

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
 Data File : VN055591.D
 Acq On : 14 May 2019 13:37
 Operator : JC/SP
 Sample : VSTDICV050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051419

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 1:31:58 PM

Quant Time: May 15 07:46:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 07:28:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	744194	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1265658	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1093241	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	461051	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	516846	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
35) Dibromofluoromethane	7.59	113	410960	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	
50) Toluene-d8	10.09	98	1613160	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	
62) 4-Bromofluorobenzene	12.40	95	535470	53.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	356904	46.994	ug/l	99
3) Chloromethane	2.06	50	544451	46.080	ug/l	99
4) Vinyl Chloride	2.19	62	539953	46.889	ug/l	99
5) Bromomethane	2.54	94	330377	49.122	ug/l	99
6) Chloroethane	2.69	64	327777	46.960	ug/l	100
7) Trichlorofluoromethane	3.01	101	611456	47.637	ug/l	97
8) Diethyl Ether	3.41	74	271318	47.309	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	386559	47.840	ug/l	99
10) Methyl Iodide	3.94	142	525663	51.023	ug/l	99
11) Tert butyl alcohol	4.81	59	337482	252.672	ug/l	99
12) 1,1-Dichloroethene	3.73	96	403439	49.862	ug/l	100
13) Acrolein	3.60	56	305061	227.639	ug/l	99
14) Allyl chloride	4.32	41	773490	49.620	ug/l	99
15) Acrylonitrile	4.99	53	1107506	246.928	ug/l	99
16) Acetone	3.82	43	1126096	236.833	ug/l	100
17) Carbon Disulfide	4.04	76	1142929	49.295	ug/l	100
18) Methyl Acetate	4.33	43	460459	51.695	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1275555	50.498	ug/l	99
20) Methylene Chloride	4.55	84	474192	47.383	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	429218	48.803	ug/l	98
22) Diisopropyl ether	5.95	45	1581397	50.509	ug/l	99
23) Vinyl Acetate	5.90	43	6246149	266.255	ug/l	100
24) 1,1-Dichloroethane	5.84	63	852704	49.038	ug/l	99
25) 2-Butanone	6.84	43	1553442	249.282	ug/l	100
26) 2,2-Dichloropropane	6.82	77	579534	51.603	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	495144	48.597	ug/l	99
28) Bromochloromethane	7.19	49	406827	48.170	ug/l	98
29) Tetrahydrofuran	7.21	42	990281	245.125	ug/l	99
30) Chloroform	7.37	83	792814	48.721	ug/l	99
31) Cyclohexane	7.65	56	829892	47.960	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	625538	49.644	ug/l	100
36) 1,1-Dichloropropene	7.79	75	625199	49.683	ug/l	99
37) Ethyl Acetate	6.93	43	594972	50.462	ug/l	100
38) Carbon Tetrachloride	7.77	117	524343	50.191	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
 Data File : VN055591.D
 Acq On : 14 May 2019 13:37
 Operator : JC/SP
 Sample : VSTDICV050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051419

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 1:31:58 PM

Quant Time: May 15 07:46:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 07:28:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	736946	49.730	ug/l	99
40) Benzene	8.04	78	1899458	49.428	ug/l	99
41) Methacrylonitrile	7.17	41	281188	52.318	ug/l	96
42) 1,2-Dichloroethane	8.12	62	625975	48.845	ug/l	99
43) Isopropyl Acetate	8.17	43	952476	51.510	ug/l	99
44) Trichloroethene	8.83	130	456368	49.379	ug/l	100
45) 1,2-Dichloropropane	9.12	63	525340	49.600	ug/l	99
46) Dibromomethane	9.21	93	304951	48.750	ug/l	99
47) Bromodichloromethane	9.40	83	597697	50.125	ug/l	97
48) Methyl methacrylate	9.20	41	452282	50.069	ug/l	98
49) 1,4-Dioxane	9.20	88	162884	986.645	ug/l	100
51) 4-Methyl-2-Pentanone	9.98	43	2921278	251.438	ug/l	100
52) Toluene	10.15	92	1111456	50.482	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	626648	54.817	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	748126	54.502	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	428251	48.652	ug/l	98
56) Ethyl methacrylate	10.43	69	651952	53.150	ug/l	99
57) 1,3-Dichloropropane	10.71	76	764177	50.221	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	904207	239.116	ug/l	100
59) 2-Hexanone	10.75	43	2072043	258.526	ug/l	100
60) Dibromochloromethane	10.90	129	422122	52.722	ug/l	99
61) 1,2-Dibromoethane	11.00	107	428173	51.486	ug/l	99
64) Tetrachloroethene	10.63	164	418839	47.962	ug/l	99
65) Chlorobenzene	11.43	112	1126929	49.674	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	396609	50.999	ug/l	99
67) Ethyl Benzene	11.51	91	2091547	51.404	ug/l	99
68) m/p-Xylenes	11.62	106	1537431	103.375	ug/l	99
69) o-Xylene	11.95	106	747079	51.619	ug/l	100
70) Styrene	11.96	104	1247188	54.186	ug/l	100
71) Bromoform	12.13	173	277636	54.771	ug/l #	98
73) Isopropylbenzene	12.25	105	1964669	43.603	ug/l	100
74) N-amyl acetate	12.07	43	781004	49.118	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	598406	51.333	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	527302m	46.225	ug/l	
77) Bromobenzene	12.52	156	456581	50.825	ug/l	99
78) n-propylbenzene	12.59	91	2256284	46.966	ug/l	100
79) 2-Chlorotoluene	12.67	91	1355719	44.365	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1656329	46.506	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	156711	48.863	ug/l	97
82) 4-Chlorotoluene	12.77	91	1334829	47.024	ug/l	100
83) tert-Butylbenzene	12.99	119	1370847	44.342	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1599116	48.618	ug/l	100
85) sec-Butylbenzene	13.17	105	1843360	46.297	ug/l	100
86) p-Isopropyltoluene	13.29	119	1583266	49.042	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	777439	48.722	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	756478	48.185	ug/l	99
89) n-Butylbenzene	13.61	91	1273319	53.458	ug/l	100
90) Hexachloroethane	13.87	117	249101	49.866	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	769485	48.255	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	94099	48.904	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
Data File : VN055591.D
Acq On : 14 May 2019 13:37
Operator : JC/SP
Sample : VSTDICV050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM

Quant Time: May 15 07:46:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
Quant Title : SW846 8260
QLast Update : Wed May 15 07:28:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	328384	50.581	ug/l	100
94) Hexachlorobutadiene	15.01	225	238421	54.514	ug/l	98
95) Naphthalene	15.13	128	902984	52.119	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	347244	50.398	ug/l	99

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

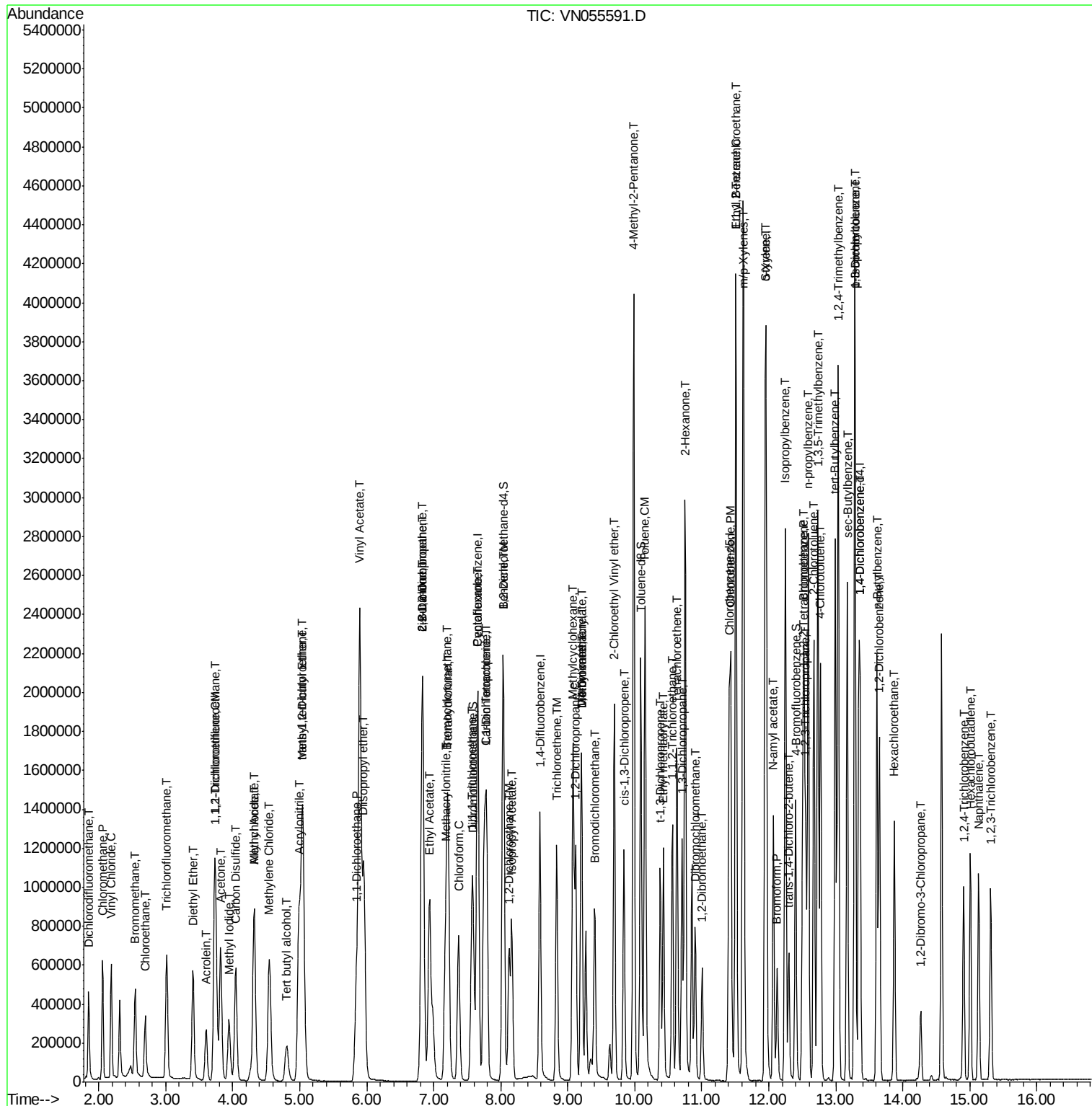
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN051419\
Data File : VN055591.D
Acq On : 14 May 2019 13:37
Operator : JC/SP
Sample : VSTDICV050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 1

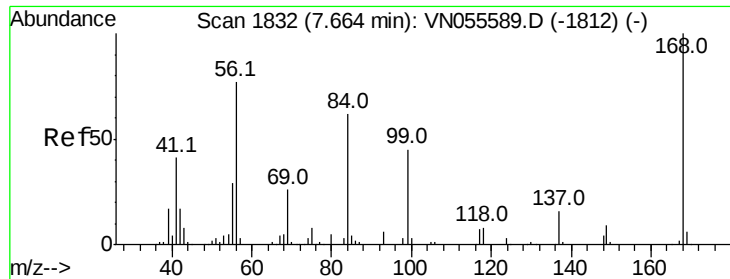
Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM

Quant Time: May 15 07:46:54 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
Quant Title : SW846 8260
QLast Update : Wed May 15 07:28:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion:168 Resp: 744194

Ion Ratio Lower Upper

168 100

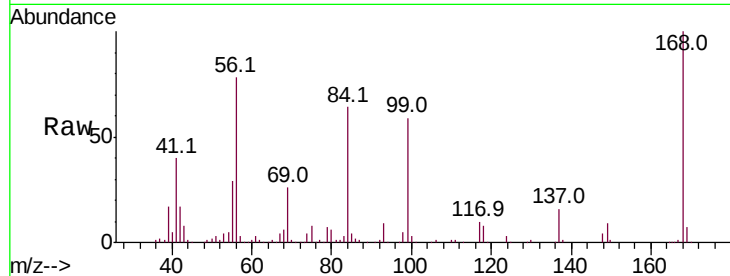
99 58.1 44.6 66.8

Manual Integrations

APPROVED

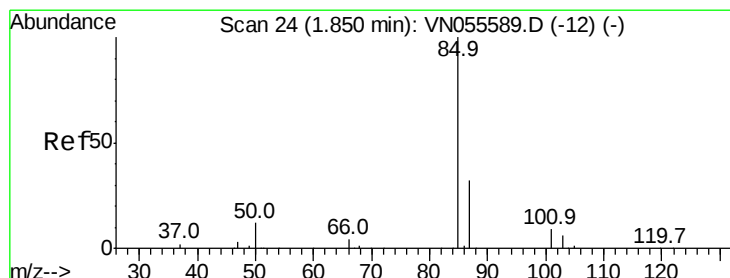
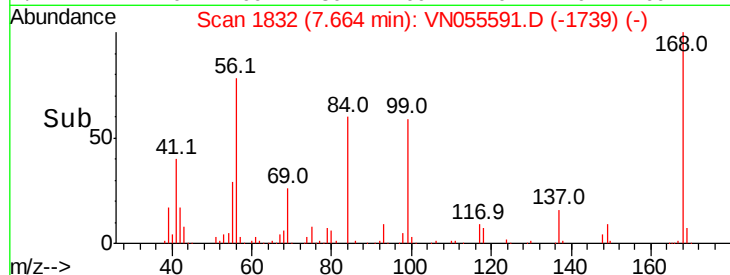
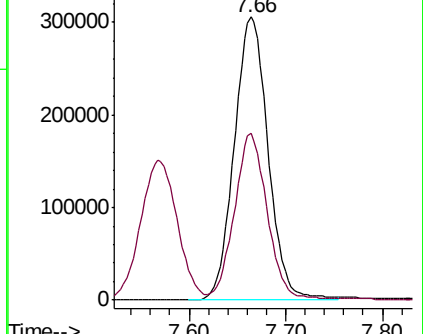
MMDadoda

5/16/2019 1:31:58 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 46.994 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055591.D

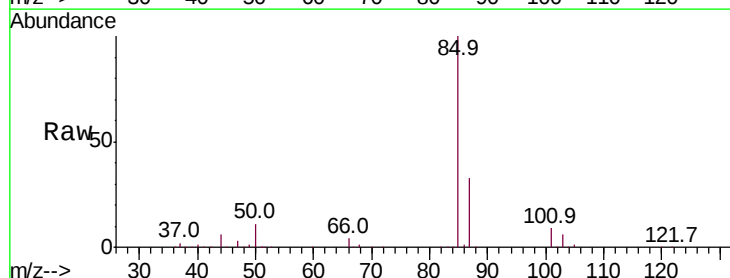
Acq: 14 May 2019 13:37

Tgt Ion: 85 Resp: 356904

Ion Ratio Lower Upper

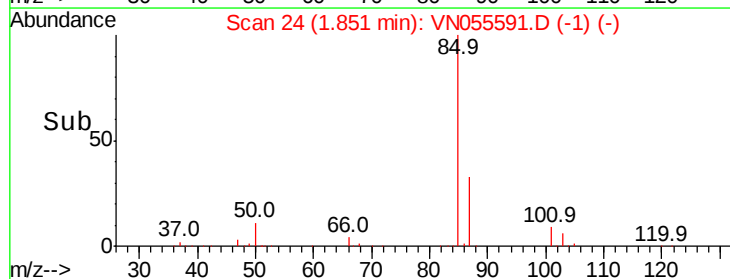
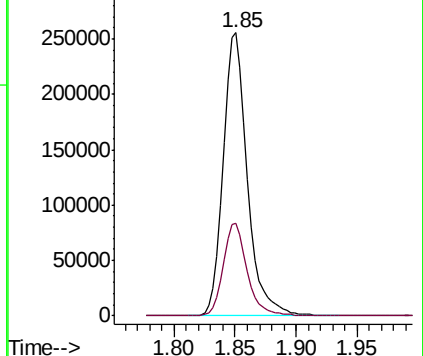
85 100

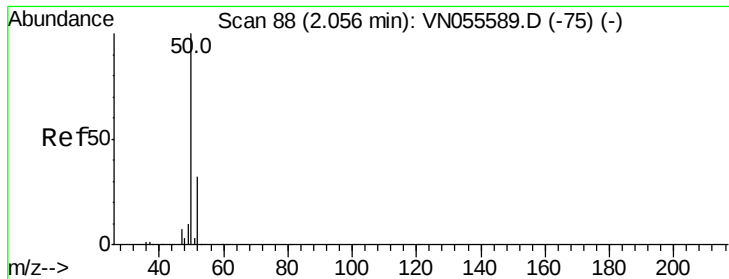
87 32.6 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 46.080 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 50 Resp: 544451

Ion Ratio Lower Upper

50 100

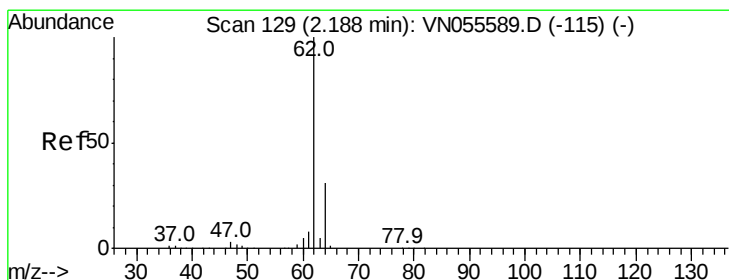
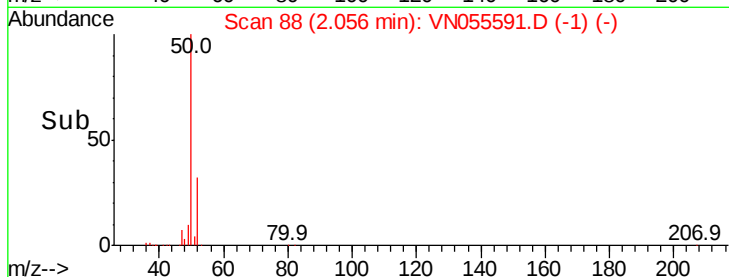
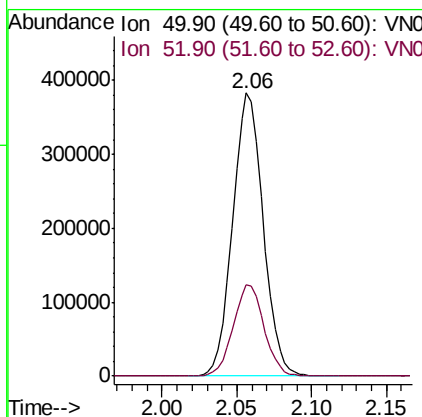
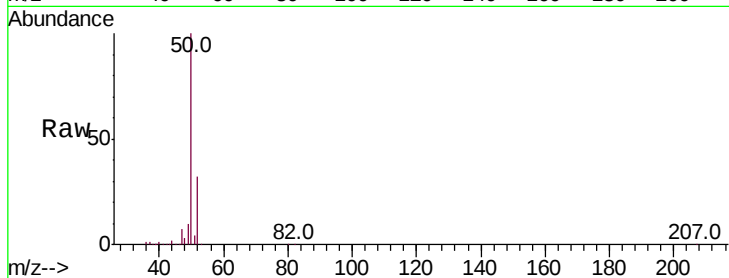
52 32.2 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:31:58 PM



#4

Vinyl Chloride

Concen: 46.889 ug/l

RT: 2.19 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN055591.D

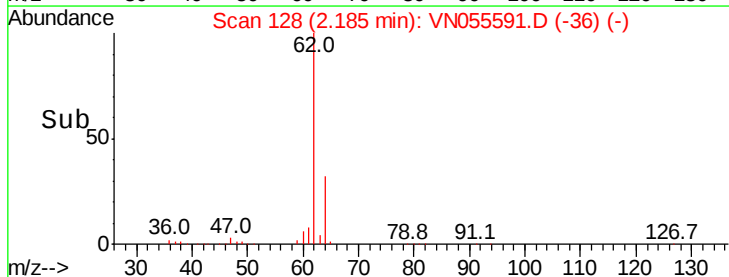
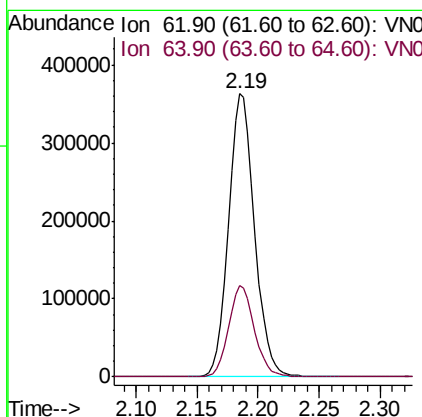
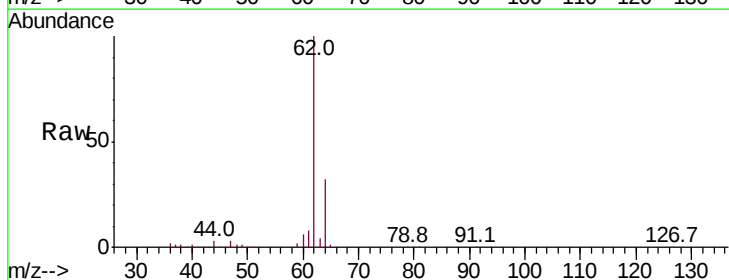
Acq: 14 May 2019 13:37

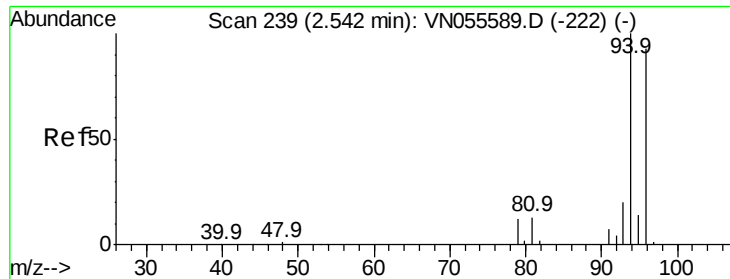
Tgt Ion: 62 Resp: 539953

Ion Ratio Lower Upper

62 100

64 32.1 25.1 37.7





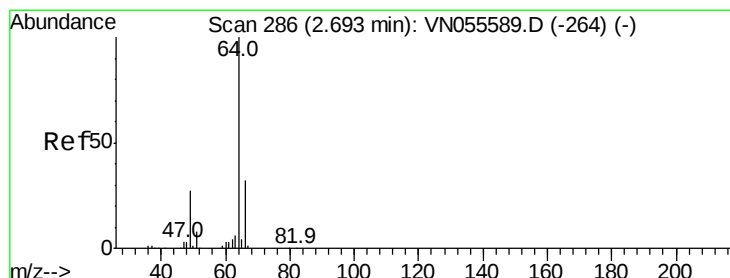
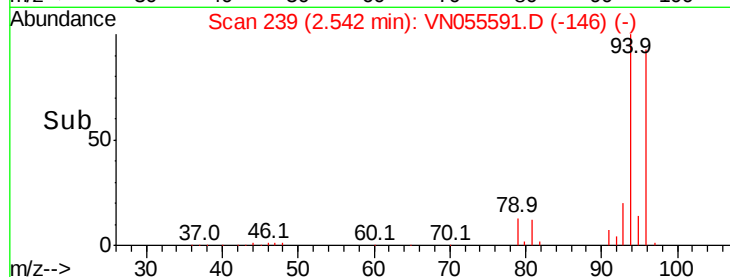
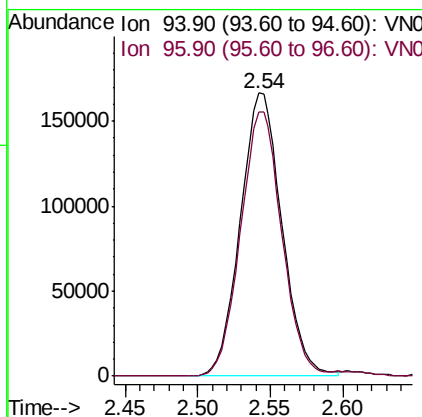
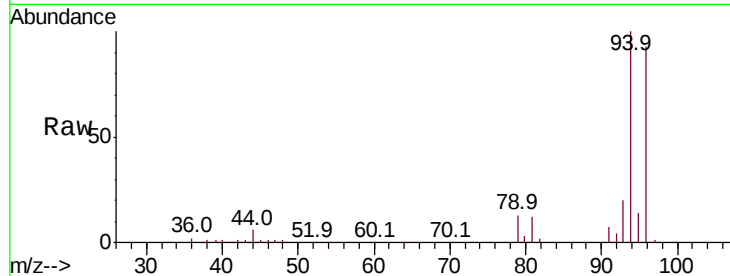
#5
Bromomethane
Concen: 49.122 ug/l
RT: 2.54 min Scan# 239
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.0	111.0

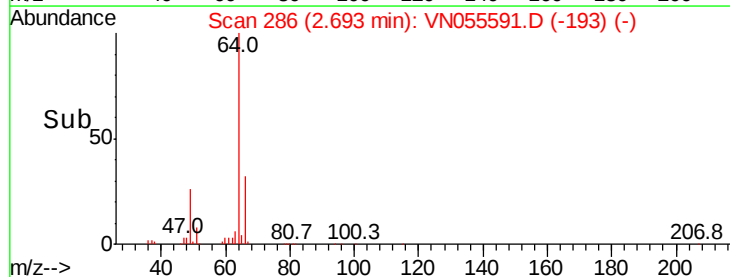
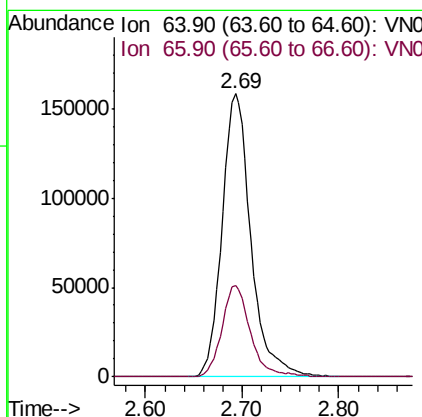
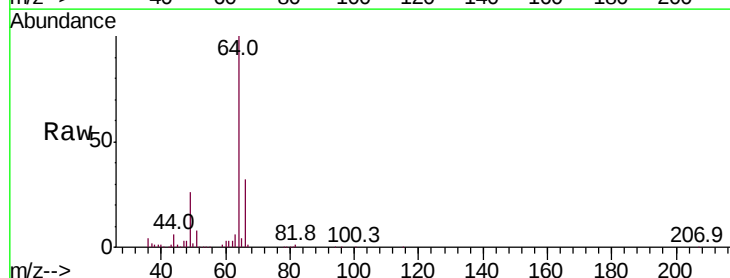
Manual Integrations
APPROVED

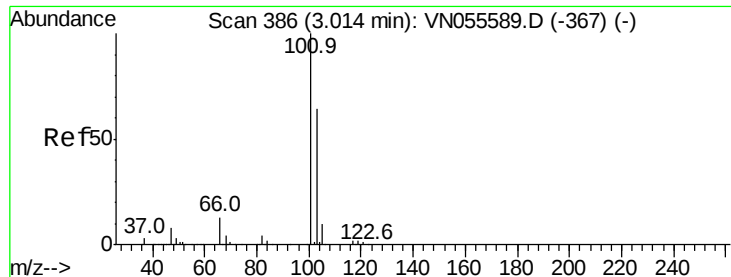
MMDadoda
5/16/2019 1:31:58 PM



#6
Chloroethane
Concen: 46.960 ug/l
RT: 2.69 min Scan# 286
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
64	100		
66	32.3	25.8	38.6





#7

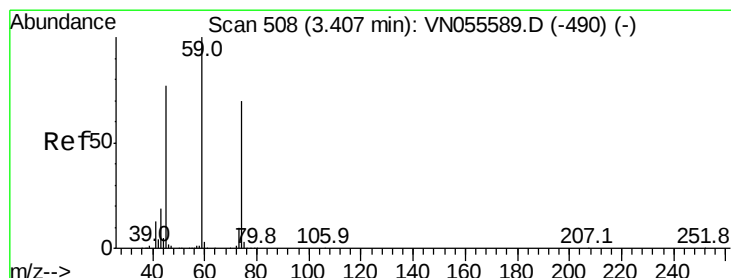
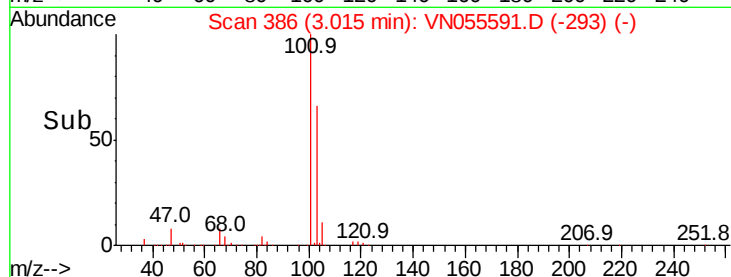
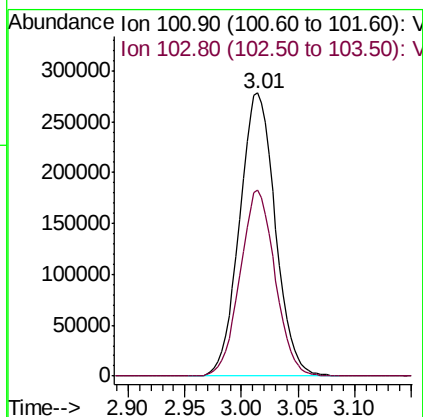
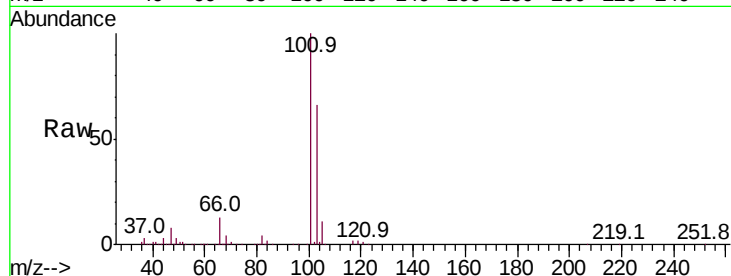
Trichlorofluoromethane
 Concen: 47.637 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051419

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	51.0	76.6

Manual Integrations
 APPROVED

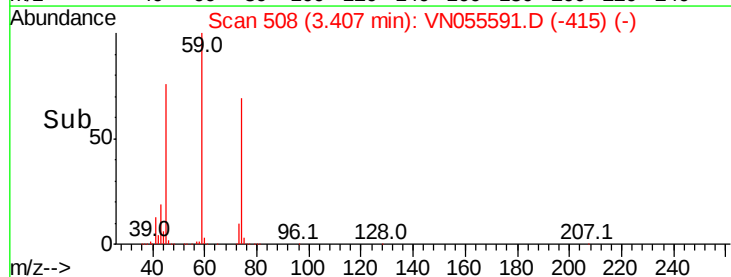
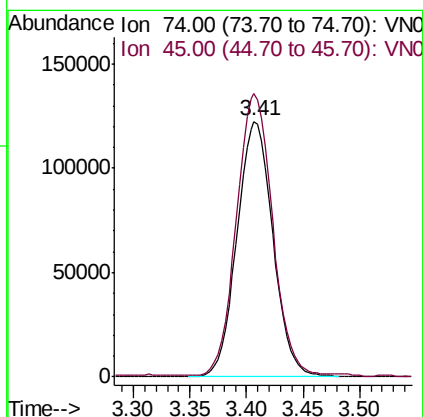
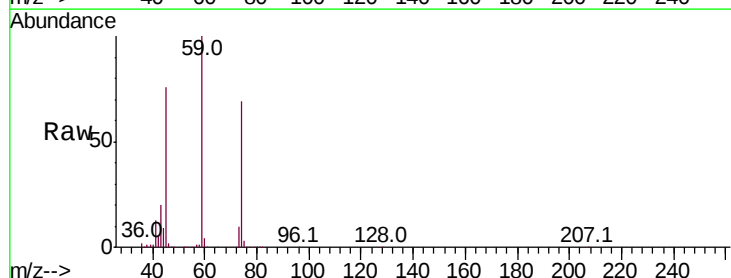
MMDadoda
 5/16/2019 1:31:58 PM

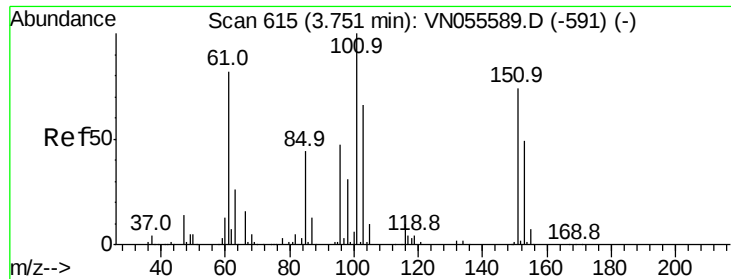


#8

Diethyl Ether
 Concen: 47.309 ug/l
 RT: 3.41 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	110.2	54.9	164.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.840 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

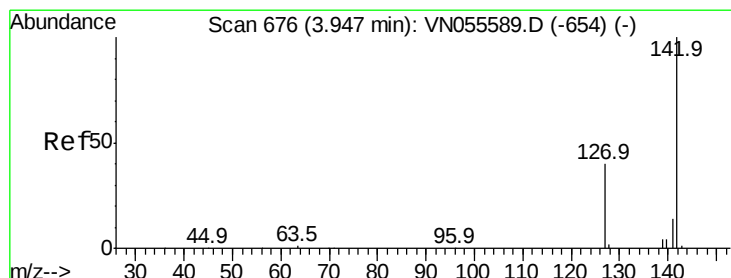
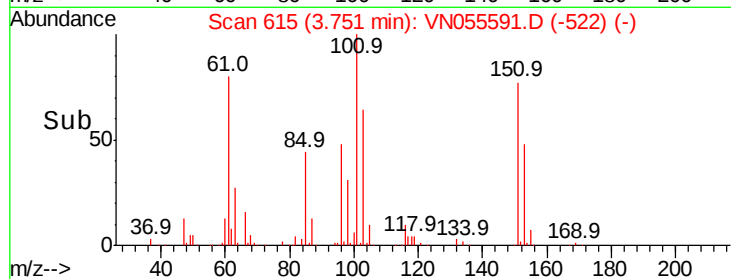
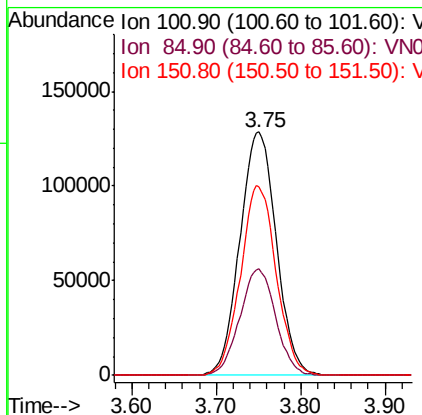
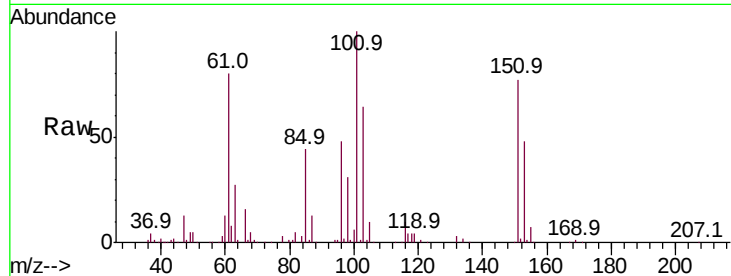
ClientSampleId :

ICVVN051419

Tot Ion:	101	Resp:	386559
Ion Ratio	Lower	Upper	
101	100		
85	43.1	34.2	51.2
151	76.4	60.2	90.2

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM



#10

Methyl Iodide

Concen: 51.023 ug/l

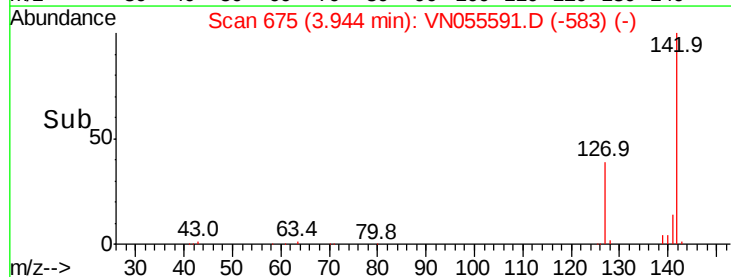
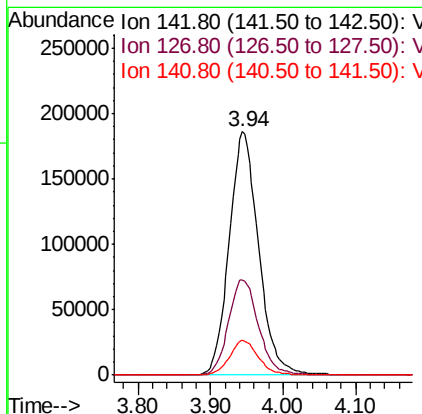
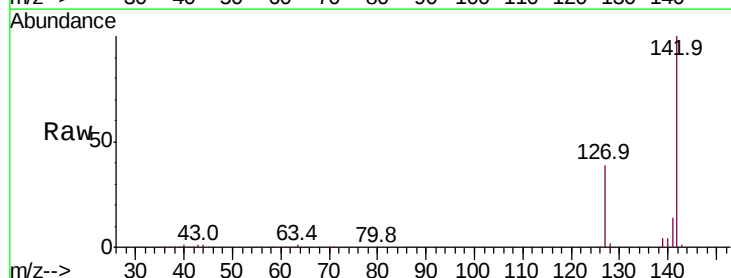
RT: 3.94 min Scan# 675

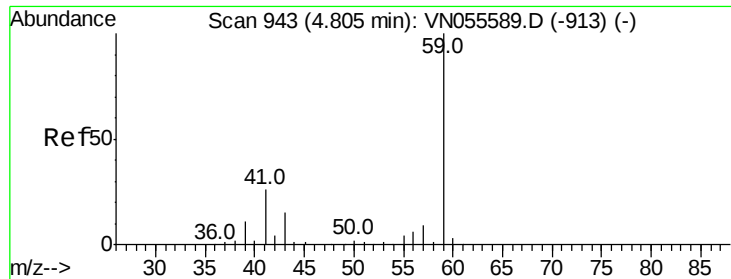
Delta R.T. -0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Tgt Ion:	142	Resp:	525663
Ion Ratio	Lower	Upper	
142	100		
127	40.2	32.5	48.7
141	13.9	11.2	16.8





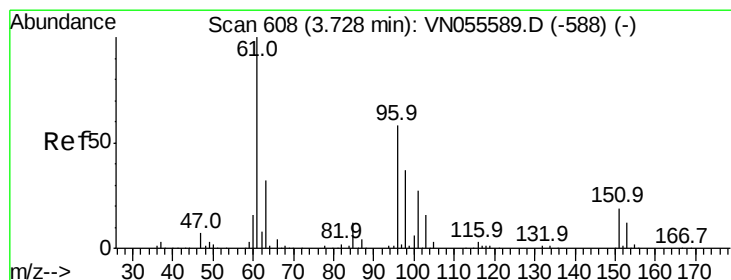
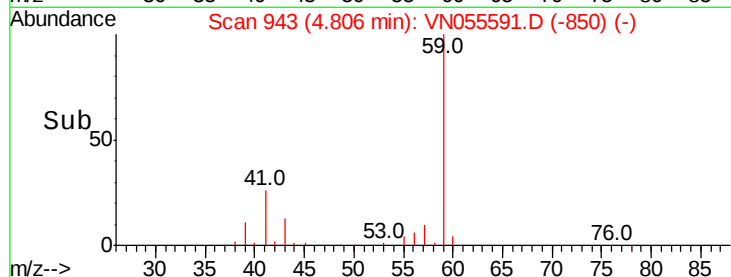
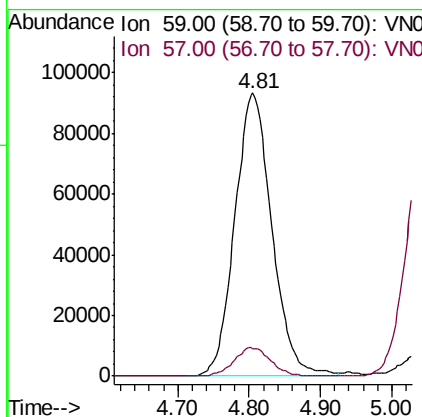
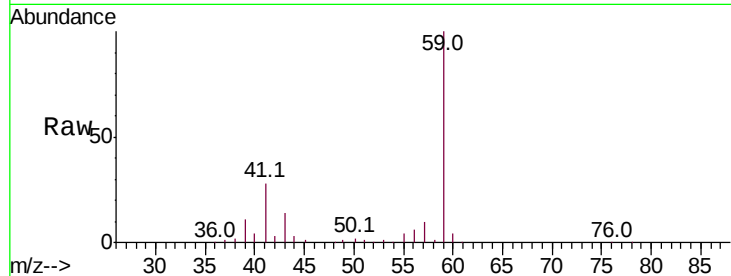
#11
Tert butyl alcohol
Concen: 252.672 ug/l
RT: 4.81 min Scan# 943
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion: 59 Resp: 337482
Ion Ratio Lower Upper
59 100
57 10.0 7.6 11.4

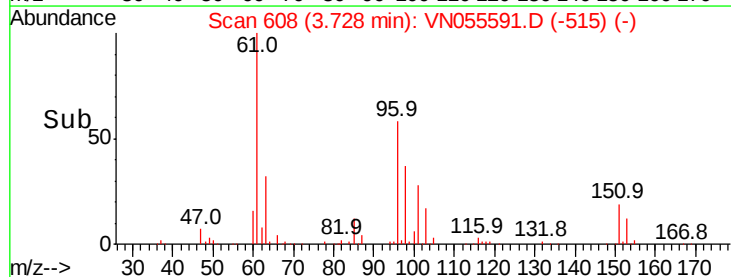
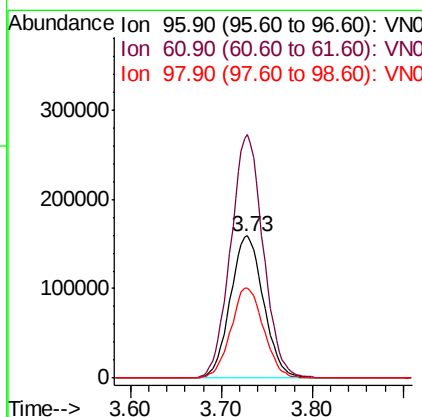
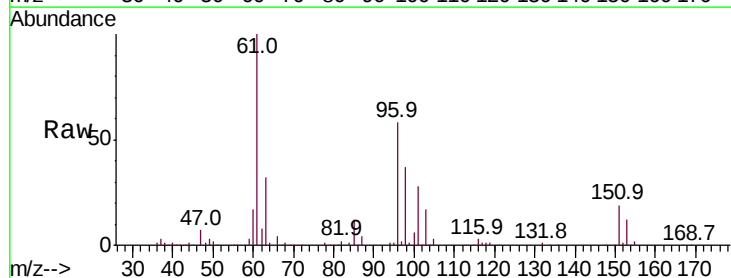
Manual Integrations
APPROVED

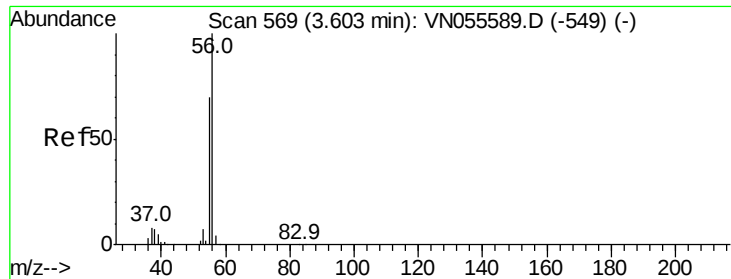
MMDadoda
5/16/2019 1:31:58 PM



#12
1,1-Dichloroethene
Concen: 49.862 ug/l
RT: 3.73 min Scan# 608
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion: 96 Resp: 403439
Ion Ratio Lower Upper
96 100
61 171.4 137.5 206.3
98 63.4 50.3 75.5





#13

Acrolein

Concen: 227.639 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampled :

ICVVN051419

Tot Ion: 56 Resp: 305061

Ion Ratio Lower Upper

56 100

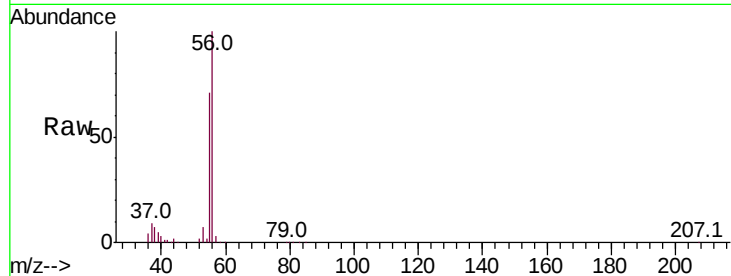
55 70.9 57.1 85.7

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:31:58 PM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

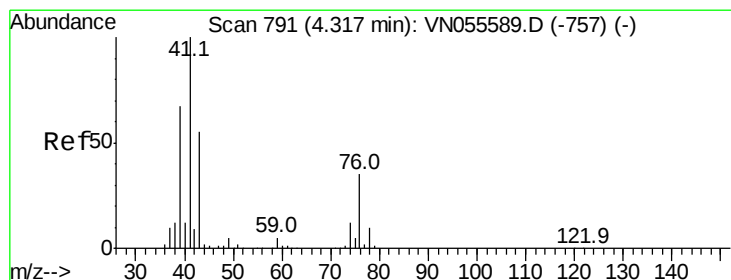
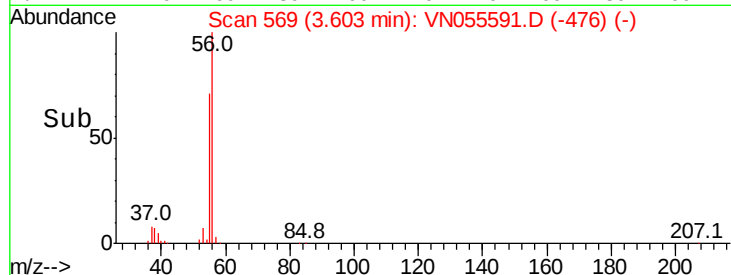
3.60

100000

50000

0

Time-->



#14

Allyl chloride

Concen: 49.620 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

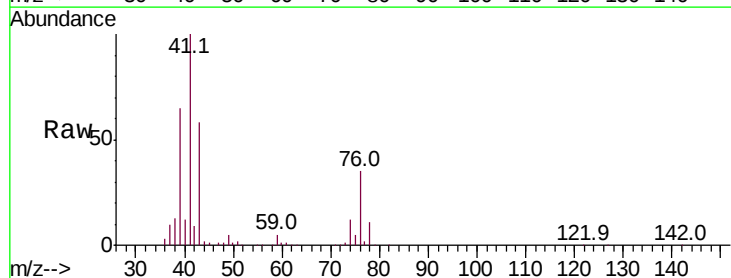
Tgt Ion: 41 Resp: 773490

Ion Ratio Lower Upper

41 100

39 61.4 49.3 73.9

76 31.4 24.7 37.1



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.32

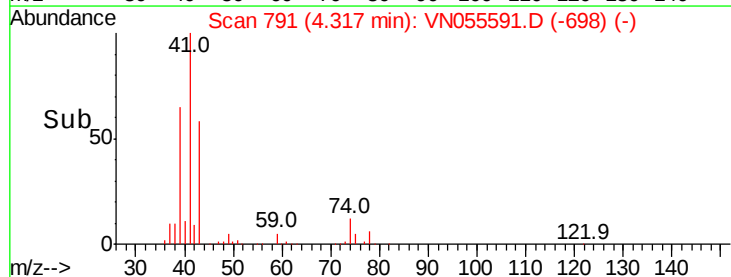
300000

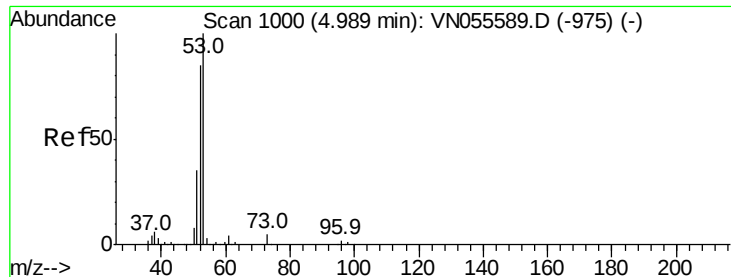
200000

100000

0

Time-->





#15

Acrylonitrile

Concen: 246.928 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 53 Resp: 1107506

Ion Ratio Lower Upper

53 100

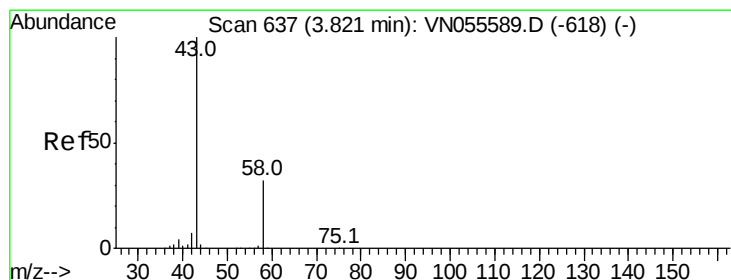
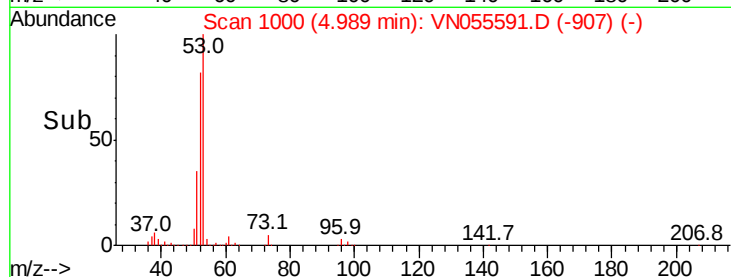
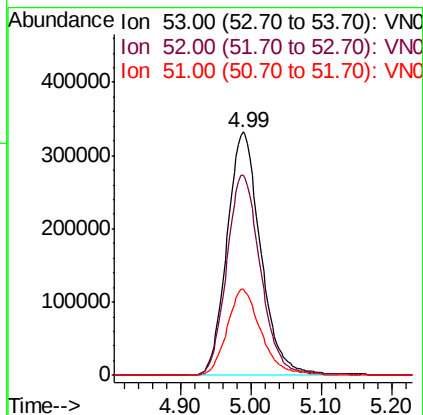
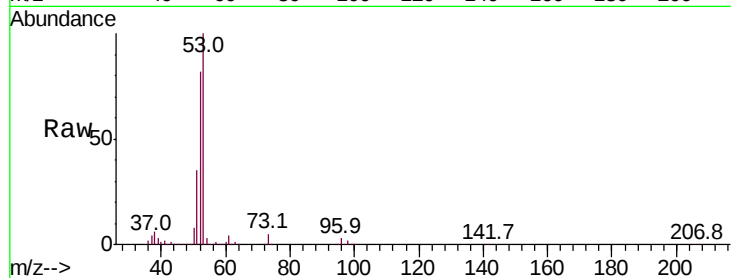
52 83.0 65.6 98.4

51 35.8 28.3 42.5

Manual Integrations
APPROVED

MMDadoda

5/16/2019 1:31:58 PM



#16

Acetone

Concen: 236.833 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055591.D

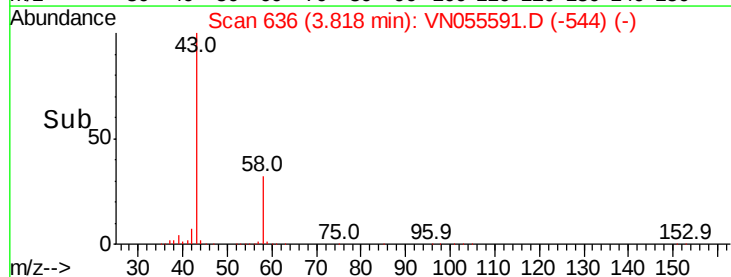
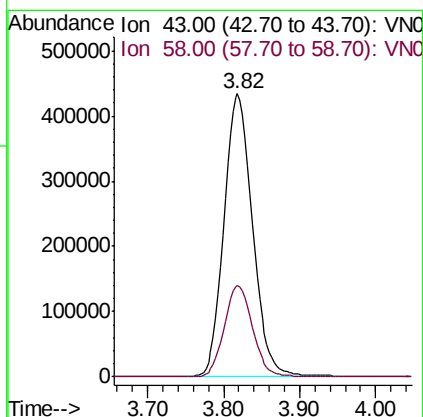
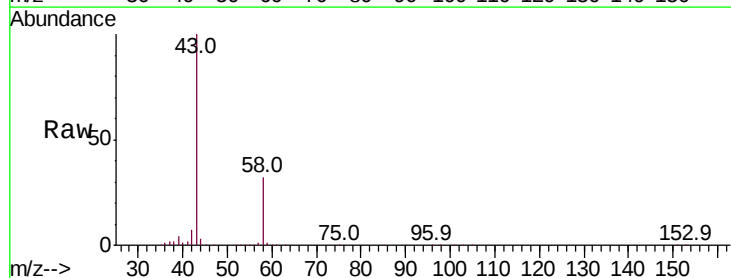
Acq: 14 May 2019 13:37

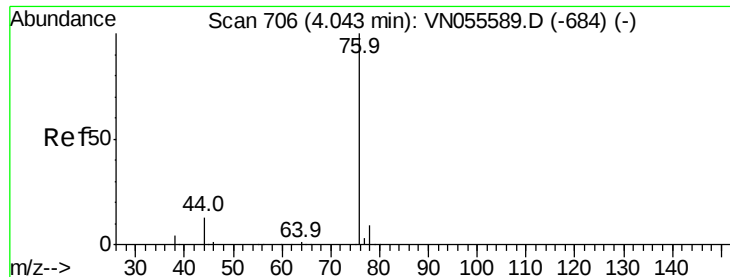
Tgt Ion: 43 Resp: 1126096

Ion Ratio Lower Upper

43 100

58 32.2 25.7 38.5





#17

Carbon Disulfide

Concen: 49.295 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 76 Resp: 1142929

Ion Ratio Lower Upper

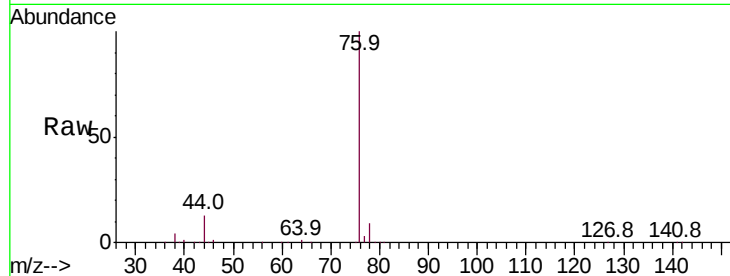
76 100

78 9.2 7.4 11.0

Manual Integrations
APPROVED

MMDadoda

5/16/2019 1:31:58 PM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.04

400000

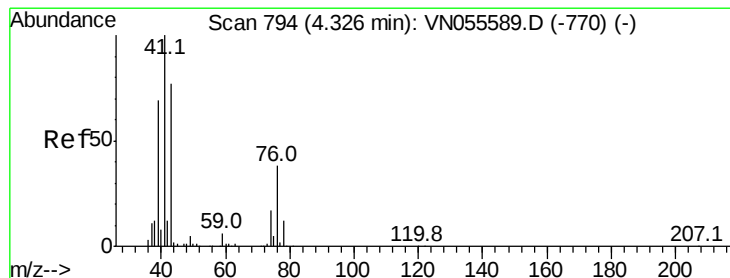
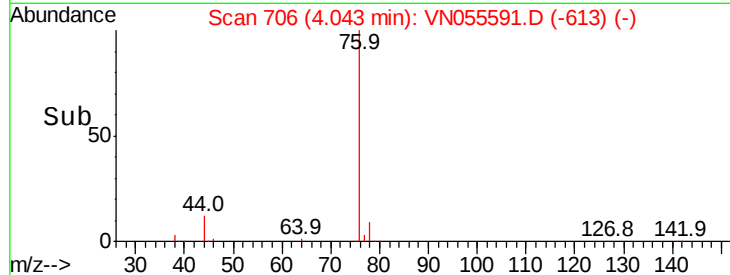
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 51.695 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055591.D

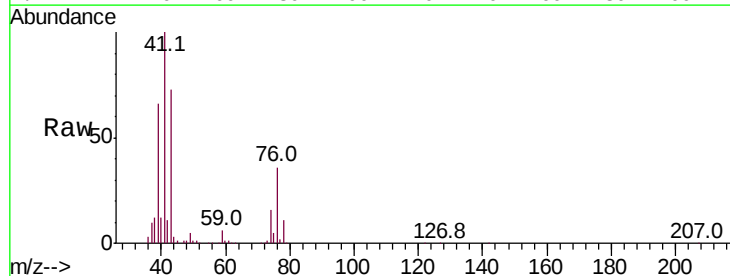
Acq: 14 May 2019 13:37

Tgt Ion: 43 Resp: 460459

Ion Ratio Lower Upper

43 100

74 21.2 17.4 26.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.33

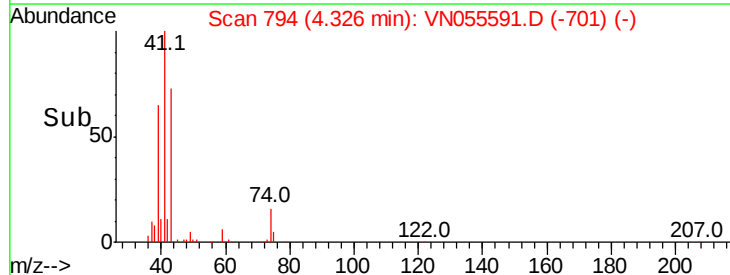
150000

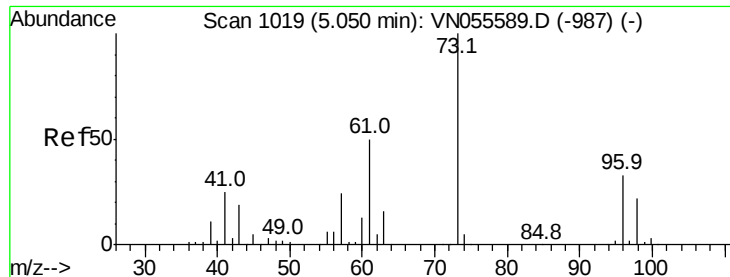
100000

50000

0

Time-->





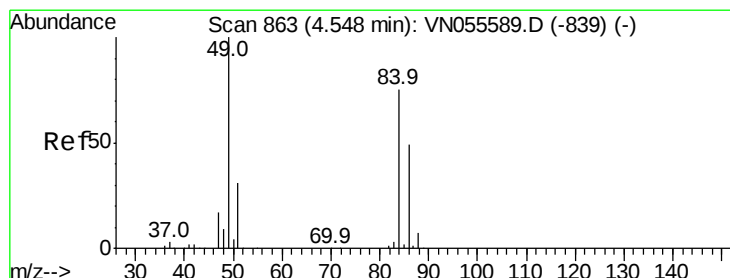
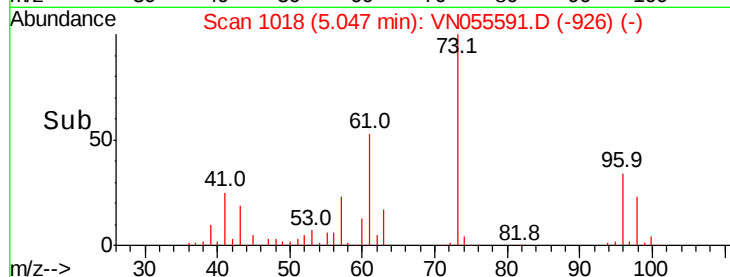
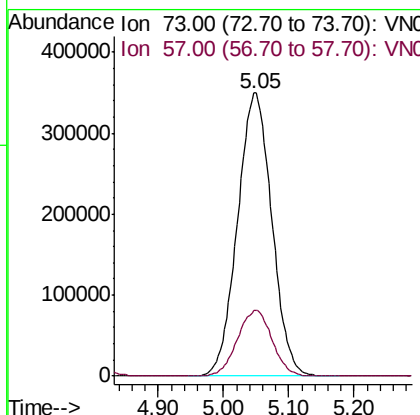
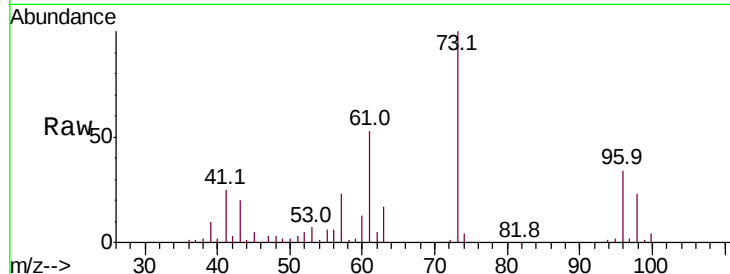
#19
Methvl tert-butvl Ether
Concen: 50.498 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion: 73 Resp: 127555
Ion Ratio Lower Upper
73 100
57 23.1 18.9 28.3

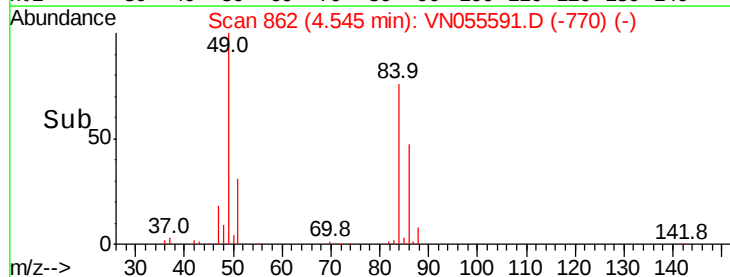
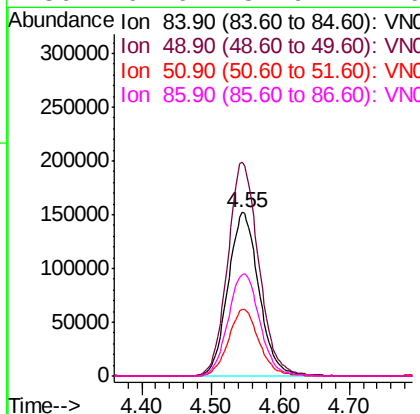
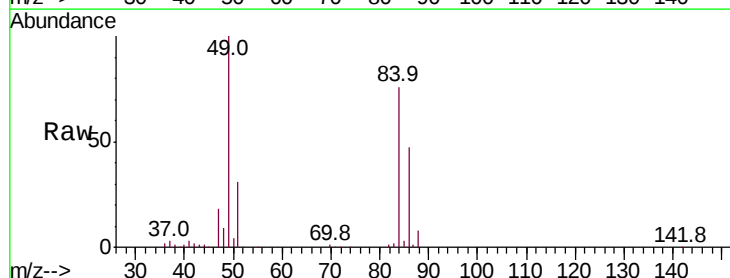
Manual Integrations
APPROVED

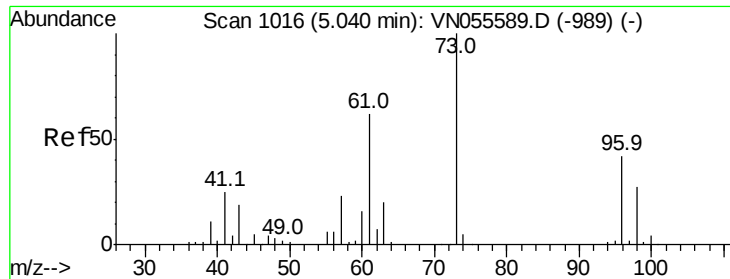
MMDadoda
5/16/2019 1:31:58 PM



#20
Methylene Chloride
Concen: 47.383 ug/l
RT: 4.55 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion: 84 Resp: 474192
Ion Ratio Lower Upper
84 100
49 130.8 106.2 159.2
51 41.0 32.7 49.1
86 61.6 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 48.803 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 96 Resp: 429218

Ion Ratio Lower Upper

96 100

61 150.3 117.8 176.6

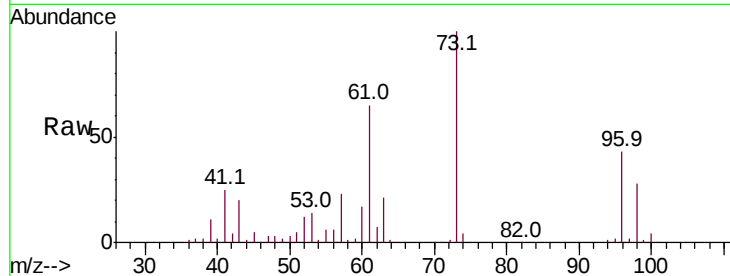
98 65.2 51.4 77.2

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:31:58 PM

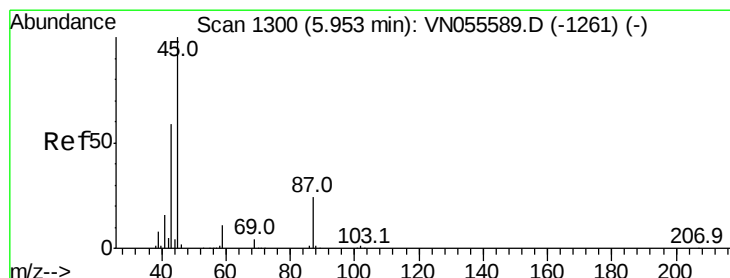
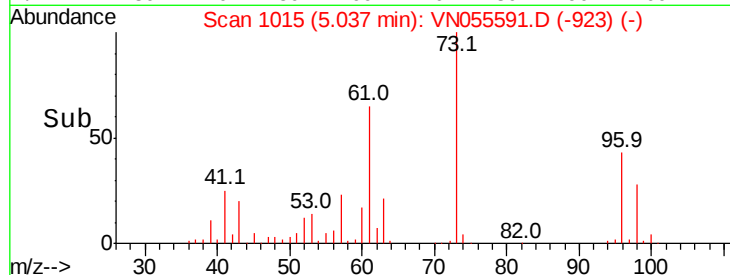
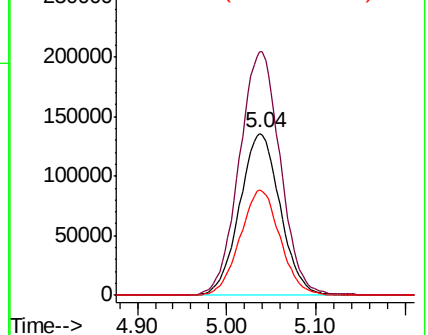


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 50.509 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Tgt Ion: 45 Resp: 1581397

Ion Ratio Lower Upper

45 100

43 57.4 47.1 70.7

87 24.4 19.5 29.3

59 11.0 9.0 13.4

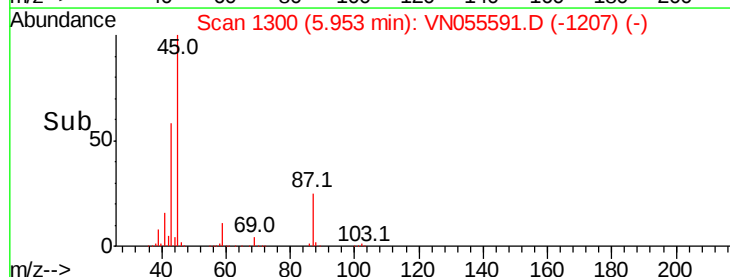
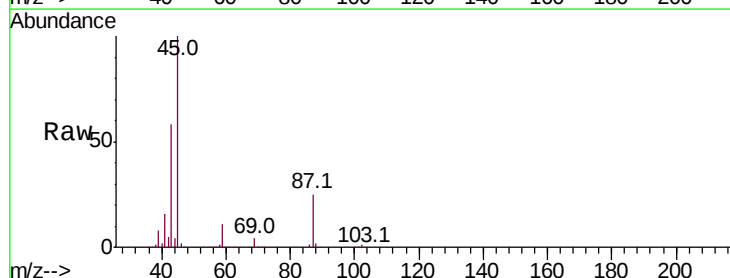
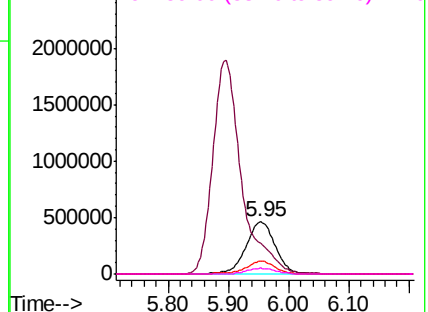
Abundance

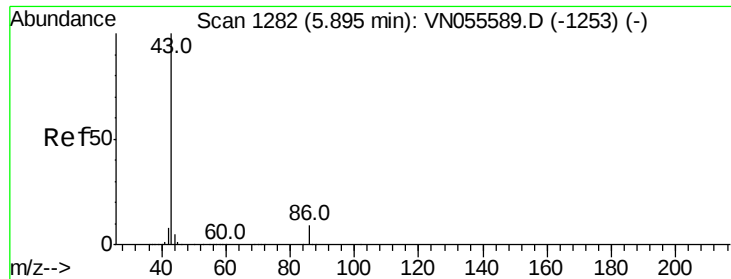
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 266.255 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 43 Resp: 6246149

Ion Ratio Lower Upper

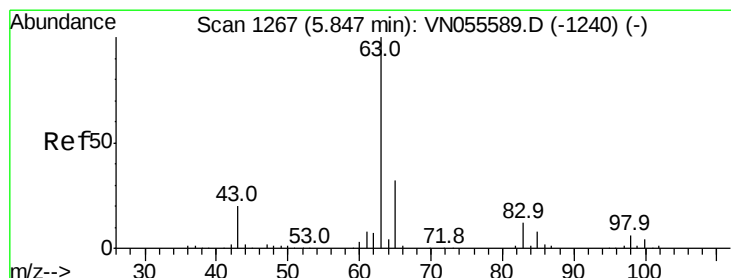
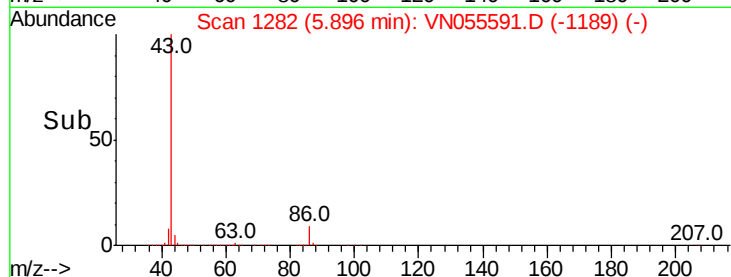
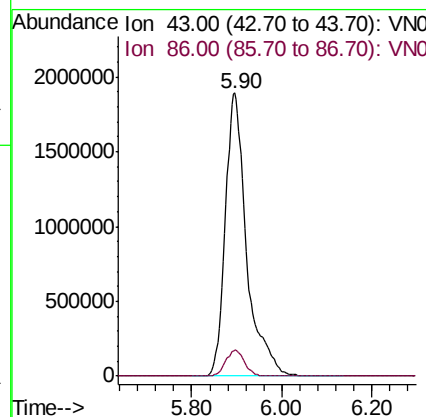
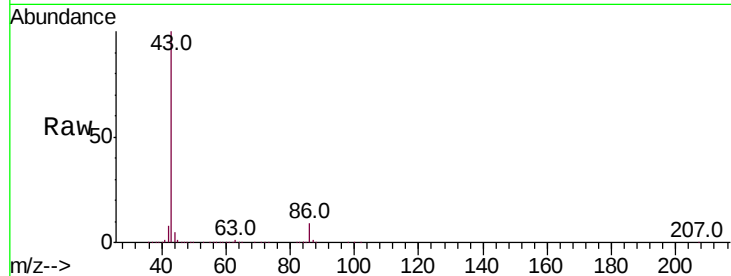
43 100

86 9.1 7.4 11.0

Manual Integrations
APPROVED

MMDadoda

5/16/2019 1:31:58 PM



#24

1,1-Dichloroethane

Concen: 49.038 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

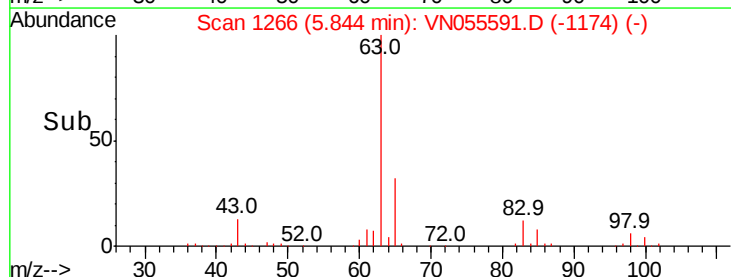
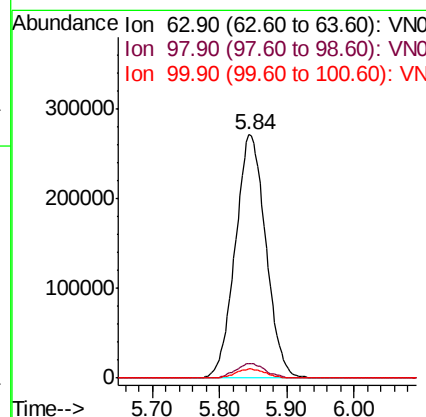
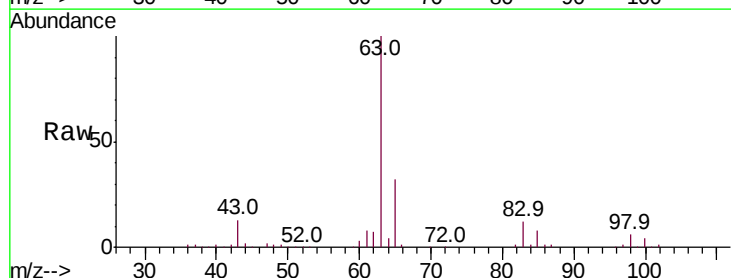
Tgt Ion: 63 Resp: 852704

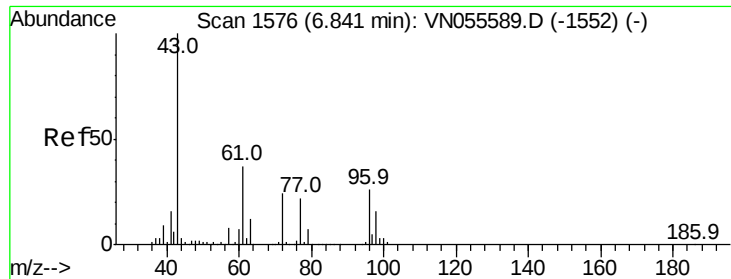
Ion Ratio Lower Upper

63 100

98 6.2 3.0 9.0

100 3.7 2.1 6.3





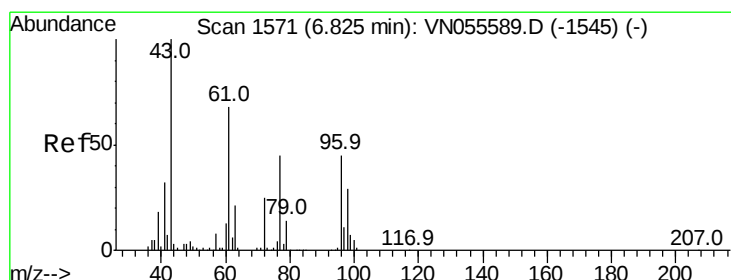
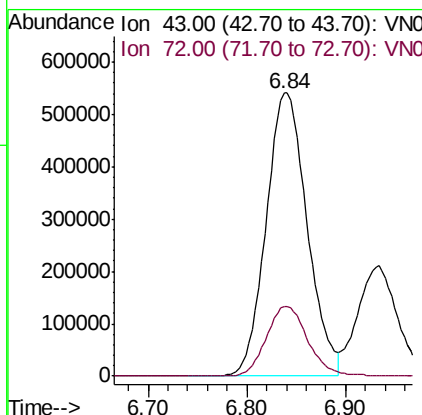
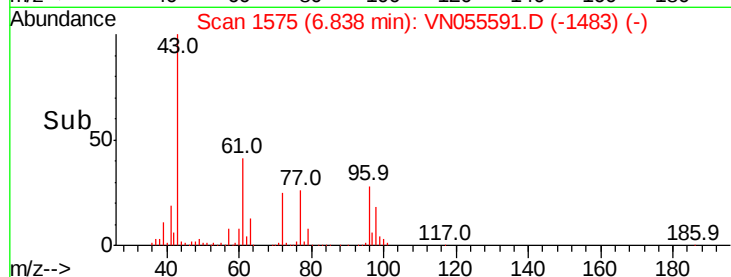
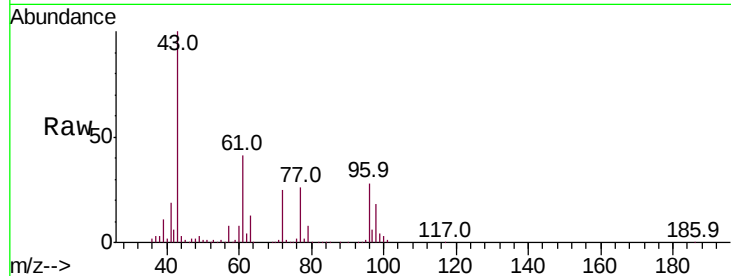
#25
2-Butanone
Concen: 249.282 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion: 43 Resp: 1553442
Ion Ratio Lower Upper
43 100
72 24.6 19.5 29.3

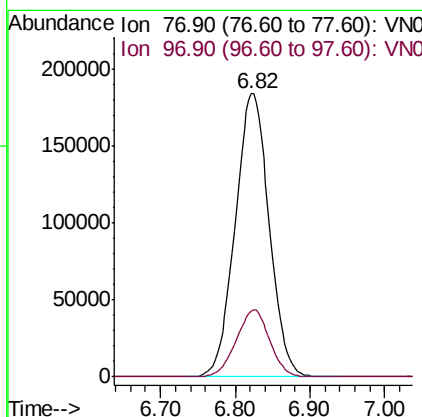
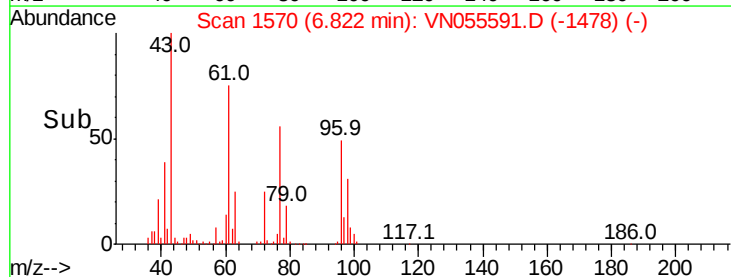
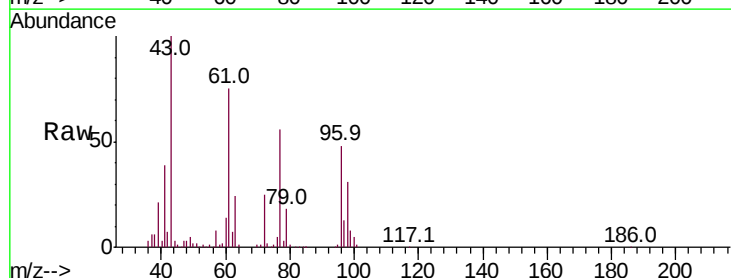
Manual Integrations
APPROVED

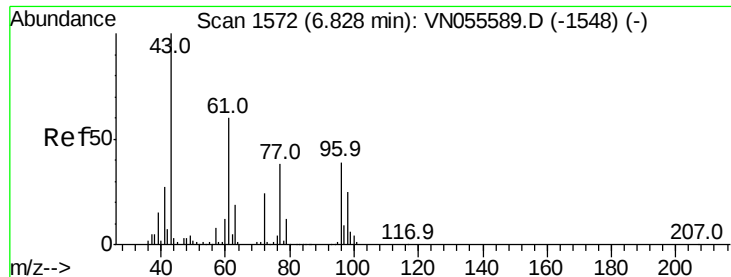
MMDadoda
5/16/2019 1:31:58 PM



#26
2,2-Dichloropropane
Concen: 51.603 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion: 77 Resp: 579534
Ion Ratio Lower Upper
77 100
97 23.5 11.7 35.1





#27

cis-1,2-Dichloroethene

Concen: 48.597 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

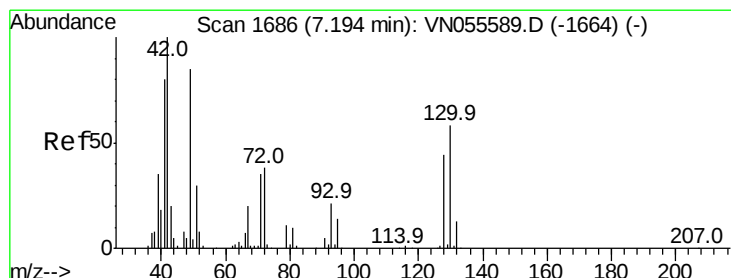
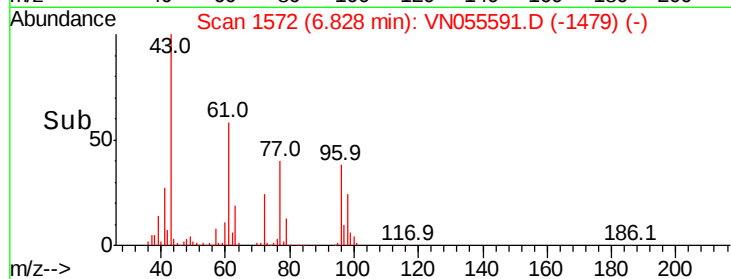
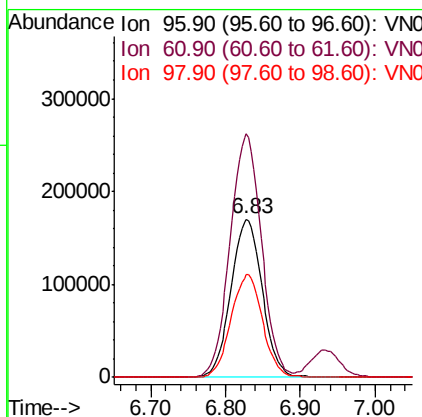
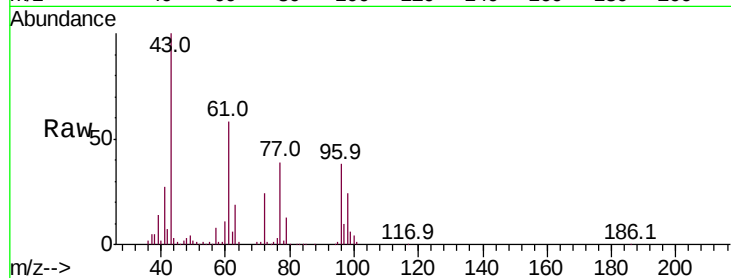
ClientSampleId :

ICVVN051419

Tot Ion:	96	Resp:	495144
Ion Ratio	Lower	Upper	
96	100		
61	154.0	0.0	305.0
98	65.2	0.0	128.2

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM



#28

Bromochloromethane

Concen: 48.170 ug/l

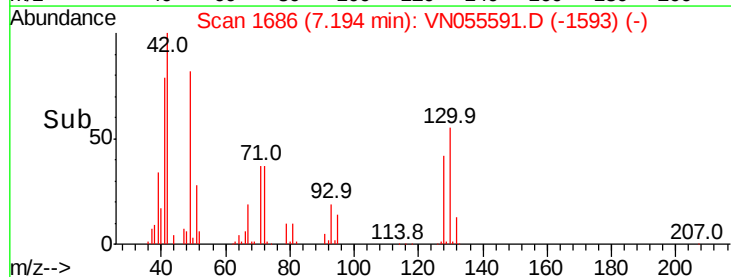
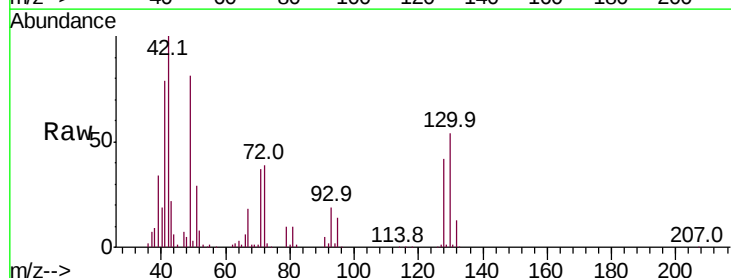
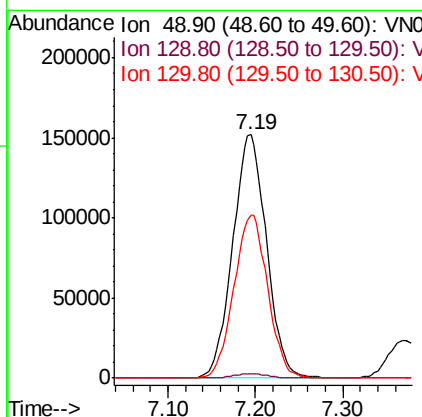
RT: 7.19 min Scan# 1686

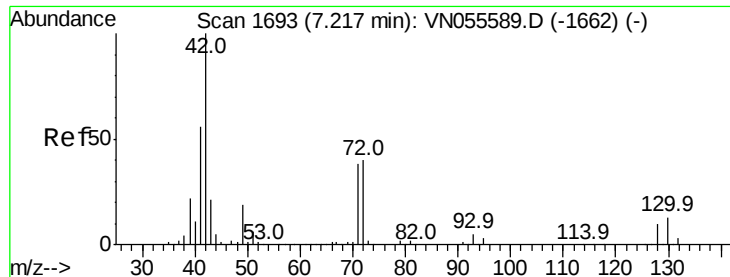
Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Tgt Ion:	49	Resp:	406827
Ion Ratio	Lower	Upper	
49	100		
129	1.7	0.0	3.6
130	67.0	52.4	78.6





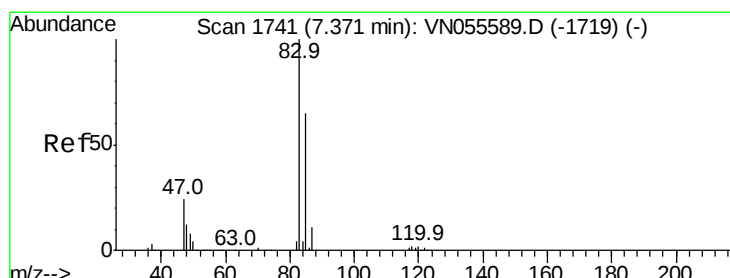
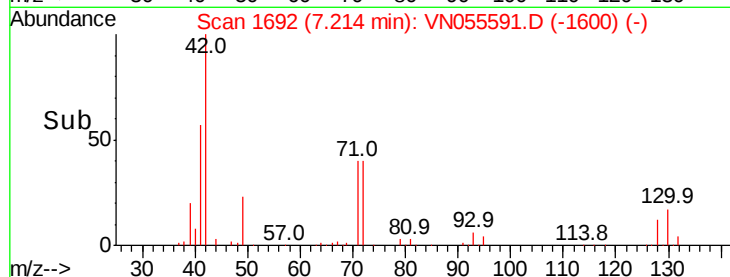
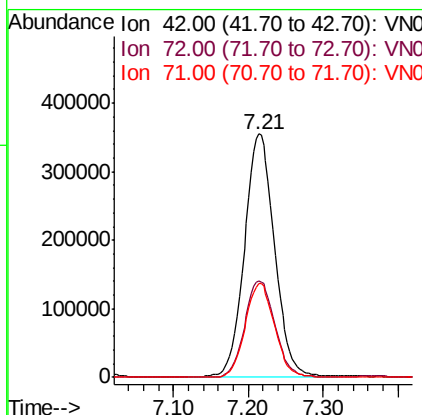
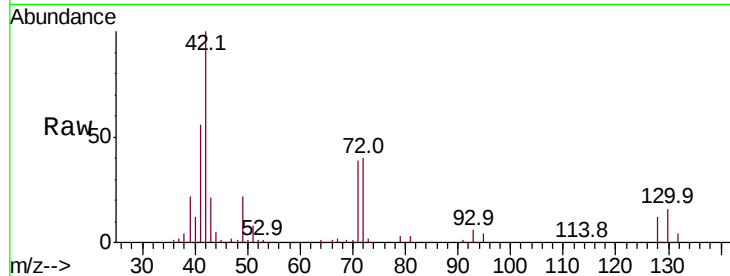
#29
Tetrahydrofuran
Concen: 245.125 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.8	31.4	47.2
71	37.9	29.9	44.9

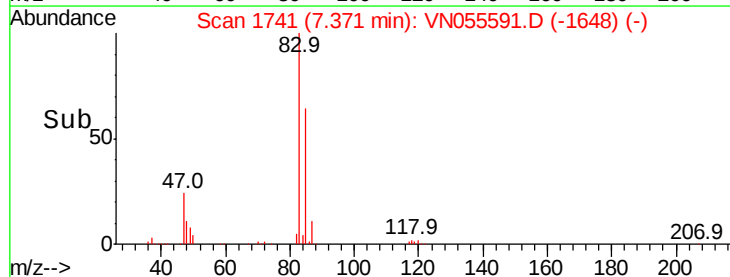
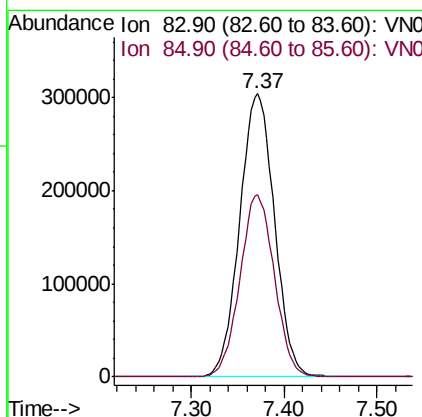
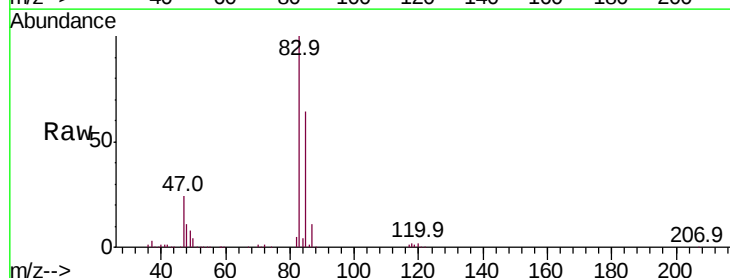
Manual Integrations
APPROVED

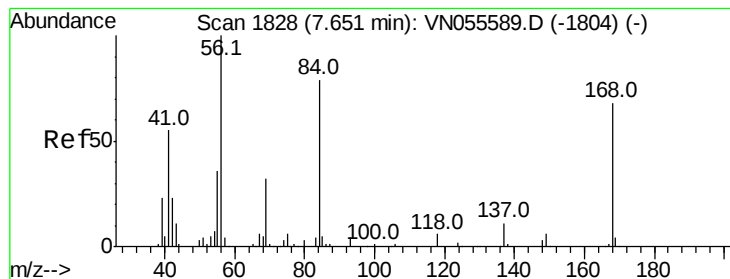
MMDadoda
5/16/2019 1:31:58 PM



#30
Chloroform
Concen: 48.721 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.9	77.9





#31

Cyclohexane

Concen: 47.960 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 56 Resp: 829892

Ion Ratio Lower Upper

56 100

69 31.1 25.7 38.5

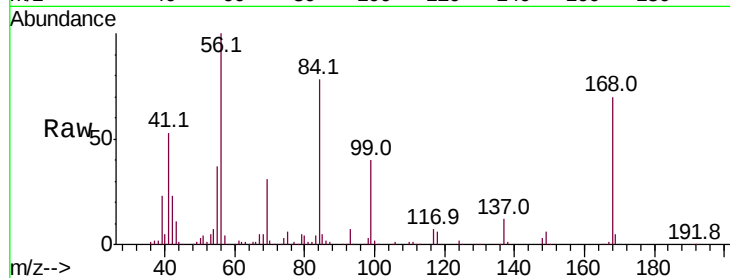
84 76.6 63.4 95.0

Manual Integrations

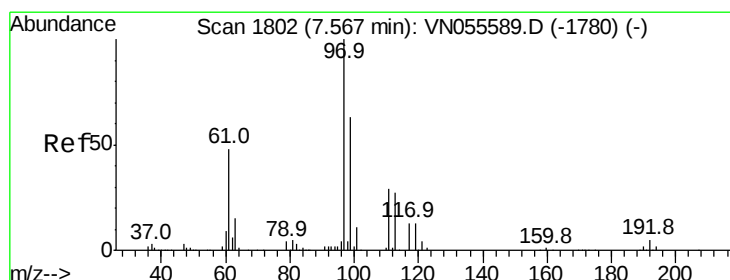
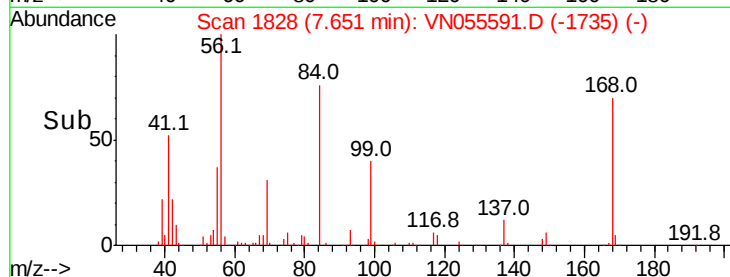
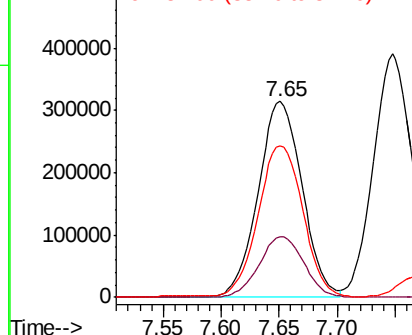
APPROVED

MMDadoda

5/16/2019 1:31:58 PM



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



#32

1,1,1-Trichloroethane

Concen: 49.644 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

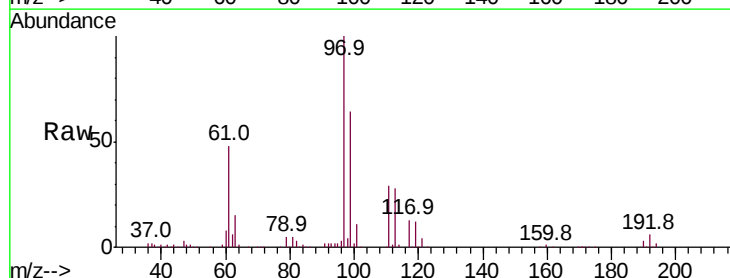
Tgt Ion: 97 Resp: 625538

Ion Ratio Lower Upper

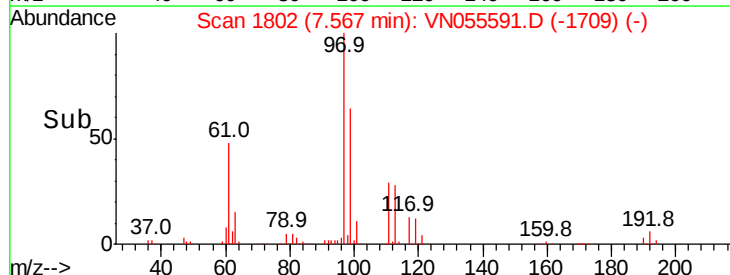
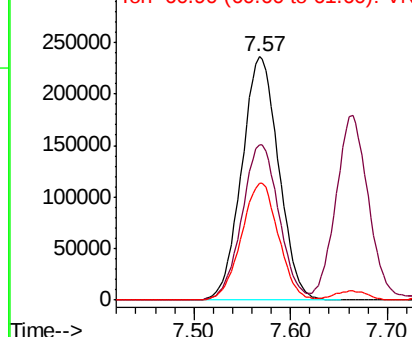
97 100

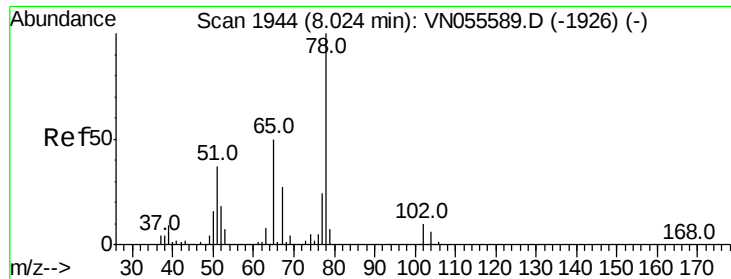
99 64.0 50.8 76.2

61 48.3 38.7 58.1



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





#33

1,2-Dichloroethane-d4

Concen: 49.442 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 65 Resp: 516846

Ion Ratio Lower Upper

65 100

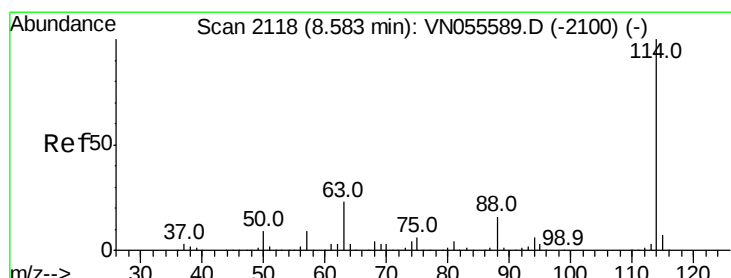
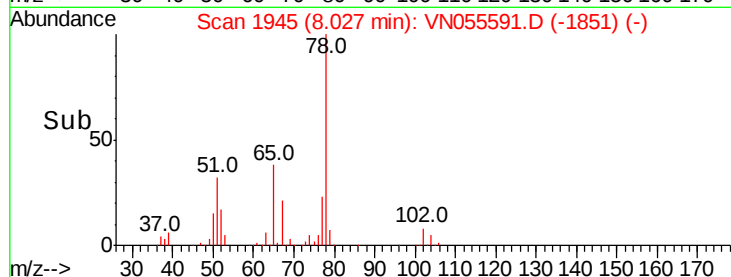
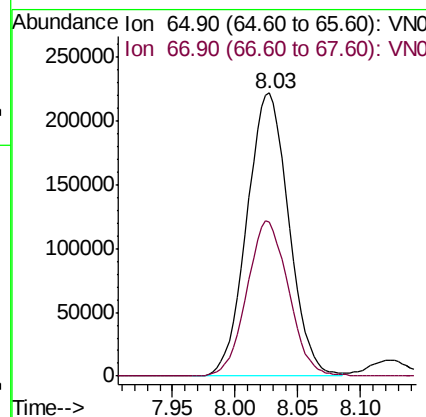
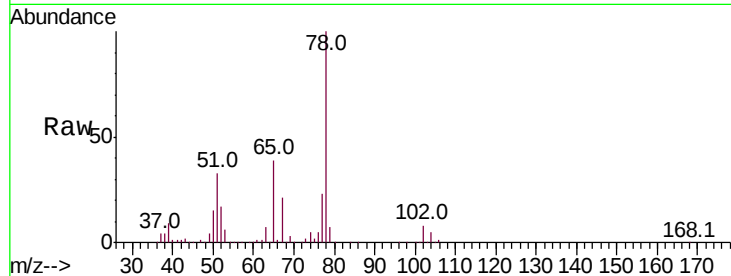
67 54.7 0.0 109.8

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:31:58 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

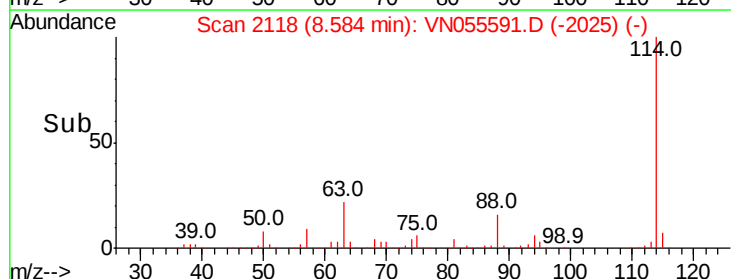
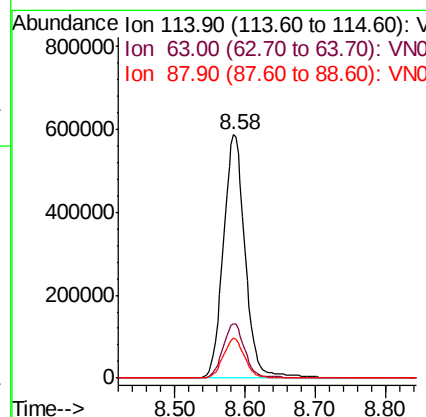
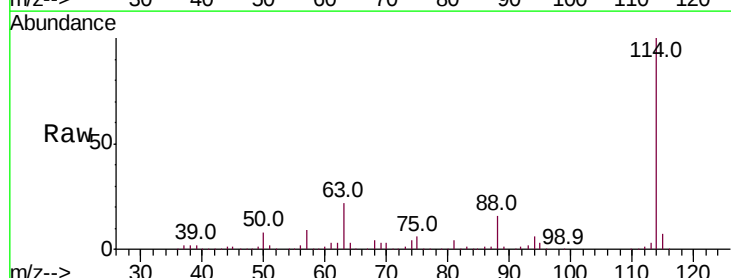
Tgt Ion:114 Resp: 1265658

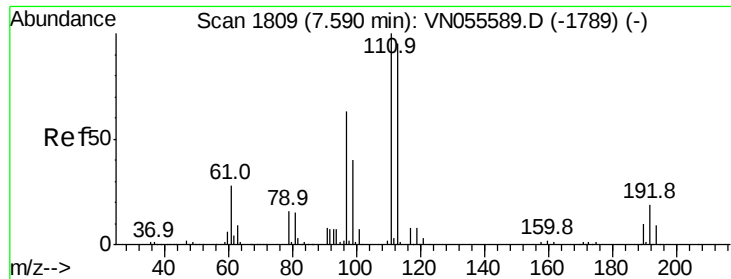
Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.8

88 16.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.829 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

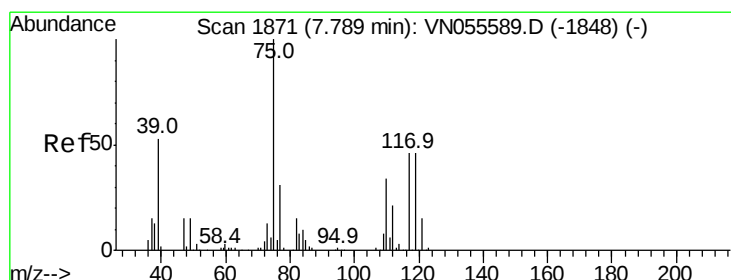
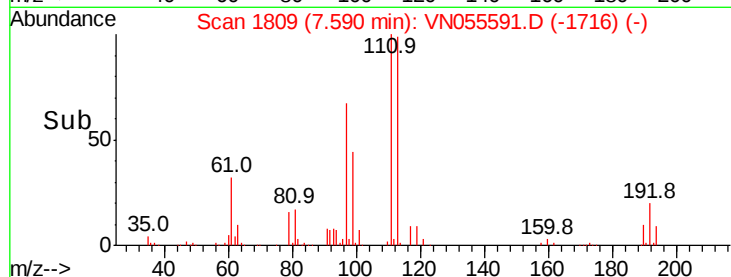
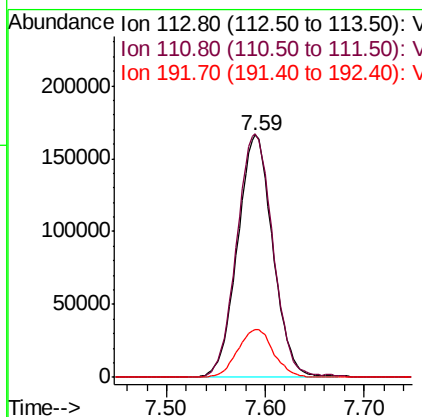
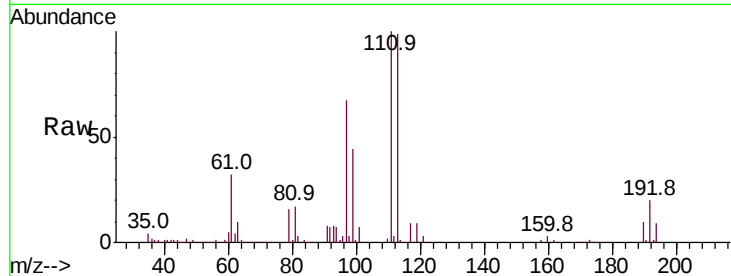
ClientSampleId :

ICVVN051419

Tot Ion:	113	Resp:	410960
Ion Ratio	Lower	Upper	
113	100		
111	102.8	83.5	125.3
192	20.0	16.0	24.0

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM



#36

1,1-Dichloropropene

Concen: 49.683 ug/l

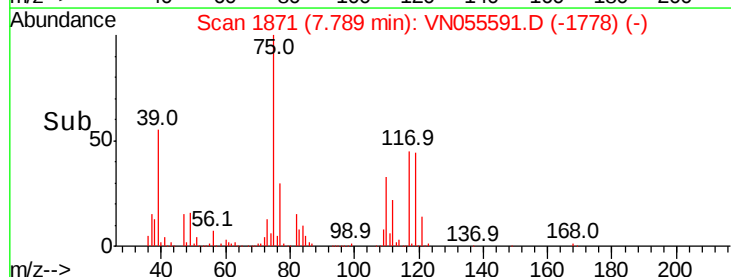
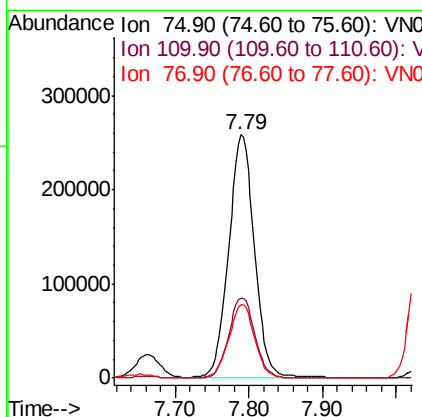
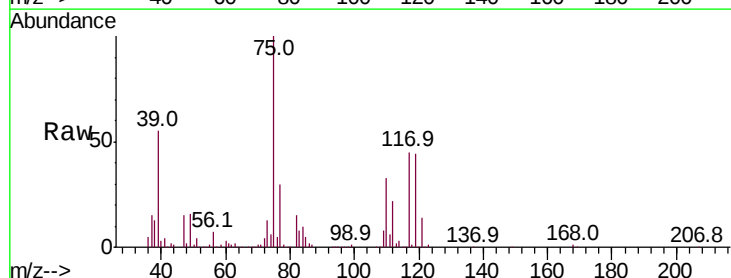
RT: 7.79 min Scan# 1871

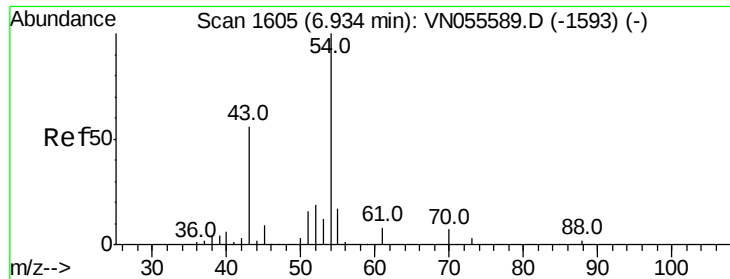
Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Tgt Ion:	75	Resp:	625199
Ion Ratio	Lower	Upper	
75	100		
110	33.5	16.9	50.7
77	30.8	24.9	37.3





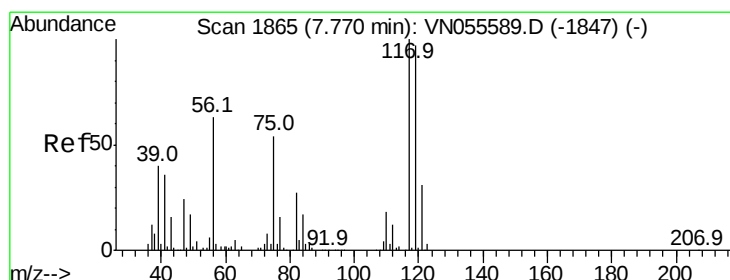
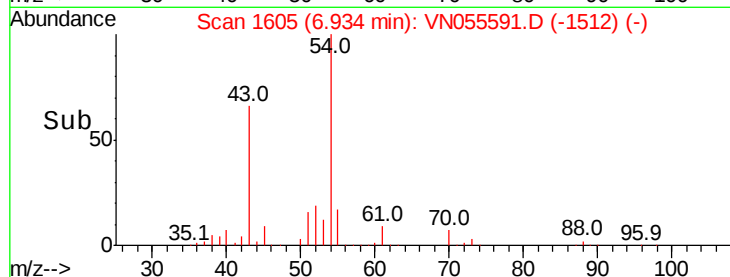
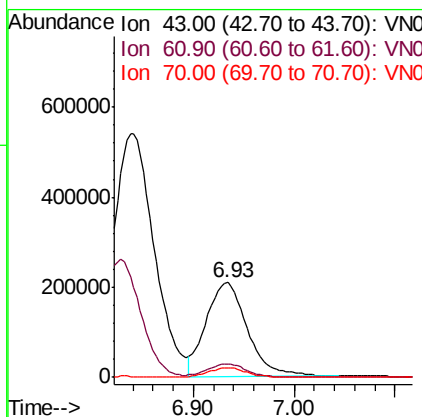
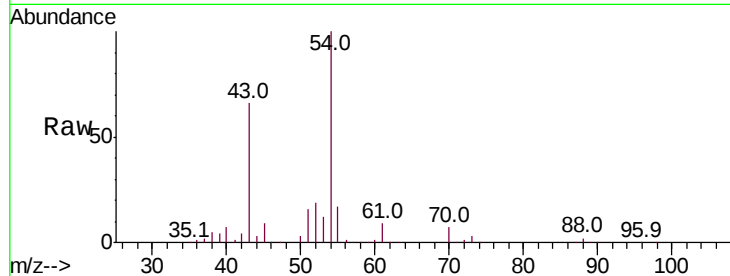
#37
Ethyl Acetate
Concen: 50.462 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.8	16.2
70	9.4	7.4	11.2

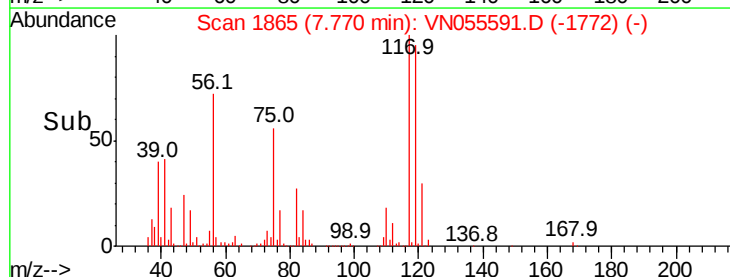
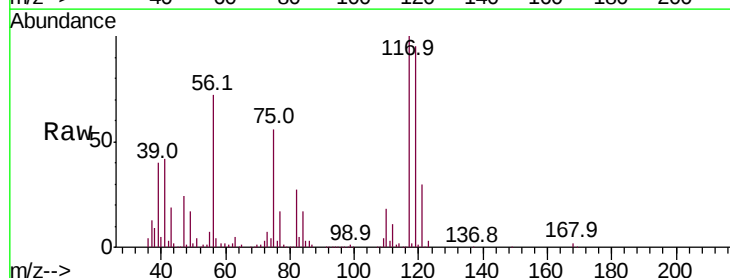
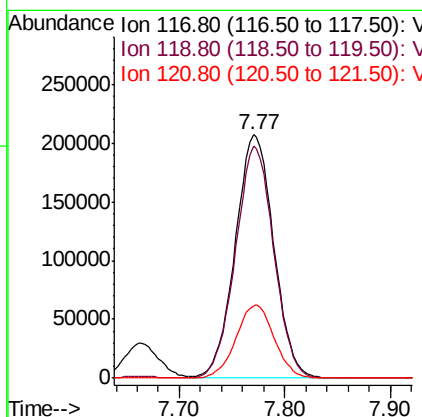
Manual Integrations
APPROVED

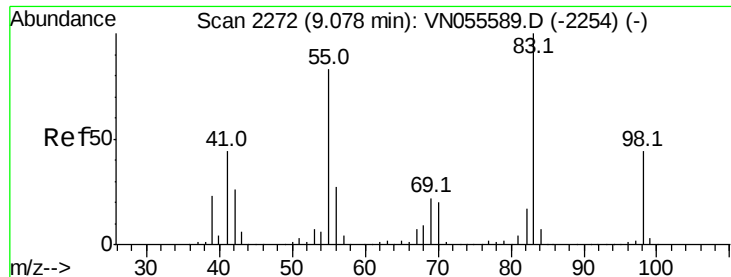
MMDadoda
5/16/2019 1:31:58 PM



#38
Carbon Tetrachloride
Concen: 50.191 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.1	115.7
121	29.8	24.4	36.6





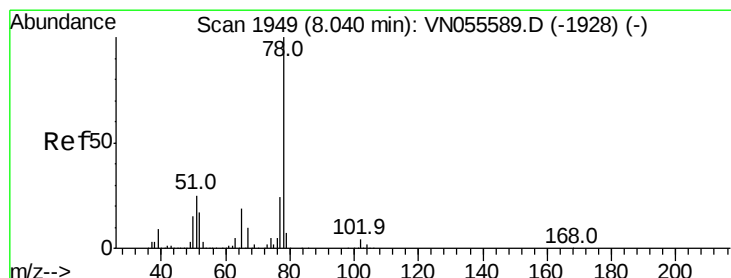
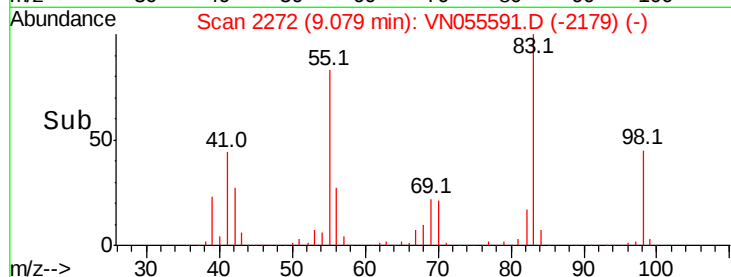
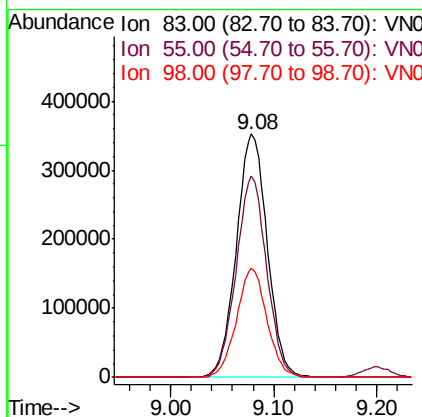
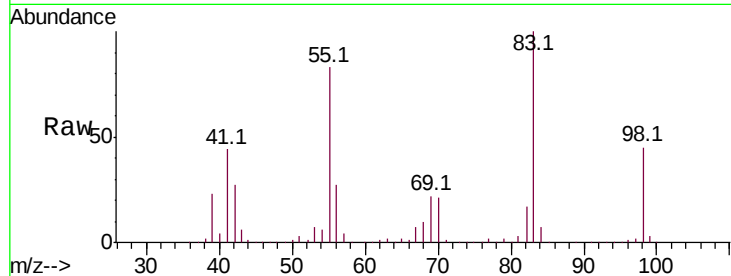
#39
Methylvlcvclohexane
Concen: 49.730 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.7	66.3	99.5
98	44.7	34.8	52.2

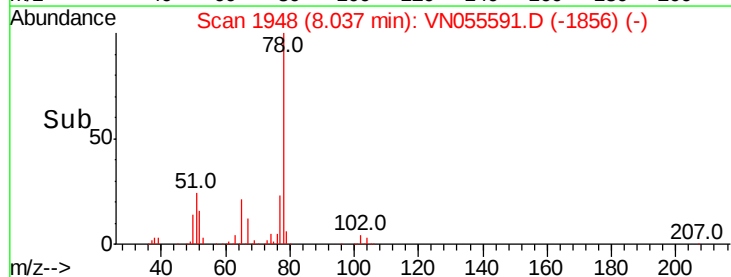
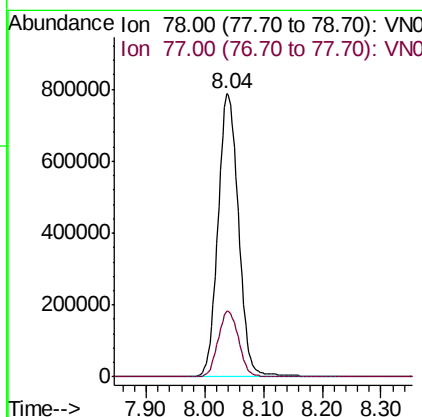
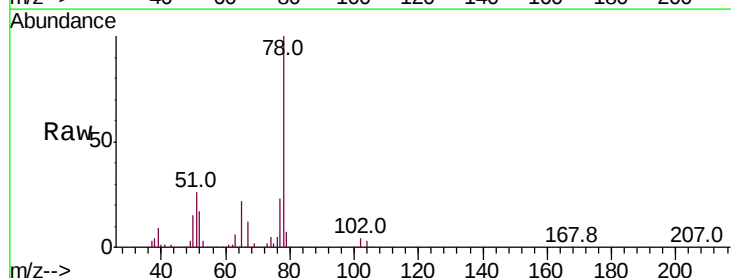
Manual Integrations
APPROVED

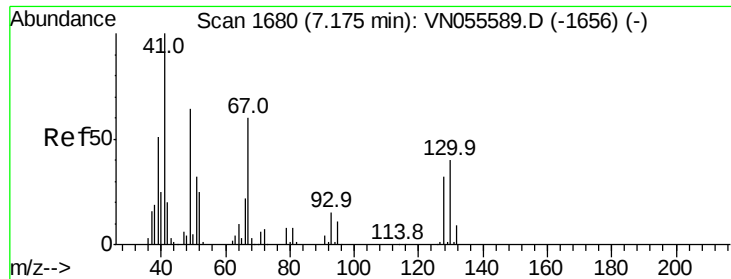
MMDadoda
5/16/2019 1:31:58 PM



#40
Benzene
Concen: 49.428 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.9	28.3





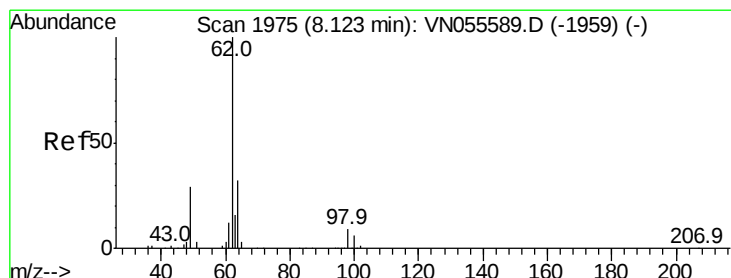
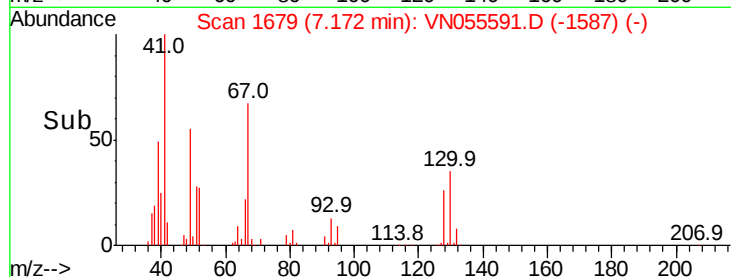
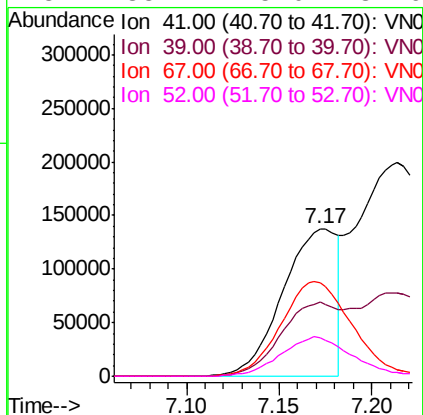
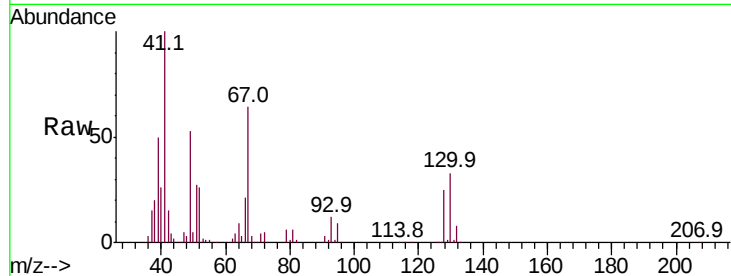
#41
Methacrylonitrile
Concen: 52.318 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.9	44.1	66.1
67	84.7	63.4	95.0
52	35.1	25.0	37.6

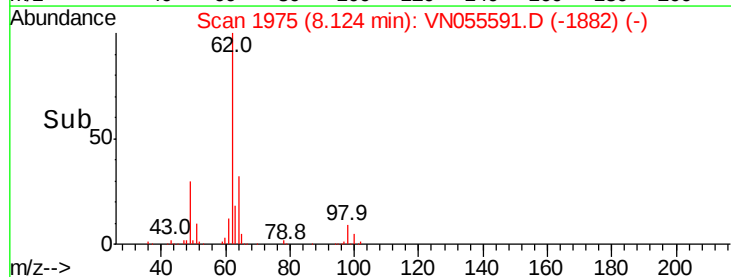
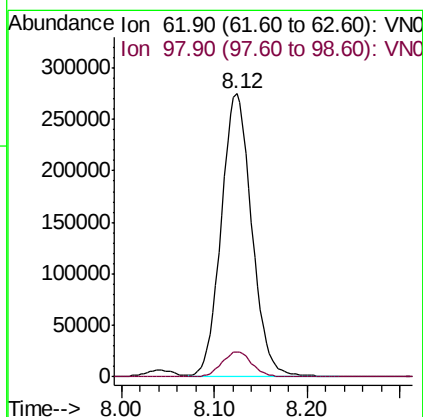
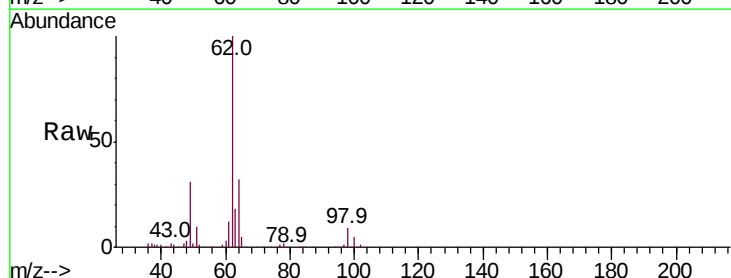
Manual Integrations
APPROVED

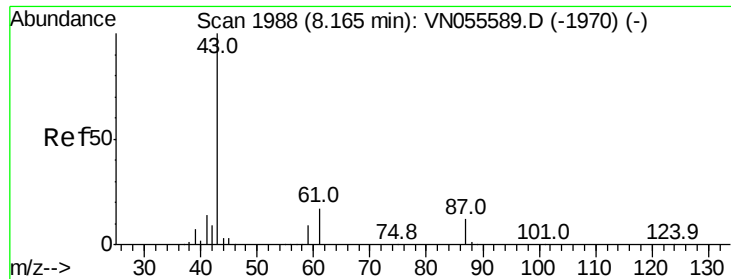
MMDadoda
5/16/2019 1:31:58 PM



#42
1,2-Dichloroethane
Concen: 48.845 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.0





#43

Isopropyl Acetate

Concen: 51.510 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

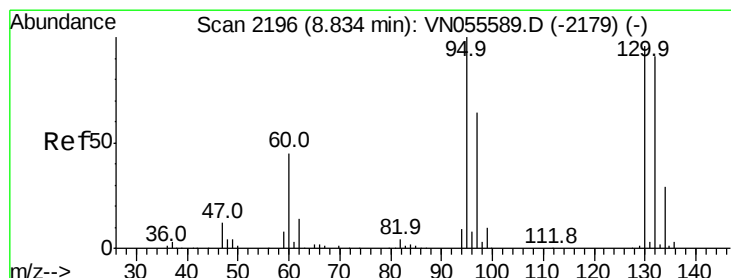
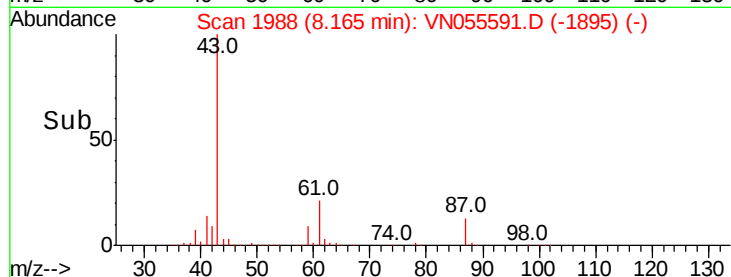
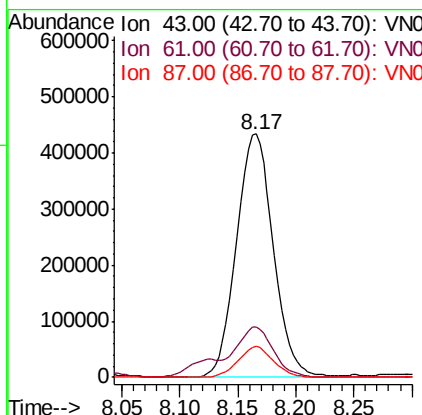
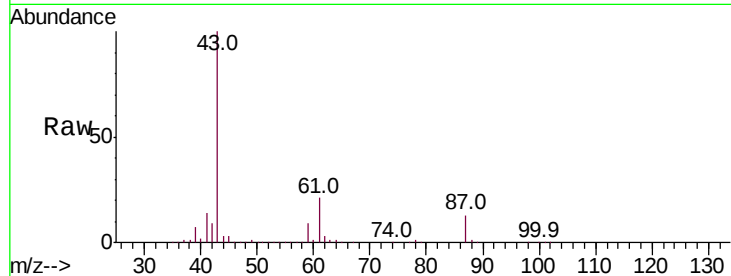
ClientSampleId :

ICVVN051419

Tot Ion:	43	Resp:	952476
Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.1	24.1
87	12.3	9.6	14.4

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM



#44

Trichloroethene

Concen: 49.379 ug/l

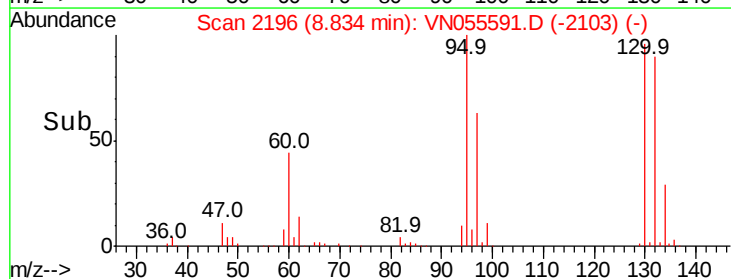
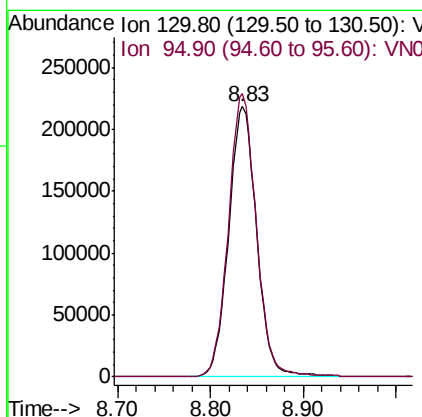
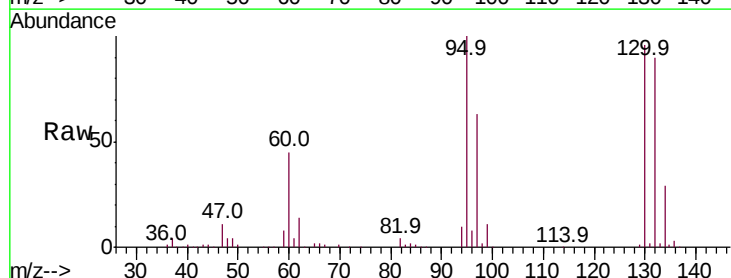
RT: 8.83 min Scan# 2196

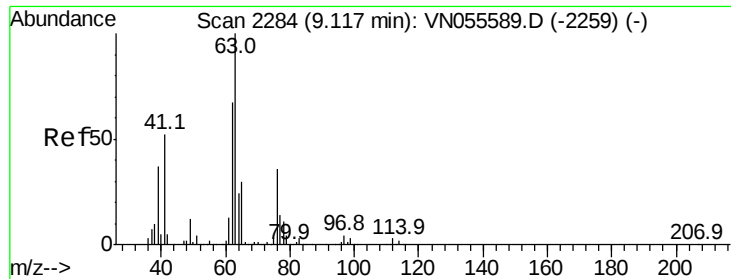
Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Tgt Ion:	130	Resp:	456368
Ion	Ratio	Lower	Upper
130	100		
95	104.7	0.0	208.6





#45

1,2-Dichloropropane

Concen: 49.600 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 63 Resp: 525340

Ion Ratio Lower Upper

63 100

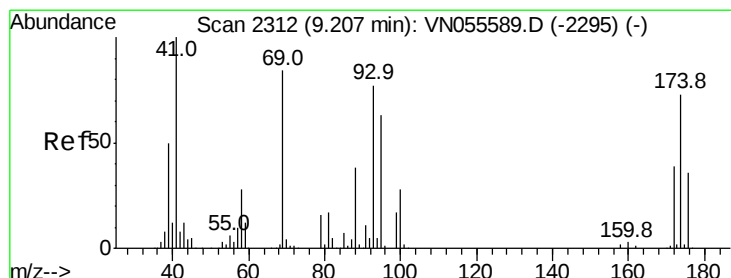
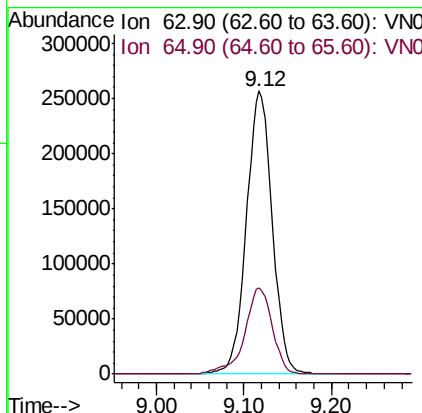
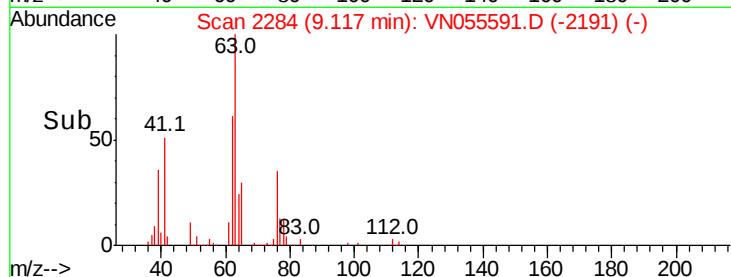
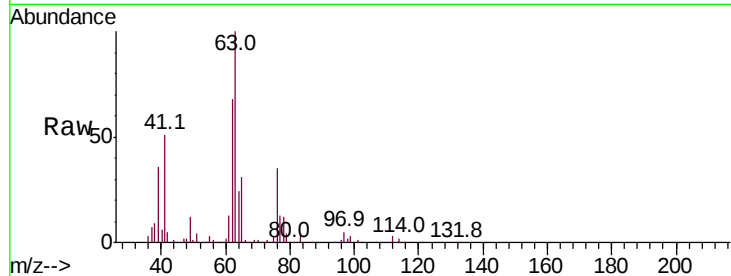
65 30.7 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:31:58 PM



#46

Dibromomethane

Concen: 48.750 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

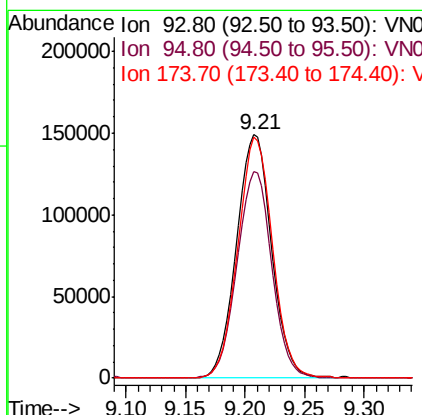
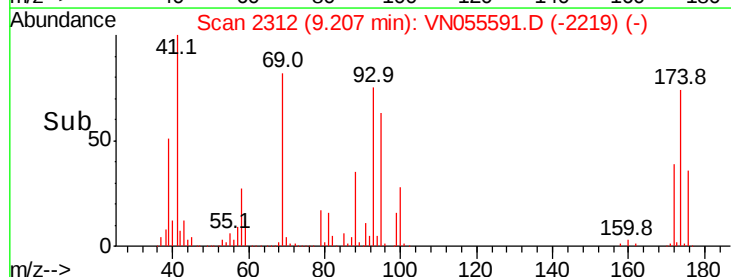
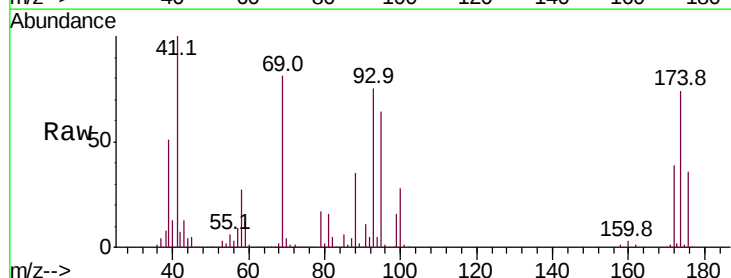
Tgt Ion: 93 Resp: 304951

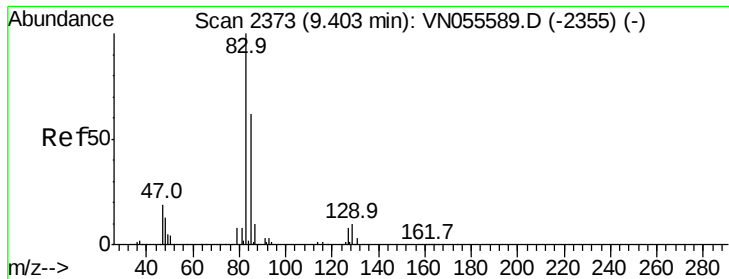
Ion Ratio Lower Upper

93 100

95 84.5 66.6 100.0

174 97.9 78.4 117.6





#47

Bromodichloromethane

Concen: 50.125 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

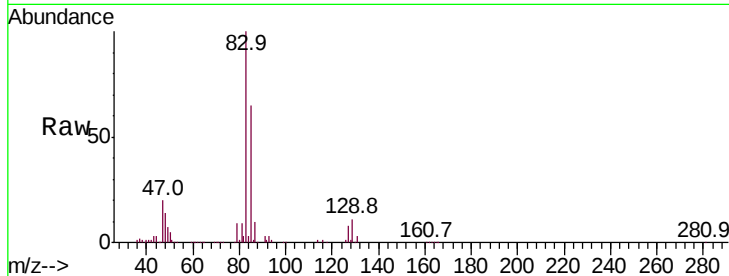
ClientSampleId :

ICVVN051419

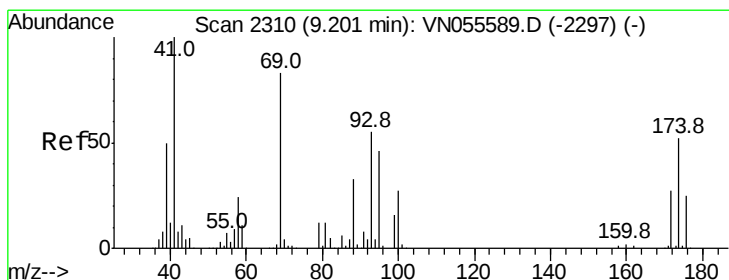
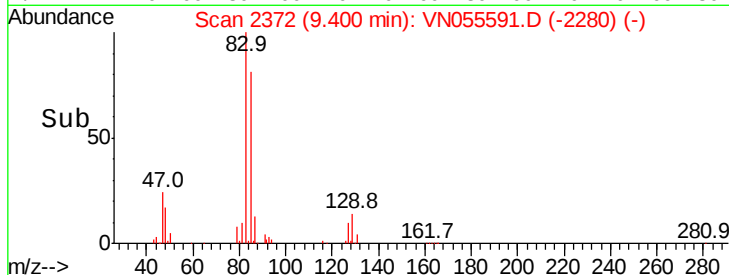
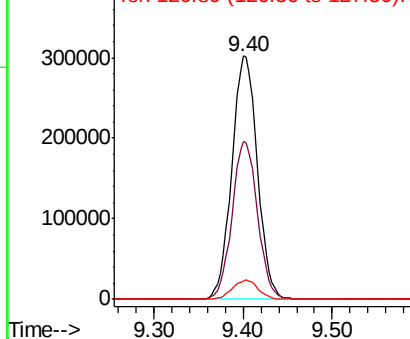
Tot Ion	83	Resp	597697
Ion	Ratio	Lower	Upper
83	100		
85	64.8	49.6	74.4
127	7.6	6.6	9.8

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM



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



#48

Methyl methacrylate

Concen: 50.069 ug/l

RT: 9.20 min Scan# 2309

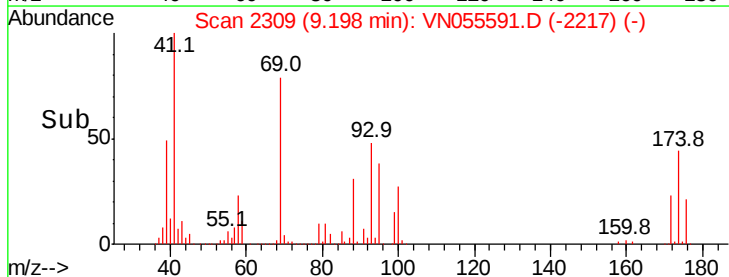
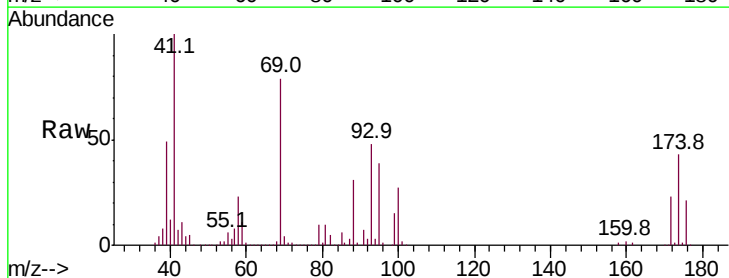
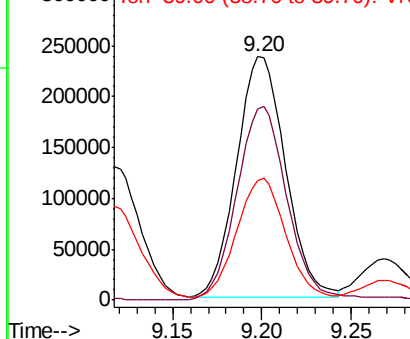
Delta R.T. -0.00 min

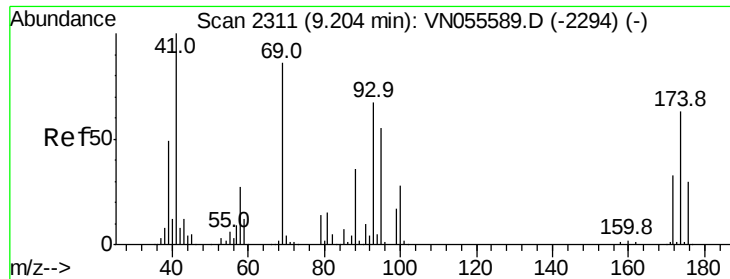
Lab File: VN055591.D

Acq: 14 May 2019 13:37

Tgt Ion	41	Resp	452282
Ion	Ratio	Lower	Upper
41	100		
69	84.0	65.7	98.5
39	51.1	40.2	60.4

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





#49

1,4-Dioxane

Concen: 986.645 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 88 Resp: 162884

Ion Ratio Lower Upper

88 100

43 32.5 25.4 38.0

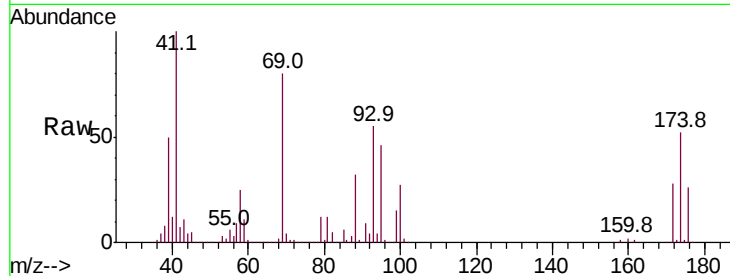
58 74.2 59.4 89.2

Manual Integrations

APPROVED

MMDadoda

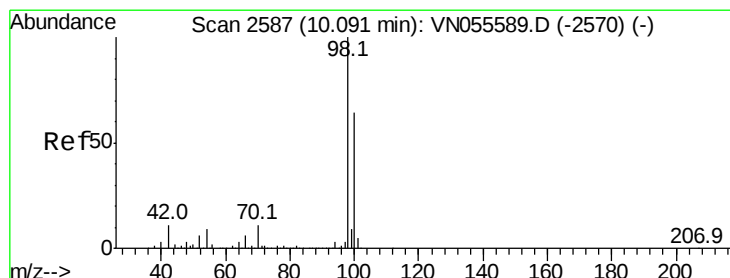
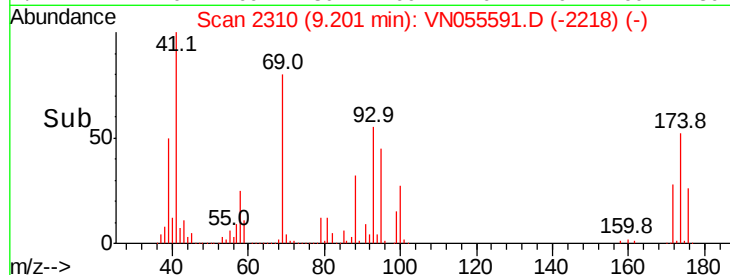
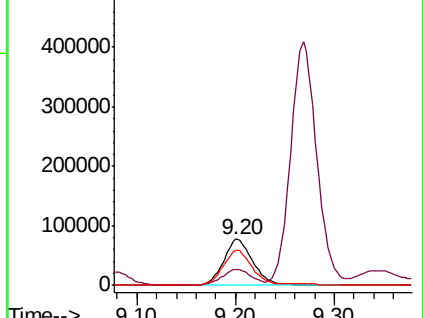
5/16/2019 1:31:58 PM



Abundance Ion 88.00 (87.70 to 88.70): VN055589.D (-2294) (-)

Ion 43.00 (42.70 to 43.70): VN055589.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VN055589.D (-2294) (-)



#50

Toluene-d8

Concen: 51.199 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055591.D

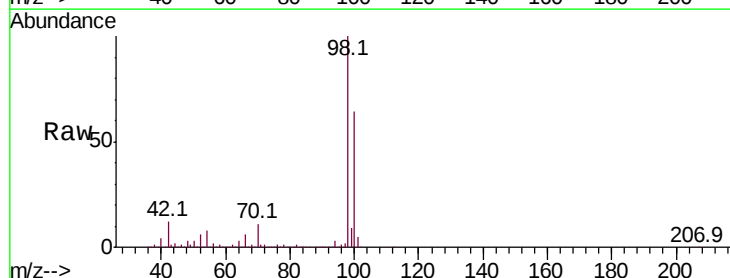
Acq: 14 May 2019 13:37

Tgt Ion: 98 Resp: 1613160

Ion Ratio Lower Upper

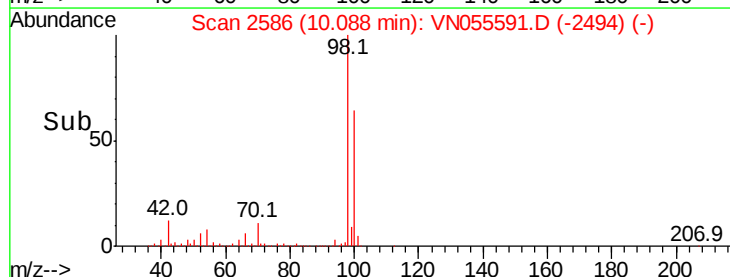
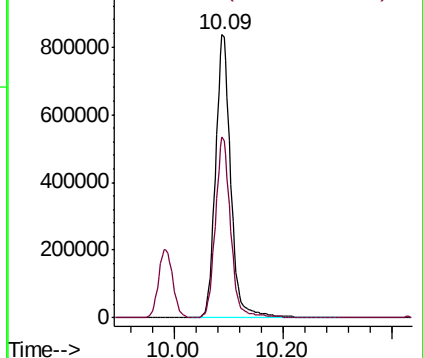
98 100

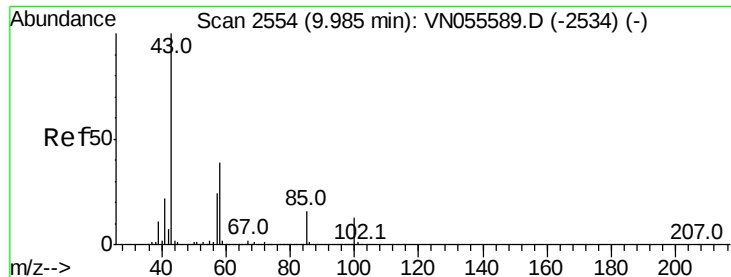
100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN055589.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055589.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 251.438 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 43 Resp: 2921278

Ion Ratio Lower Upper

43 100

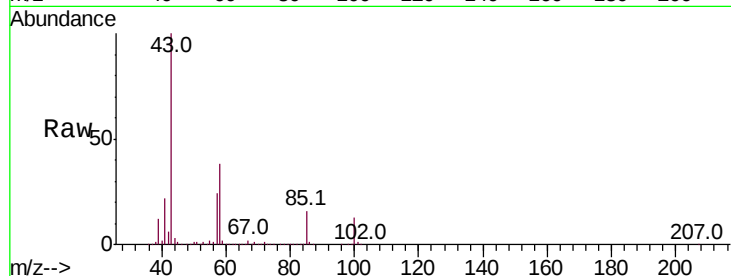
58 38.3 30.6 46.0

Manual Integrations

APPROVED

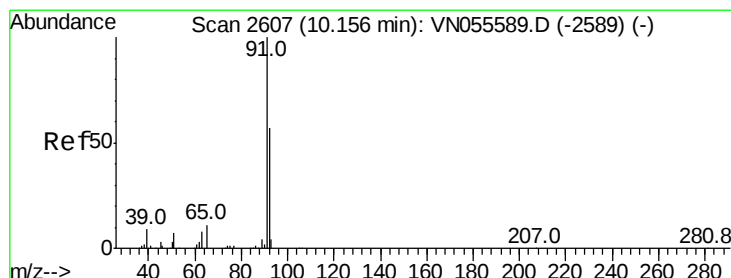
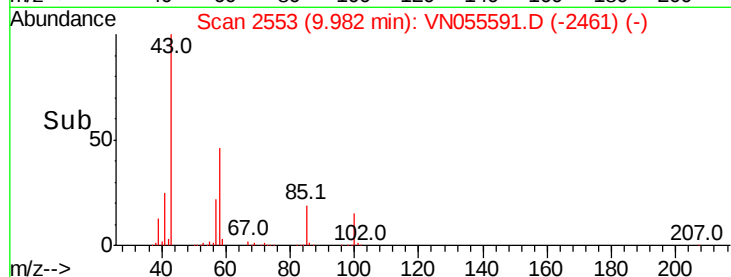
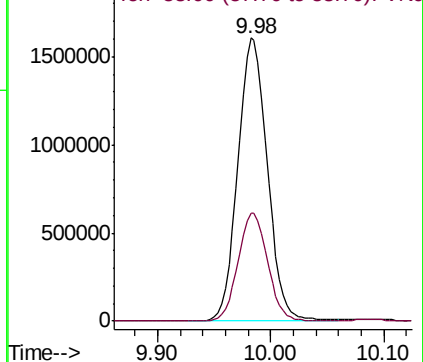
MMDadoda

5/16/2019 1:31:58 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 50.482 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN055591.D

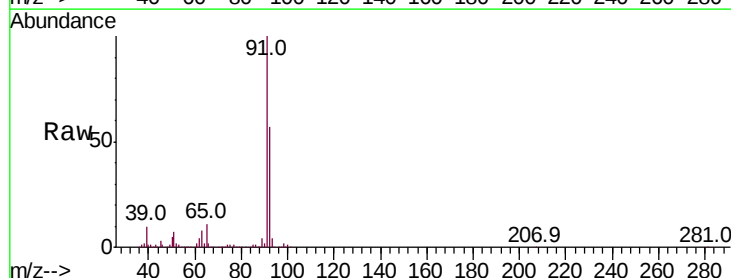
Acq: 14 May 2019 13:37

Tgt Ion: 92 Resp: 1111456

Ion Ratio Lower Upper

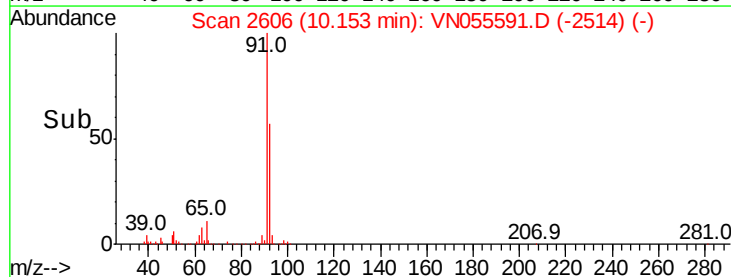
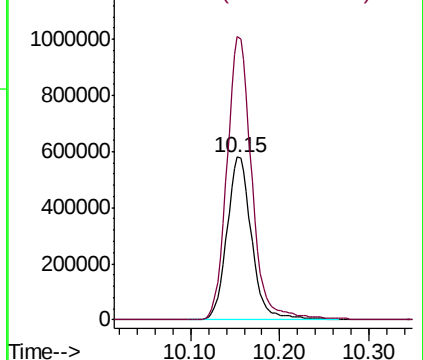
92 100

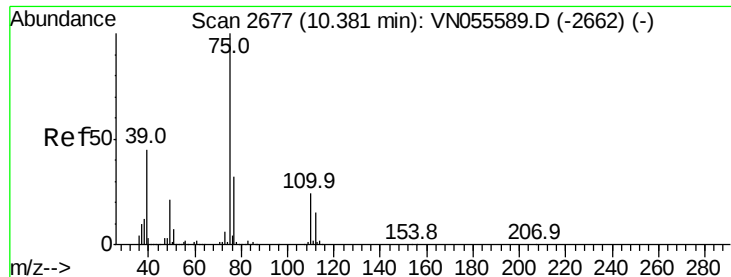
91 176.2 141.5 212.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 54.817 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICV051419

Tot Ion: 75 Resp: 626648

Ion Ratio Lower Upper

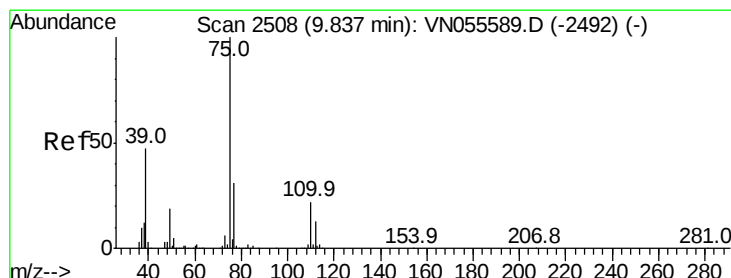
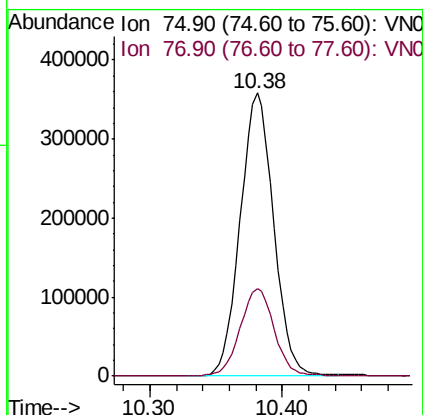
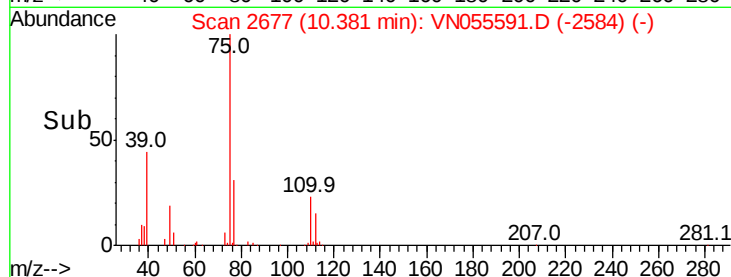
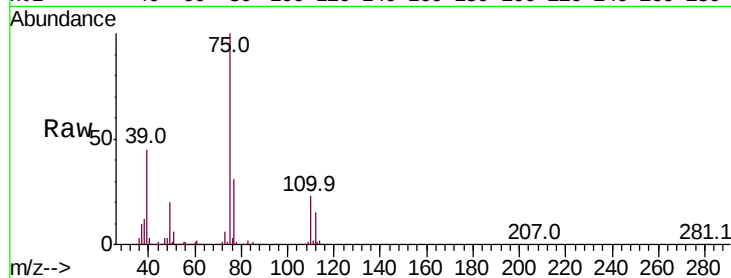
75 100

77 30.6 25.5 38.3

Manual Integrations
APPROVED

MMDadoda

5/16/2019 1:31:58 PM



#54

cis-1,3-Dichloropropene

Concen: 54.502 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

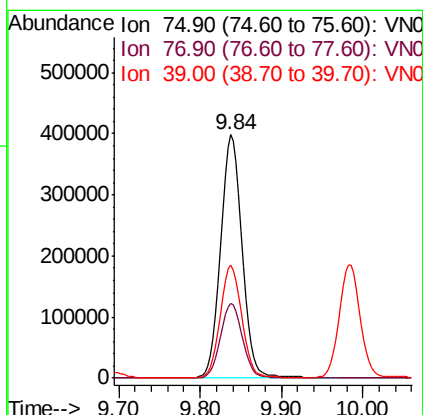
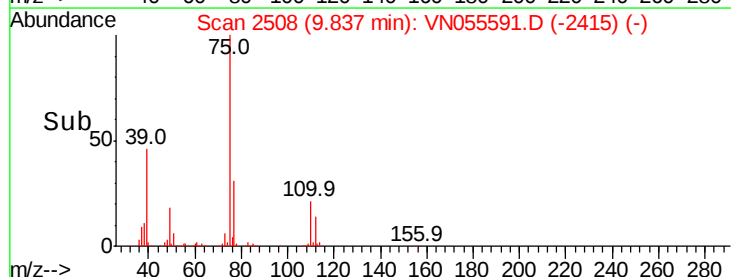
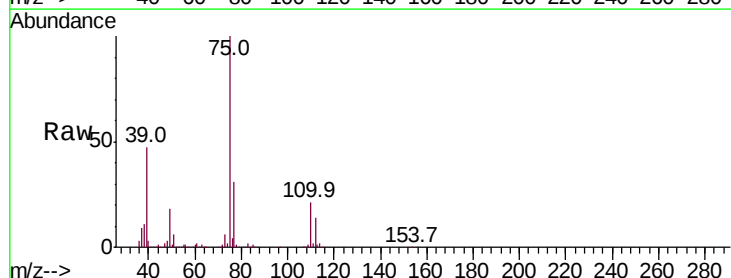
Tgt Ion: 75 Resp: 748126

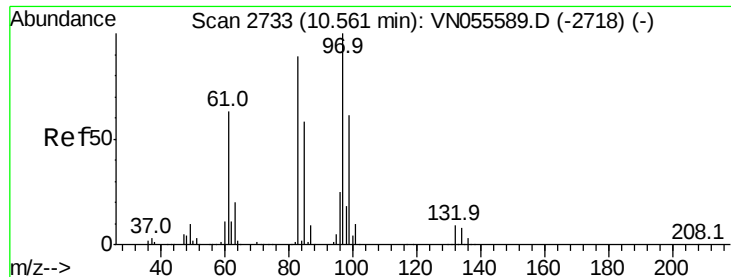
Ion Ratio Lower Upper

75 100

77 30.5 24.5 36.7

39 46.5 37.7 56.5





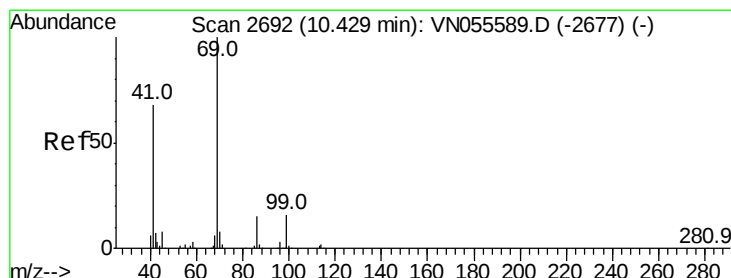
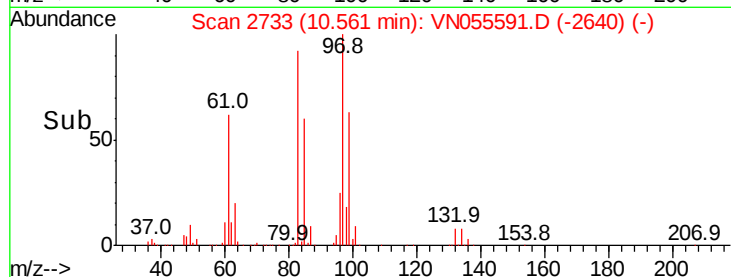
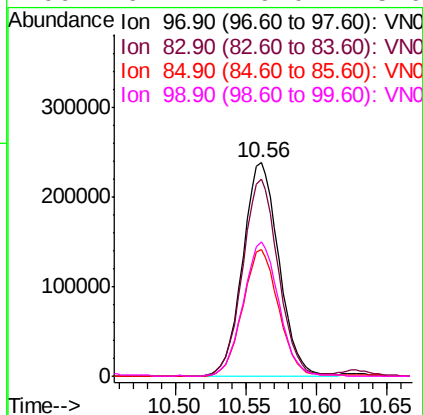
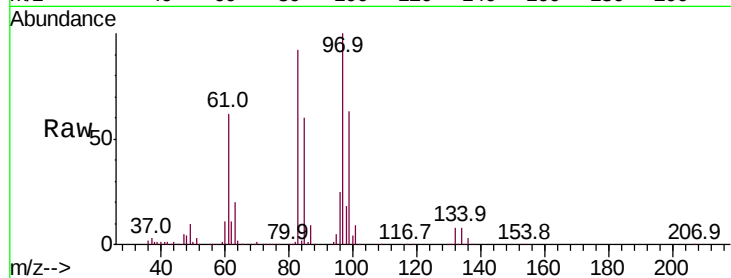
#55
 1,1,2-Trichloroethane
 Concen: 48.652 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051419

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		428251		
83	92.0	71.5	107.3		
85	59.5	46.2	69.4		
99	62.7	49.0	73.6		

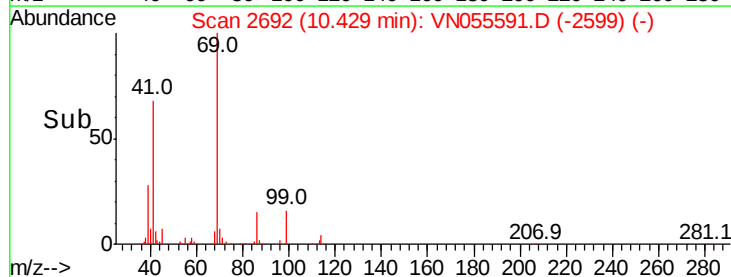
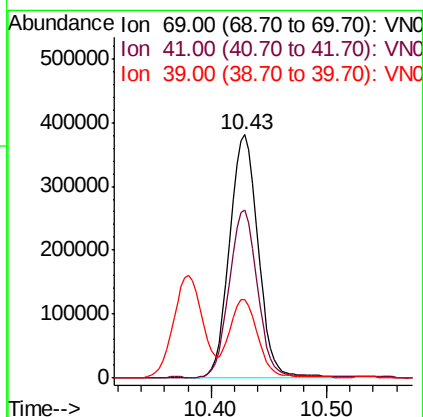
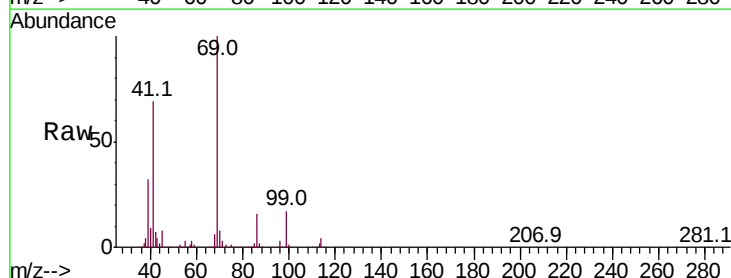
Manual Integrations
 APPROVED

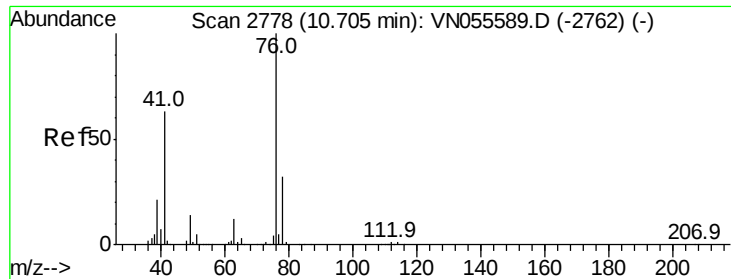
MMDadoda
 5/16/2019 1:31:58 PM



#56
 Ethyl methacrylate
 Concen: 53.150 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		651952		
41	67.3	54.6	82.0		
39	31.4	25.5	38.3		





#57

1,3-Dichloropropane

Concen: 50.221 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion: 76 Resp: 764177

Ion Ratio Lower Upper

76 100

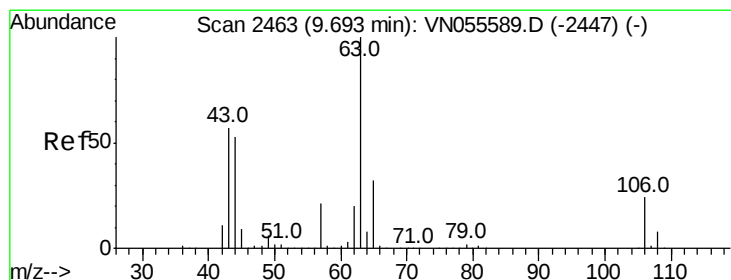
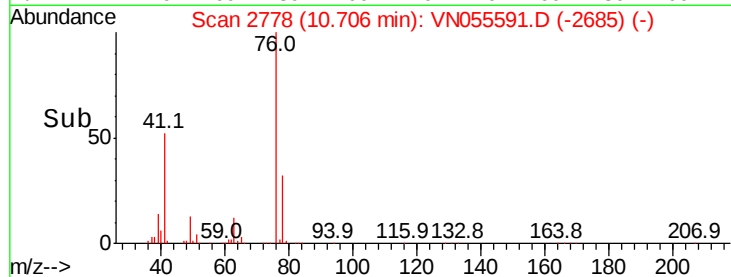
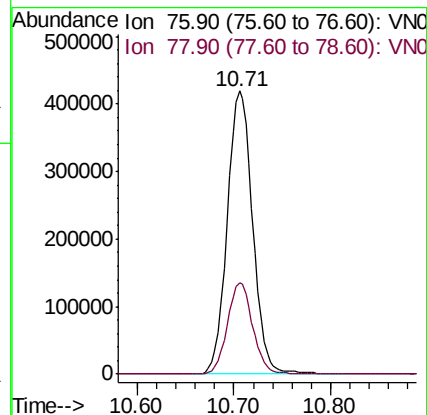
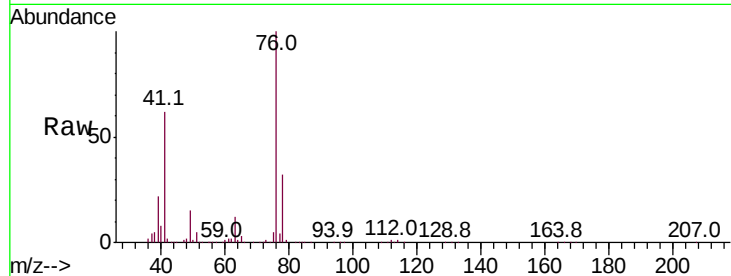
78 32.3 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

5/16/2019 1:31:58 PM



#58

2-Chloroethyl Vinyl ether

Concen: 239.116 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN055591.D

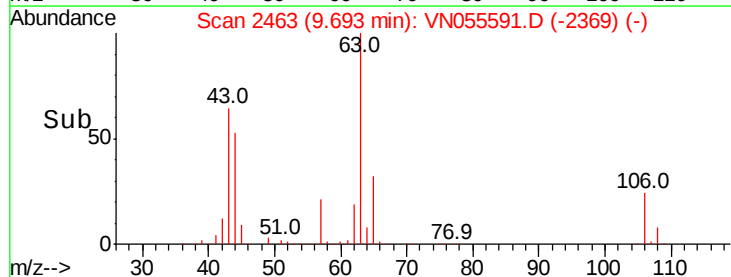
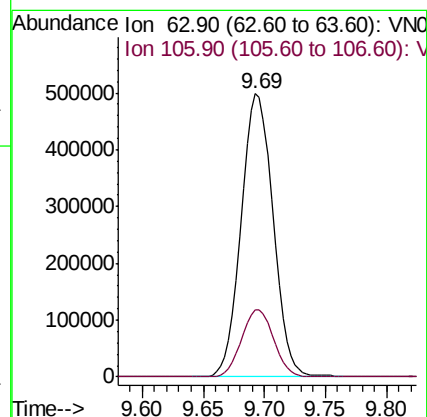
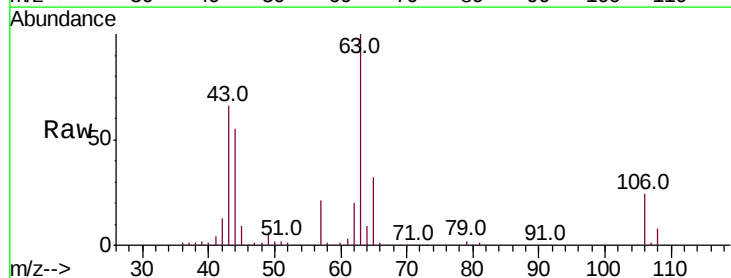
Acq: 14 May 2019 13:37

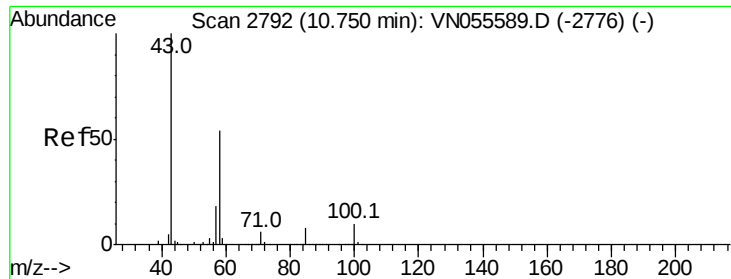
Tgt Ion: 63 Resp: 904207

Ion Ratio Lower Upper

63 100

106 23.9 19.0 28.4





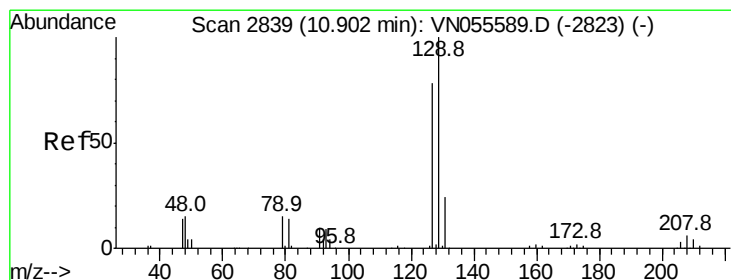
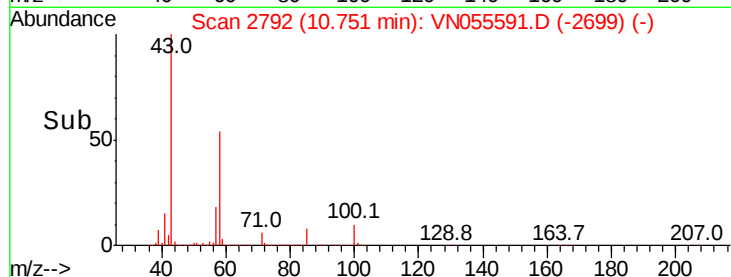
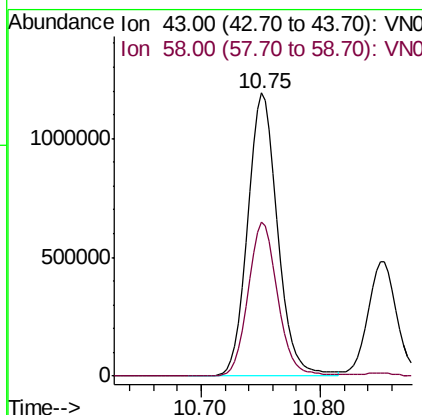
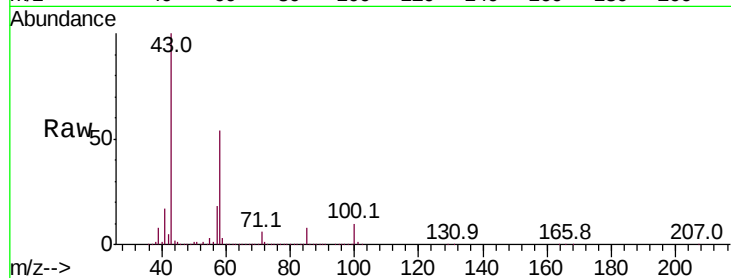
#59
2-Hexanone
Concen: 258.526 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampled :
ICV051419

Tot Ion: 43 Resp: 2072043
Ion Ratio Lower Upper
43 100
58 54.1 27.0 80.8

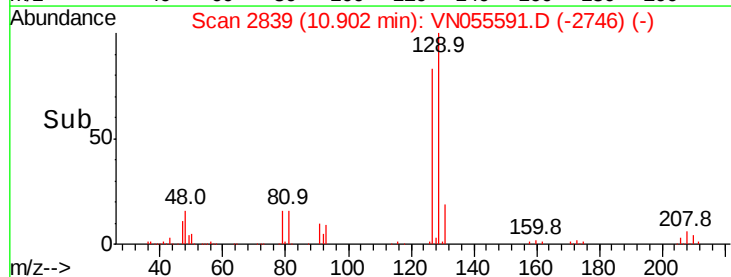
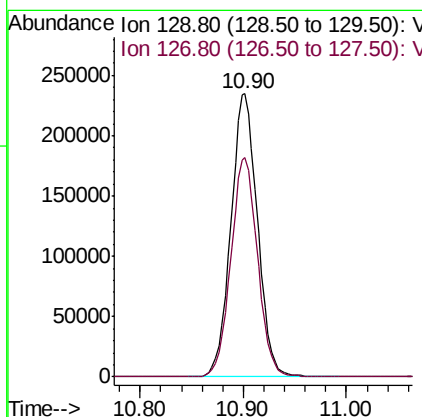
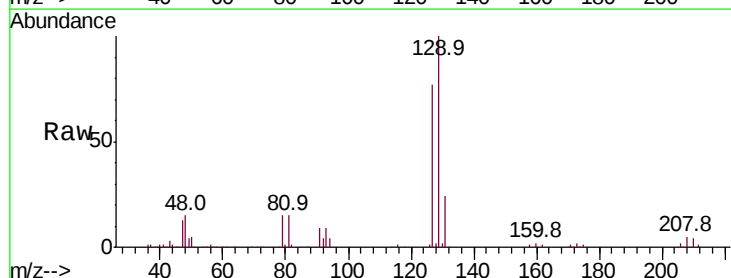
Manual Integrations
APPROVED

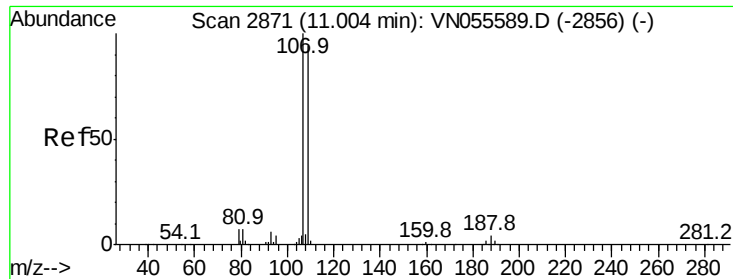
MMDadoda
5/16/2019 1:31:58 PM



#60
Dibromochloromethane
Concen: 52.722 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion: 129 Resp: 422122
Ion Ratio Lower Upper
129 100
127 77.6 39.1 117.2





#61

1,2-Dibromoethane

Concen: 51.486 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion:107 Resp: 428173

Ion Ratio Lower Upper

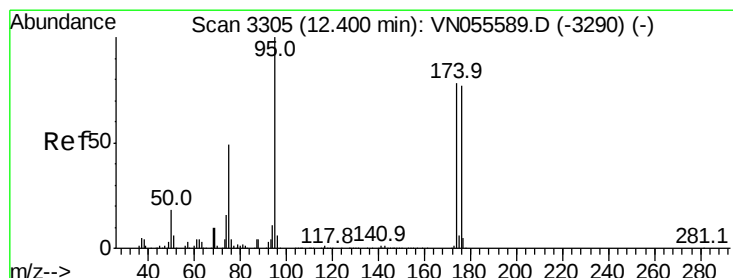
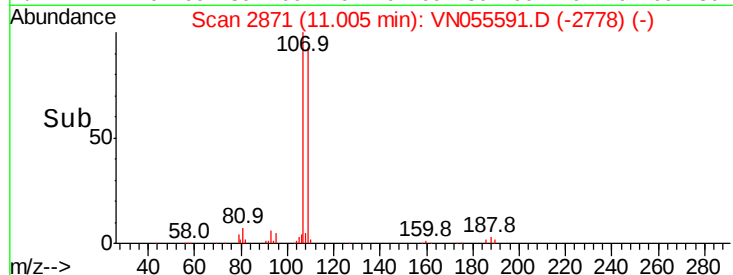
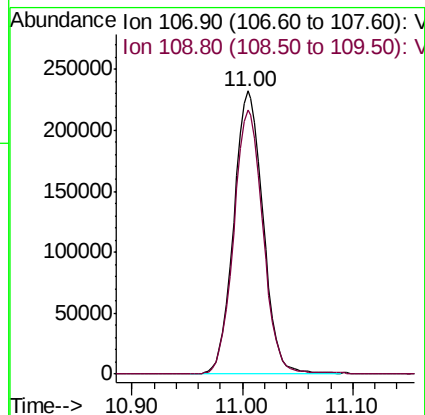
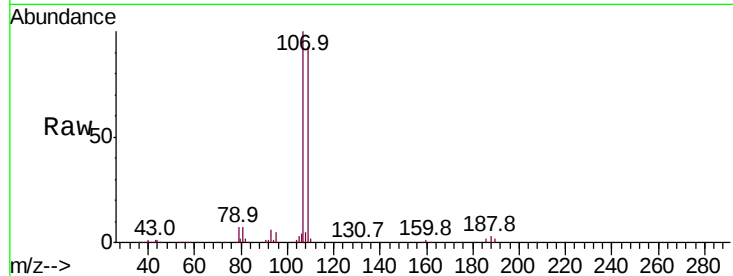
107 100

109 93.6 75.8 113.8

Manual Integrations
APPROVED

MMDadoda

5/16/2019 1:31:58 PM



#62

4-Bromofluorobenzene

Concen: 53.041 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

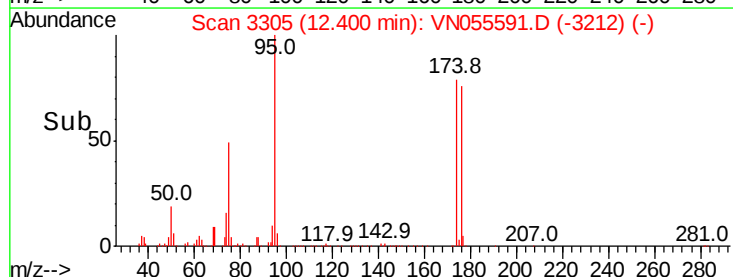
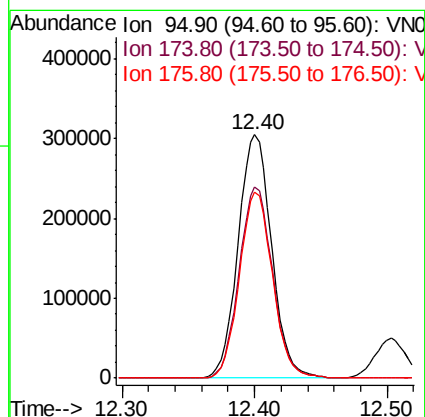
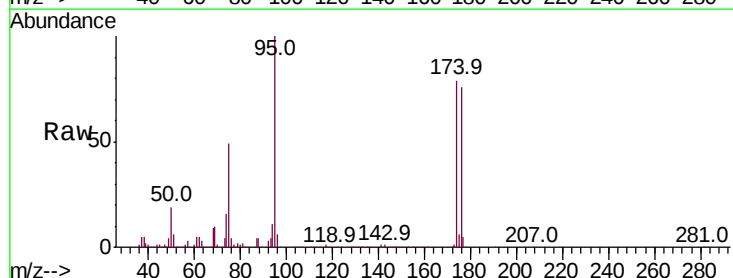
Tgt Ion: 95 Resp: 535470

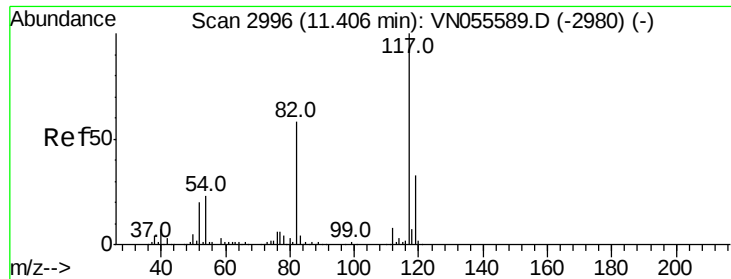
Ion Ratio Lower Upper

95 100

174 78.7 0.0 158.4

176 75.6 0.0 153.4





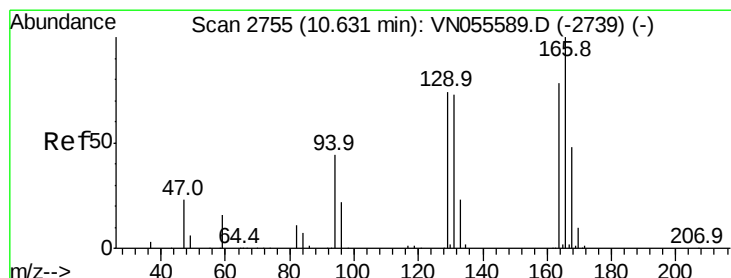
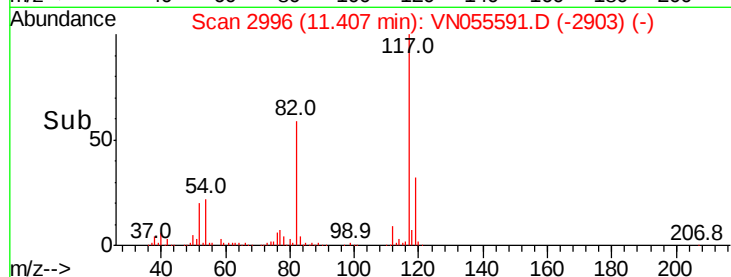
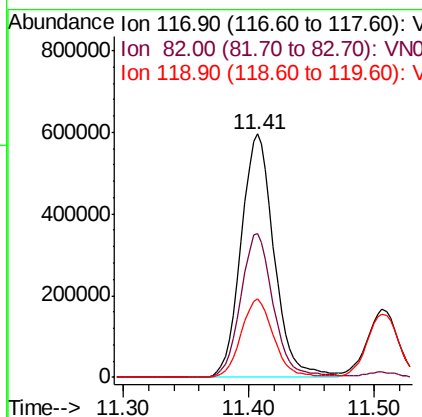
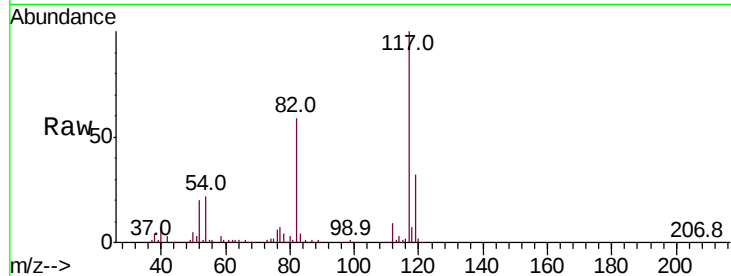
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion:117 Resp: 1093241
Ion Ratio Lower Upper
117 100
82 59.1 46.7 70.1
119 32.0 26.0 39.0

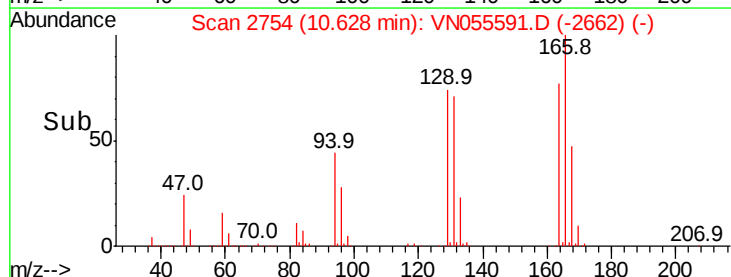
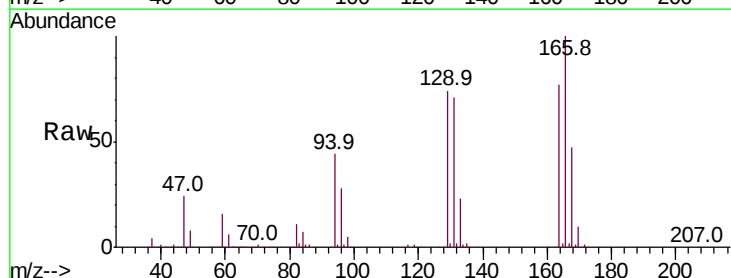
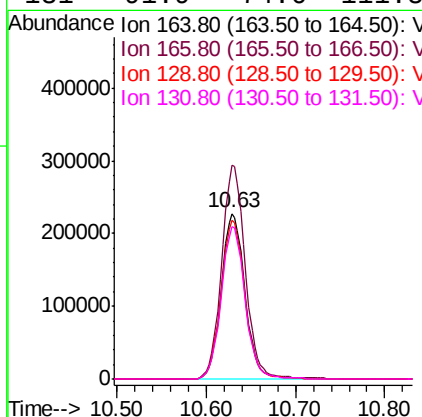
Manual Integrations
APPROVED

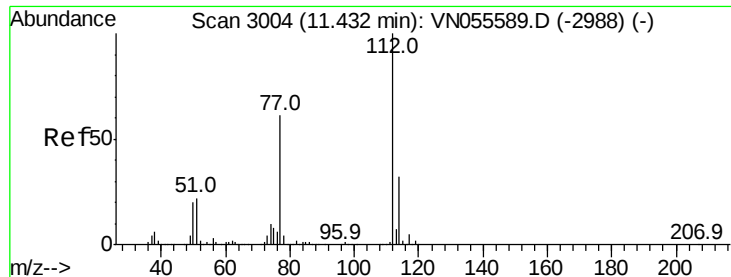
MMDadoda
5/16/2019 1:31:58 PM



#64
Tetrachloroethene
Concen: 47.962 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion:164 Resp: 418839
Ion Ratio Lower Upper
164 100
166 129.3 102.1 153.1
129 96.2 75.8 113.8
131 91.9 74.6 111.8





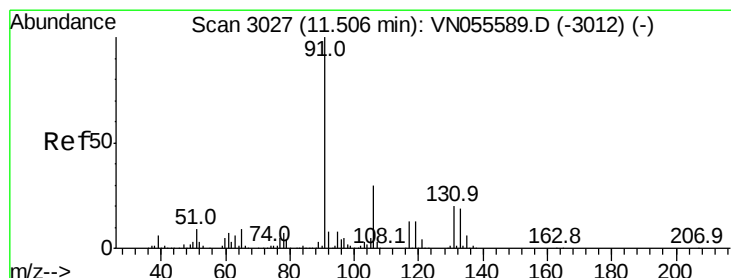
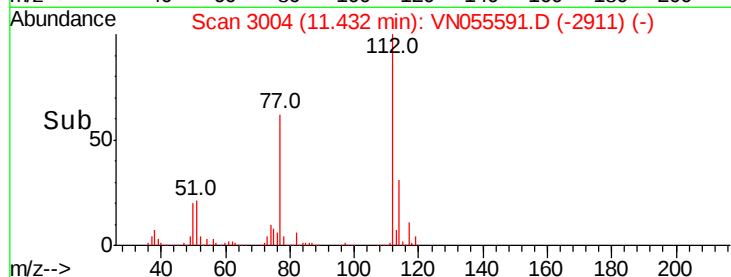
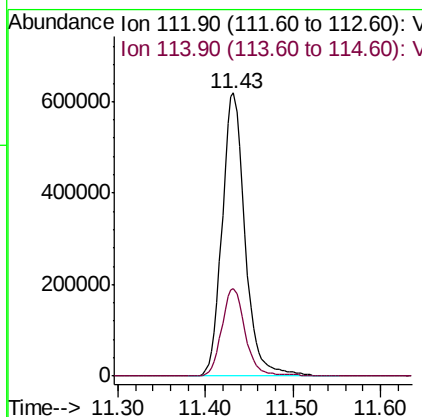
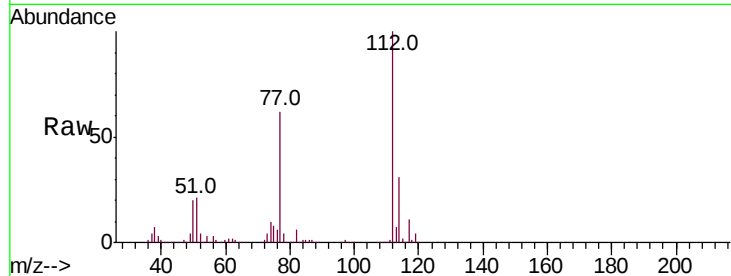
#65
Chlorobenzene
Concen: 49.674 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion:112 Resp: 1126929
Ion Ratio Lower Upper
112 100
114 30.7 25.4 38.2

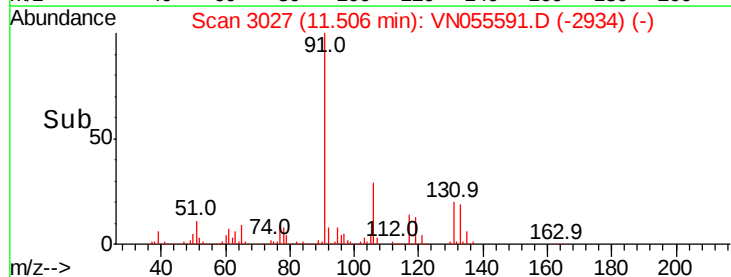
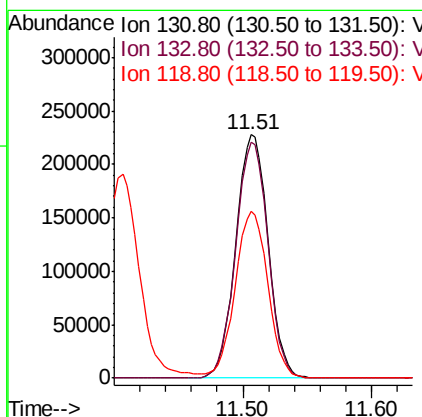
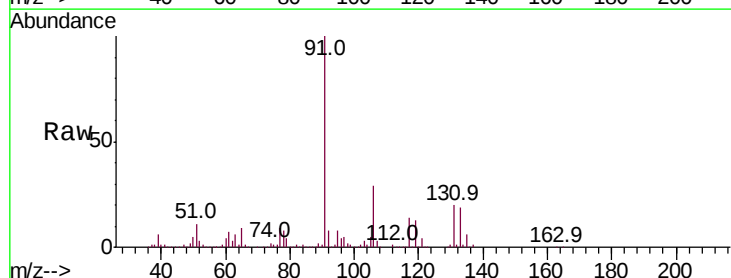
Manual Integrations
APPROVED

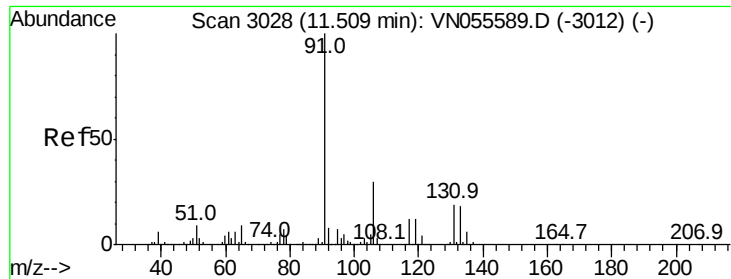
MMDadoda
5/16/2019 1:31:58 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.999 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion:131 Resp: 396609
Ion Ratio Lower Upper
131 100
133 96.8 47.6 142.9
119 69.4 34.2 102.5





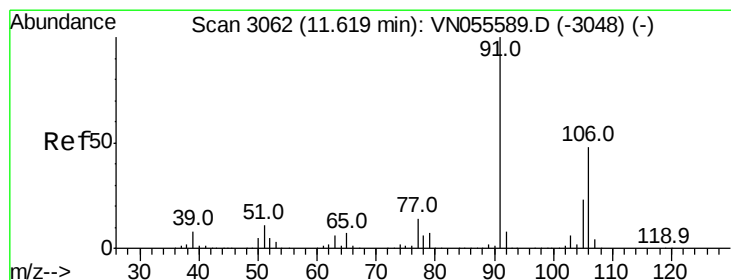
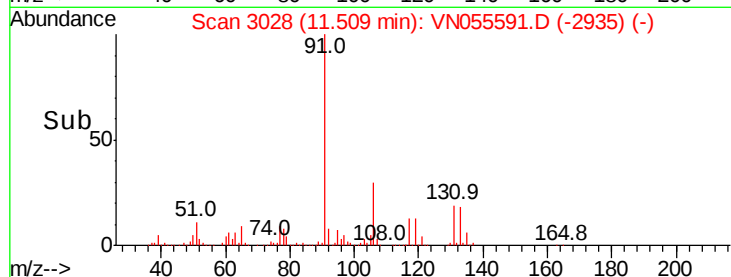
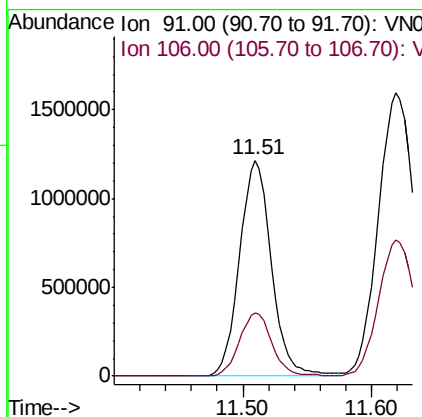
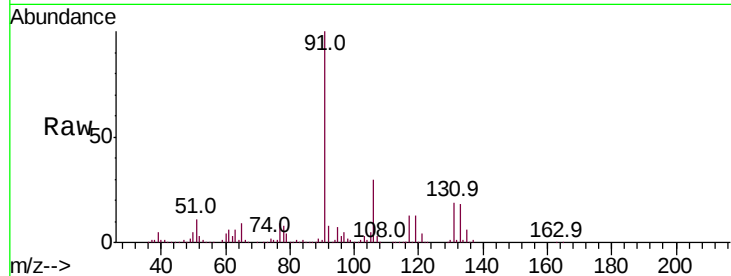
#67
Ethyl Benzene
Concen: 51.404 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion: 91 Resp: 2091547
Ion Ratio Lower Upper
91 100
106 29.6 24.1 36.1

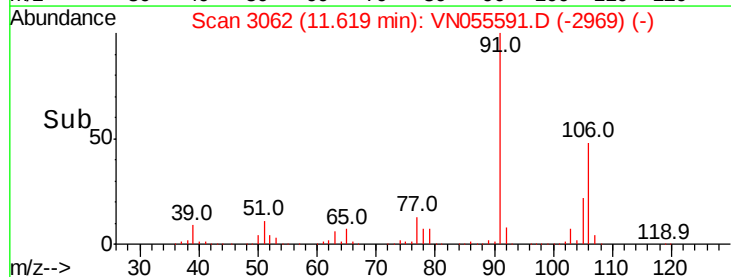
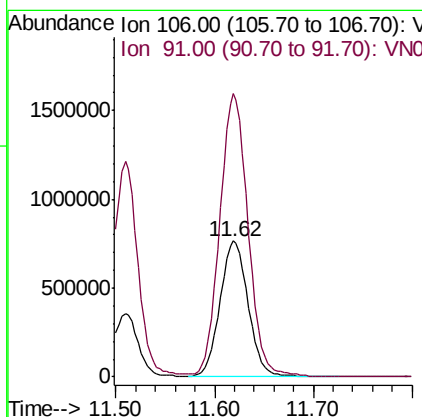
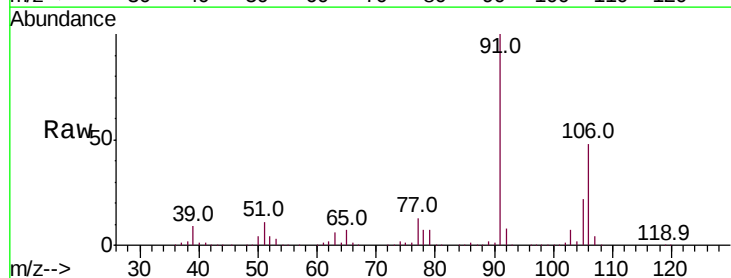
Manual Integrations
APPROVED

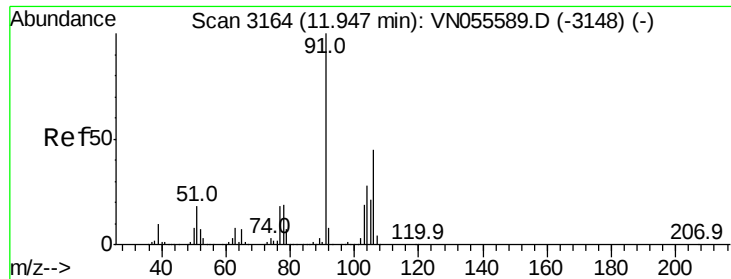
MMDadoda
5/16/2019 1:31:58 PM



#68
m/p-Xylenes
Concen: 103.375 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion: 106 Resp: 1537431
Ion Ratio Lower Upper
106 100
91 208.6 167.5 251.3





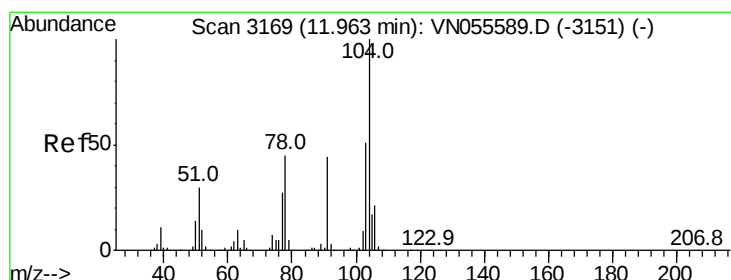
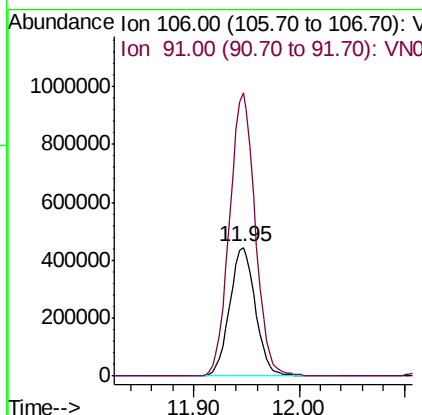
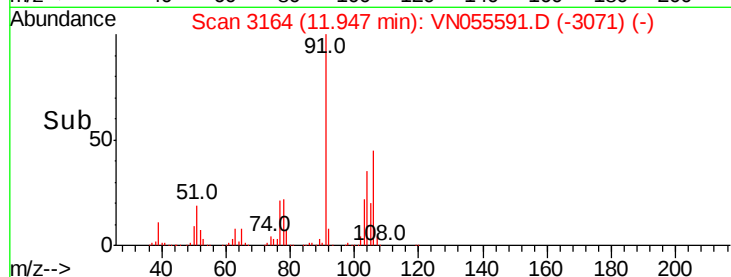
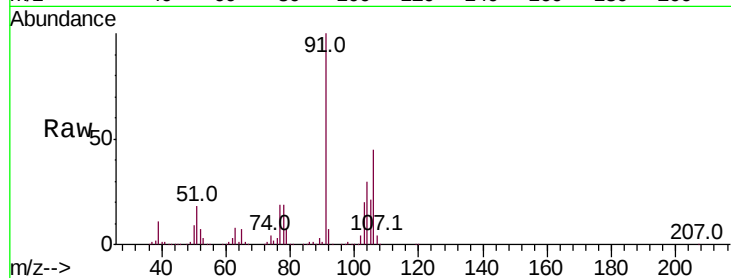
#69
o-Xylene
Concen: 51.619 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampled :
ICVVN051419

Tot Ion:106 Resp: 747079
Ion Ratio Lower Upper
106 100
91 220.3 110.2 330.6

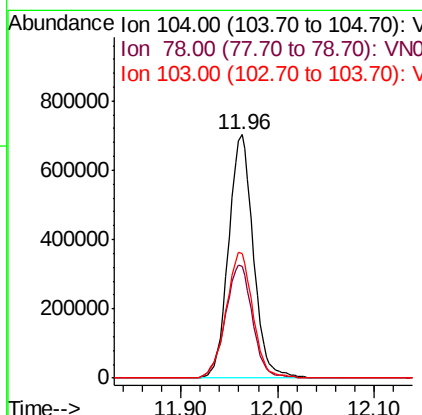
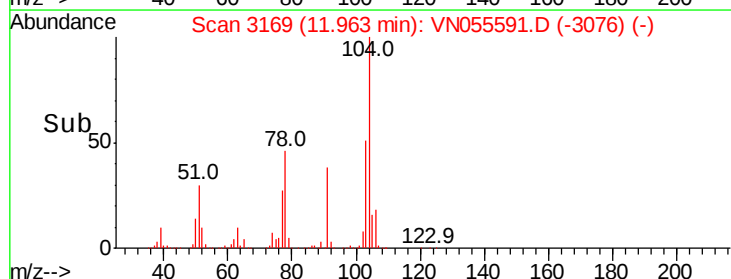
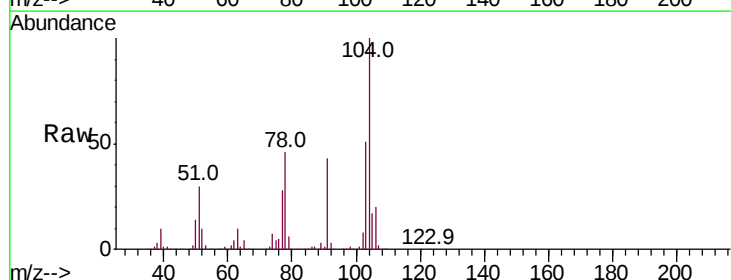
Manual Integrations
APPROVED

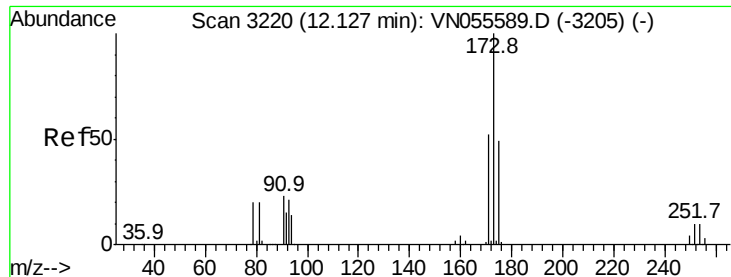
MMDadoda
5/16/2019 1:31:58 PM



#70
Styrene
Concen: 54.186 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion:104 Resp: 1247188
Ion Ratio Lower Upper
104 100
78 51.2 40.8 61.2
103 55.7 44.6 67.0





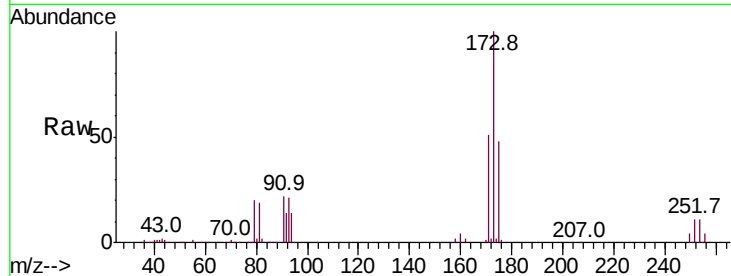
#71
Bromoform
Concen: 54.771 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.4	73.4
254	0.2	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM

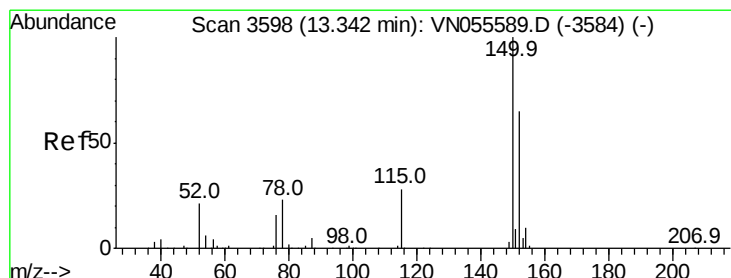
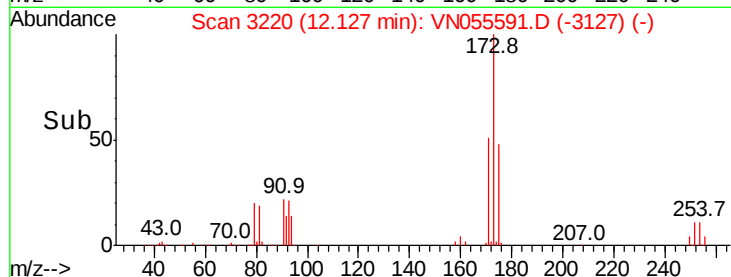
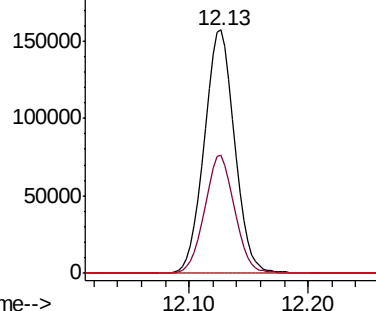


Abundance

Ion 172.70 (172.40 to 173.40): V

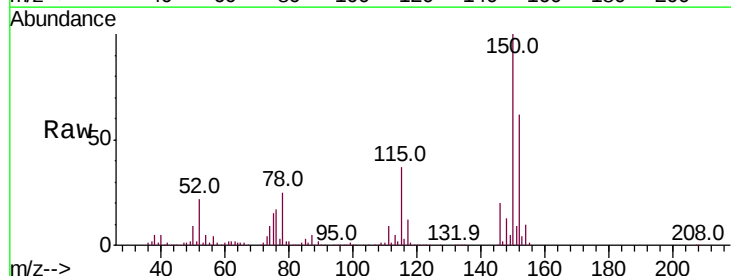
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.8	29.8	89.4
150	174.2	0.0	346.6

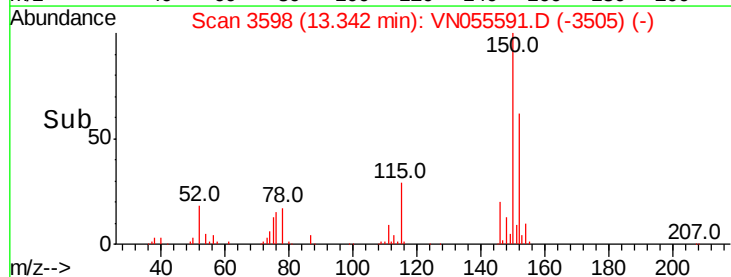
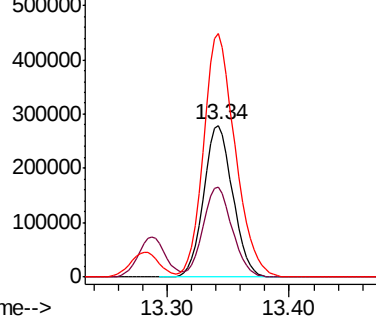


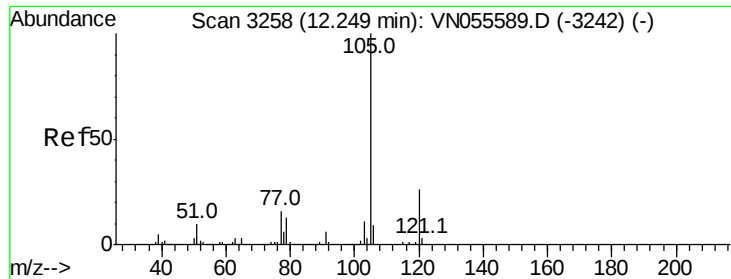
Abundance

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





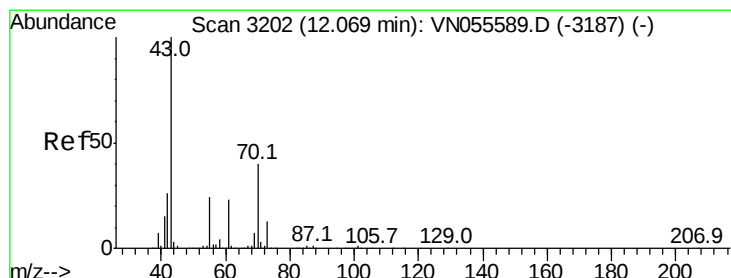
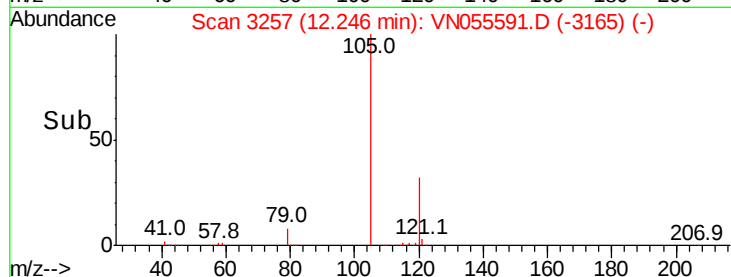
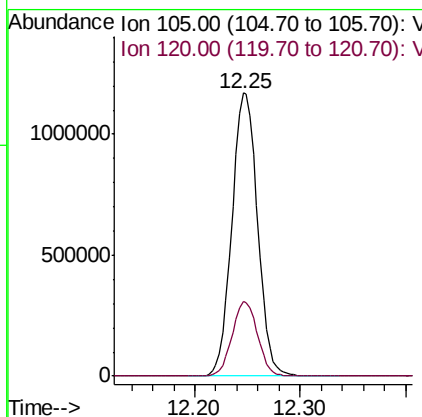
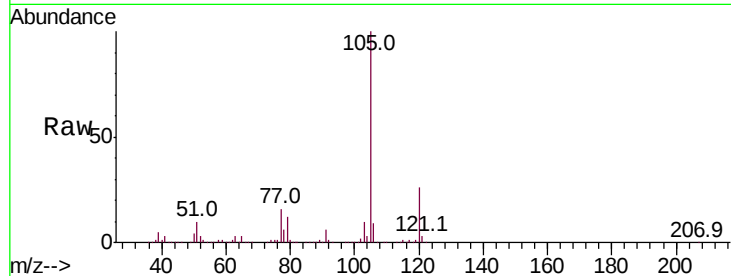
#73
Isopropylbenzene
Concen: 43.603 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampled :
ICVVN051419

Tot Ion:105 Resp: 1964669
Ion Ratio Lower Upper
105 100
120 26.2 13.0 39.0

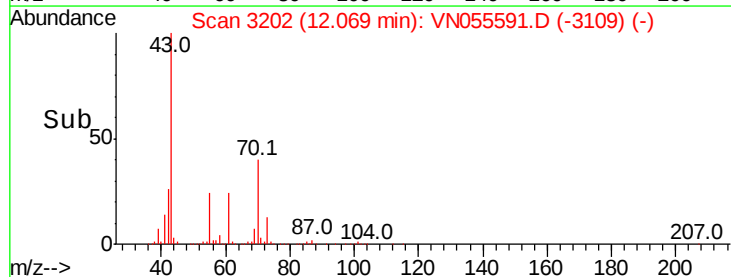
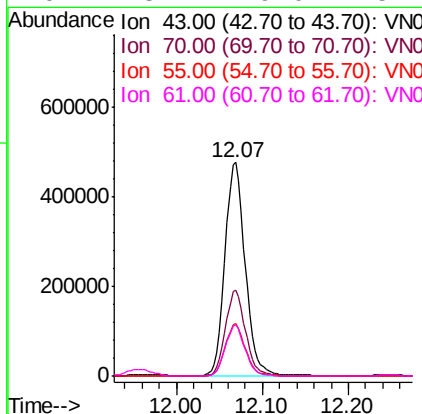
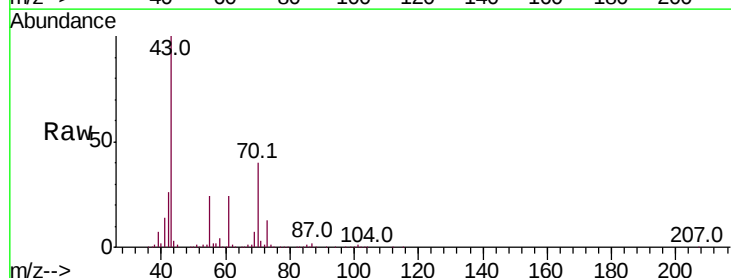
Manual Integrations
APPROVED

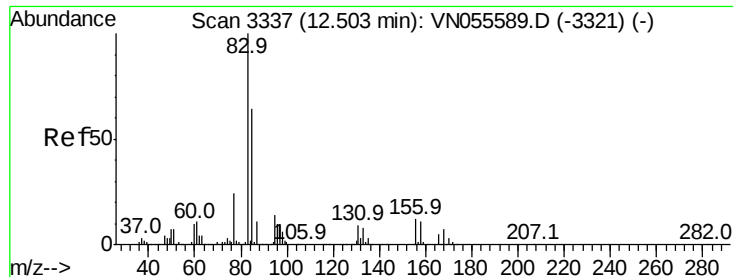
MMDadoda
5/16/2019 1:31:58 PM



#74
N-ethyl acetate
Concen: 49.118 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion: 43 Resp: 781004
Ion Ratio Lower Upper
43 100
70 40.0 31.8 47.6
55 24.4 19.7 29.5
61 23.7 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 51.333 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

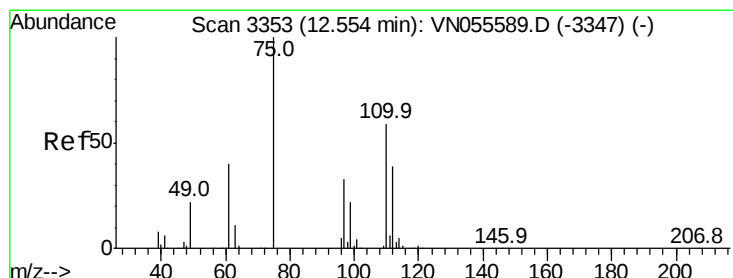
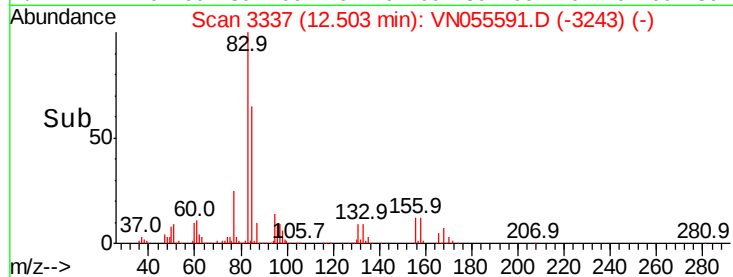
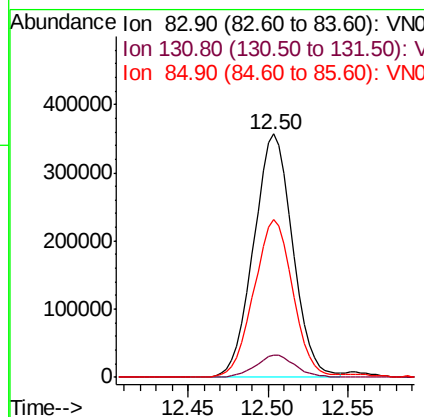
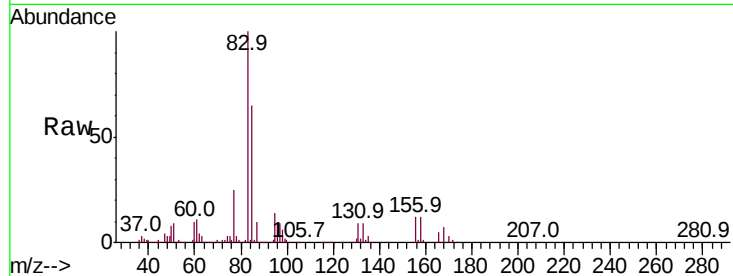
ClientSampleId :

ICVVN051419

Tot Ion:	83	Resp:	598406
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.6	13.8
85	64.6	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM



#76

1,2,3-Trichloropropane

Concen: 46.225 ug/l m

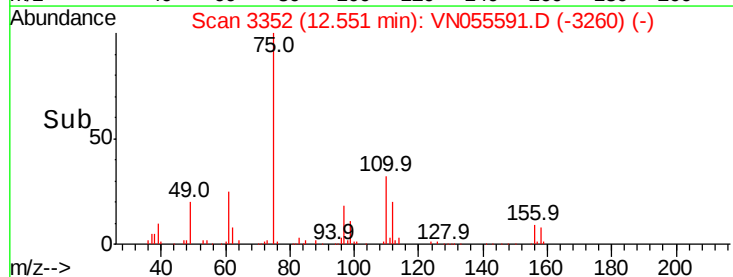
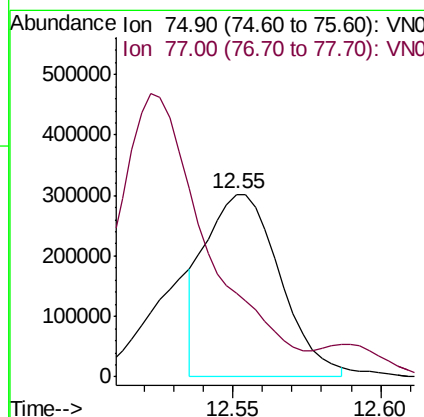
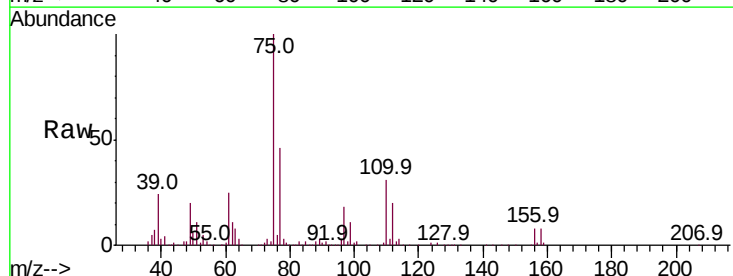
RT: 12.55 min Scan# 3352

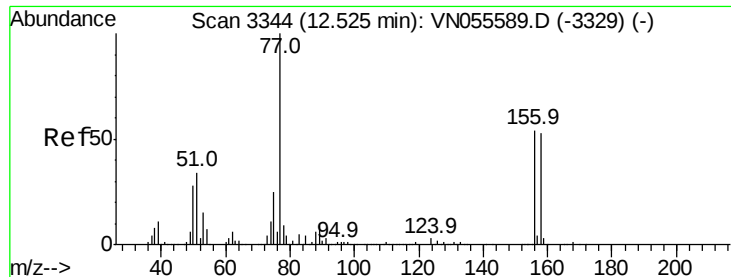
Delta R.T. -0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Tgt Ion:	75	Resp:	527302
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 50.825 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

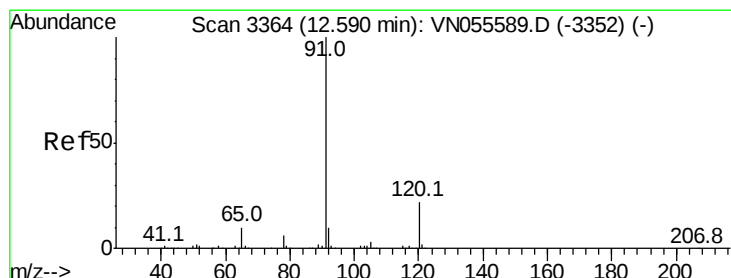
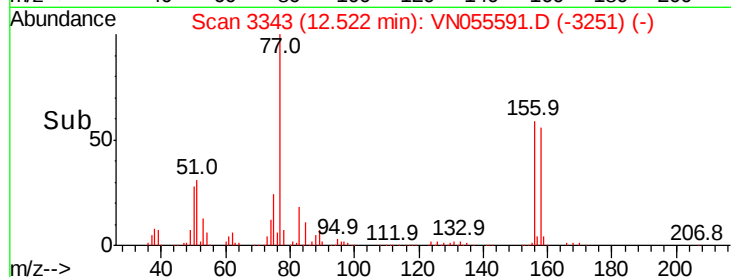
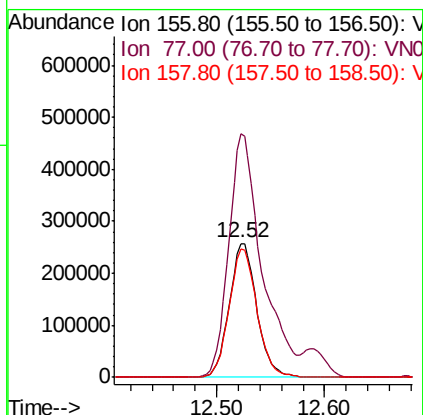
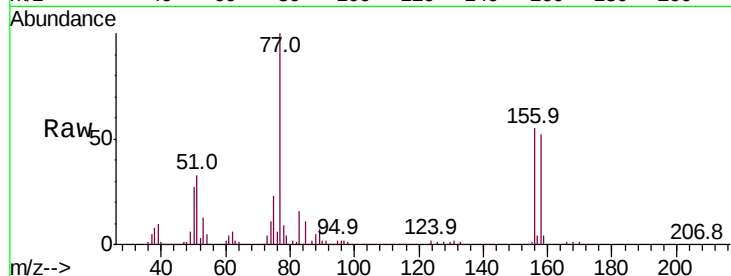
ClientSampleId :

ICVVN051419

Tot Ion	Ratio	Lower	Upper
156	100		
77	218.9	108.9	326.7
158	97.2	48.1	144.3

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM



#78

n-propylbenzene

Concen: 46.966 ug/l

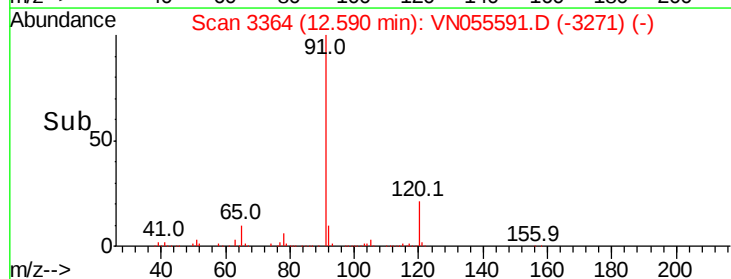
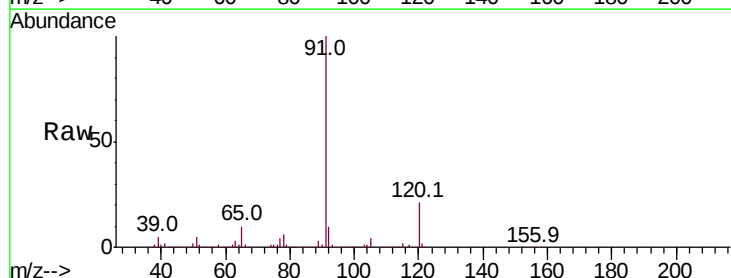
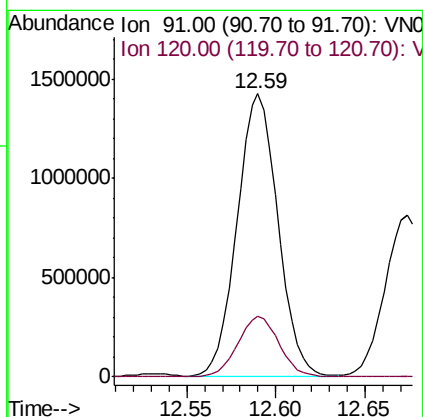
RT: 12.59 min Scan# 3364

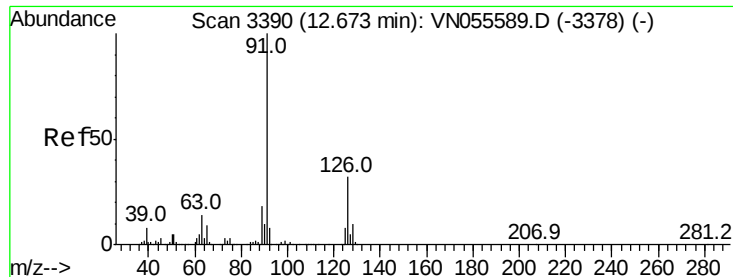
Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.0	33.0





#79

2-Chlorotoluene

Concen: 44.365 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICV051419

Tot Ion: 91 Resp: 1355719

Ion Ratio Lower Upper

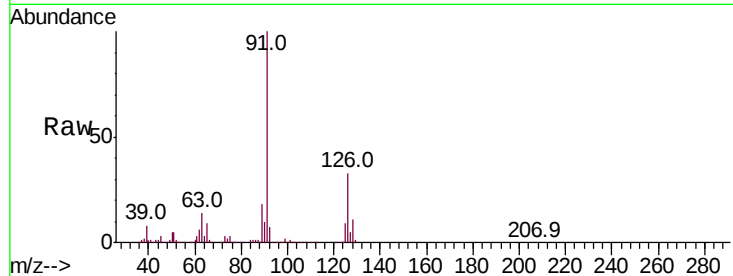
91 100

126 33.5 16.6 49.7

Manual Integrations
APPROVED

MMDadoda

5/16/2019 1:31:58 PM



Abundance Ion 91.00 (90.70 to 91.70): VN055589.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055589.D (-3378) (-)

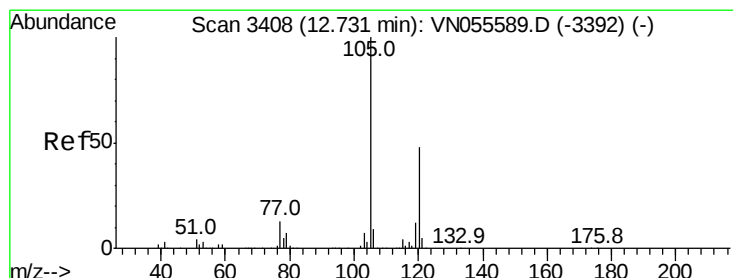
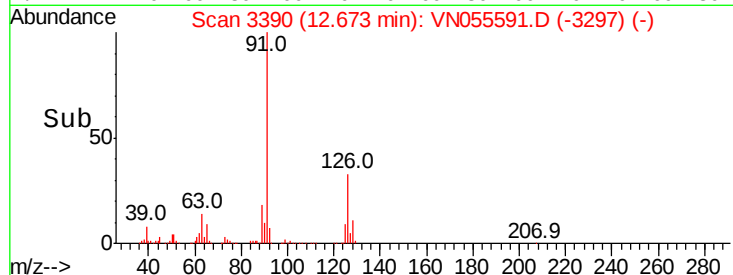
1000000

500000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 46.506 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055591.D

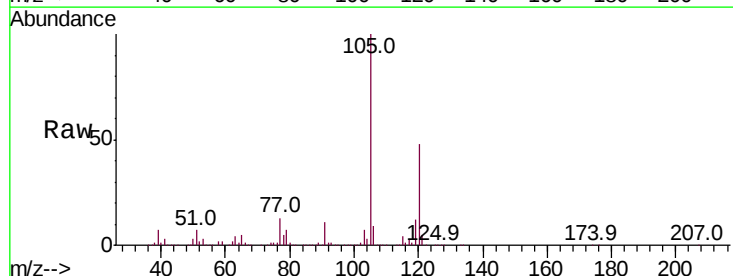
Acq: 14 May 2019 13:37

Tgt Ion:105 Resp: 1656329

Ion Ratio Lower Upper

105 100

120 47.6 23.8 71.2



Abundance Ion 105.00 (104.70 to 105.70): VN055589.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN055589.D (-3392) (-)

1200000

1000000

800000

600000

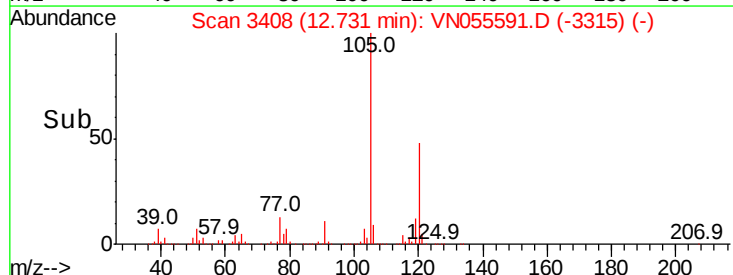
400000

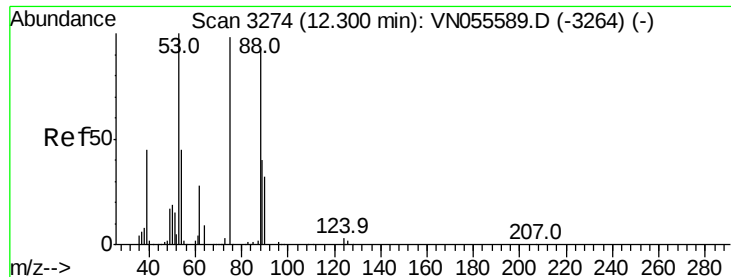
200000

0

12.70 12.80

Time-->





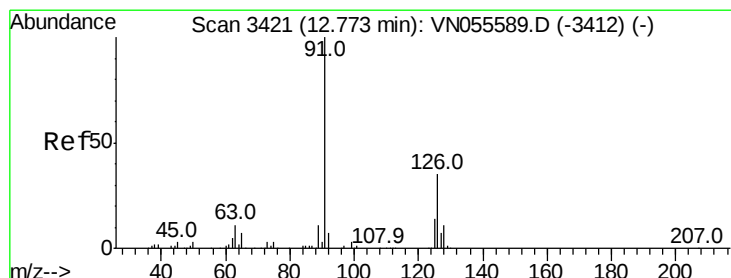
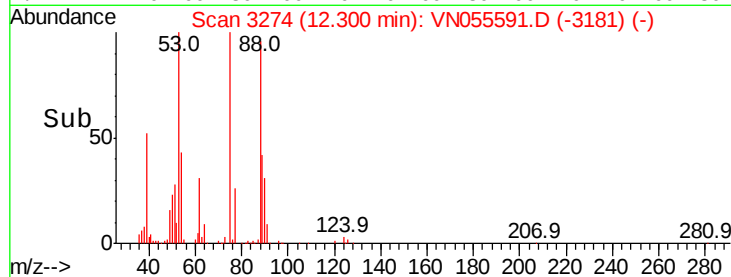
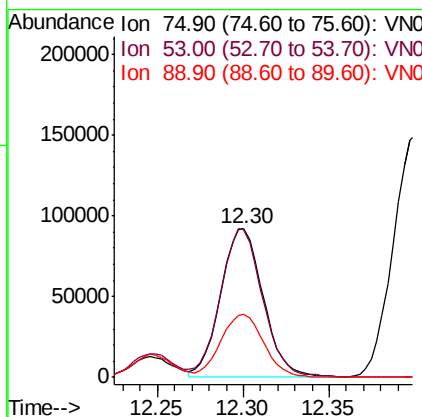
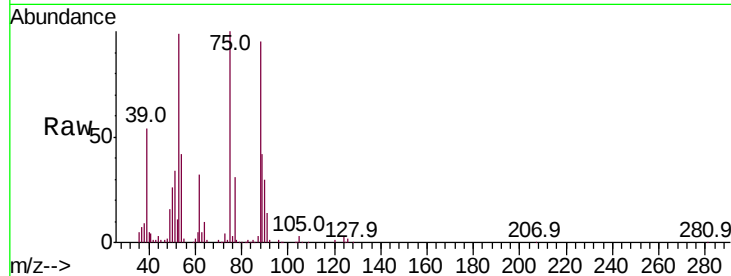
#81
trans-1,4-Dichloro-2-butene
Concen: 48.863 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.8	83.9	125.9
89	43.4	34.7	52.1

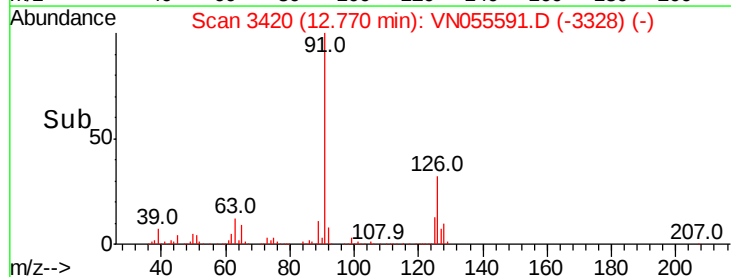
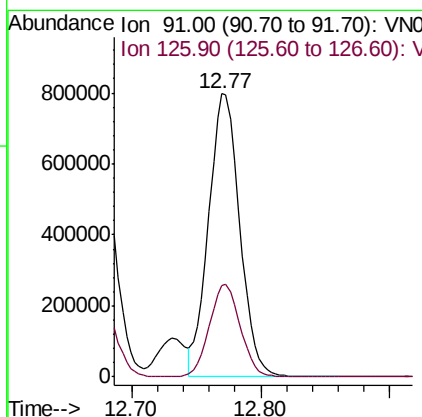
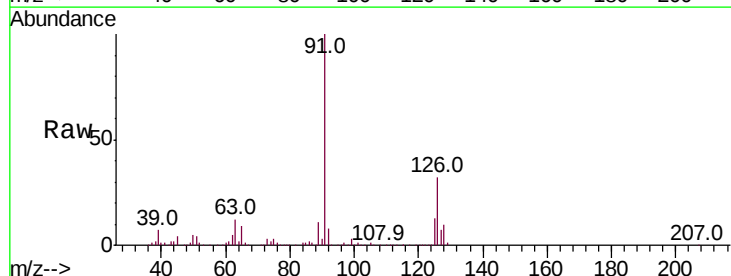
Manual Integrations
APPROVED

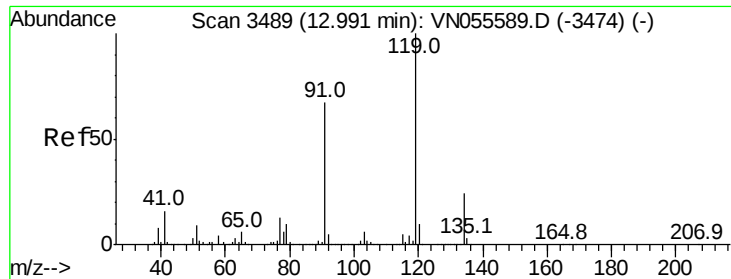
MMDadoda
5/16/2019 1:31:58 PM



#82
4-Chlorotoluene
Concen: 47.024 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.2	48.6





#83

tert-Butylbenzene

Concen: 44.342 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055591.D

Acq: 14 May 2019 13:37

Instrument :

MSVOA_N

ClientSampleId :

ICVVN051419

Tot Ion:119 Resp: 1370847

Ion Ratio Lower Upper

119 100

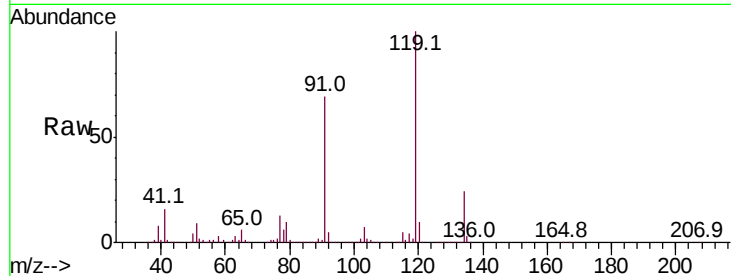
91 67.6 33.5 100.4

134 23.9 12.7 38.1

Manual Integrations
APPROVED

MMDadoda

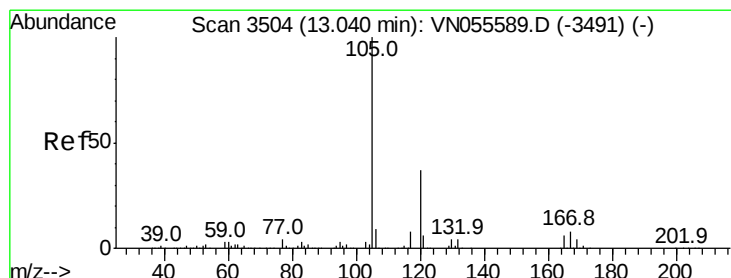
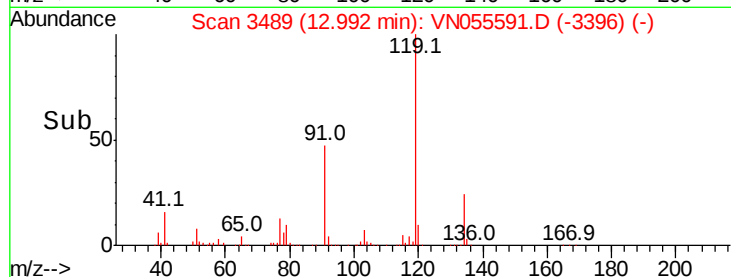
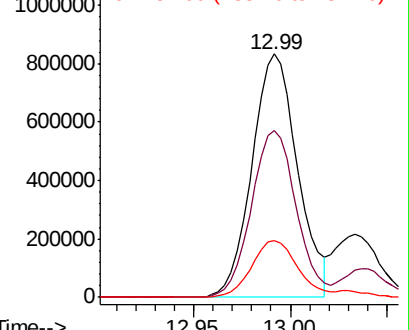
5/16/2019 1:31:58 PM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 48.618 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN055591.D

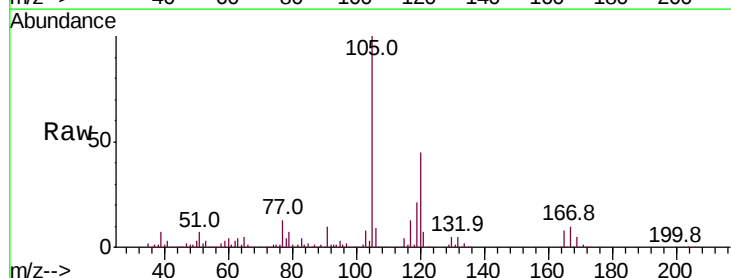
Acq: 14 May 2019 13:37

Tgt Ion:105 Resp: 1599116

Ion Ratio Lower Upper

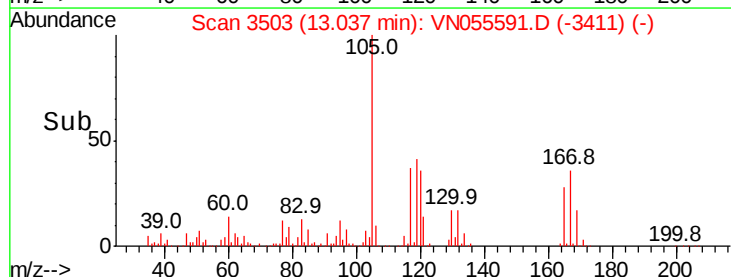
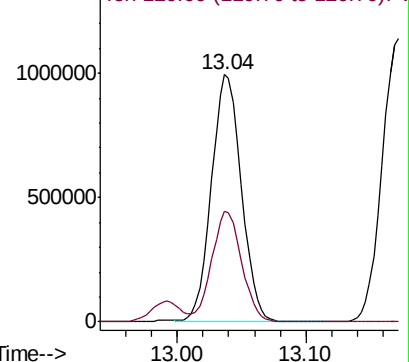
105 100

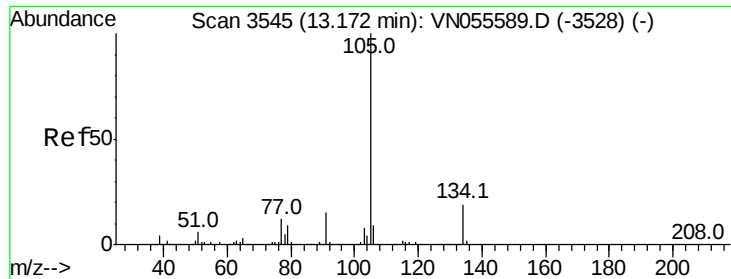
120 44.4 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





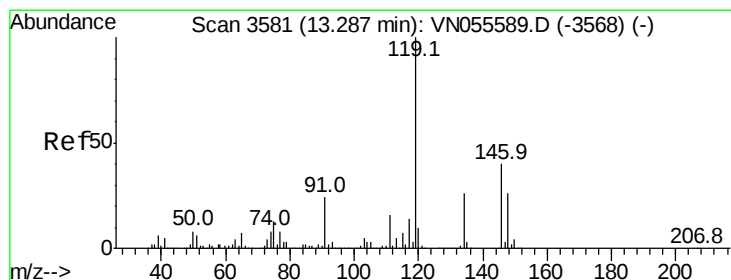
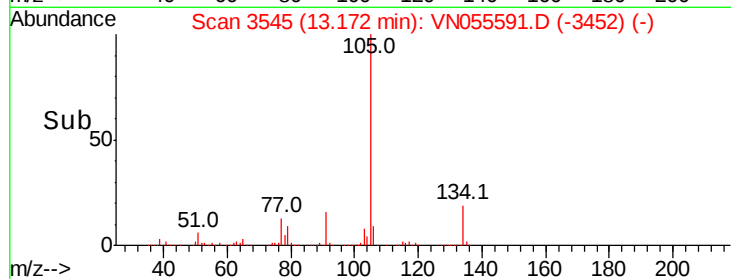
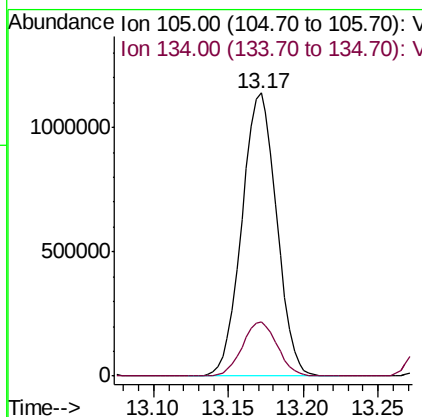
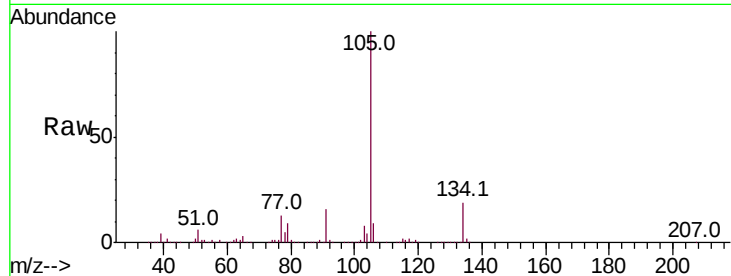
#85
 sec-Butylbenzene
 Concen: 46.297 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051419

Tot Ion:105 Resp: 1843360
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.7 29.1

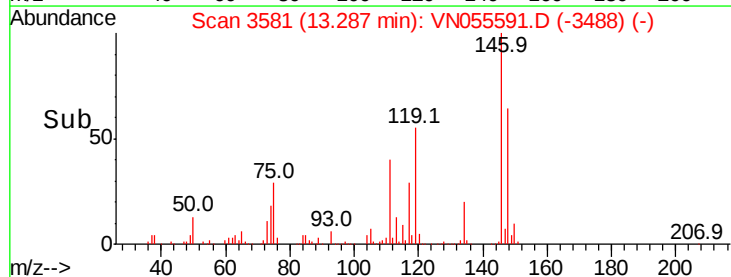
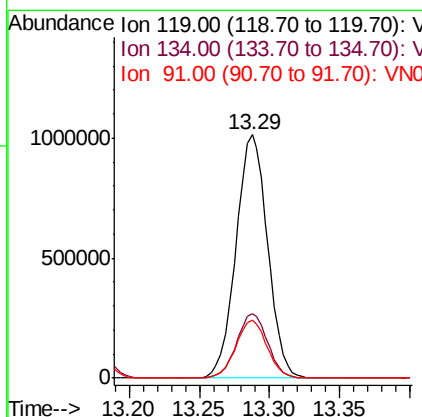
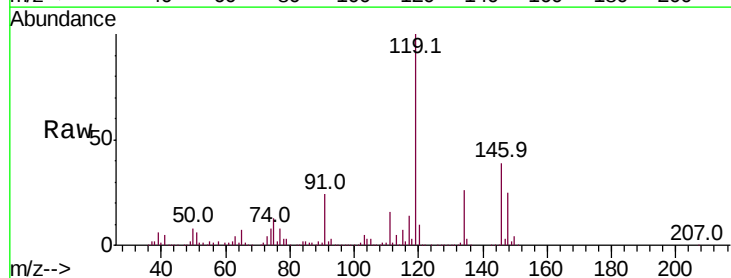
Manual Integrations
 APPROVED

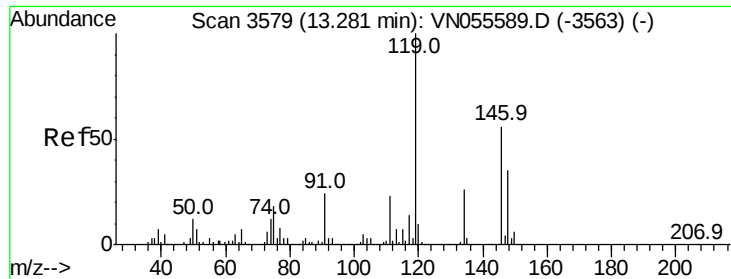
MMDadoda
 5/16/2019 1:31:58 PM



#86
 p-Isopropyltoluene
 Concen: 49.042 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Tgt Ion:119 Resp: 1583266
 Ion Ratio Lower Upper
 119 100
 134 26.2 13.0 39.0
 91 23.4 11.9 35.5





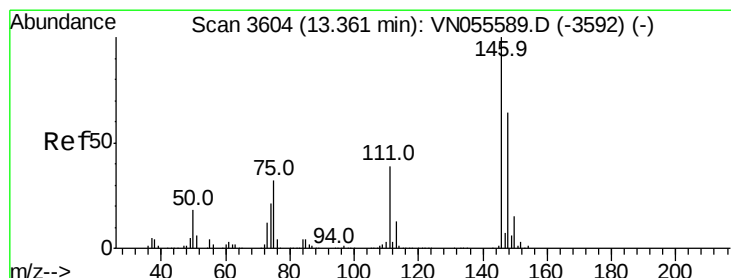
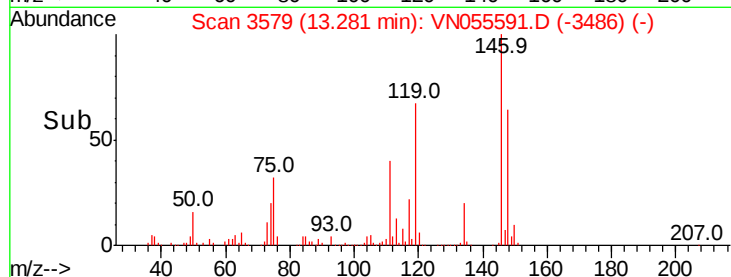
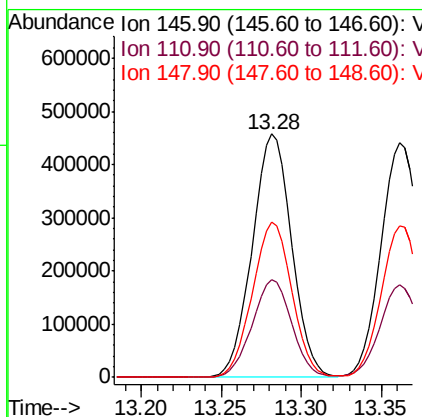
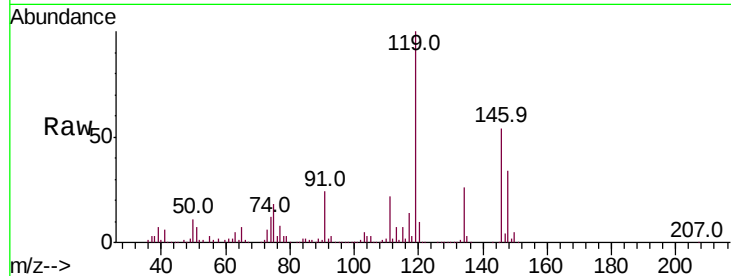
#87
 1,3-Dichlorobenzene
 Concen: 48.722 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051419

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.5	61.5
148	64.0	32.3	96.9

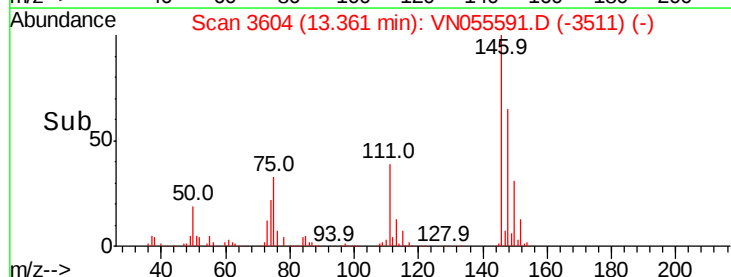
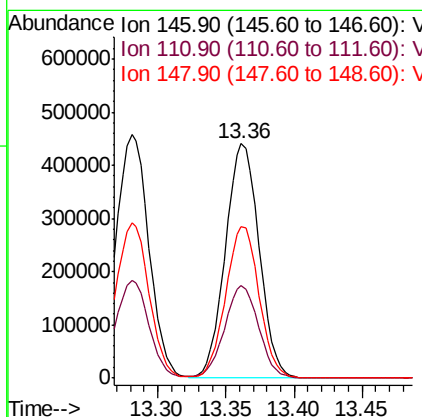
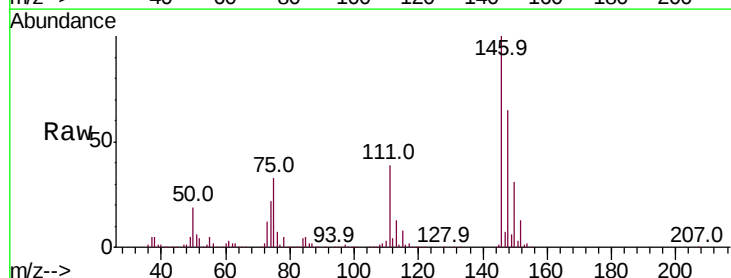
Manual Integrations
 APPROVED

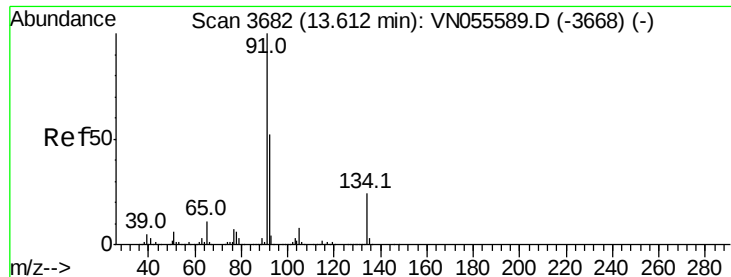
MMDadoda
 5/16/2019 1:31:58 PM



#88
 1,4-Dichlorobenzene
 Concen: 48.185 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.7	59.0
148	64.1	31.8	95.4





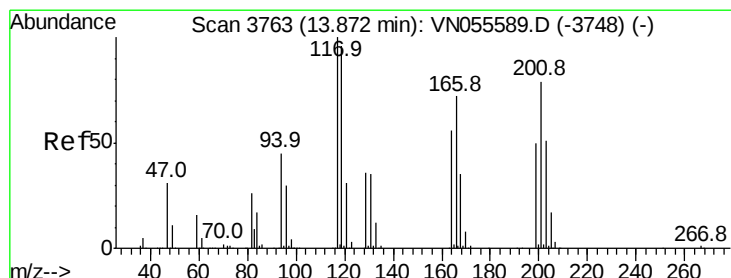
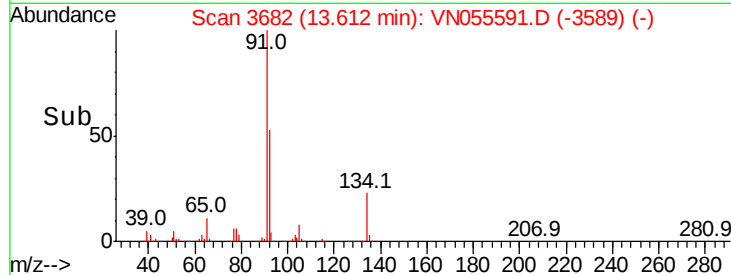
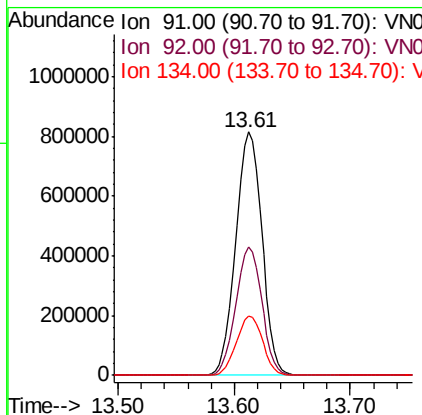
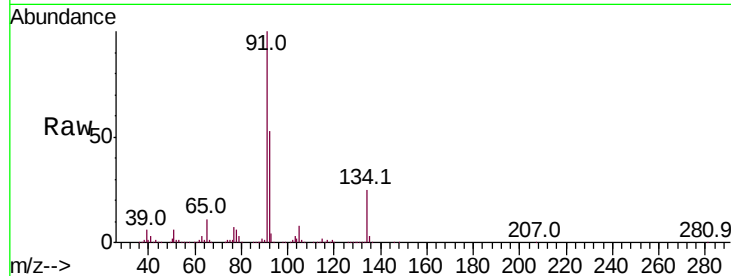
#89
n-Butylbenzene
Concen: 53.458 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	25.9	77.8
134	24.4	12.2	36.4

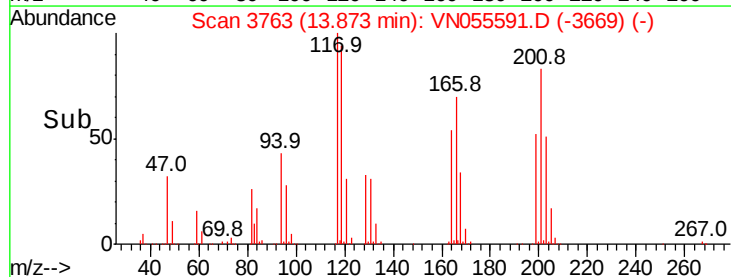
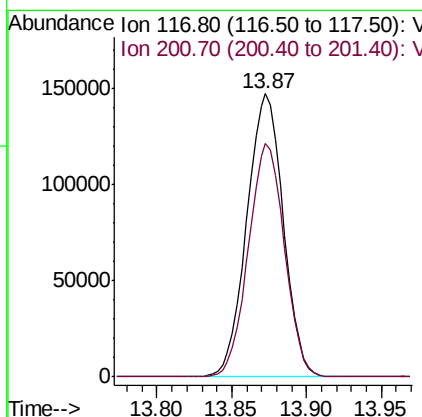
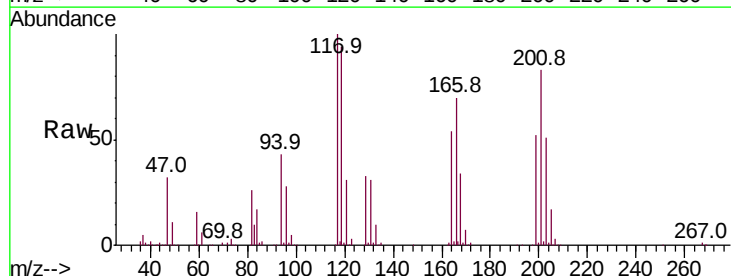
Manual Integrations
APPROVED

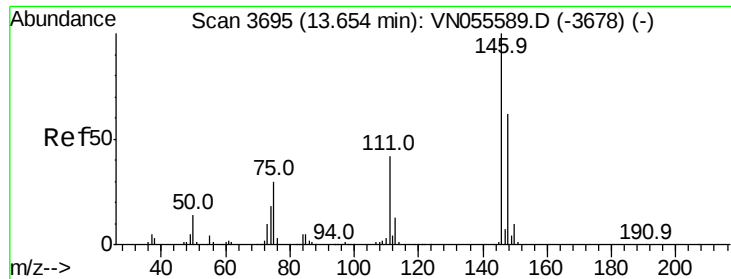
MMDadoda
5/16/2019 1:31:58 PM



#90
Hexachloroethane
Concen: 49.866 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.7	40.6	121.8





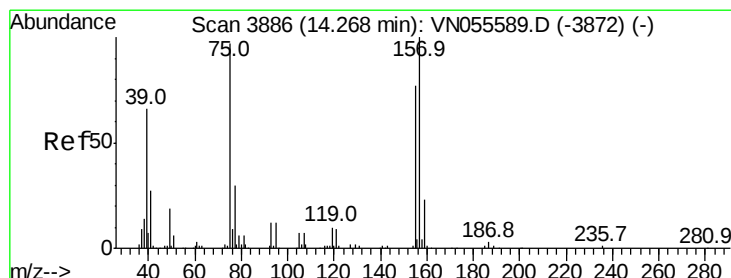
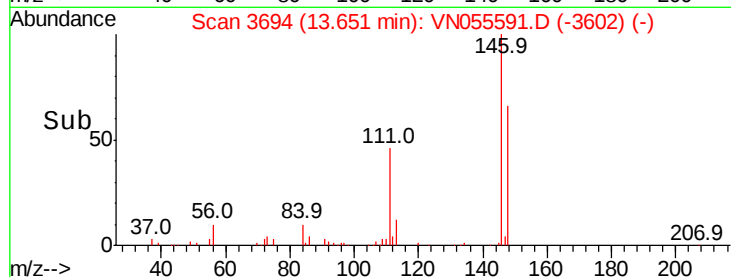
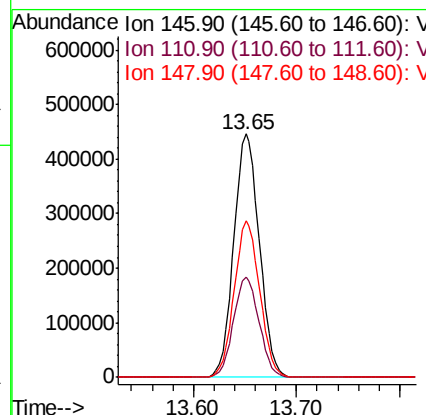
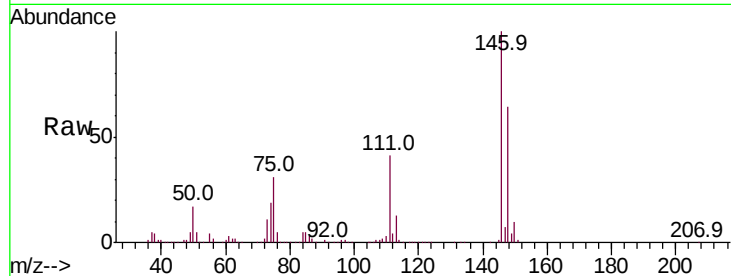
#91
 1,2-Dichlorobenzene
 Concen: 48.255 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051419

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	21.0	63.0
148	64.2	31.3	93.9

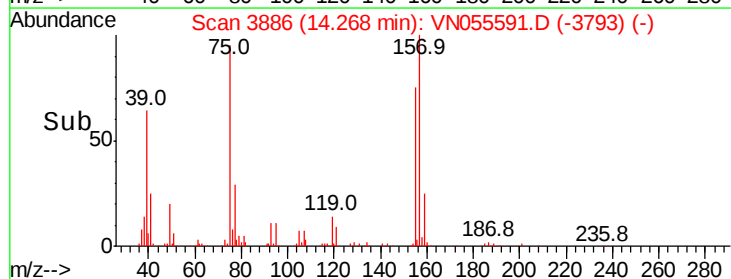
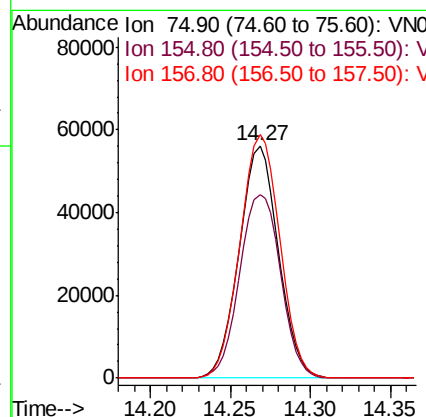
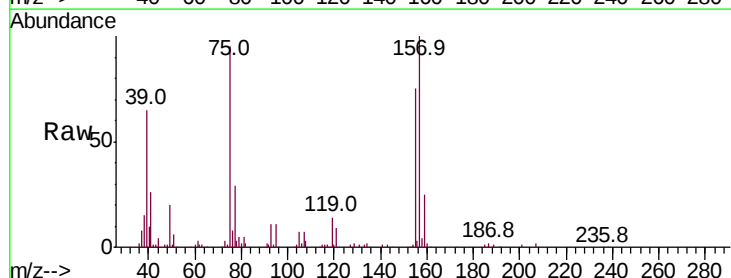
Manual Integrations
 APPROVED

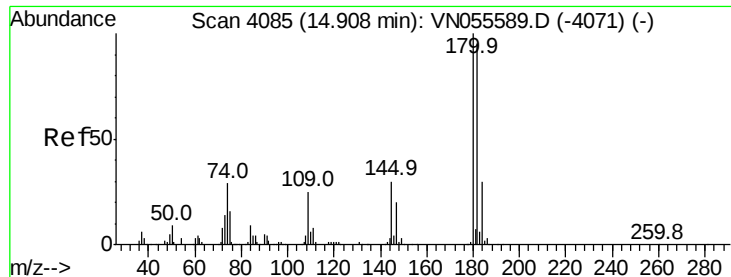
MMDadoda
 5/16/2019 1:31:58 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 48.904 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.4	40.4	121.1
157	106.5	52.1	156.4





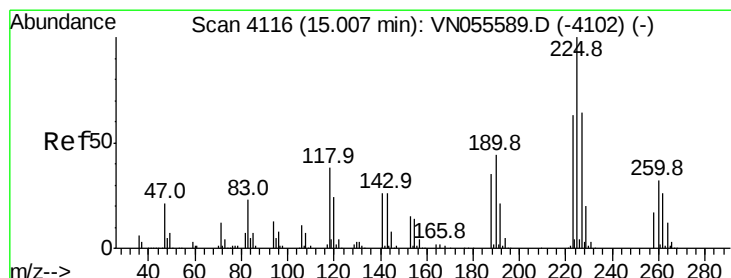
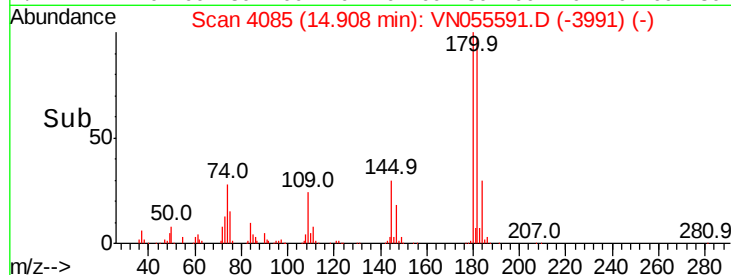
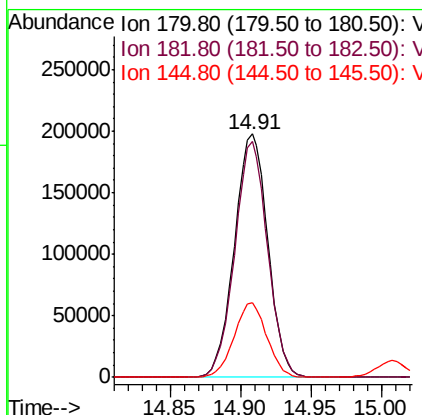
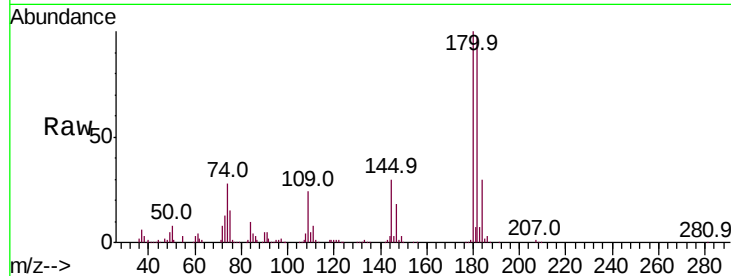
#93
 1,2,4-Trichlorobenzene
 Concen: 50.581 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN051419

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.2	47.4	142.3	
145	30.1	14.9	44.7	

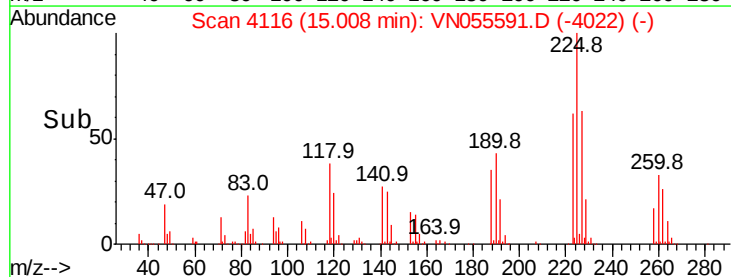
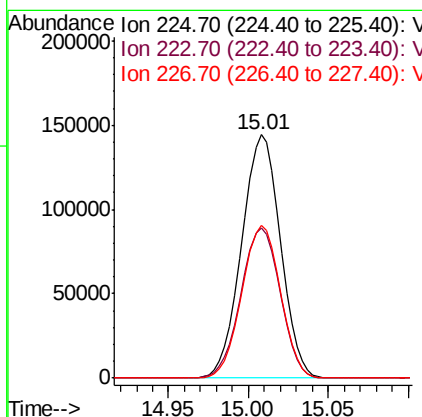
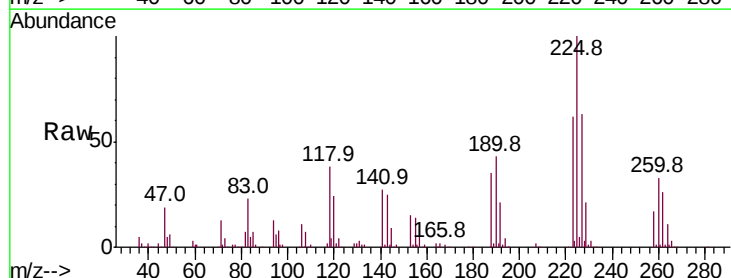
Manual Integrations
 APPROVED

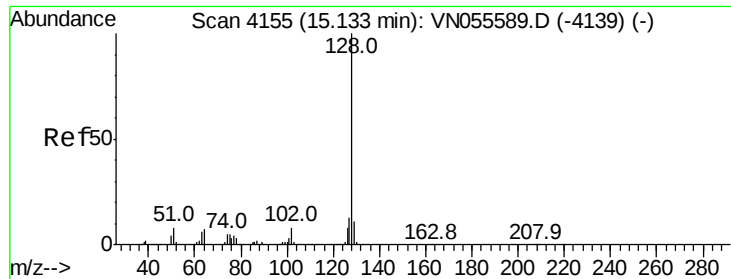
MMDadoda
 5/16/2019 1:31:58 PM



#94
 Hexachlorobutadiene
 Concen: 54.514 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055591.D
 Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.9	31.6	95.0	
227	62.6	32.4	97.0	





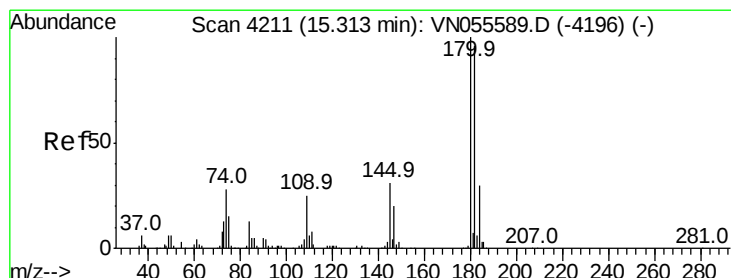
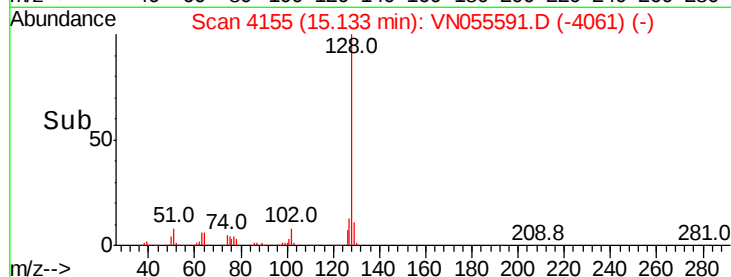
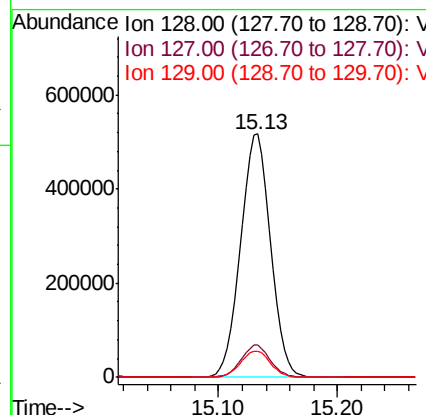
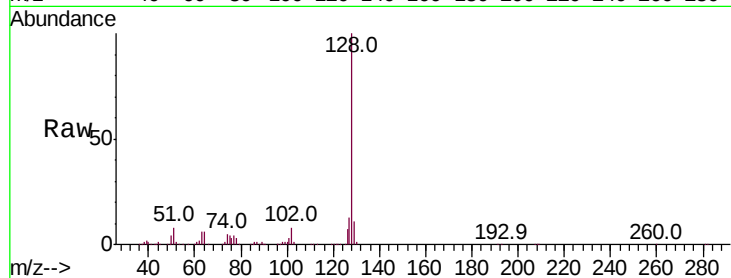
#95
Naphthalene
Concen: 52.119 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051419

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.9	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/16/2019 1:31:58 PM



#96
1,2,3-Trichlorobenzene
Concen: 50.398 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055591.D
Acq: 14 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.9	143.6
145	31.4	15.6	46.7

