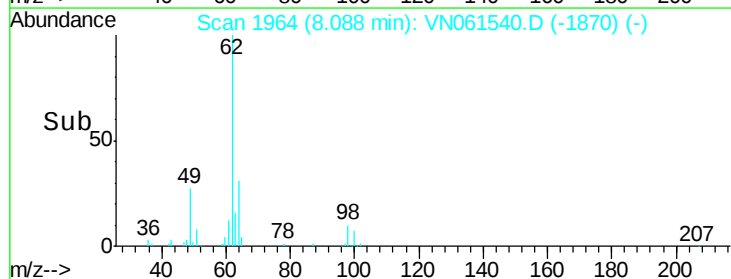
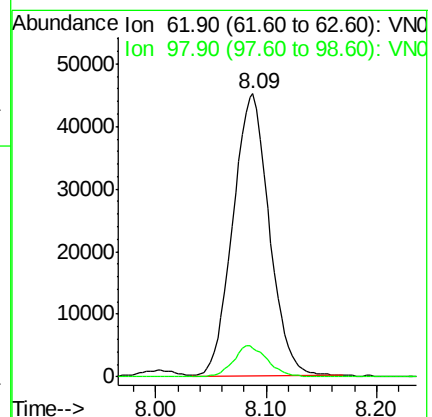
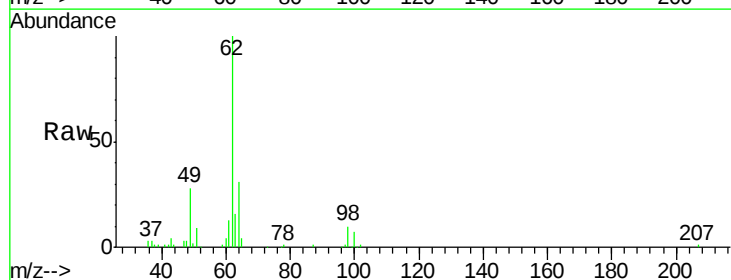
Manual Integrations
APPROVED

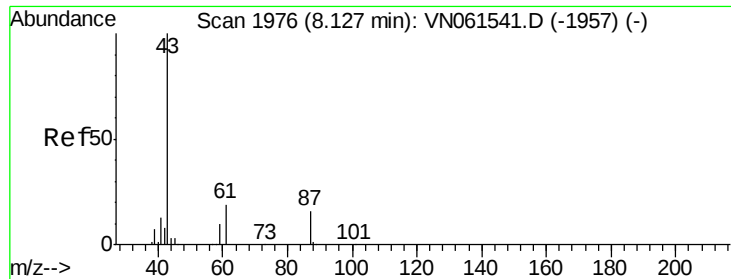
MMDadoda
5/29/2020 5:46:48 PM



#42
1,2-Dichloroethane
Concen: 16.981 ug/l
RT: 8.09 min Scan# 1964
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	21.4





#43

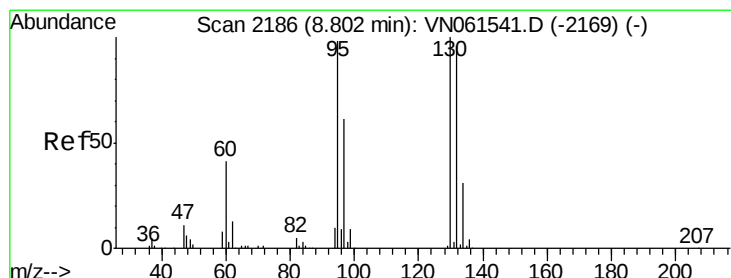
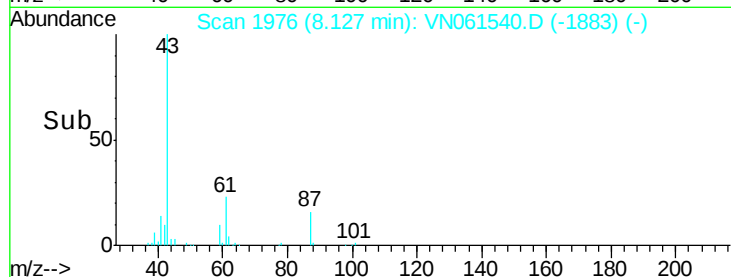
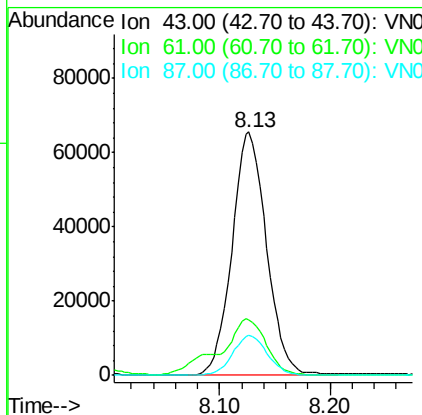
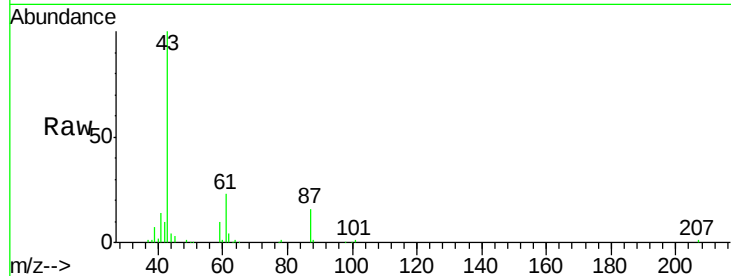
Isopropyl Acetate
 Concen: 16.104 ug/l
 RT: 8.13 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	23.3	23.6	35.4#
87	16.4	13.0	19.6

Manual Integrations
 APPROVED

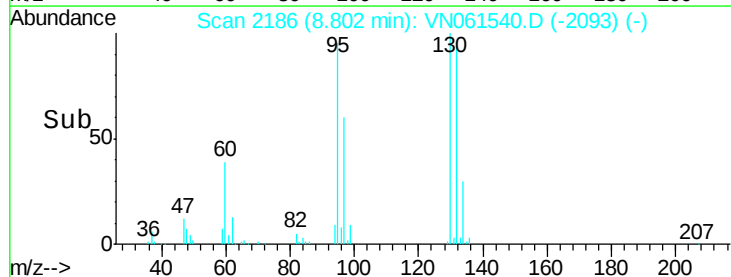
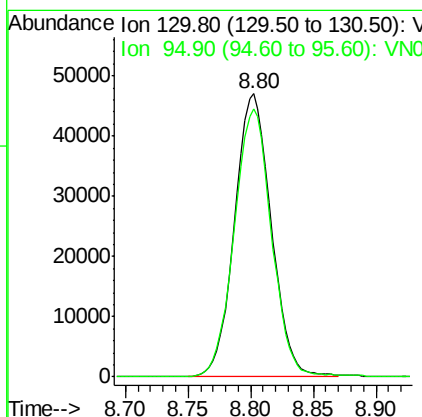
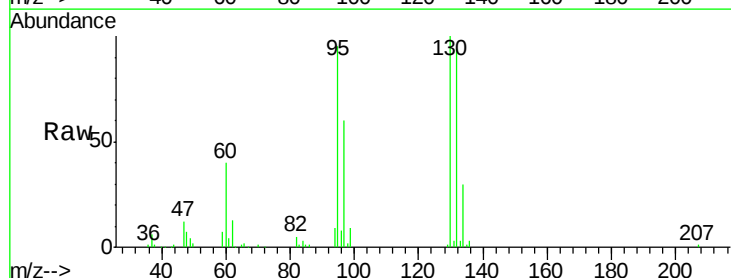
MMDadoda
 5/29/2020 5:46:48 PM



#44

Trichloroethene
 Concen: 20.800 ug/l
 RT: 8.80 min Scan# 2186
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.6	0.0	196.6





#45

1,2-Dichloropropane

Concen: 17.245 ug/l

RT: 9.08 min Scan# 2274

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 63 Resp: 72955

Ion Ratio Lower Upper

63 100

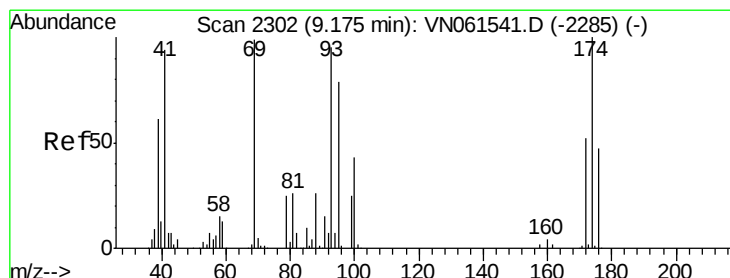
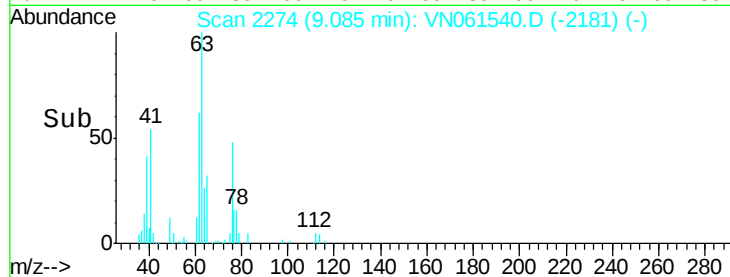
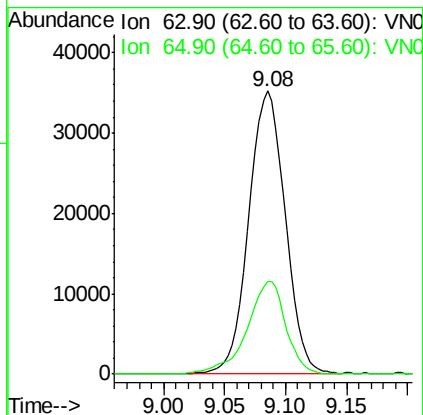
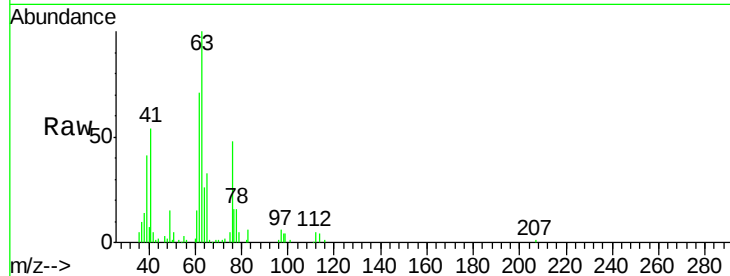
65 32.7 24.7 37.1

Manual Integrations

APPROVED

MMDadoda

5/29/2020 5:46:48 PM



#46

Dibromomethane

Concen: 18.548 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

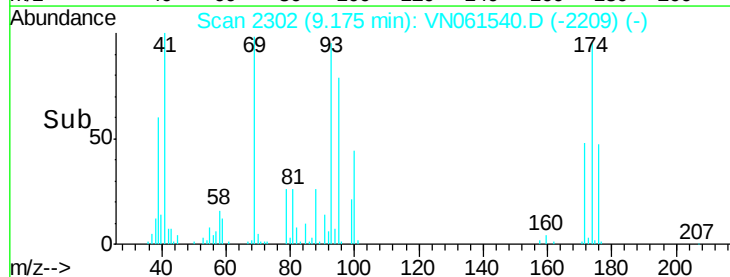
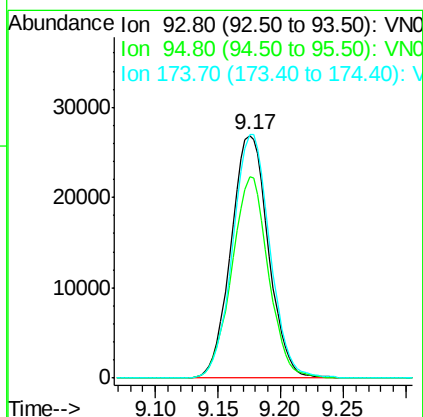
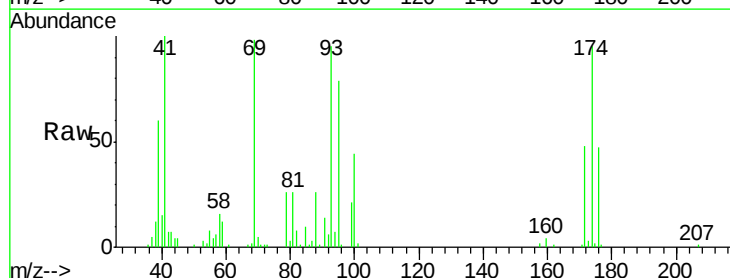
Tgt Ion: 93 Resp: 55799

Ion Ratio Lower Upper

93 100

95 81.0 66.0 99.0

174 99.7 82.5 123.7





#47

Bromodichloromethane

Concen: 17.822 ug/l

RT: 9.37 min Scan# 2363

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

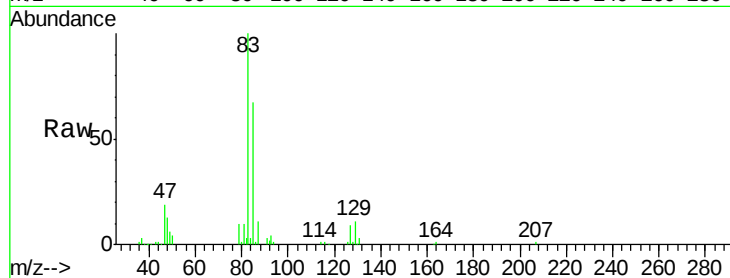
ClientSampleId :

VSTDIC020

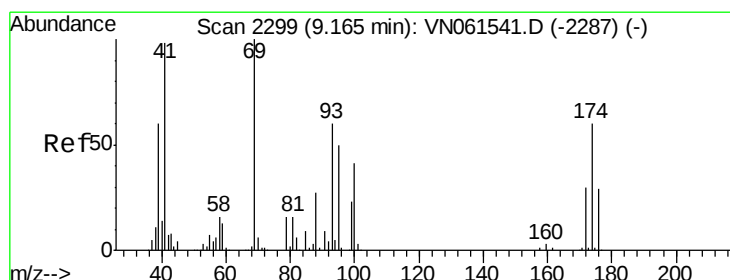
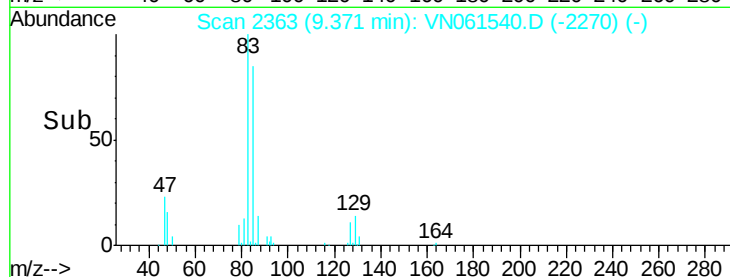
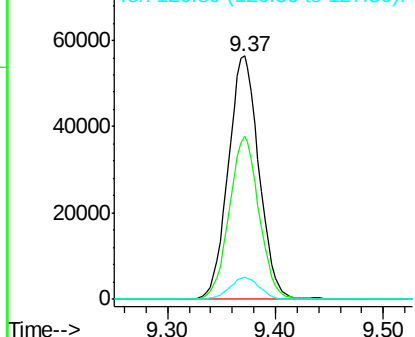
Tot Ion:	83	Resp:	111778
Ion Ratio	Lower	Upper	
83	100		
85	66.8	51.1	76.7
127	8.9	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 15.352 ug/l

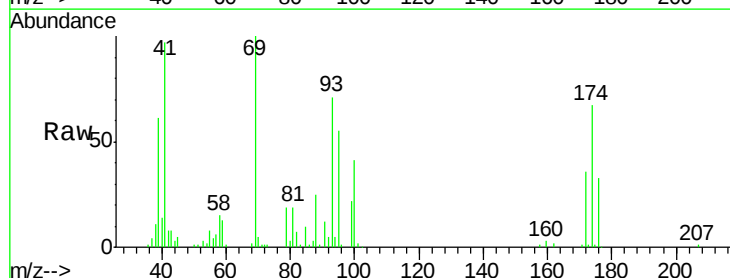
RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

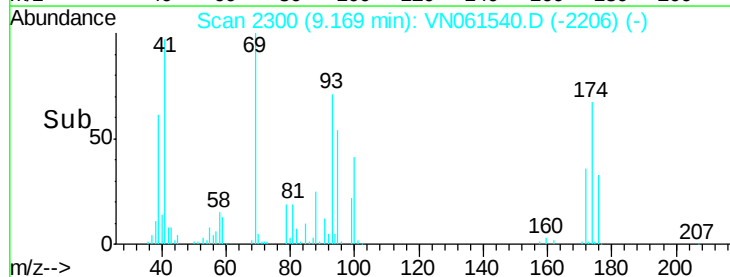
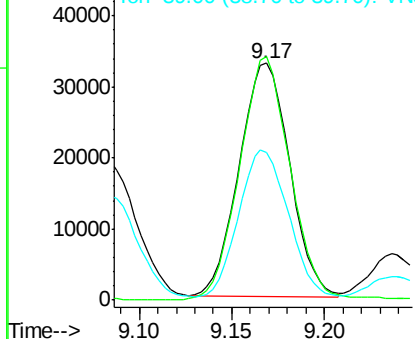
Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	41	Resp:	62272
Ion Ratio	Lower	Upper	
41	100		
69	104.0	83.9	125.9
39	62.0	52.1	78.1



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





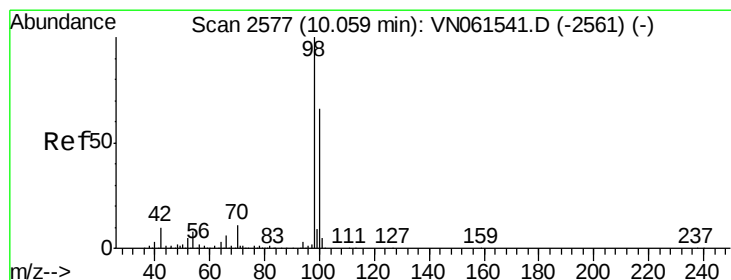
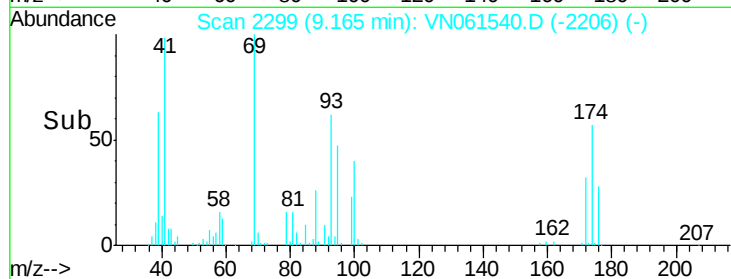
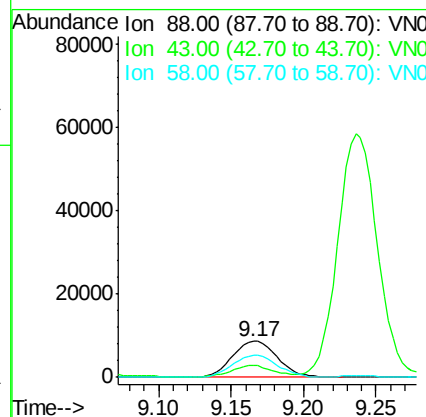
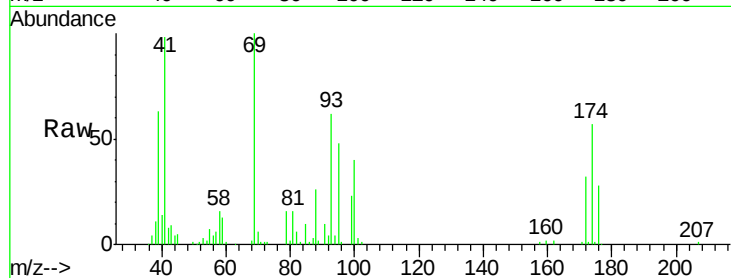
#49
1,4-Dioxane
Concen: 368.803 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	88	Resp	18732
Ion	Ratio	Lower	Upper
88	100		
43	28.7	23.1	34.7
58	61.5	48.3	72.5

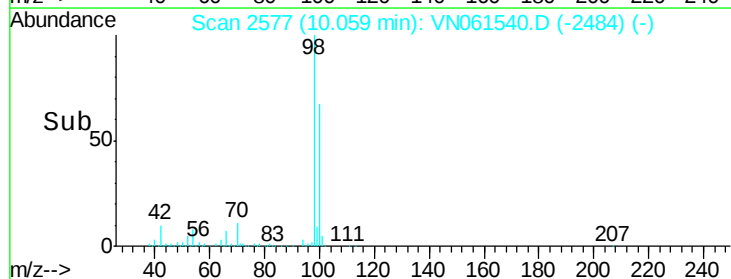
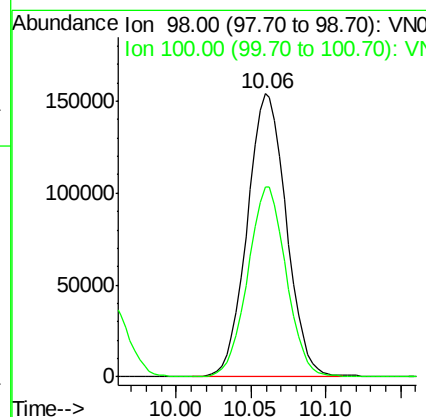
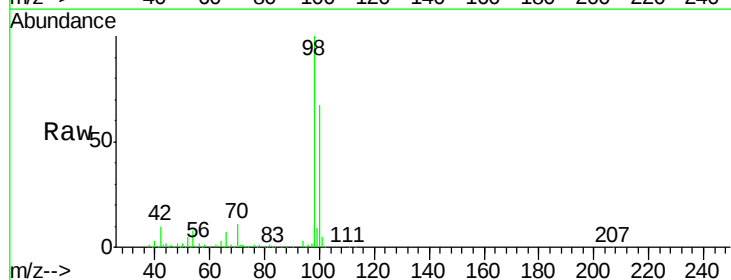
Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#50
Toluene-d8
Concen: 18.807 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	98	Resp	280428
Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.8	79.2





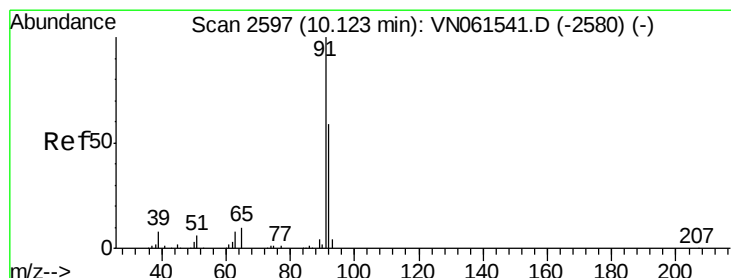
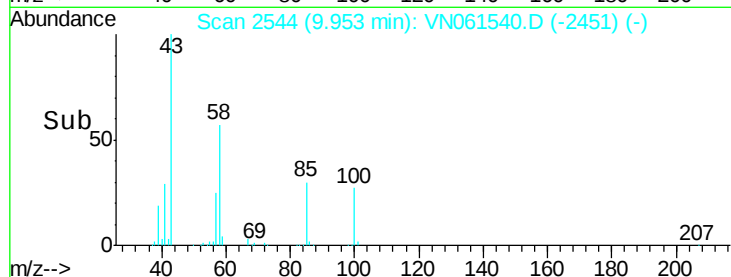
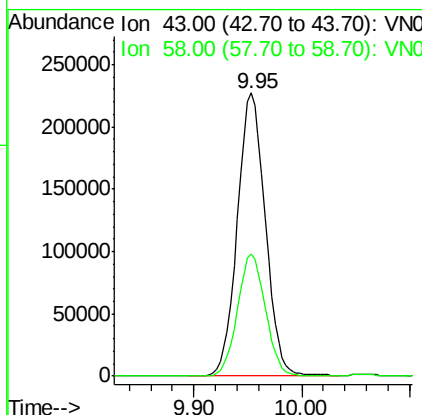
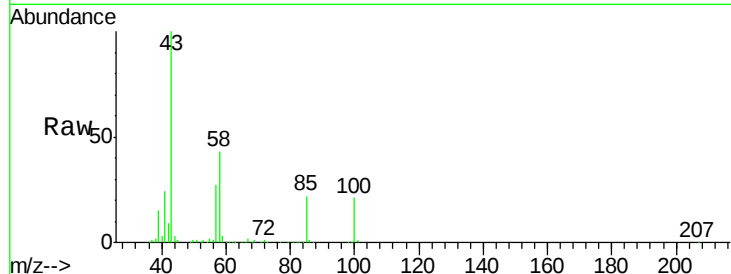
#51
4-Methyl-2-Pentanone
Concen: 85.176 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 43 Resp: 410553
Ion Ratio Lower Upper
43 100
58 43.3 35.0 52.6

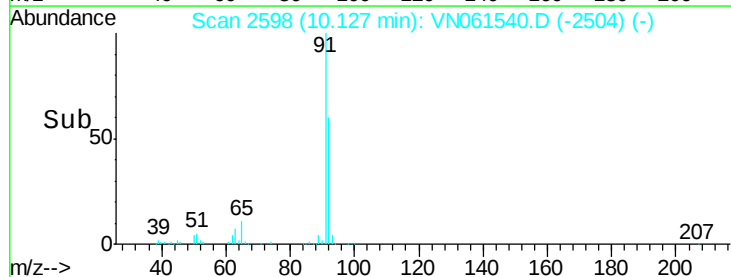
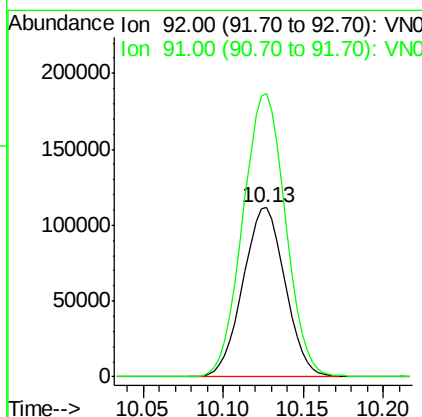
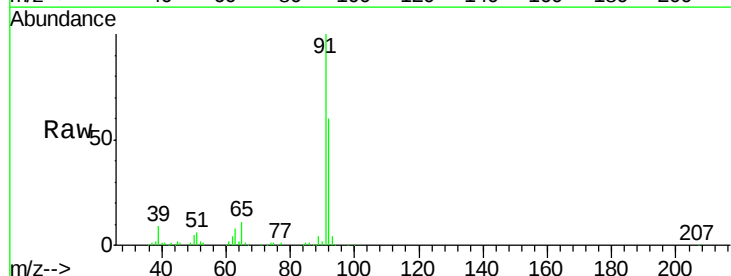
Manual Integrations
APPROVED

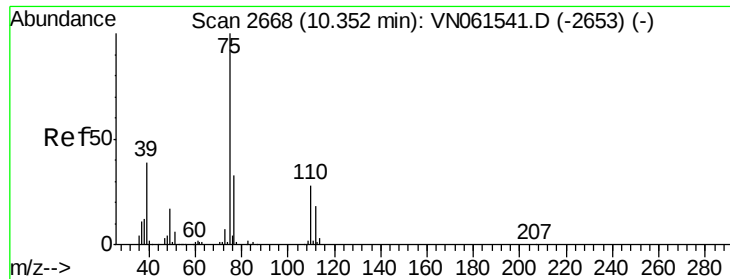
MMDadoda
5/29/2020 5:46:48 PM



#52
Toluene
Concen: 18.401 ug/l
RT: 10.13 min Scan# 2598
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion: 92 Resp: 201846
Ion Ratio Lower Upper
92 100
91 169.6 136.4 204.6





#53

t-1,3-Dichloropropene

Concen: 17.310 ug/l

RT: 10.35 min Scan# 2668

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 75 Resp: 118438

Ion Ratio Lower Upper

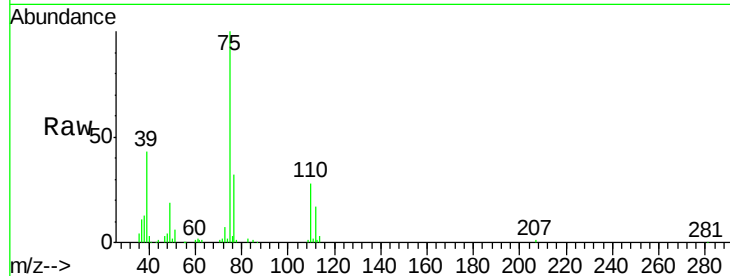
75 100

77 31.8 26.2 39.4

Manual Integrations
APPROVED

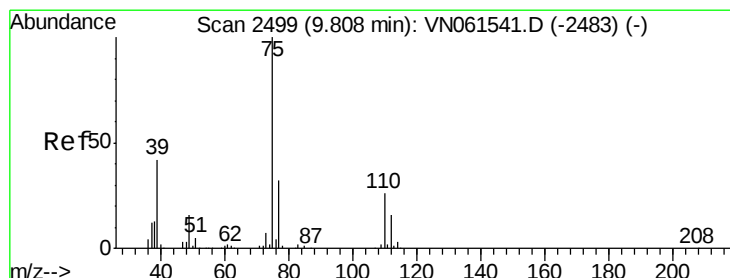
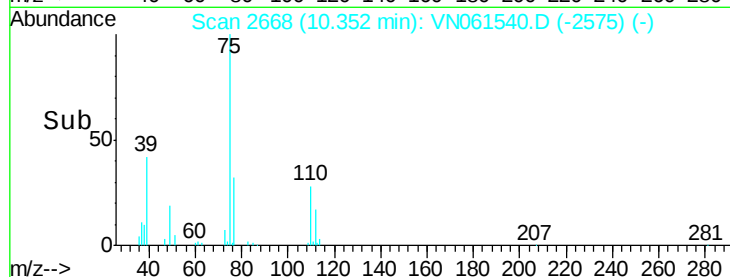
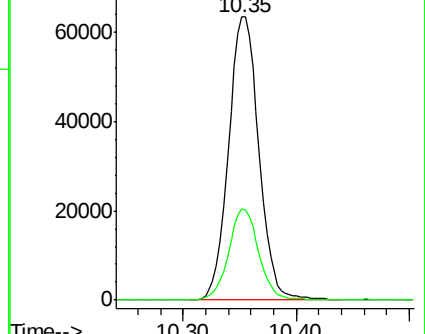
MMDadoda

5/29/2020 5:46:48 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 17.490 ug/l

RT: 9.81 min Scan# 2499

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

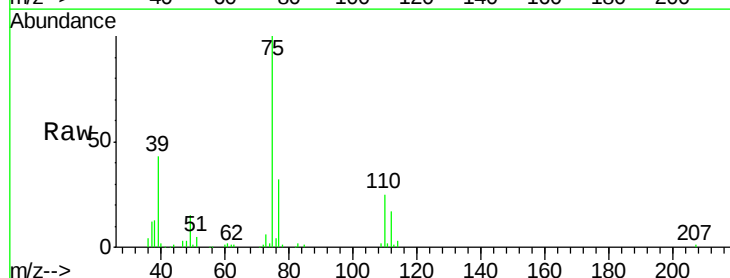
Tgt Ion: 75 Resp: 127911

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.2

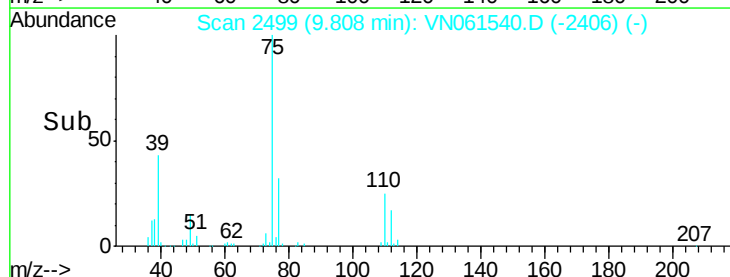
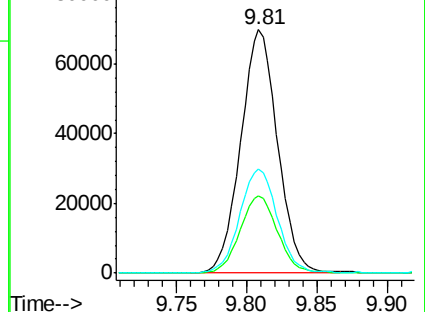
39 42.5 33.8 50.6



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





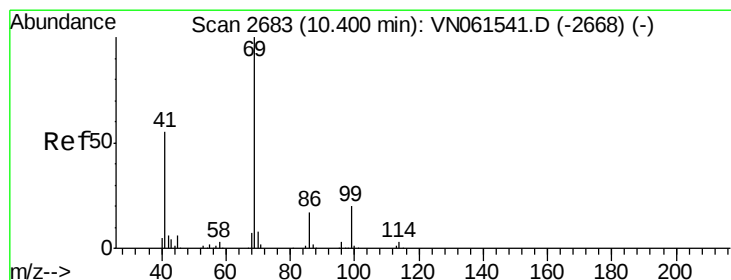
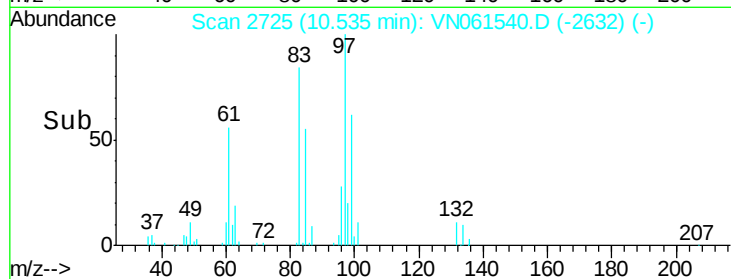
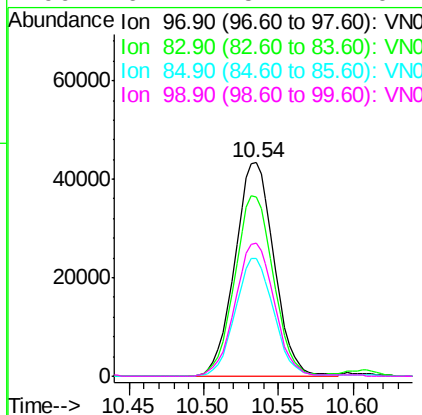
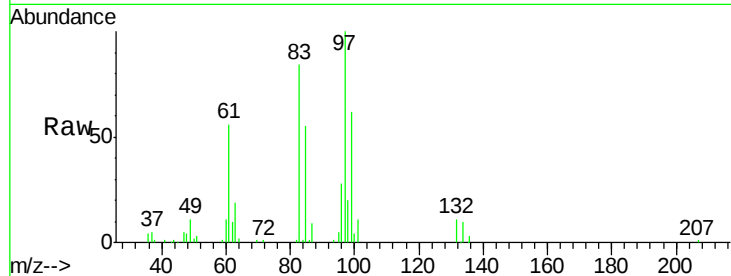
#55
 1,1,2-Trichloroethane
 Concen: 19.033 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	79218
Ion	Ratio	Lower	Upper
97	100		
83	83.8	68.1	102.1
85	54.9	44.1	66.1
99	62.2	51.1	76.7

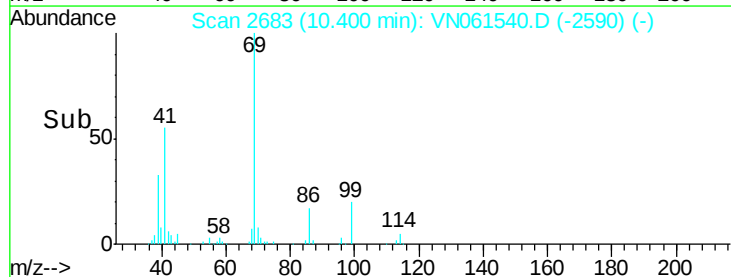
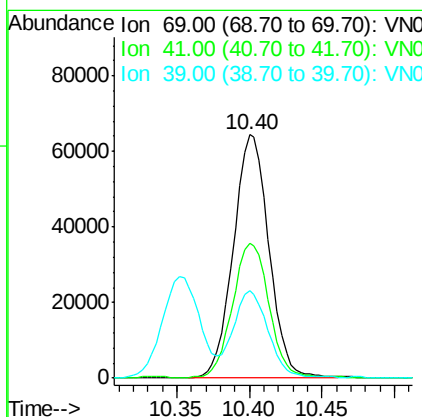
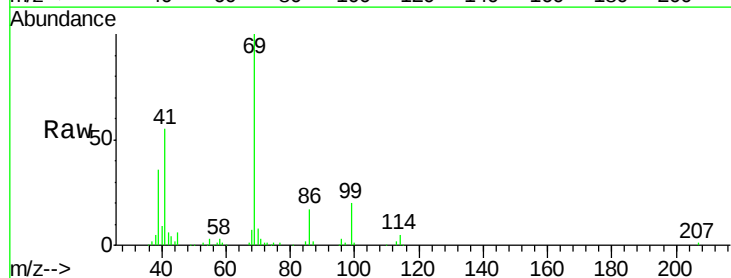
Manual Integrations
 APPROVED

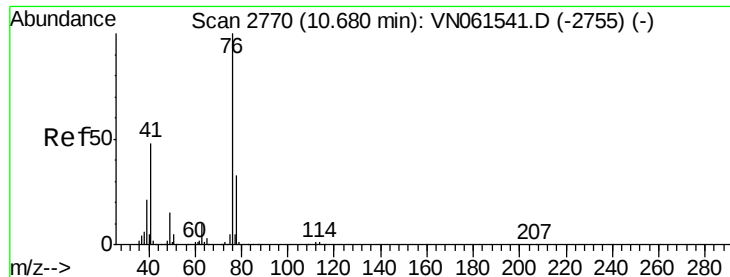
MMDadoda
 5/29/2020 5:46:48 PM



#56
 Ethyl methacrylate
 Concen: 17.087 ug/l
 RT: 10.40 min Scan# 2683
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion:	69	Resp:	109828
Ion	Ratio	Lower	Upper
69	100		
41	56.4	43.5	65.3
39	35.0	27.0	40.6





#57

1,3-Dichloropropane

Concen: 18.200 ug/l

RT: 10.68 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 129629

Ion Ratio Lower Upper

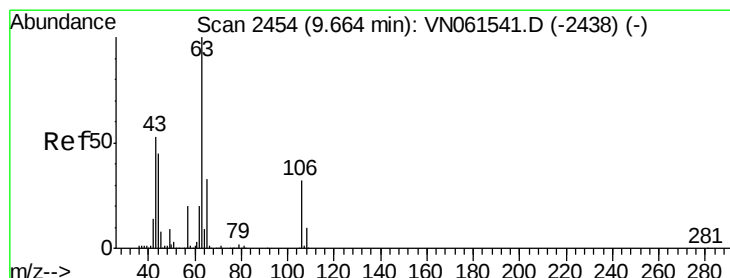
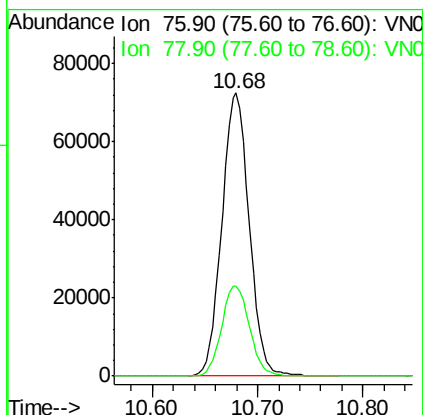
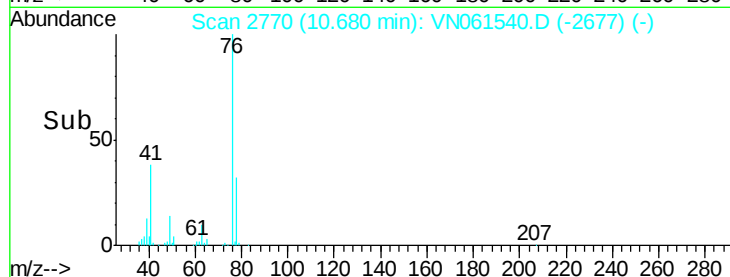
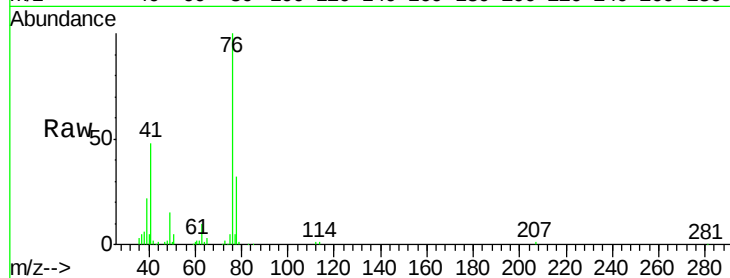
76 100

78 32.5 26.3 39.5

Manual Integrations
APPROVED

MMDadoda

5/29/2020 5:46:48 PM



#58

2-Chloroethyl Vinyl ether

Concen: 87.920 ug/l

RT: 9.66 min Scan# 2454

Delta R.T. 0.00 min

Lab File: VN061540.D

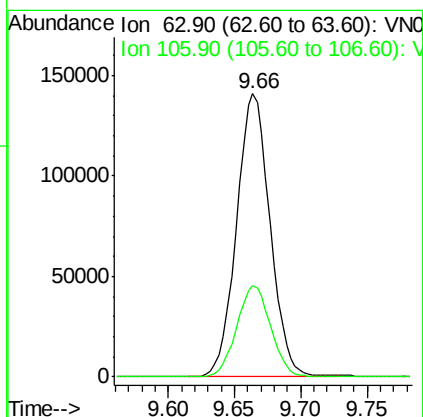
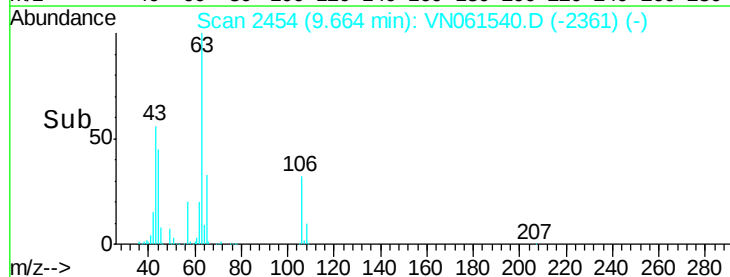
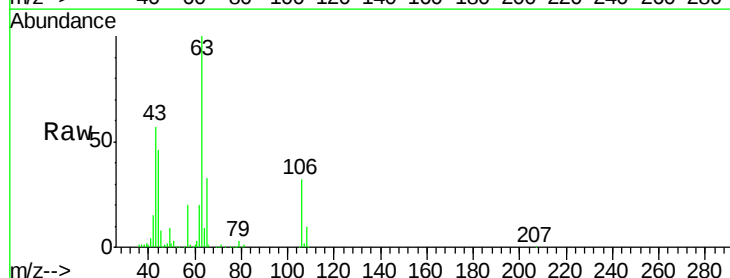
Acq: 28 May 2020 18:32

Tgt Ion: 63 Resp: 247879

Ion Ratio Lower Upper

63 100

106 32.6 25.9 38.9





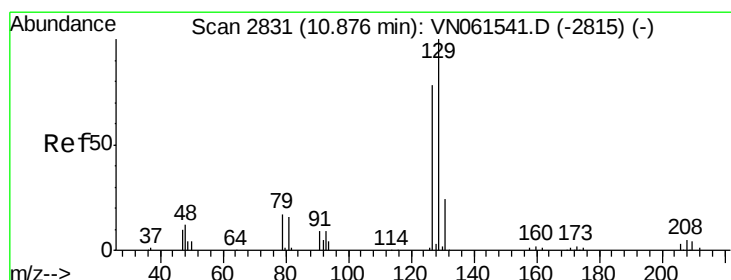
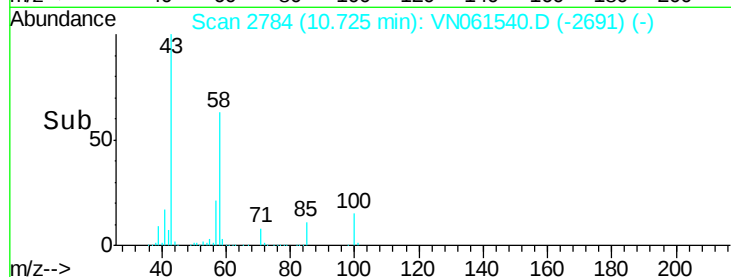
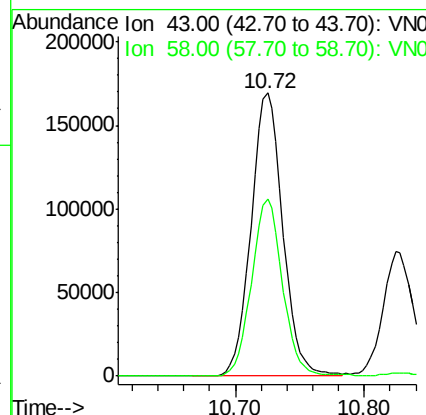
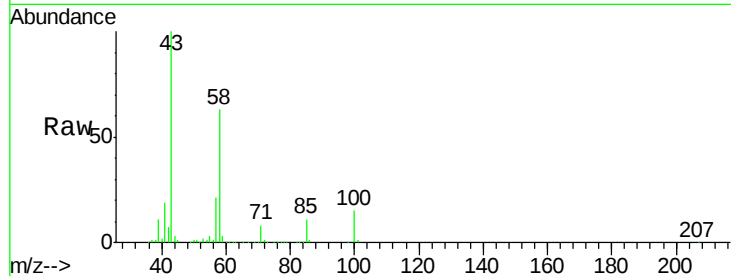
#59
2-Hexanone
Concen: 82.999 ug/l
RT: 10.72 min Scan# 2784
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 43 Resp: 289273
Ion Ratio Lower Upper
43 100
58 61.6 30.7 92.1

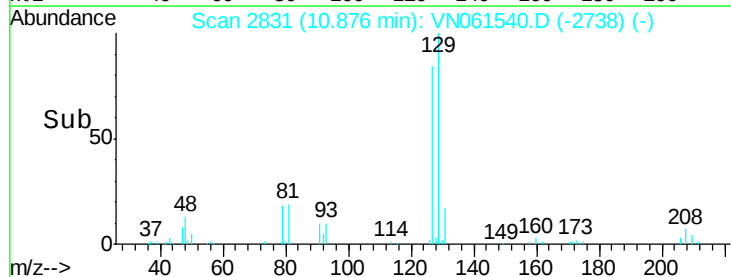
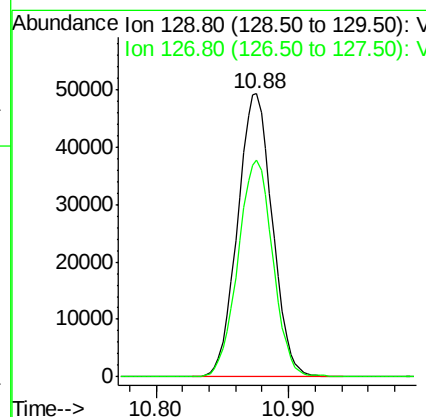
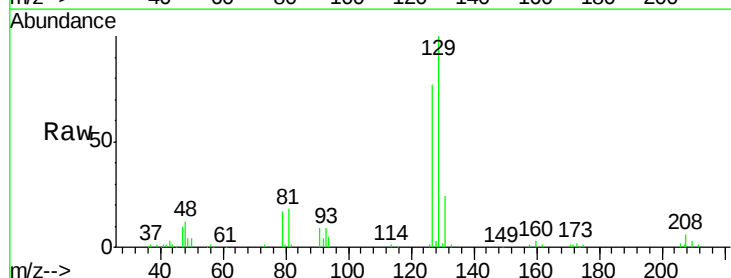
Manual Integrations
APPROVED

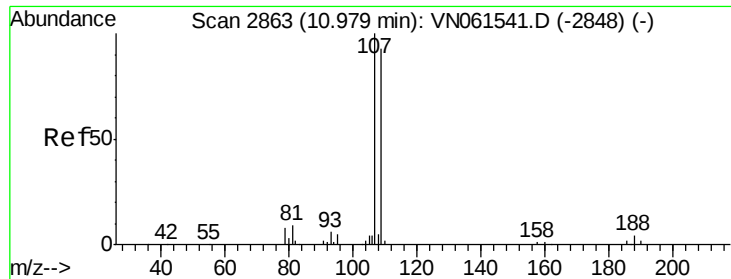
MMDadoda
5/29/2020 5:46:48 PM



#60
Dibromochloromethane
Concen: 19.323 ug/l
RT: 10.88 min Scan# 2831
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion: 129 Resp: 89674
Ion Ratio Lower Upper
129 100
127 76.6 38.8 116.3





#61

1,2-Dibromoethane

Concen: 18.954 ug/l

RT: 10.98 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 83173

Ion Ratio Lower Upper

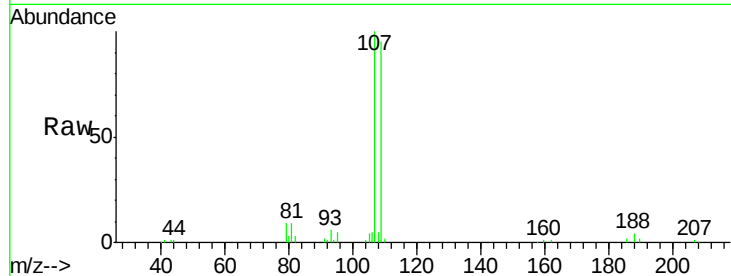
107 100

109 95.4 76.1 114.1

Manual Integrations
APPROVED

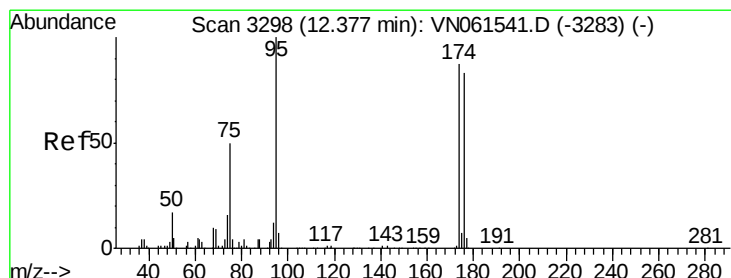
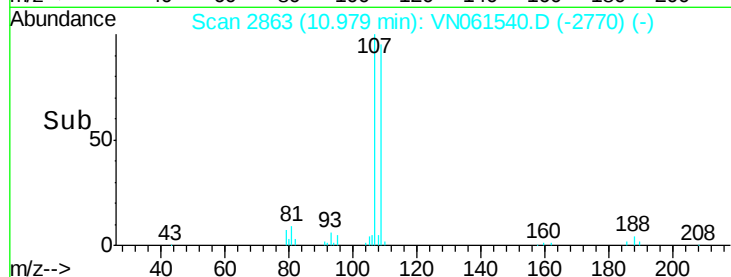
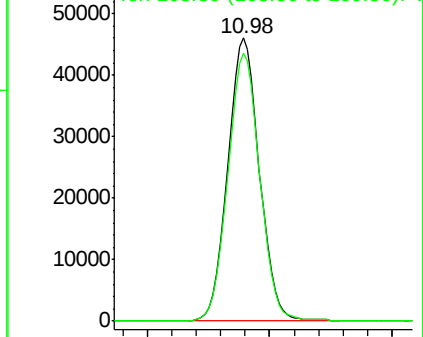
MMDadoda

5/29/2020 5:46:48 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 17.753 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

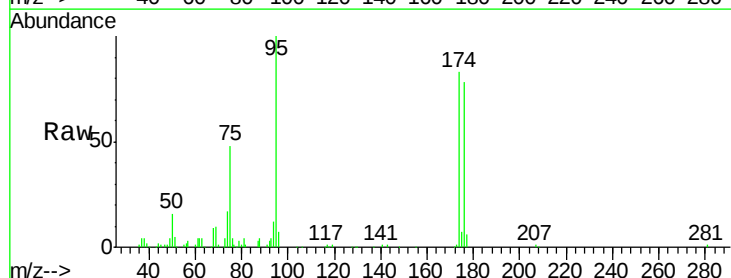
Tgt Ion: 95 Resp: 97814

Ion Ratio Lower Upper

95 100

174 82.9 0.0 172.8

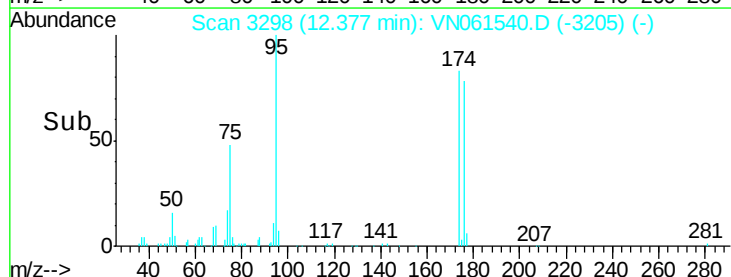
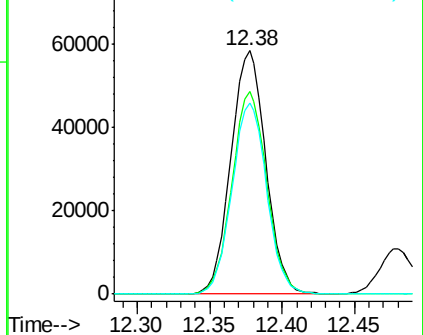
176 77.9 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





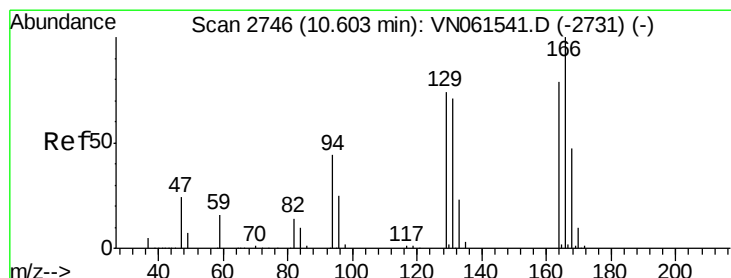
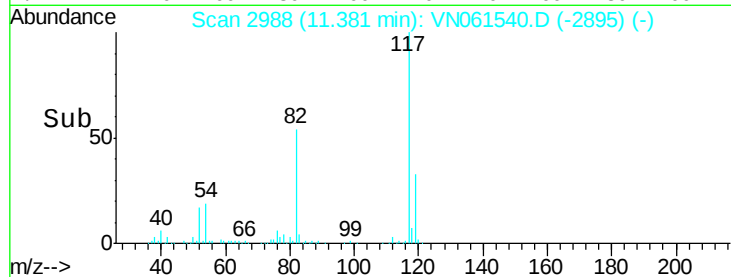
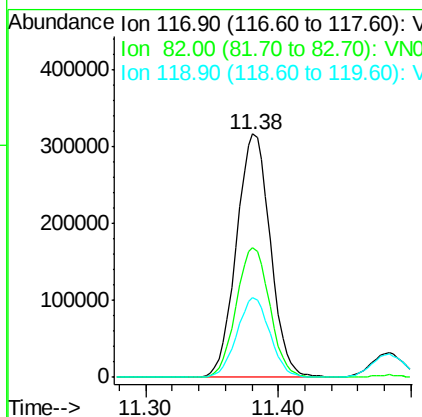
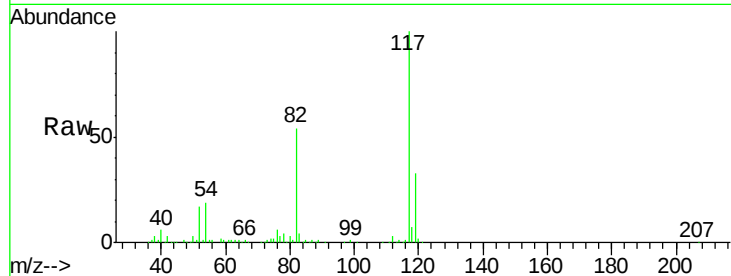
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	561813		
82	53.5		41.5	62.3
119	32.8		25.6	38.4

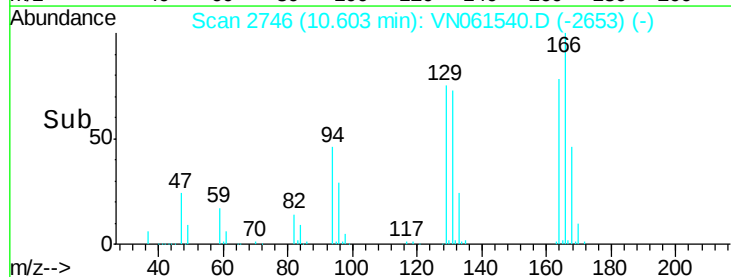
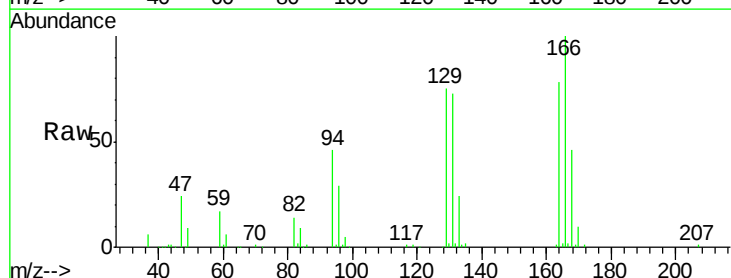
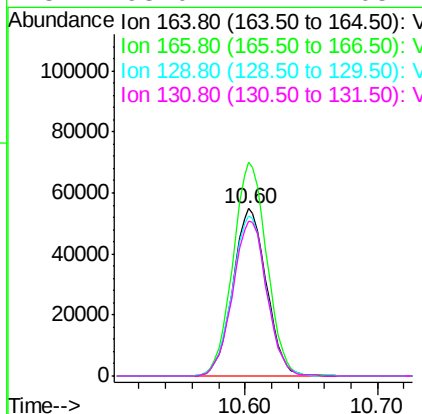
Manual Integrations
APPROVED

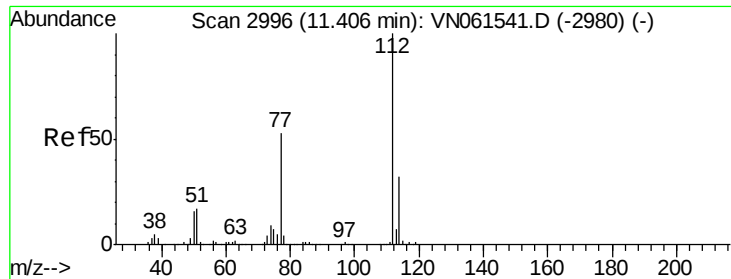
MMDadoda
5/29/2020 5:46:48 PM



#64
Tetrachloroethene
Concen: 21.466 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	96226		
166	127.8		101.5	152.3
129	95.9		74.9	112.3
131	93.0		72.2	108.2





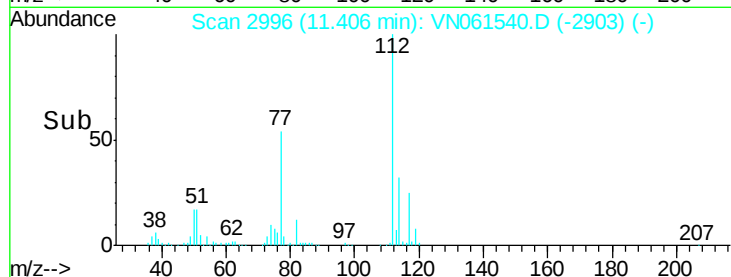
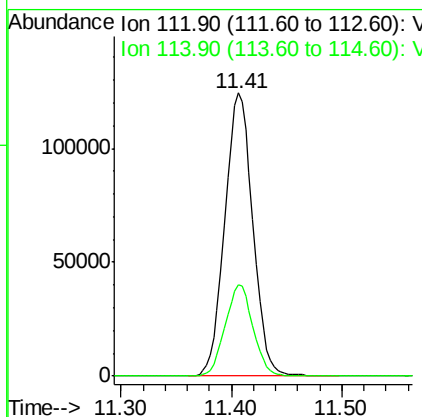
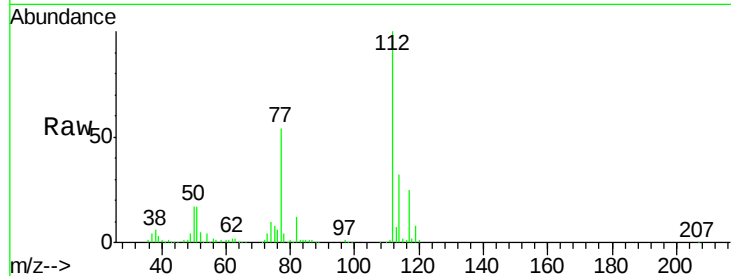
#65
Chlorobenzene
Concen: 19.140 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
112	100	218651		
114	32.4	25.7	38.5	

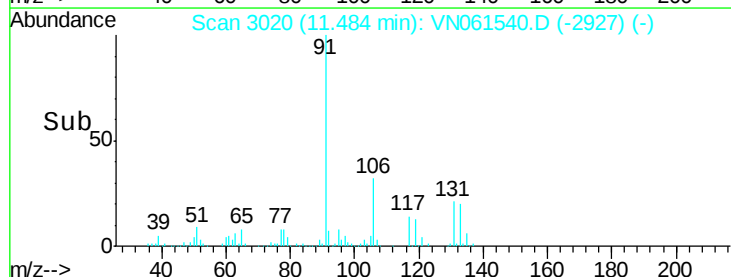
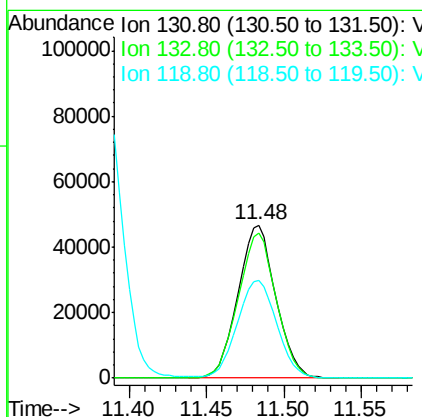
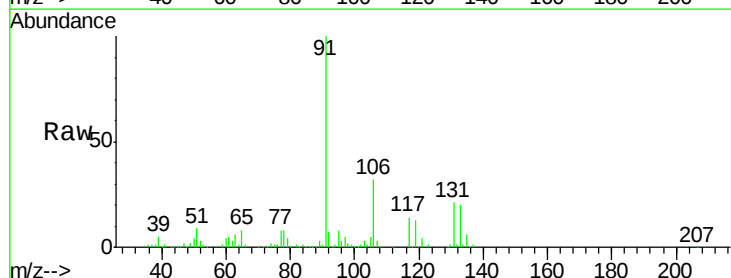
Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.237 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	79281		
133	95.6	47.4	142.2	
119	67.0	32.6	97.8	





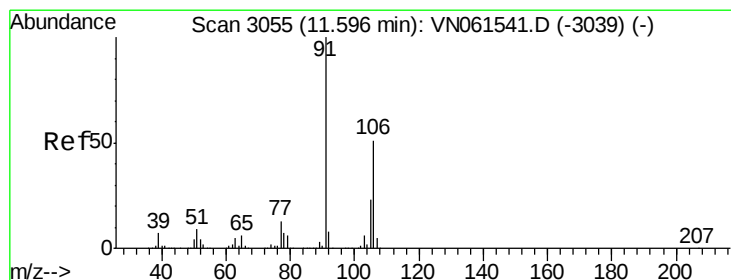
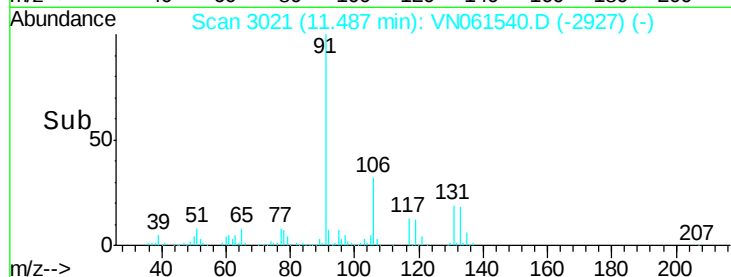
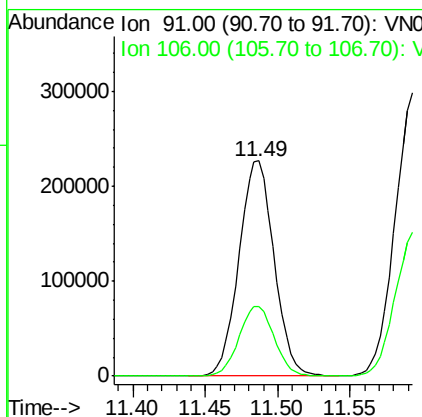
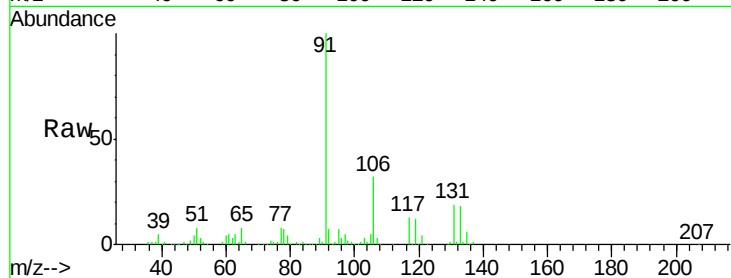
#67
Ethyl Benzene
Concen: 18.542 ug/l
RT: 11.49 min Scan# 3021
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 91 Resp: 381997
Ion Ratio Lower Upper
91 100
106 32.2 25.6 38.4

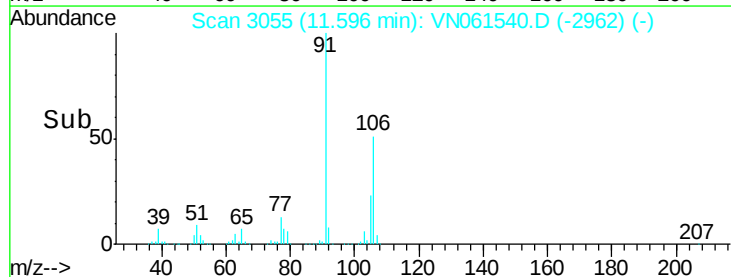
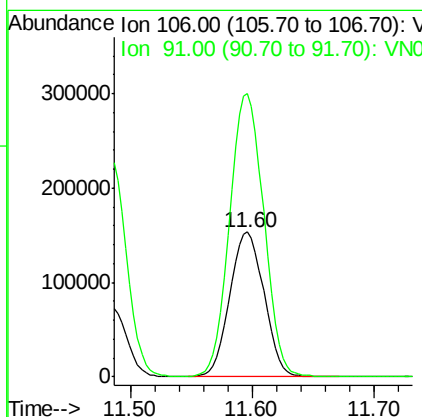
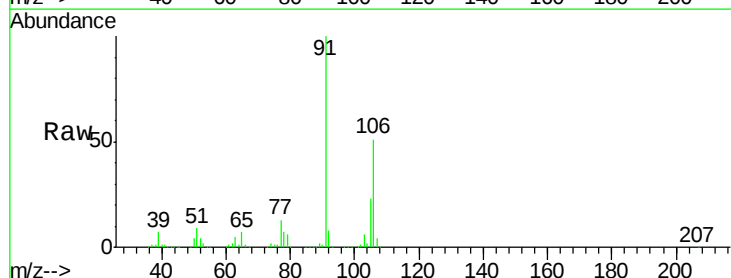
Manual Integrations
APPROVED

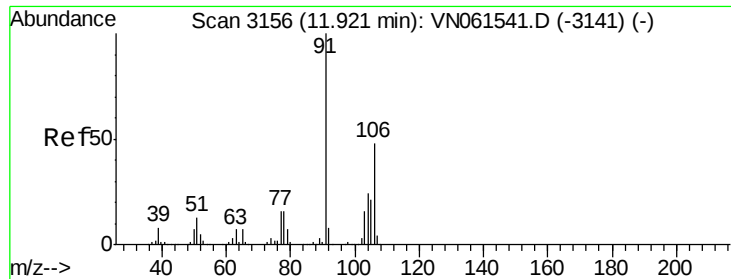
MMDadoda
5/29/2020 5:46:48 PM



#68
m/p-Xylenes
Concen: 38.062 ug/l
RT: 11.60 min Scan# 3055
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion: 106 Resp: 299691
Ion Ratio Lower Upper
106 100
91 194.9 156.2 234.4





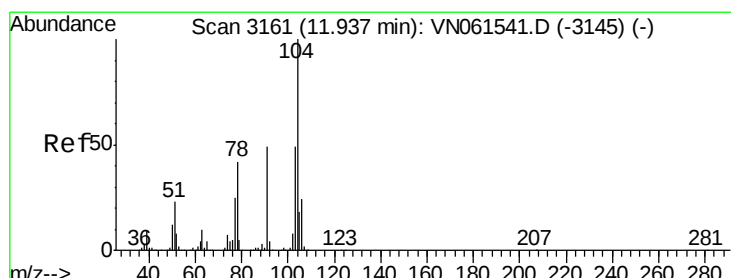
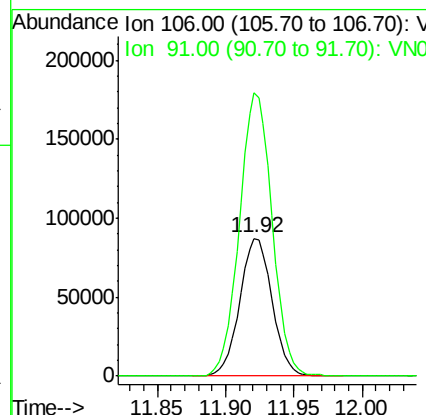
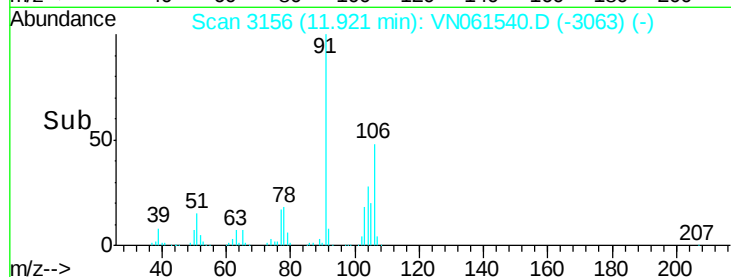
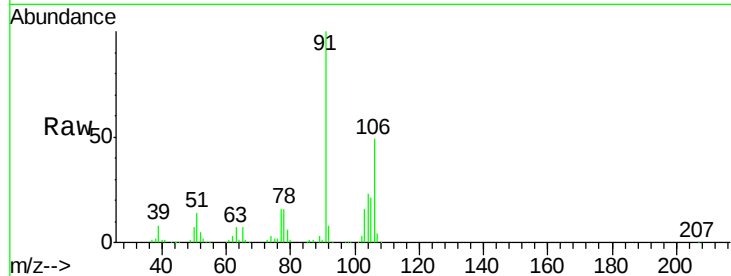
#69
o-Xylene
Concen: 18.856 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	207.5	103.3	143698	309.8	

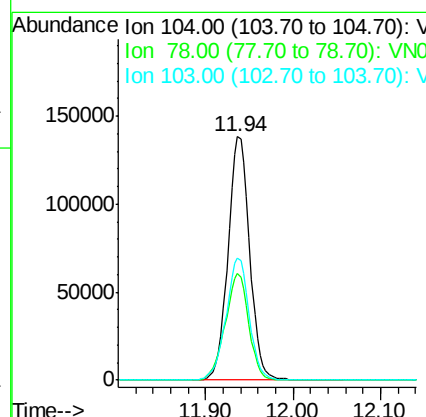
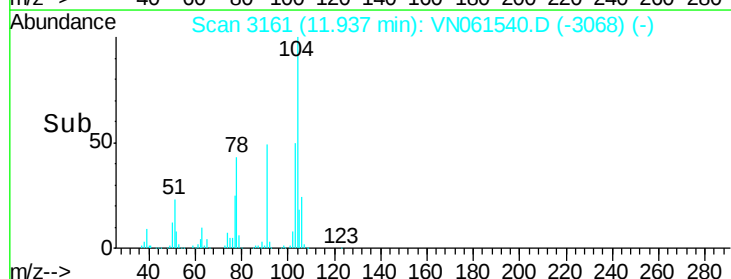
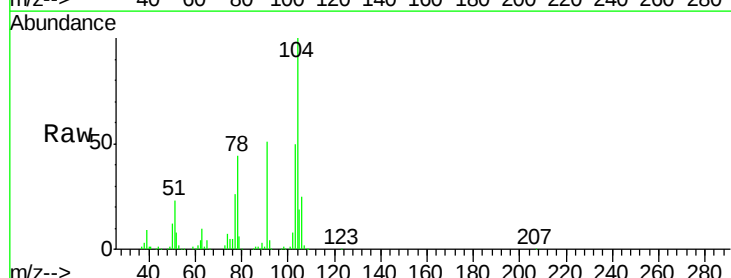
Manual Integrations
APPROVED

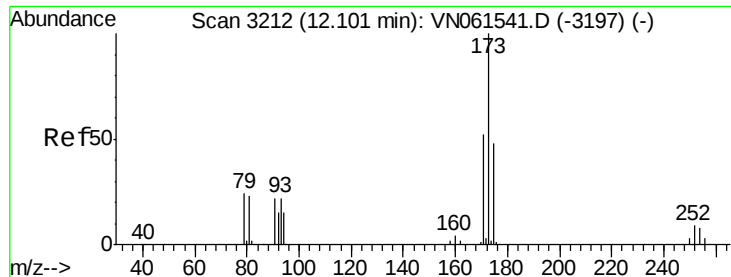
MMDadoda
5/29/2020 5:46:48 PM



#70
Styrene
Concen: 18.869 ug/l
RT: 11.94 min Scan# 3161
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	47.5	37.4	237666	56.0	
103	53.6	42.3		63.5	





#71

Bromoform

Concen: 19.994 ug/l

RT: 12.10 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

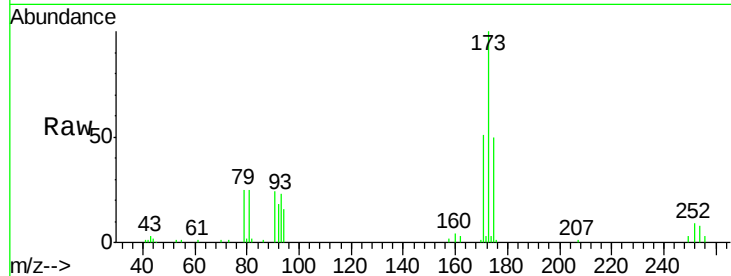
ClientSampled :

VSTDIC020

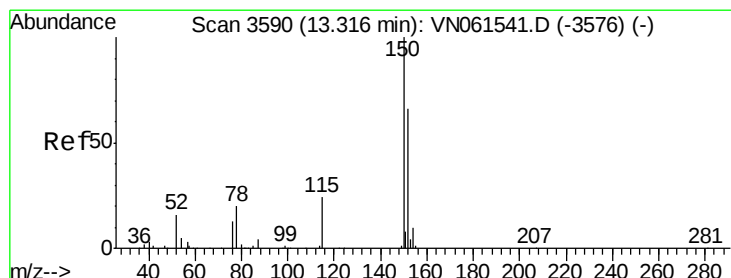
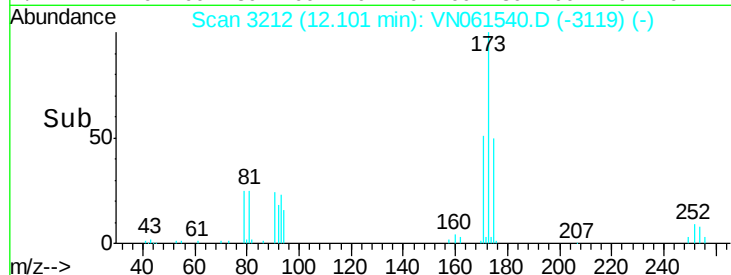
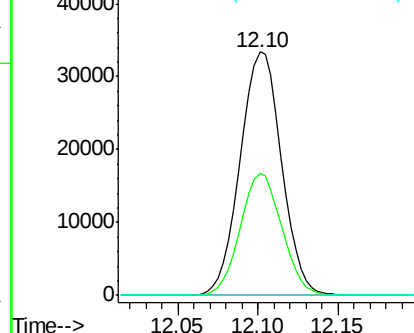
Tot Ion:	173	Resp:	58931
Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

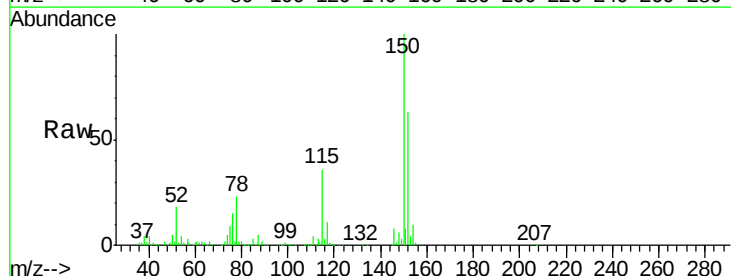
RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

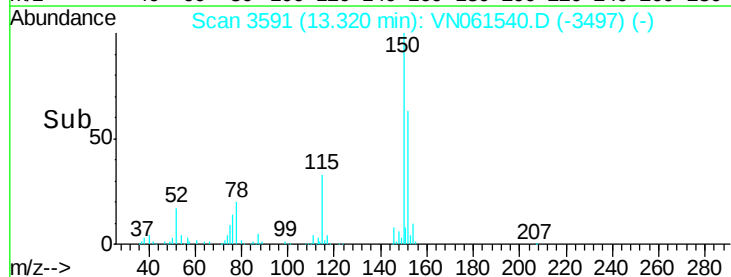
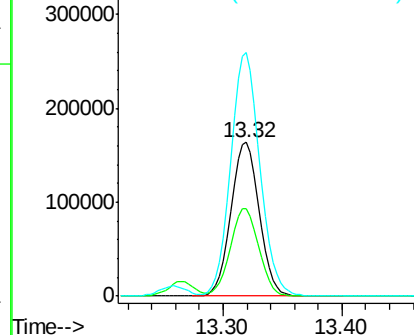
Lab File: VN061540.D

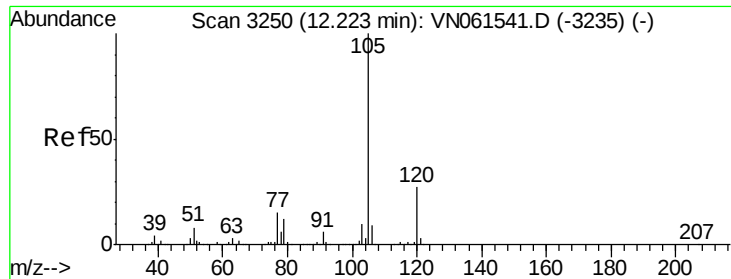
Acq: 28 May 2020 18:32

Tgt Ion:	152	Resp:	270054
Ion	Ratio	Lower	Upper
152	100		
115	57.1	28.0	84.0
150	163.2	0.0	344.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 17.763 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:105 Resp: 376957

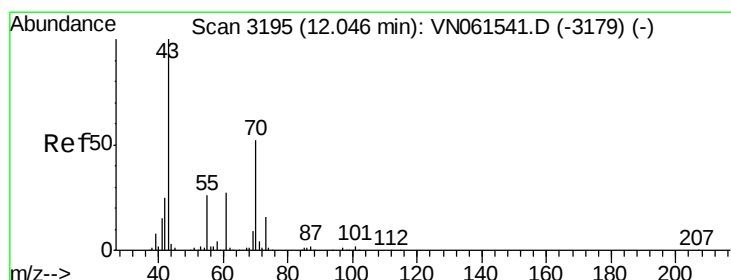
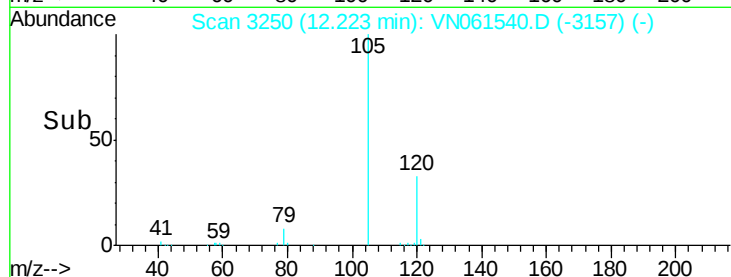
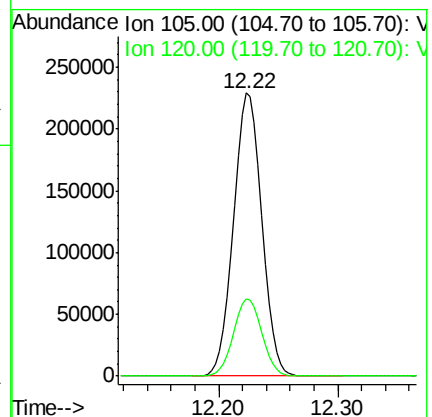
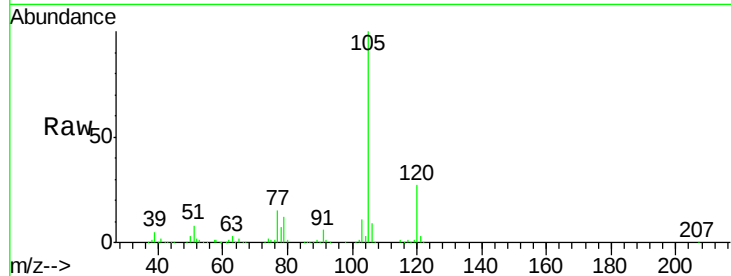
Ion Ratio Lower Upper

105 100

120 27.4 13.8 41.3

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#74

N-ethyl acetate

Concen: 15.592 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion: 43 Resp: 119159

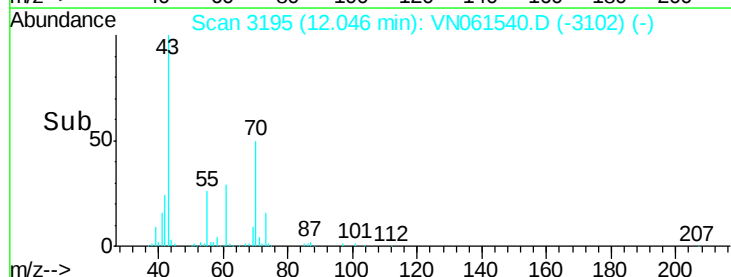
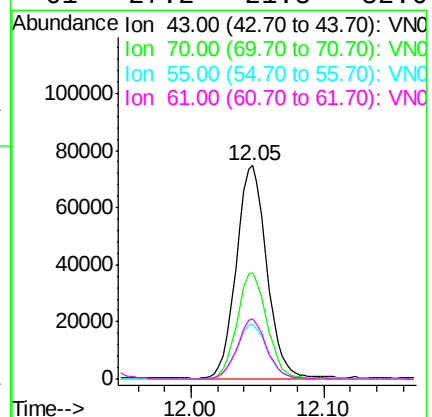
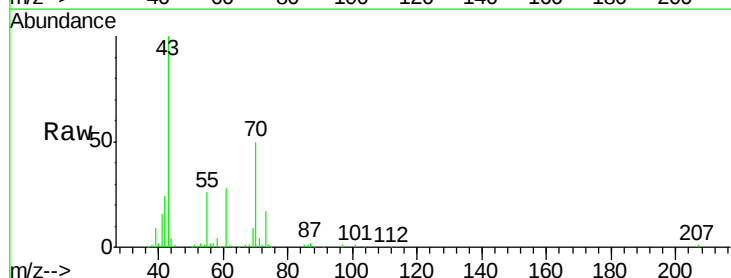
Ion Ratio Lower Upper

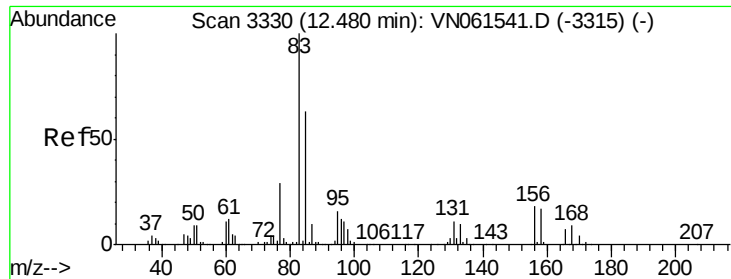
43 100

70 49.1 40.5 60.7

55 26.2 20.6 31.0

61 27.2 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 17.717 ug/l

RT: 12.48 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

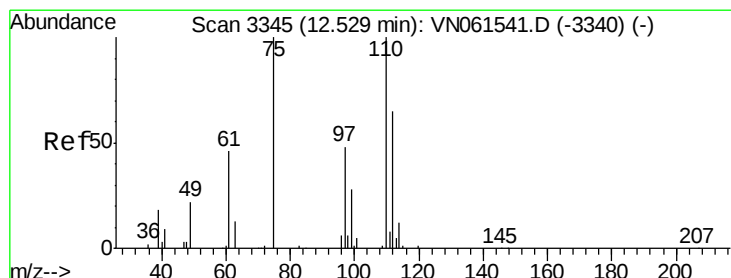
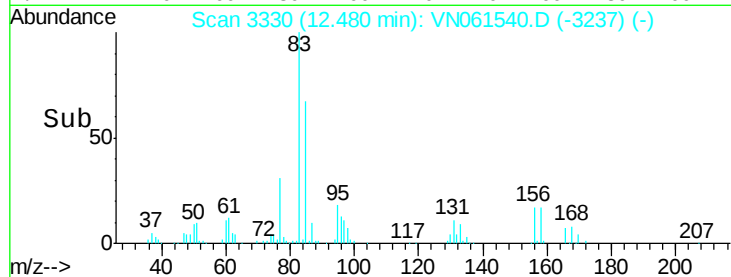
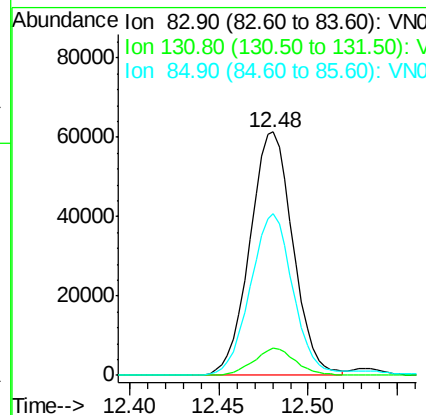
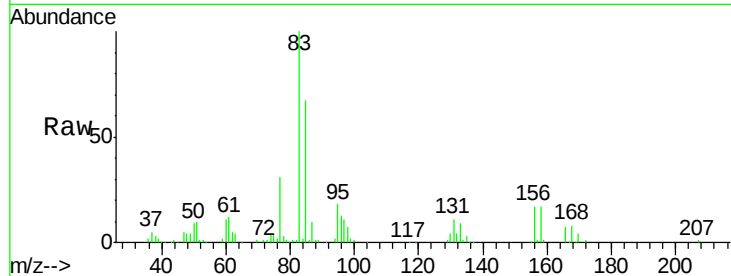
ClientSampled :

VSTDIC020

Tot Ion:	83	Resp:	103526
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.5	16.5
85	65.6	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#76

1,2,3-Trichloropropane

Concen: 16.067 ug/l m

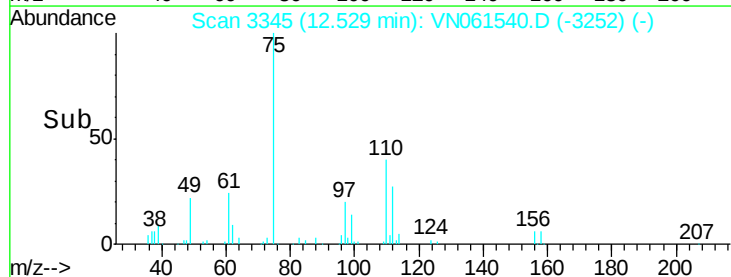
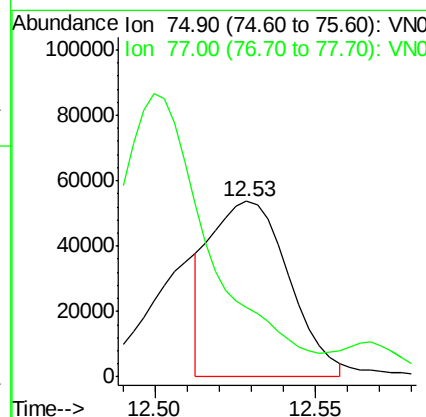
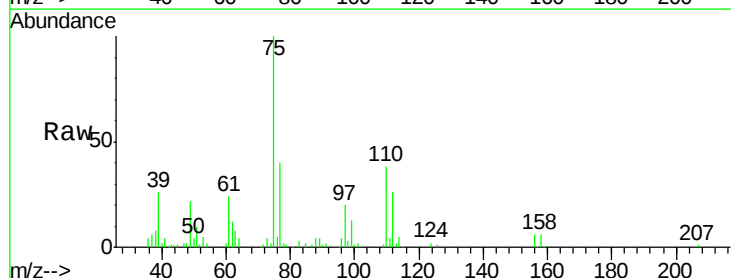
RT: 12.53 min Scan# 3345

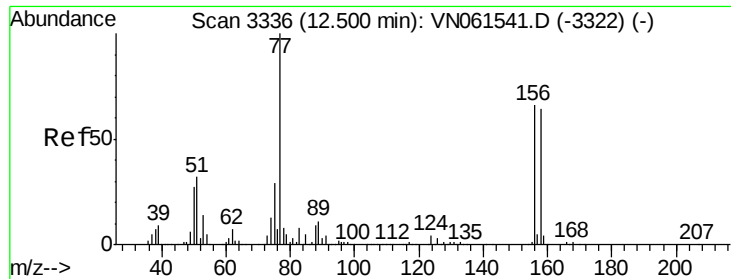
Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	75	Resp:	90330
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.272 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

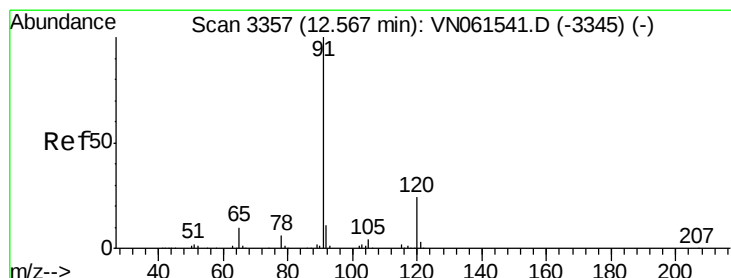
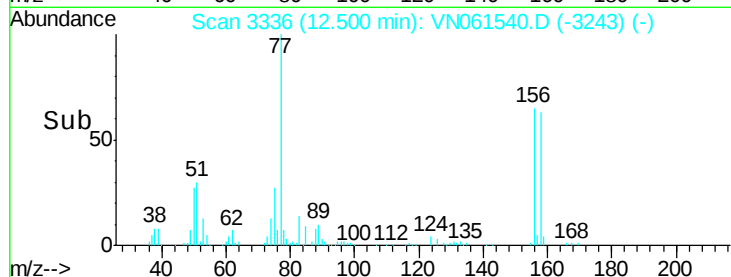
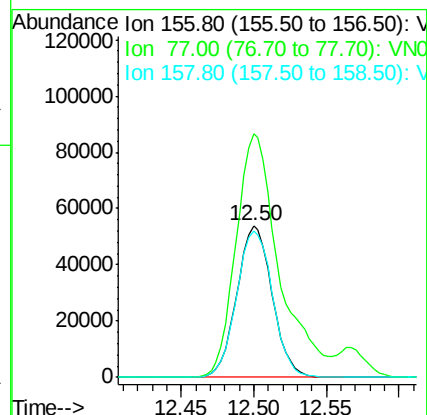
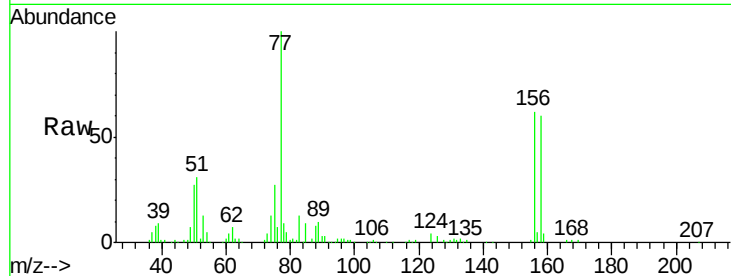
ClientSampled :

VSTDIC020

Tot Ion:	156	Resp:	91170
Ion	Ratio	Lower	Upper
156	100		
77	195.8	90.9	272.7
158	98.9	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#78

n-propylbenzene

Concen: 17.367 ug/l

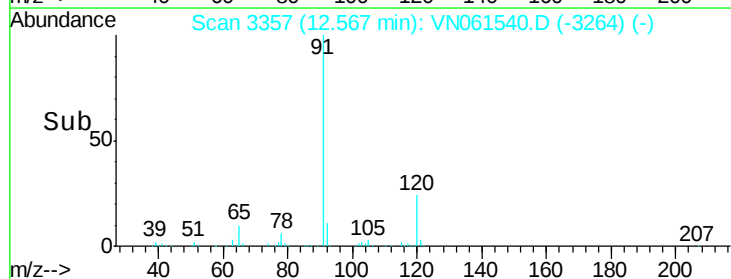
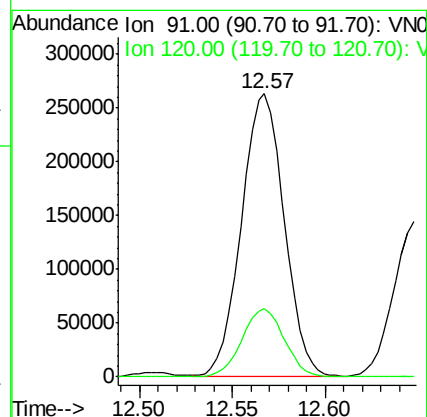
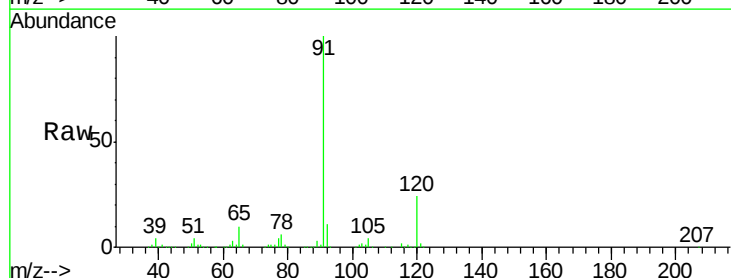
RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	91	Resp:	417459
Ion	Ratio	Lower	Upper
91	100		
120	24.1	12.3	36.9





#79

2-Chlorotoluene

Concen: 17.107 ug/l

RT: 12.65 min Scan# 3382

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 243946

Ion Ratio Lower Upper

91 100

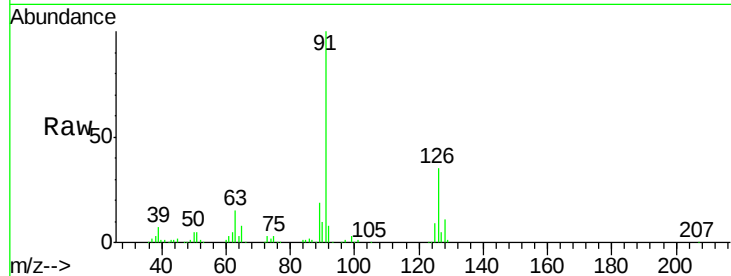
126 35.7 17.9 53.7

Manual Integrations

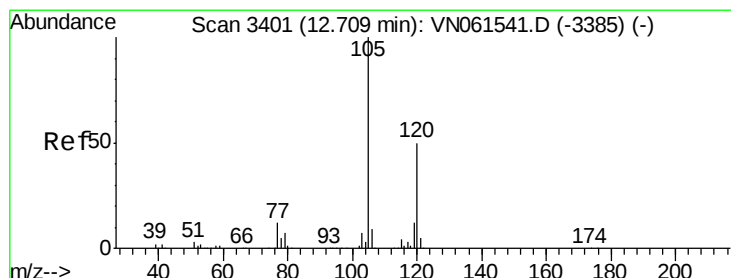
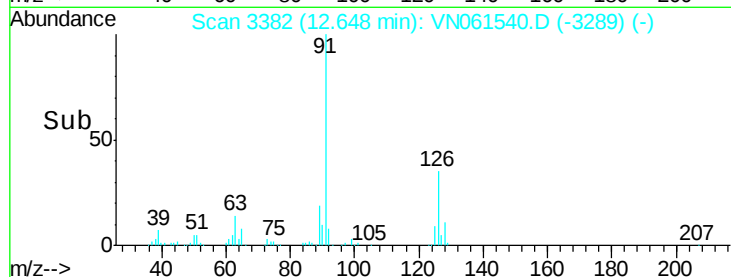
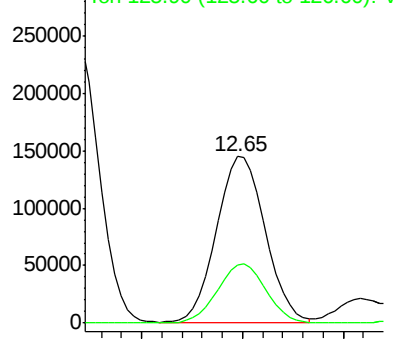
APPROVED

MMDadoda

5/29/2020 5:46:48 PM



Abundance Ion 91.00 (90.70 to 91.70): VN061541.D (-3370) (-)



#80

1,3,5-Trimethylbenzene

Concen: 18.127 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061540.D

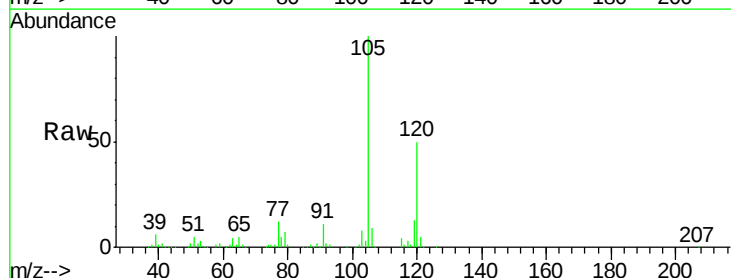
Acq: 28 May 2020 18:32

Tgt Ion: 105 Resp: 315238

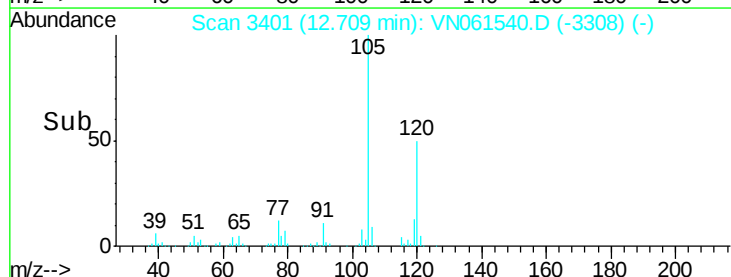
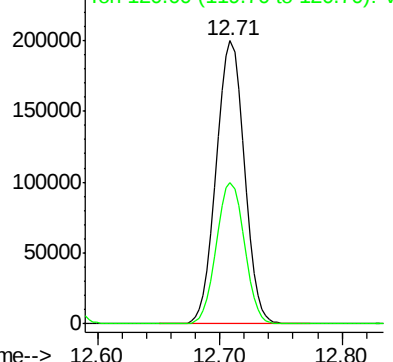
Ion Ratio Lower Upper

105 100

120 50.1 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN061541.D (-3385) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 16.543 ug/l

RT: 12.27 min Scan# 3266

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

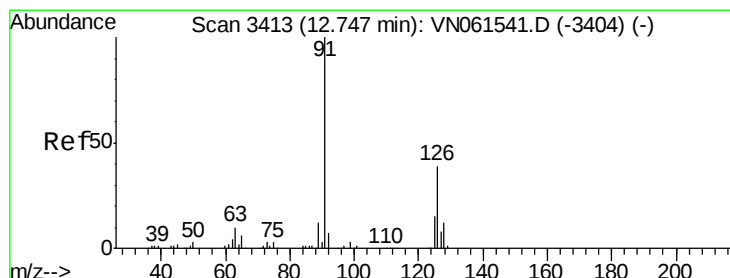
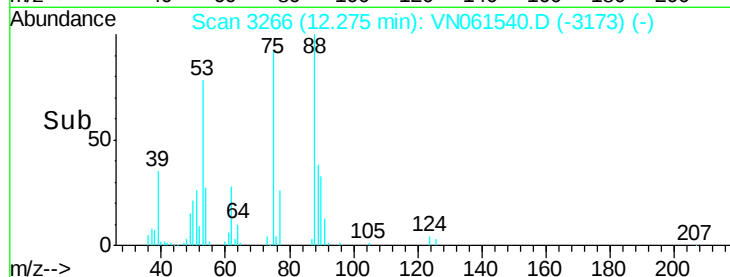
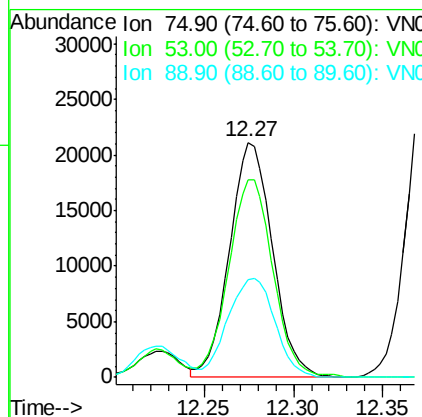
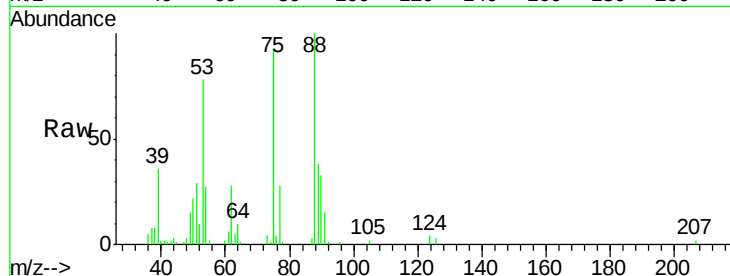
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	35340
Ion	Ratio	Lower	Upper
75	100		
53	87.1	67.8	101.8
89	46.3	37.1	55.7

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#82

4-Chlorotoluene

Concen: 17.312 ug/l

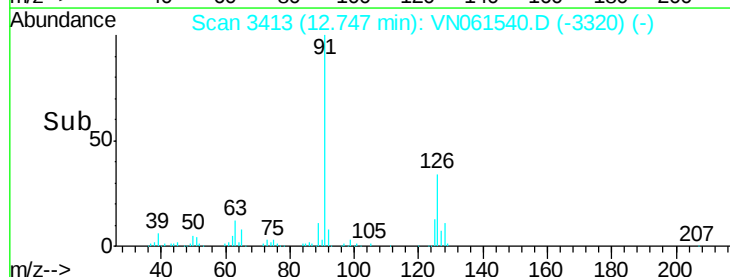
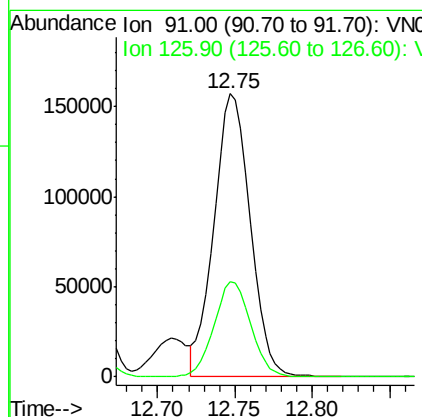
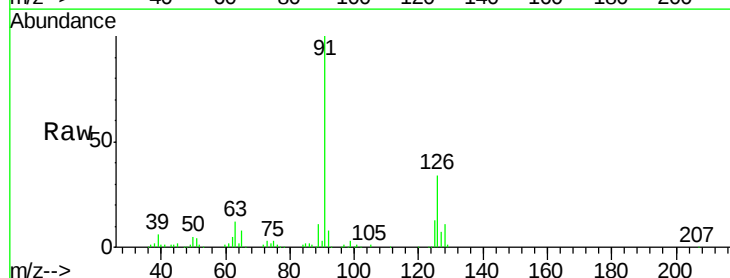
RT: 12.75 min Scan# 3413

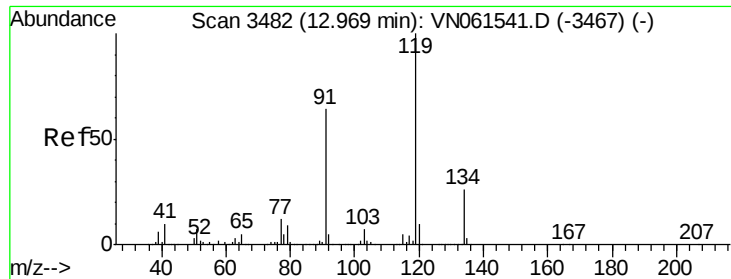
Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:	91	Resp:	255551
Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.5	52.6





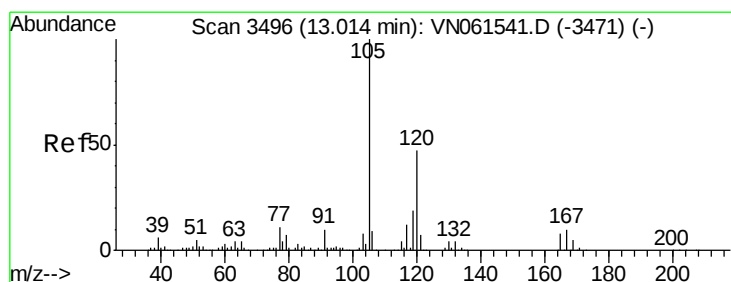
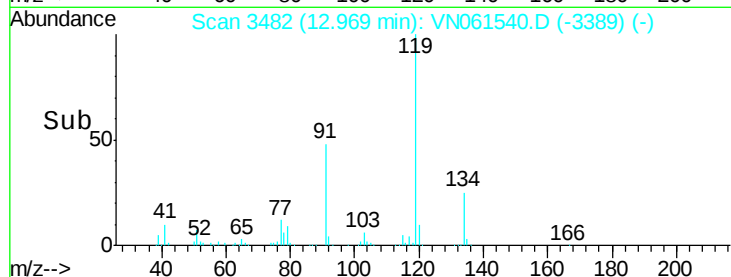
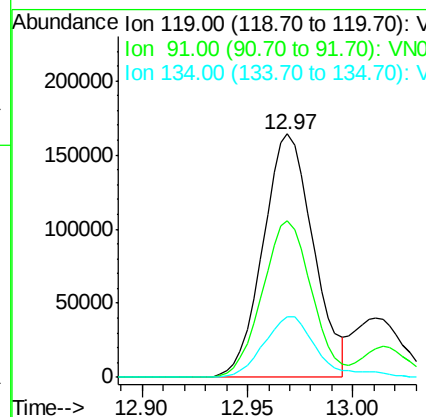
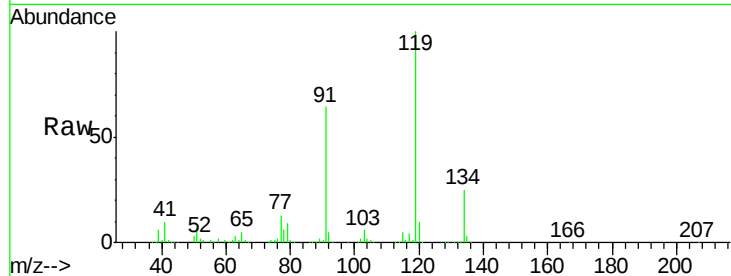
#83
 tert-Butylbenzene
 Concen: 18.224 ug/l
 RT: 12.97 min Scan# 3482
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	272261		
91	63.4		31.3	93.8
134	26.6		13.5	40.4

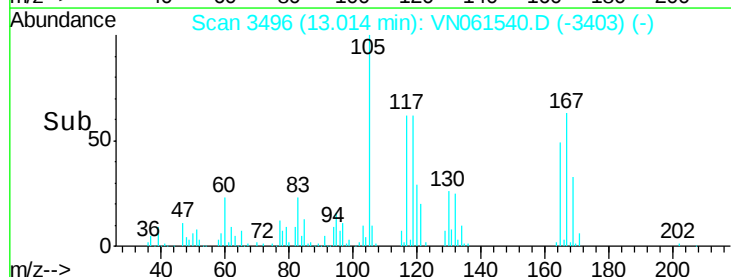
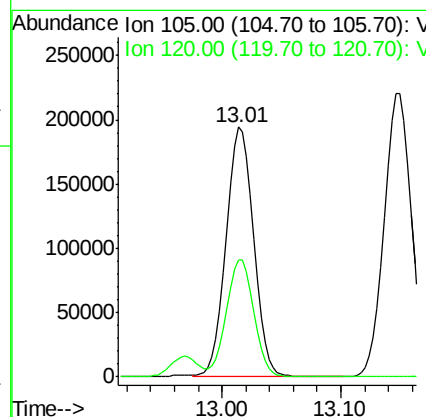
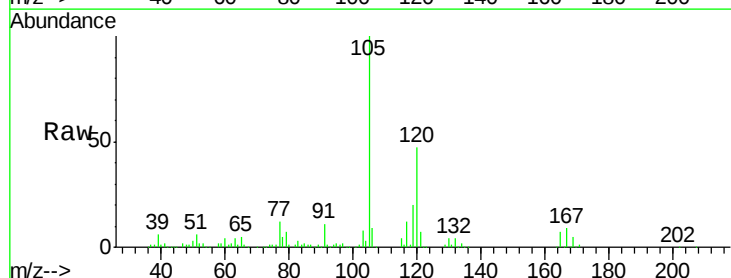
Manual Integrations
 APPROVED

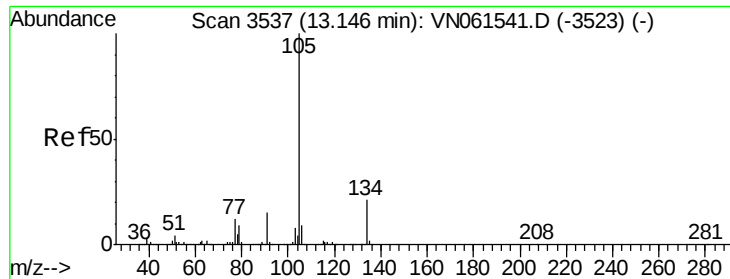
MMDadoda
 5/29/2020 5:46:48 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 17.992 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	313083		
120	46.5		23.2	69.5





#85

sec-Butylbenzene

Concen: 17.659 ug/l

RT: 13.15 min Scan# 3537

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 354335

Ion Ratio Lower Upper

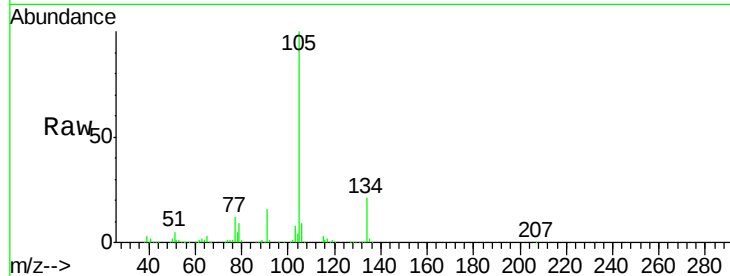
105 100

134 20.8 10.7 31.9

Manual Integrations
APPROVED

MMDadoda

5/29/2020 5:46:48 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

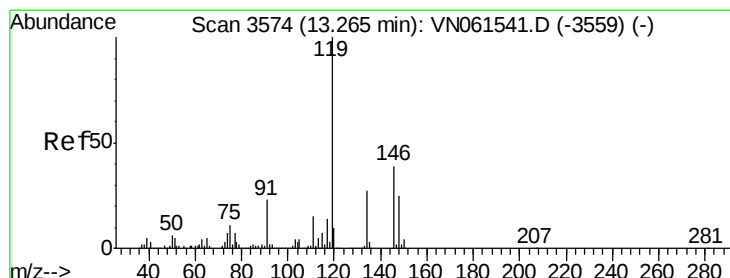
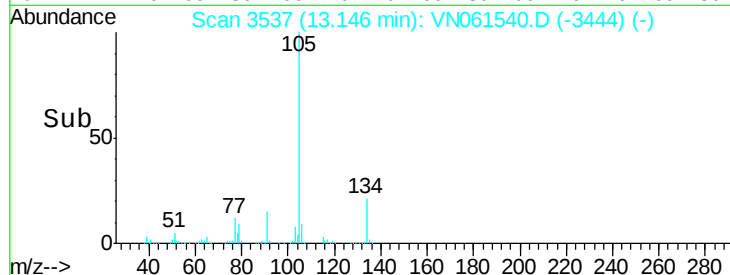
100000

50000

0

13.10 13.15 13.20

Time-->



#86

p-Isopropyltoluene

Concen: 18.219 ug/l

RT: 13.26 min Scan# 3574

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

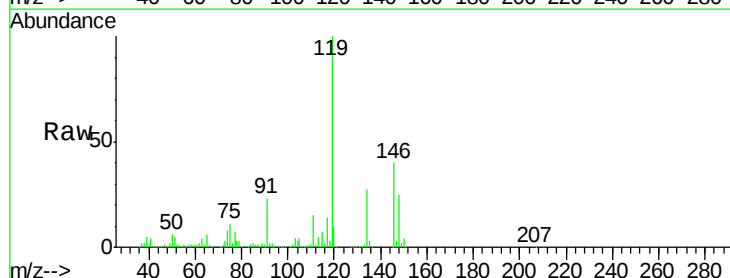
Tgt Ion:119 Resp: 326579

Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.5

91 23.2 11.4 34.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

250000

200000

150000

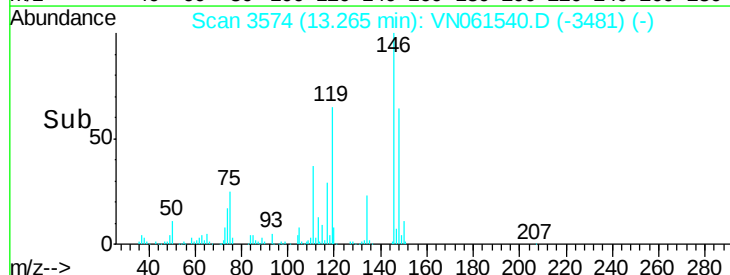
100000

50000

0

13.20 13.30 13.40

Time-->





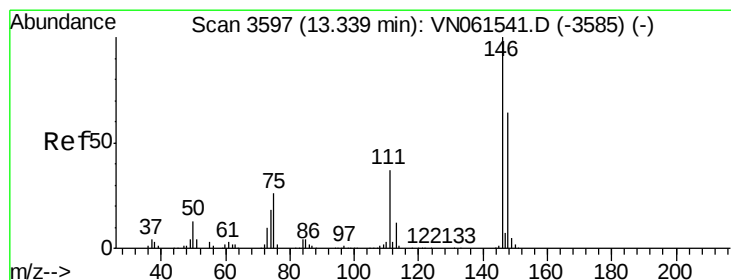
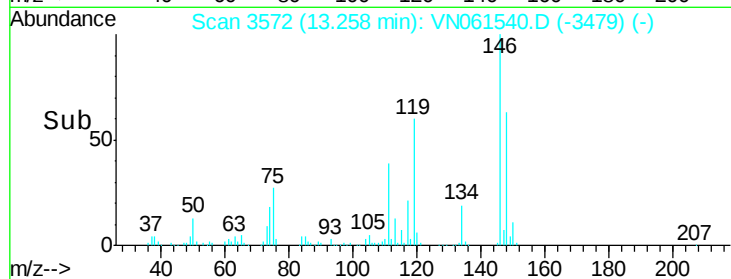
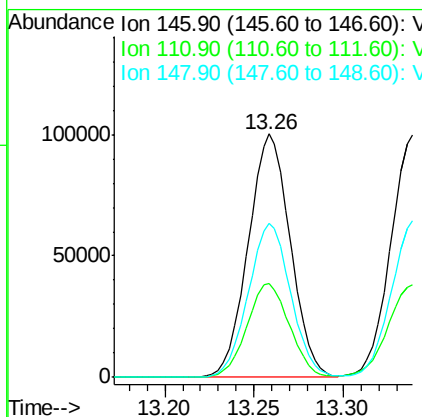
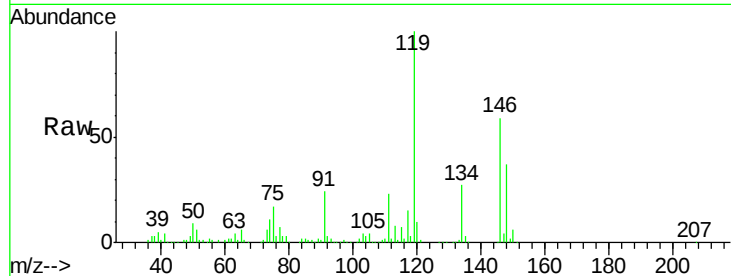
#87
 1,3-Dichlorobenzene
 Concen: 19.268 ug/l
 RT: 13.26 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	165473		
111	38.9	19.2	57.6	
148	63.7	31.7	95.1	

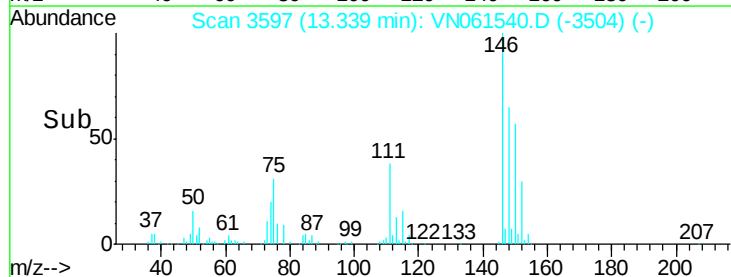
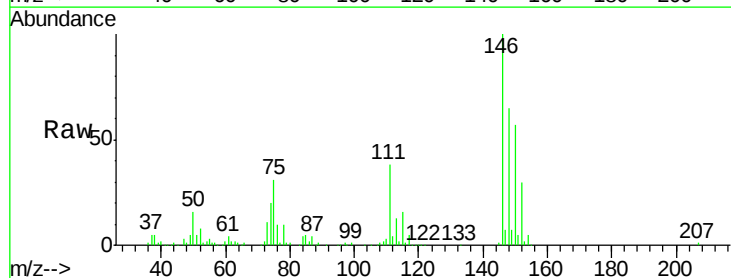
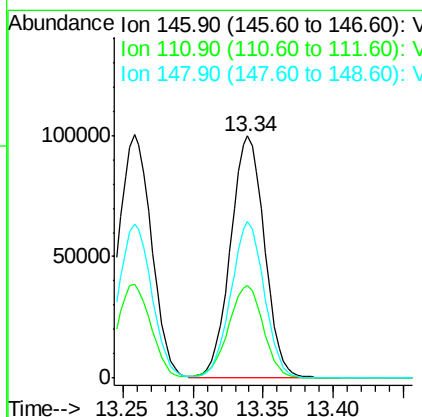
Manual Integrations
 APPROVED

MMDadoda
 5/29/2020 5:46:48 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.503 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	167691		
111	40.0	18.9	56.9	
148	63.8	31.8	95.3	





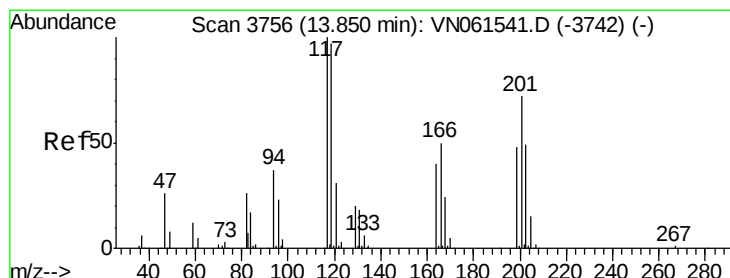
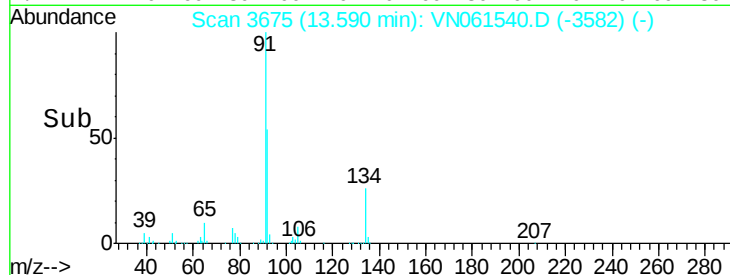
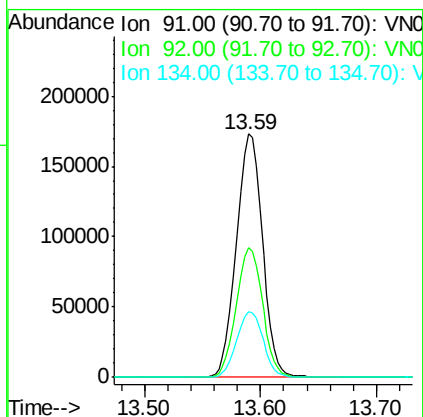
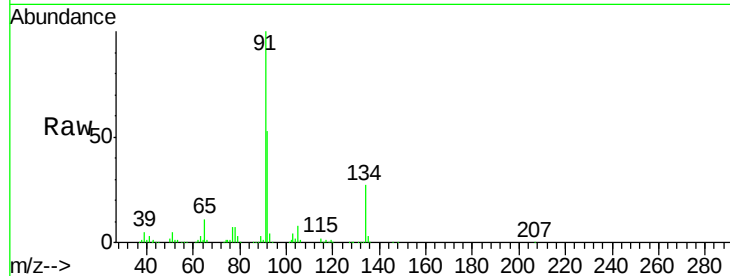
#89
n-Butylbenzene
Concen: 16.871 ug/l
RT: 13.59 min Scan# 3675
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.2	81.6
134	27.3	14.0	42.0

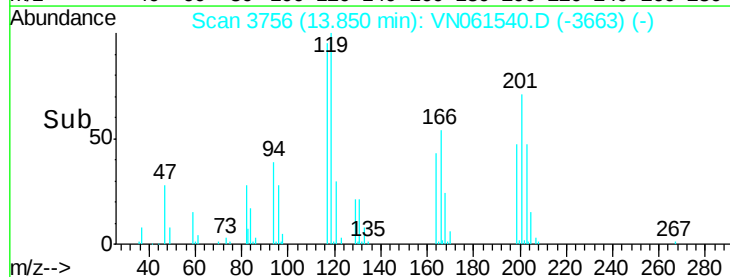
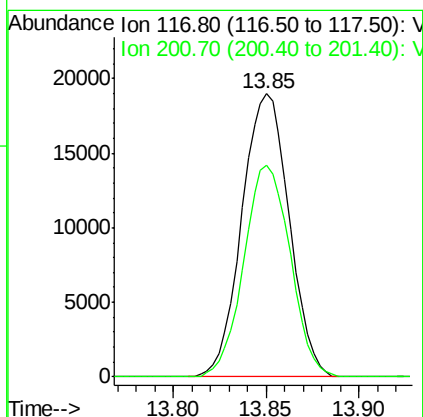
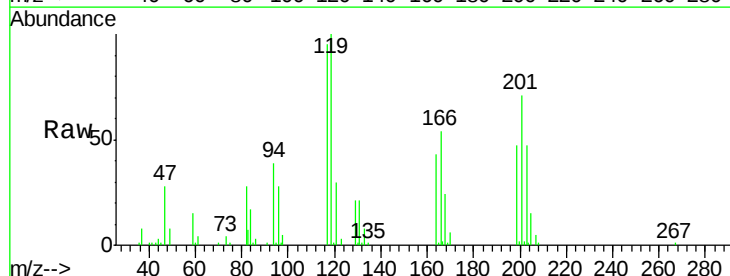
Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#90
Hexachloroethane
Concen: 14.384 ug/l
RT: 13.85 min Scan# 3756
Delta R.T. 0.00 min
Lab File: VN061540.D
Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
117	100		
201	73.4	36.7	110.1





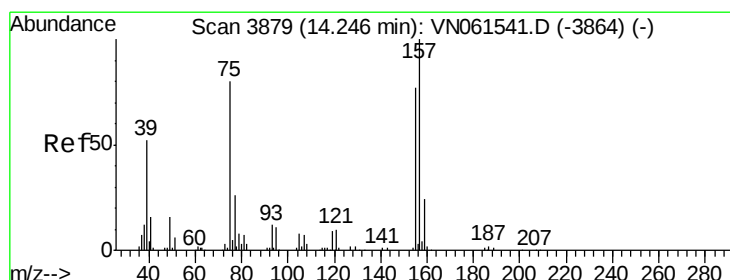
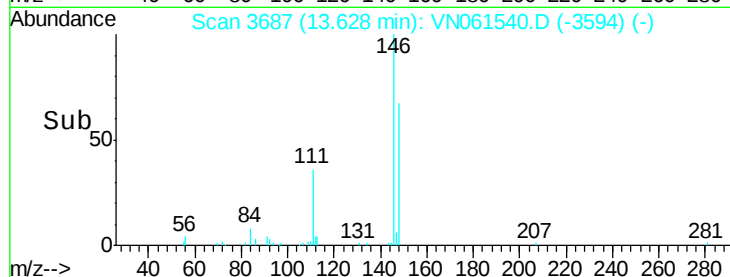
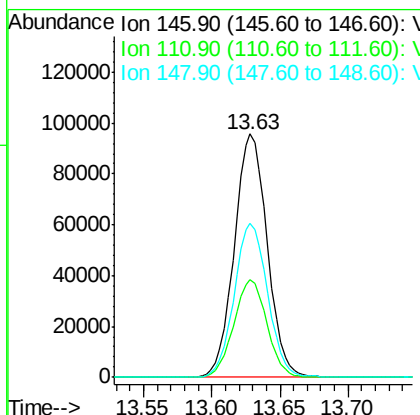
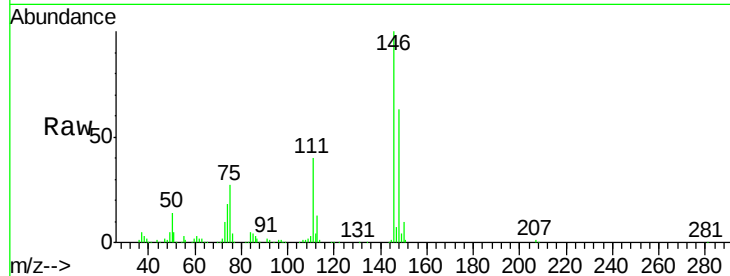
#91
 1,2-Dichlorobenzene
 Concen: 19.461 ug/l
 RT: 13.63 min Scan# 3687
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.1	60.2
148	64.2	31.9	95.5

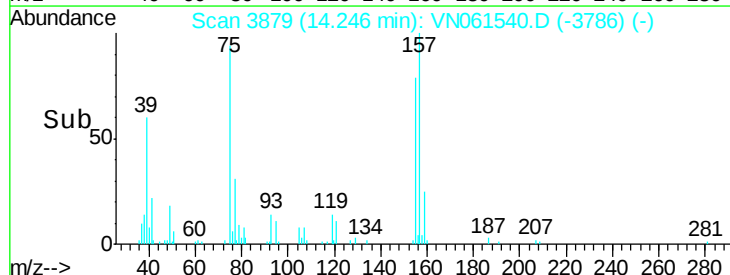
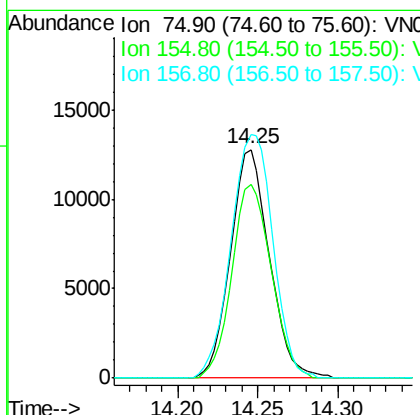
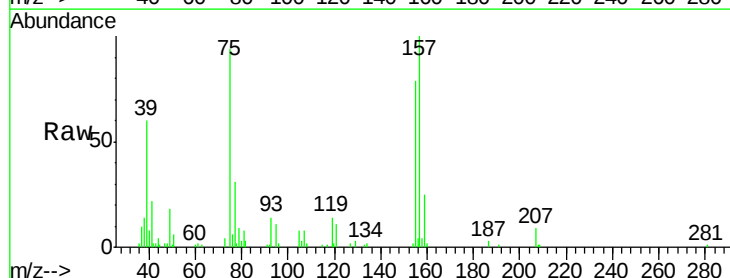
Manual Integrations
 APPROVED

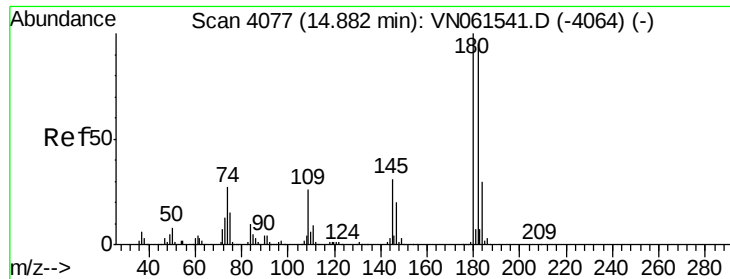
MMDadoda
 5/29/2020 5:46:48 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.897 ug/l
 RT: 14.25 min Scan# 3879
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.9	47.1	141.4
157	114.9	60.3	180.8





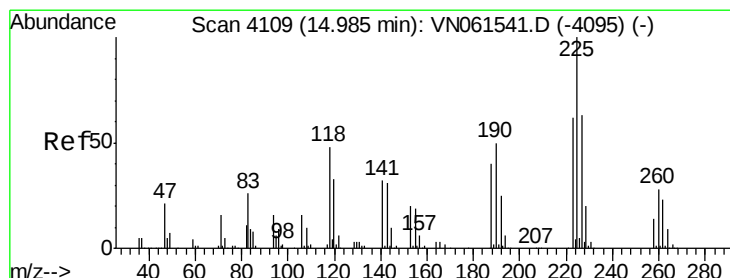
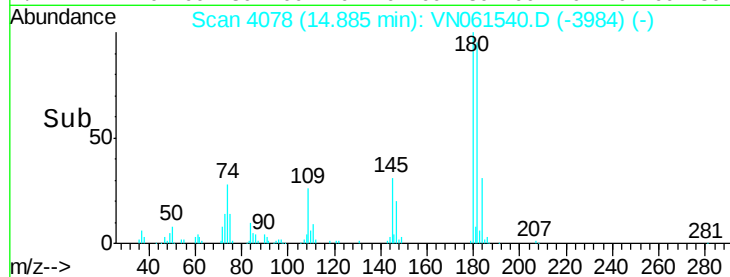
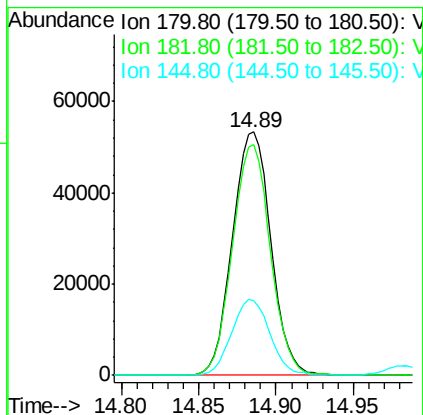
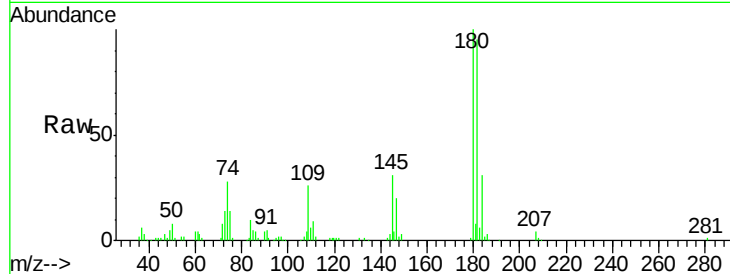
#93
 1,2,4-Trichlorobenzene
 Concen: 20.424 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.5	47.8	143.3
145	31.0	15.5	46.5

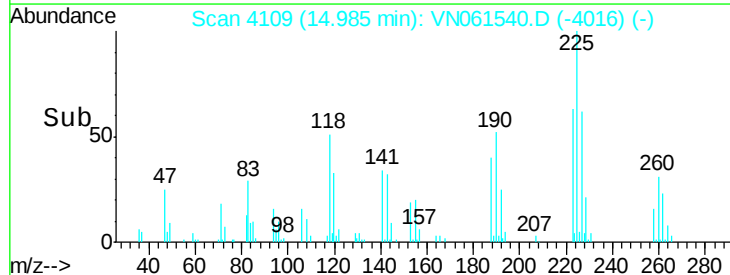
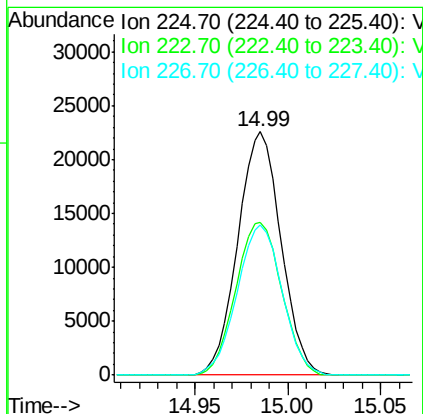
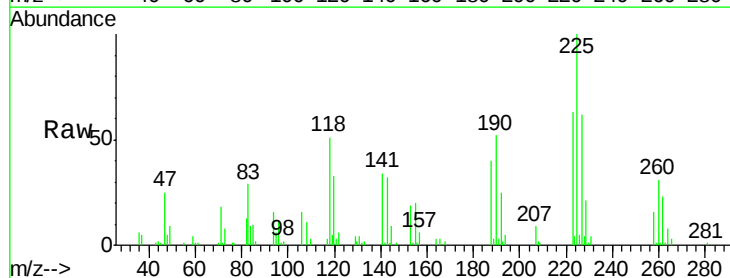
Manual Integrations
 APPROVED

MMDadoda
 5/29/2020 5:46:48 PM



#94
 Hexachlorobutadiene
 Concen: 18.461 ug/l
 RT: 14.99 min Scan# 4109
 Delta R.T. 0.00 min
 Lab File: VN061540.D
 Acq: 28 May 2020 18:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.3	31.9	95.5
227	64.0	31.9	95.9





#95

Naphthalene

Concen: 20.185 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Instrument :

MSVOA_N

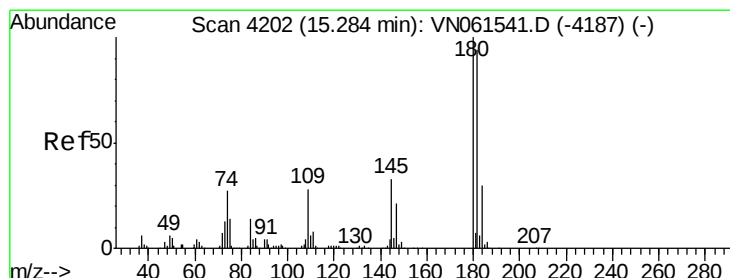
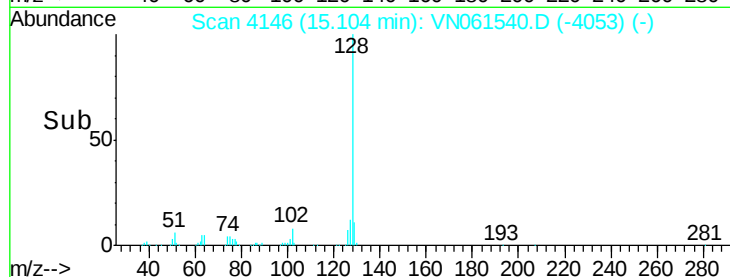
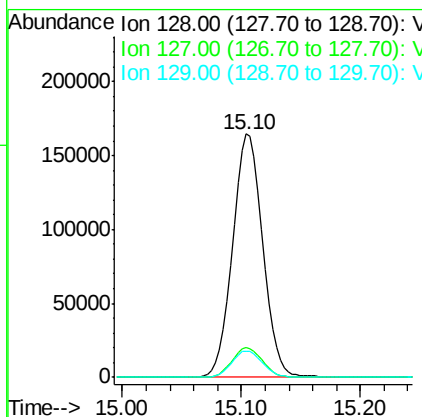
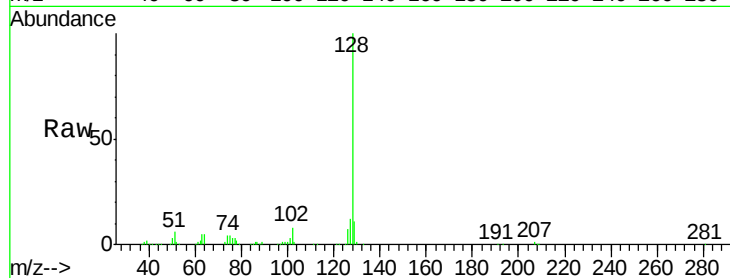
ClientSampled :

VSTDIC020

Tot Ion:128	Resp:	288441
Ion Ratio	Lower	Upper
128 100		
127 12.5	10.0	15.0
129 10.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
5/29/2020 5:46:48 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.365 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. 0.00 min

Lab File: VN061540.D

Acq: 28 May 2020 18:32

Tgt Ion:180	Resp:	91721
Ion Ratio	Lower	Upper
180 100		
182 95.2	47.1	141.3
145 33.7	16.3	48.9

