

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053233.D
 Acq On : 28 Dec 2018 18:57
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:50:12 AM

Quant Time: Dec 28 23:47:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	841961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1302329	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1185826	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	560212	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	474506	55.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.06%	
35) Dibromofluoromethane	7.59	113	403219	67.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.56%	
50) Toluene-d8	10.09	98	1706080	53.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.84%	
62) 4-Bromofluorobenzene	12.40	95	615359	54.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	384010	45.065	ug/l	98
3) Chloromethane	2.06	50	505626	48.966	ug/l	100
4) Vinyl Chloride	2.19	62	500761	47.884	ug/l	99
5) Bromomethane	2.57	94	344233	47.510	ug/l	100
6) Chloroethane	2.71	64	301806	48.728	ug/l	100
7) Trichlorofluoromethane	3.02	101	651305	49.993	ug/l	99
8) Diethyl Ether	3.41	74	262709	53.452	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.77	101	419099	50.455	ug/l	99
10) Methyl Iodide	3.96	142	598405	51.299	ug/l	100
11) Tert butyl alcohol	4.78	59	145909	279.873	ug/l	99
12) 1,1-Dichloroethene	3.74	96	399949	49.838	ug/l	99
13) Acrolein	3.61	56	169040	357.590	ug/l	99
14) Allyl chloride	4.33	41	687647	55.319	ug/l	94
15) Acrylonitrile	4.99	53	829057	286.246	ug/l	100
16) Acetone	3.82	43	517644	308.991	ug/l	95
17) Carbon Disulfide	4.06	76	1066116	40.736	ug/l	99
18) Methyl Acetate	4.33	43	482288	63.162	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	1186912	55.268	ug/l	100
20) Methylene Chloride	4.55	84	477904	52.296	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	427201	49.547	ug/l	98
22) Diisopropyl ether	5.95	45	1498224	56.466	ug/l	99
23) Vinyl Acetate	5.90	43	4380089	287.082	ug/l	99
24) 1,1-Dichloroethane	5.85	63	847097	53.727	ug/l	99
25) 2-Butanone	6.84	43	863472	307.120	ug/l	98
26) 2,2-Dichloropropane	6.83	77	580669	48.246	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	514068	52.664	ug/l	99
28) Bromochloromethane	7.20	49	386498	56.572	ug/l	98
29) Tetrahydrofuran	7.21	42	609928	290.465	ug/l	99
30) Chloroform	7.37	83	831350	53.676	ug/l	100
31) Cyclohexane	7.66	56	732805	49.547	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	686091	52.000	ug/l	99
36) 1,1-Dichloropropene	7.80	75	622277	49.782	ug/l	99
37) Ethyl Acetate	6.93	43	403536	57.828	ug/l	100
38) Carbon Tetrachloride	7.78	117	583376	50.917	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053233.D
 Acq On : 28 Dec 2018 18:57
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:50:12 AM

Quant Time: Dec 28 23:47:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	694808	45.756	ug/l	99
40) Benzene	8.04	78	1917823	51.580	ug/l	100
41) Methacrylonitrile	7.17	41	214079	53.096	ug/l	97
42) 1,2-Dichloroethane	8.13	62	578943	52.708	ug/l	99
43) Isopropyl Acetate	8.17	43	746739	55.411	ug/l	99
44) Trichloroethene	8.84	130	516374	48.016	ug/l	98
45) 1,2-Dichloropropane	9.12	63	527338	54.451	ug/l	100
46) Dibromomethane	9.21	93	301198	53.387	ug/l	99
47) Bromodichloromethane	9.40	83	634957	52.946	ug/l	100
48) Methyl methacrylate	9.20	41	370992	54.788	ug/l	98
49) 1,4-Dioxane	9.20	88	91329	1066.238	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	2022073	299.220	ug/l	100
52) Toluene	10.16	92	1197424	51.958	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	647063	51.311	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	754408	52.119	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	441543	54.918	ug/l	99
56) Ethyl methacrylate	10.43	69	599595	56.344	ug/l	98
57) 1,3-Dichloropropane	10.71	76	754355	54.714	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1620522	277.378	ug/l	99
59) 2-Hexanone	10.75	43	1358979	297.226	ug/l	99
60) Dibromochloromethane	10.90	129	494286	53.708	ug/l	99
61) 1,2-Dibromoethane	11.01	107	438333	53.681	ug/l	99
64) Tetrachloroethene	10.63	164	554447	43.164	ug/l	99
65) Chlorobenzene	11.44	112	1351677	51.421	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	475745	52.045	ug/l	99
67) Ethyl Benzene	11.51	91	2332036	51.587	ug/l	100
68) m/p-Xylenes	11.62	106	1746274	101.615	ug/l	99
69) o-Xylene	11.95	106	864181	52.404	ug/l	100
70) Styrene	11.97	104	1432982	53.291	ug/l	99
71) Bromoform	12.13	173	347495	52.622	ug/l #	100
73) Isopropylbenzene	12.25	105	2284859	52.128	ug/l	100
74) N-amyl acetate	12.07	43	681550	56.006	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	528710	61.484	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	431717m	45.778	ug/l	
77) Bromobenzene	12.53	156	602098	52.845	ug/l	99
78) n-propylbenzene	12.59	91	2561298	51.308	ug/l	99
79) 2-Chlorotoluene	12.68	91	1538809	49.730	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1805157	50.527	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	153039	52.305	ug/l	97
82) 4-Chlorotoluene	12.77	91	1570360	51.844	ug/l	99
83) tert-Butylbenzene	12.99	119	1588241	50.266	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1823449	50.771	ug/l	100
85) sec-Butylbenzene	13.17	105	2103276	49.213	ug/l	100
86) p-Isopropyltoluene	13.29	119	1808493	48.972	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1013839	50.276	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1000438	48.990	ug/l	100
89) n-Butylbenzene	13.62	91	1458114	45.895	ug/l	100
90) Hexachloroethane	13.88	117	292924	51.689	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	948788	49.992	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	73007	49.102	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
Data File : VN053233.D
Acq On : 28 Dec 2018 18:57
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:50:12 AM

Quant Time: Dec 28 23:47:42 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	442805	44.109	ug/l	100
94) Hexachlorobutadiene	15.01	225	265397	51.036	ug/l	99
95) Naphthalene	15.13	128	987365	44.946	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	401393	44.388	ug/l	100

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

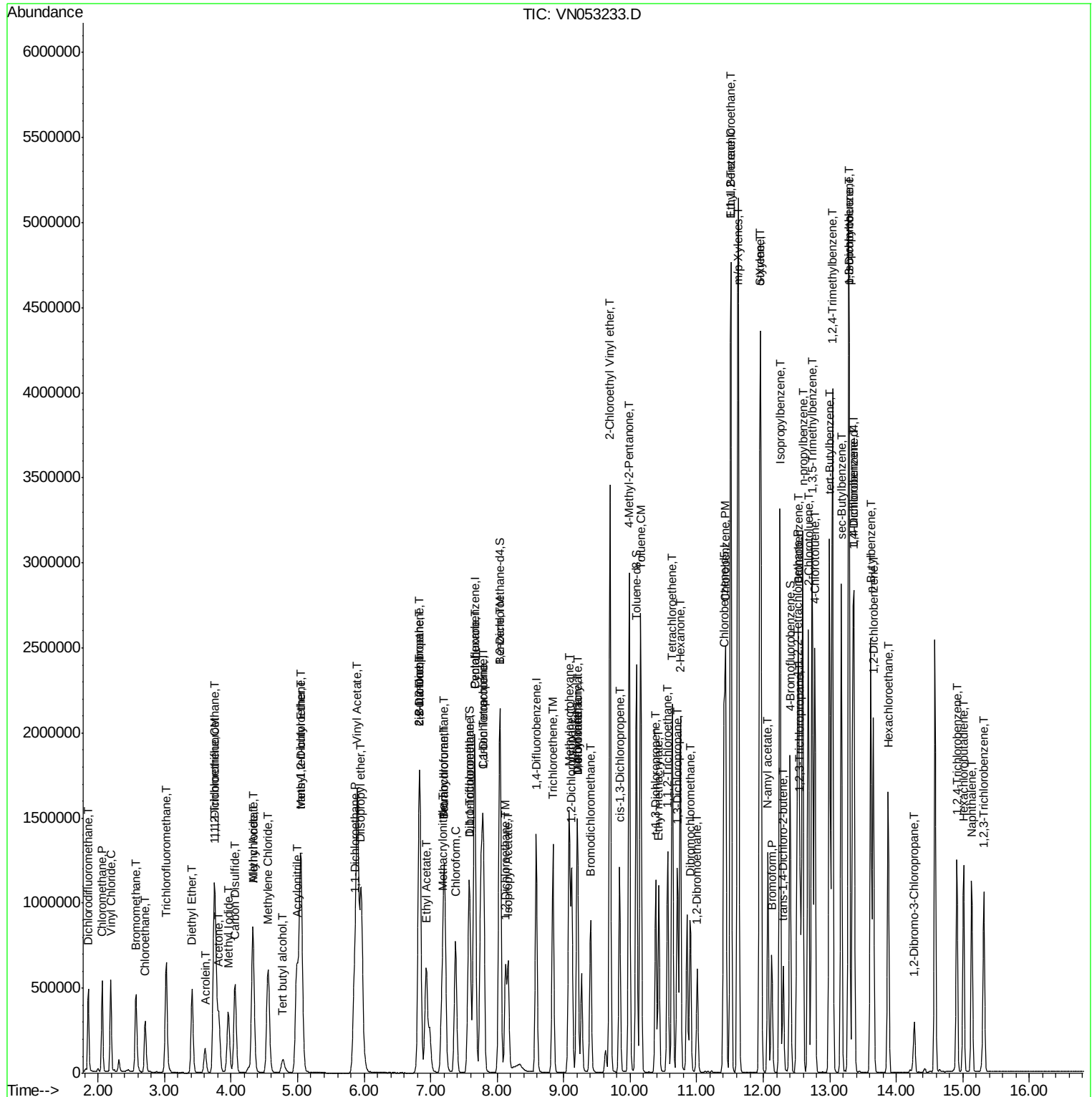
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053233.D
 Acq On : 28 Dec 2018 18:57
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

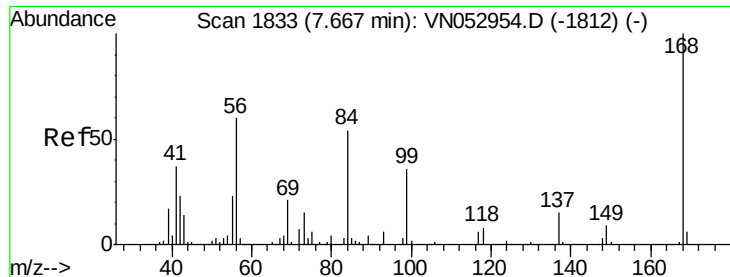
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:50:12 AM

Quant Time: Dec 28 23:47:42 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 841961

Ion Ratio Lower Upper

168 100

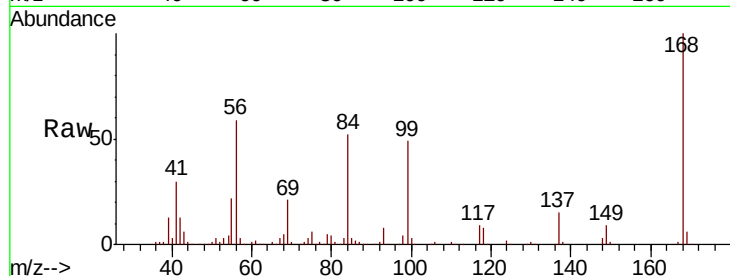
99 49.0 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

1/2/2019 9:50:12 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

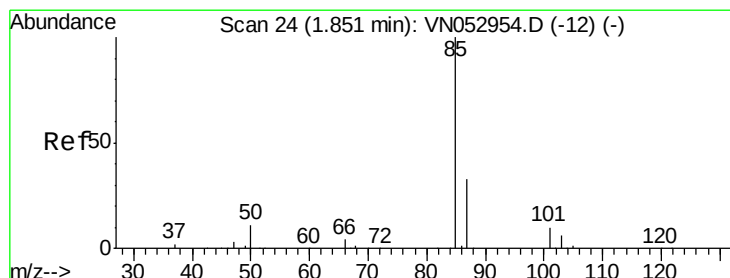
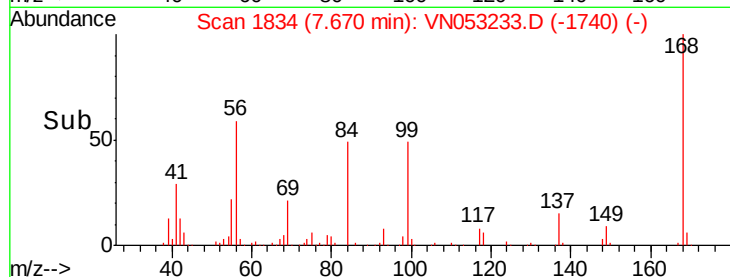
200000

100000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 45.065 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053233.D

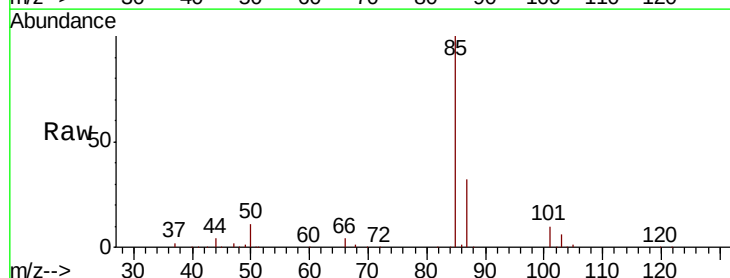
Acq: 28 Dec 2018 18:57

Tgt Ion: 85 Resp: 384010

Ion Ratio Lower Upper

85 100

87 31.6 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

300000

250000

200000

150000

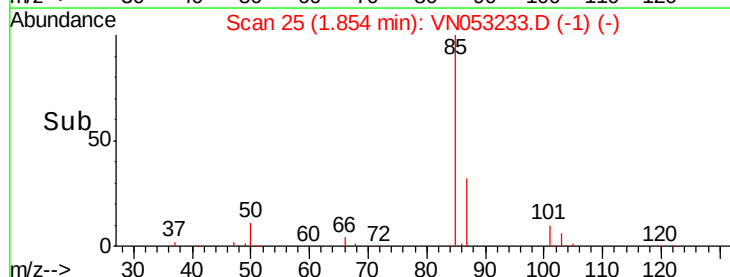
100000

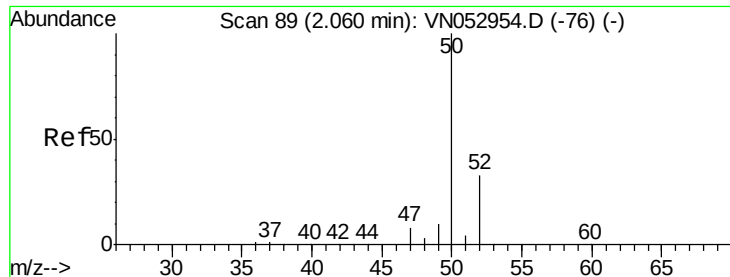
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 48.966 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 505626

Ion Ratio Lower Upper

50 100

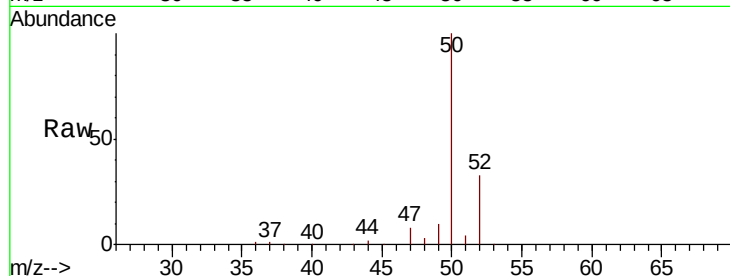
52 33.1 26.2 39.4

Manual Integrations

APPROVED

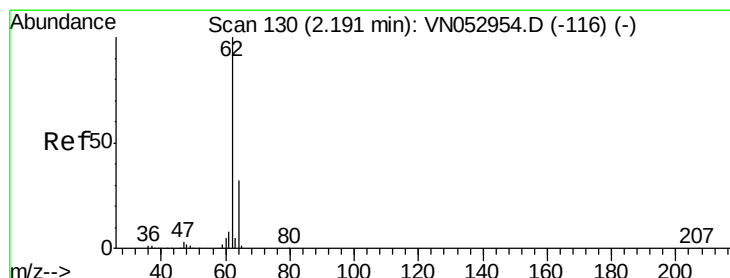
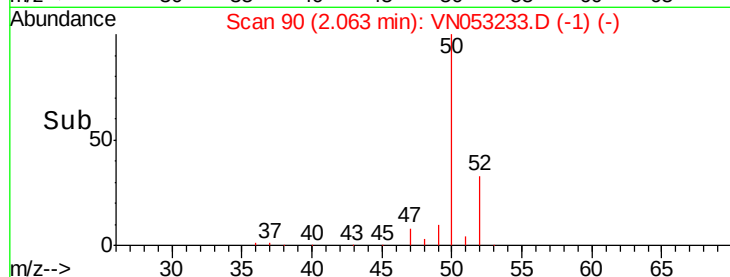
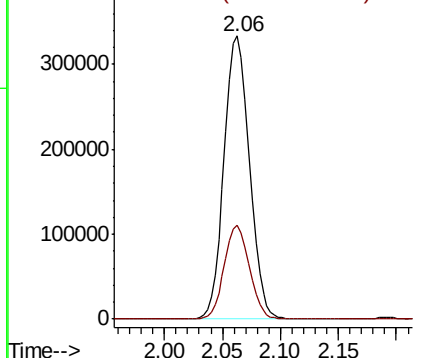
MMDadoda

1/2/2019 9:50:12 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 47.884 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053233.D

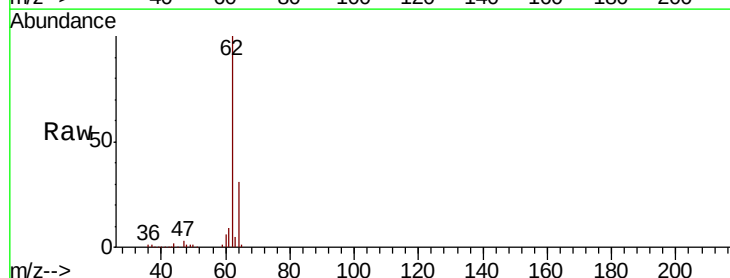
Acq: 28 Dec 2018 18:57

Tgt Ion: 62 Resp: 500761

Ion Ratio Lower Upper

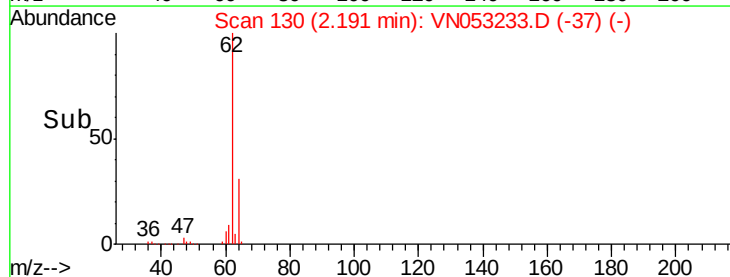
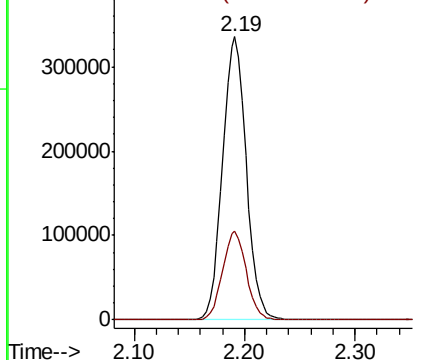
62 100

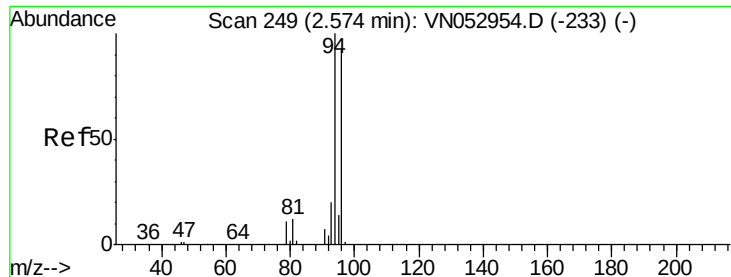
64 31.3 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 47.510 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.01 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 344233

Ion Ratio Lower Upper

94 100

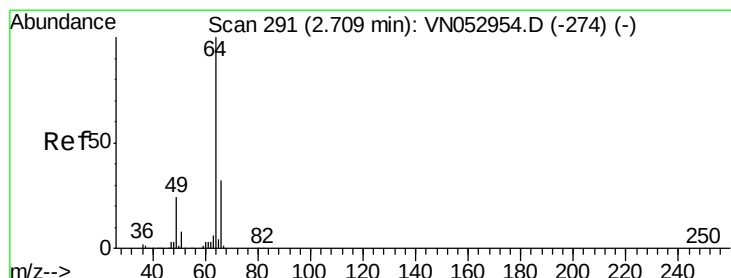
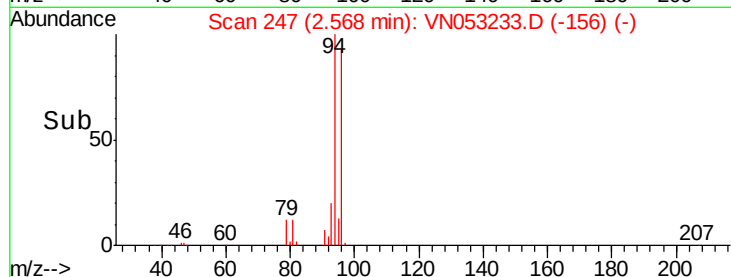
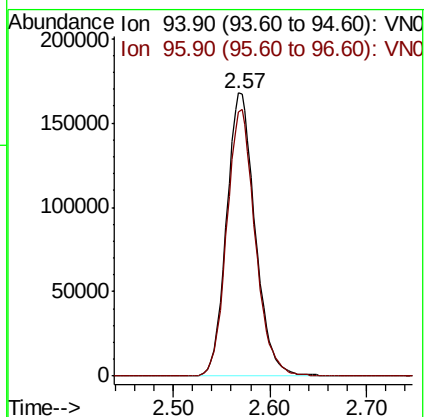
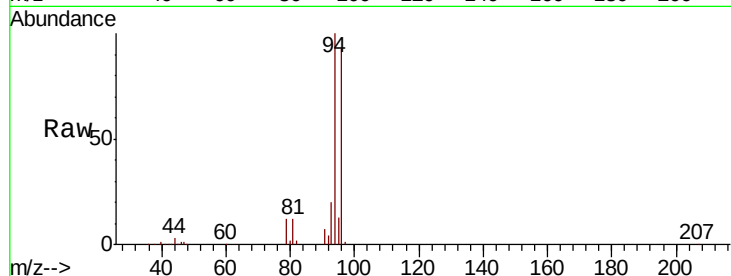
96 93.3 75.0 112.4

Manual Integrations

APPROVED

MMDadoda

1/2/2019 9:50:12 AM



#6

Chloroethane

Concen: 48.728 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN053233.D

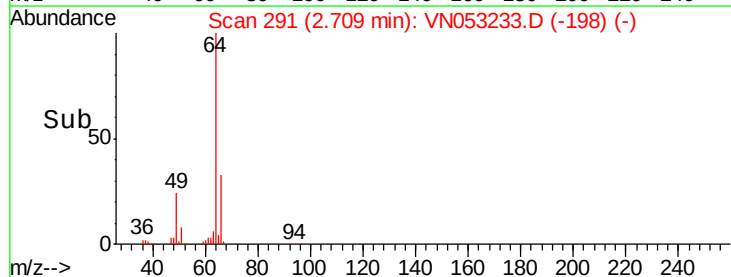
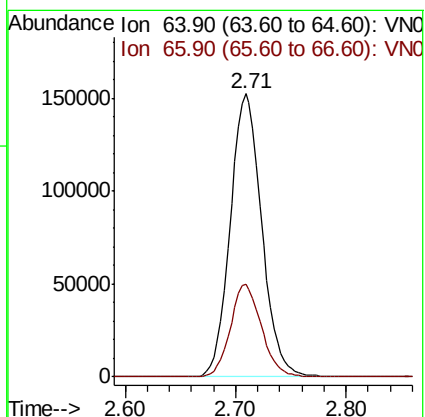
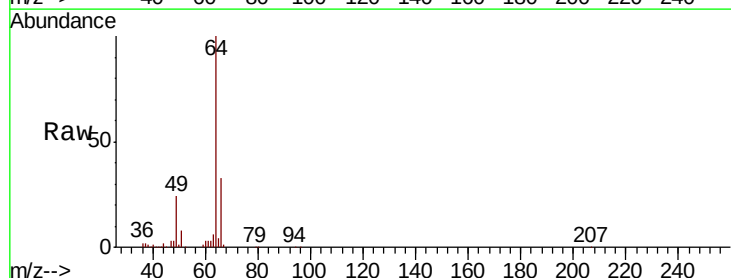
Acq: 28 Dec 2018 18:57

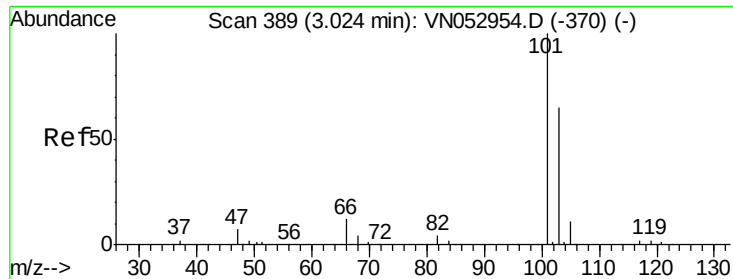
Tgt Ion: 64 Resp: 301806

Ion Ratio Lower Upper

64 100

66 32.9 26.2 39.2





#7

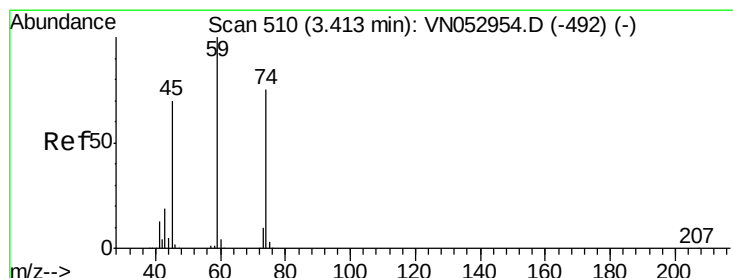
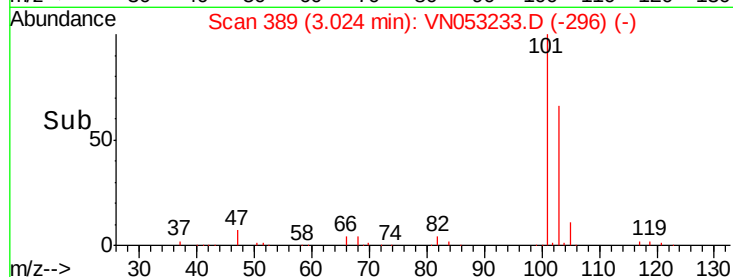
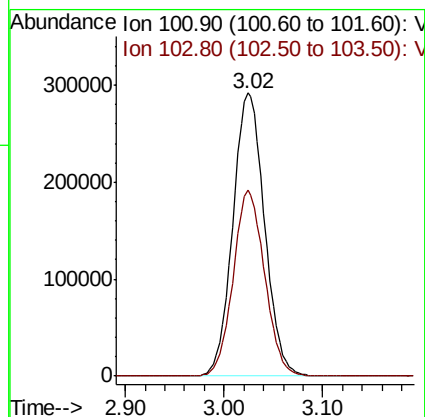
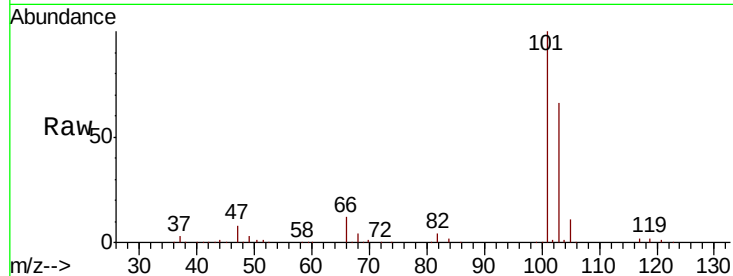
Trichlorofluoromethane
Concen: 49.993 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:101 Resp: 651305
Ion Ratio Lower Upper
101 100
103 65.6 51.8 77.6

Manual Integrations
APPROVED

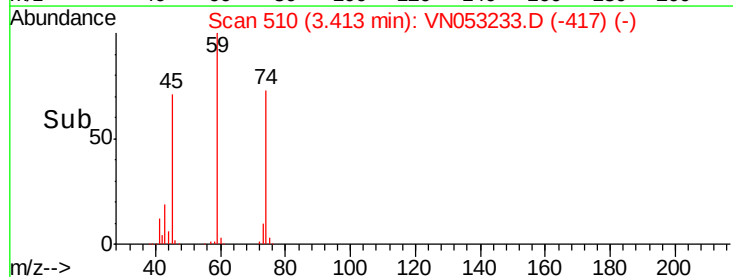
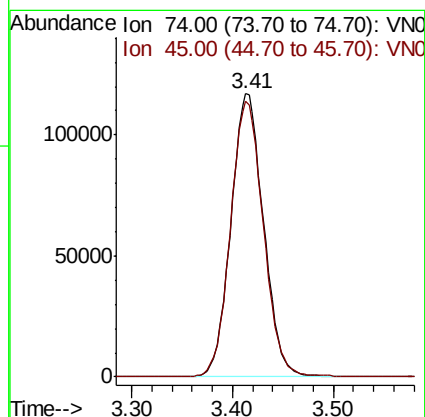
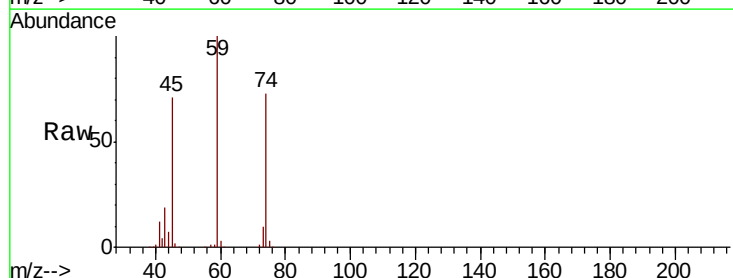
MMDadoda
1/2/2019 9:50:12 AM

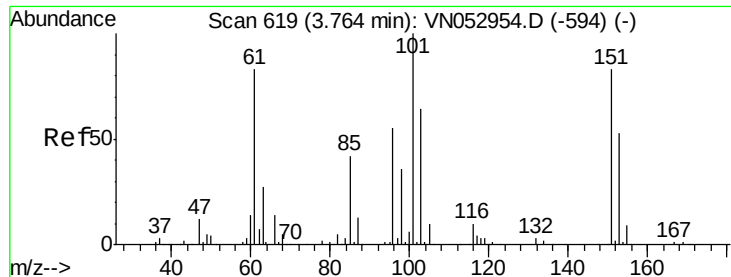


#8

Diethyl Ether
Concen: 53.452 ug/l
RT: 3.41 min Scan# 510
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion: 74 Resp: 262709
Ion Ratio Lower Upper
74 100
45 98.0 49.4 148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.455 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

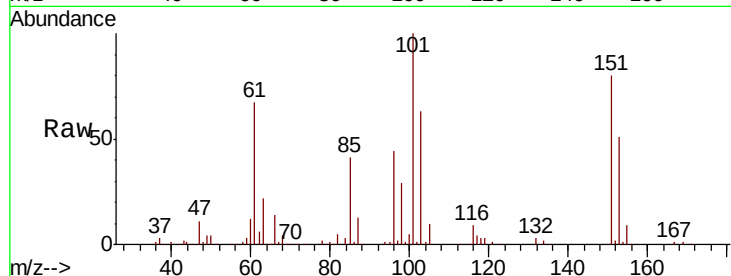
ClientSampleId :

VSTDCCC050EC

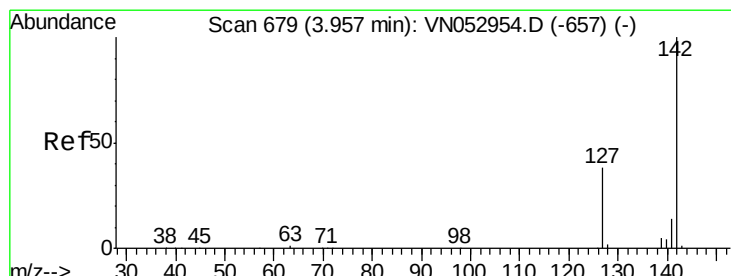
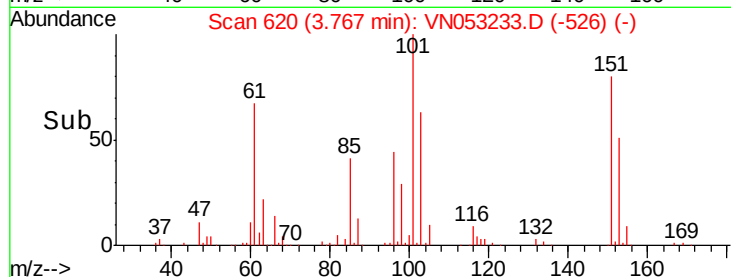
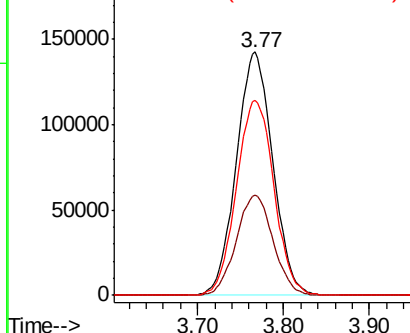
Tot Ion:	101	Resp:	419099
Ion Ratio	Lower	Upper	
101	100		
85	41.7	33.6	50.4
151	82.6	65.5	98.3

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:50:12 AM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 51.299 ug/l

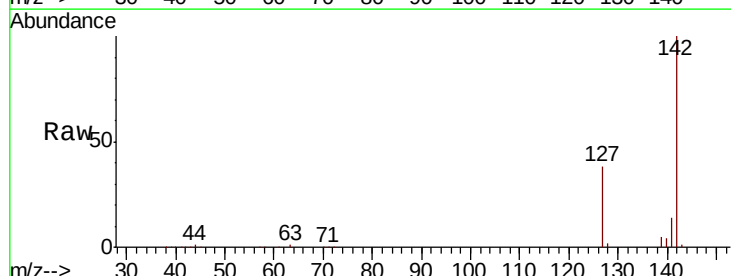
RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

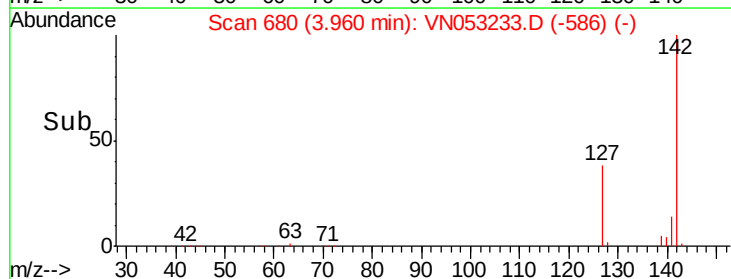
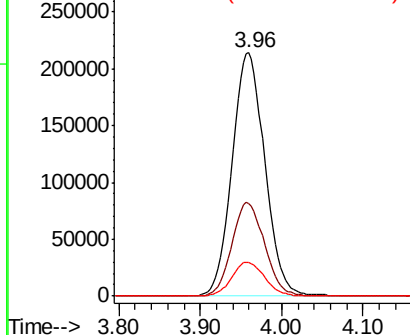
Lab File: VN053233.D

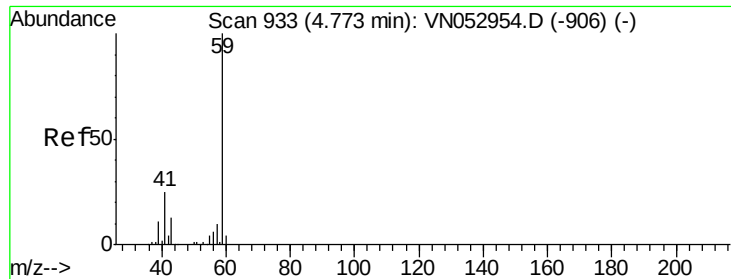
Acq: 28 Dec 2018 18:57

Tgt Ion:	142	Resp:	598405
Ion Ratio	Lower	Upper	
142	100		
127	38.4	31.0	46.6
141	14.1	11.2	16.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





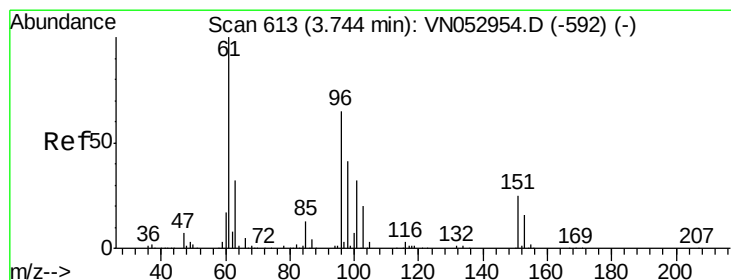
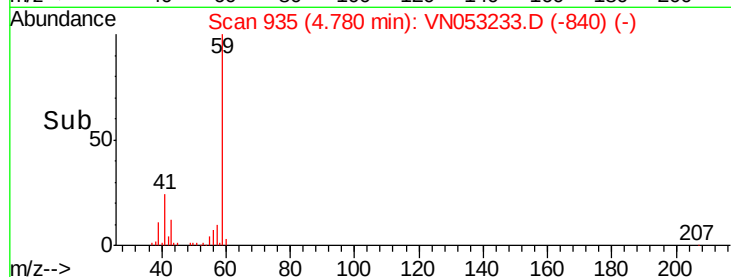
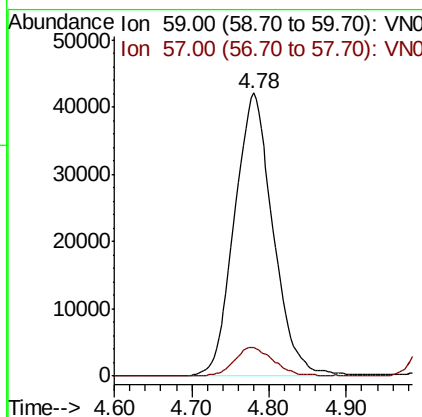
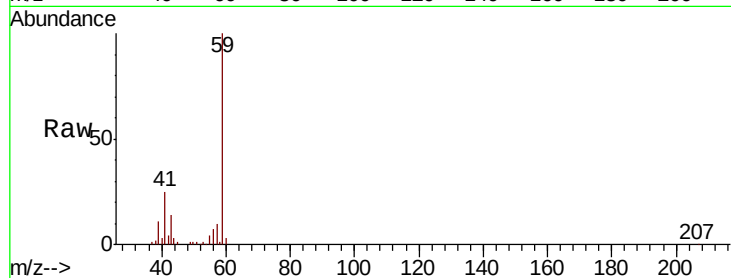
#11
Tert butyl alcohol
Concen: 279.873 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.01 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	59	57	Ratio	100	10.1	Resp	145909	Lower	7.7	Upper	11.5
Ion											

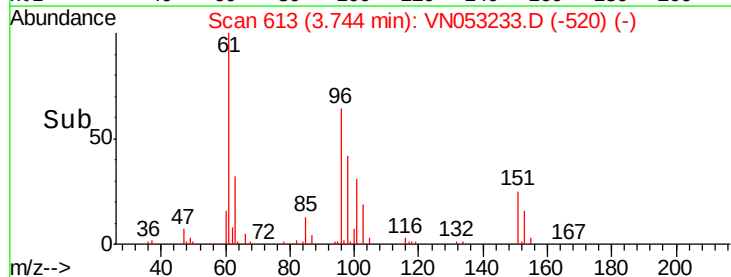
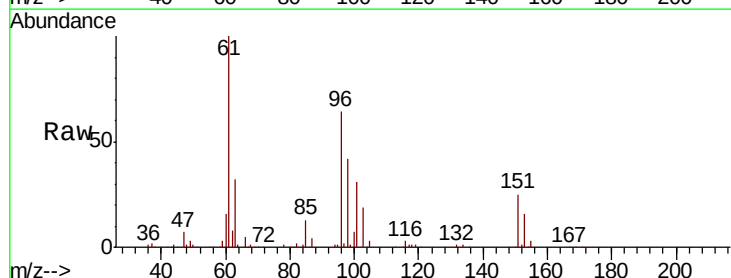
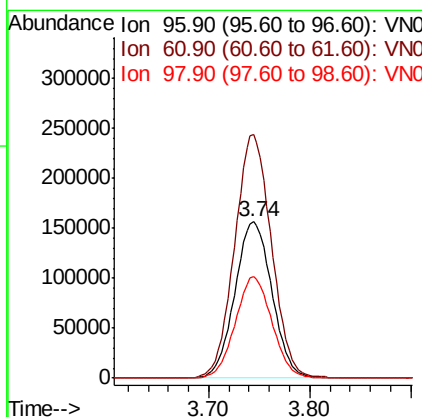
Manual Integrations
APPROVED

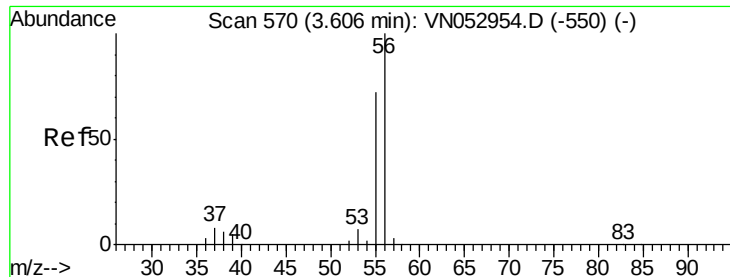
MMDadoda
1/2/2019 9:50:12 AM



#12
1,1-Dichloroethene
Concen: 49.838 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	96	61	98	Resp	399949	Lower	125.6	Upper	188.4
Ion									





#13

Acrolein

Concen: 357.590 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 169040

Ion Ratio Lower Upper

56 100

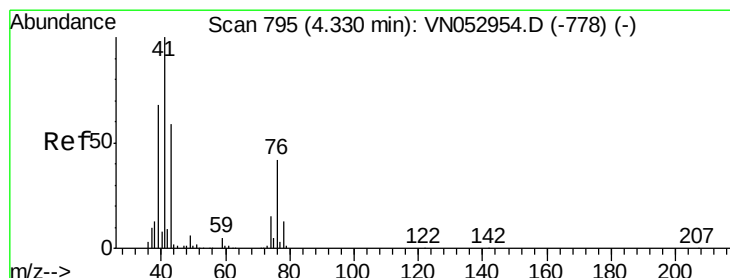
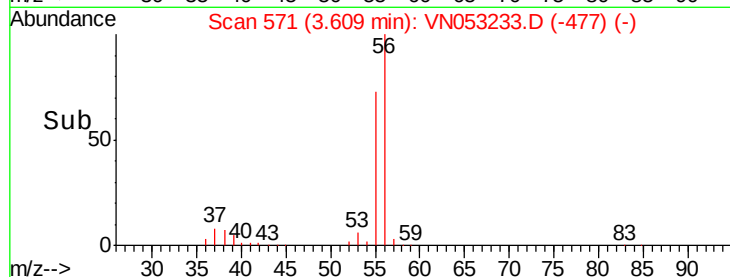
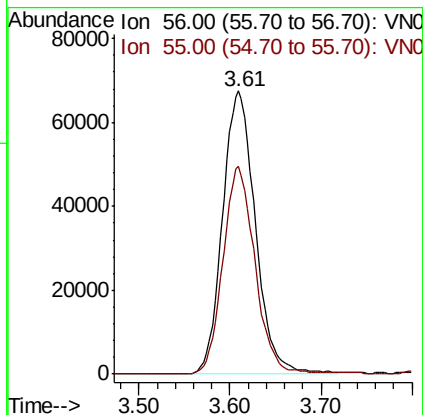
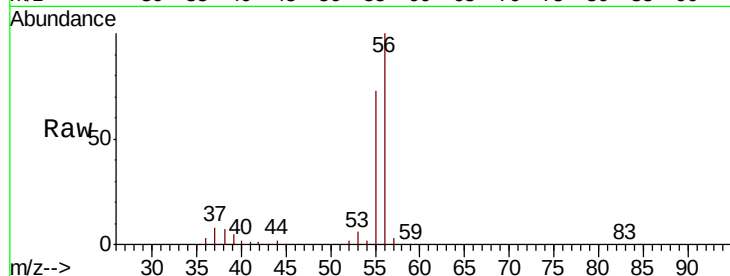
55 71.5 56.6 85.0

Manual Integrations

APPROVED

MMDadoda

1/2/2019 9:50:12 AM



#14

Allyl chloride

Concen: 55.319 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

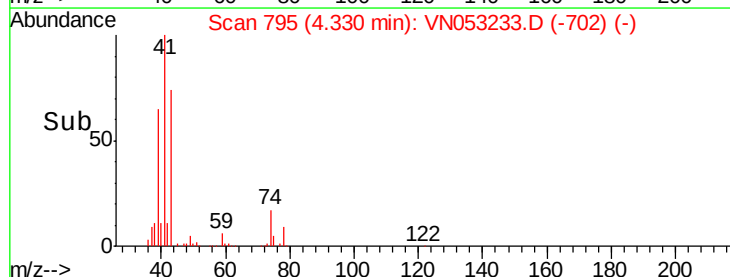
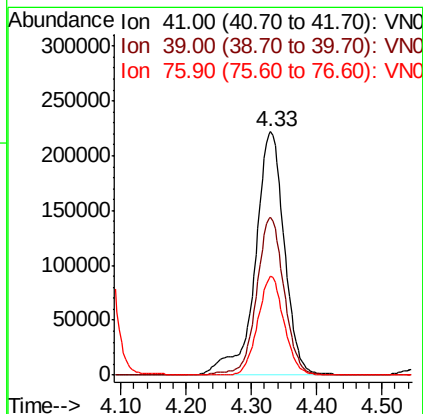
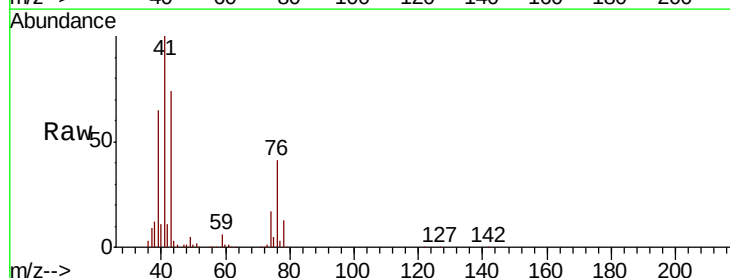
Tgt Ion: 41 Resp: 687647

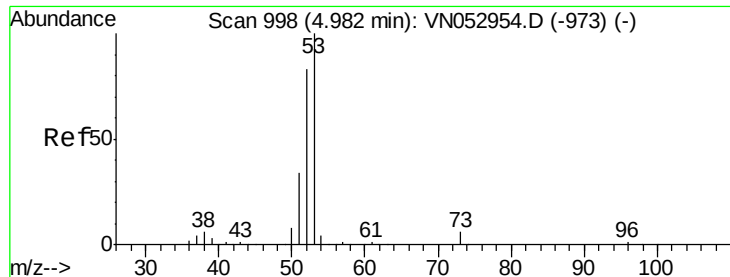
Ion Ratio Lower Upper

41 100

39 61.3 54.1 81.1

76 36.4 30.3 45.5





#15

Acrylonitrile

Concen: 286.246 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

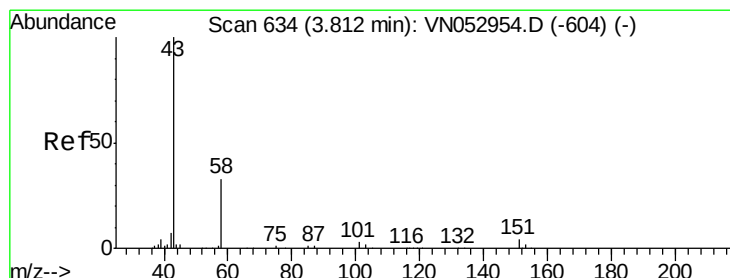
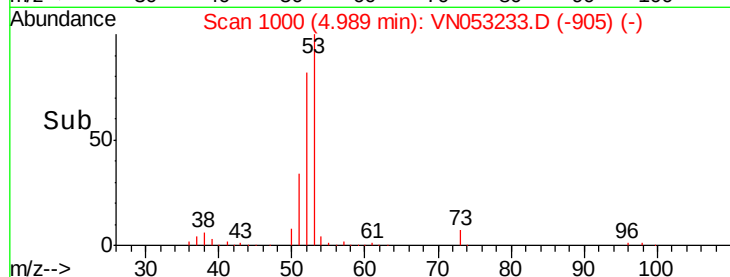
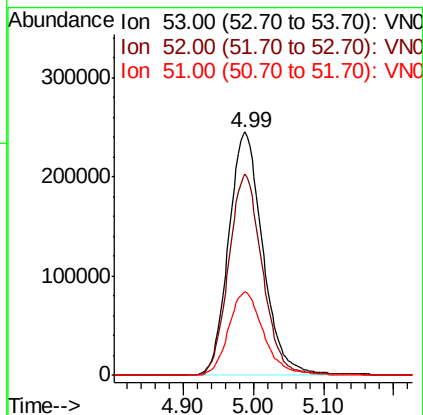
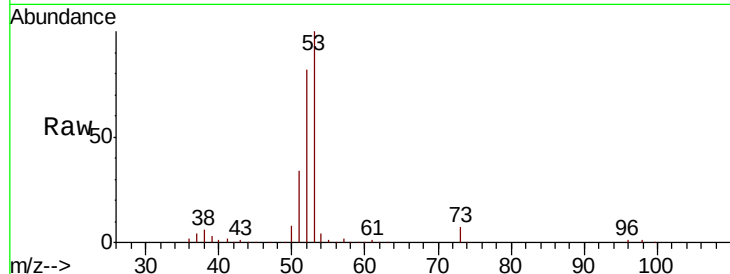
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	829057
Ion Ratio	Lower	Upper	
53	100		
52	81.9	65.1	97.7
51	35.3	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:50:12 AM



#16

Acetone

Concen: 308.991 ug/l

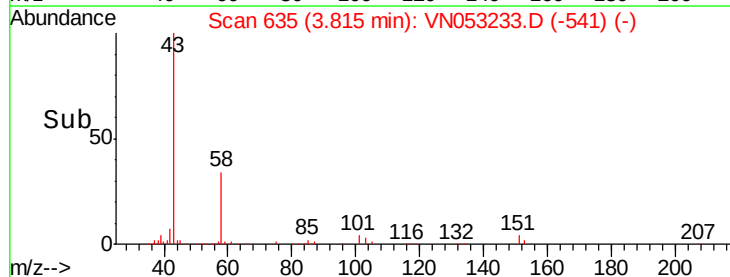
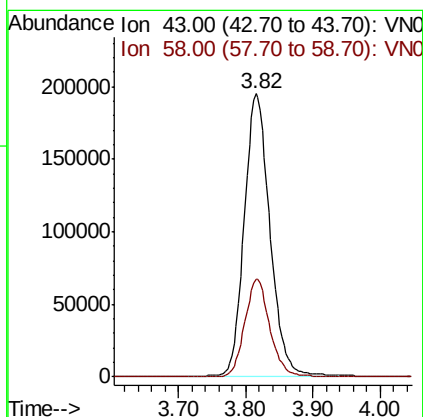
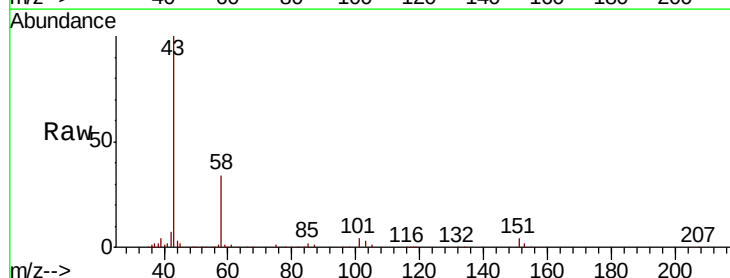
RT: 3.82 min Scan# 635

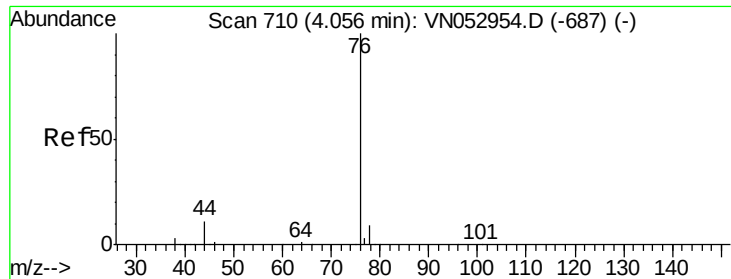
Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Tgt Ion:	43	Resp:	517644
Ion Ratio	Lower	Upper	
43	100		
58	34.3	25.4	38.0





#17

Carbon Disulfide

Concen: 40.736 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Tot Ion: 76 Resp: 1066116

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7

Instrument :

MSVOA_N

ClientSampleId :

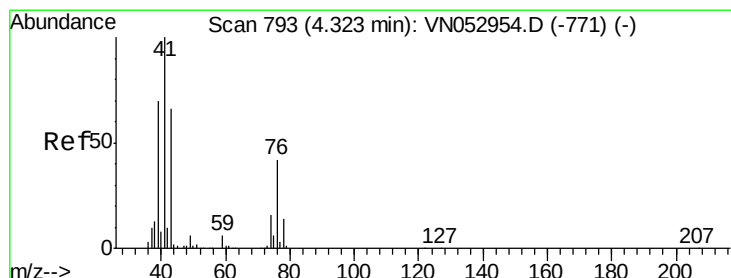
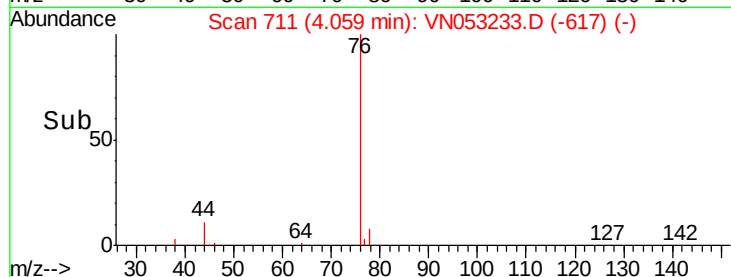
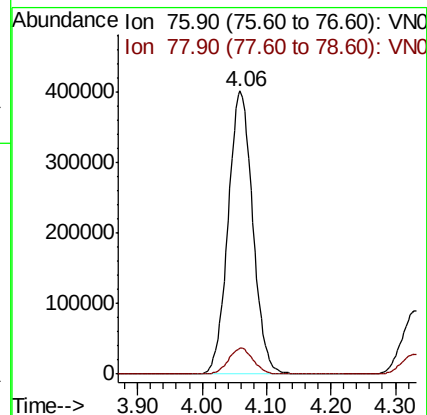
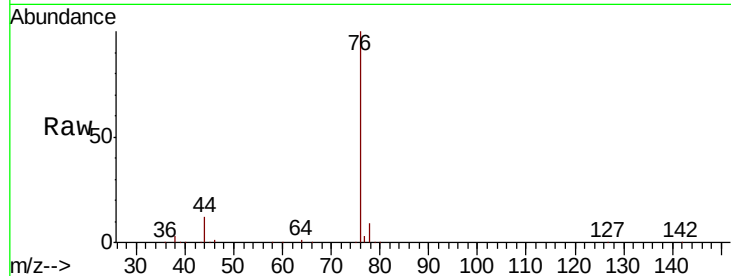
VSTDCCC050EC

Manual Integrations

APPROVED

MMDadoda

1/2/2019 9:50:12 AM



#18

Methyl Acetate

Concen: 63.162 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053233.D

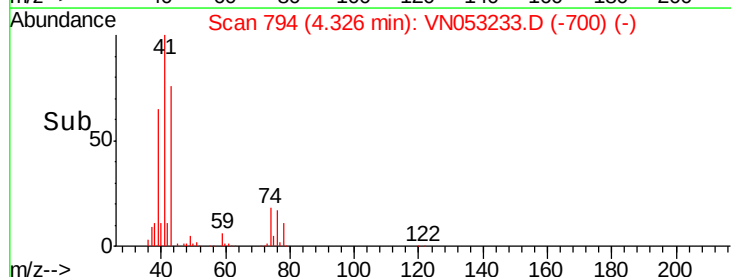
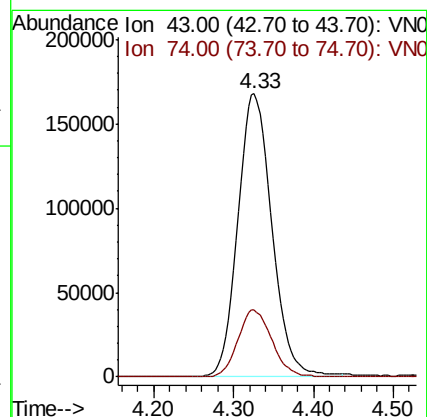
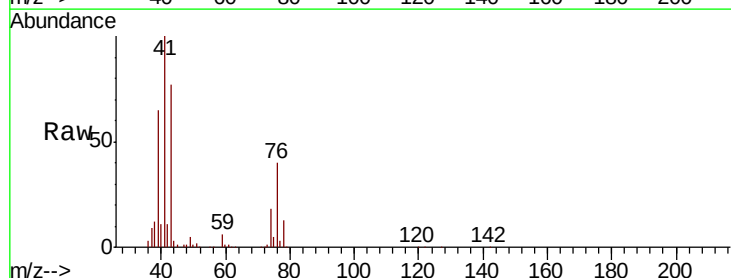
Acq: 28 Dec 2018 18:57

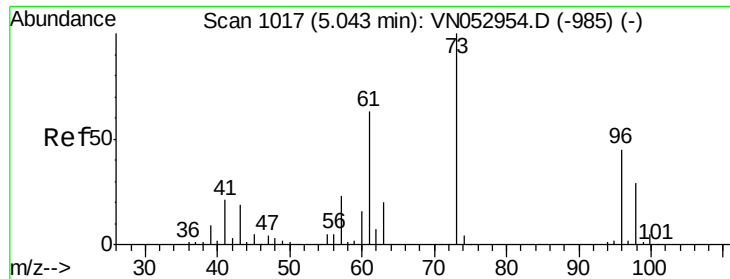
Tgt Ion: 43 Resp: 482288

Ion Ratio Lower Upper

43 100

74 23.8 19.2 28.8





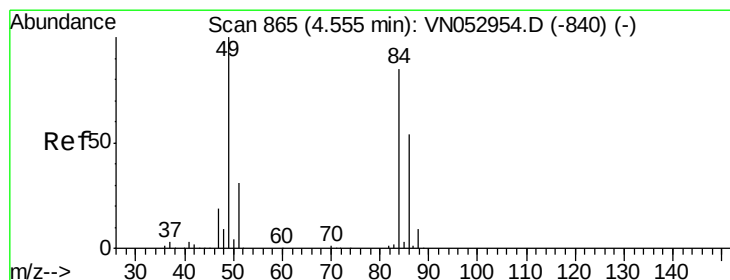
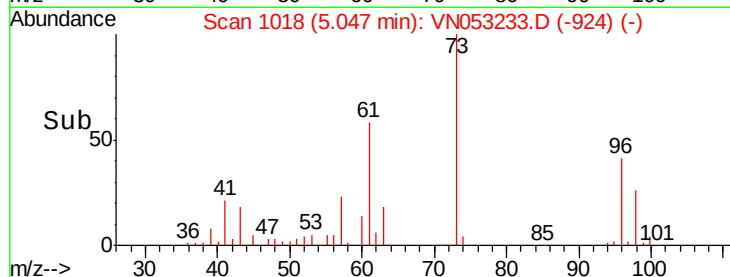
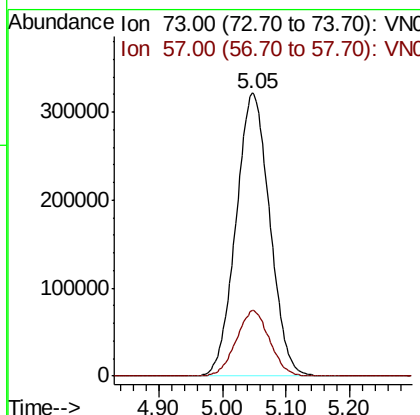
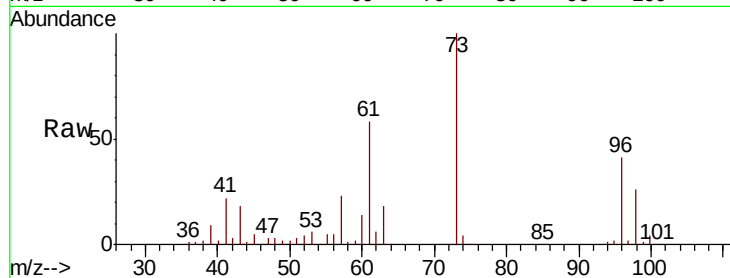
#19
Methyl tert-butyl Ether
Concen: 55.268 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 1186912
Ion Ratio Lower Upper
73 100
57 23.2 18.4 27.6

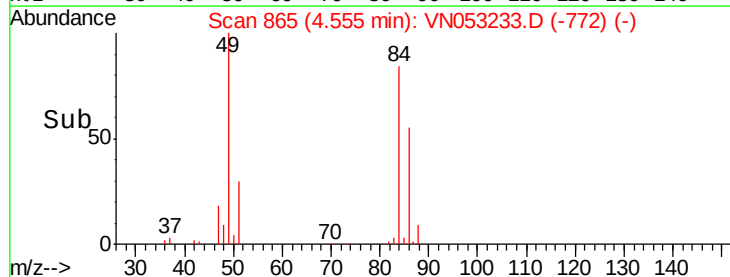
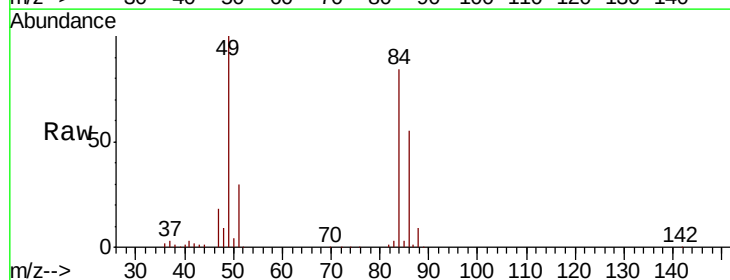
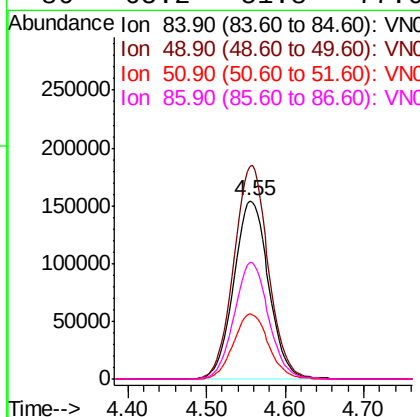
Manual Integrations
APPROVED

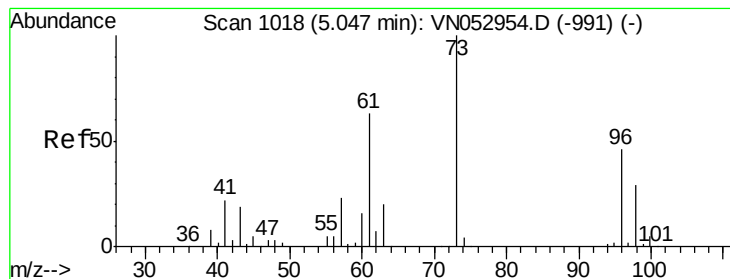
MMDadoda
1/2/2019 9:50:12 AM



#20
Methylene Chloride
Concen: 52.296 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion: 84 Resp: 477904
Ion Ratio Lower Upper
84 100
49 119.4 96.8 145.2
51 36.3 29.9 44.9
86 65.2 51.8 77.6





#21

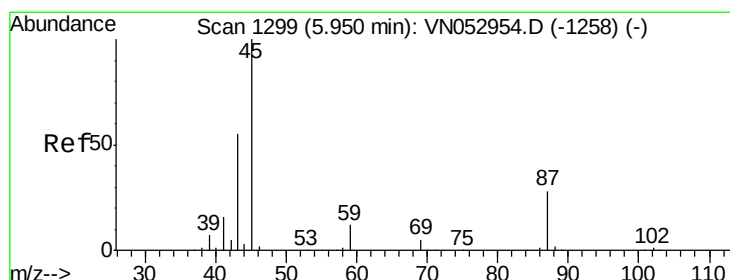
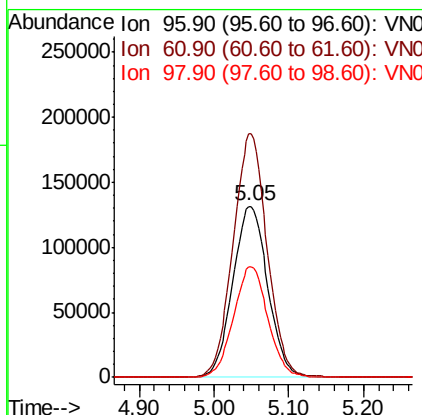
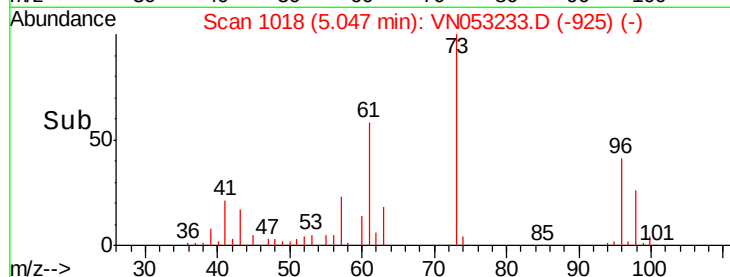
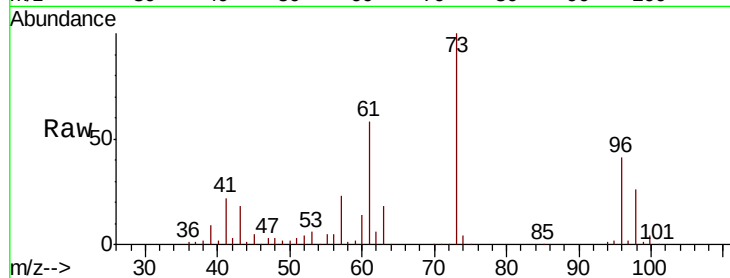
trans-1,2-Dichloroethene
Concen: 49.547 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.8	110.8	166.2
98	64.6	51.4	77.2

Manual Integrations
APPROVED

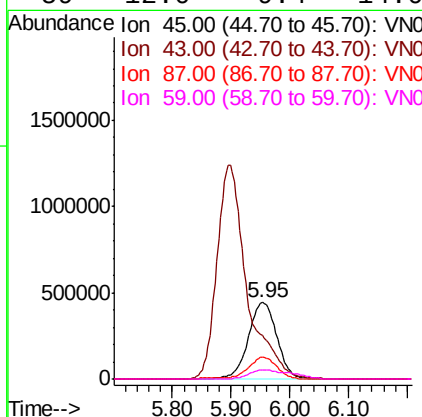
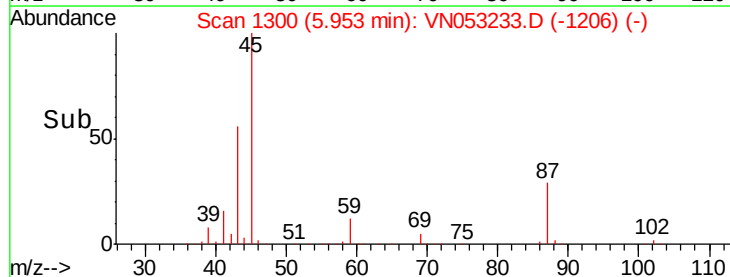
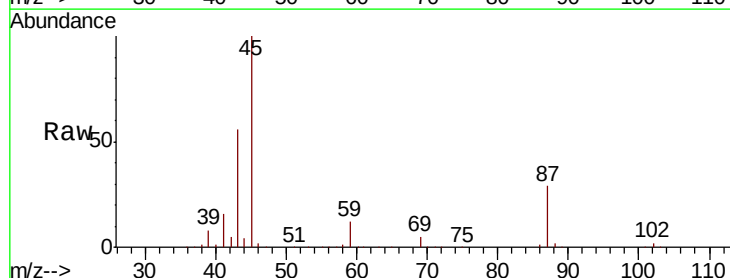
MMDadoda
1/2/2019 9:50:12 AM

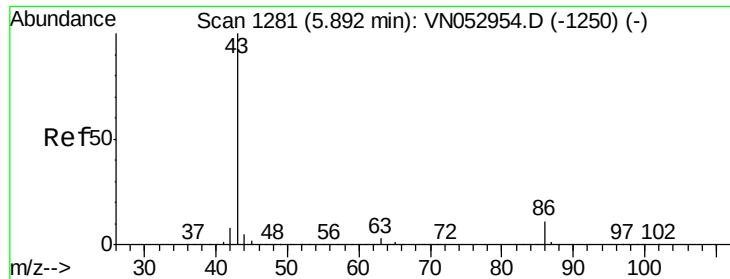


#22

Diisopropyl ether
Concen: 56.466 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.9	45.5	68.3
87	28.5	22.0	33.0
59	12.0	9.4	14.0





#23

Vinyl Acetate

Concen: 287.082 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 4380089

Ion Ratio Lower Upper

43 100

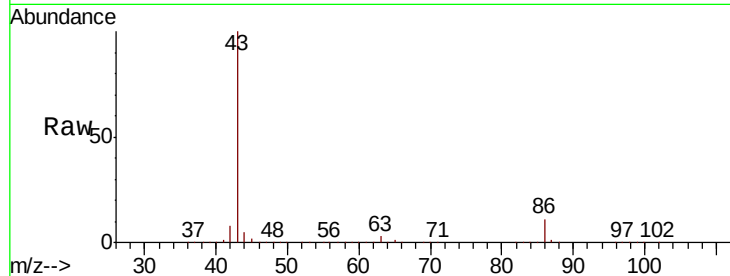
86 10.5 8.1 12.1

Manual Integrations

APPROVED

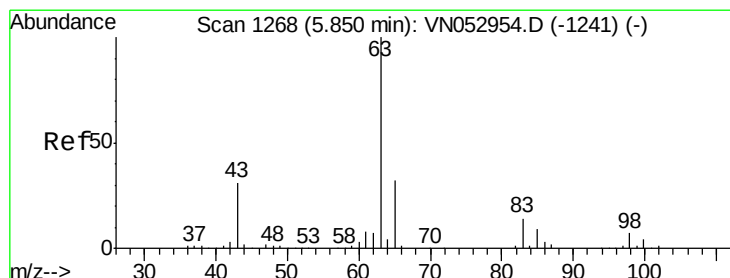
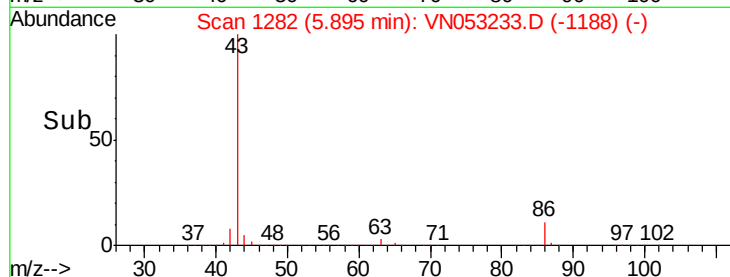
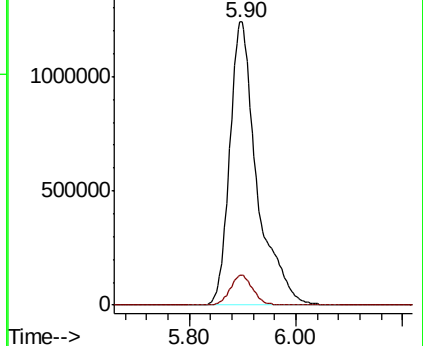
MMDadoda

1/2/2019 9:50:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VN053233.D (-1188) (-)

Ion 86.00 (85.70 to 86.70): VN053233.D (-1188) (-)



#24

1,1-Dichloroethane

Concen: 53.727 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

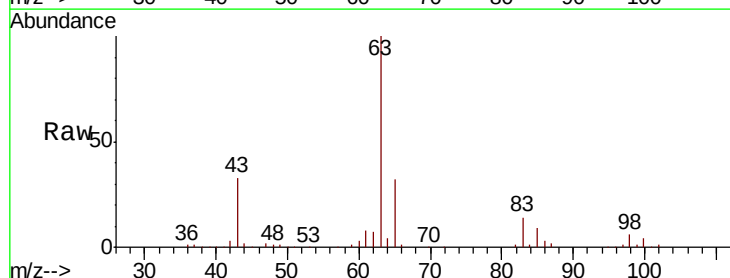
Tgt Ion: 63 Resp: 847097

Ion Ratio Lower Upper

63 100

98 6.5 3.1 9.4

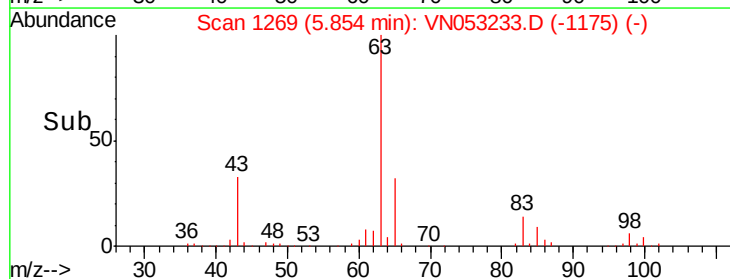
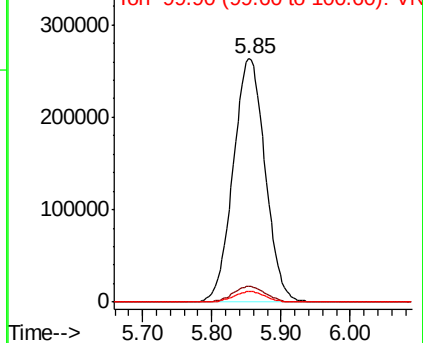
100 4.4 2.0 5.8

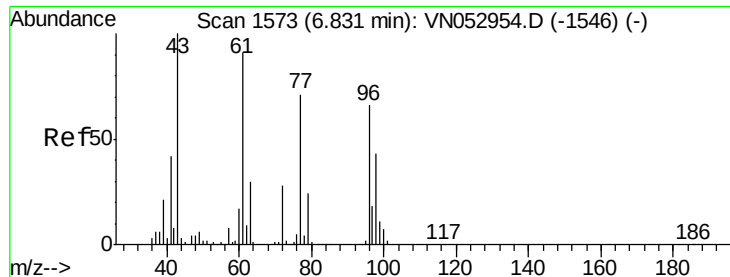


Abundance Ion 62.90 (62.60 to 63.60): VN053233.D (-1175) (-)

Ion 97.90 (97.60 to 98.60): VN053233.D (-1175) (-)

Ion 99.90 (99.60 to 100.60): VN053233.D (-1175) (-)





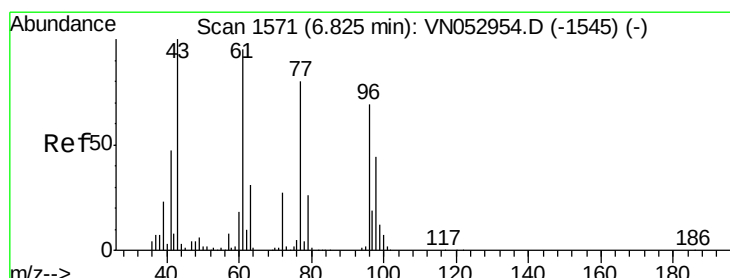
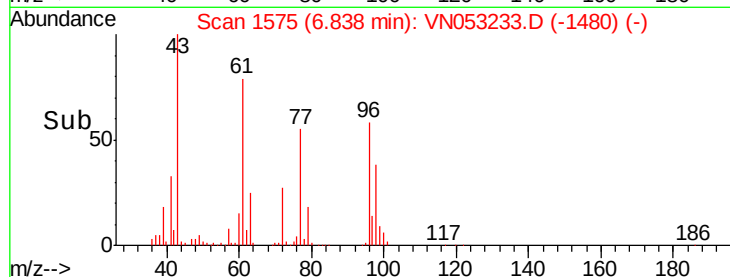
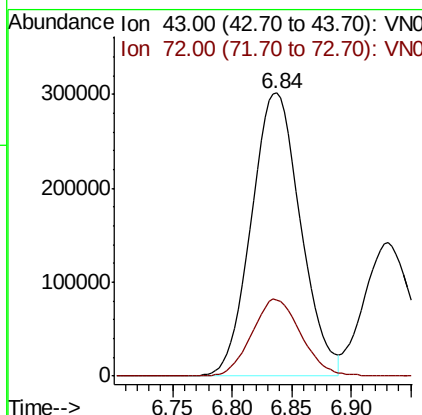
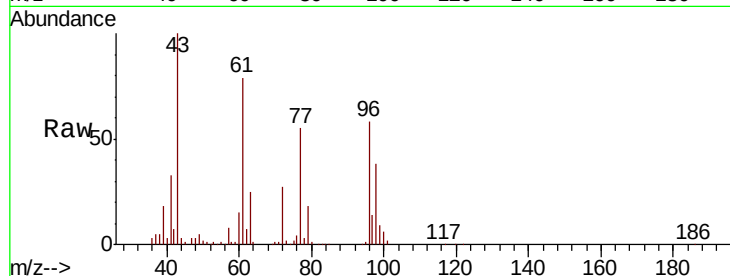
#25
2-Butanone
Concen: 307.120 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 863472
Ion Ratio Lower Upper
43 100
72 27.1 21.0 31.6

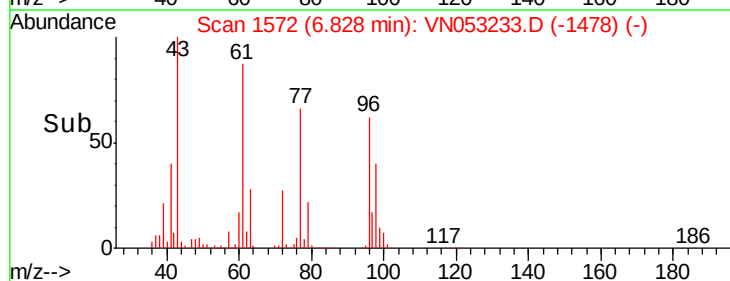
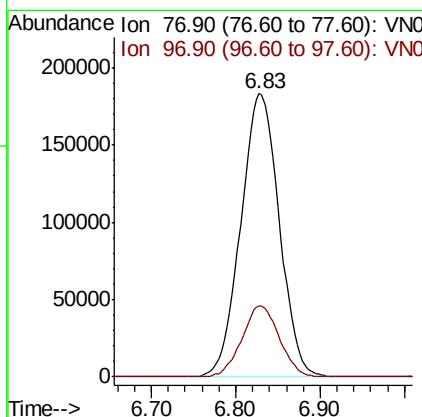
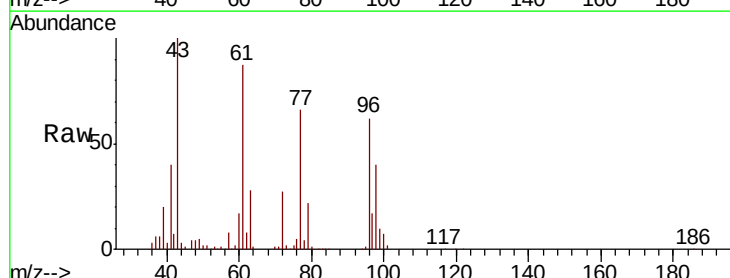
Manual Integrations
APPROVED

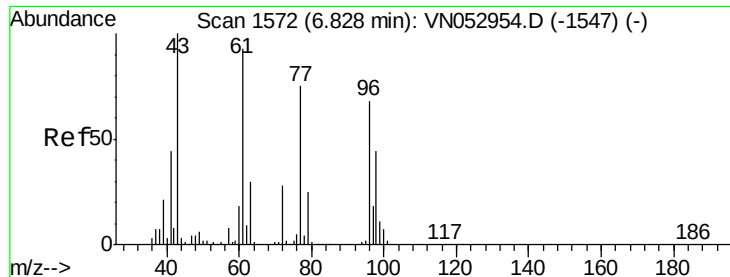
MMDadoda
1/2/2019 9:50:12 AM



#26
2,2-Dichloropropane
Concen: 48.246 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion: 77 Resp: 580669
Ion Ratio Lower Upper
77 100
97 24.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 52.664 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

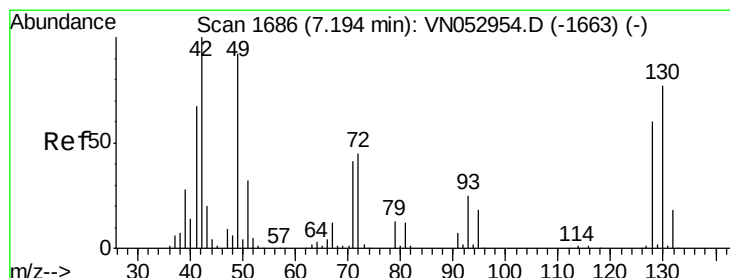
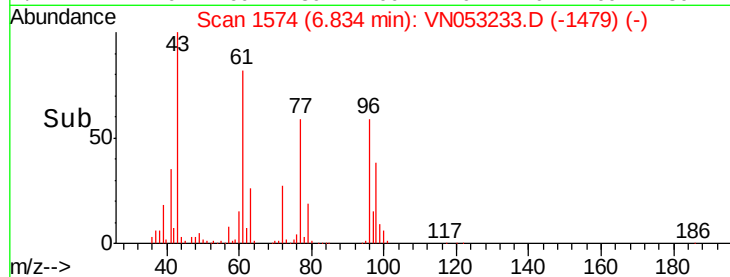
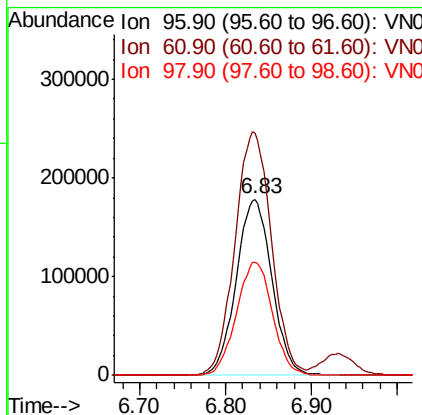
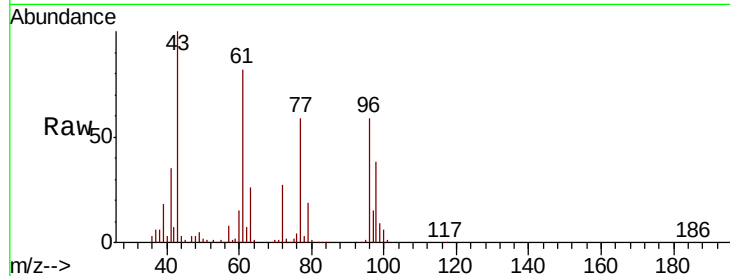
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	514068
Ion	Ratio	Lower	Upper
96	100		
61	141.3	0.0	284.2
98	64.9	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:50:12 AM



#28

Bromochloromethane

Concen: 56.572 ug/l

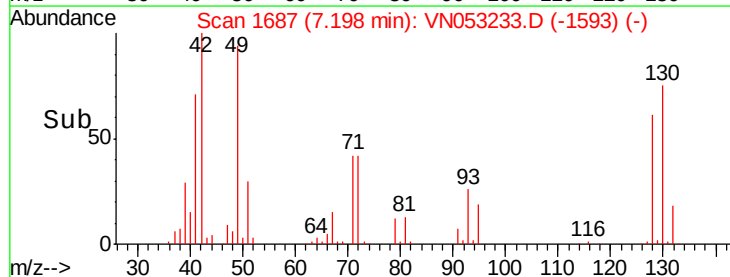
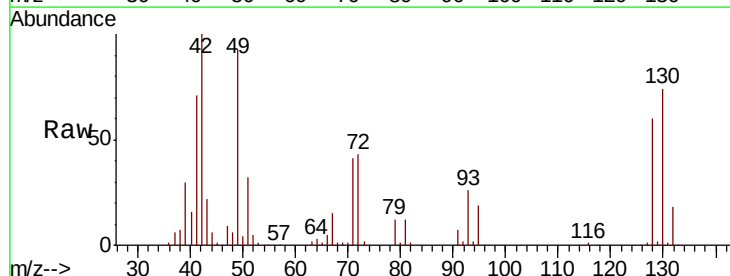
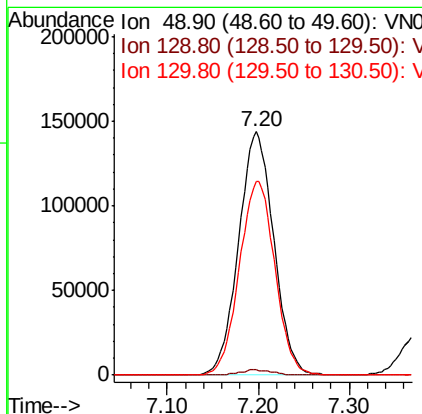
RT: 7.20 min Scan# 1687

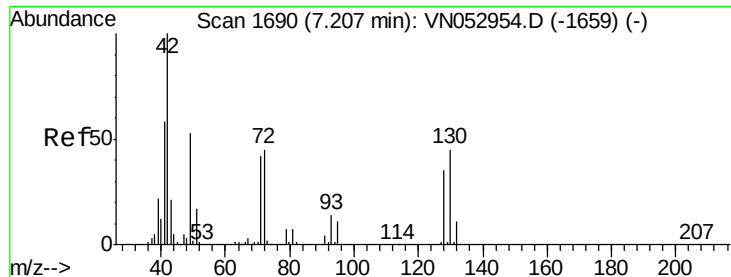
Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Tgt Ion:	49	Resp:	386498
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	80.5	63.3	94.9





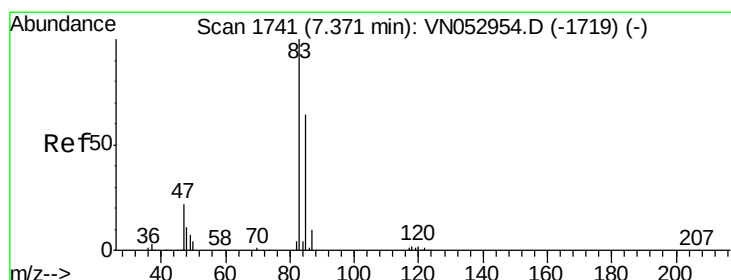
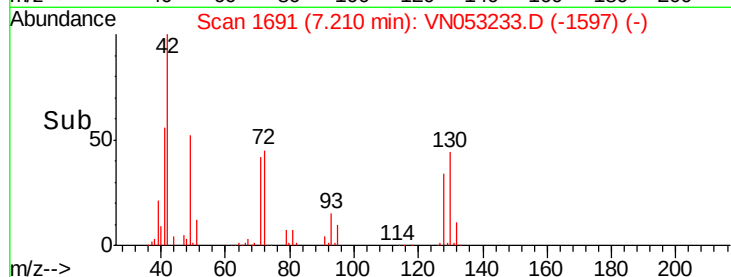
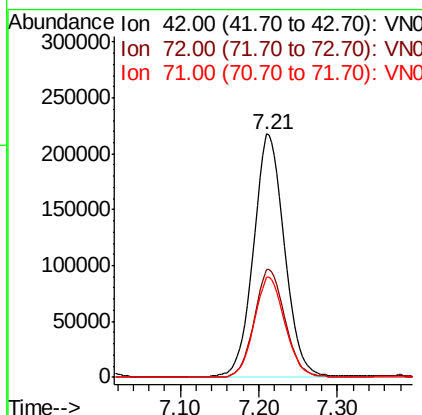
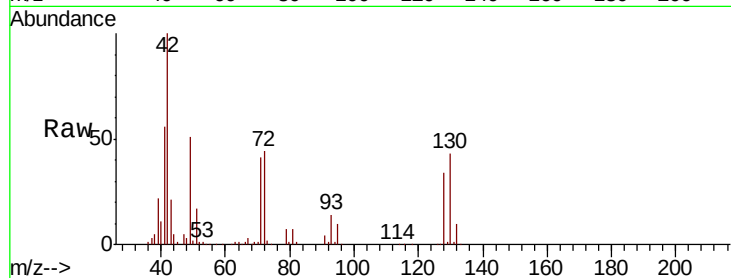
#29
Tetrahydrofuran
Concen: 290.465 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.2	34.7	52.1
71	41.1	32.3	48.5

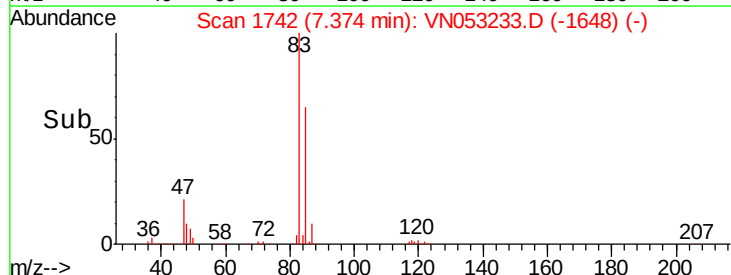
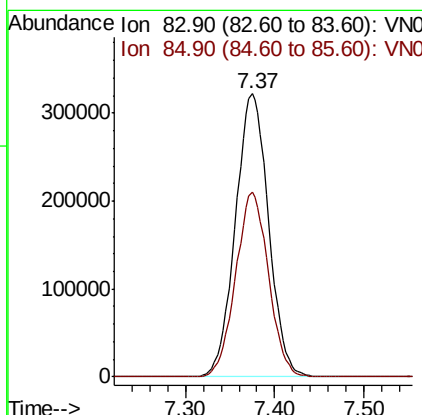
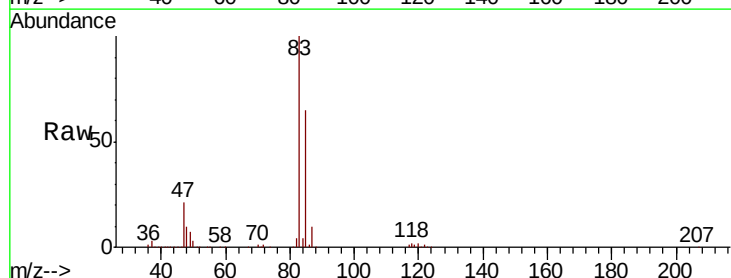
Manual Integrations
APPROVED

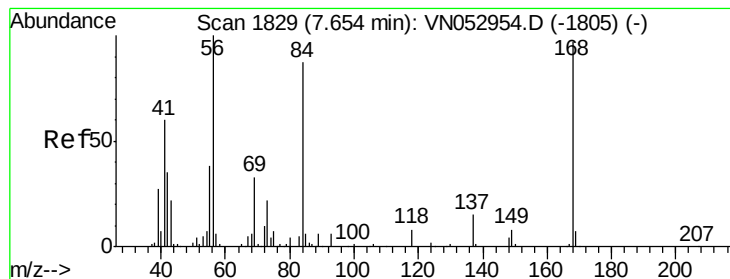
MMDadoda
1/2/2019 9:50:12 AM



#30
Chloroform
Concen: 53.676 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.1	78.1





#31

Cyclohexane

Concen: 49.547 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

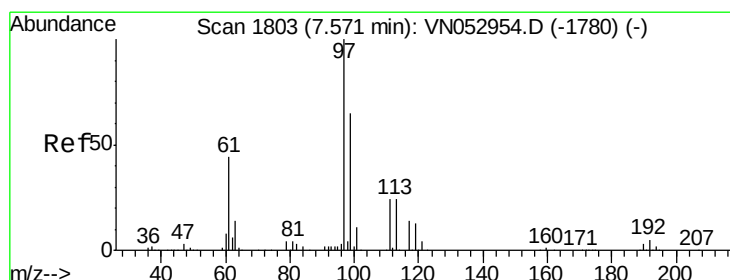
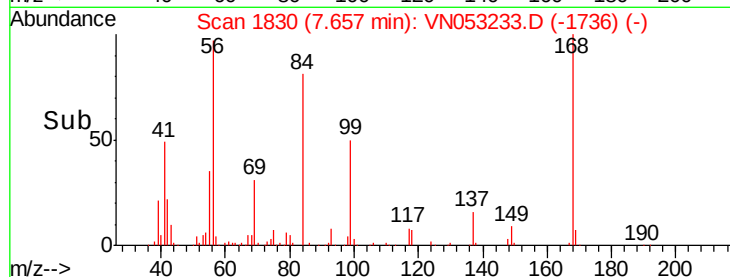
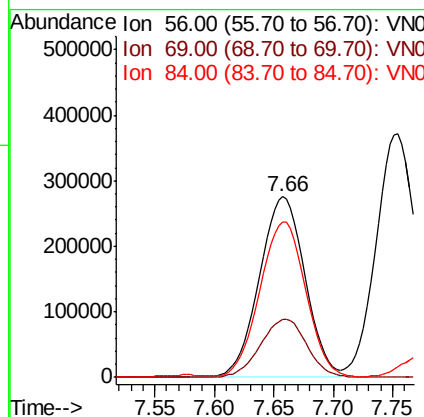
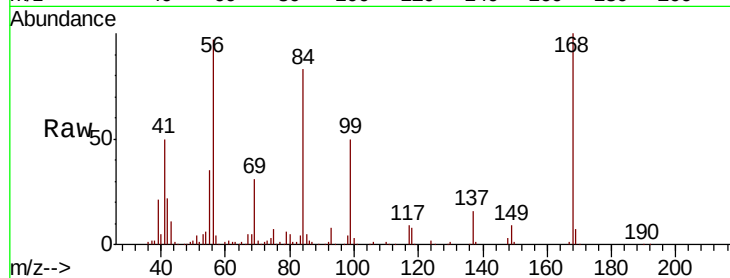
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	732805
Ion Ratio	Lower	Upper	
56	100		
69	31.9	26.6	39.8
84	84.6	68.4	102.6

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:50:12 AM



#32

1,1,1-Trichloroethane

Concen: 52.000 ug/l

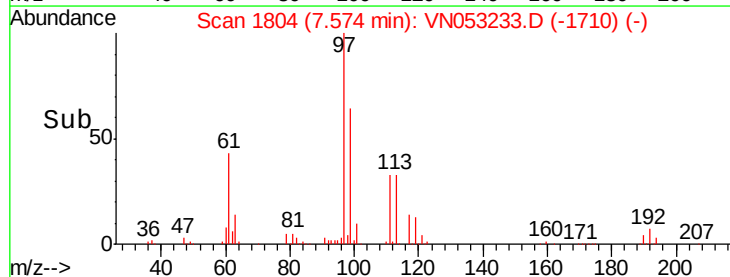
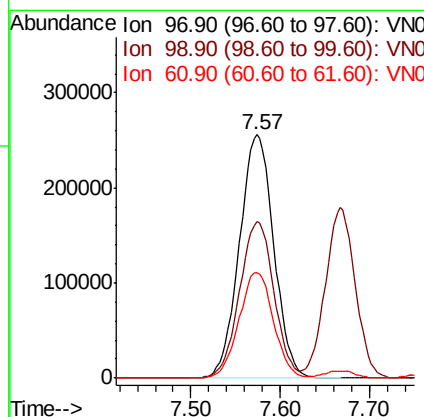
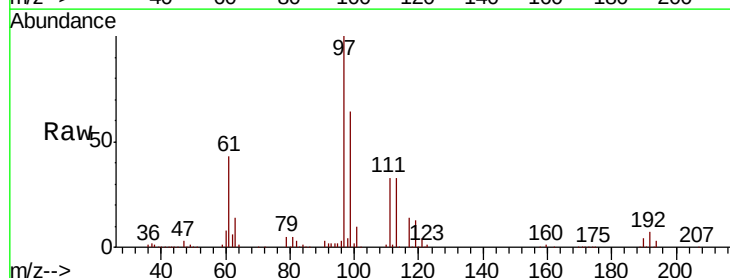
RT: 7.57 min Scan# 1804

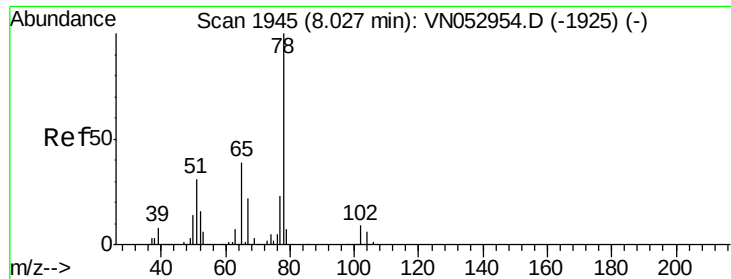
Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Tgt Ion:	97	Resp:	686091
Ion Ratio	Lower	Upper	
97	100		
99	64.3	51.1	76.7
61	43.3	35.0	52.6





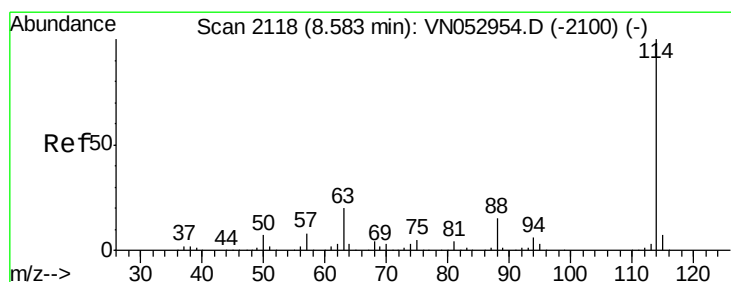
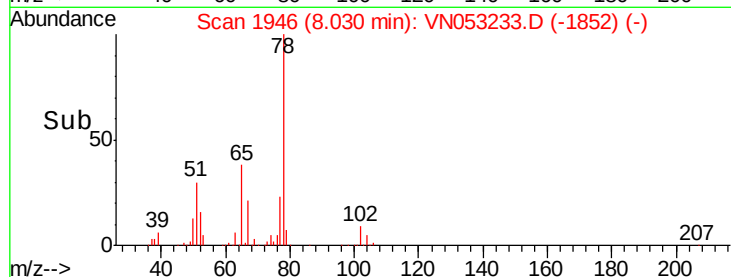
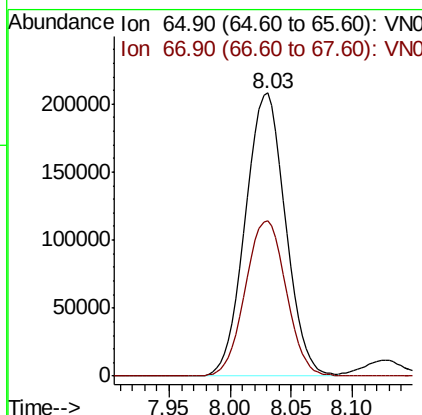
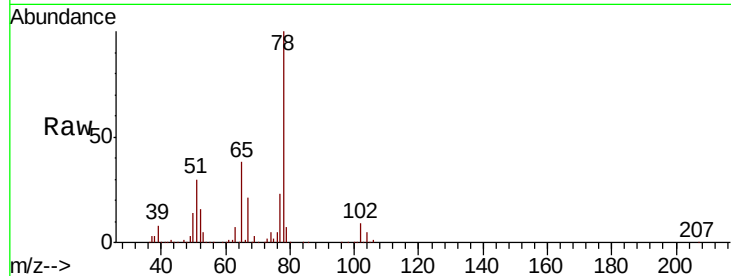
#33
 1,2-Dichloroethane-d4
 Concen: 52.000 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.9	0.0	110.4

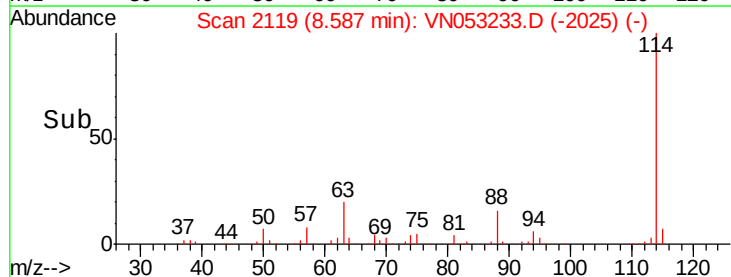
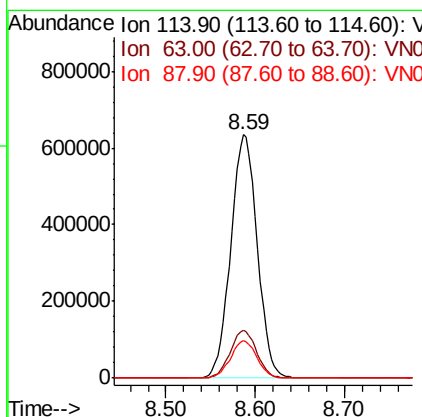
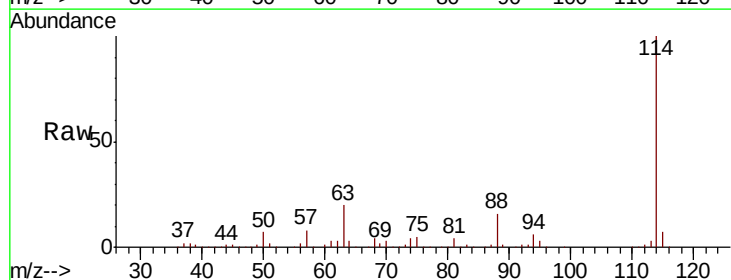
Manual Integrations
 APPROVED

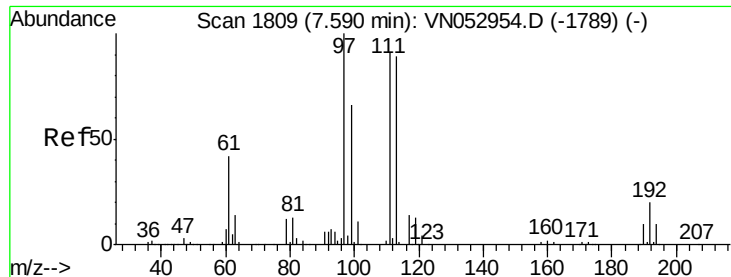
MMDadoda
 1/2/2019 9:50:12 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	39.8
88	15.6	0.0	31.0





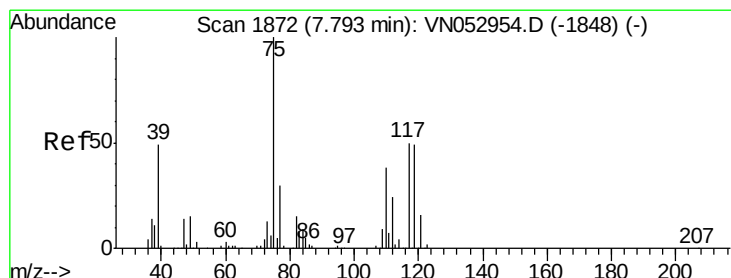
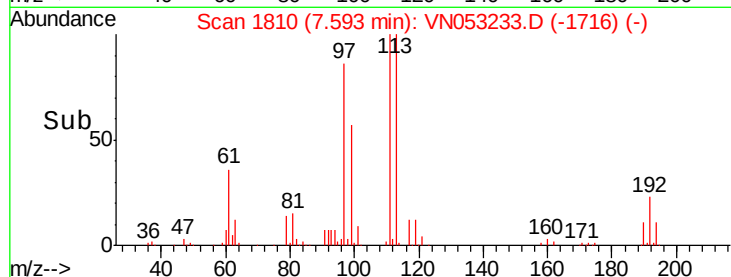
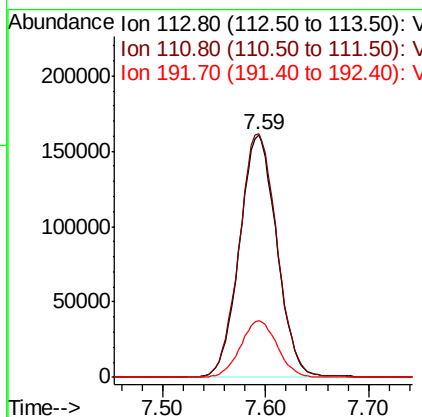
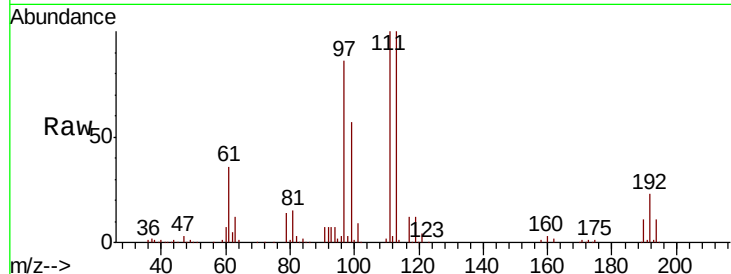
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	403219		
111	102.2	83.0	124.4	
192	23.0	17.5	26.3	

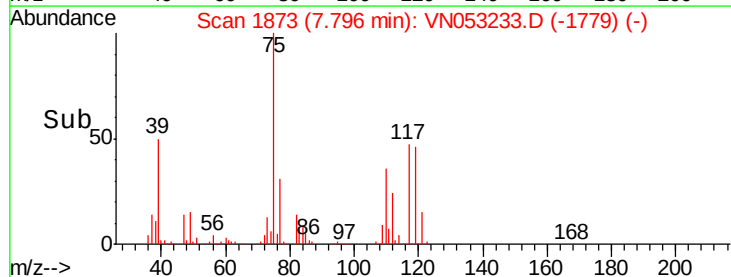
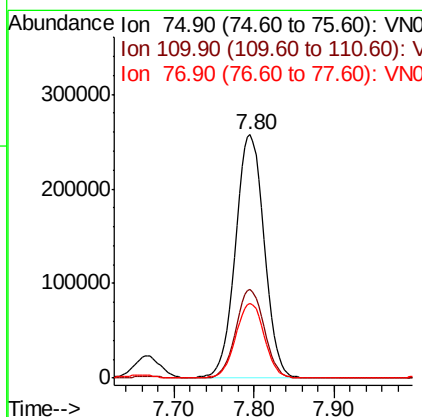
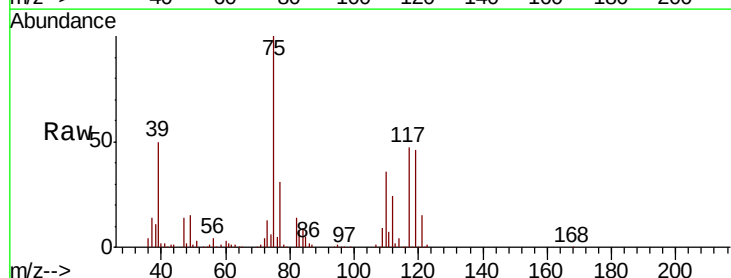
Manual Integrations
 APPROVED

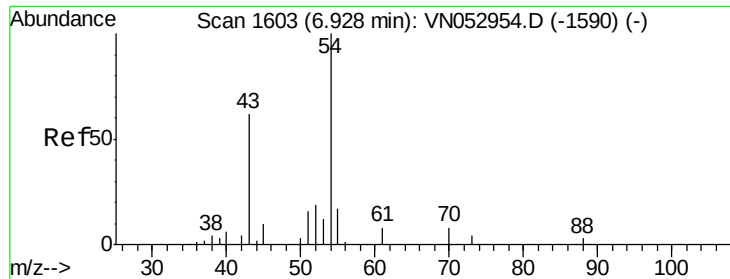
MMDadoda
 1/2/2019 9:50:12 AM



#36
 1,1-Dichloropropene
 Concen: 49.782 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	622277		
110	36.0	18.2	54.6	
77	30.7	24.9	37.3	





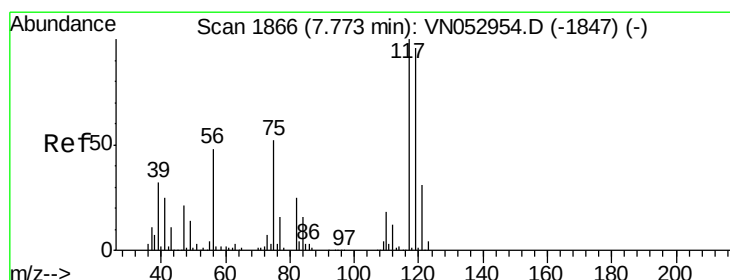
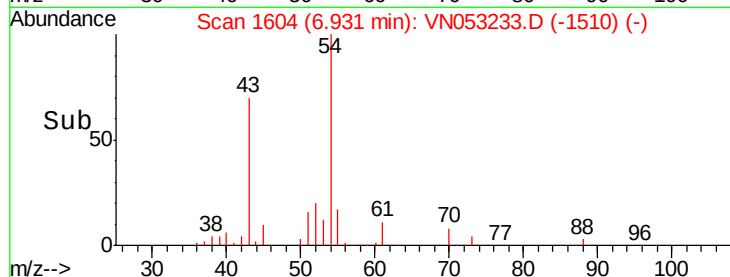
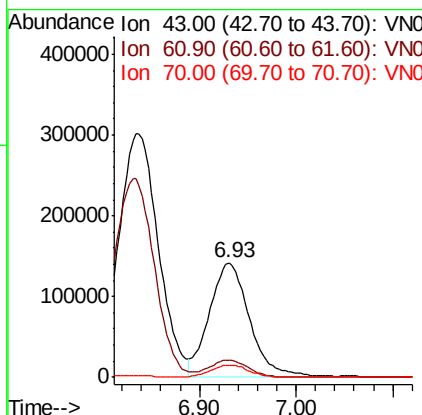
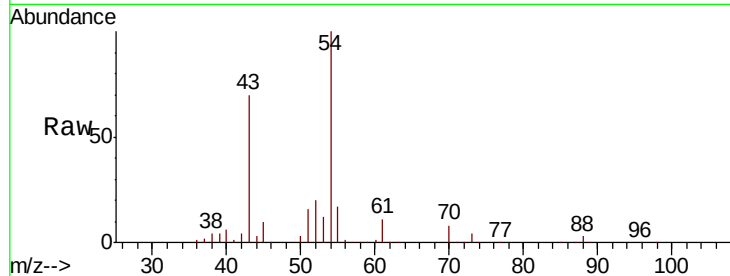
#37
Ethyl Acetate
Concen: 57.828 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.8	17.6
70	10.6	8.4	12.6

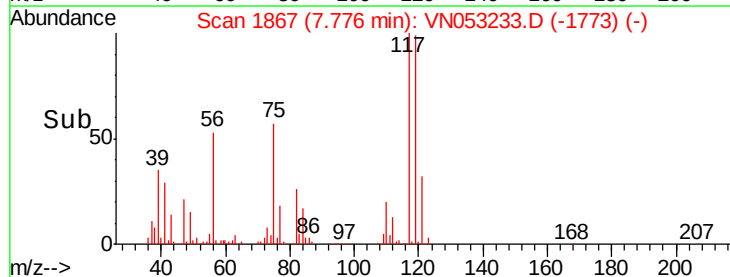
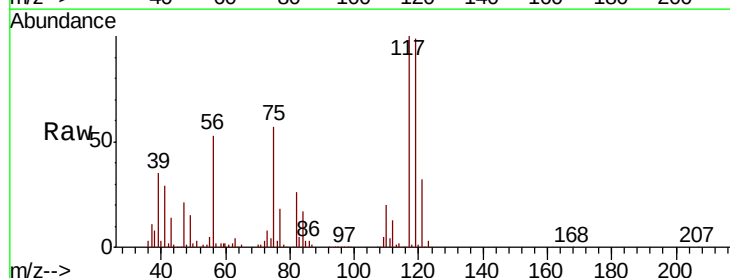
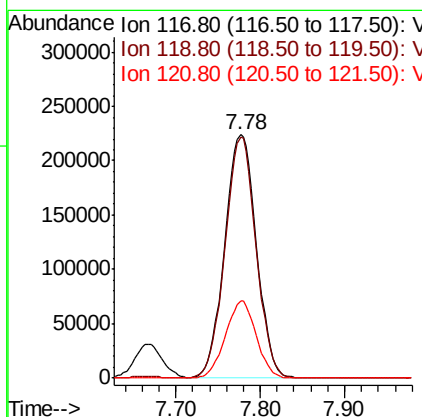
Manual Integrations
APPROVED

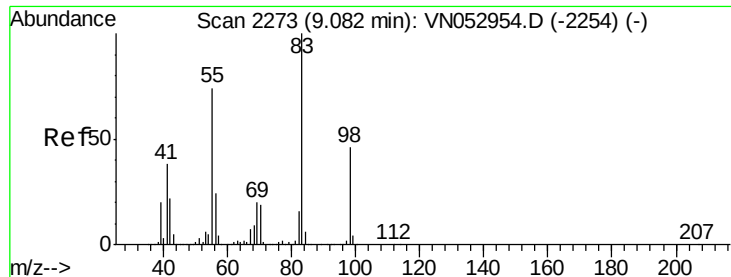
MMDadoda
1/2/2019 9:50:12 AM



#38
Carbon Tetrachloride
Concen: 50.917 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.9	77.1	115.7
121	31.6	24.9	37.3





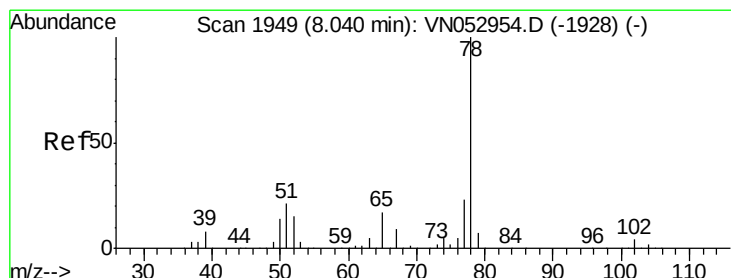
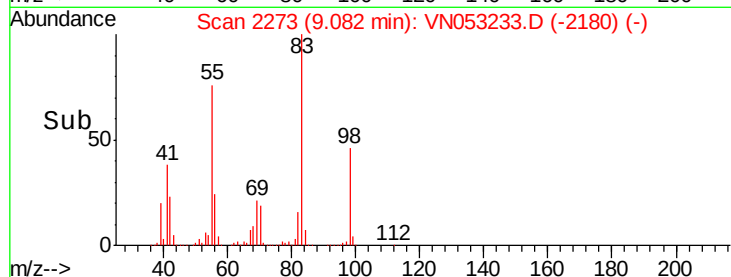
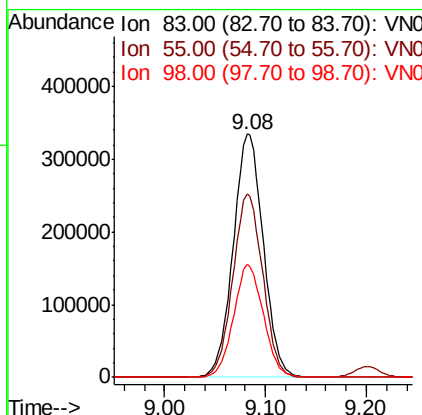
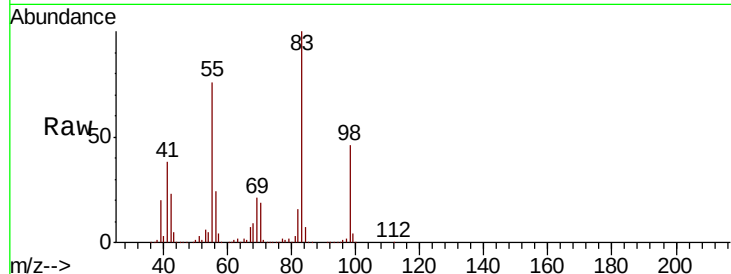
#39
Methylvlcyclohexane
Concen: 45.756 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.5	61.3	91.9
98	46.3	37.0	55.4

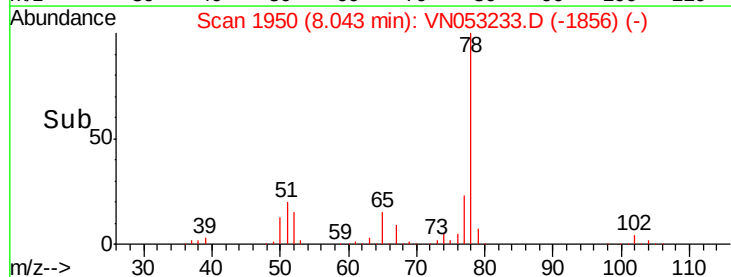
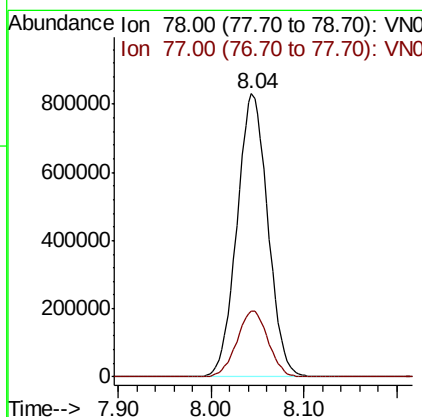
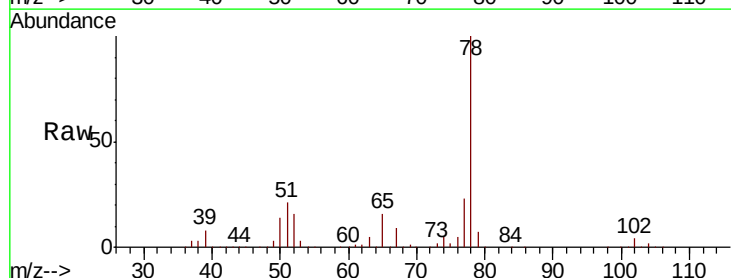
Manual Integrations
APPROVED

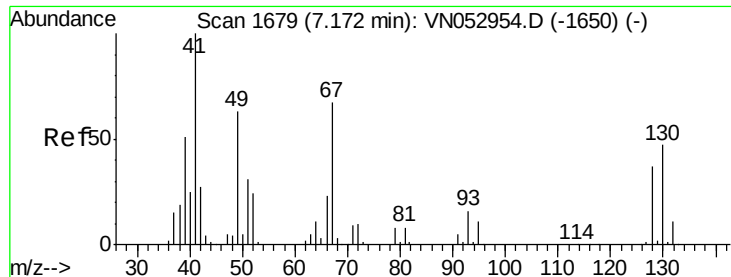
MMDadoda
1/2/2019 9:50:12 AM



#40
Benzene
Concen: 51.580 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.5	27.7





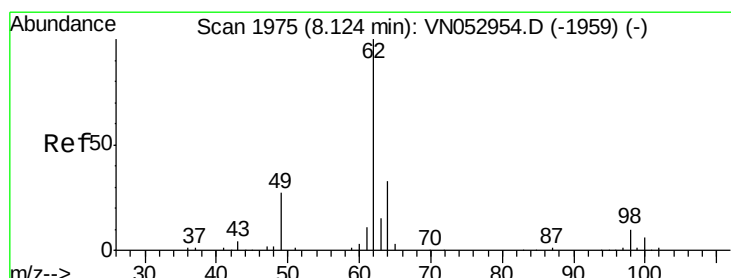
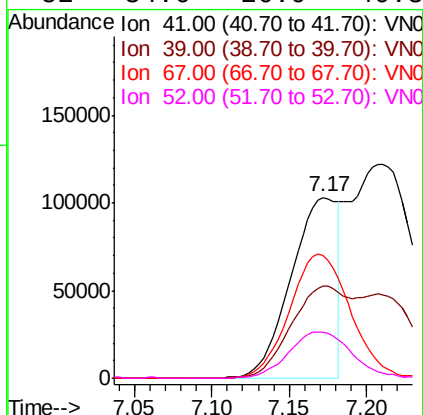
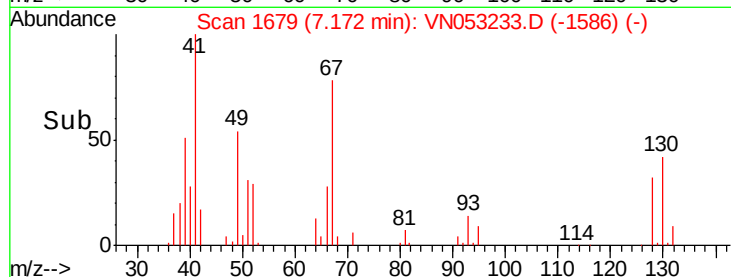
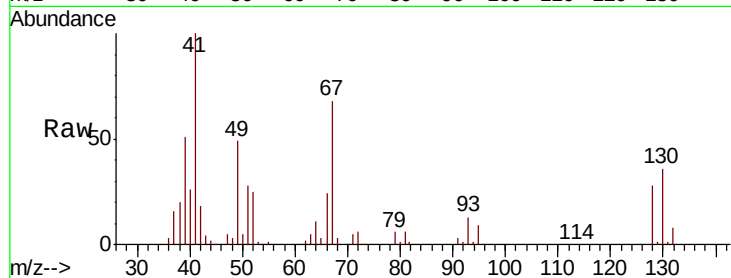
#41
Methacrylonitrile
Concen: 53.096 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	63.6	48.0	72.0
67	90.8	70.3	105.5
52	34.6	26.9	40.3

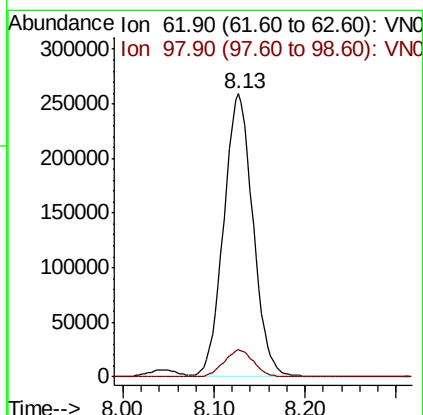
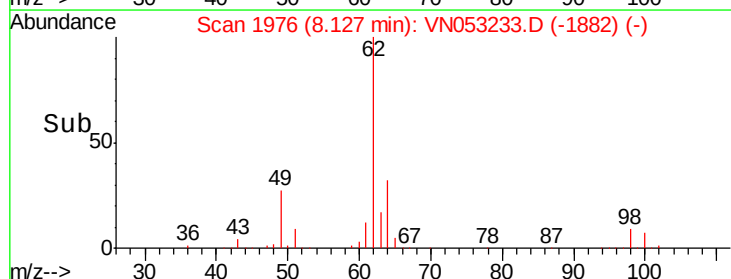
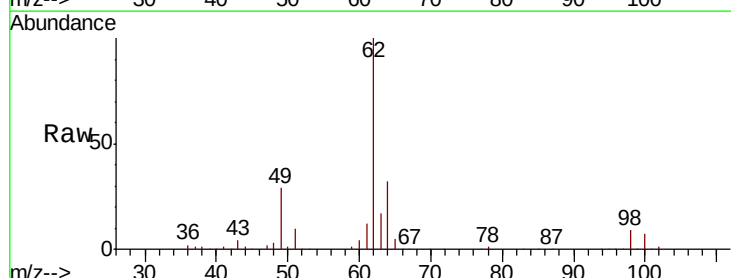
Manual Integrations
APPROVED

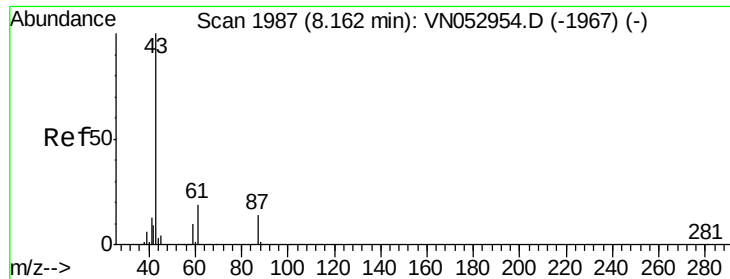
MMDadoda
1/2/2019 9:50:12 AM



#42
1,2-Dichloroethane
Concen: 52.708 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.0





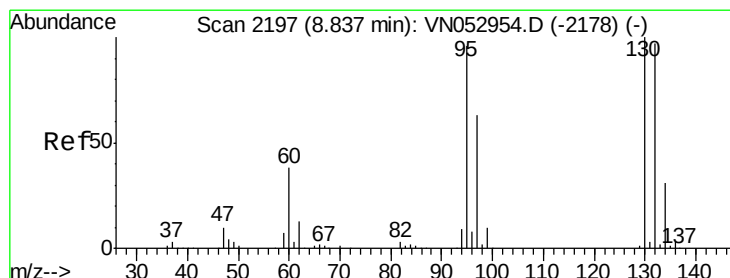
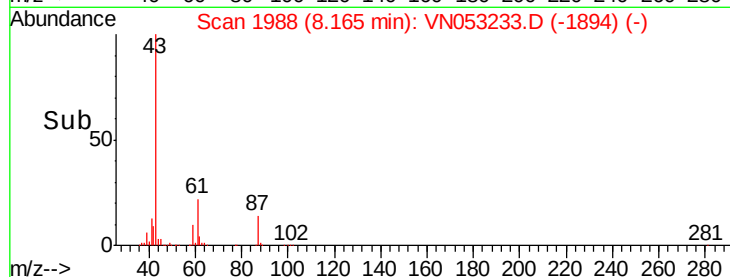
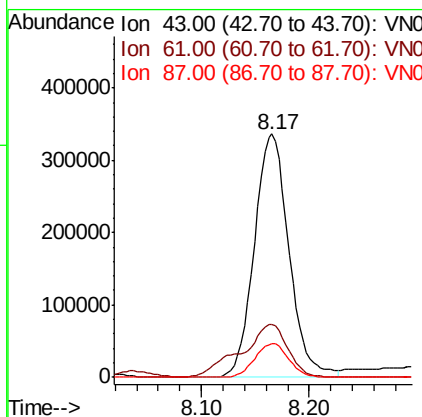
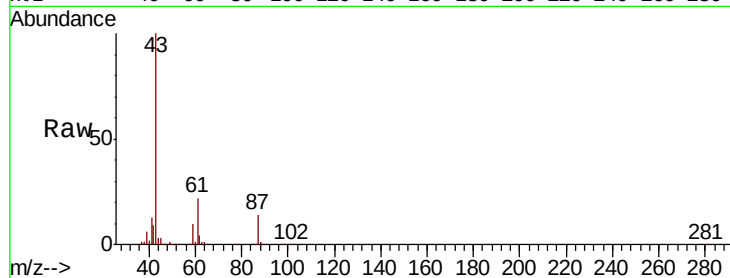
#43
Isopropyl Acetate
Concen: 55.411 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.4	22.9	34.3
87	13.6	10.6	15.8

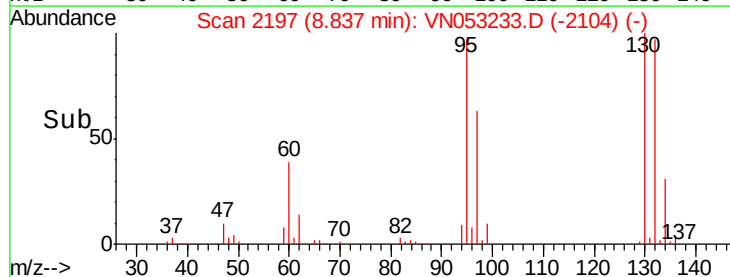
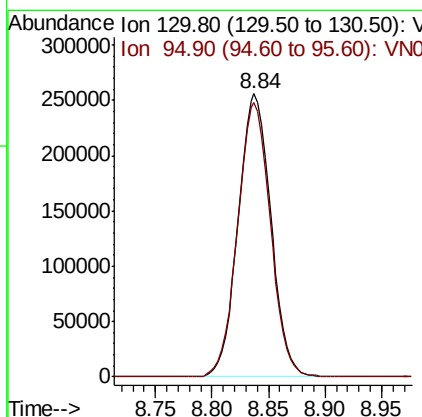
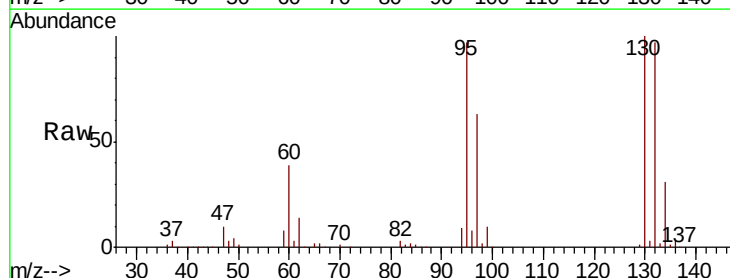
Manual Integrations
APPROVED

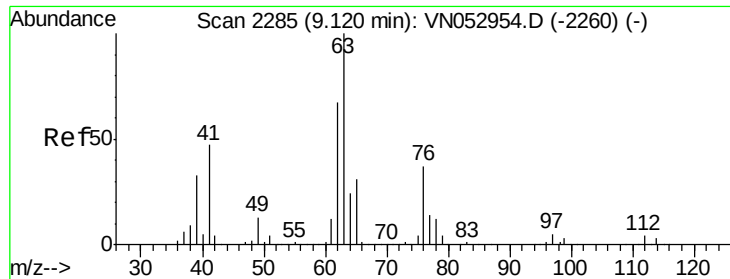
MMDadoda
1/2/2019 9:50:12 AM



#44
Trichloroethene
Concen: 48.016 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	197.8





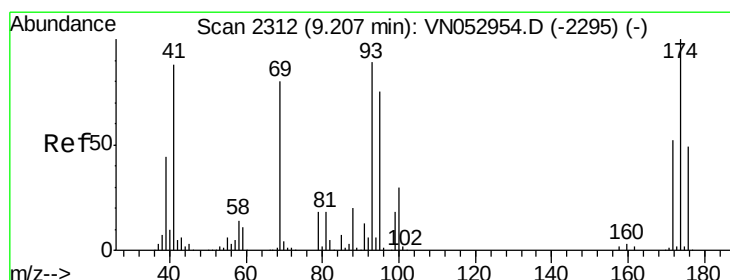
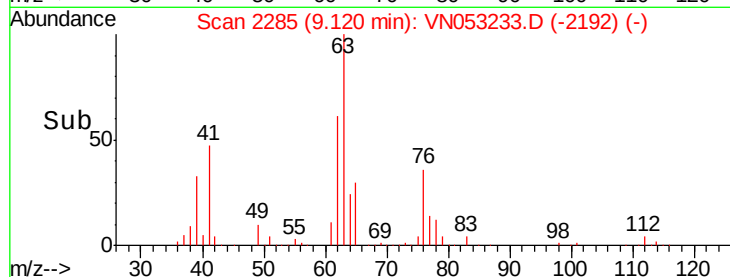
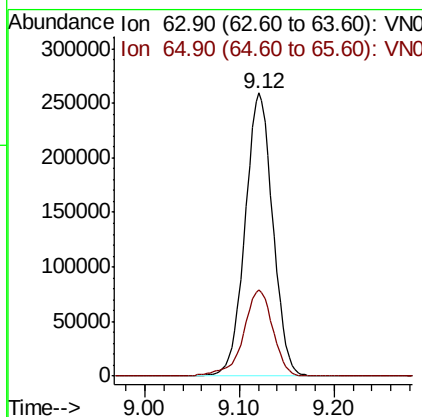
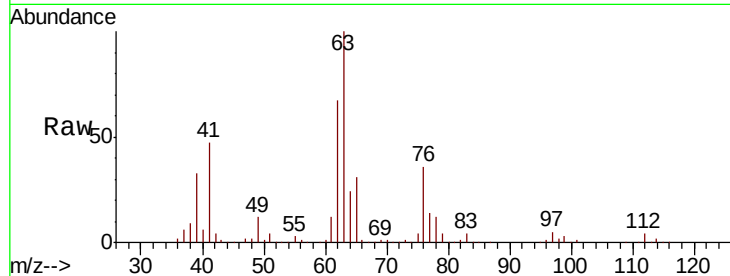
#45
 1,2-Dichloropropane
 Concen: 54.451 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 527338
 Ion Ratio Lower Upper
 63 100
 65 30.6 24.6 37.0

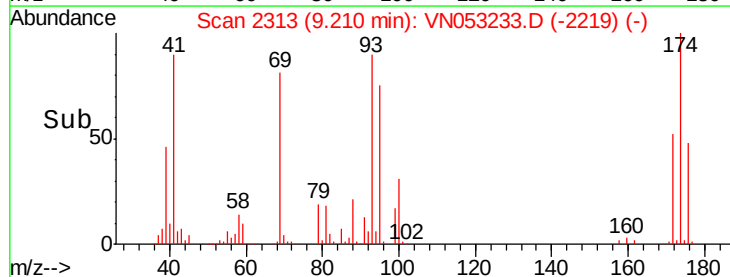
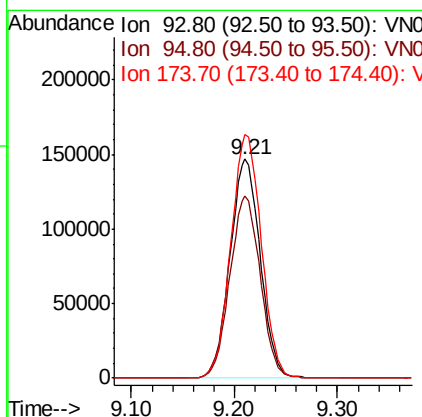
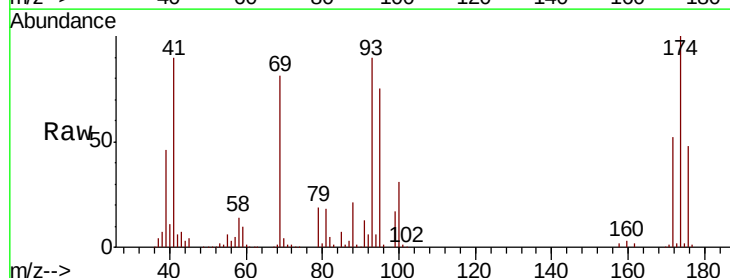
Manual Integrations
 APPROVED

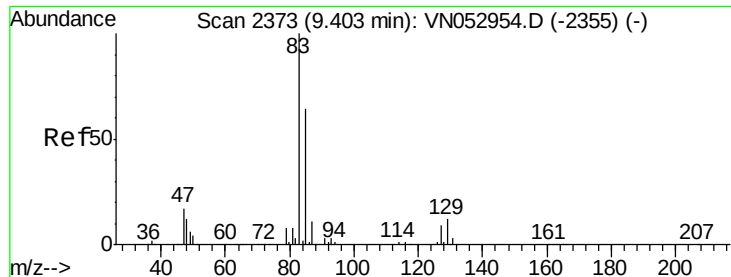
MMDadoda
 1/2/2019 9:50:12 AM



#46
 Dibromomethane
 Concen: 53.387 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Tgt Ion: 93 Resp: 301198
 Ion Ratio Lower Upper
 93 100
 95 83.2 67.8 101.6
 174 111.6 89.0 133.4





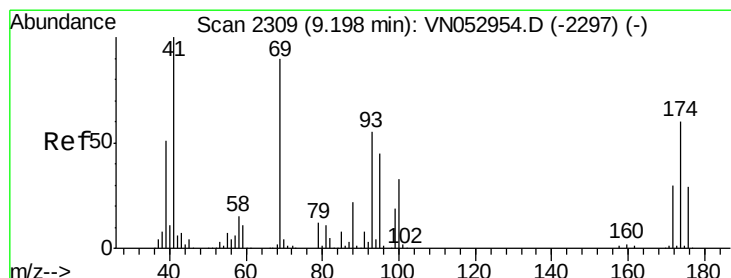
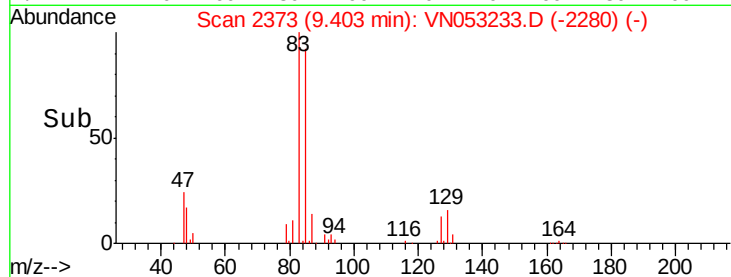
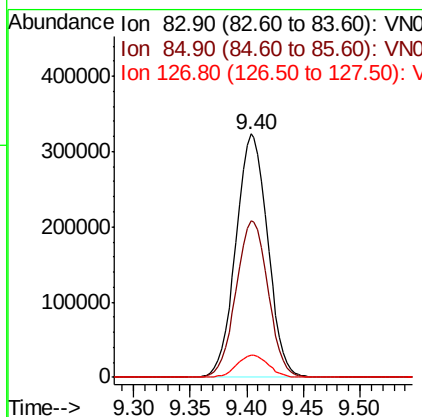
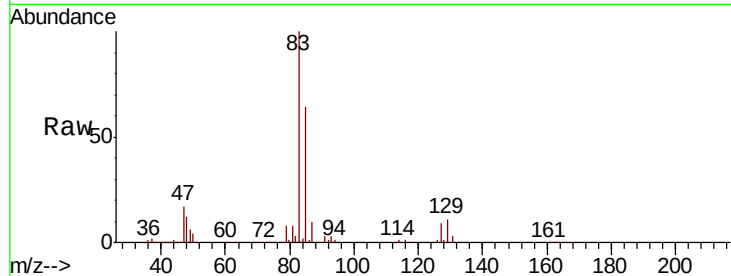
#47
Bromodichloromethane
Concen: 52.946 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.6	77.4
127	8.9	7.1	10.7

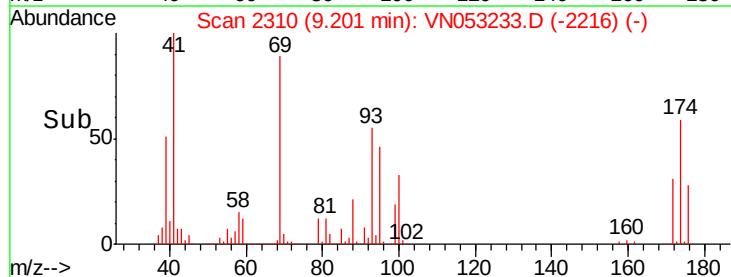
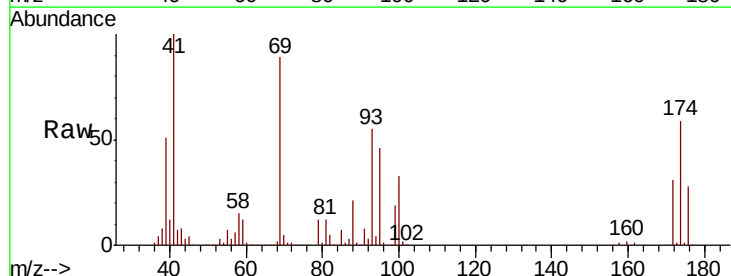
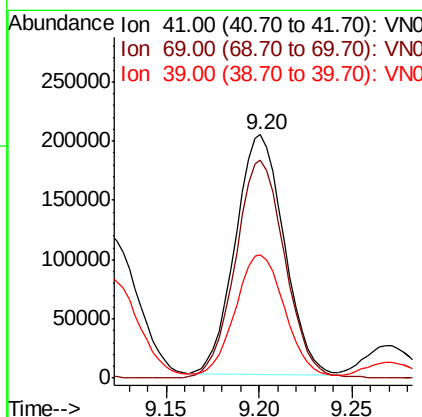
Manual Integrations
APPROVED

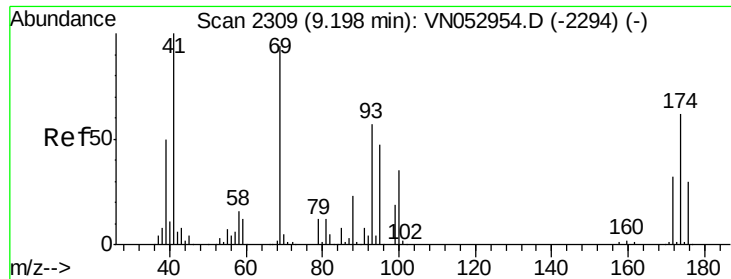
MMDadoda
1/2/2019 9:50:12 AM



#48
Methyl methacrylate
Concen: 54.788 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
41	100		
69	92.5	72.2	108.2
39	52.8	41.9	62.9





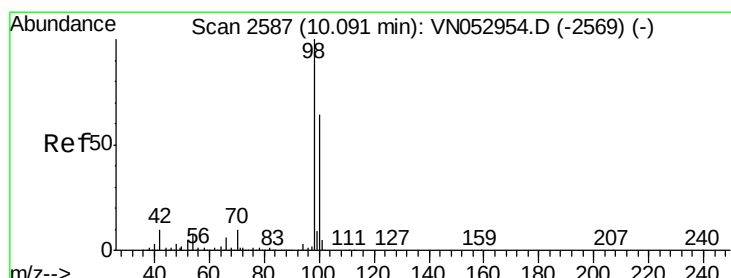
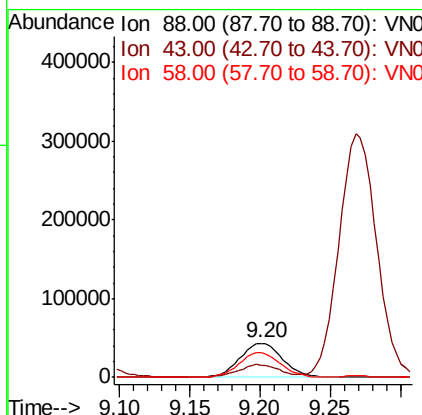
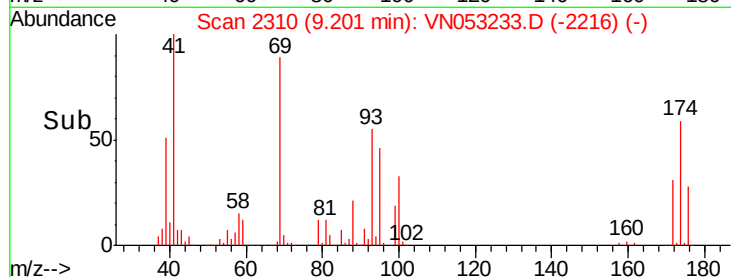
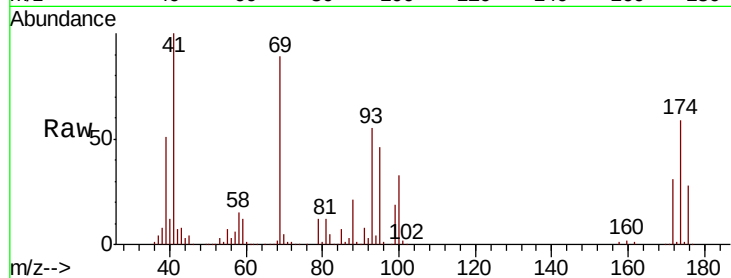
#49
1,4-Dioxane
Concen: 1066.238 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	91329
Ion Ratio	Lower	Upper	
88	100		
43	33.6	26.6	40.0
58	70.5	58.4	87.6

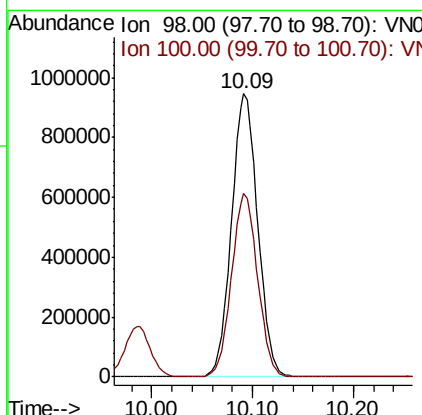
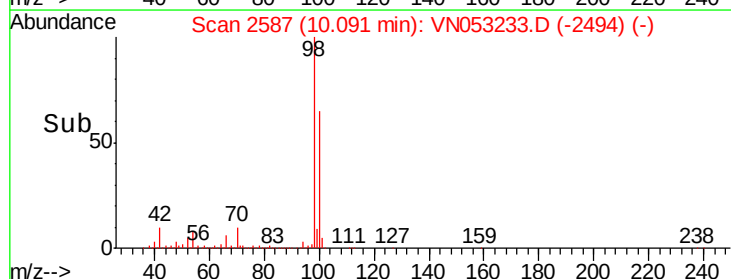
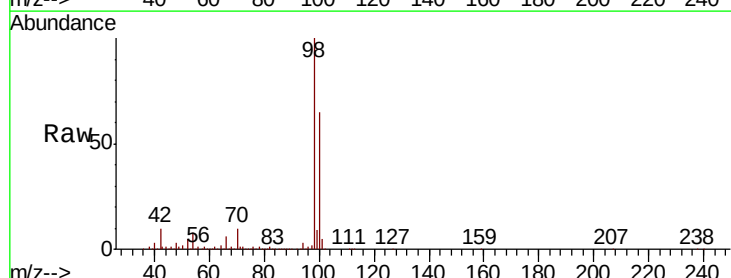
Manual Integrations
APPROVED

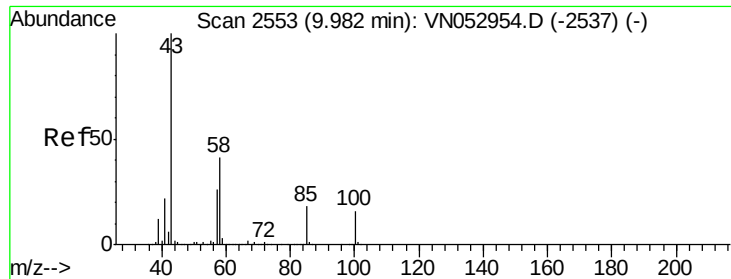
MMDadoda
1/2/2019 9:50:12 AM



#50
Toluene-d8
Concen: 1066.238 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	98	Resp	1706080
Ion Ratio	Lower	Upper	
98	100		
100	64.4	51.6	77.4





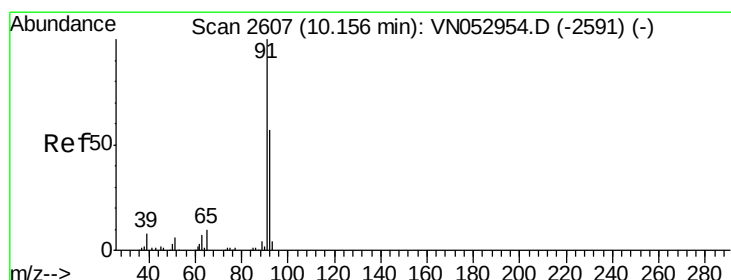
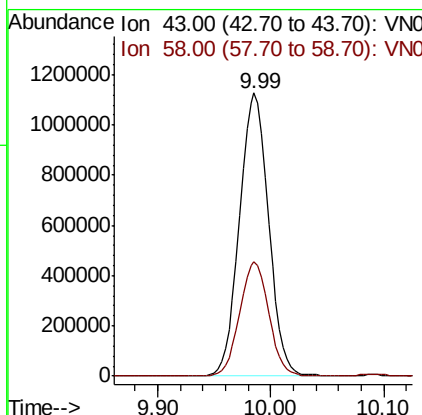
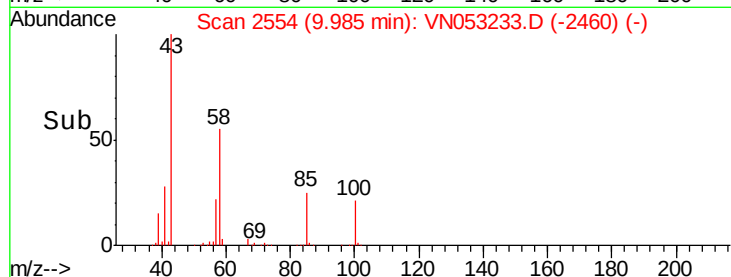
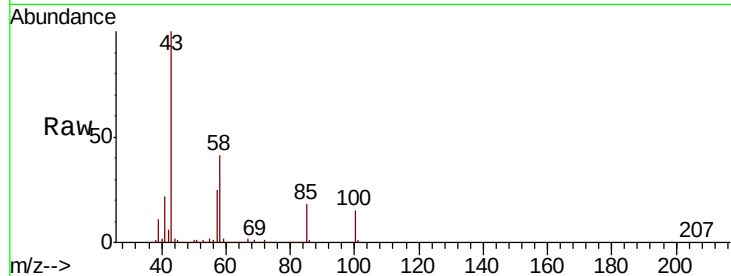
#51
4-Methyl-2-Pentanone
Concen: 299.220 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 2022073
Ion Ratio Lower Upper
43 100
58 40.6 32.2 48.4

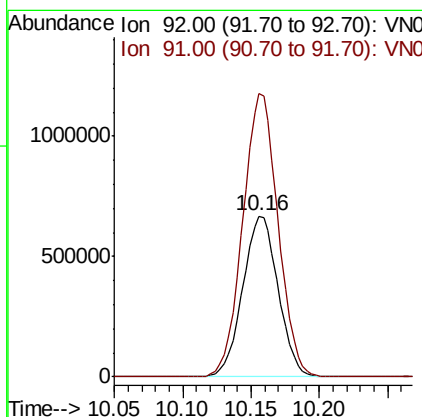
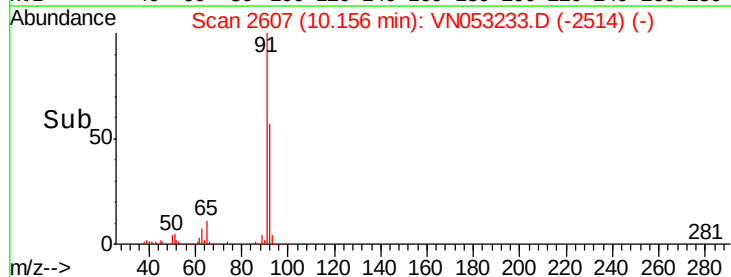
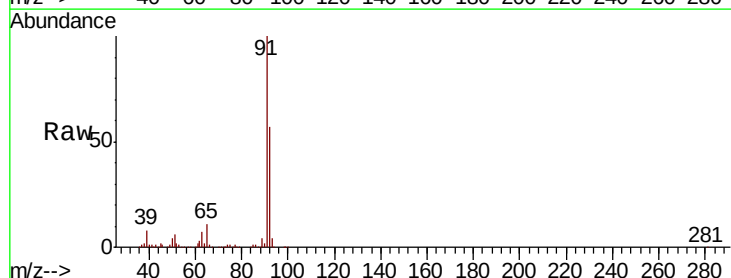
Manual Integrations
APPROVED

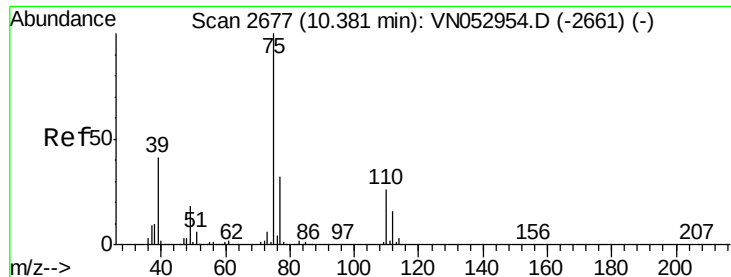
MMDadoda
1/2/2019 9:50:12 AM



#52
Toluene
Concen: 51.958 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion: 92 Resp: 1197424
Ion Ratio Lower Upper
92 100
91 176.4 139.8 209.6





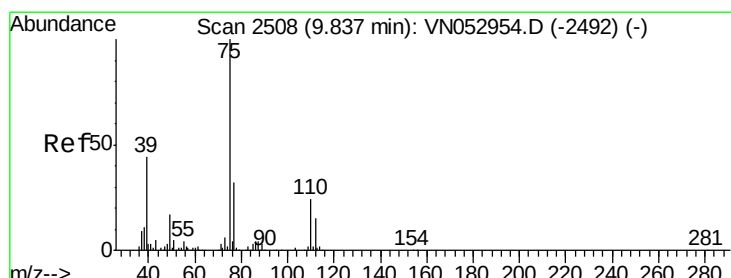
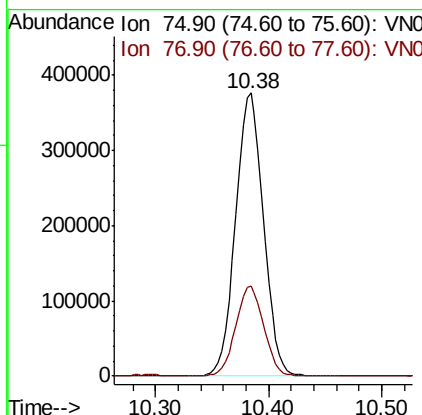
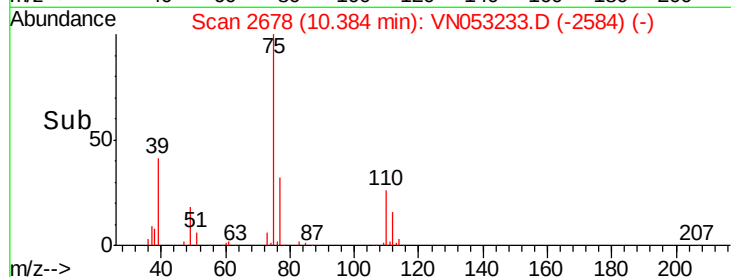
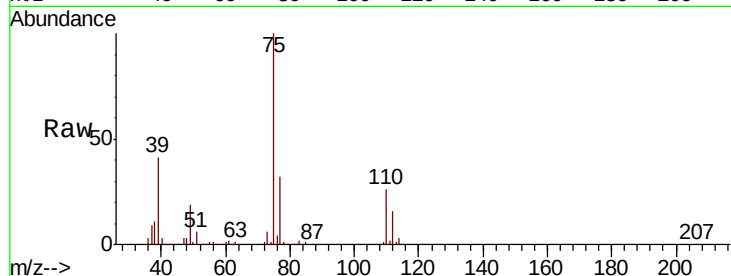
#53
t-1,3-Dichloropropene
Concen: 51.311 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 75 Resp: 647063
Ion Ratio Lower Upper
75 100
77 31.8 25.6 38.4

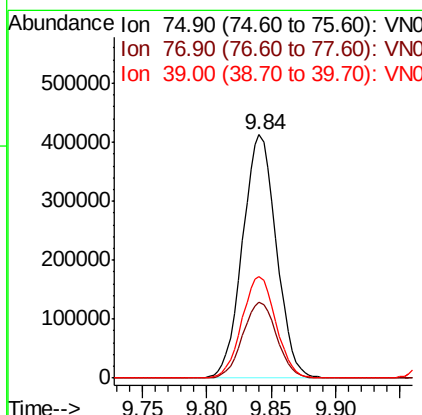
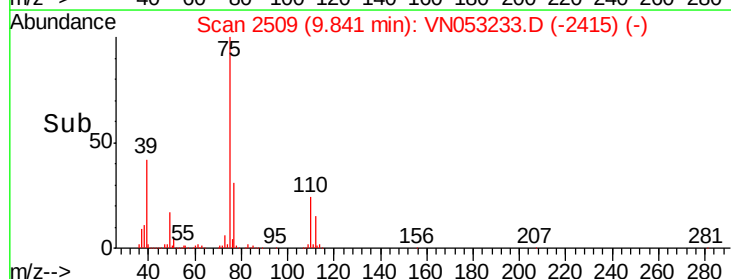
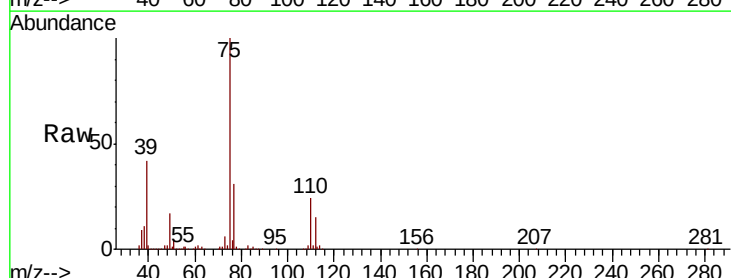
Manual Integrations
APPROVED

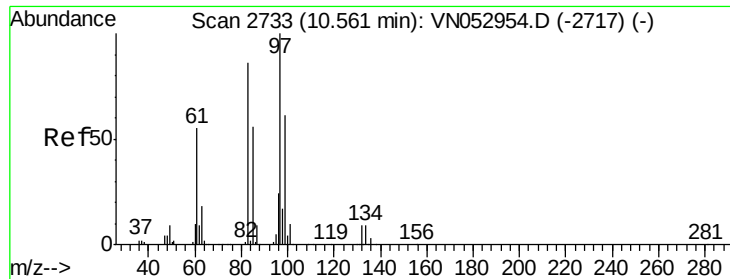
MMDadoda
1/2/2019 9:50:12 AM



#54
cis-1,3-Dichloropropene
Concen: 52.119 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion: 75 Resp: 754408
Ion Ratio Lower Upper
75 100
77 30.9 25.8 38.8
39 41.8 34.8 52.2





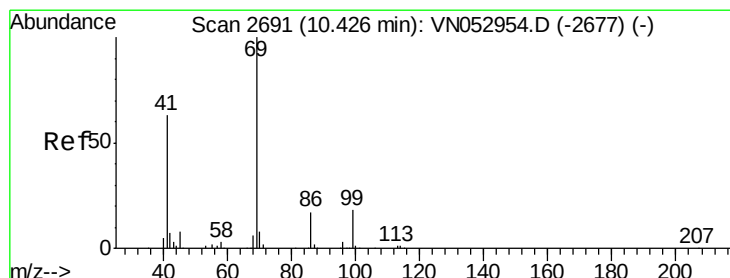
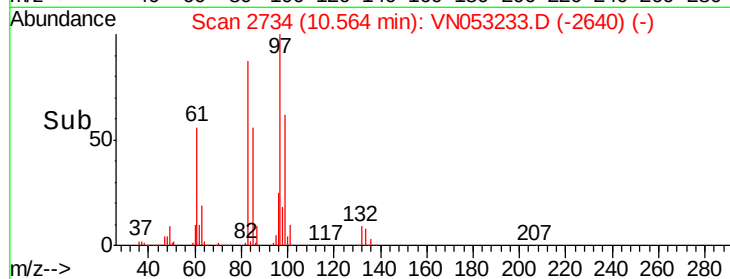
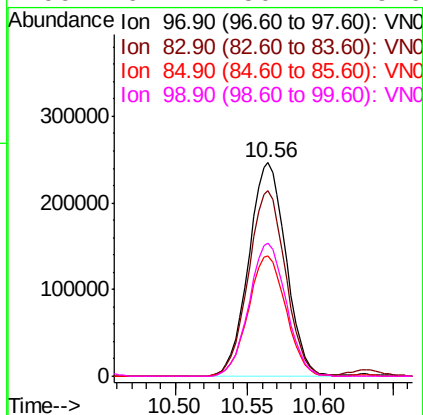
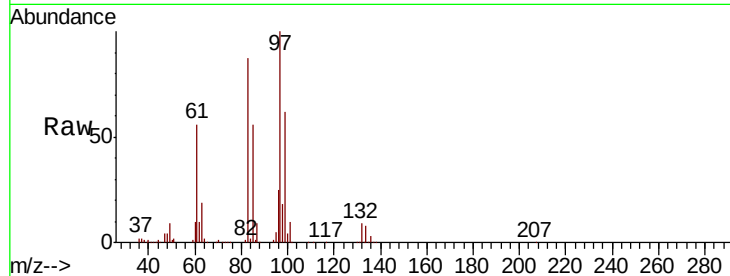
#55
 1,1,2-Trichloroethane
 Concen: 54.918 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	441543
Ion	Ratio	Lower	Upper
97	100		
83	86.8	70.9	106.3
85	56.3	45.4	68.2
99	62.1	50.4	75.6

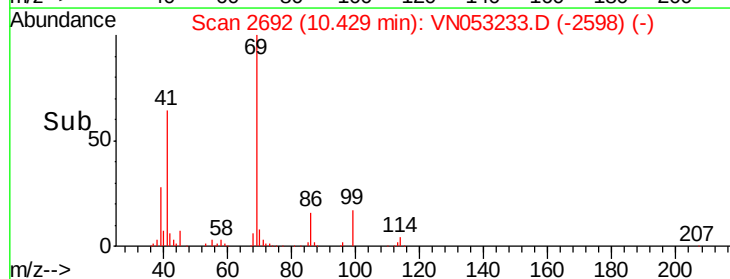
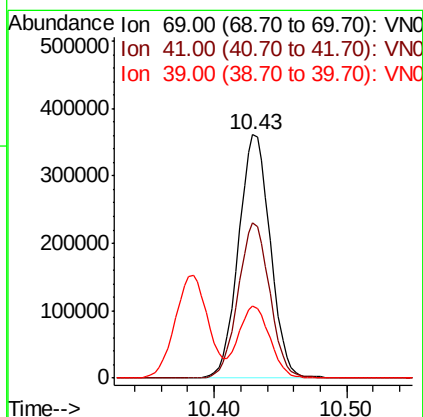
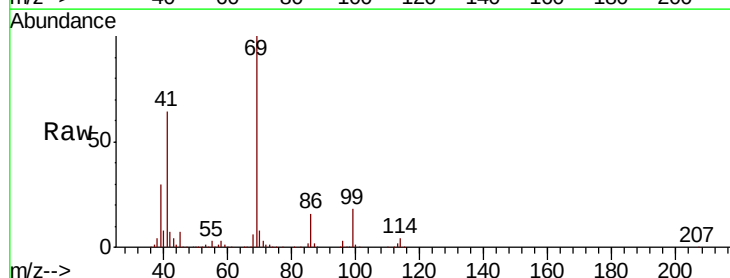
Manual Integrations
 APPROVED

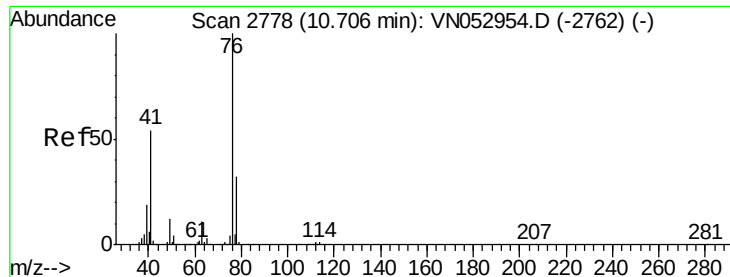
MMDadoda
 1/2/2019 9:50:12 AM



#56
 Ethyl methacrylate
 Concen: 56.344 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Tgt Ion:	69	Resp:	599595
Ion	Ratio	Lower	Upper
69	100		
41	63.1	51.7	77.5
39	29.8	24.6	37.0





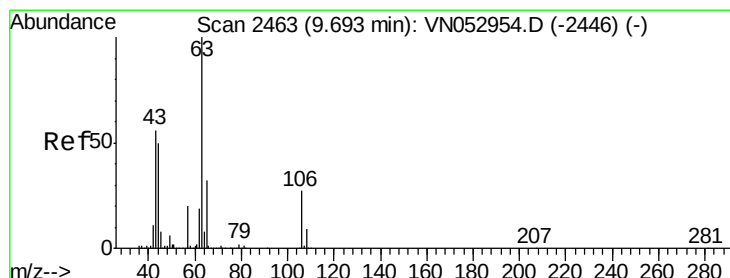
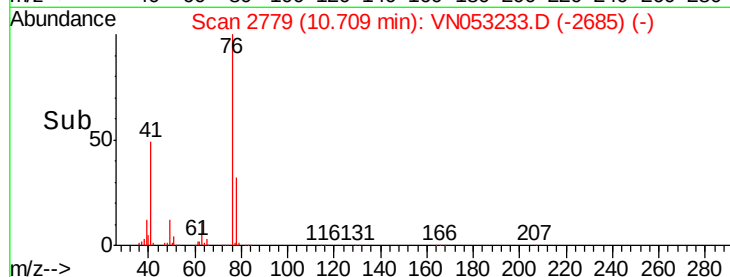
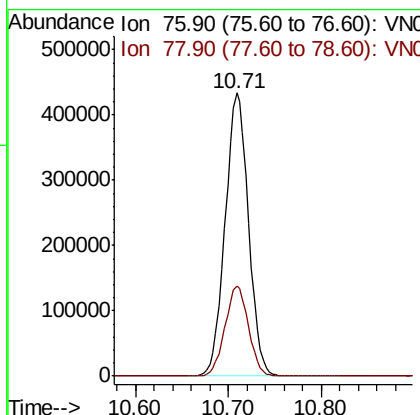
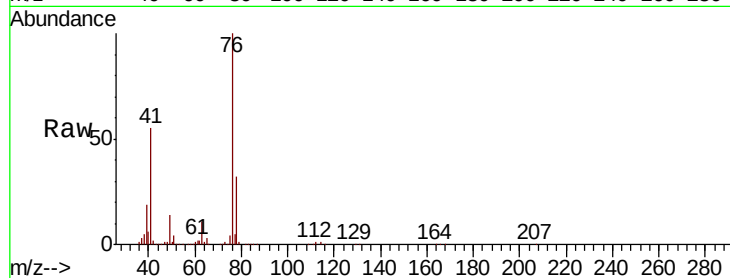
#57
 1,3-Dichloropropane
 Concen: 54.714 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8

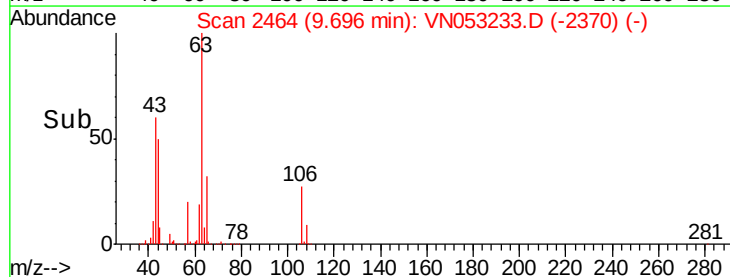
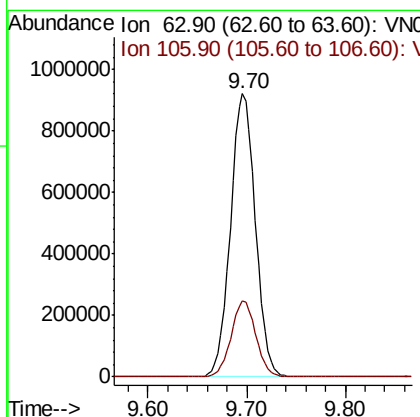
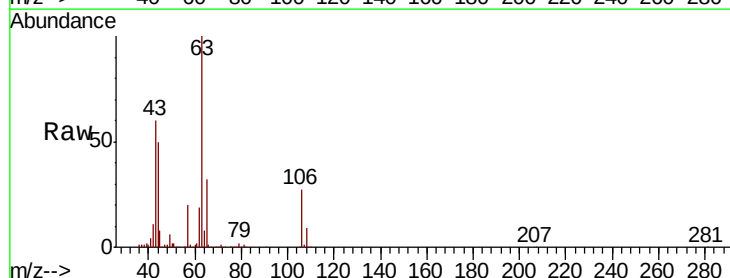
Manual Integrations
 APPROVED

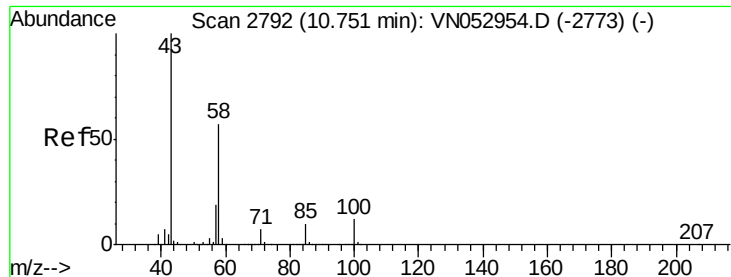
MMDadoda
 1/2/2019 9:50:12 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 277.378 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.0	31.6





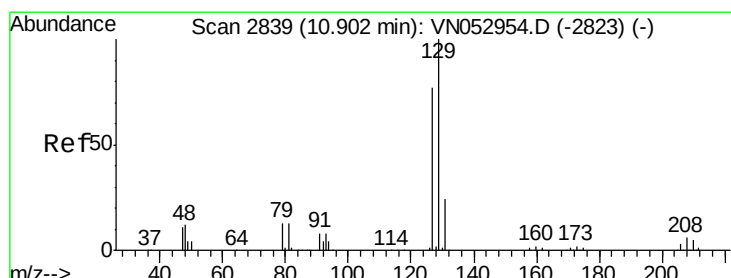
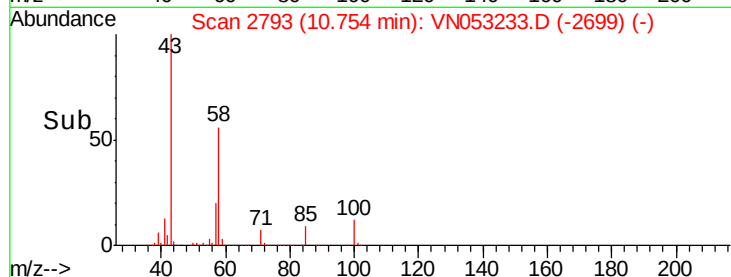
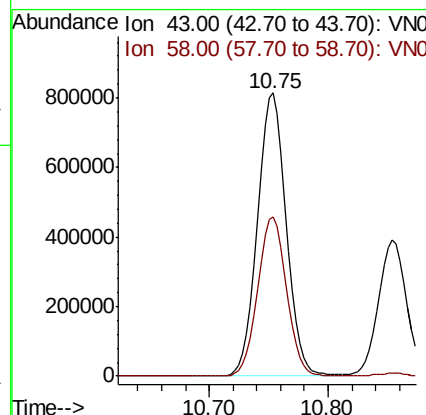
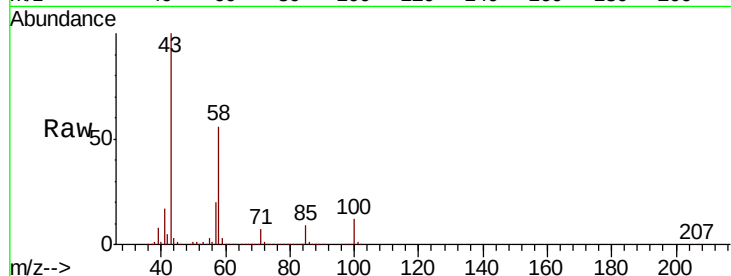
#59
2-Hexanone
Concen: 297.226 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 1358979
Ion Ratio Lower Upper
43 100
58 56.6 28.1 84.3

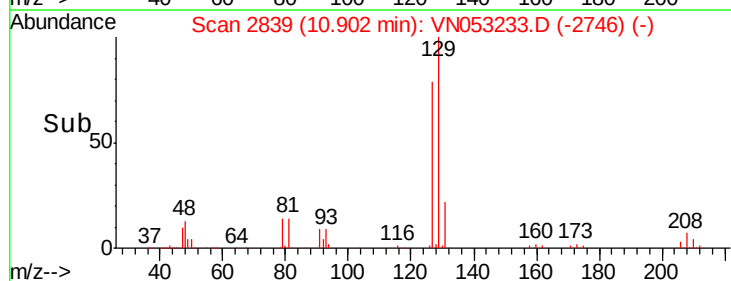
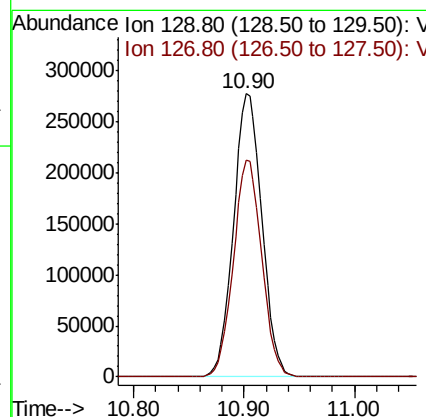
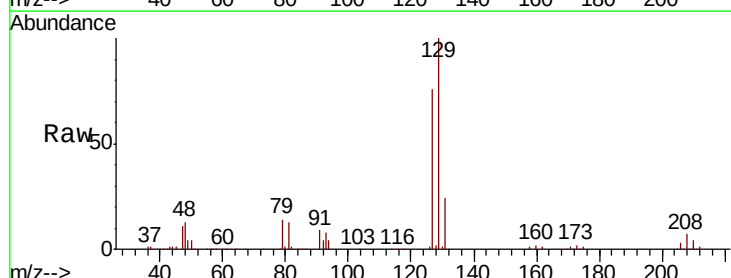
Manual Integrations
APPROVED

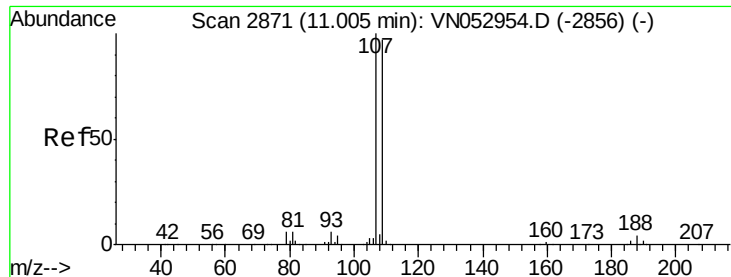
MMDadoda
1/2/2019 9:50:12 AM



#60
Dibromochloromethane
Concen: 53.708 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion: 129 Resp: 494286
Ion Ratio Lower Upper
129 100
127 76.4 38.6 116.0





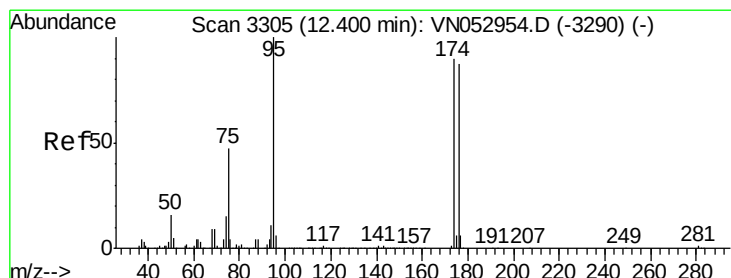
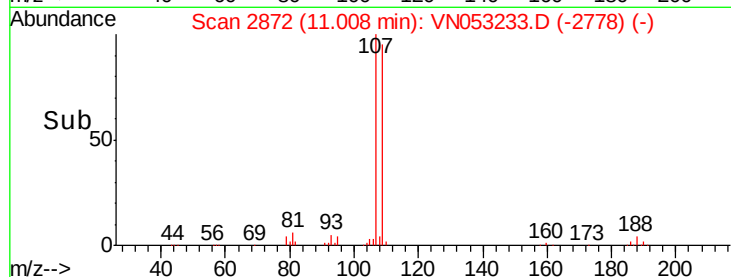
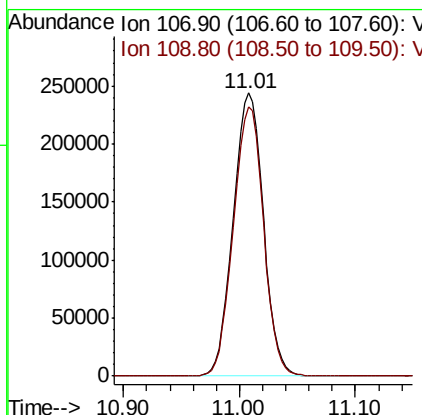
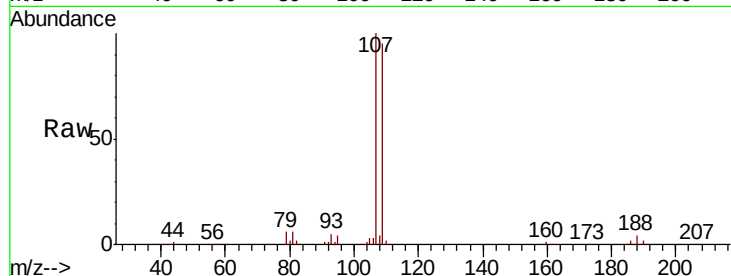
#61
 1,2-Dibromoethane
 Concen: 53.681 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.4	113.0

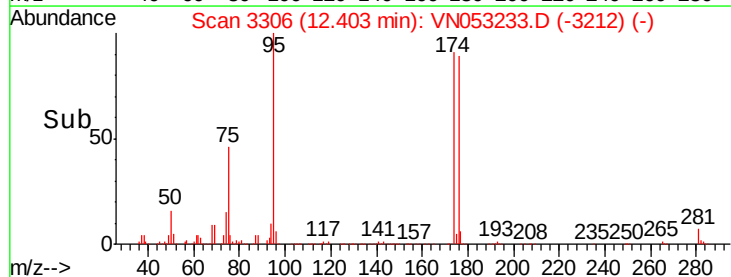
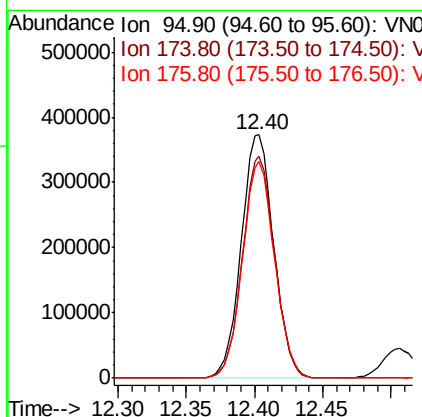
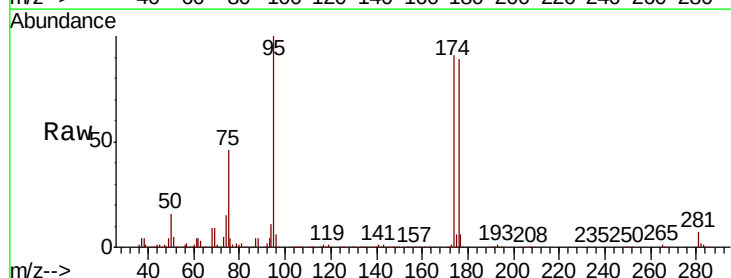
Manual Integrations
 APPROVED

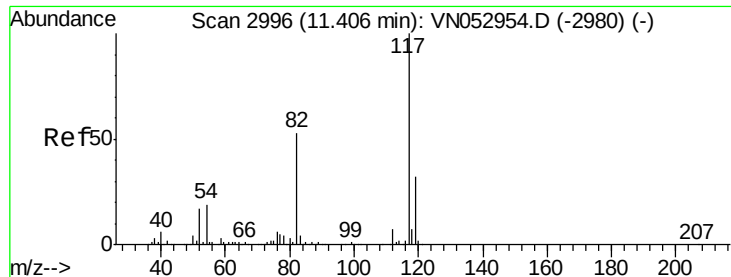
MMDadoda
 1/2/2019 9:50:12 AM



#62
 4-Bromofluorobenzene
 Concen: 53.681 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.7	0.0	178.8
176	88.0	0.0	173.8





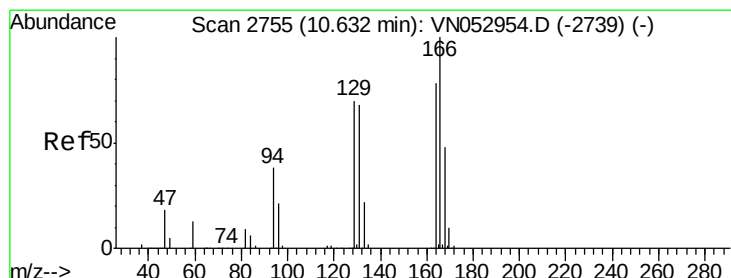
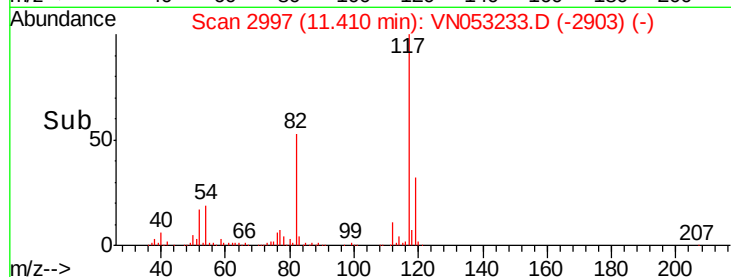
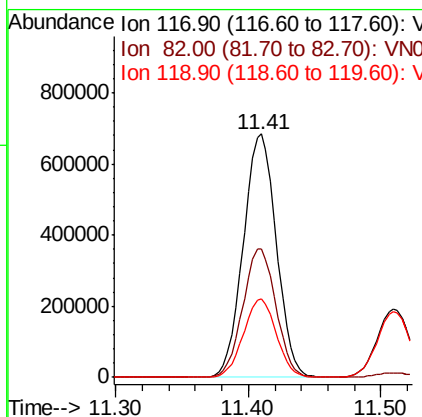
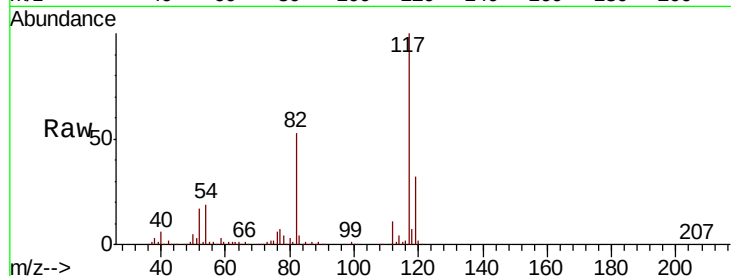
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.8	64.2
119	32.2	25.5	38.3

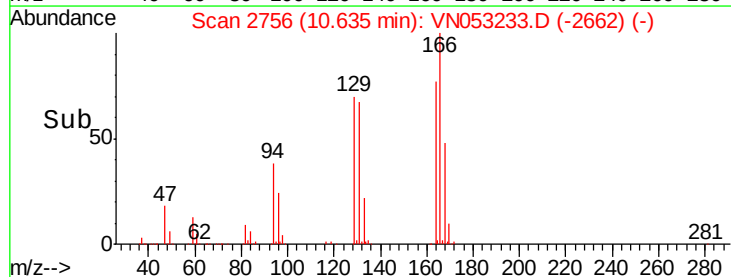
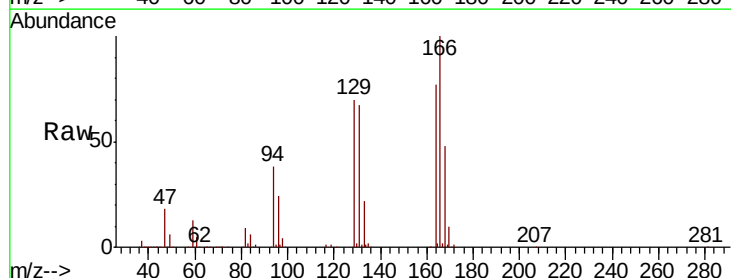
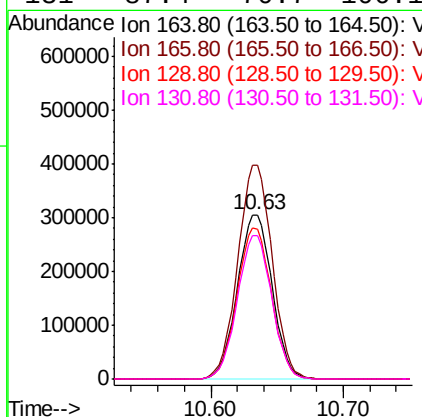
Manual Integrations
APPROVED

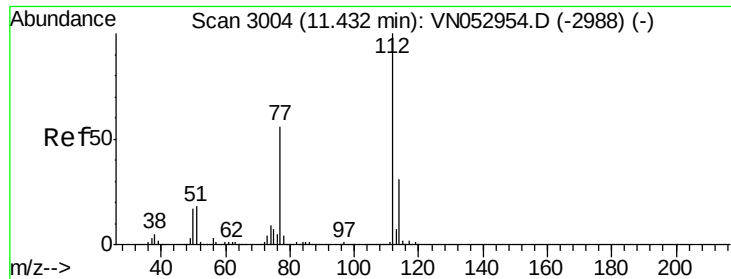
MMDadoda
1/2/2019 9:50:12 AM



#64
Tetrachloroethene
Concen: 43.164 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.2	102.9	154.3
129	91.5	73.7	110.5
131	87.4	70.7	106.1





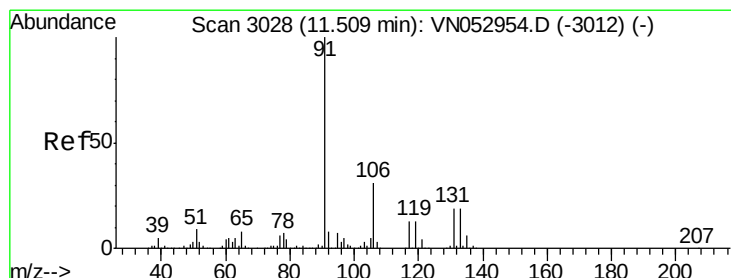
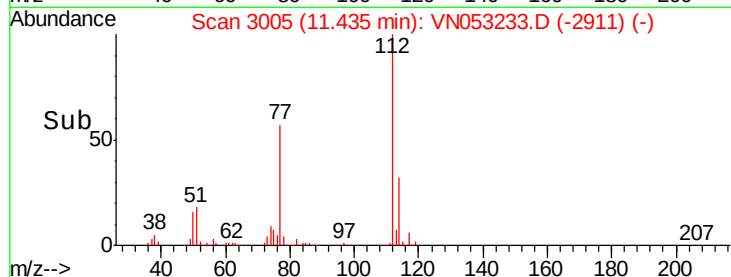
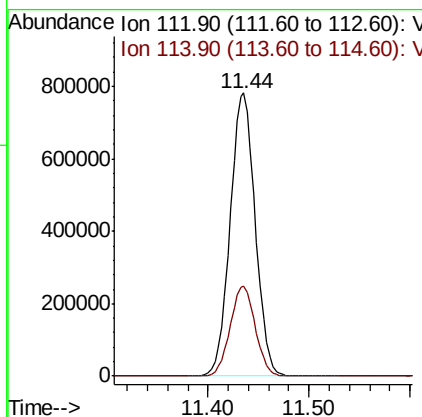
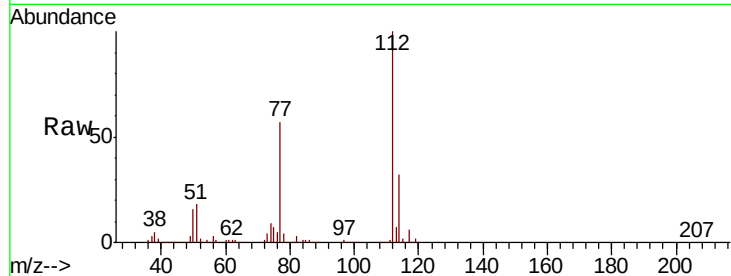
#65
Chlorobenzene
Concen: 51.421 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 1351677
Ion Ratio Lower Upper
112 100
114 31.8 25.5 38.3

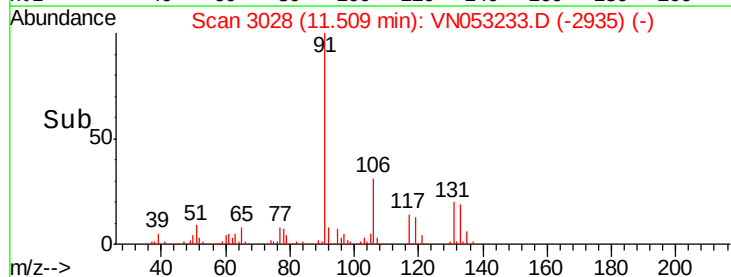
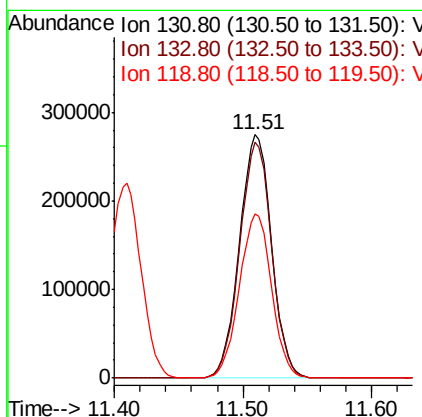
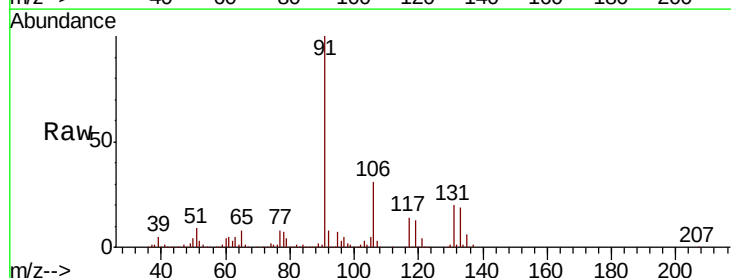
Manual Integrations
APPROVED

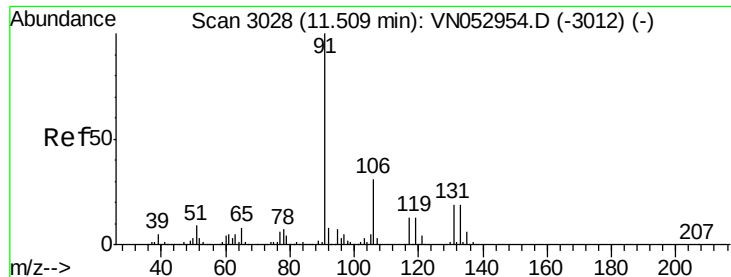
MMDadoda
1/2/2019 9:50:12 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 52.045 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion:131 Resp: 475745
Ion Ratio Lower Upper
131 100
133 96.4 47.6 142.9
119 67.7 33.3 99.8





#67

Ethyl Benzene

Concen: 51.587 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 2332036

Ion Ratio Lower Upper

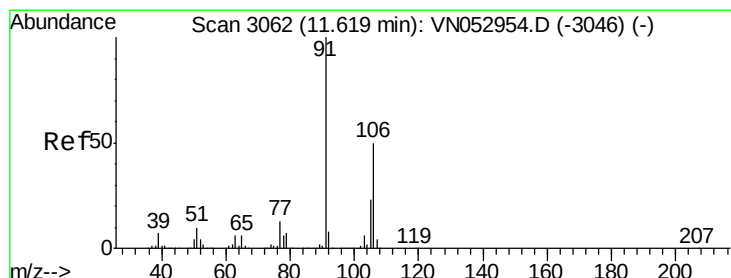
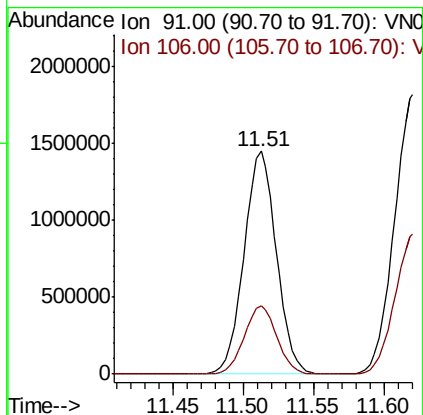
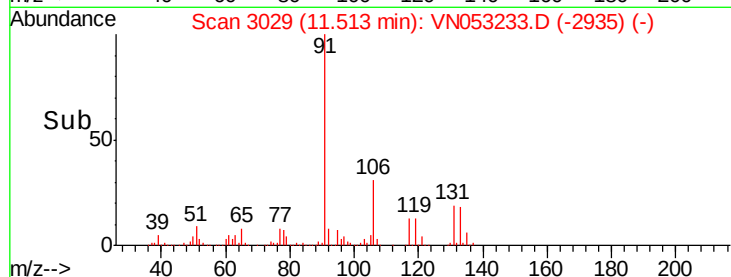
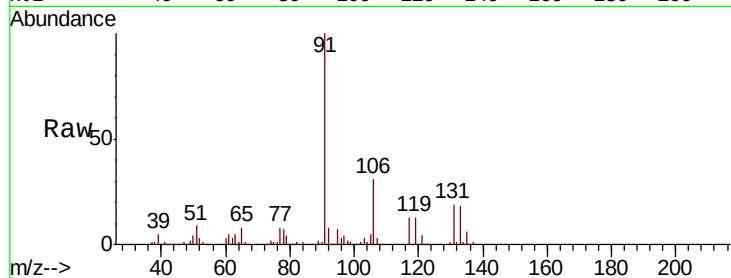
91 100

106 30.8 24.9 37.3

Manual Integrations
APPROVED

MMDadoda

1/2/2019 9:50:12 AM



#68

m/p-Xylenes

Concen: 101.615 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053233.D

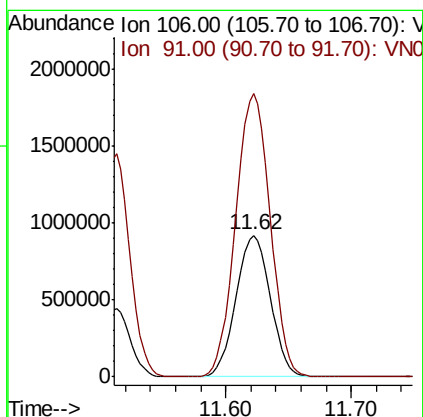
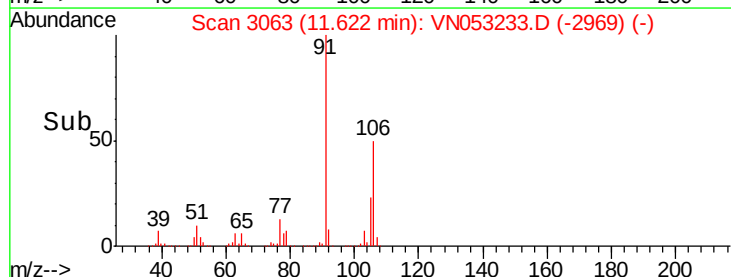
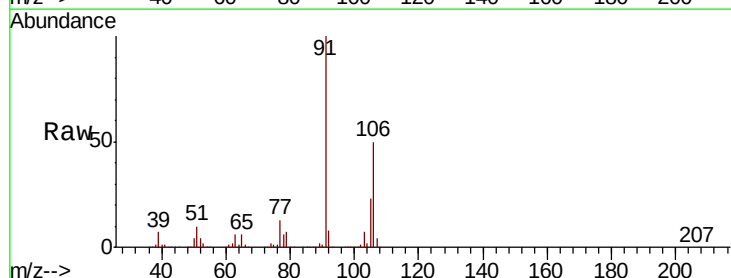
Acq: 28 Dec 2018 18:57

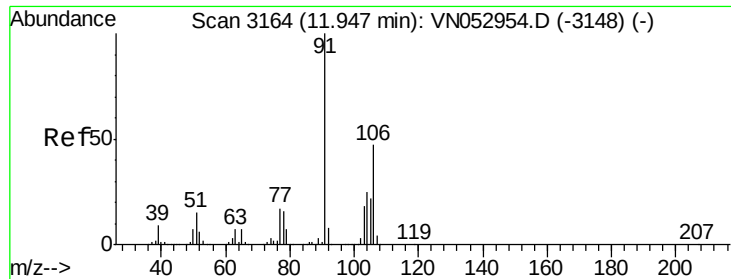
Tgt Ion: 106 Resp: 1746274

Ion Ratio Lower Upper

106 100

91 201.7 162.2 243.4





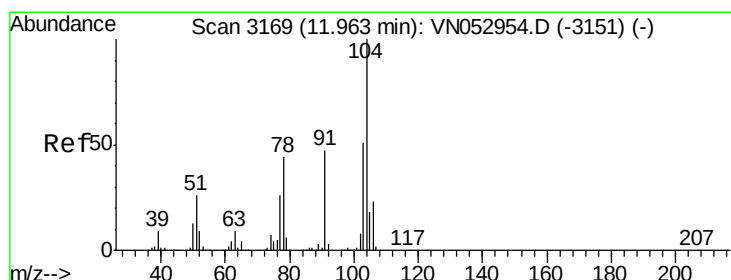
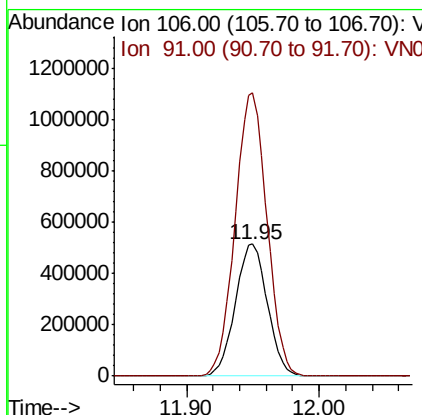
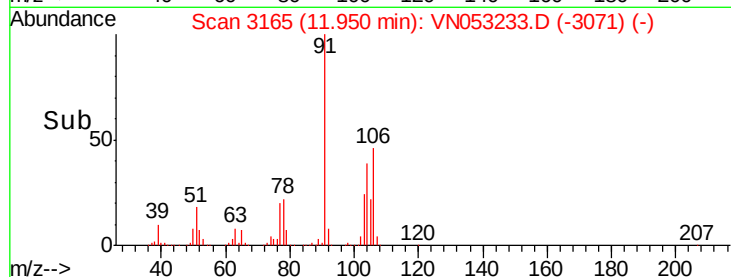
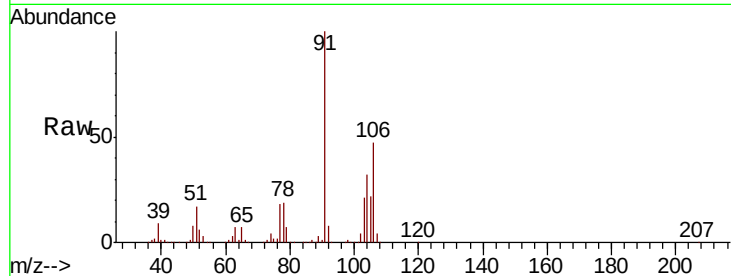
#69
o-Xylene
Concen: 52.404 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
864181	106	100		
	91	213.4	106.6	319.8

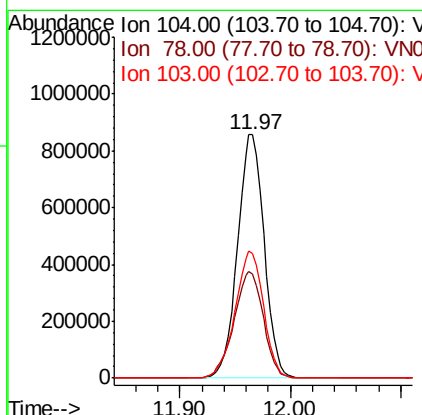
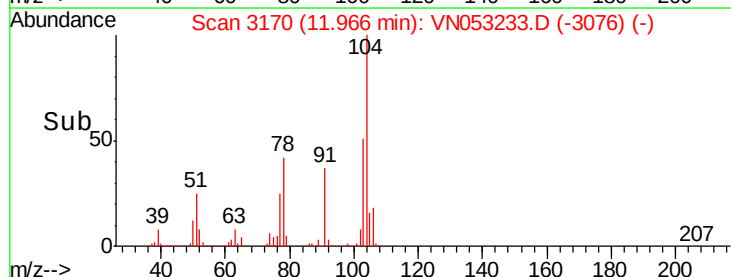
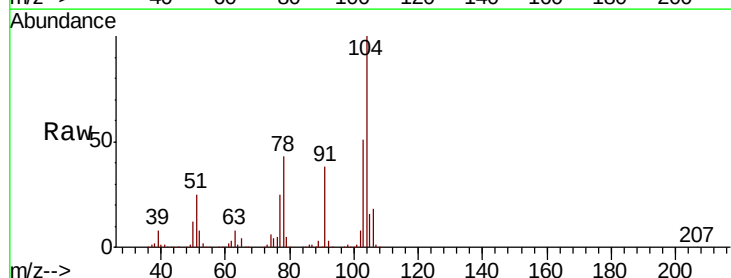
Manual Integrations
APPROVED

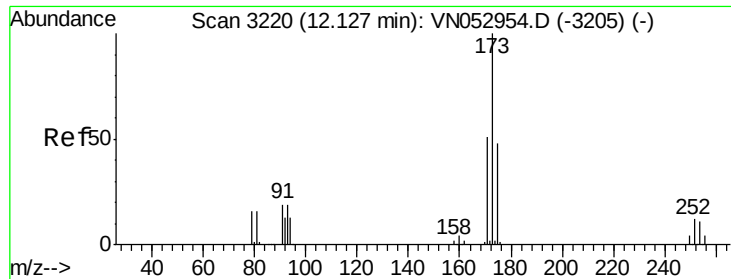
MMDadoda
1/2/2019 9:50:12 AM



#70
Styrene
Concen: 53.291 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ion	Ratio	Lower	Upper
1432982	104	100		
	78	48.1	38.9	58.3
	103	55.7	44.3	66.5





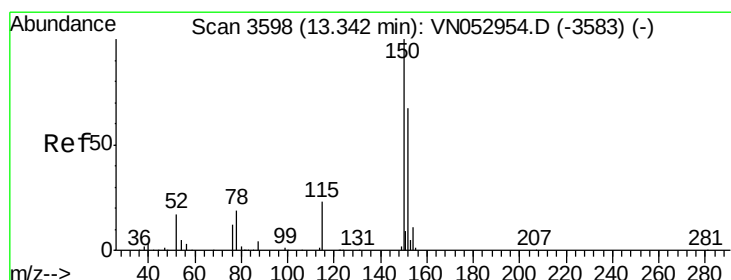
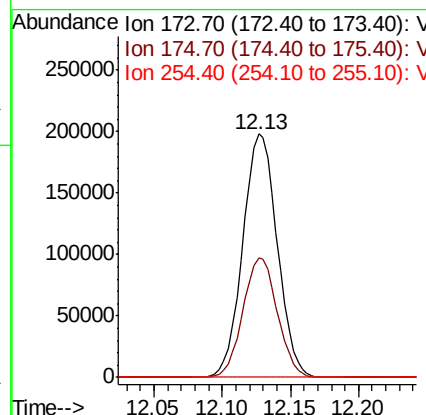
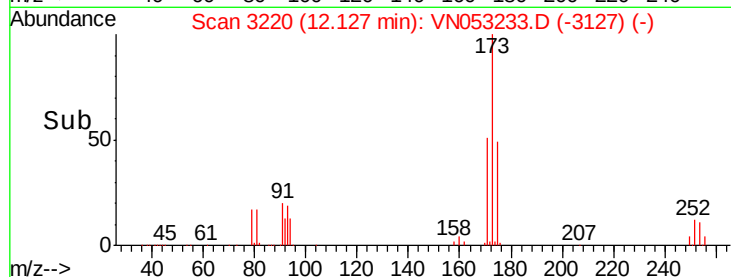
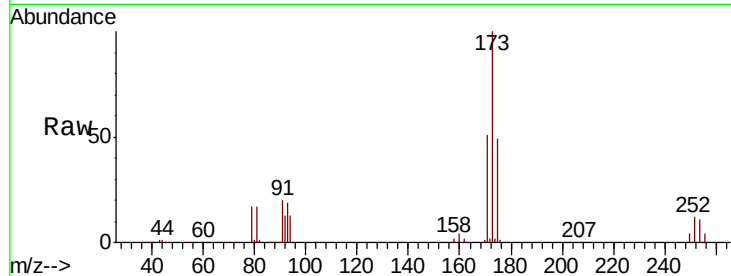
#71
Bromoform
Concen: 52.622 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.3	72.9
254	0.1	0.1	0.1#

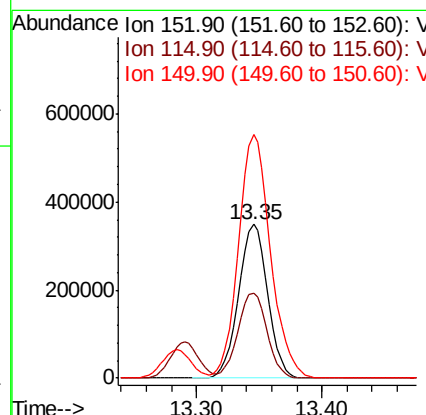
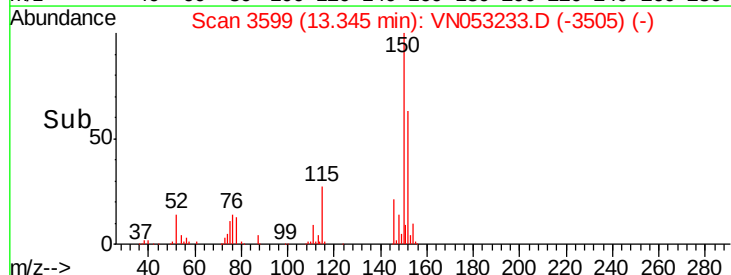
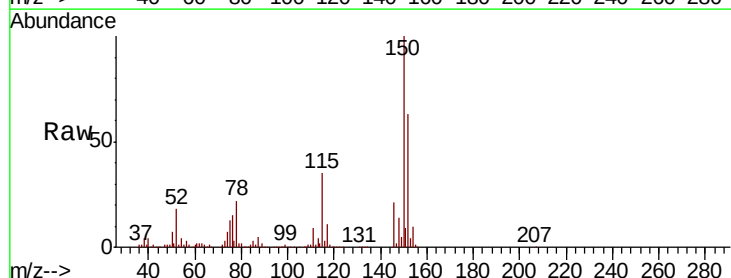
Manual Integrations
APPROVED

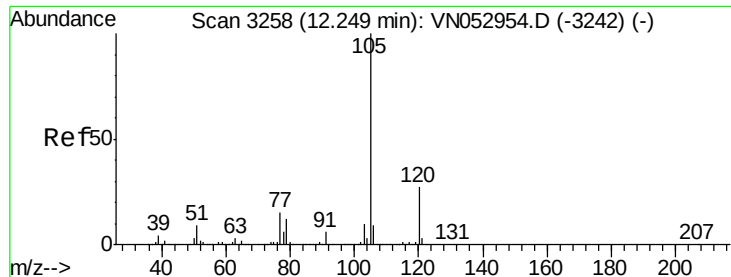
MMDadoda
1/2/2019 9:50:12 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	28.3	85.0
150	174.5	0.0	347.8





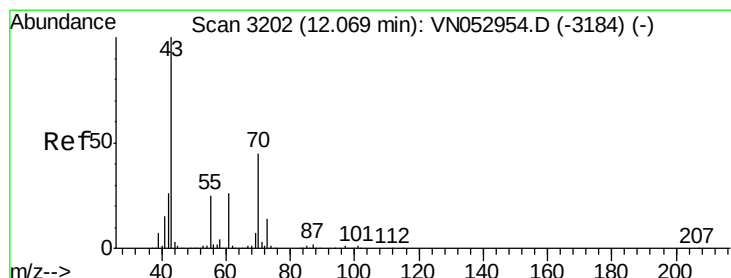
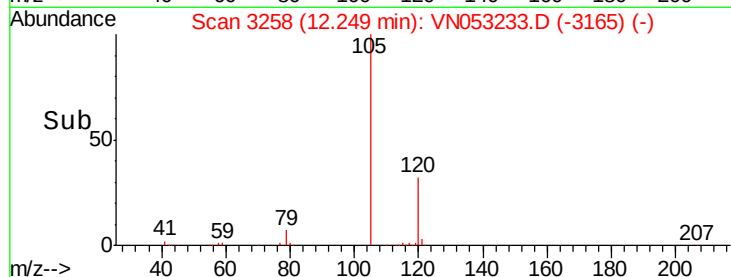
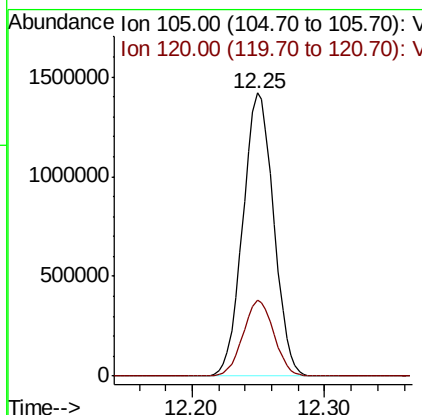
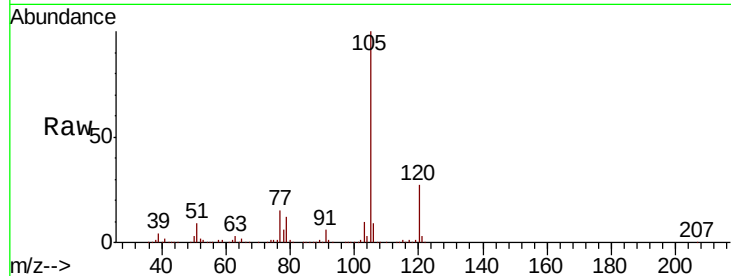
#73
Isopropylbenzene
Concen: 52.128 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:105 Resp: 2284859
Ion Ratio Lower Upper
105 100
120 26.8 13.3 39.9

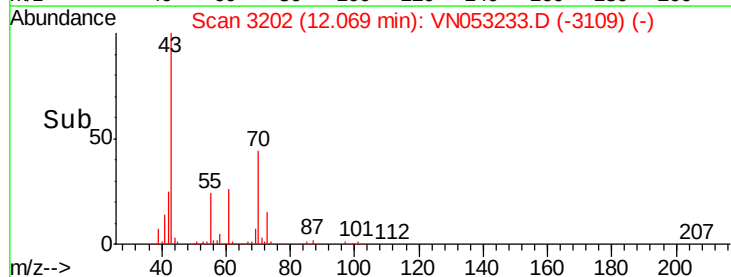
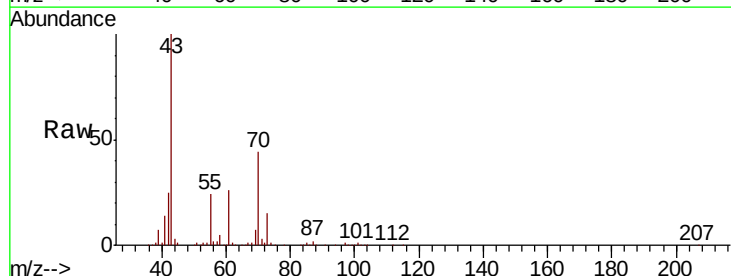
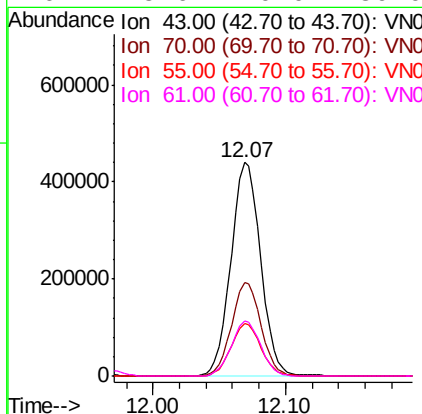
Manual Integrations
APPROVED

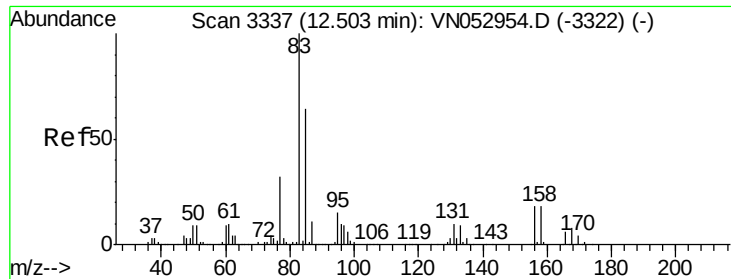
MMDadoda
1/2/2019 9:50:12 AM



#74
N-ethyl acetate
Concen: 56.006 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion: 43 Resp: 681550
Ion Ratio Lower Upper
43 100
70 43.7 34.2 51.4
55 24.9 20.3 30.5
61 25.6 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 61.484 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

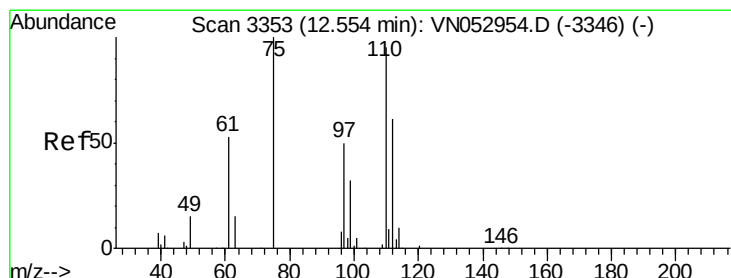
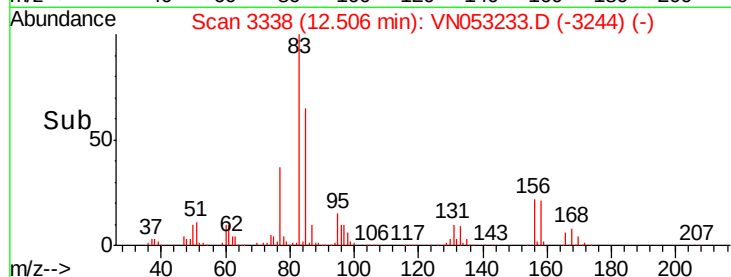
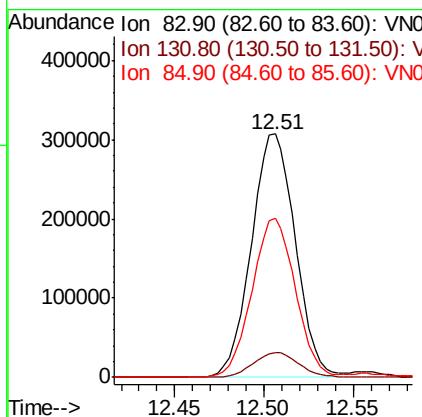
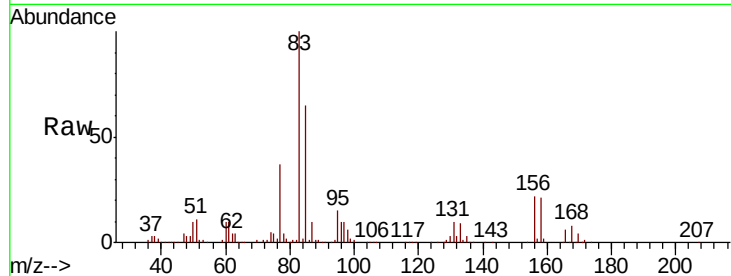
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	528710
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.2	15.6
85	64.6	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:50:12 AM



#76

1,2,3-Trichloropropane

Concen: 45.778 ug/l m

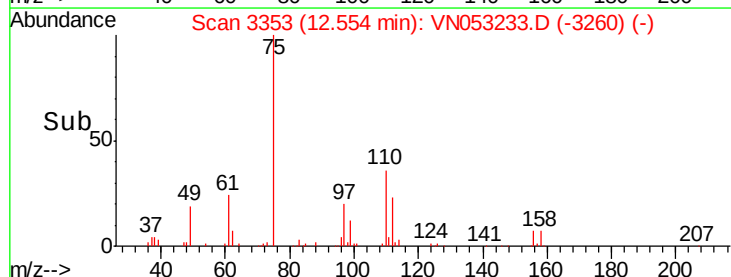
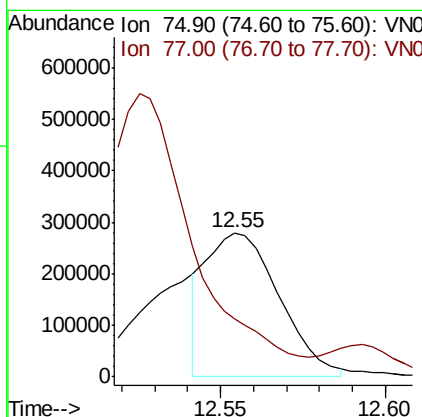
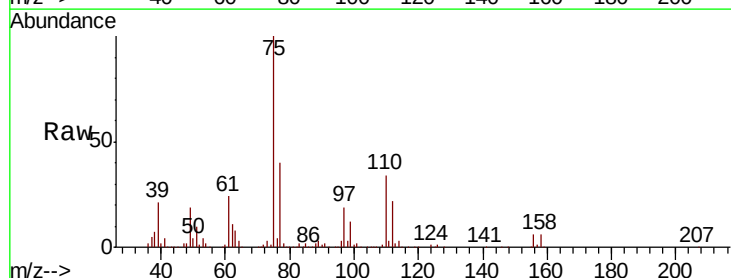
RT: 12.55 min Scan# 3353

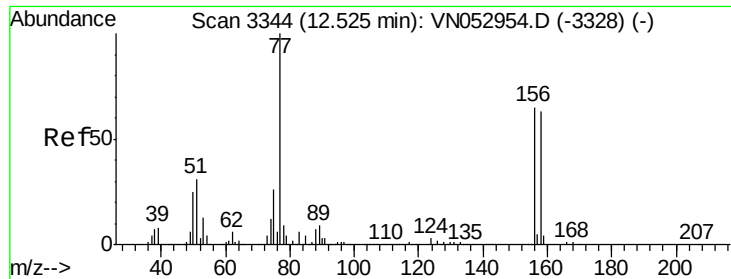
Delta R.T. -0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Tgt Ion:	75	Resp:	431717
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





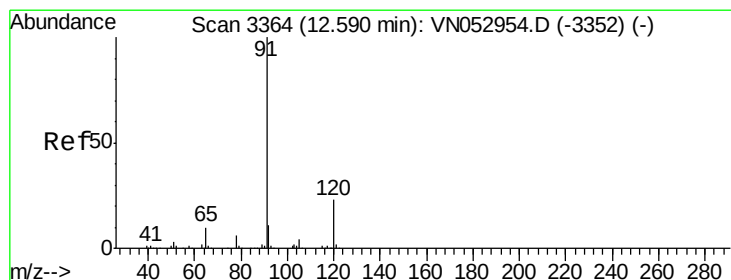
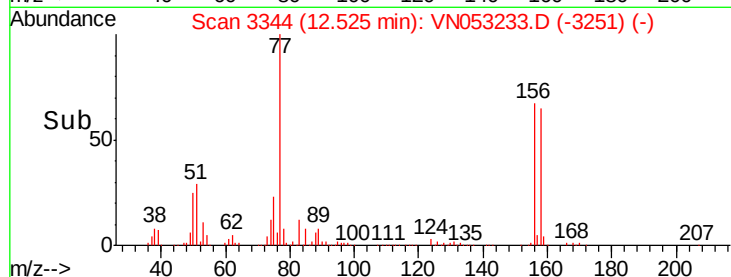
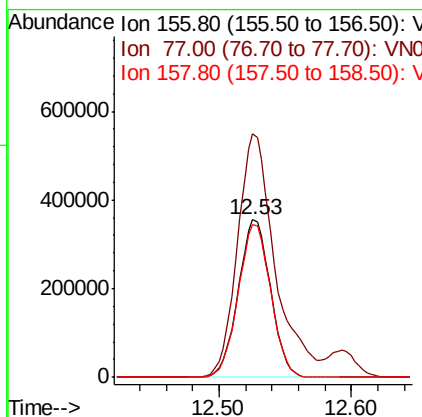
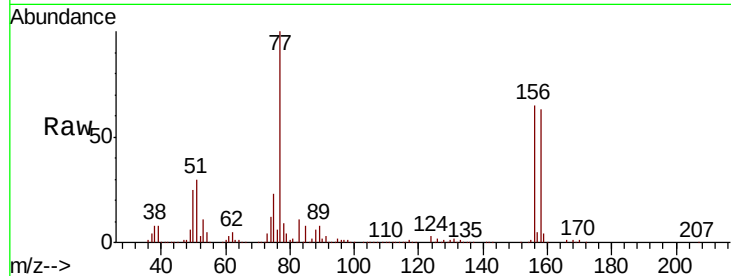
#77
Bromobenzene
Concen: 52.845 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	180.4	91.3	273.8
158	97.5	49.0	147.2

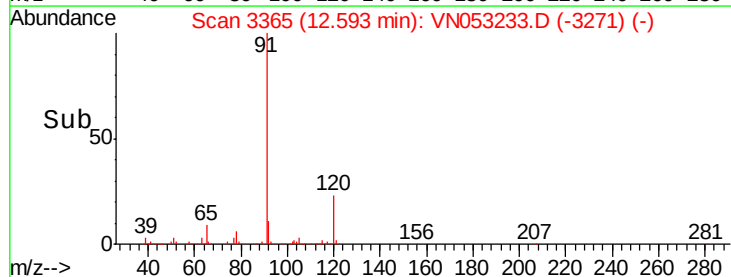
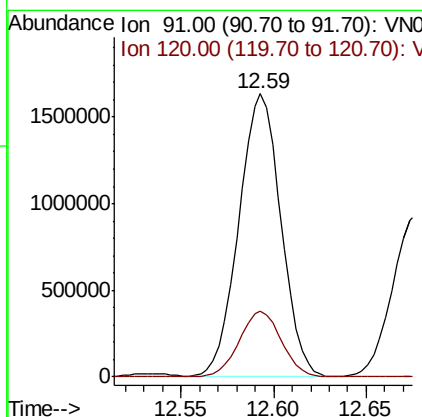
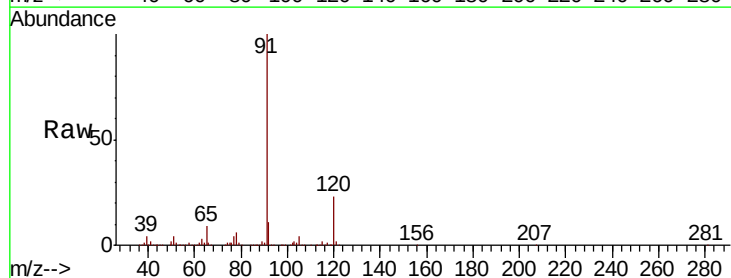
Manual Integrations
APPROVED

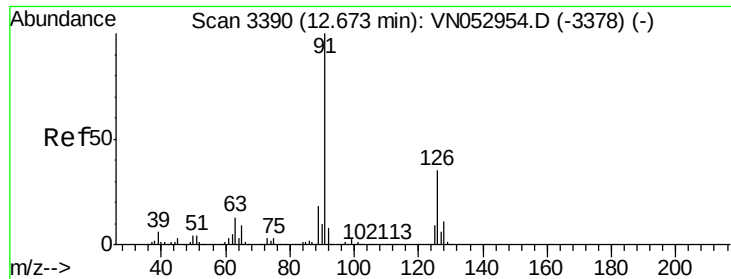
MMDadoda
1/2/2019 9:50:12 AM



#78
n-propylbenzene
Concen: 51.308 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.5





#79

2-Chlorotoluene

Concen: 49.730 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1538809

Ion Ratio Lower Upper

91 100

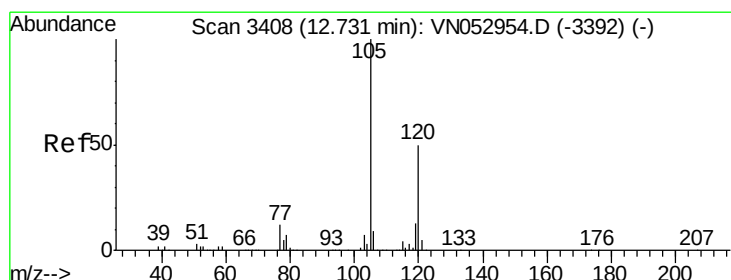
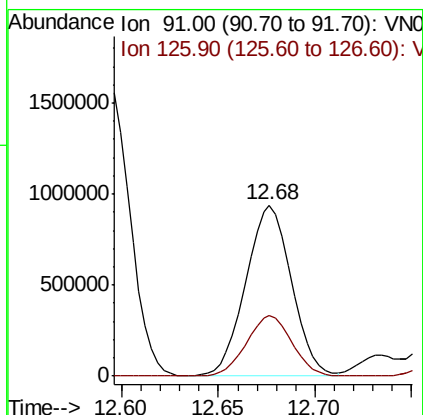
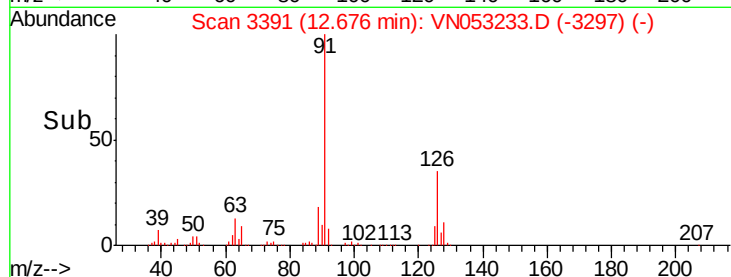
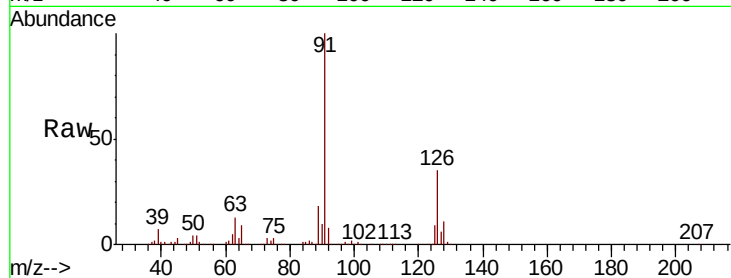
126 35.3 17.4 52.3

Manual Integrations

APPROVED

MMDadoda

1/2/2019 9:50:12 AM



#80

1,3,5-Trimethylbenzene

Concen: 50.527 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053233.D

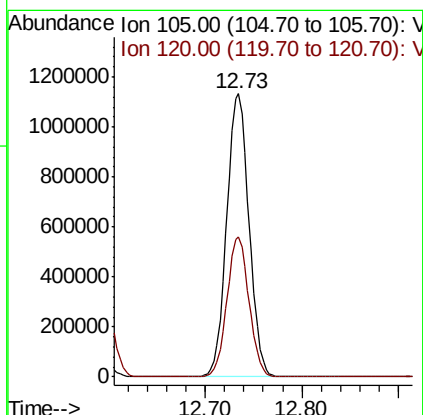
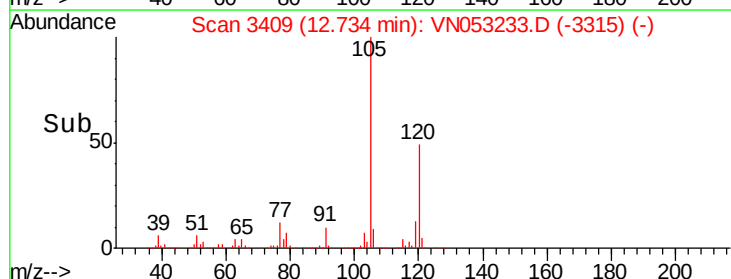
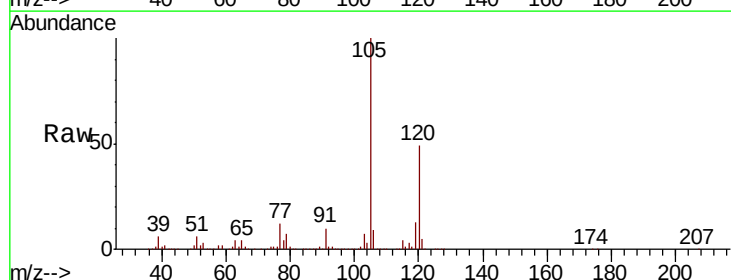
Acq: 28 Dec 2018 18:57

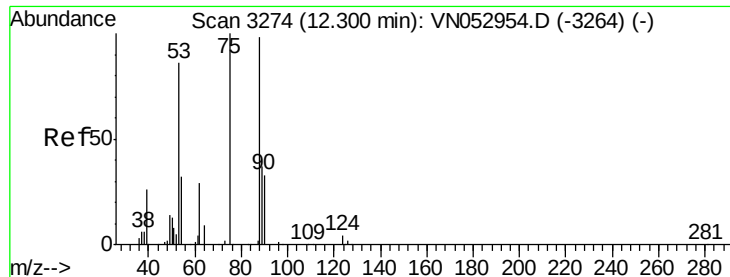
Tgt Ion: 105 Resp: 1805157

Ion Ratio Lower Upper

105 100

120 49.1 24.4 73.2





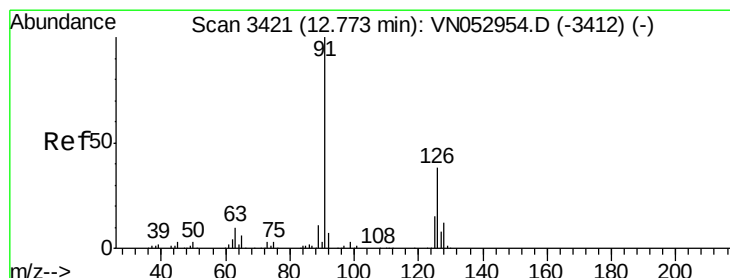
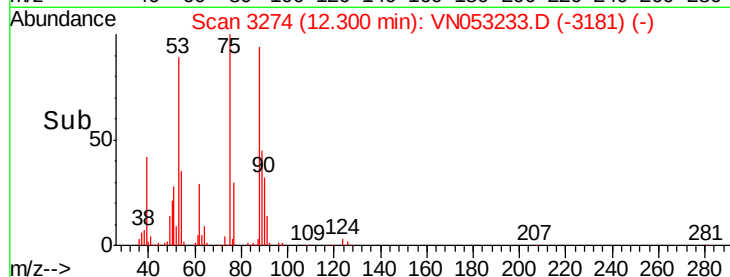
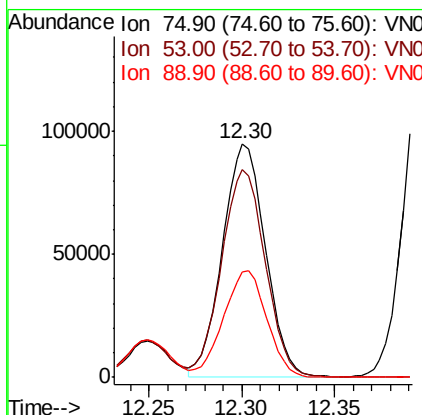
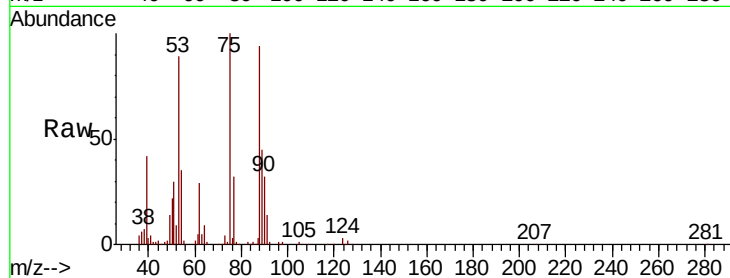
#81
trans-1,4-Dichloro-2-butene
Concen: 52.305 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.7	74.7	112.1
89	46.1	36.1	54.1

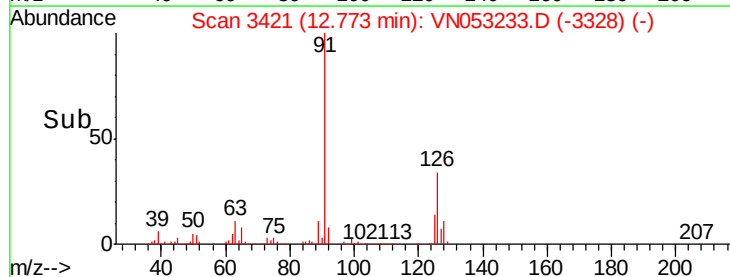
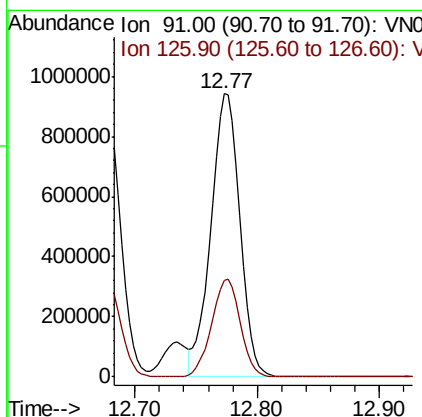
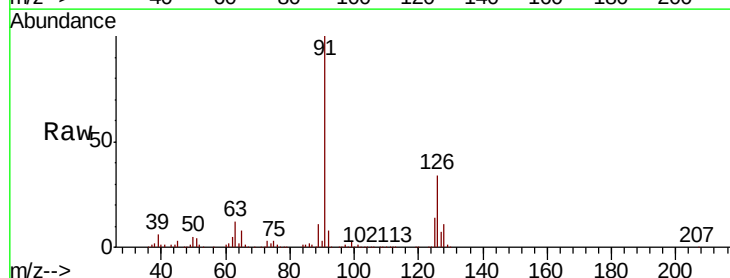
Manual Integrations
APPROVED

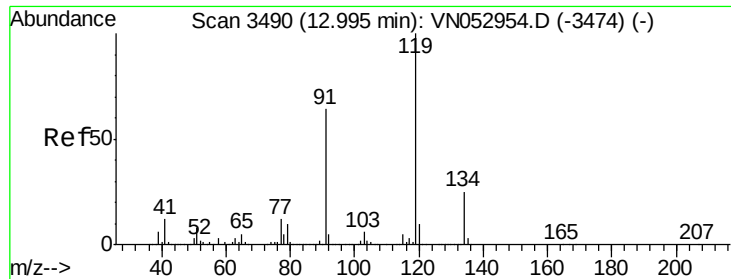
MMDadoda
1/2/2019 9:50:12 AM



#82
4-Chlorotoluene
Concen: 51.844 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.3	51.7





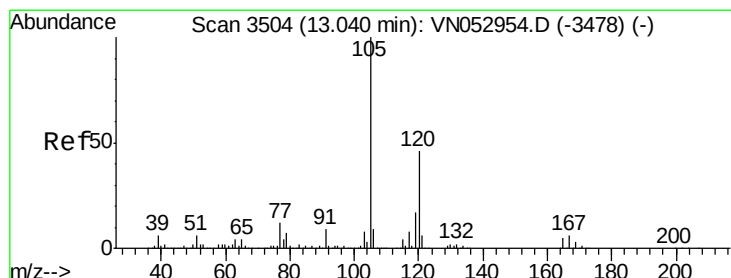
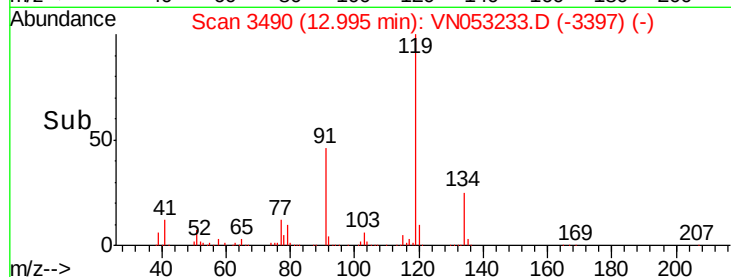
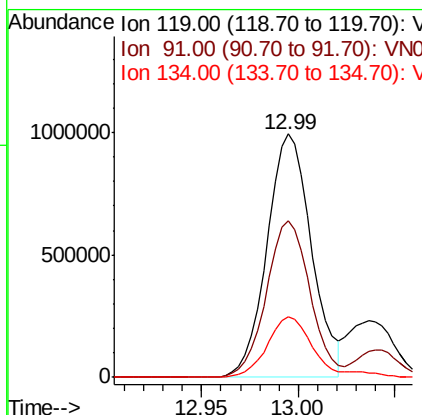
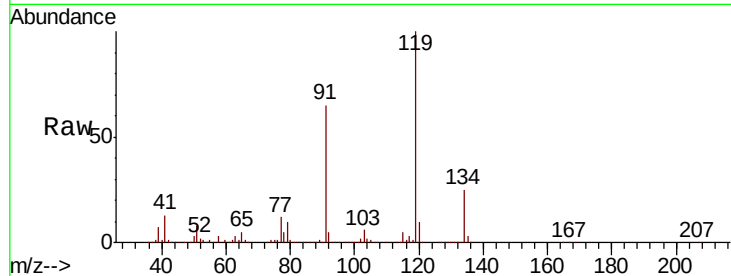
#83
 tert-Butylbenzene
 Concen: 50.266 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.4	31.9	95.5
134	26.1	12.8	38.4

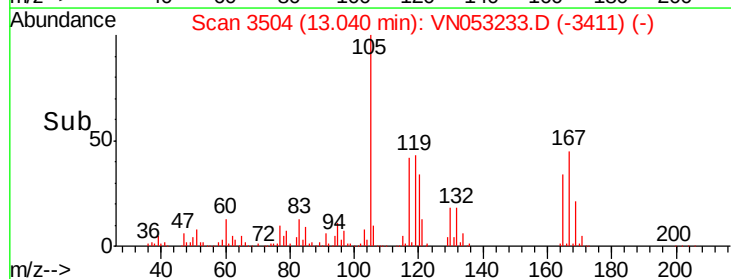
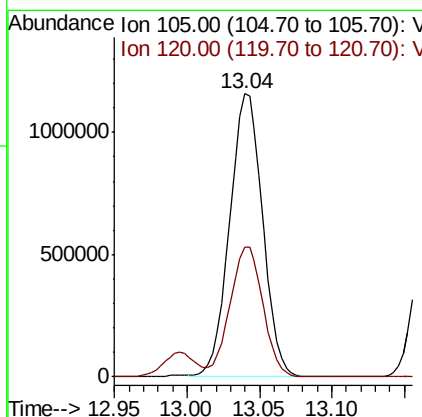
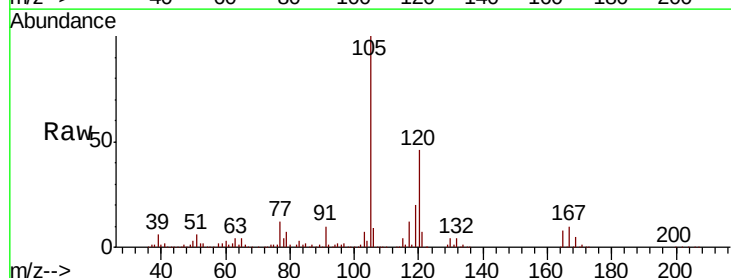
Manual Integrations
 APPROVED

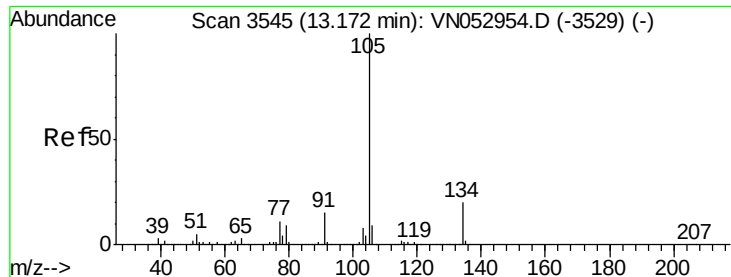
MMDadoda
 1/2/2019 9:50:12 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 50.771 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.9	68.8





#85

sec-Butylbenzene

Concen: 49.213 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 2103276

Ion Ratio Lower Upper

105 100

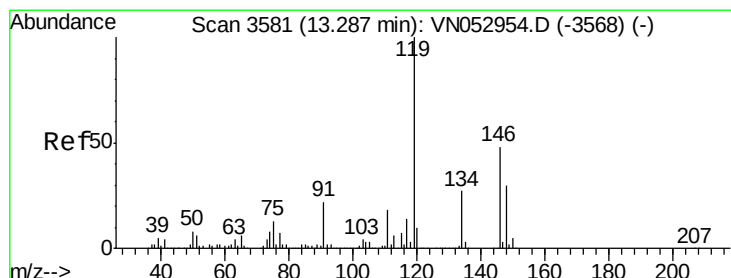
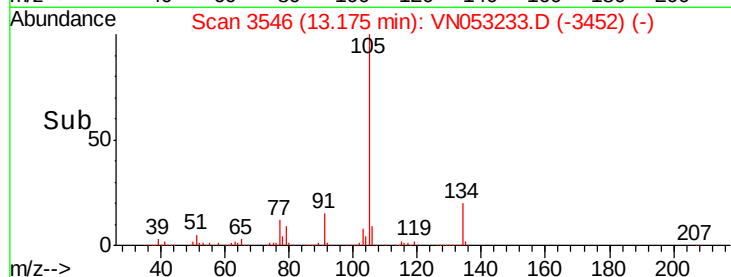
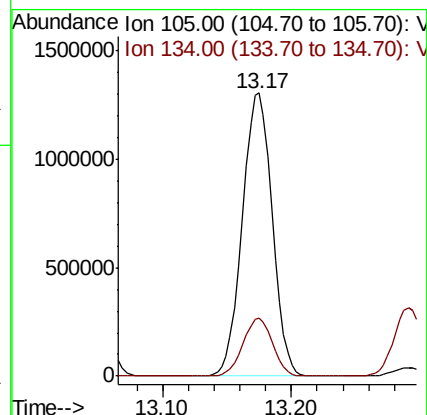
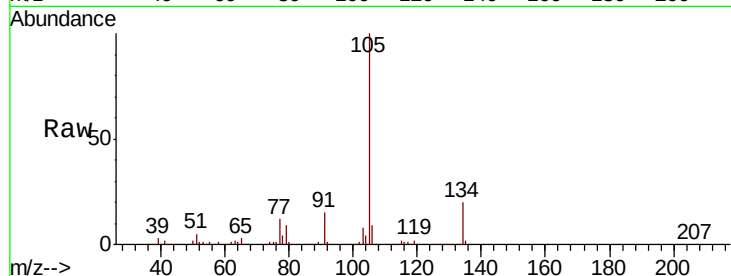
134 20.3 10.1 30.3

Manual Integrations

APPROVED

MMDadoda

1/2/2019 9:50:12 AM



#86

p-Isopropyltoluene

Concen: 48.972 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

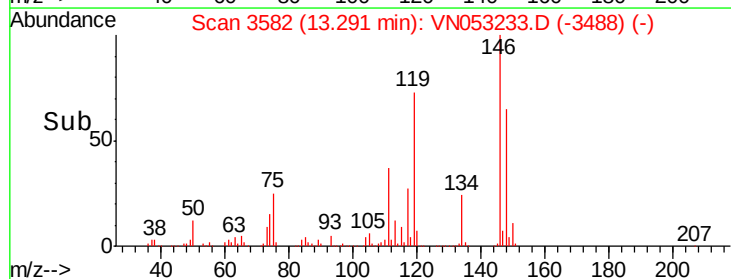
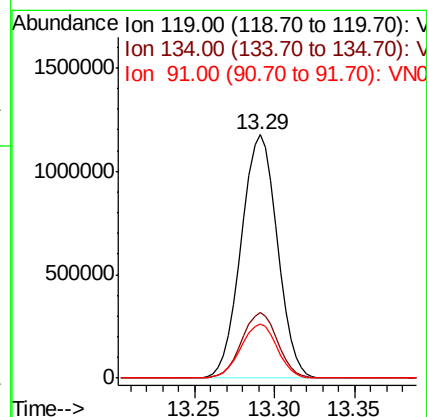
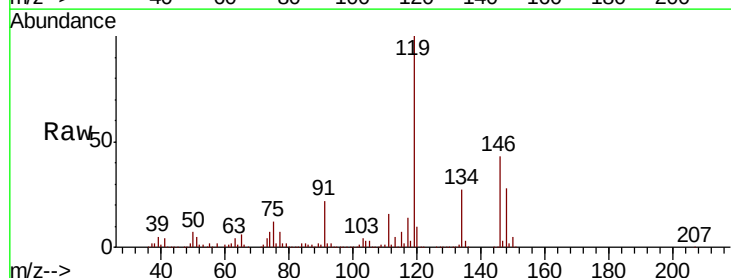
Tgt Ion:119 Resp: 1808493

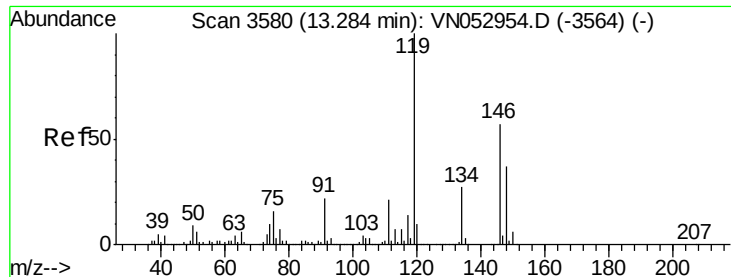
Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.2

91 22.2 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 50.276 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:146 Resp: 1013839

Ion Ratio Lower Upper

146 100

111 37.5 19.1 57.1

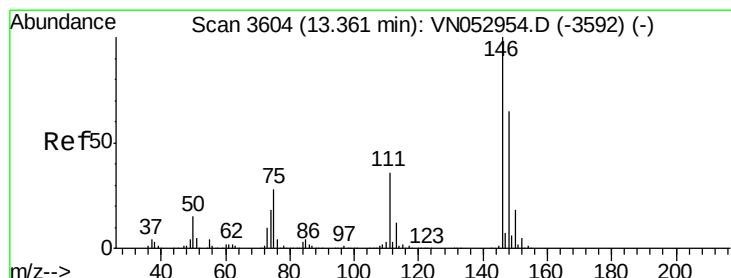
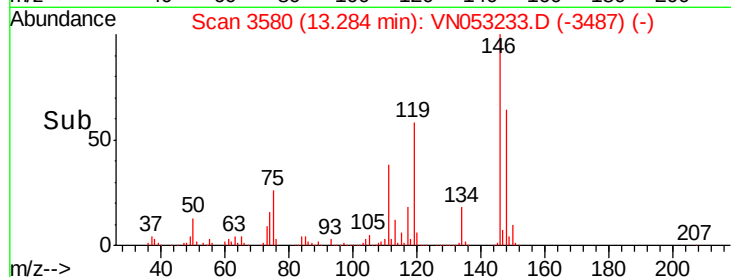
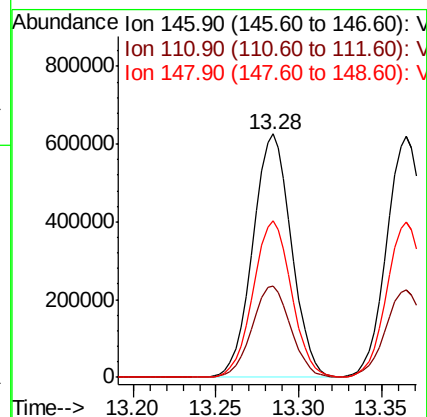
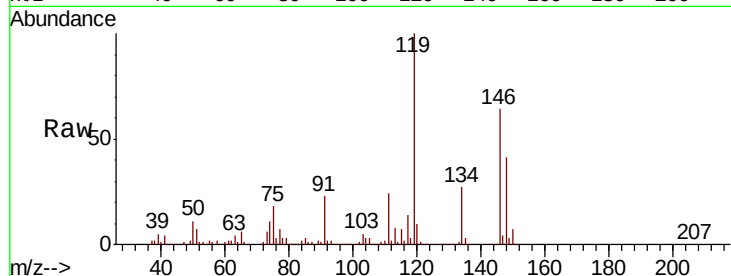
148 64.1 32.0 96.0

Manual Integrations

APPROVED

MMDadoda

1/2/2019 9:50:12 AM



#88

1,4-Dichlorobenzene

Concen: 48.990 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

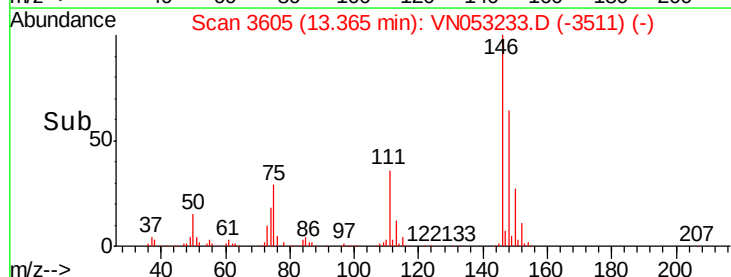
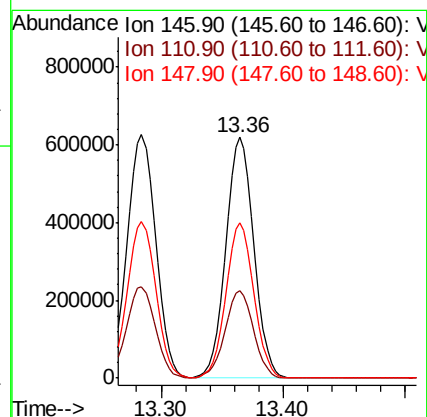
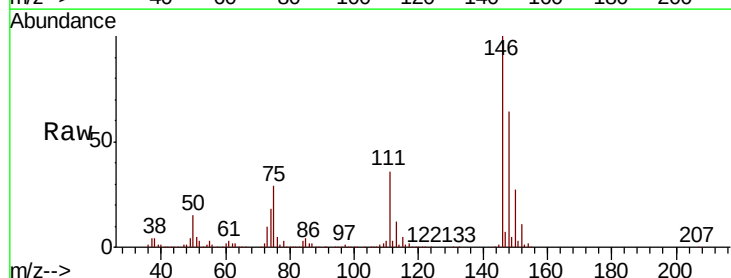
Tgt Ion:146 Resp: 1000438

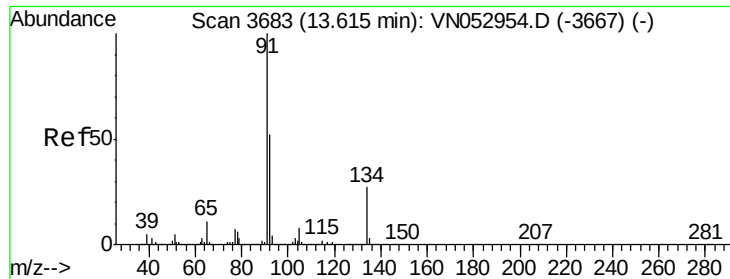
Ion Ratio Lower Upper

146 100

111 36.9 18.6 55.8

148 64.1 32.1 96.5





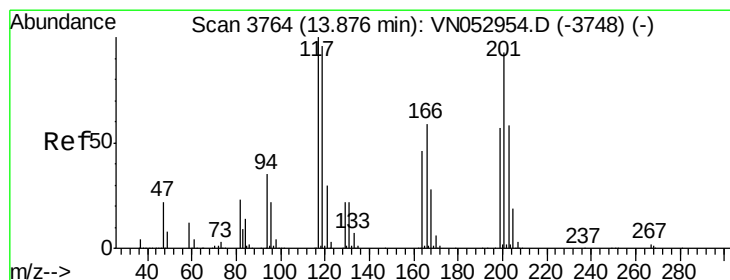
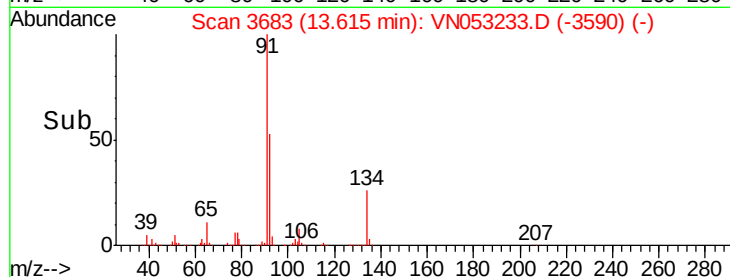
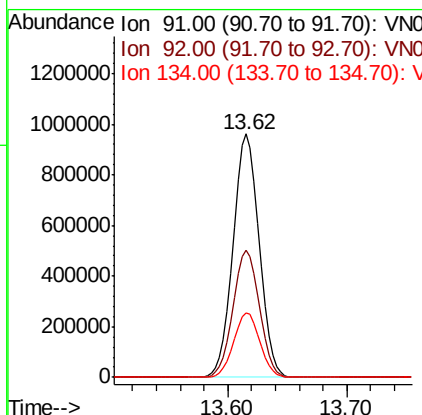
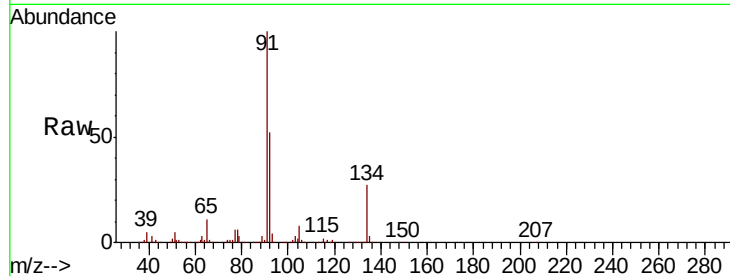
#89
n-Butylbenzene
Concen: 45.895 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1458114
Ion Ratio Lower Upper
91 100
92 52.7 26.3 78.9
134 26.7 13.3 39.8

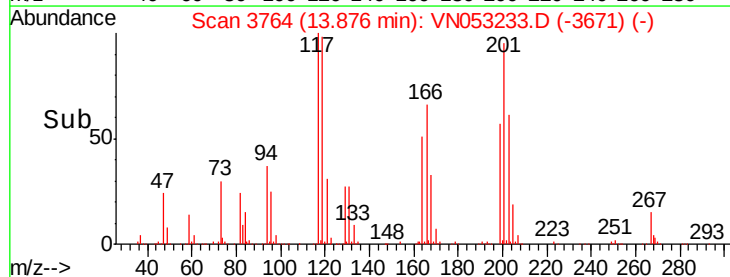
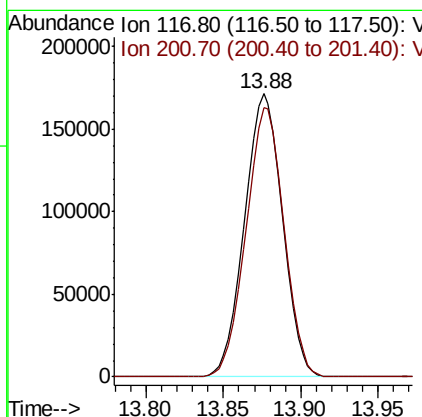
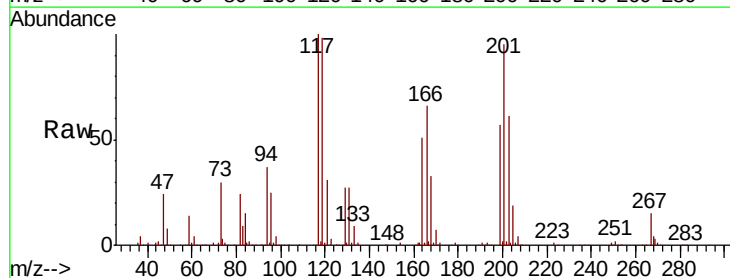
Manual Integrations
APPROVED

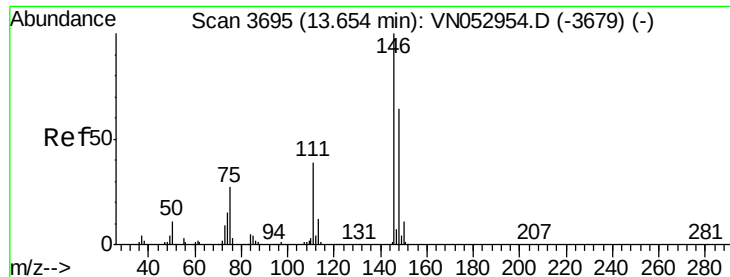
MMDadoda
1/2/2019 9:50:12 AM



#90
Hexachloroethane
Concen: 51.689 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN053233.D
Acq: 28 Dec 2018 18:57

Tgt Ion: 117 Resp: 292924
Ion Ratio Lower Upper
117 100
201 94.9 45.7 137.1





#91

1,2-Dichlorobenzene

Concen: 49.992 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

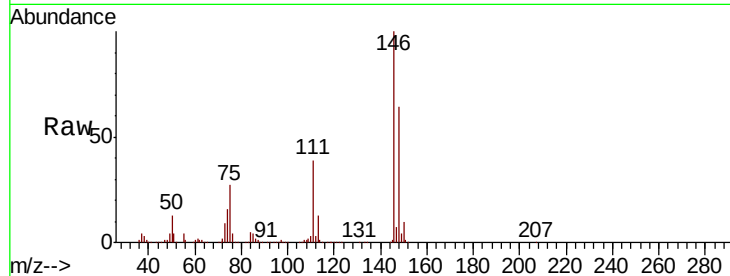
ClientSampleId :

VSTDCCC050EC

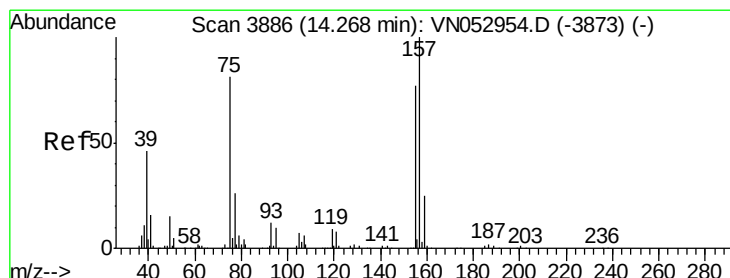
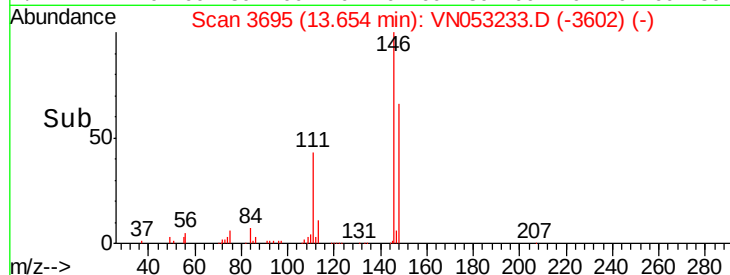
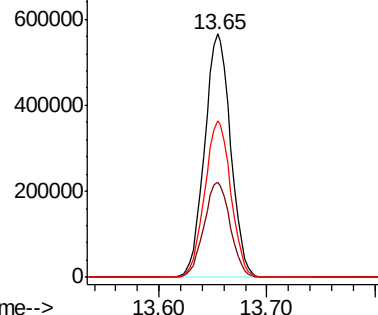
Tot Ion:	146	Resp:	948788
Ion Ratio		Lower	Upper
146	100		
111	39.4	19.7	59.0
148	64.8	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:50:12 AM



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 49.102 ug/l

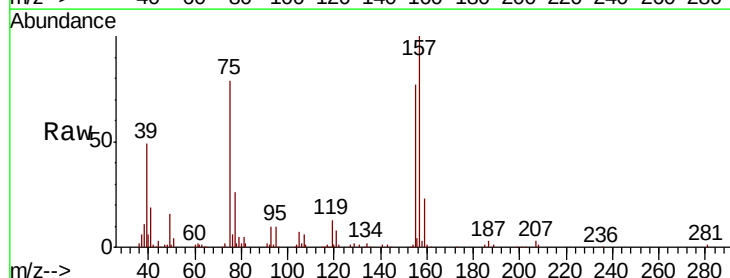
RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

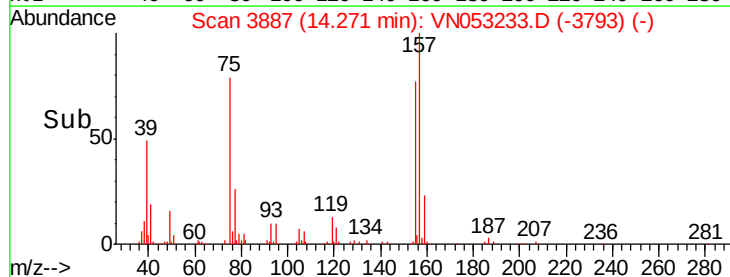
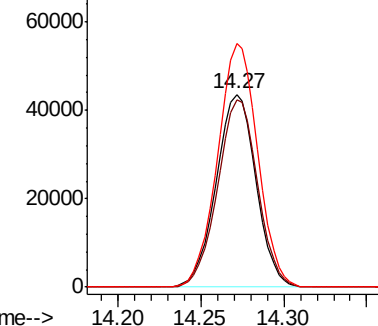
Lab File: VN053233.D

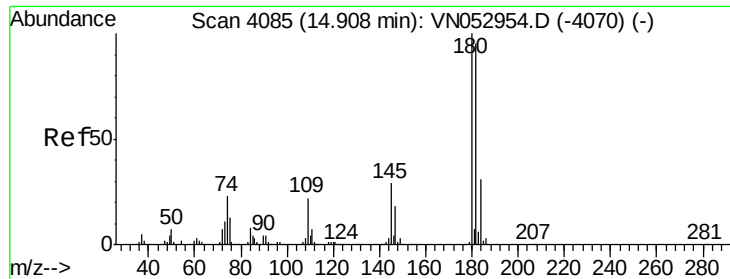
Acq: 28 Dec 2018 18:57

Tgt Ion:	75	Resp:	73007
Ion Ratio		Lower	Upper
75	100		
155	97.2	48.2	144.6
157	126.7	61.2	183.5



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





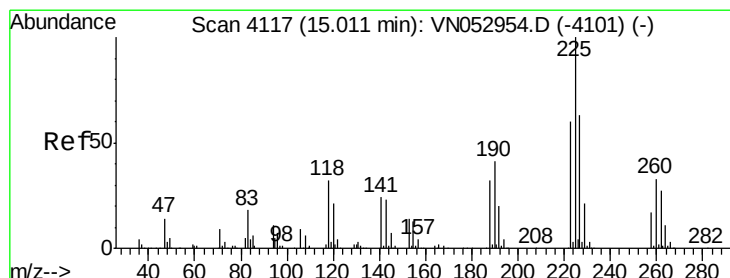
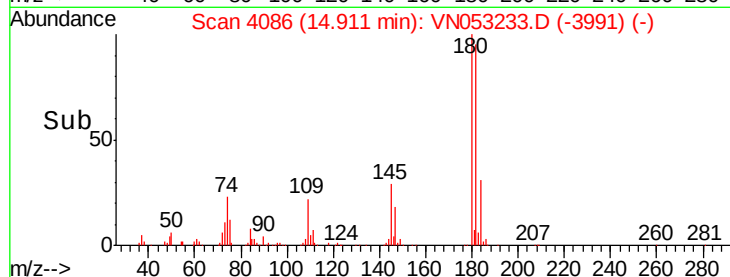
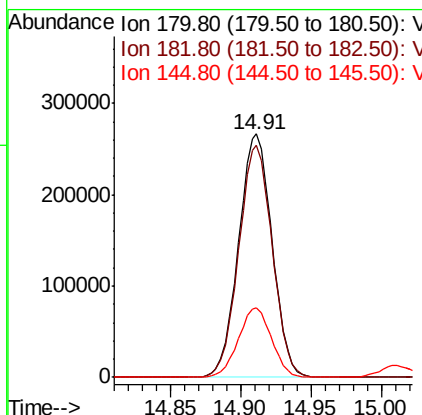
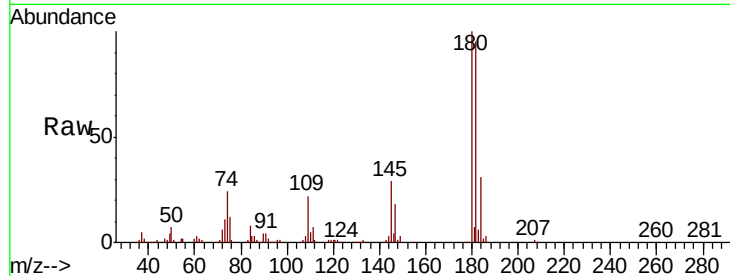
#93
 1,2,4-Trichlorobenzene
 Concen: 44.109 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	442805		
182	95.3	47.8	143.3	
145	28.4	14.2	42.6	

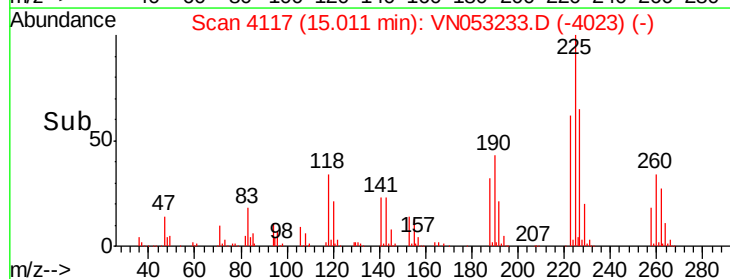
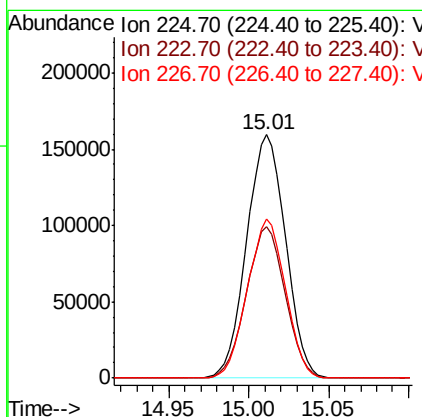
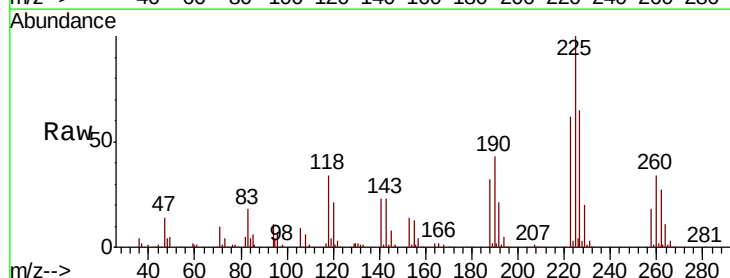
Manual Integrations
 APPROVED

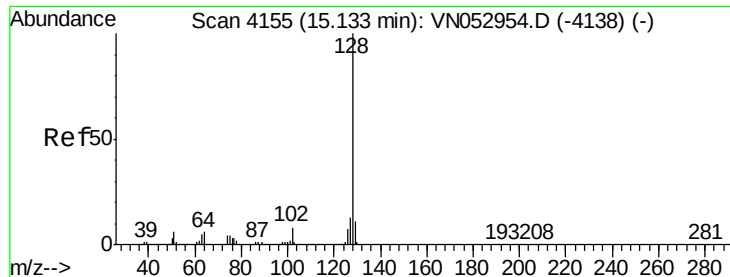
MMDadoda
 1/2/2019 9:50:12 AM



#94
 Hexachlorobutadiene
 Concen: 51.036 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053233.D
 Acq: 28 Dec 2018 18:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	265397		
223	61.9	31.5	94.5	
227	63.8	31.9	95.7	





#95

Naphthalene

Concen: 44.946 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Instrument :

MSVOA_N

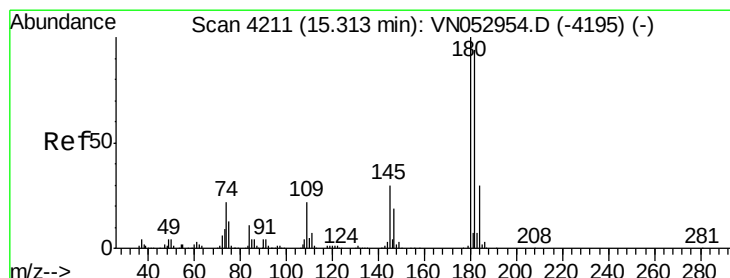
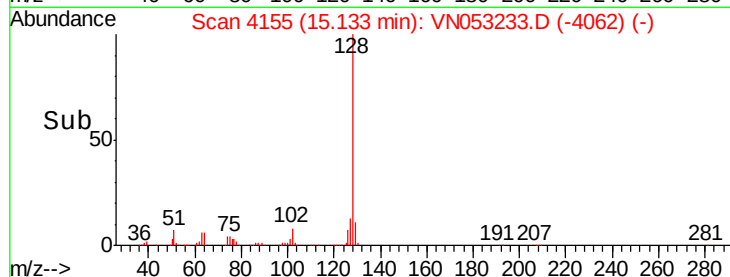
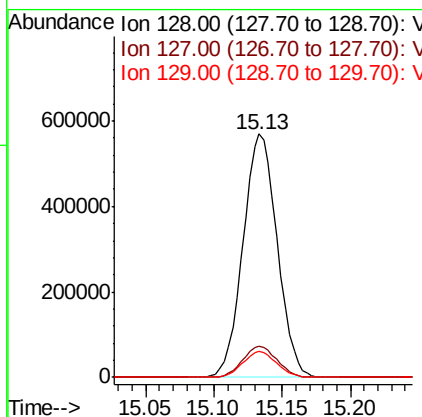
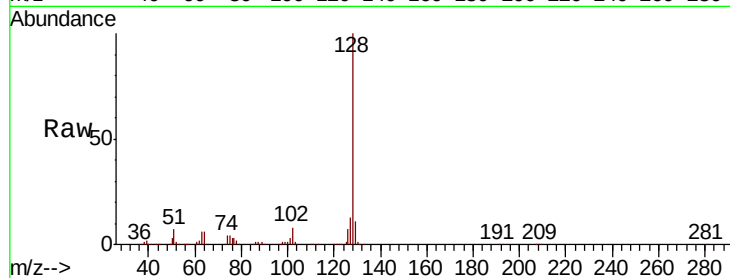
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	987365
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.2	15.4
129	10.6	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
1/2/2019 9:50:12 AM



#96

1,2,3-Trichlorobenzene

Concen: 44.388 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053233.D

Acq: 28 Dec 2018 18:57

Tgt Ion:	180	Resp:	401393
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.9	143.7
145	29.7	15.0	45.0

