

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050918.D
 Acq On : 28 Aug 2018 16:59
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:30 AM

Quant Time: Aug 29 04:19:45 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	610868	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	870308	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	800931	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	402859	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	363770	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
35) Dibromofluoromethane	7.59	113	348866	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	
50) Toluene-d8	10.09	98	1294210	50.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.00%	
62) 4-Bromofluorobenzene	12.40	95	432744	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	397751	48.65	ug/l	98
3) Chloromethane	2.06	50	452340	44.86	ug/l	100
4) Vinyl Chloride	2.18	62	448003	46.90	ug/l	100
5) Bromomethane	2.55	94	252148	46.37	ug/l	98
6) Chloroethane	2.70	64	254159	46.05	ug/l	100
7) Trichlorofluoromethane	3.01	101	581711	47.56	ug/l	98
8) Diethyl Ether	3.41	74	214989	51.69	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	365201	47.79	ug/l	100
10) Methyl Iodide	3.95	142	334650	49.92	ug/l	99
11) Tert butyl alcohol	4.80	59	150737	321.89	ug/l	100
12) 1,1-Dichloroethene	3.73	96	337018	49.12	ug/l	99
13) Acrolein	3.61	56	71282	259.91	ug/l	96
14) Allyl chloride	4.32	41	535540	50.09	ug/l	98
15) Acrylonitrile	4.99	53	689492	289.72	ug/l	100
16) Acetone	3.82	43	498840	287.51	ug/l	100
17) Carbon Disulfide	4.05	76	991611	43.11	ug/l	100
18) Methyl Acetate	4.33	43	417958	60.19	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	964959	55.91	ug/l	99
20) Methylene Chloride	4.55	84	387711	46.78	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	355664	47.93	ug/l	100
22) Diisopropyl ether	5.96	45	1130547	53.06	ug/l	98
23) Vinyl Acetate	5.90	43	3727561	271.67	ug/l	100
24) 1,1-Dichloroethane	5.85	63	662202	48.41	ug/l	100
25) 2-Butanone	6.84	43	791297	267.00	ug/l	100
26) 2,2-Dichloropropane	6.83	77	520341	47.34	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	407403	50.92	ug/l	98
28) Bromochloromethane	7.20	49	296614	51.03	ug/l	99
29) Tetrahydrofuran	7.22	42	518365	305.07	ug/l	98
30) Chloroform	7.37	83	661322	48.82	ug/l	100
31) Cyclohexane	7.66	56	583095	46.93	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	564323	48.51	ug/l	99
36) 1,1-Dichloropropene	7.79	75	505629	49.23	ug/l	99
37) Ethyl Acetate	6.93	43	343791	58.28	ug/l	100
38) Carbon Tetrachloride	7.77	117	502529	48.41	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050918.D
 Acq On : 28 Aug 2018 16:59
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:30 AM

Quant Time: Aug 29 04:19:45 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	558839	50.30	ug/l	98
40) Benzene	8.04	78	1543521	49.84	ug/l	100
41) Methacrylonitrile	7.17	41	197468	61.85	ug/l	94
42) 1,2-Dichloroethane	8.13	62	469509	50.71	ug/l	100
43) Isopropyl Acetate	8.17	43	585518	57.72	ug/l #	89
44) Trichloroethene	8.84	130	404376	49.51	ug/l	99
45) 1,2-Dichloropropane	9.12	63	406382	49.93	ug/l	99
46) Dibromomethane	9.21	93	246723	51.59	ug/l	99
47) Bromodichloromethane	9.41	83	510713	50.99	ug/l	98
48) Methyl methacrylate	9.20	41	303580	58.73	ug/l	99
49) 1,4-Dioxane	9.20	88	88302	1253.02	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	1737242	287.00	ug/l	99
52) Toluene	10.16	92	951492	51.86	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	519839	52.14	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	594979	52.11	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	355684	52.24	ug/l	99
56) Ethyl methacrylate	10.43	69	461192	51.97	ug/l	99
57) 1,3-Dichloropropane	10.71	76	600970	53.47	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	976920	252.62	ug/l	99
59) 2-Hexanone	10.75	43	1170199	290.40	ug/l	99
60) Dibromochloromethane	10.90	129	401486	52.66	ug/l	99
61) 1,2-Dibromoethane	11.01	107	352037	53.47	ug/l	98
64) Tetrachloroethene	10.63	164	363998	47.85	ug/l	99
65) Chlorobenzene	11.44	112	1036937	49.53	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	389625	50.87	ug/l	100
67) Ethyl Benzene	11.51	91	1770812	52.03	ug/l	100
68) m/p-Xylenes	11.62	106	1359537	105.24	ug/l	99
69) o-Xylene	11.95	106	656479	52.86	ug/l	100
70) Styrene	11.96	104	1048863	47.97	ug/l	99
71) Bromoform	12.13	173	292848	55.60	ug/l #	99
73) Isopropylbenzene	12.25	105	1738254	52.11	ug/l	100
74) N-amyl acetate	12.07	43	485288	57.90	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.51	83	465610	58.83	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	374033m	53.01	ug/l	
77) Bromobenzene	12.53	156	452819	49.95	ug/l	99
78) n-propylbenzene	12.59	91	1968232	52.82	ug/l	100
79) 2-Chlorotoluene	12.68	91	1175501	50.64	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1431151	53.17	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	120850	57.90	ug/l	99
82) 4-Chlorotoluene	12.77	91	1182799	51.62	ug/l	100
83) tert-Butylbenzene	12.99	119	1251490	53.69	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	1446339	53.42	ug/l	100
85) sec-Butylbenzene	13.17	105	1619768	53.03	ug/l	100
86) p-Isopropyltoluene	13.29	119	1433361	55.07	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	778890	50.63	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	751455	49.63	ug/l	99
89) n-Butylbenzene	13.62	91	1129311	54.25	ug/l	100
90) Hexachloroethane	13.88	117	256791	51.76	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	761113	51.28	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	68580	57.25	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
Data File : VN050918.D
Acq On : 28 Aug 2018 16:59
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM

Quant Time: Aug 29 04:19:45 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	373156	48.46	ug/l	98
94) Hexachlorobutadiene	15.01	225	240683	54.81	ug/l	99
95) Naphthalene	15.14	128	785633	48.94	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	367665	50.74	ug/l	99

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

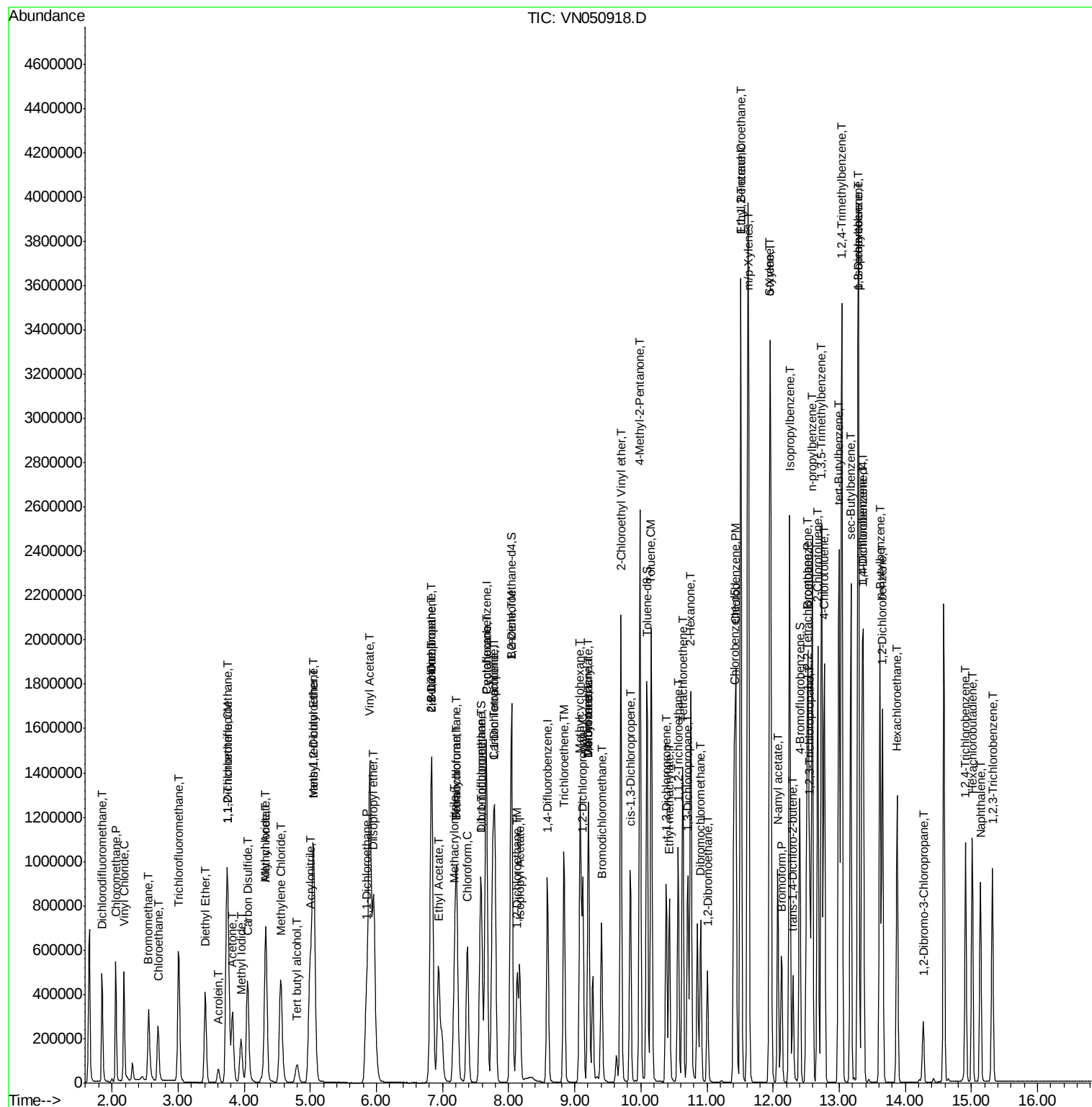
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
Data File : VN050918.D
Acq On : 28 Aug 2018 16:59
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM

Quant Time: Aug 29 04:19:45 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:168 Resp: 610868

Ion Ratio Lower Upper

168 100

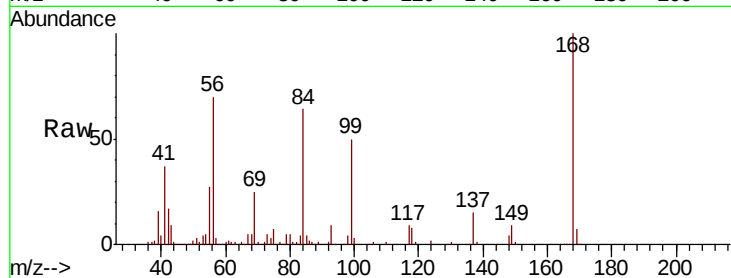
99 49.8 39.6 59.4

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:30 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

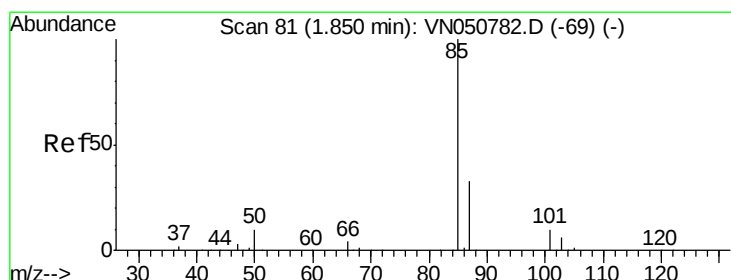
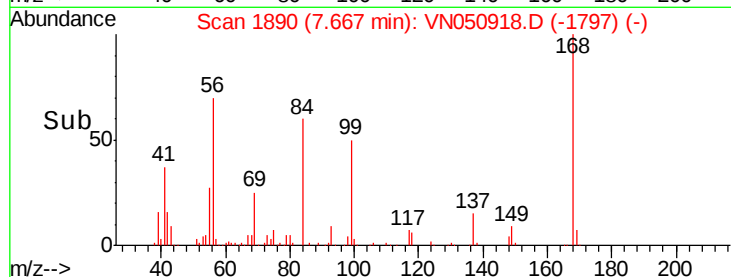
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 48.65 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050918.D

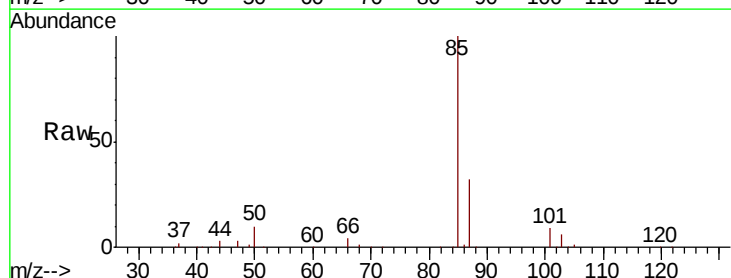
Acq: 28 Aug 2018 16:59

Tgt Ion: 85 Resp: 397751

Ion Ratio Lower Upper

85 100

87 31.8 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300000

250000

200000

150000

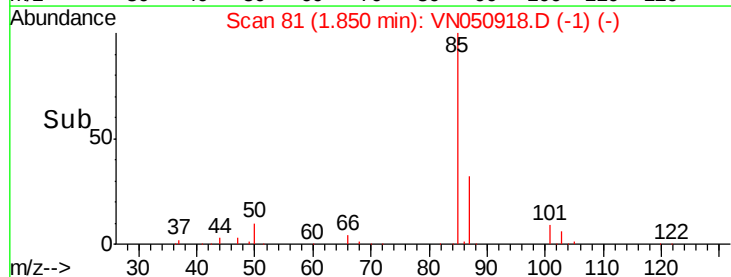
100000

50000

0

1.80 1.85 1.90 1.95

Time-->





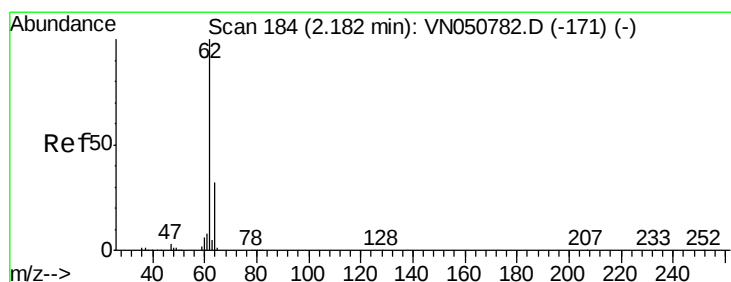
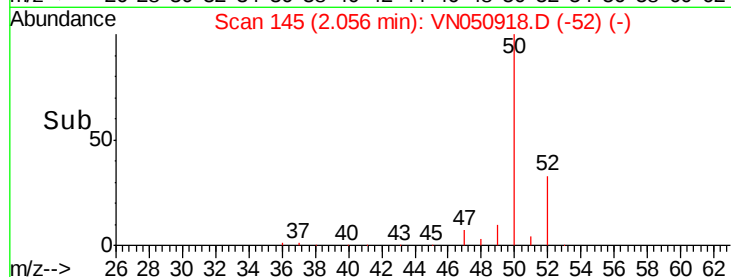
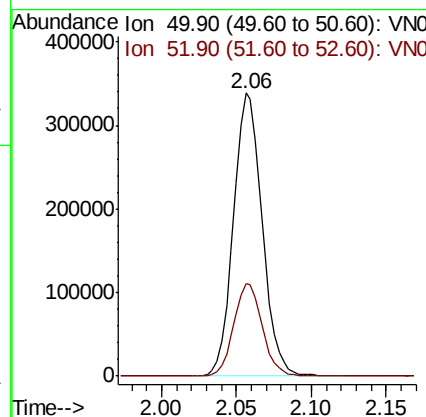
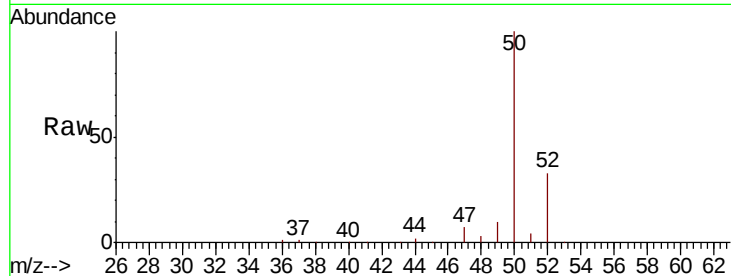
#3
Chloromethane
Concen: 44.86 ug/l
RT: 2.06 min Scan# 145
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.3	39.5

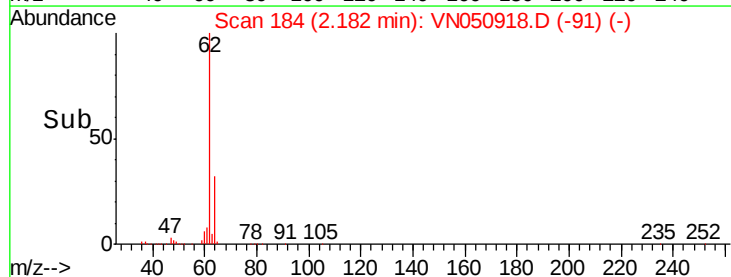
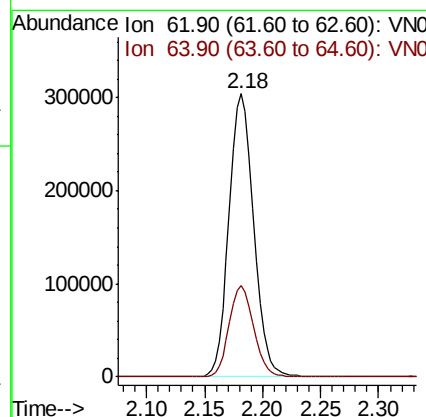
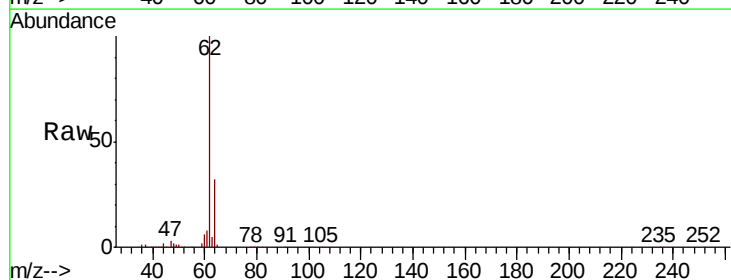
Manual Integrations
APPROVED

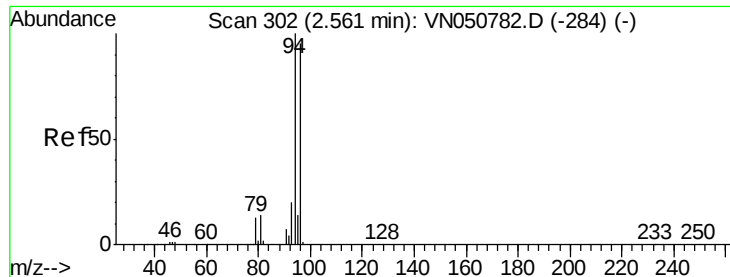
MMDadoda
8/29/2018 11:10:30 AM



#4
Vinyl Chloride
Concen: 46.90 ug/l
RT: 2.18 min Scan# 184
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.4	38.2





#5

Bromomethane

Concen: 46.37 ug/l

RT: 2.55 min Scan# 300

Delta R.T. -0.01 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 94 Resp: 252148

Ion Ratio Lower Upper

94 100

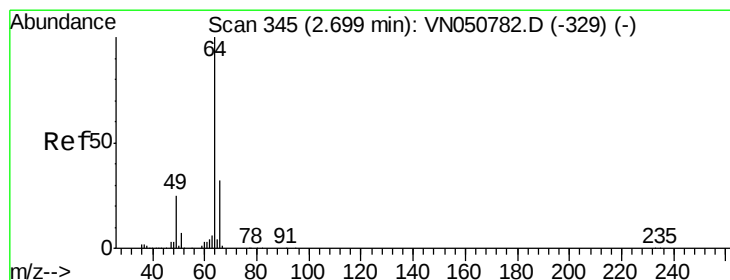
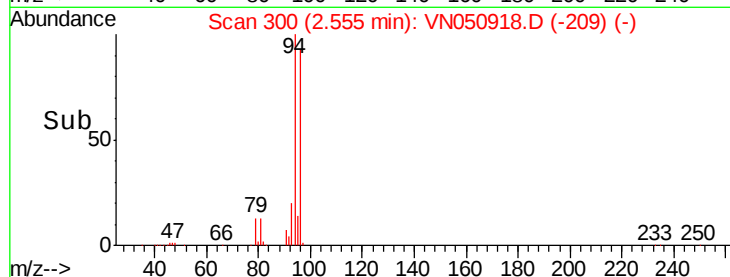
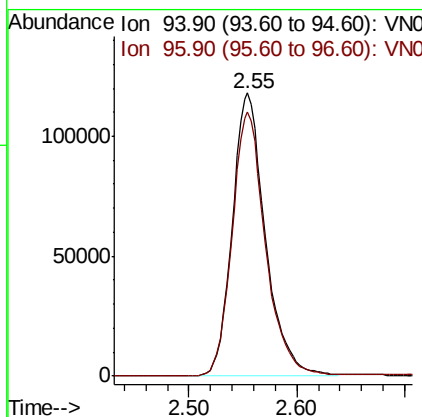
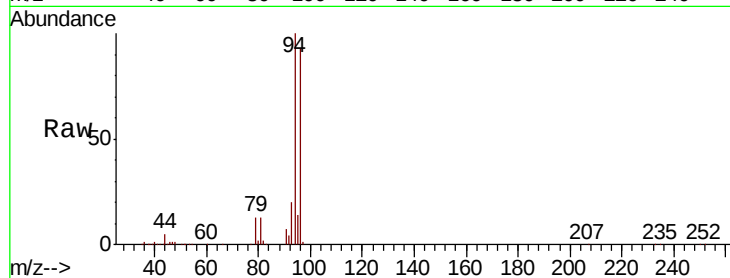
96 93.3 76.2 114.2

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:30 AM



#6

Chloroethane

Concen: 46.05 ug/l

RT: 2.70 min Scan# 344

Delta R.T. -0.00 min

Lab File: VN050918.D

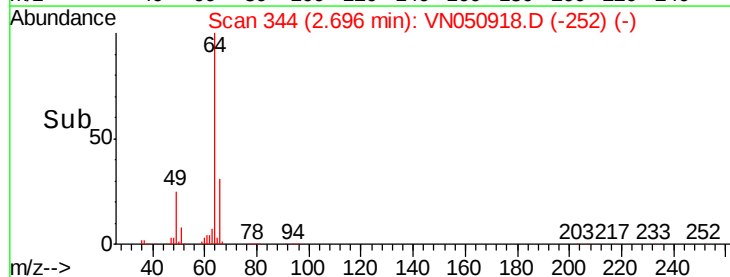
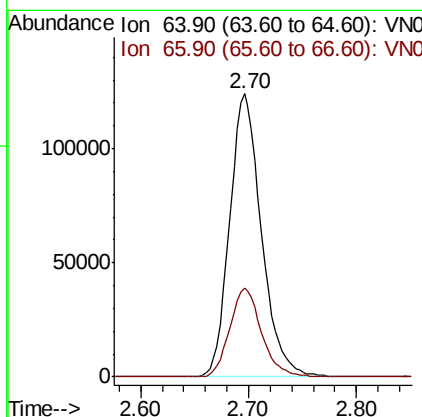
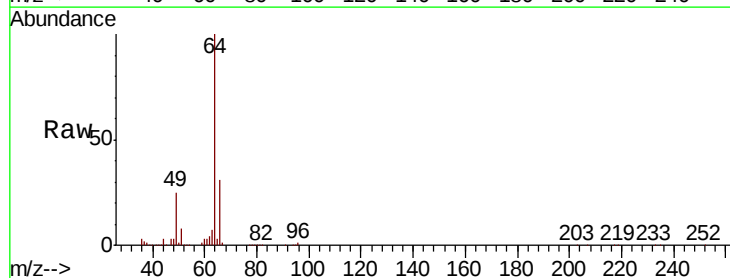
Acq: 28 Aug 2018 16:59

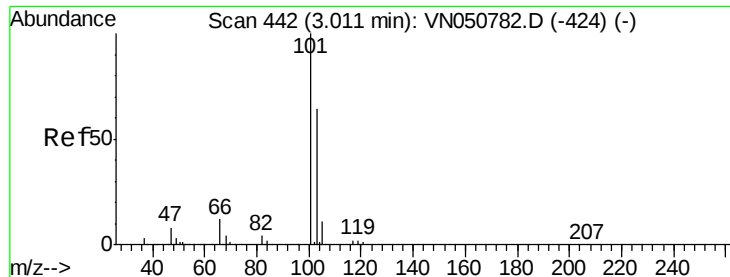
Tgt Ion: 64 Resp: 254159

Ion Ratio Lower Upper

64 100

66 31.3 25.3 37.9





#7

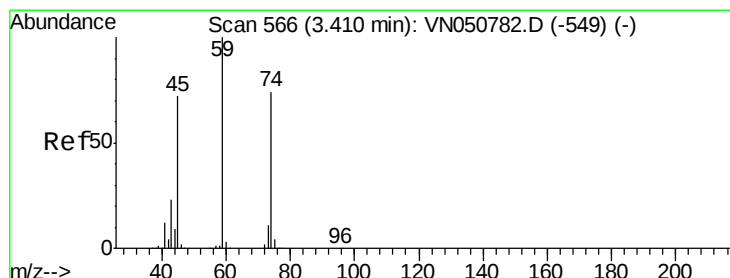
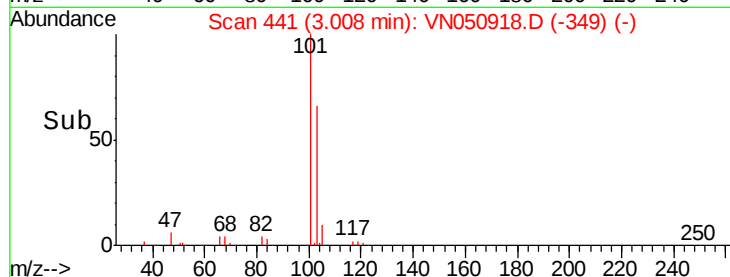
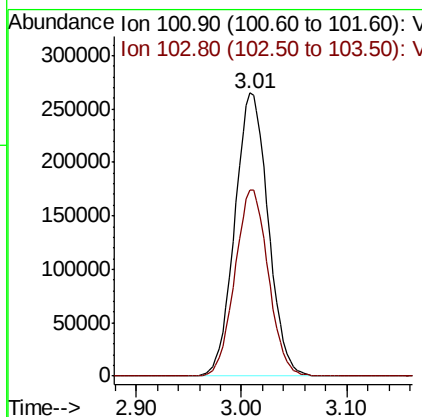
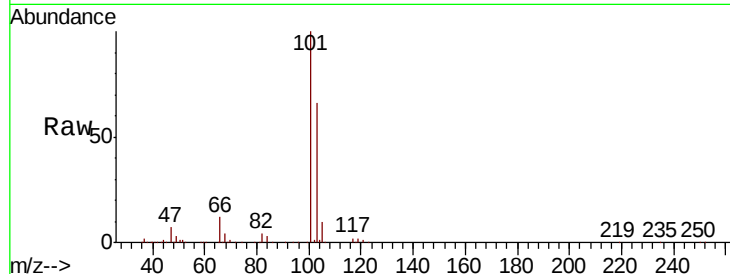
Trichlorofluoromethane
 Concen: 47.56 ug/l
 RT: 3.01 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		581711		
103	65.9	51.6	77.4		

Manual Integrations
 APPROVED

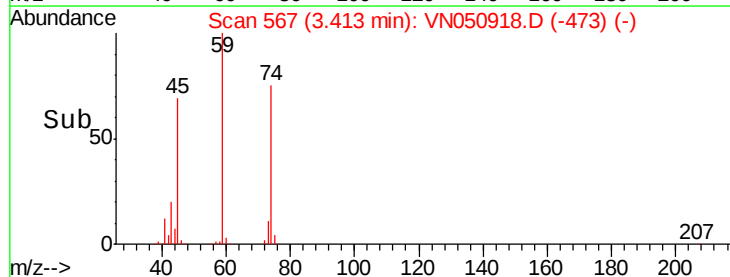
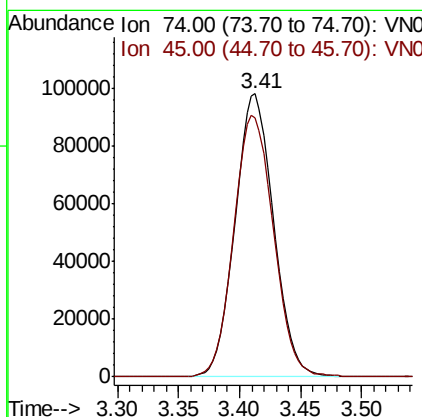
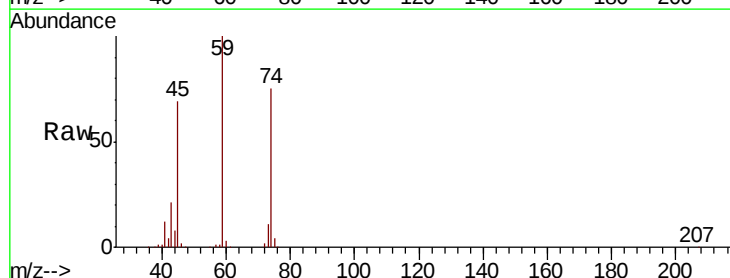
MMDadoda
 8/29/2018 11:10:30 AM



#8

Diethyl Ether
 Concen: 51.69 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		214989		
45	95.7	48.2	144.6		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.79 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

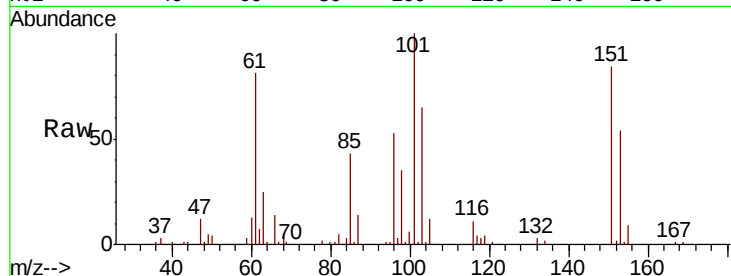
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	365201
Ion Ratio	Lower	Upper	
101	100		
85	42.4	33.7	50.5
151	83.9	67.4	101.2

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM

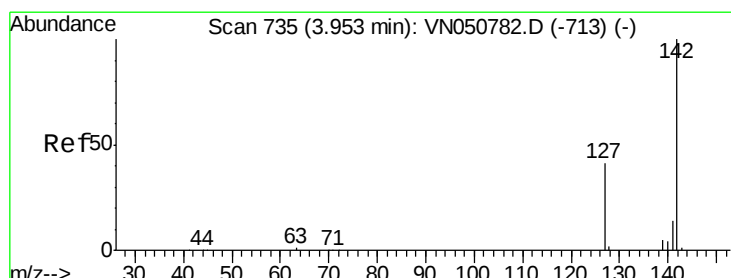
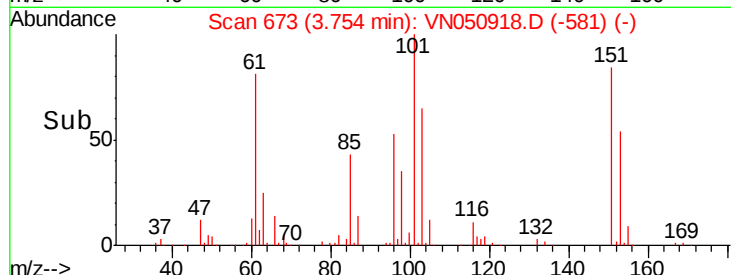
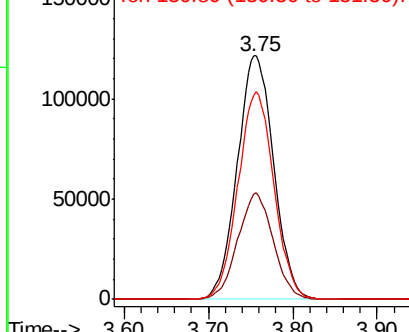


Abundance

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: 49.92 ug/l

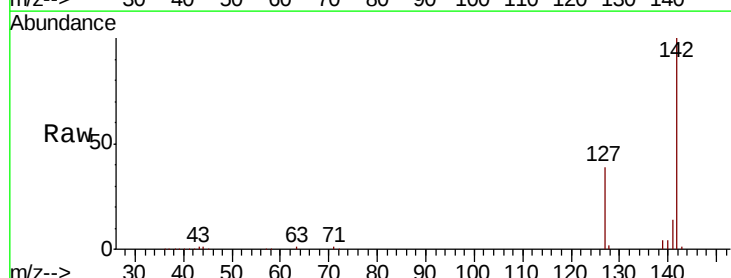
RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Tgt Ion:	142	Resp:	334650
Ion Ratio	Lower	Upper	
142	100		
127	39.2	31.7	47.5
141	13.6	11.4	17.0

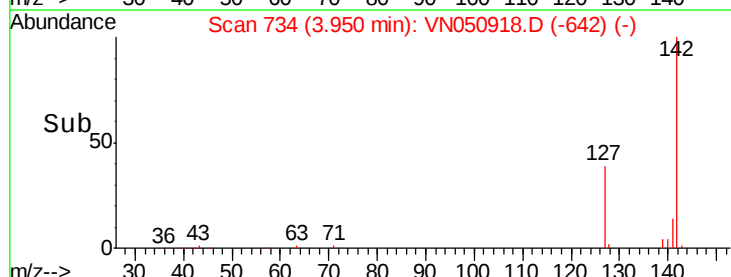
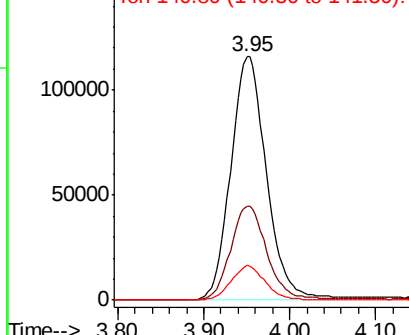


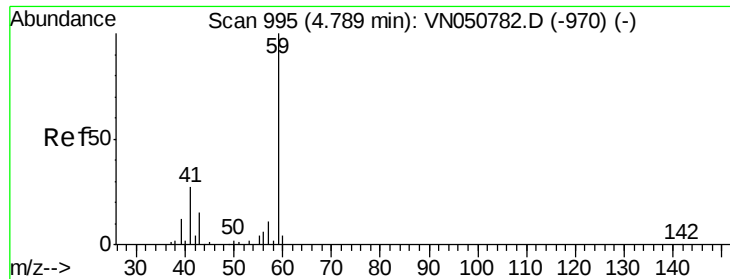
Abundance

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





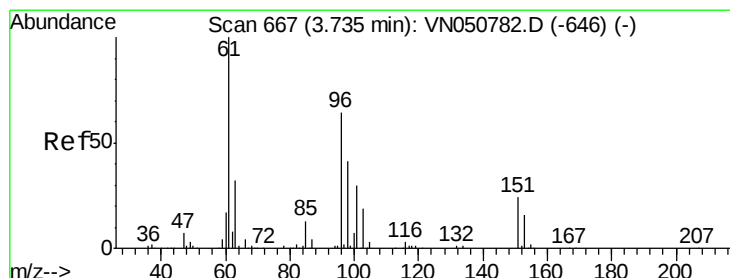
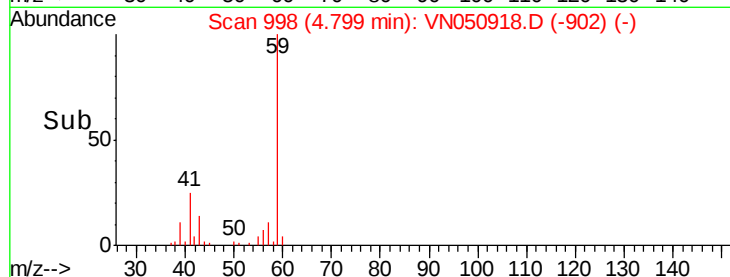
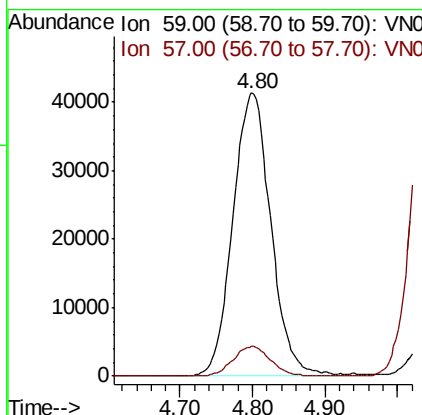
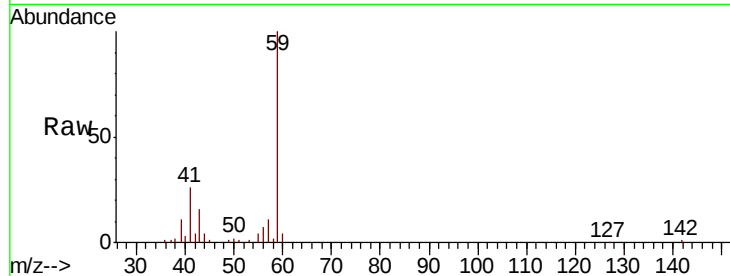
#11
Tert butyl alcohol
Concen: 321.89 ug/l
RT: 4.80 min Scan# 998
Delta R.T. 0.01 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	59	Resp	150737
Ion Ratio	100	Lower	Upper
57	10.4	8.3	12.5

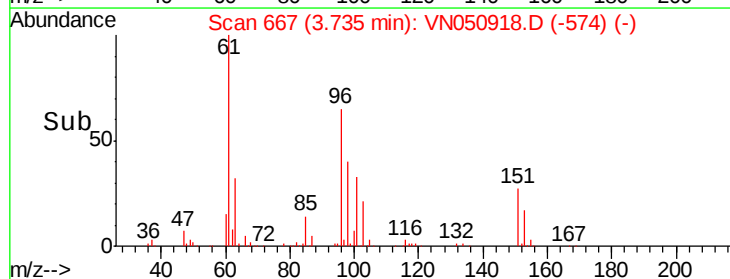
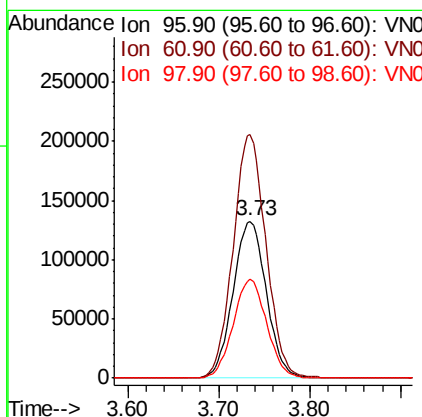
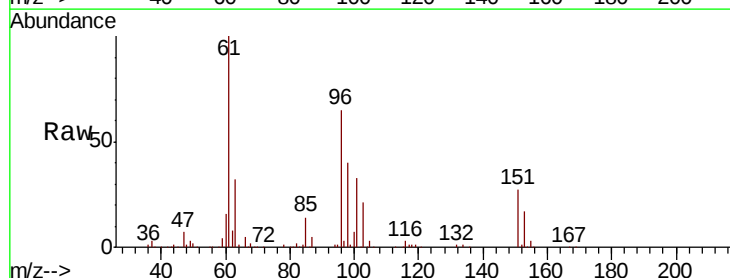
Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#12
1,1-Dichloroethene
Concen: 49.12 ug/l
RT: 3.73 min Scan# 667
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	96	Resp	337018
Ion Ratio	100	Lower	Upper
61	155.0	124.9	187.3
98	62.6	51.1	76.7





#13

Acrolein

Concen: 259.91 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 71282

Ion Ratio Lower Upper

56 100

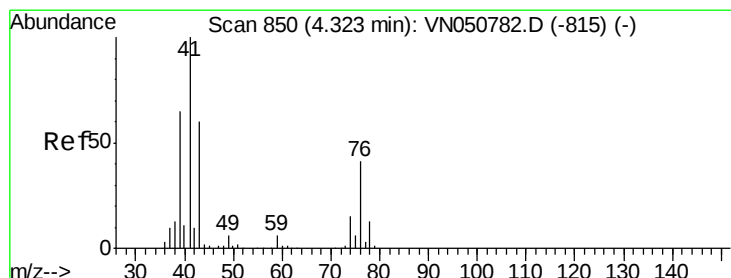
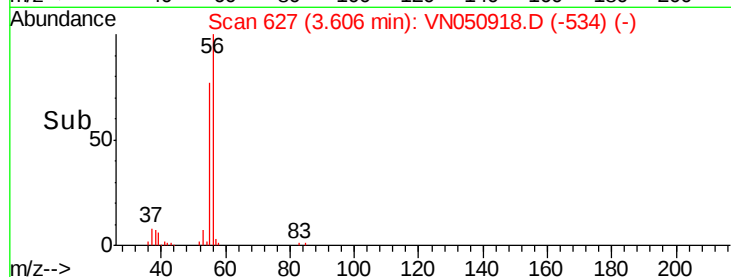
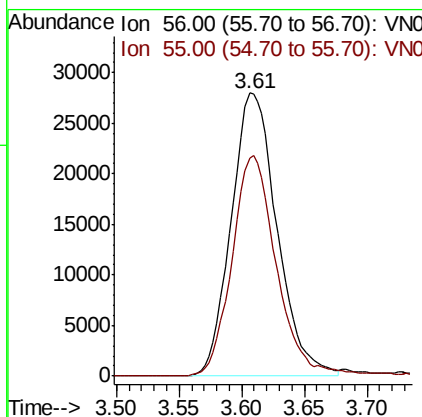
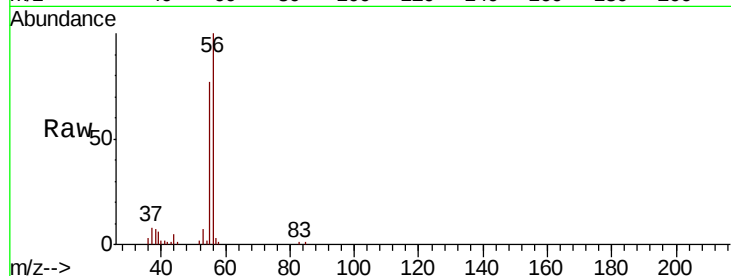
55 75.2 57.7 86.5

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:30 AM



#14

Allyl chloride

Concen: 50.09 ug/l

RT: 4.32 min Scan# 850

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

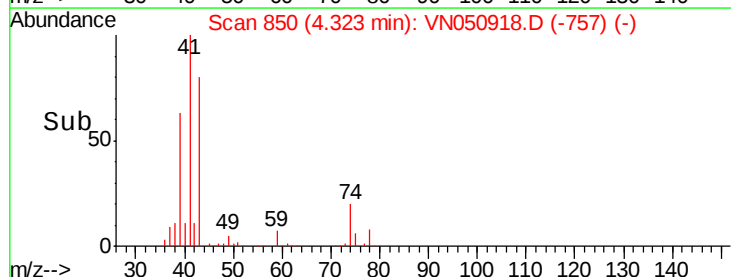
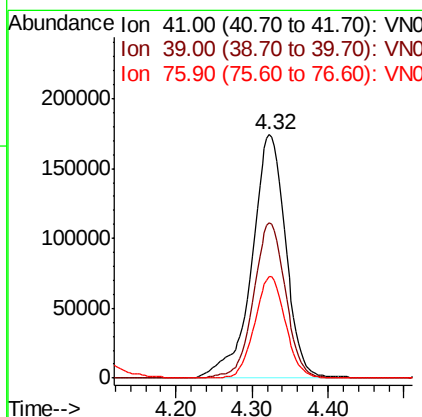
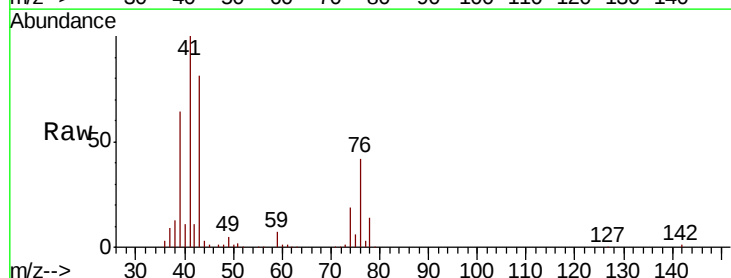
Tgt Ion: 41 Resp: 535540

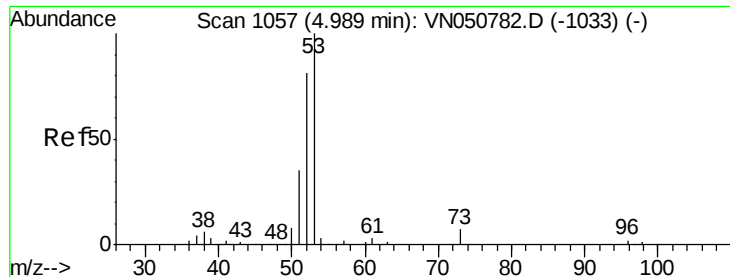
Ion Ratio Lower Upper

41 100

39 60.6 50.2 75.2

76 37.7 29.8 44.8





#15

Acrylonitrile

Concen: 289.72 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

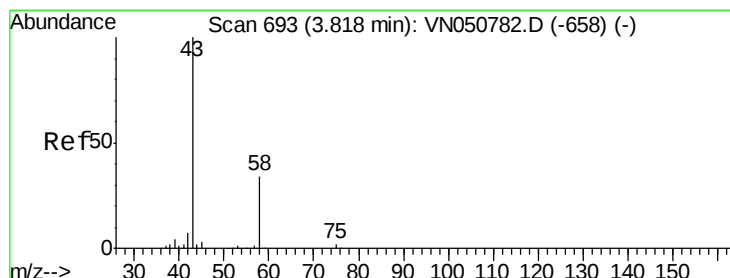
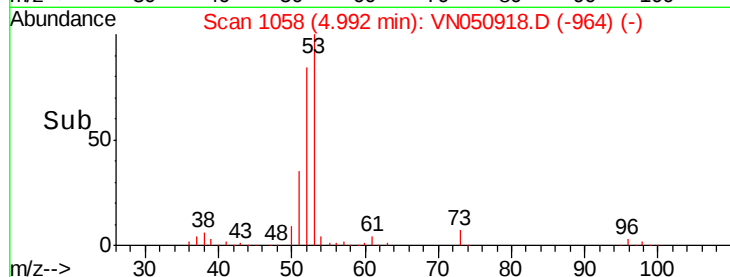
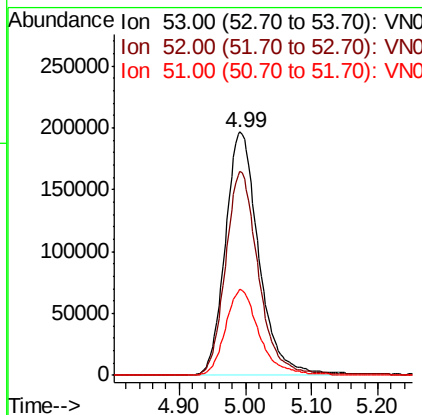
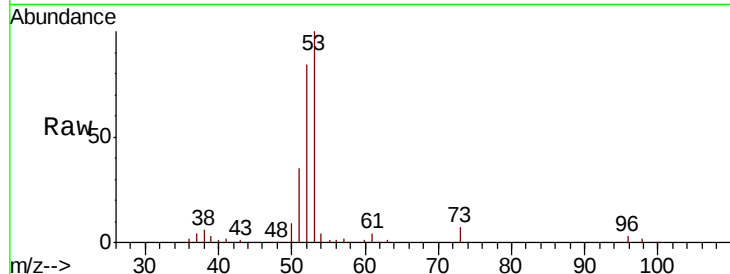
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	689492
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.9	98.9
51	35.6	28.6	43.0

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#16

Acetone

Concen: 287.51 ug/l

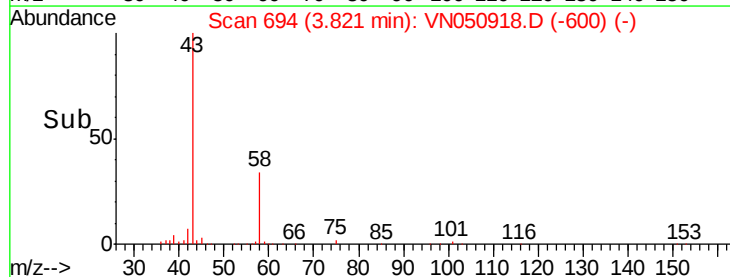
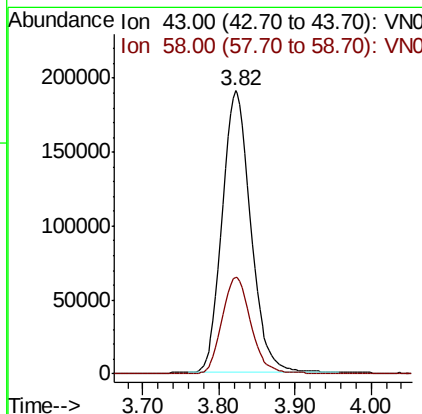
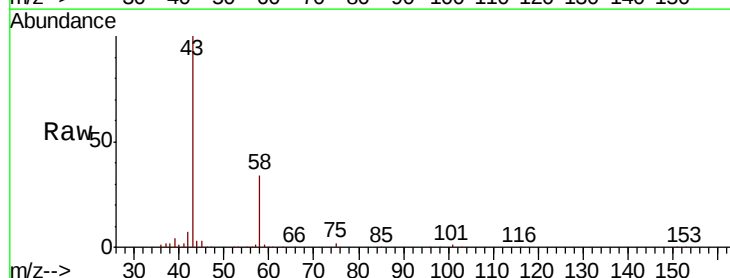
RT: 3.82 min Scan# 694

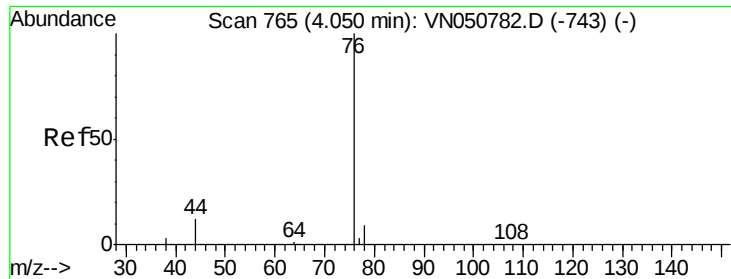
Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Tgt Ion:	43	Resp:	498840
Ion	Ratio	Lower	Upper
43	100		
58	34.3	27.2	40.8





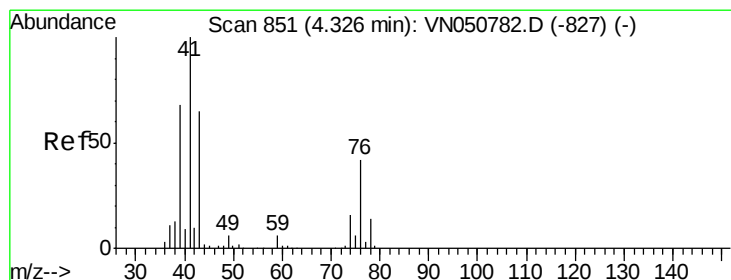
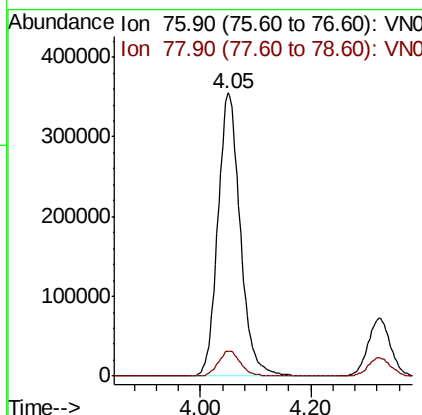
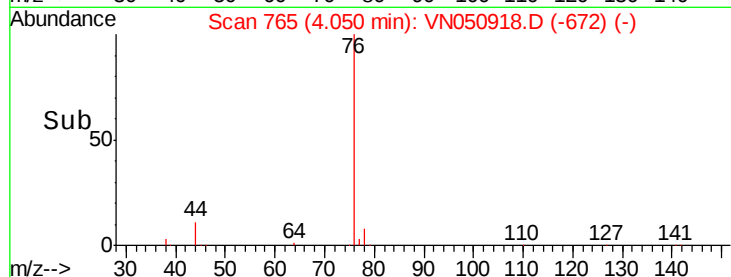
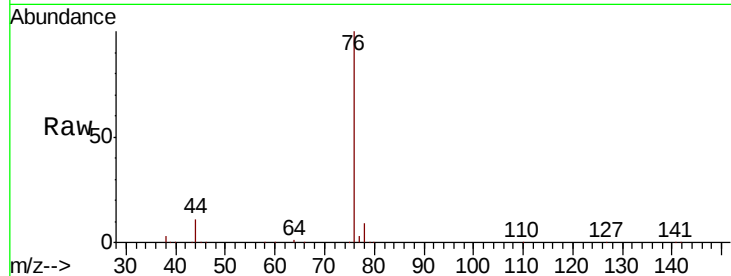
#17
Carbon Disulfide
Concen: 43.11 ug/l
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.3	10.9

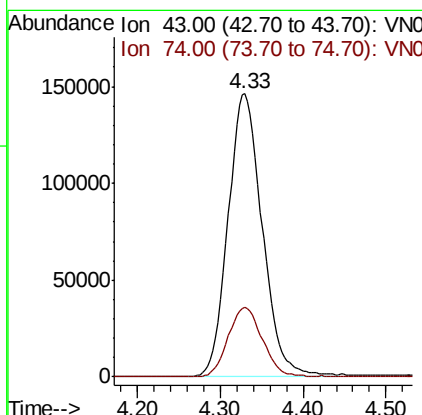
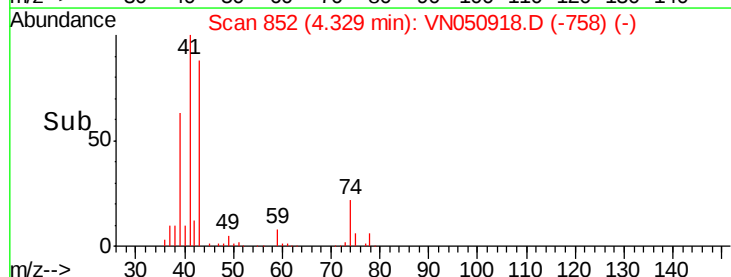
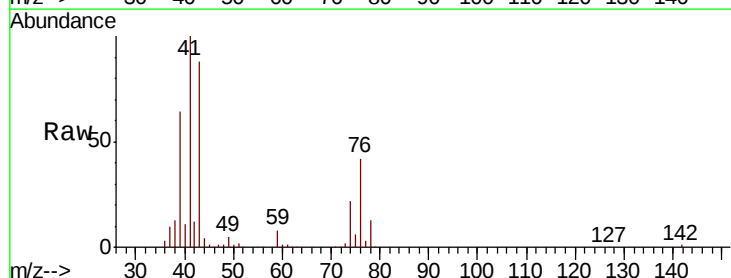
Manual Integrations
APPROVED

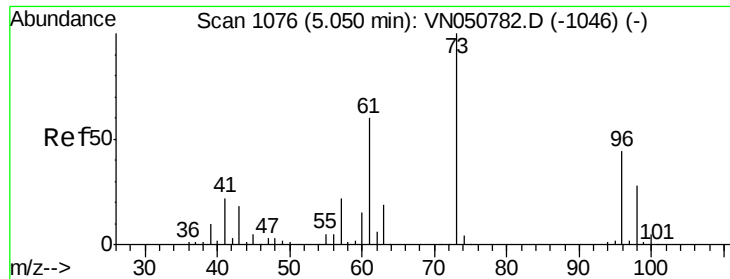
MMDadoda
8/29/2018 11:10:30 AM



#18
Methyl Acetate
Concen: 60.19 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.8	29.8





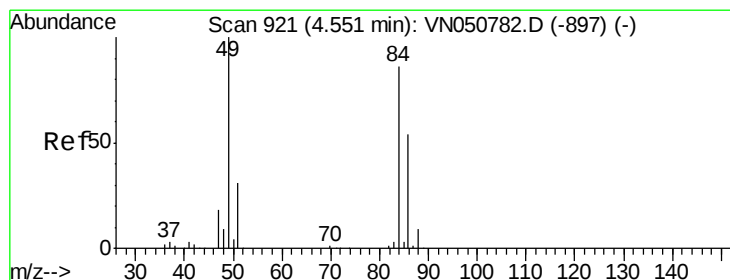
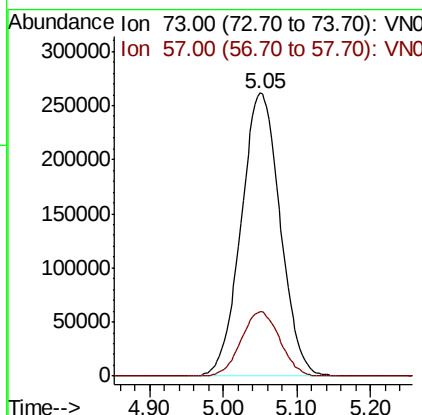
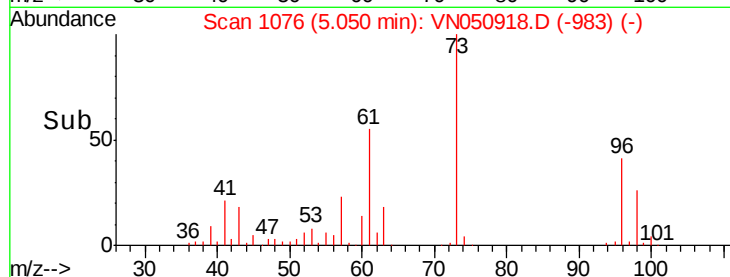
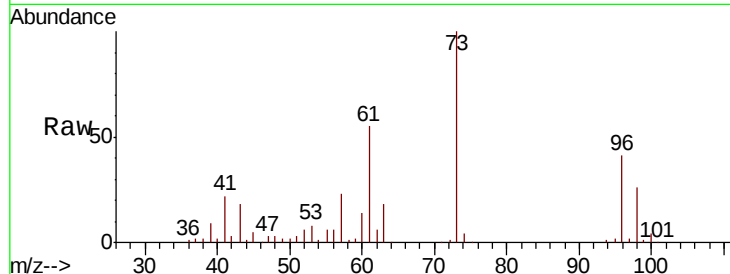
#19
Methvl tert-butvl Ether
Concen: 55.91 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.8	26.8

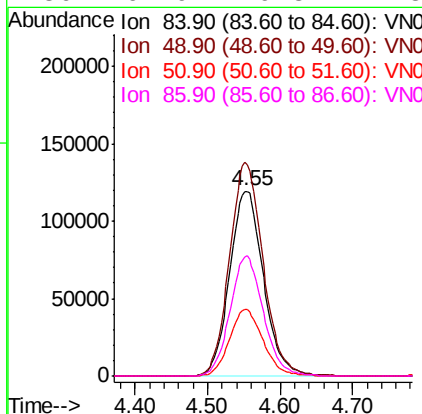
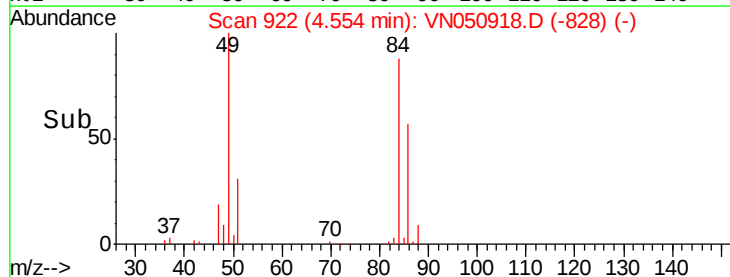
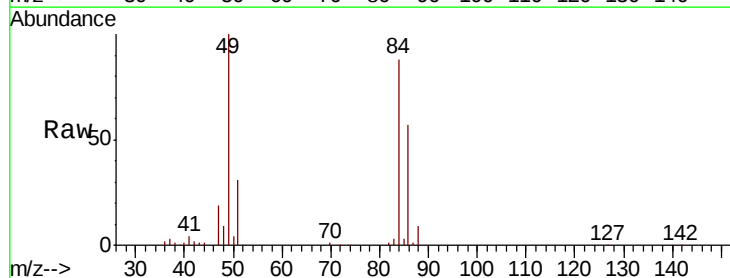
Manual Integrations
APPROVED

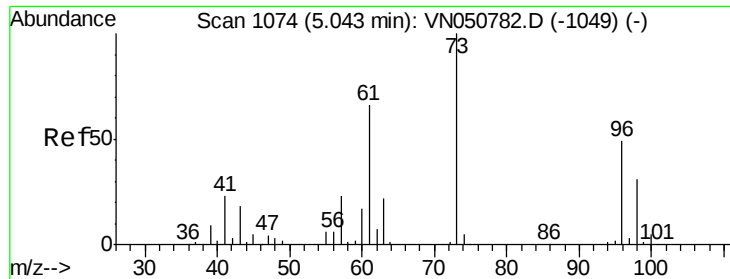
MMDadoda
8/29/2018 11:10:30 AM



#20
Methylene Chloride
Concen: 46.78 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
84	100		
49	114.2	93.2	139.8
51	35.8	29.0	43.6
86	64.9	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 47.93 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

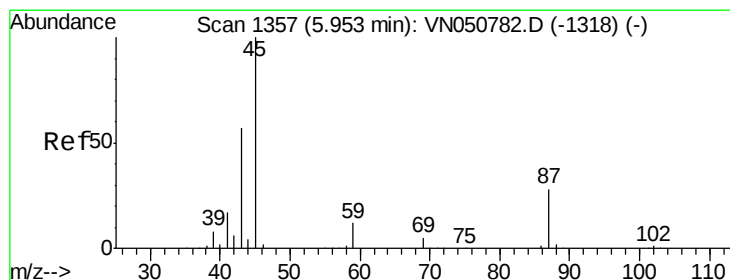
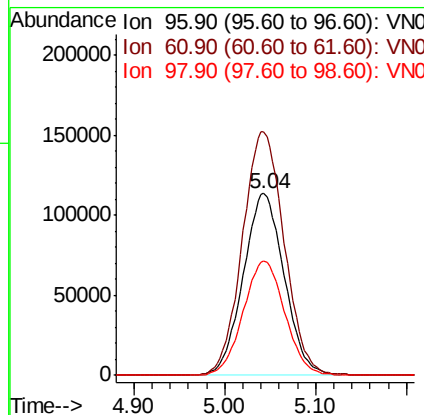
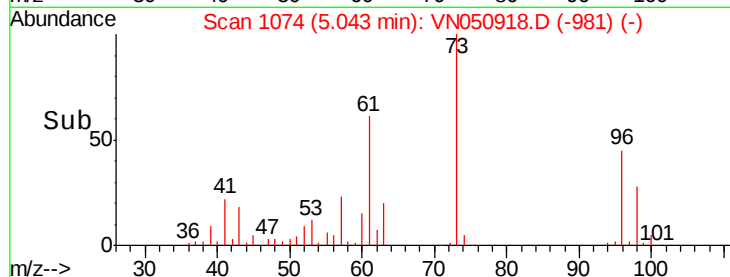
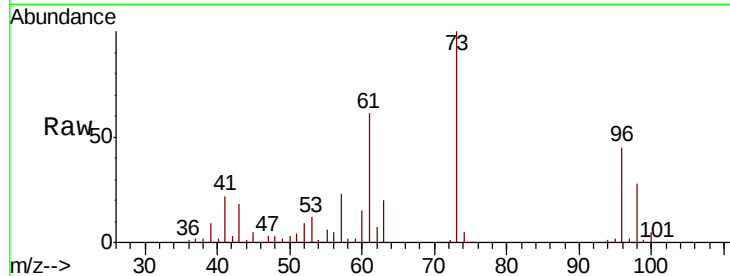
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.7	107.4	161.0
98	62.9	50.7	76.1

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#22

Diisopropyl ether

Concen: 53.06 ug/l

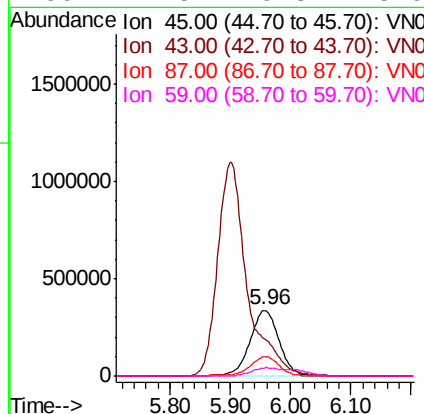
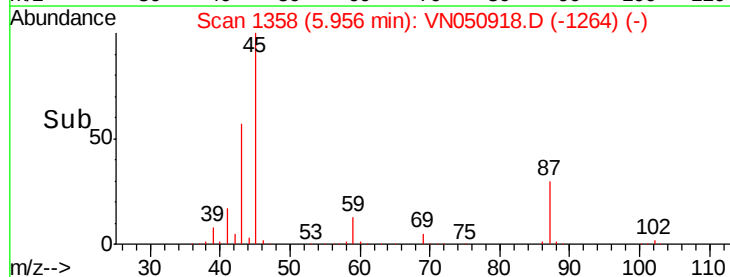
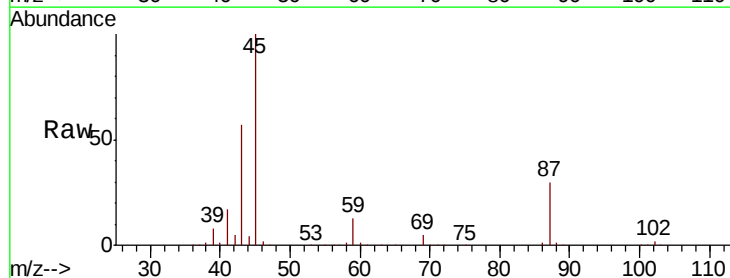
RT: 5.96 min Scan# 1358

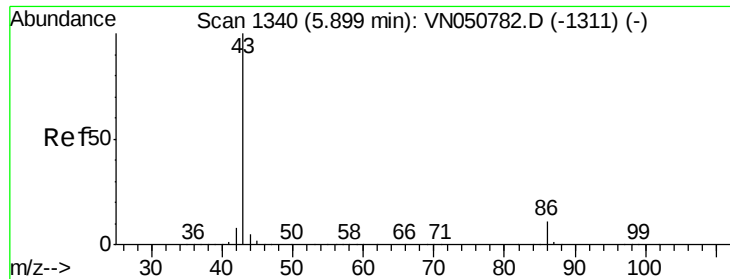
Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.5	45.9	68.9
87	29.7	22.7	34.1
59	12.5	9.3	13.9





#23

Vinyl Acetate

Concen: 271.67 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3727561

Ion Ratio Lower Upper

43 100

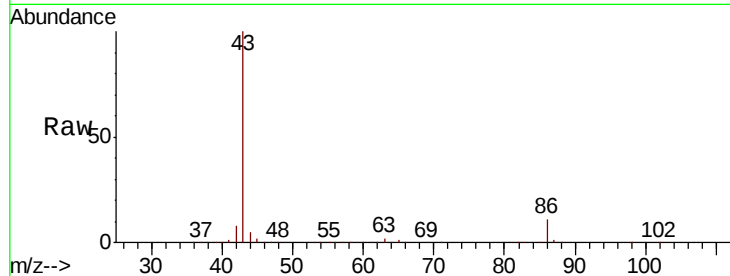
86 10.9 8.7 13.1

Manual Integrations

APPROVED

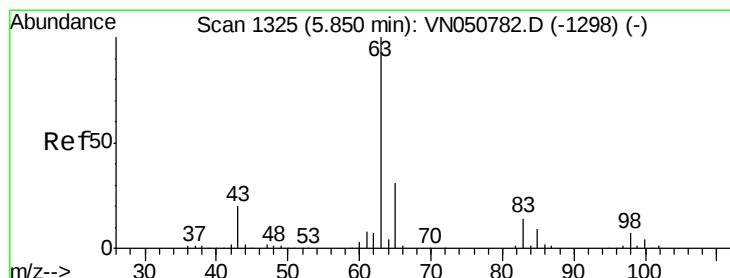
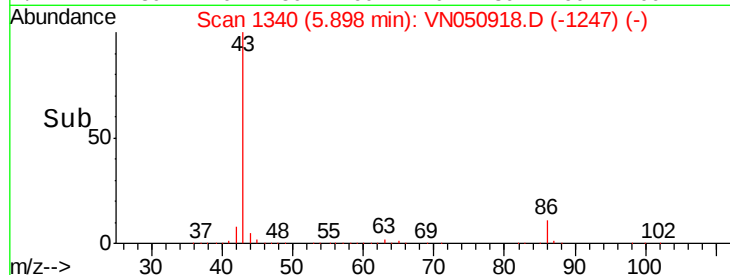
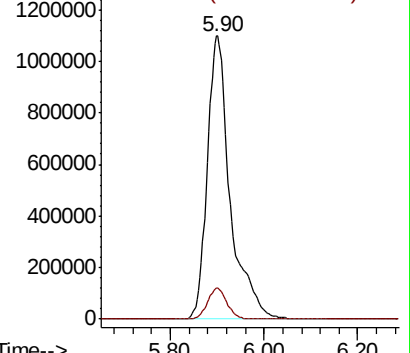
MMDadoda

8/29/2018 11:10:30 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 48.41 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

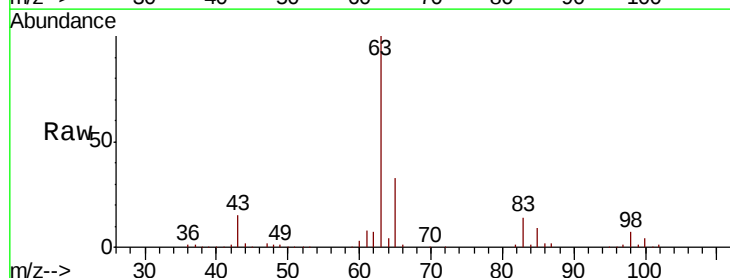
Tgt Ion: 63 Resp: 662202

Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.8

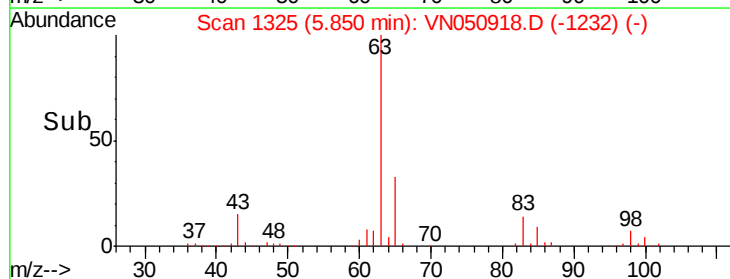
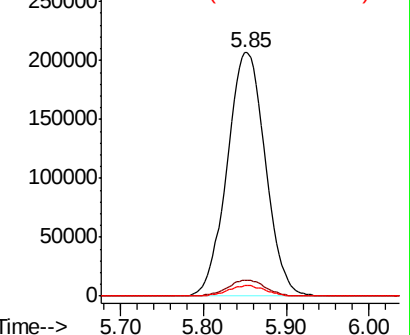
100 4.1 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 267.00 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 791297

Ion Ratio Lower Upper

43 100

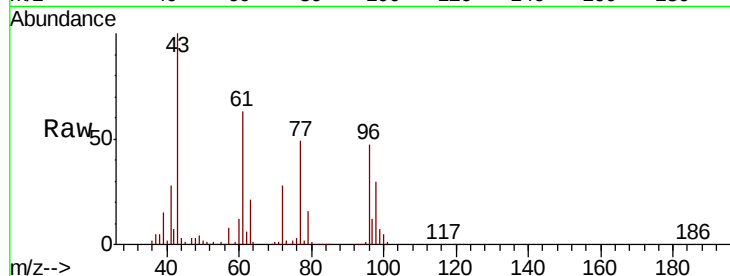
72 28.0 22.3 33.5

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:30 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

300000

250000

200000

150000

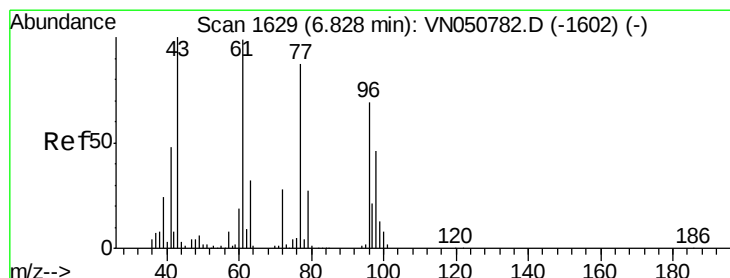
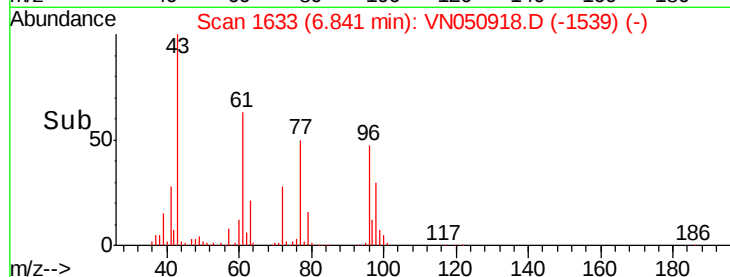
100000

50000

0

6.75 6.80 6.85 6.90

Time-->



#26

2,2-Dichloropropane

Concen: 47.34 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050918.D

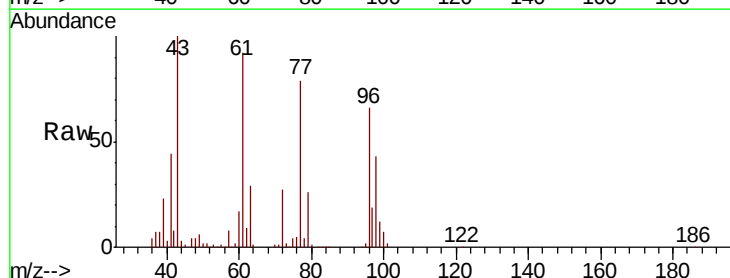
Acq: 28 Aug 2018 16:59

Tgt Ion: 77 Resp: 520341

Ion Ratio Lower Upper

77 100

97 24.3 12.0 36.0



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

150000

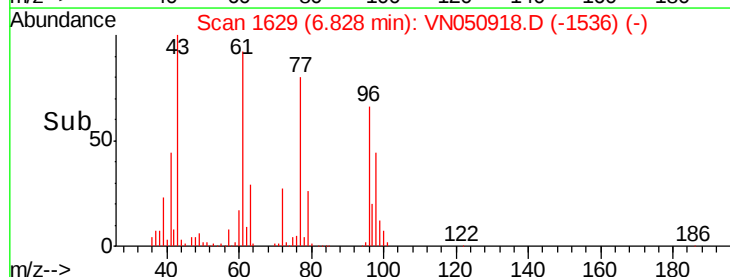
100000

50000

0

6.70 6.80 6.90 7.00

Time-->





#27

cis-1,2-Dichloroethene

Concen: 50.92 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

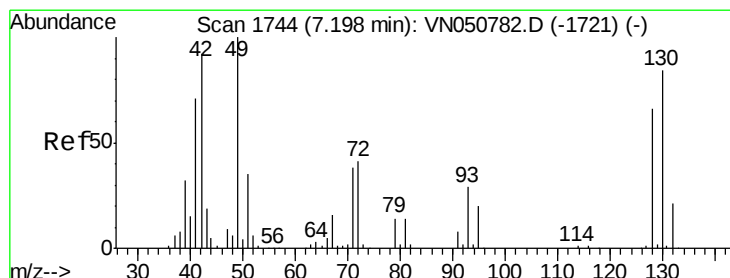
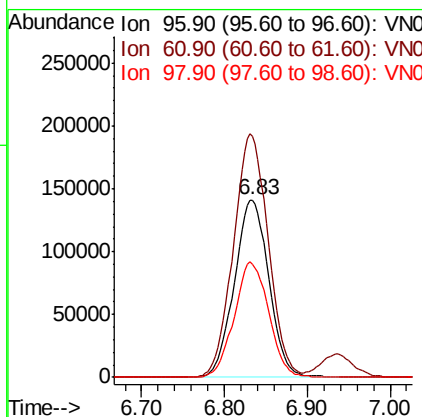
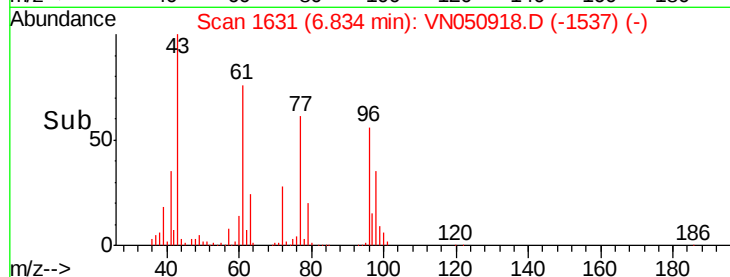
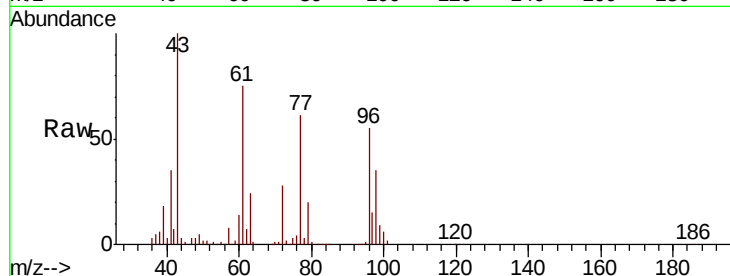
ClientSampled :

VSTDCCC050

Tot Ion:	96	Resp:	407403
Ion	Ratio	Lower	Upper
96	100		
61	138.8	0.0	283.4
98	65.0	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#28

Bromochloromethane

Concen: 51.03 ug/l

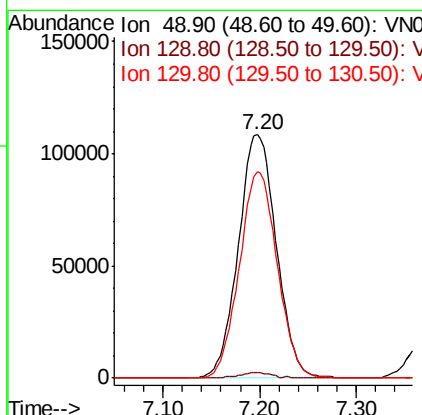
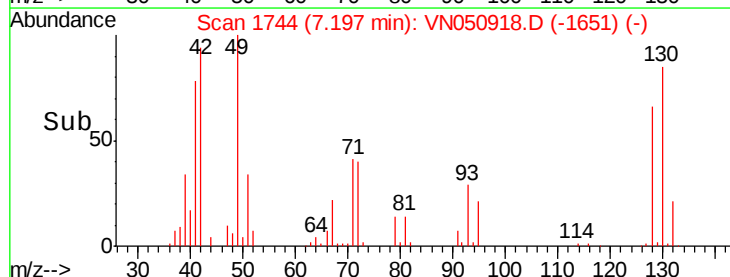
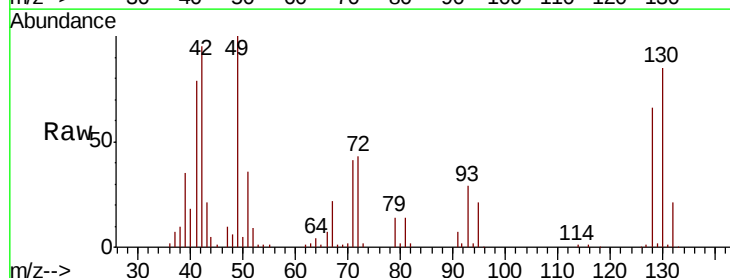
RT: 7.20 min Scan# 1744

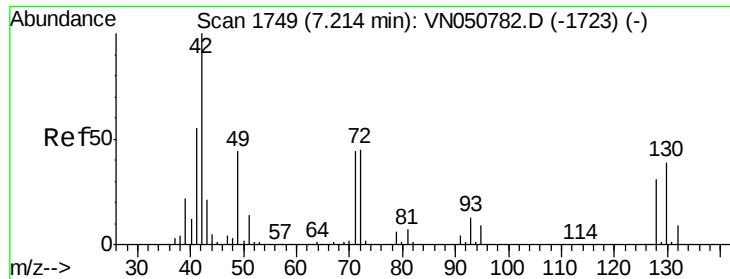
Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Tgt Ion:	49	Resp:	296614
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	84.6	67.1	100.7





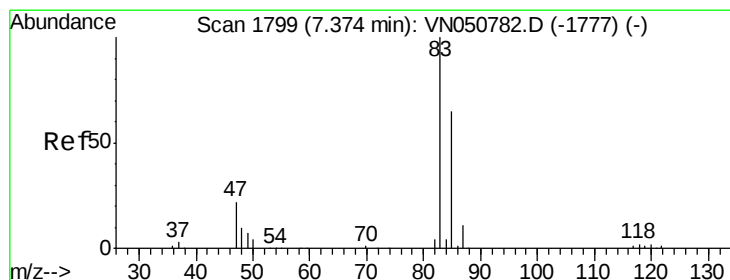
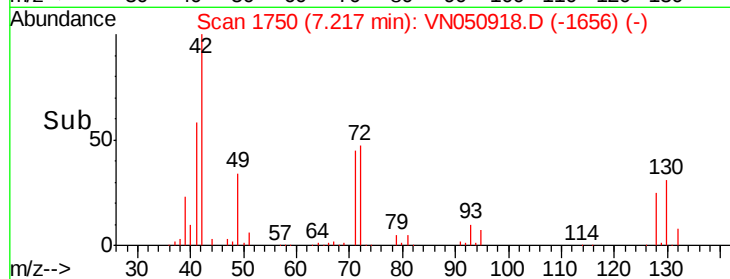
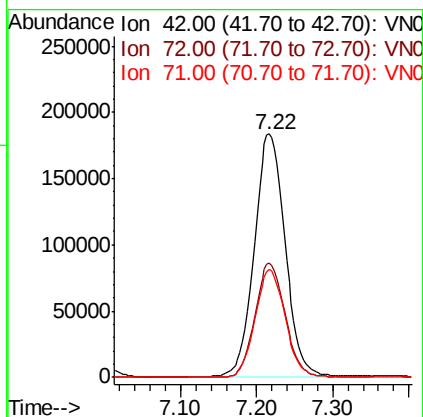
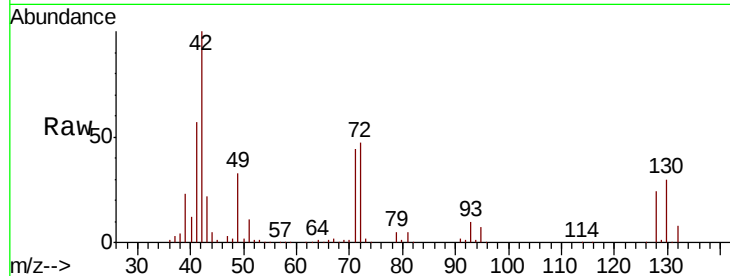
#29
Tetrahydrofuran
Concen: 305.07 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.6	35.5	53.3
71	43.3	33.7	50.5

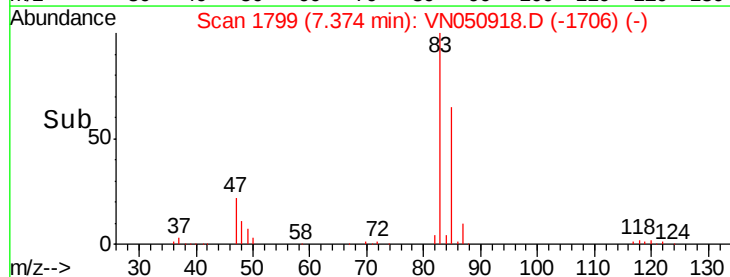
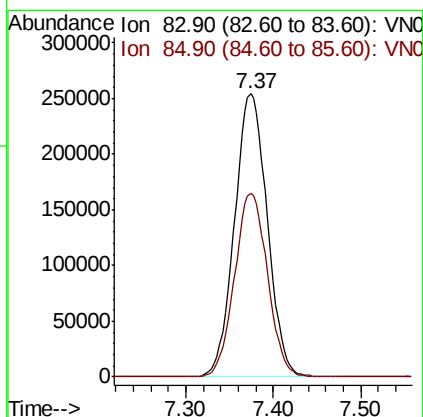
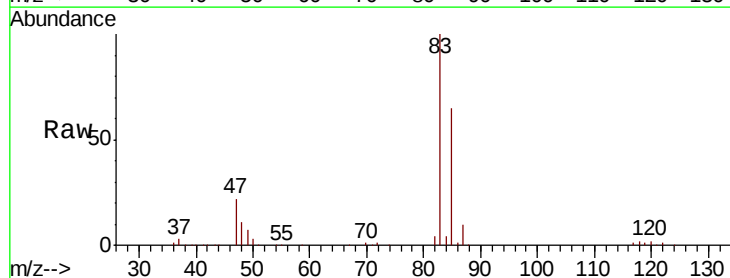
Manual Integrations
APPROVED

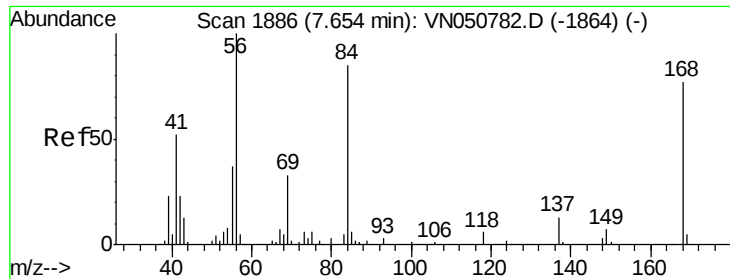
MMDadoda
8/29/2018 11:10:30 AM



#30
Chloroform
Concen: 48.82 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.2	78.4





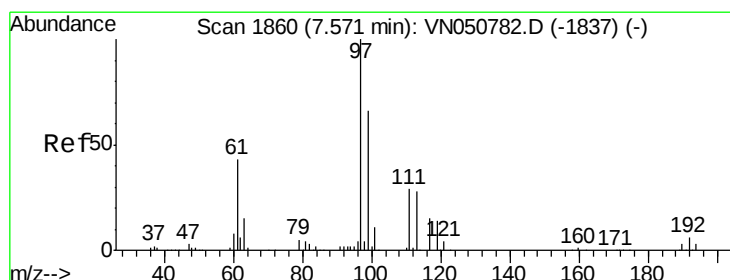
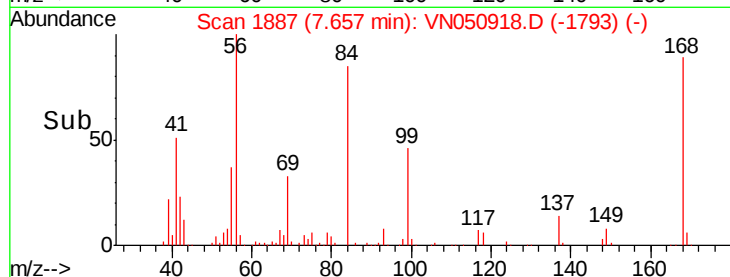
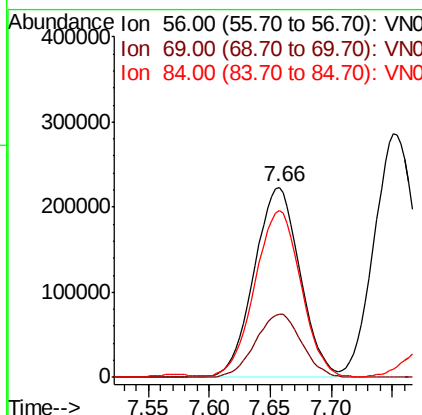
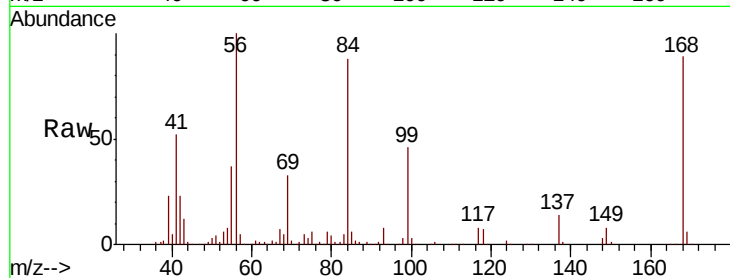
#31
Cyclohexane
Concen: 46.93 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.5	26.2	39.4
84	86.6	68.3	102.5

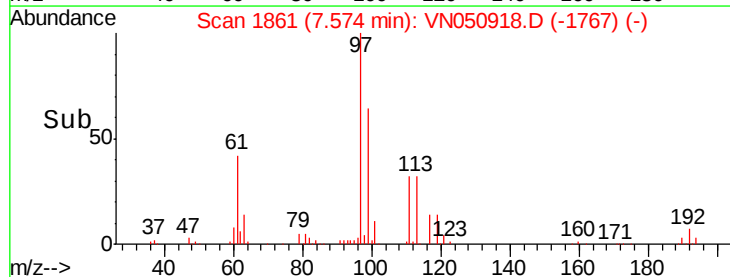
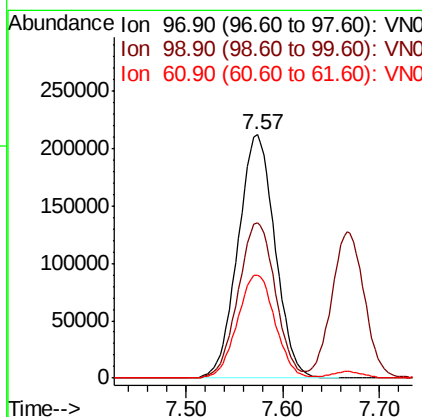
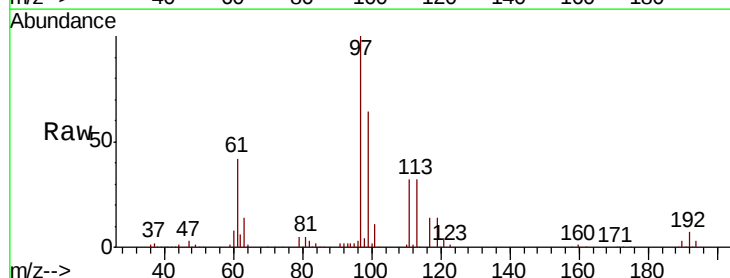
Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#32
1,1,1-Trichloroethane
Concen: 48.51 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.6
61	43.0	34.9	52.3





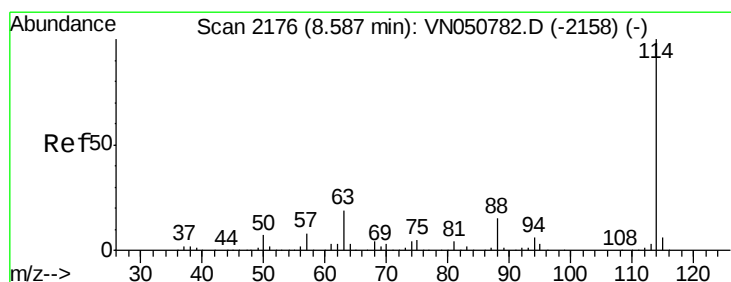
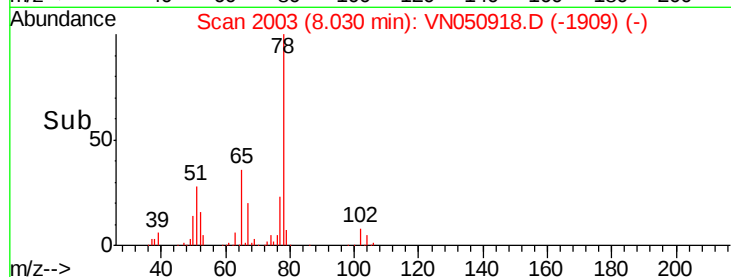
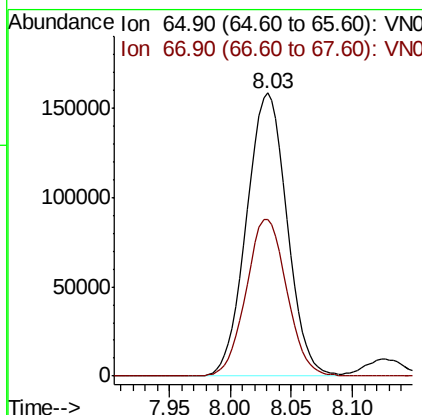
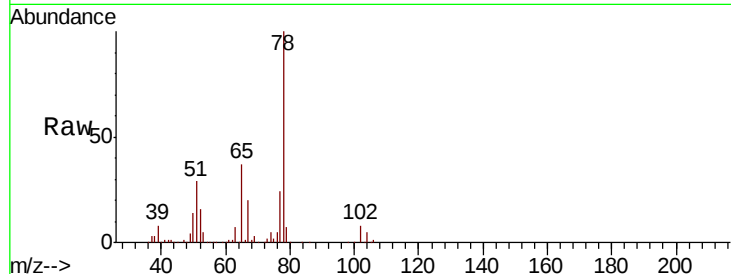
#33
 1,2-Dichloroethane-d4
 Concen: 49.47 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	363770		
67	55.7	0.0	110.4	

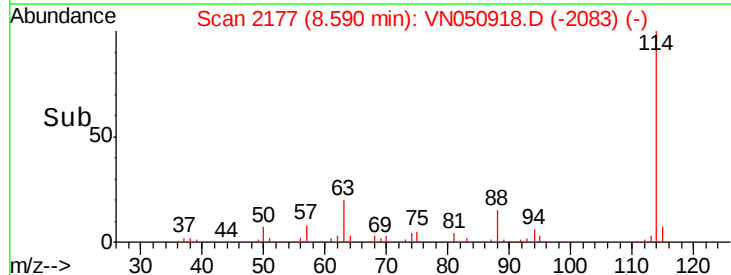
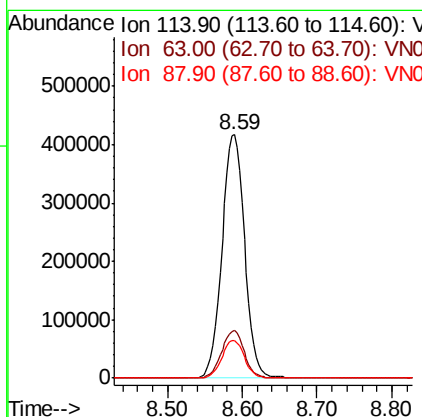
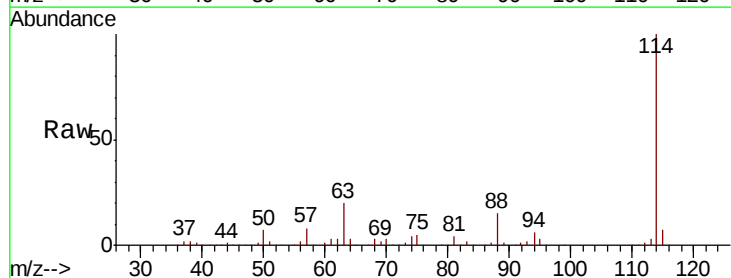
Manual Integrations
 APPROVED

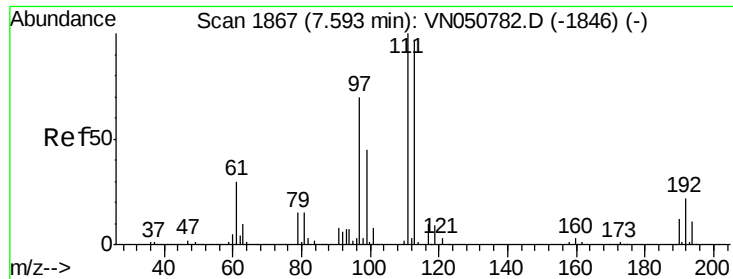
MMDadoda
 8/29/2018 11:10:30 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	870308		
63	19.6	0.0	38.6	
88	15.4	0.0	30.6	





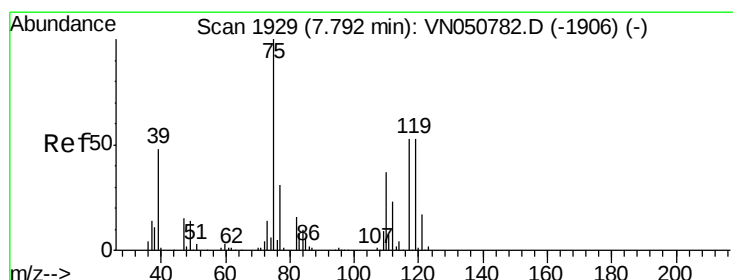
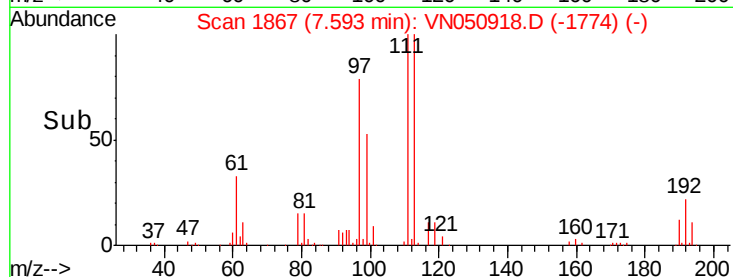
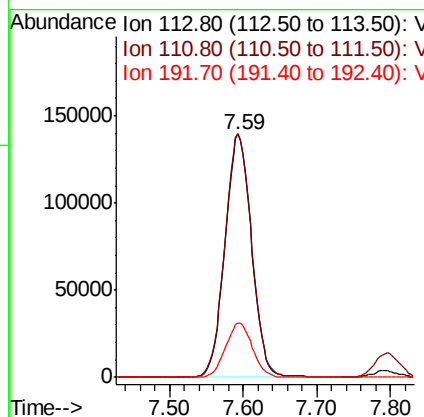
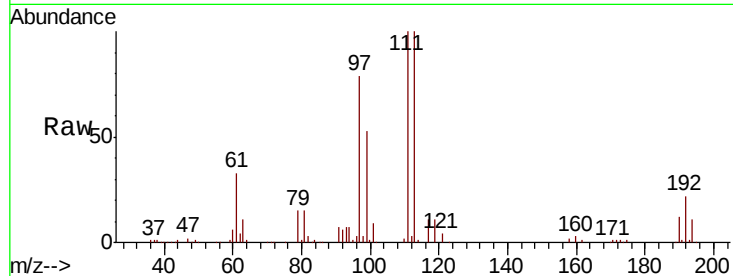
#35
 Dibromofluoromethane
 Concen: 50.39 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.0	82.6	123.8	
192	22.5	18.0	27.0	

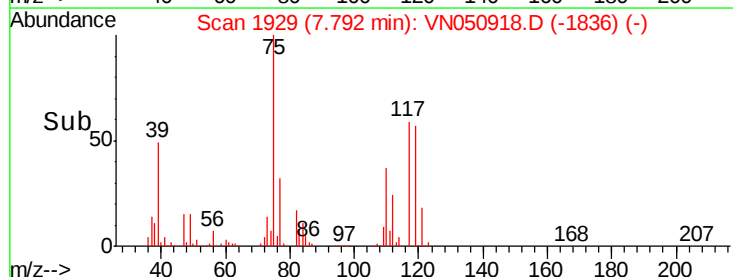
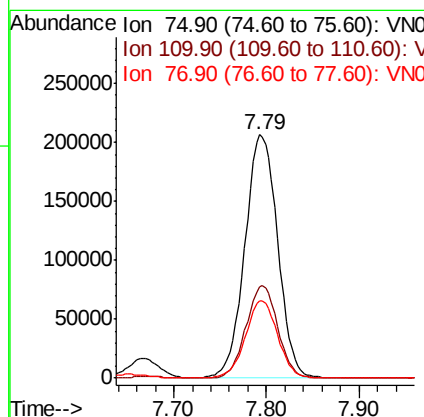
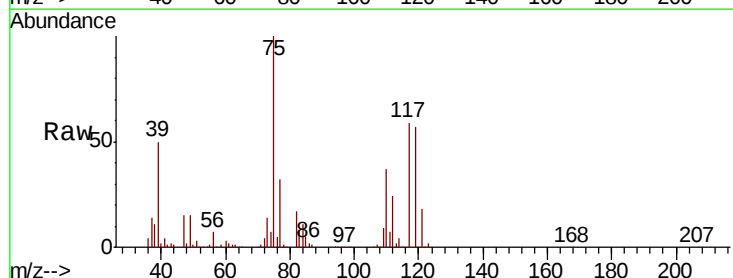
Manual Integrations
 APPROVED

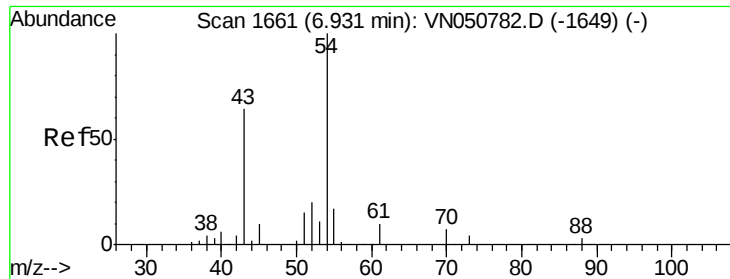
MMDadoda
 8/29/2018 11:10:30 AM



#36
 1,1-Dichloropropene
 Concen: 49.23 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.0	18.1	54.4	
77	31.5	24.8	37.2	





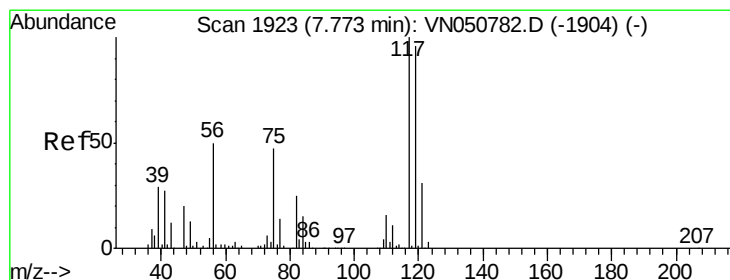
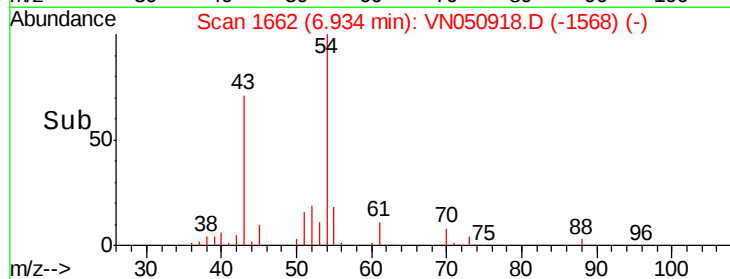
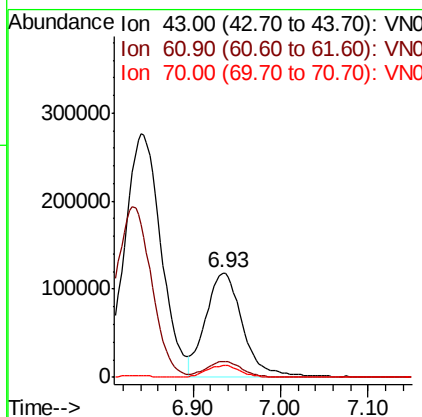
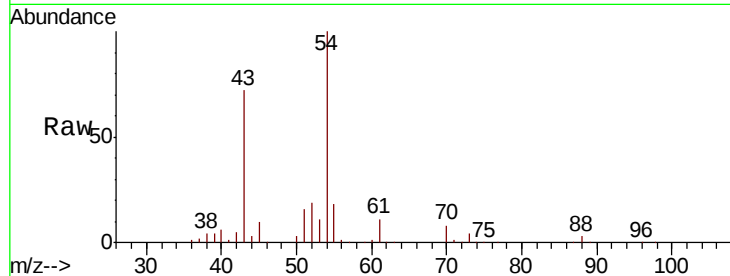
#37
Ethyl Acetate
Concen: 58.28 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.0	18.0
70	11.0	8.6	13.0

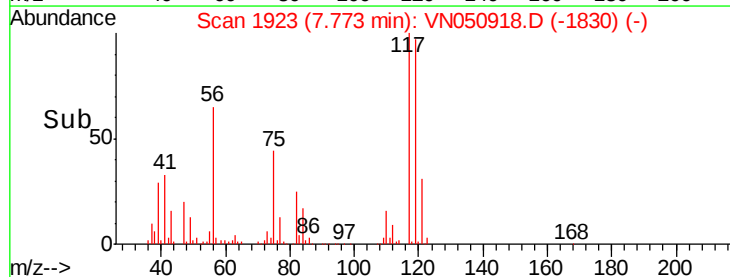
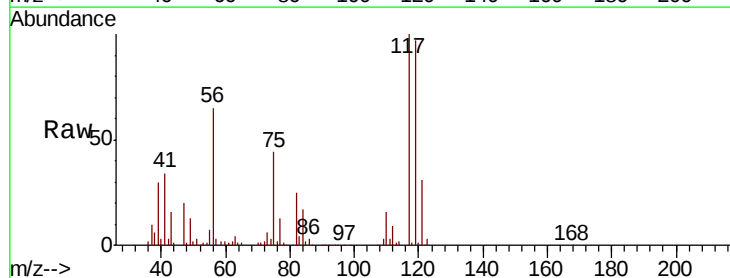
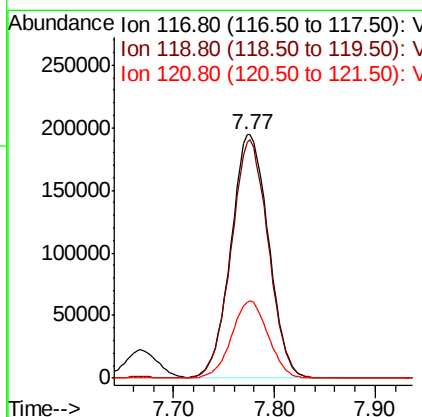
Manual Integrations
APPROVED

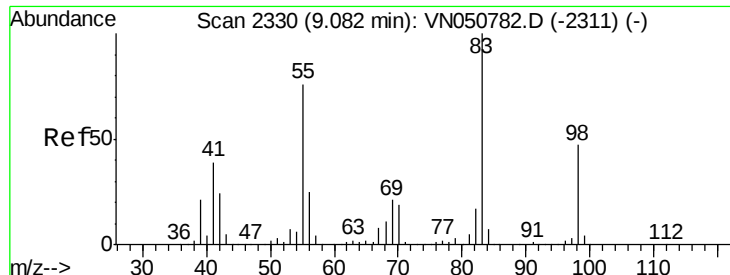
MMDadoda
8/29/2018 11:10:30 AM



#38
Carbon Tetrachloride
Concen: 48.41 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.3	114.5
121	31.3	24.6	36.8





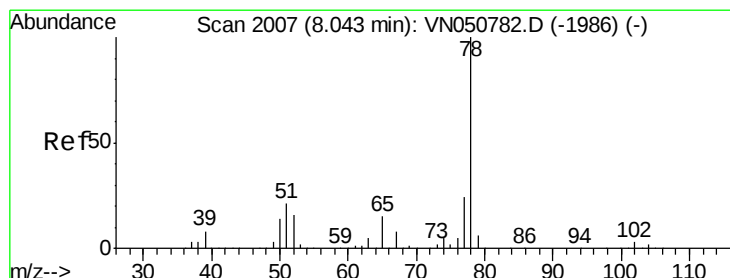
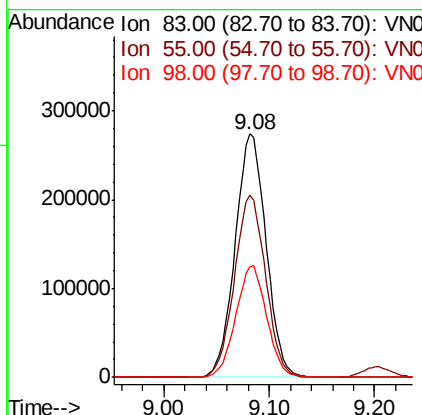
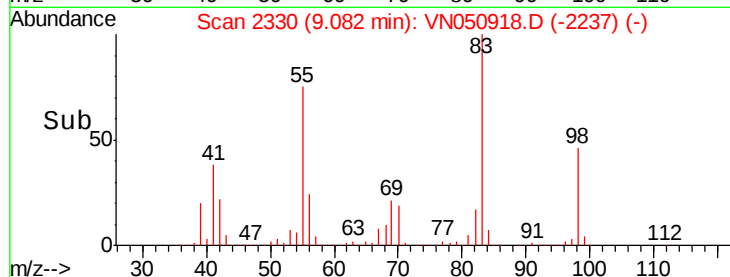
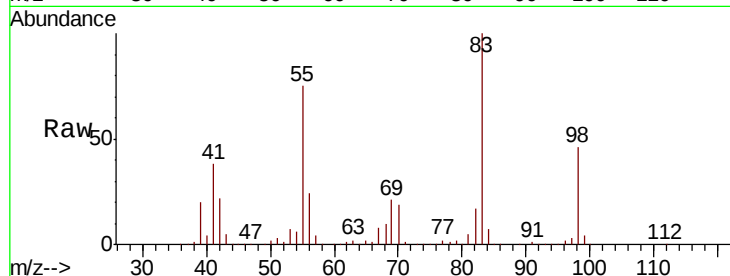
#39
Methvlcvclohexane
Concen: 50.30 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	74.6	61.0	91.4	
98	45.6	37.5	56.3	

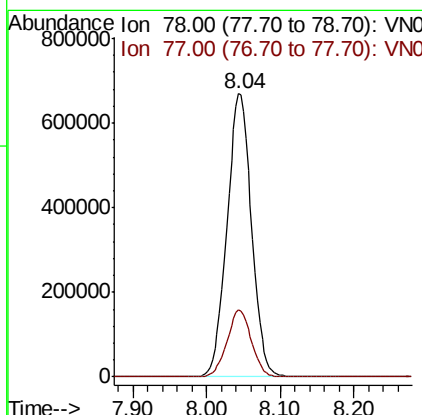
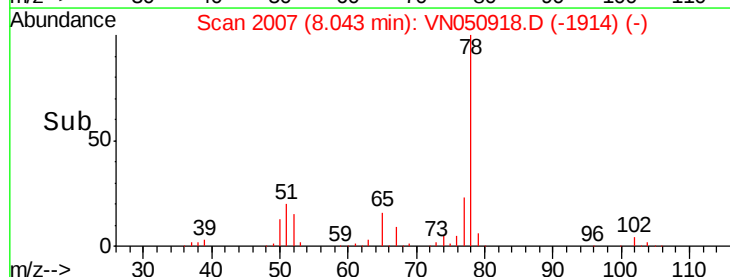
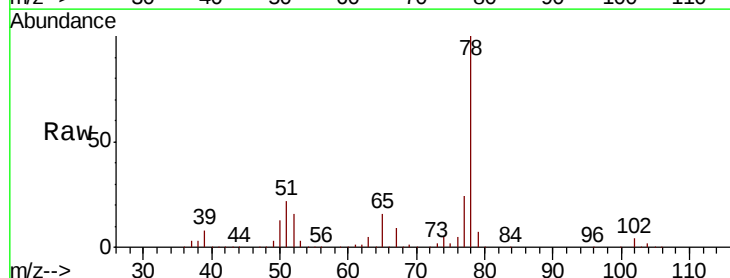
Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#40
Benzene
Concen: 49.84 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.6	19.0	28.4	





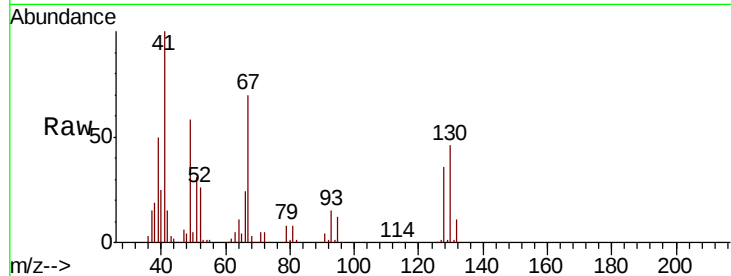
#41
Methacrylonitrile
Concen: 61.85 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

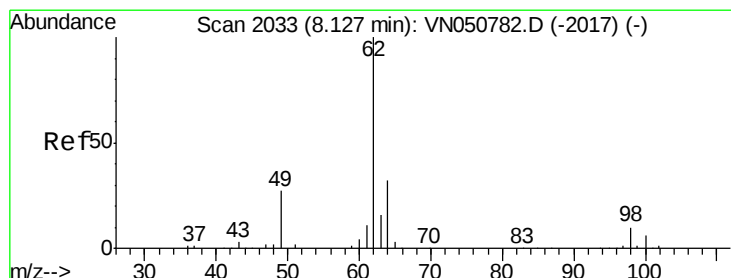
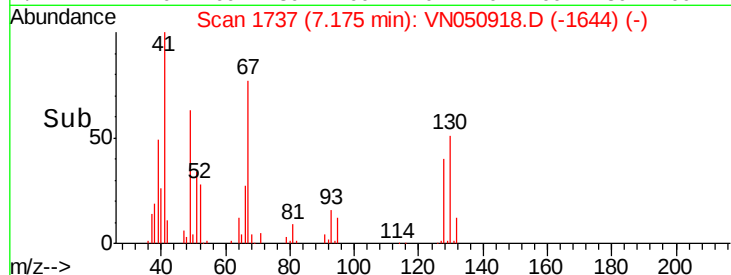
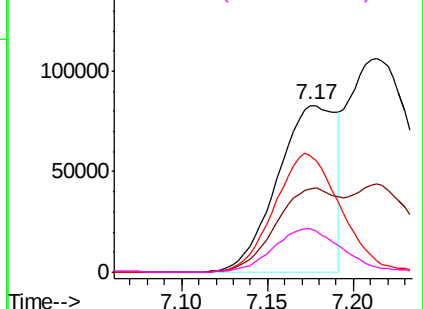
Tot Ion	41	Resp	197468
Ion Ratio	Lower	Upper	
41	100		
39	54.4	45.4	68.0
67	80.6	70.6	106.0
52	30.4	27.1	40.7

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM

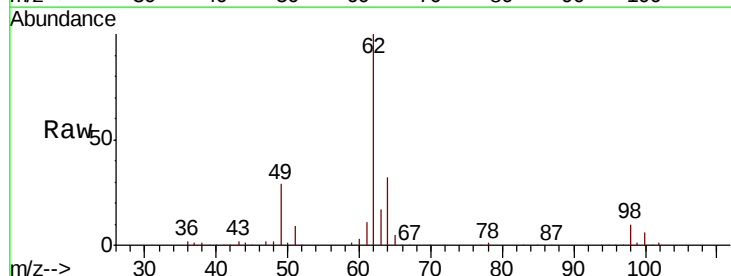


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

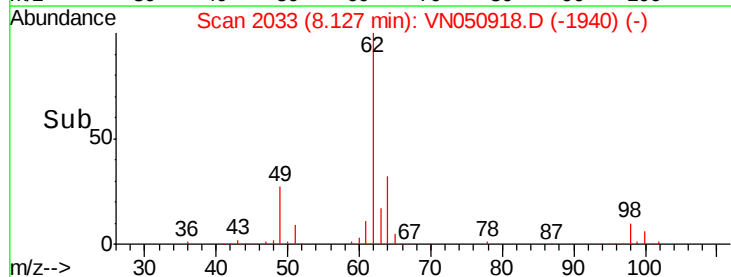
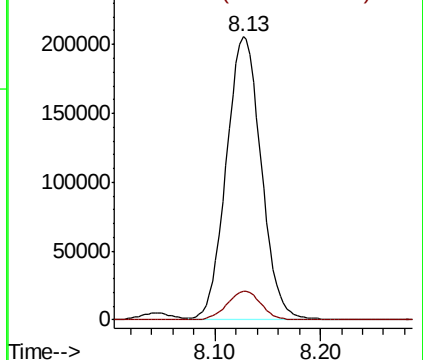


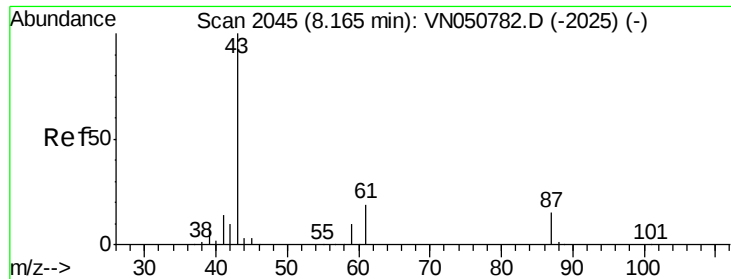
#42
1,2-Dichloroethane
Concen: 50.71 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	62	Resp	469509
Ion Ratio	Lower	Upper	
62	100		
98	10.0	0.0	19.6



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 57.72 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

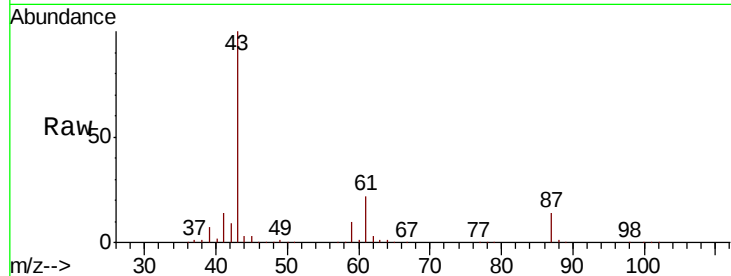
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	585518
Ion Ratio	Lower	Upper	
43	100		
61	30.0	17.5	26.3#
87	14.4	11.3	16.9

Manual Integrations
APPROVED

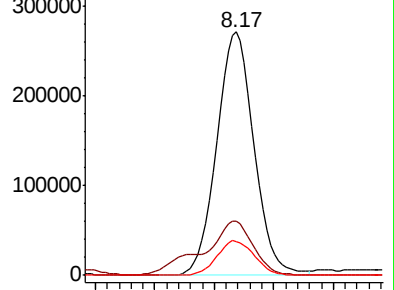
MMDadoda
8/29/2018 11:10:30 AM



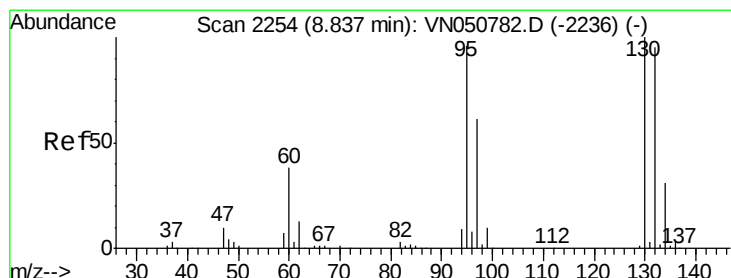
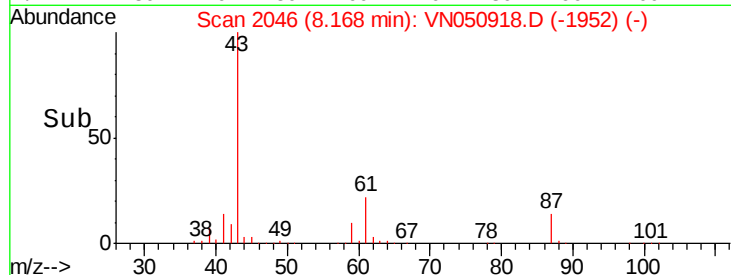
Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2025) (-)

Ion 61.00 (60.70 to 61.70): VN050782.D (-2025) (-)

Ion 87.00 (86.70 to 87.70): VN050782.D (-2025) (-)



Time-->



#44

Trichloroethene

Concen: 49.51 ug/l

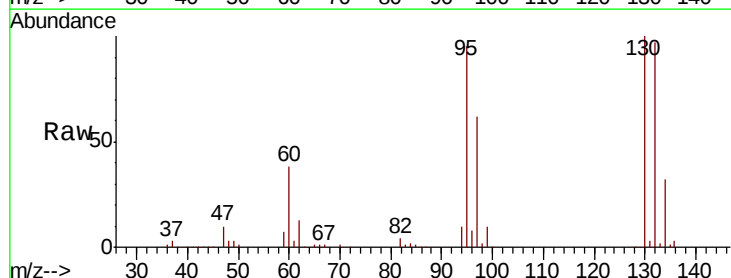
RT: 8.84 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VN050918.D

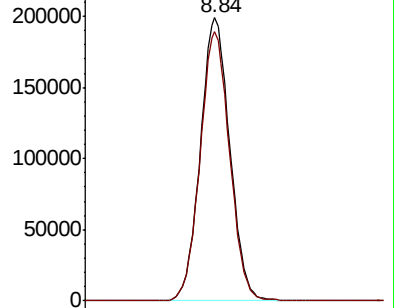
Acq: 28 Aug 2018 16:59

Tgt Ion:	130	Resp:	404376
Ion Ratio	Lower	Upper	
130	100		
95	95.3	0.0	193.0

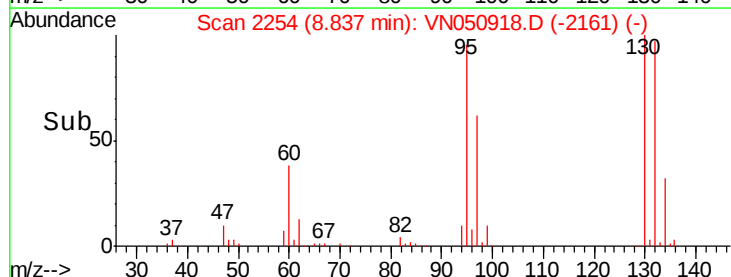


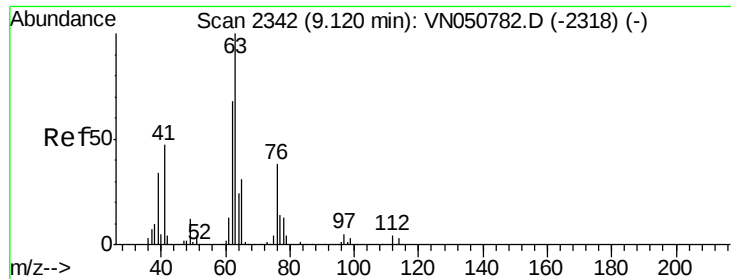
Abundance Ion 129.80 (129.50 to 130.50): VN050918.D (-2161) (-)

Ion 94.90 (94.60 to 95.60): VN050918.D (-2161) (-)



Time-->





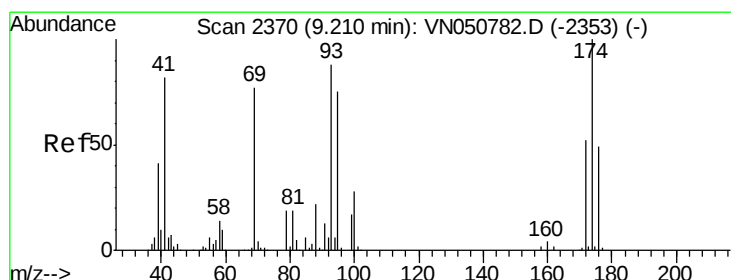
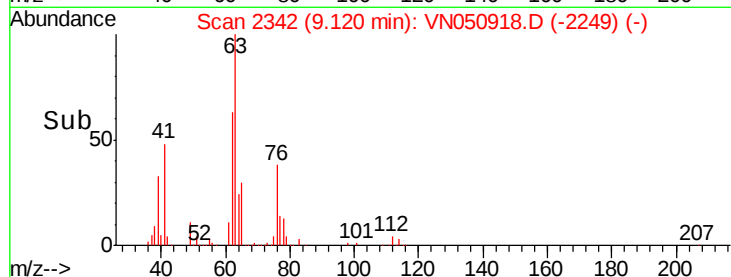
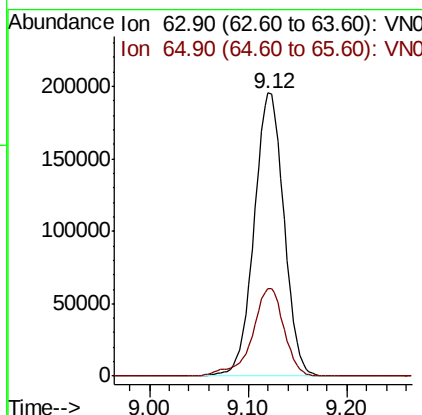
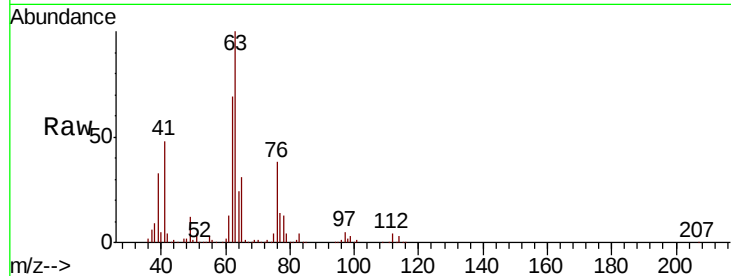
#45
 1,2-Dichloropropane
 Concen: 49.93 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 406382
 Ion Ratio Lower Upper
 63 100
 65 30.8 25.0 37.6

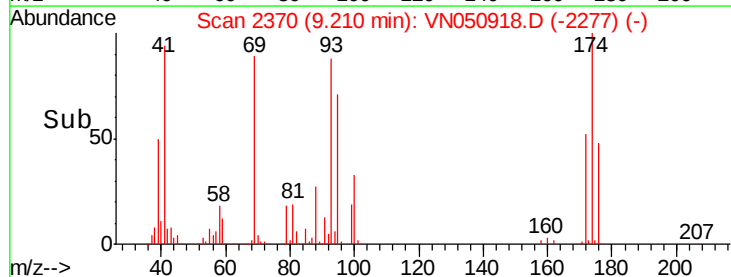
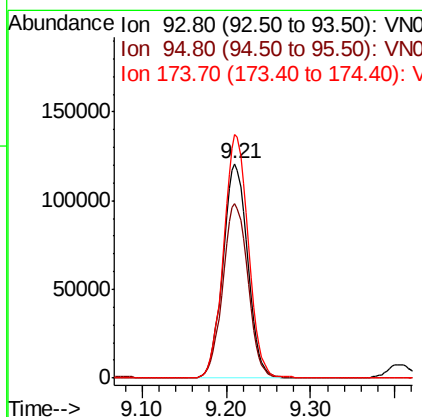
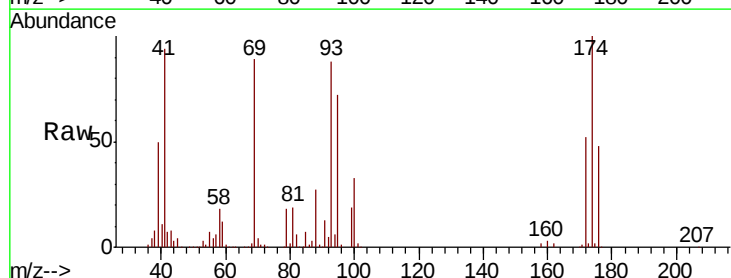
Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:30 AM



#46
 Dibromomethane
 Concen: 51.59 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion: 93 Resp: 246723
 Ion Ratio Lower Upper
 93 100
 95 82.7 66.7 100.1
 174 113.3 89.8 134.6





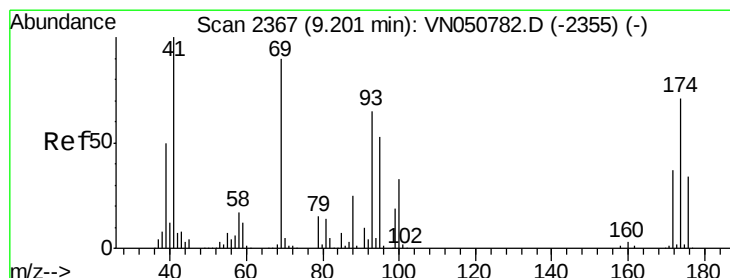
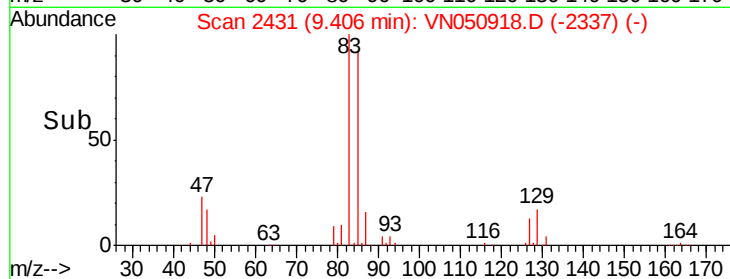
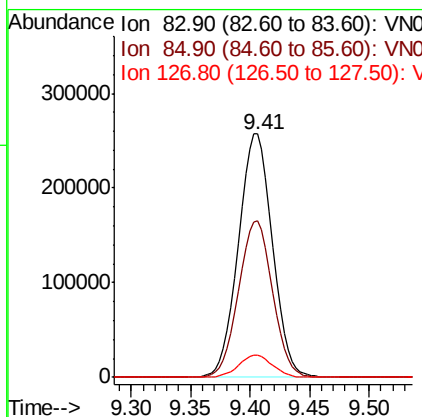
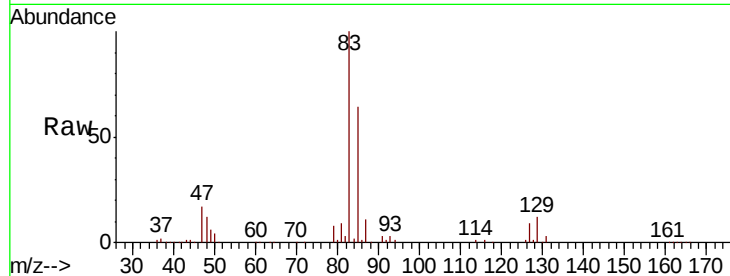
#47
Bromodichloromethane
Concen: 50.99 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	510713		
85	64.2		52.6	78.8
127	8.9		7.2	10.8

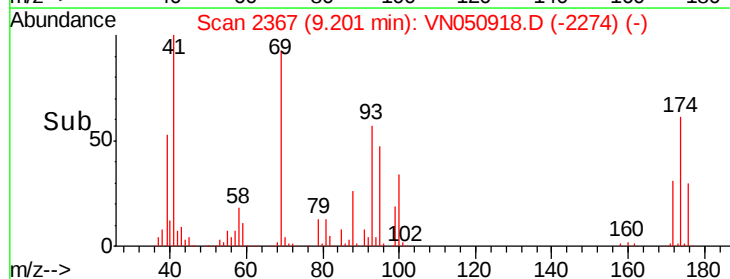
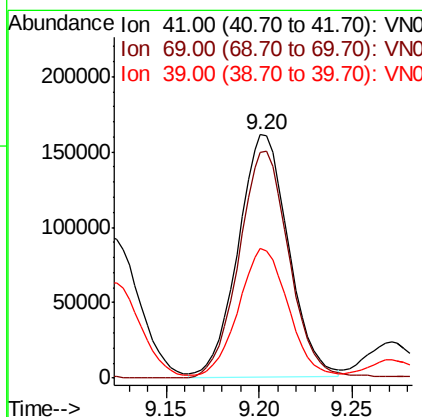
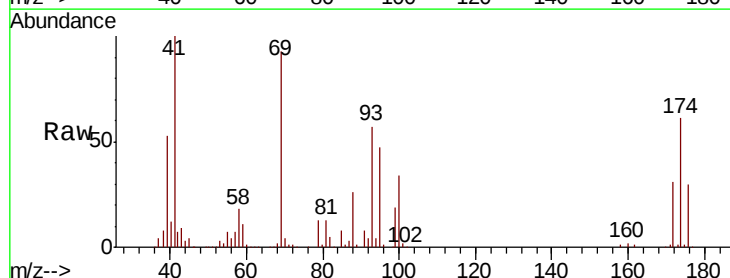
Manual Integrations
APPROVED

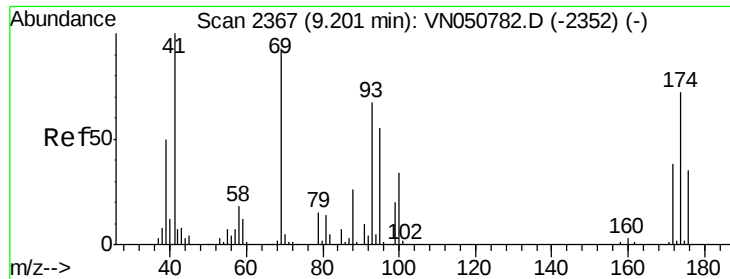
MMDadoda
8/29/2018 11:10:30 AM



#48
Methyl methacrylate
Concen: 58.73 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	303580		
69	94.0		74.7	112.1
39	53.0		42.2	63.2





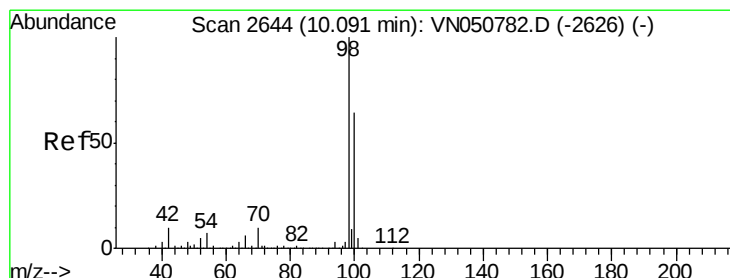
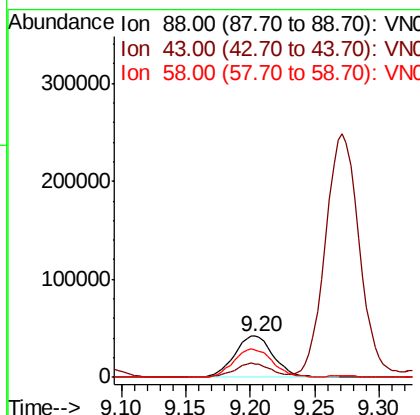
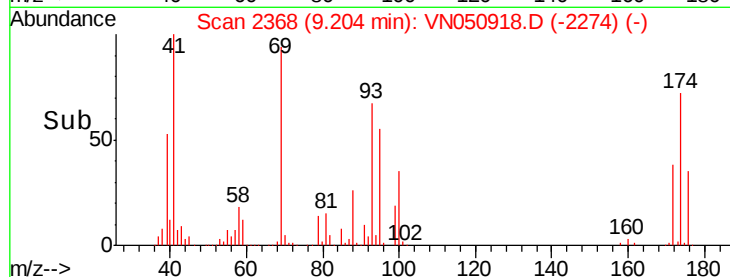
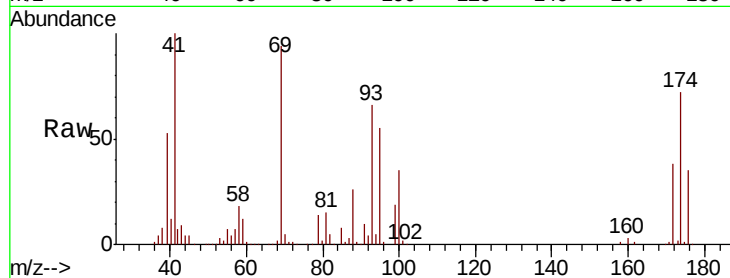
#49
 1,4-Dioxane
 Concen: 1253.02 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.8	25.9	38.9
58	69.1	55.0	82.4

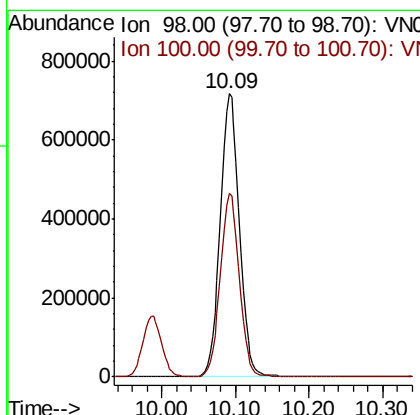
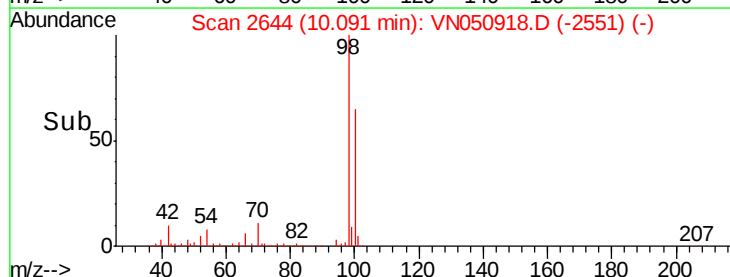
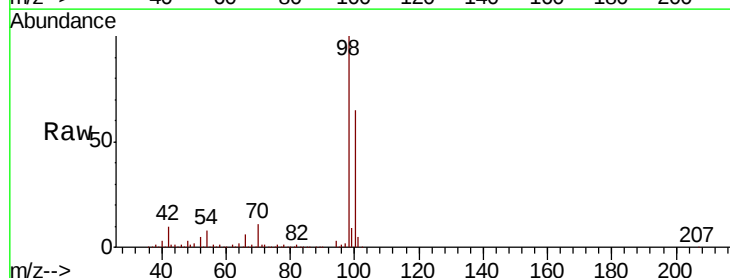
Manual Integrations
 APPROVED

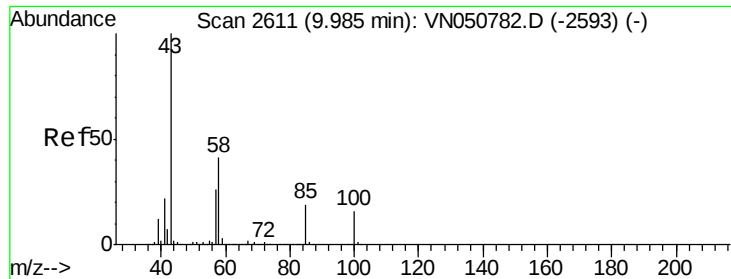
MMDadoda
 8/29/2018 11:10:30 AM



#50
 Toluene-d8
 Concen: 50.00 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.5	77.3





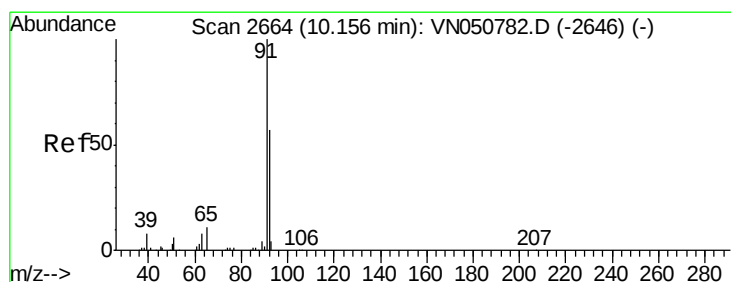
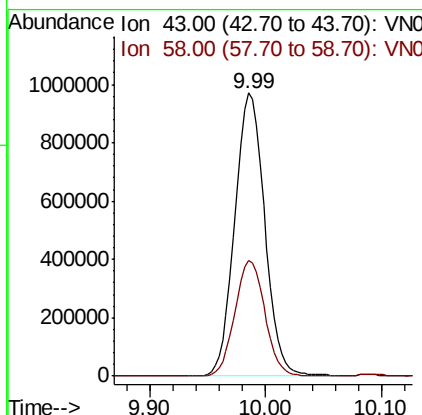
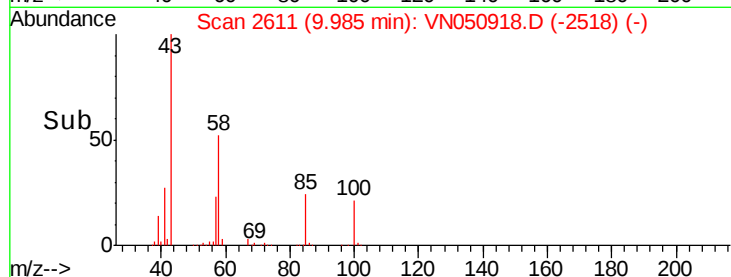
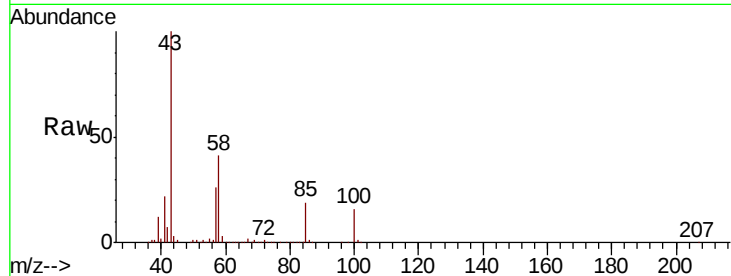
#51
 4-Methyl-2-Pentanone
 Concen: 287.00 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion: 43 Resp: 1737242
 Ion Ratio Lower Upper
 43 100
 58 41.1 32.4 48.6

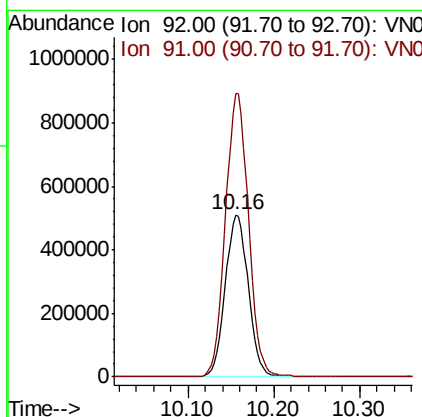
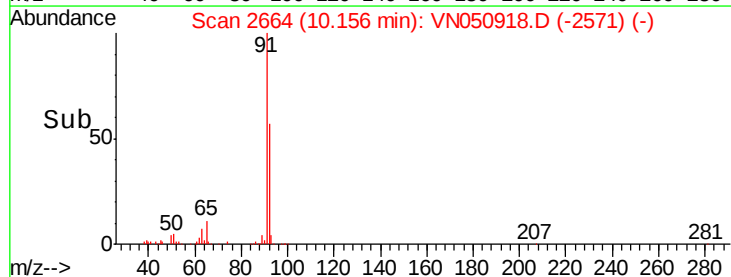
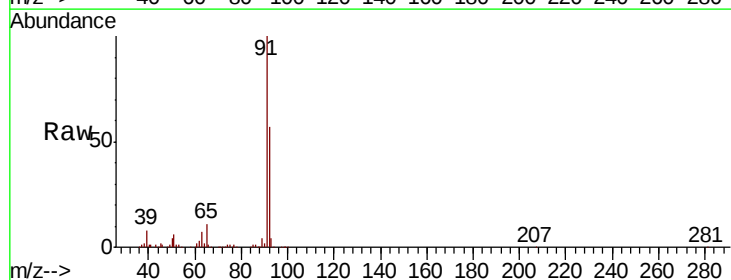
Manual Integrations
 APPROVED

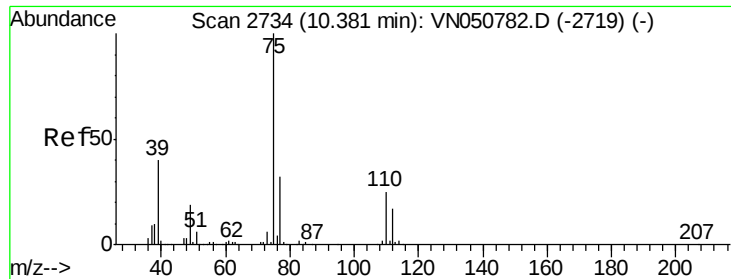
MMDadoda
 8/29/2018 11:10:30 AM



#52
 Toluene
 Concen: 51.86 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion: 92 Resp: 951492
 Ion Ratio Lower Upper
 92 100
 91 175.1 140.6 211.0





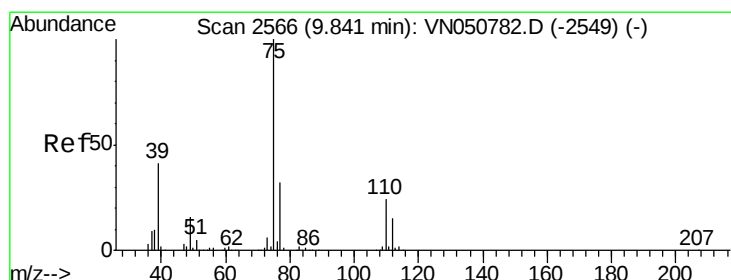
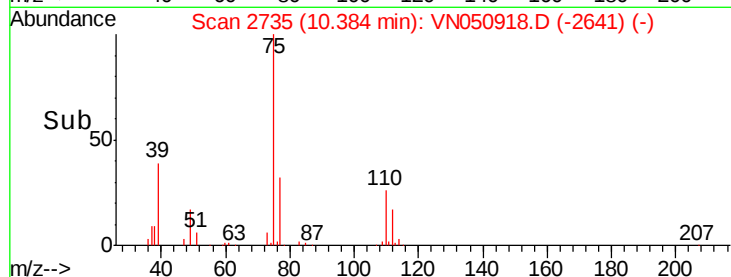
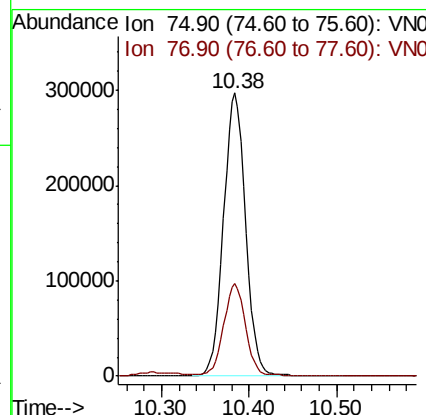
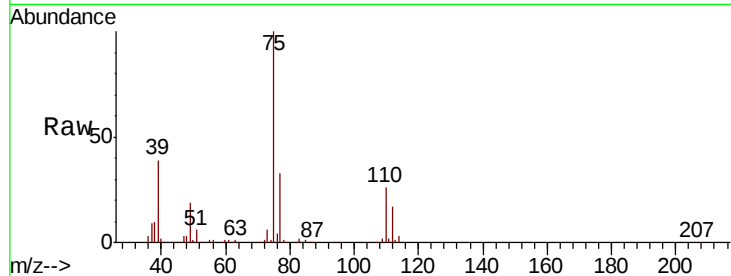
#53
t-1,3-Dichloropropene
Concen: 52.14 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 519839
Ion Ratio Lower Upper
75 100
77 32.4 25.7 38.5

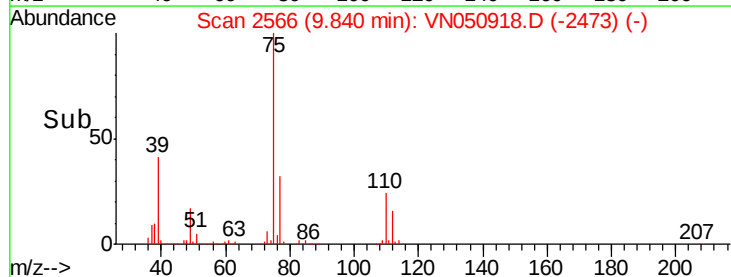
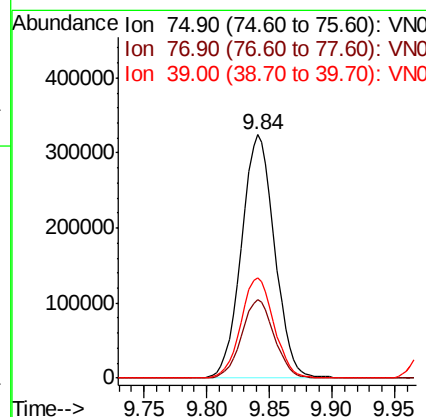
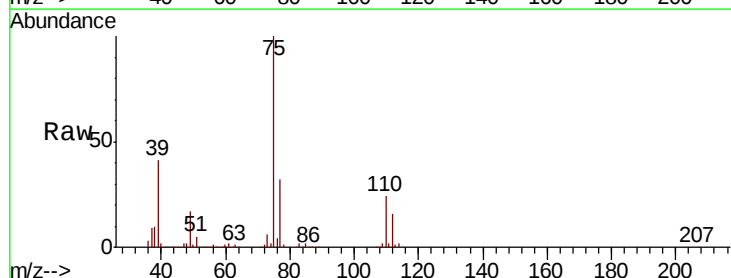
Manual Integrations
APPROVED

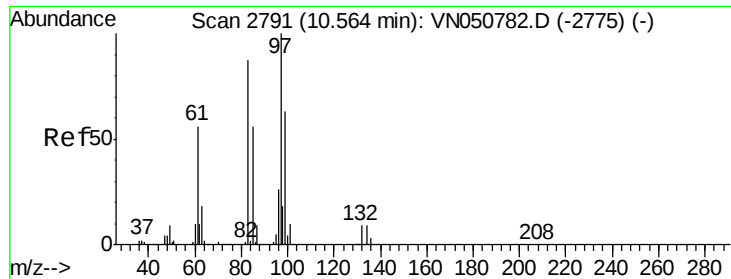
MMDadoda
8/29/2018 11:10:30 AM



#54
cis-1,3-Dichloropropene
Concen: 52.11 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion: 75 Resp: 594979
Ion Ratio Lower Upper
75 100
77 32.3 25.4 38.2
39 41.2 33.0 49.4





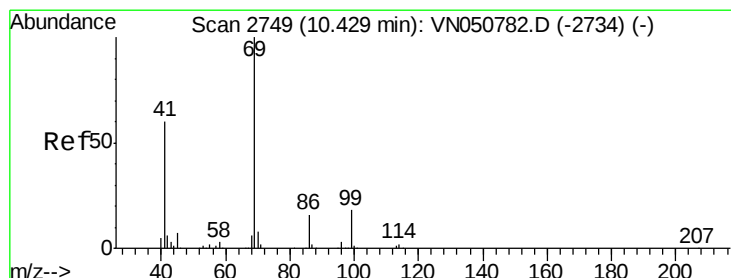
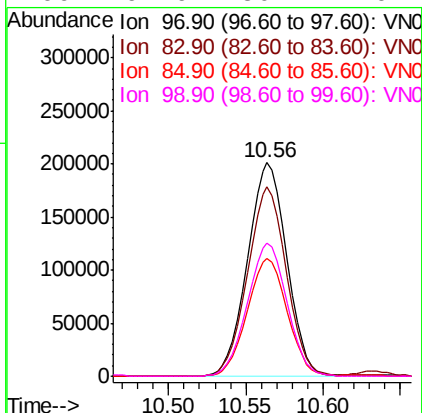
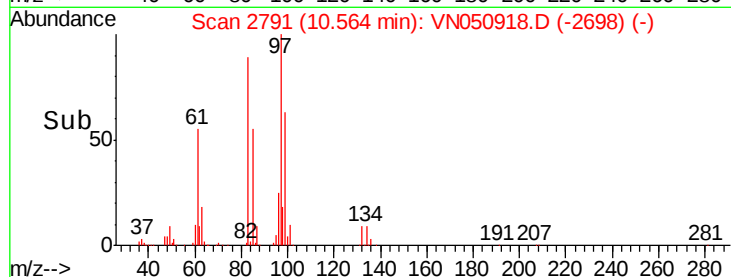
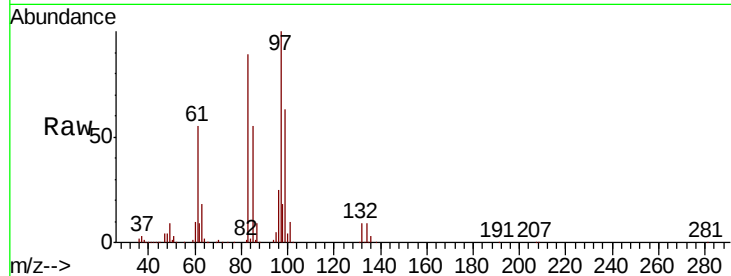
#55
 1,1,2-Trichloroethane
 Concen: 52.24 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		355684		
83	88.6	69.7	104.5		
85	55.3	44.5	66.7		
99	62.6	50.7	76.1		

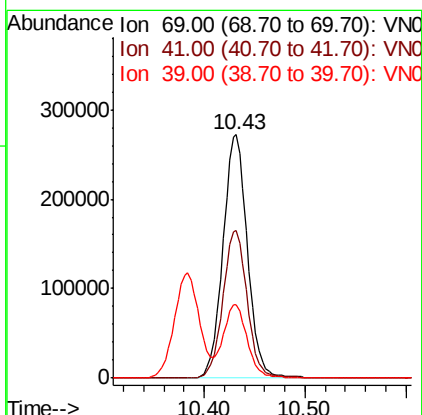
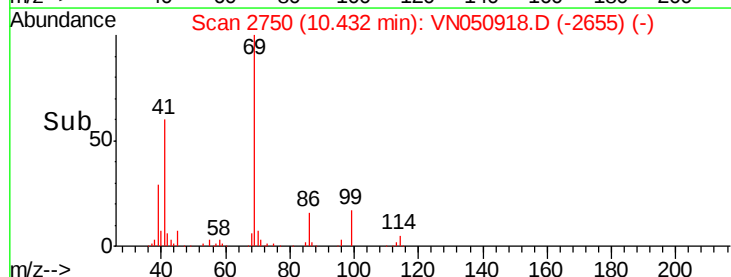
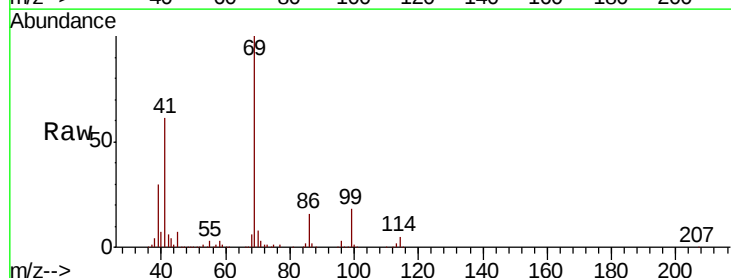
Manual Integrations
 APPROVED

MMDadoda
 8/29/2018 11:10:30 AM



#56
 Ethyl methacrylate
 Concen: 51.97 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		461192		
41	60.2	48.3	72.5		
39	29.3	24.0	36.0		





#57

1,3-Dichloropropane

Concen: 53.47 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 600970

Ion Ratio Lower Upper

76 100

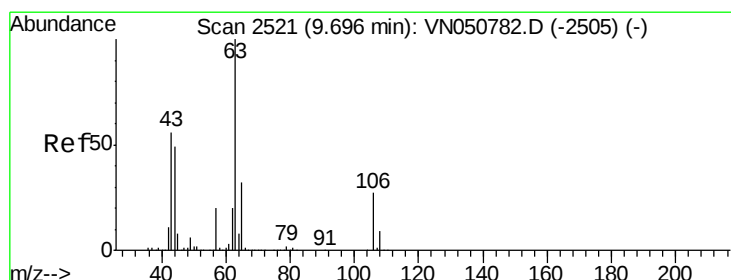
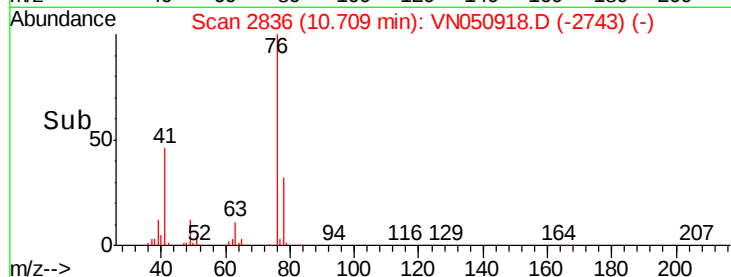
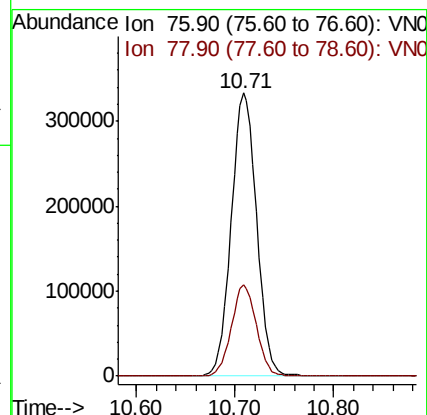
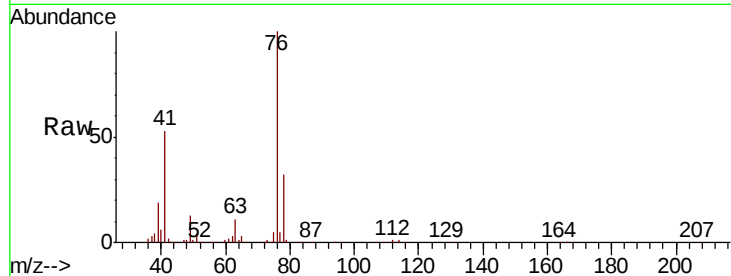
78 31.7 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:30 AM



#58

2-Chloroethyl Vinyl ether

Concen: 252.62 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN050918.D

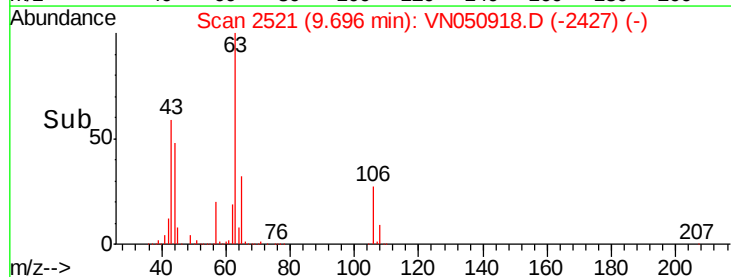
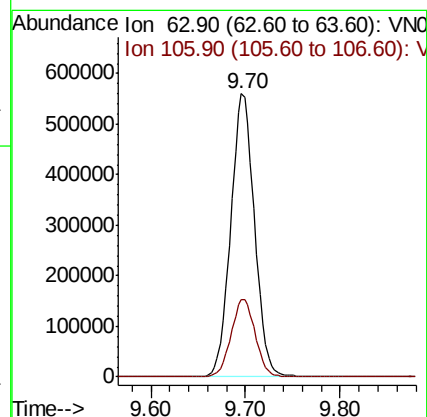
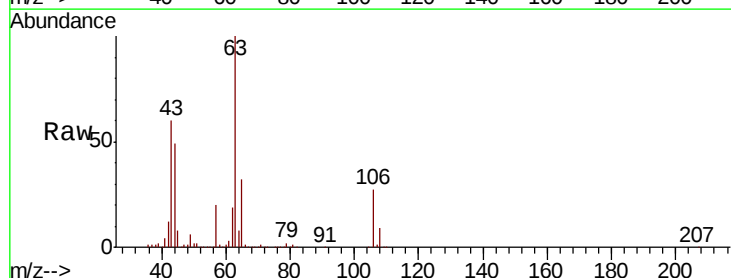
Acq: 28 Aug 2018 16:59

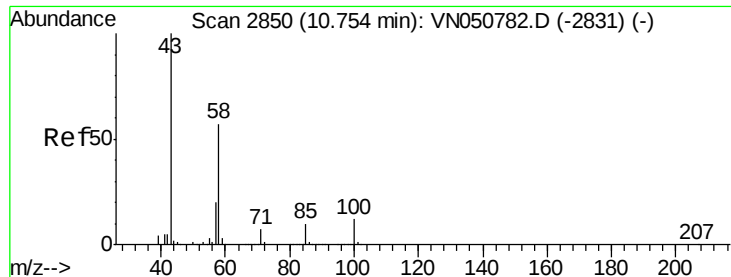
Tgt Ion: 63 Resp: 976920

Ion Ratio Lower Upper

63 100

106 27.9 21.9 32.9





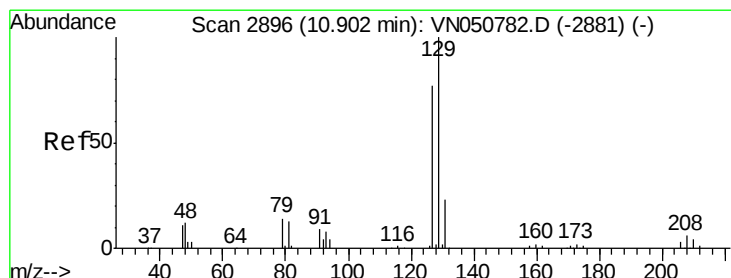
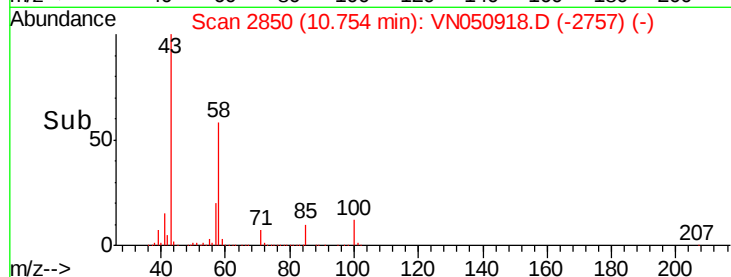
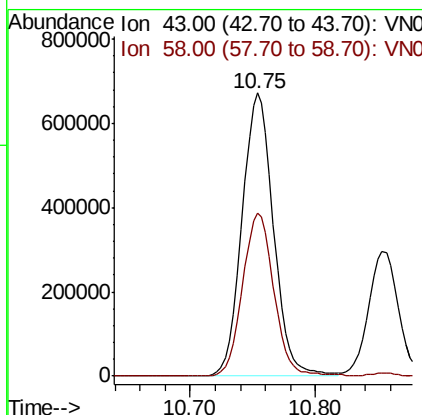
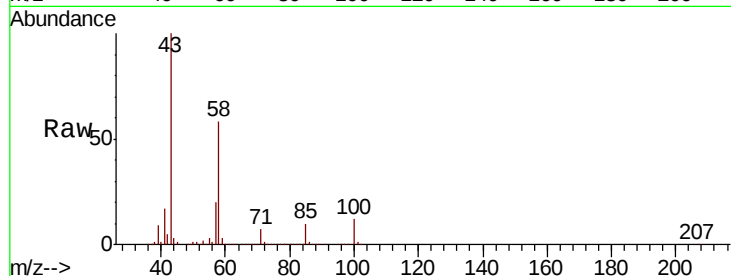
#59
2-Hexanone
Concen: 290.40 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1170199
Ion Ratio Lower Upper
43 100
58 57.7 28.3 85.0

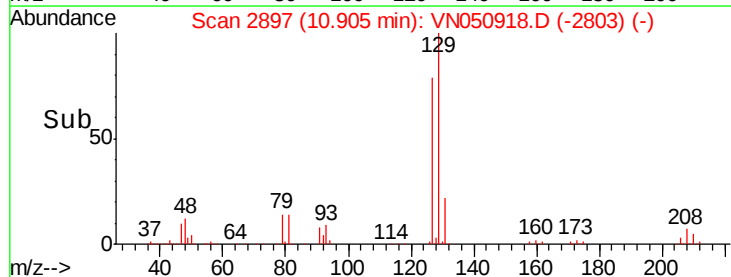
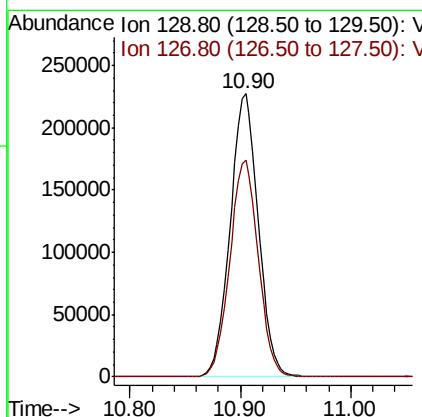
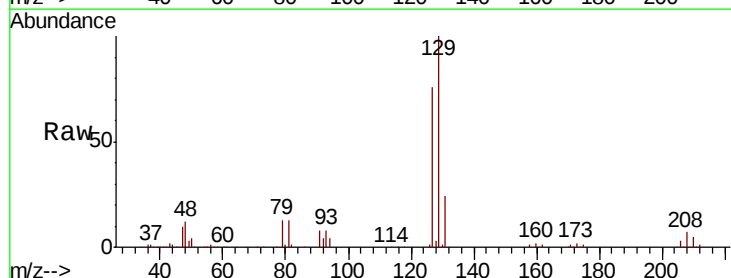
Manual Integrations
APPROVED

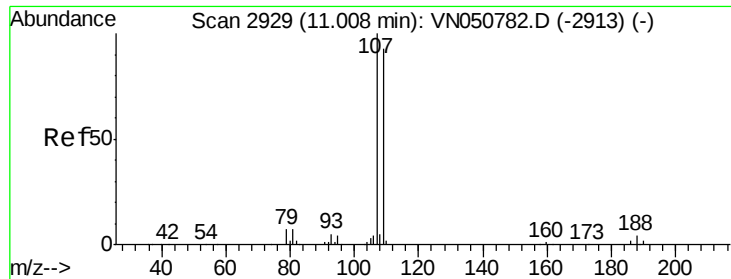
MMDadoda
8/29/2018 11:10:30 AM



#60
Dibromochloromethane
Concen: 52.66 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion: 129 Resp: 401486
Ion Ratio Lower Upper
129 100
127 77.6 38.3 114.9





#61

1,2-Dibromoethane

Concen: 53.47 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 352037

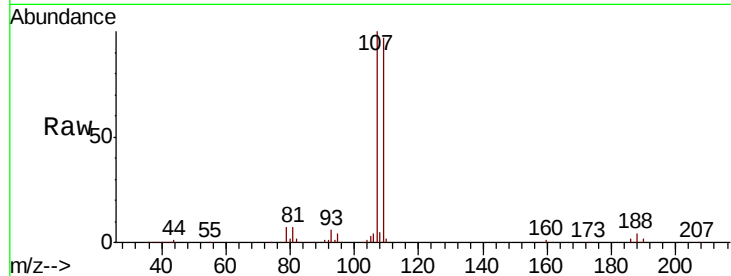
Ion Ratio Lower Upper

107 100

109 96.0 75.4 113.2

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

200000

150000

100000

50000

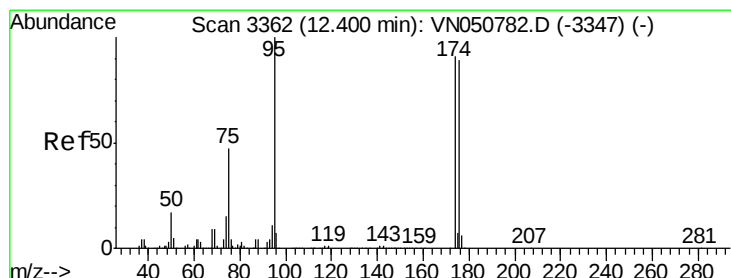
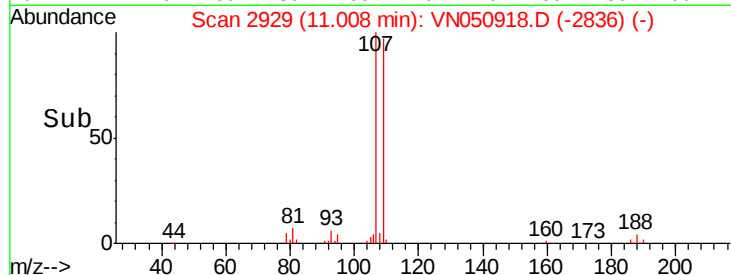
0

Time-->

10.90

11.00

11.10



#62

4-Bromofluorobenzene

Concen: 50.31 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

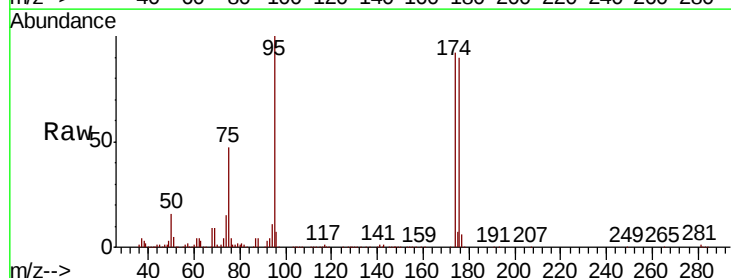
Tgt Ion: 95 Resp: 432744

Ion Ratio Lower Upper

95 100

174 91.7 0.0 183.0

176 89.4 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

300000

200000

100000

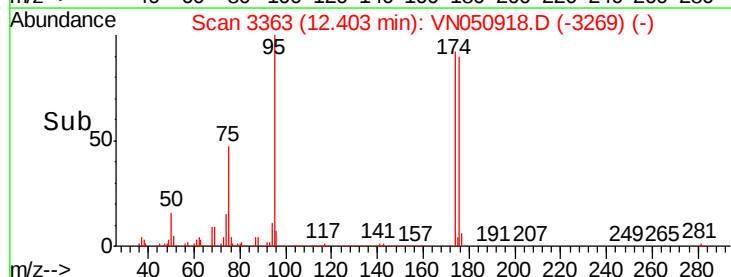
0

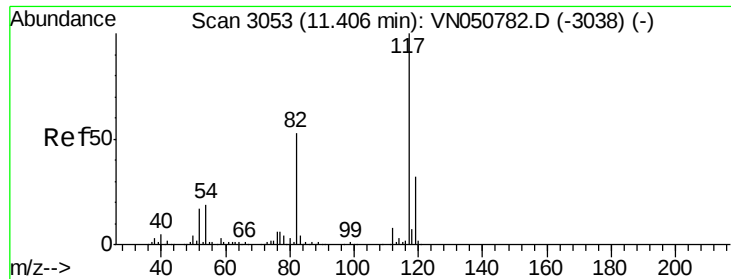
Time-->

12.35

12.40

12.45





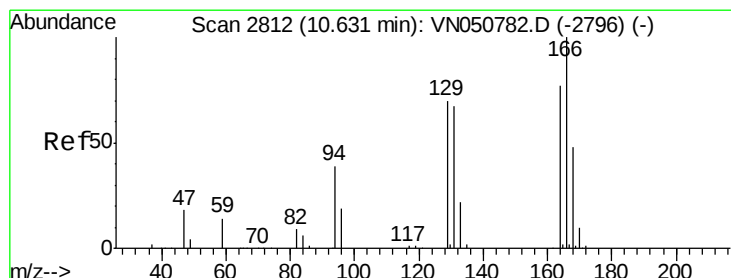
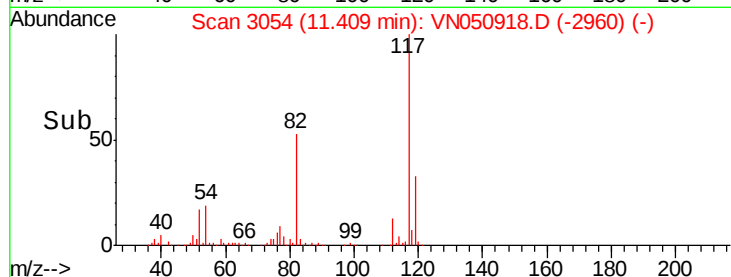
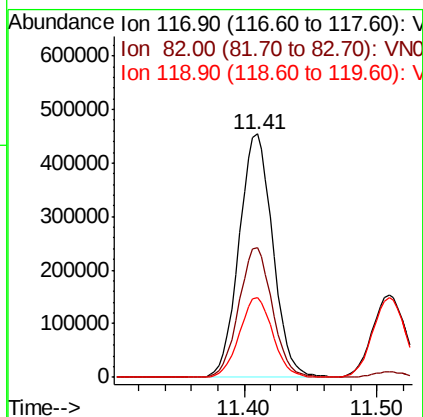
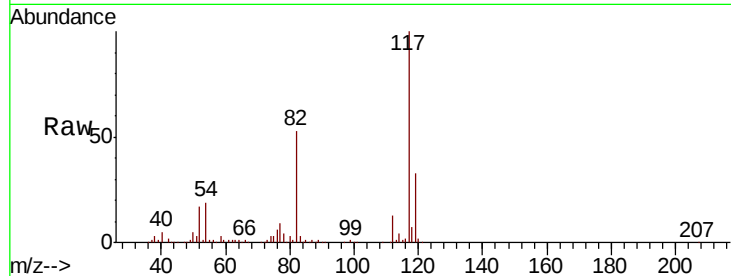
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	800931		
82	53.4		42.6	64.0
119	33.0		25.8	38.6

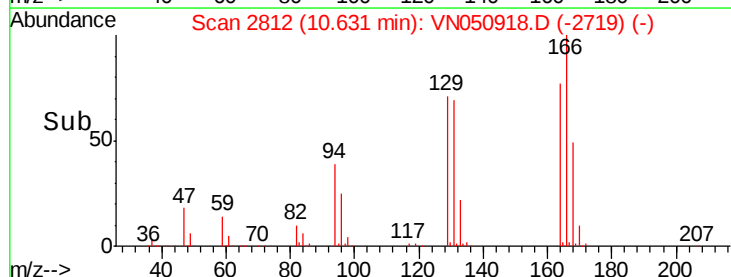
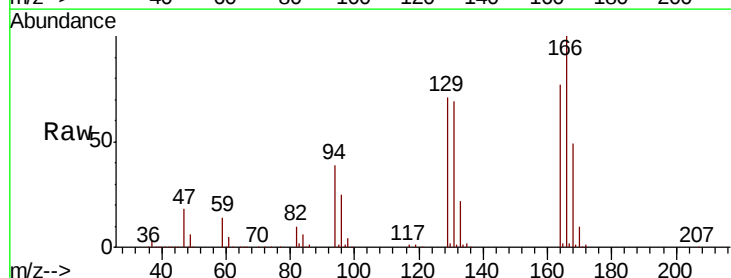
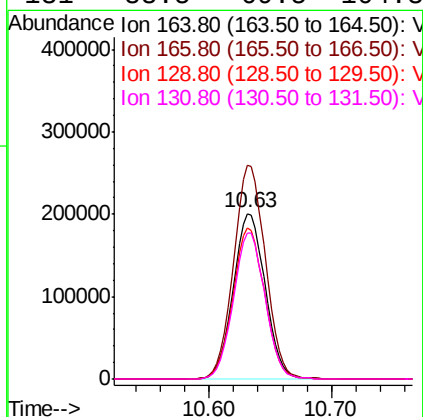
Manual Integrations
APPROVED

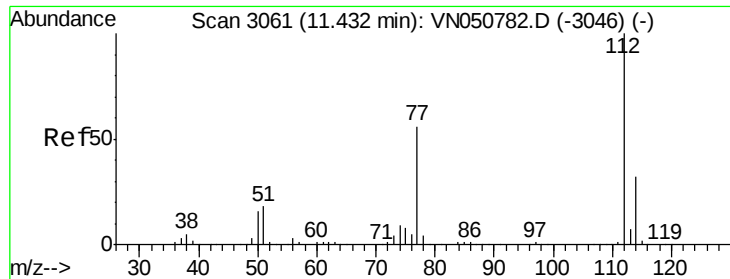
MMDadoda
8/29/2018 11:10:30 AM



#64
Tetrachloroethene
Concen: 47.85 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	363998		
166	129.3		103.5	155.3
129	91.6		72.7	109.1
131	88.5		69.5	104.3





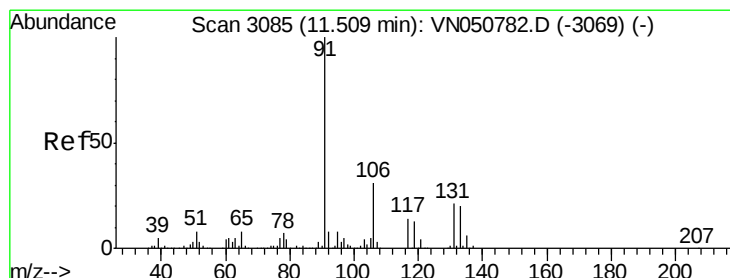
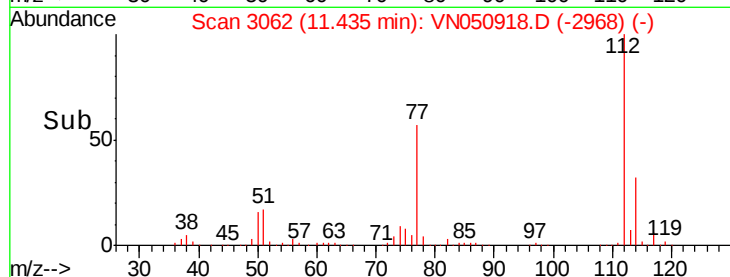
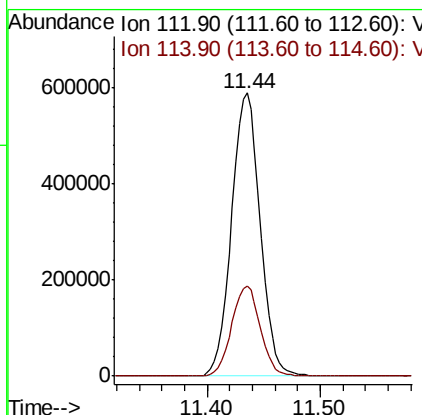
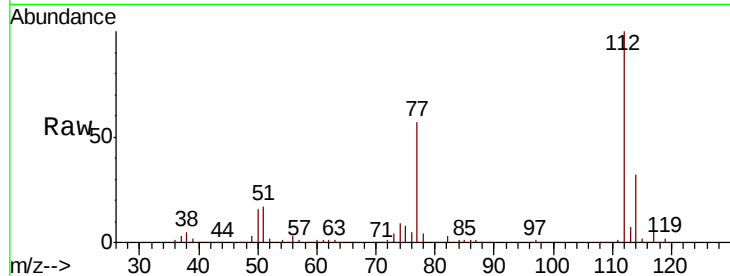
#65
Chlorobenzene
Concen: 49.53 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1036937
Ion Ratio Lower Upper
112 100
114 31.9 25.6 38.4

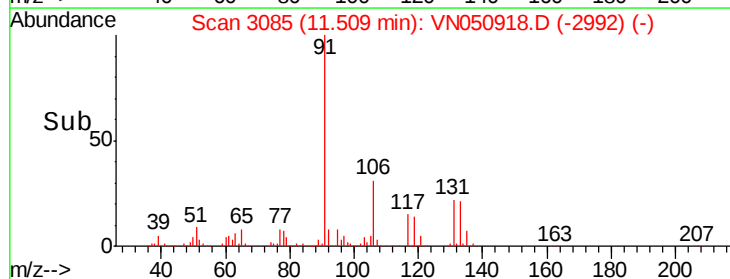
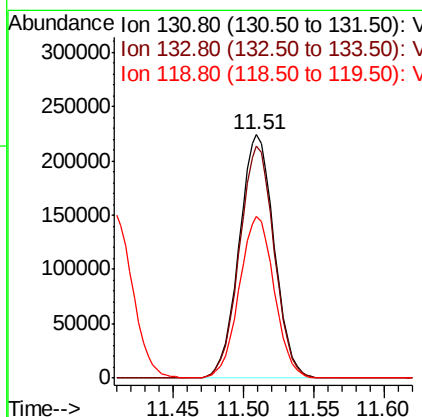
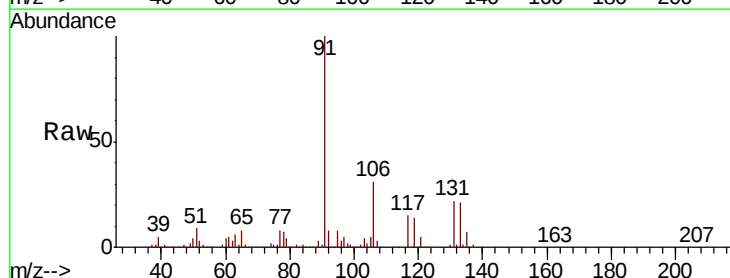
Manual Integrations
APPROVED

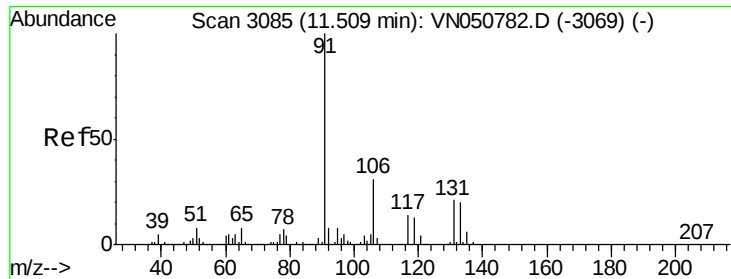
MMDadoda
8/29/2018 11:10:30 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.87 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion:131 Resp: 389625
Ion Ratio Lower Upper
131 100
133 94.9 47.4 142.3
119 66.2 32.8 98.4





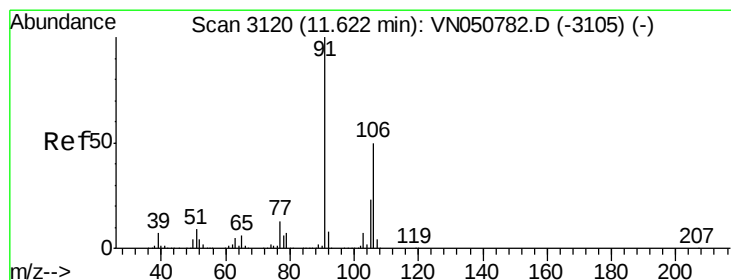
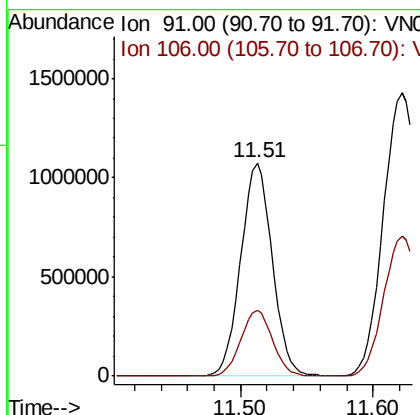
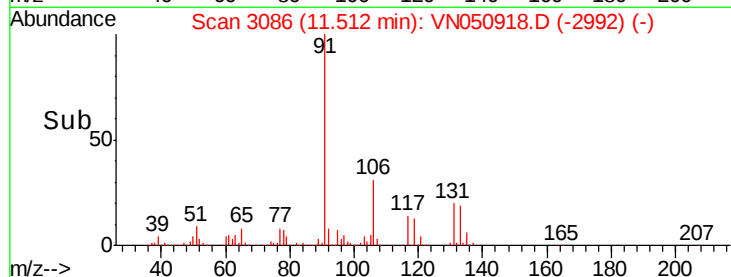
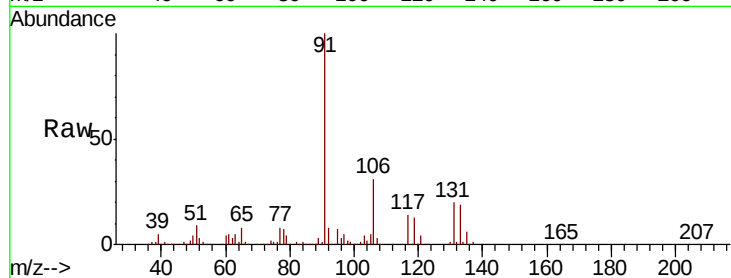
#67
Ethyl Benzene
Concen: 52.03 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1770812
Ion Ratio Lower Upper
91 100
106 31.1 25.0 37.4

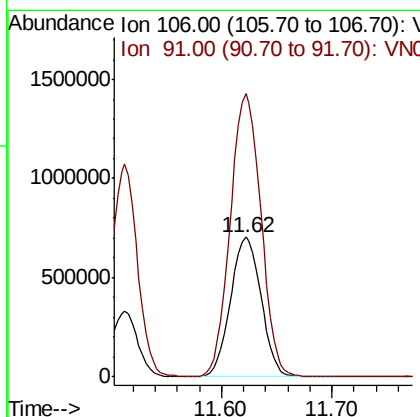
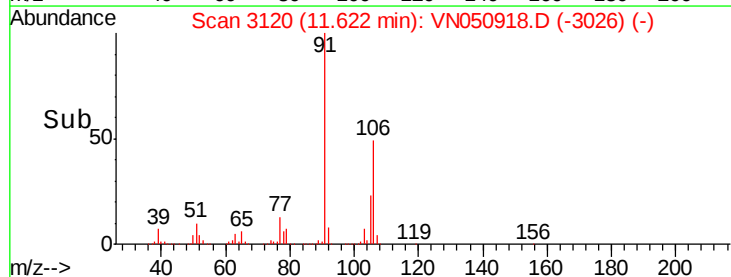
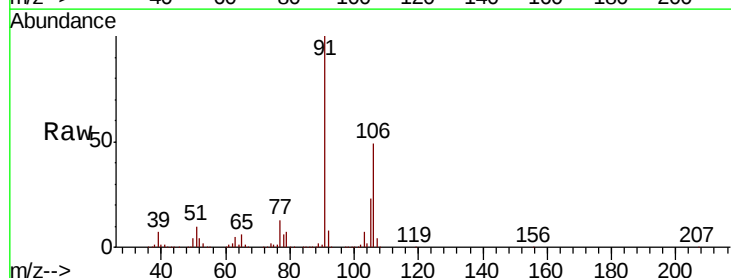
Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#68
m/p-Xylenes
Concen: 105.24 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion: 106 Resp: 1359537
Ion Ratio Lower Upper
106 100
91 202.7 161.0 241.6





#69

o-Xylene

Concen: 52.86 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:106 Resp: 656479

Ion Ratio Lower Upper

106 100

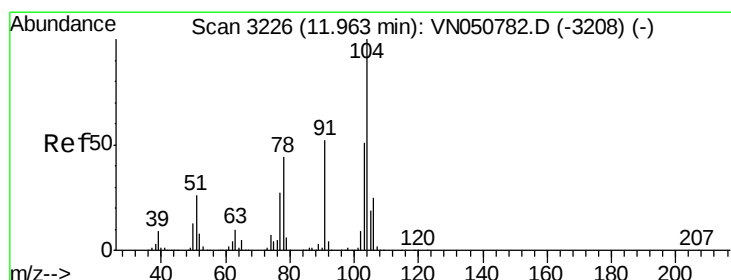
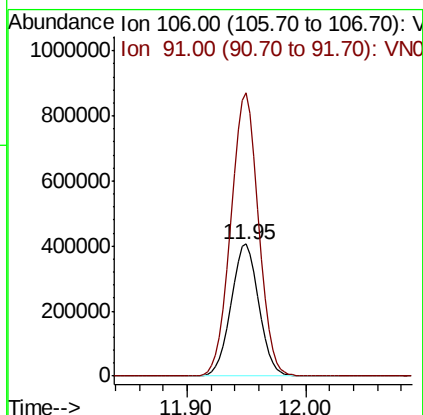
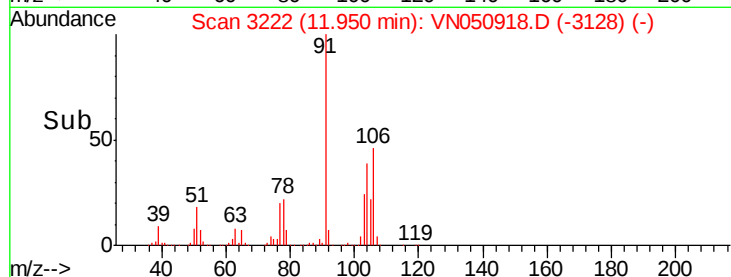
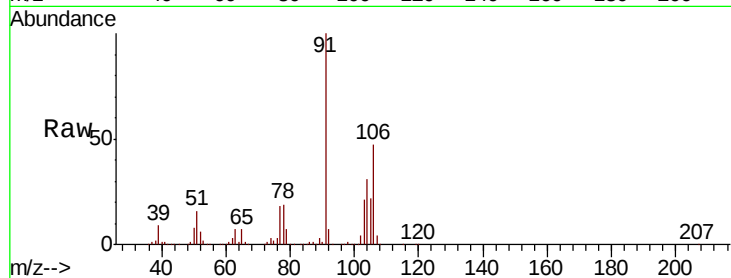
91 213.3 106.5 319.5

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:30 AM



#70

Styrene

Concen: 47.97 ug/l

RT: 11.96 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

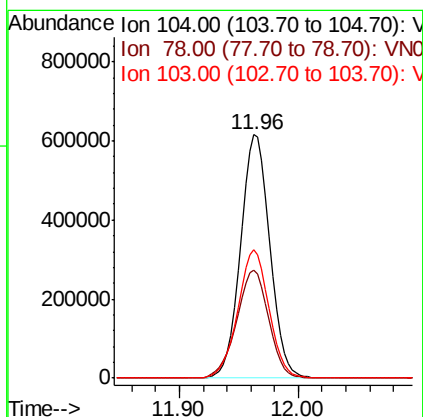
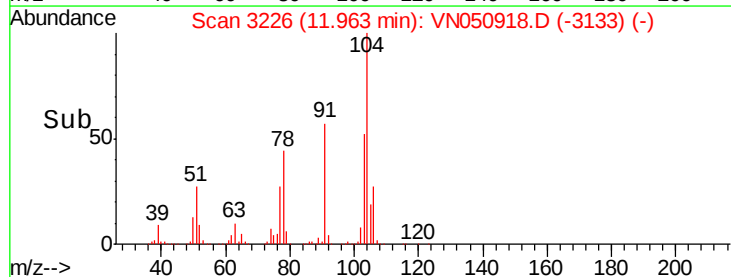
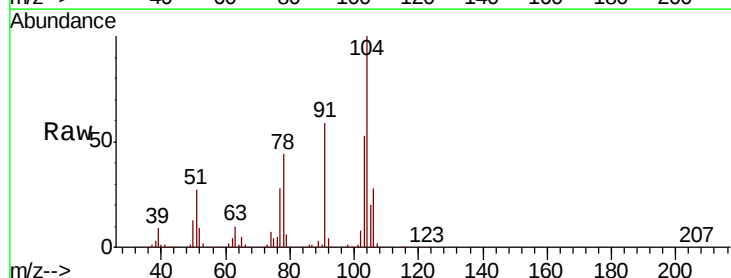
Tgt Ion:104 Resp: 1048863

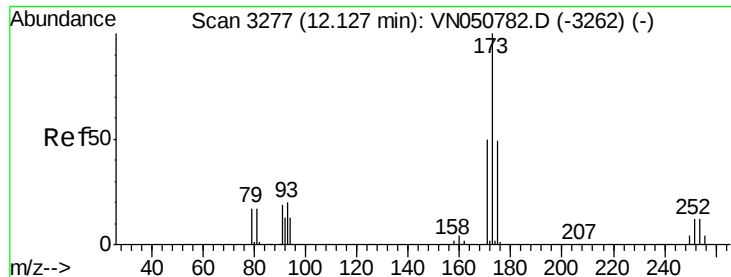
Ion Ratio Lower Upper

104 100

78 48.5 38.2 57.4

103 56.2 44.4 66.6





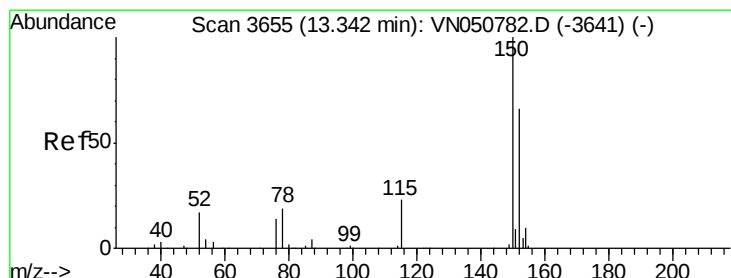
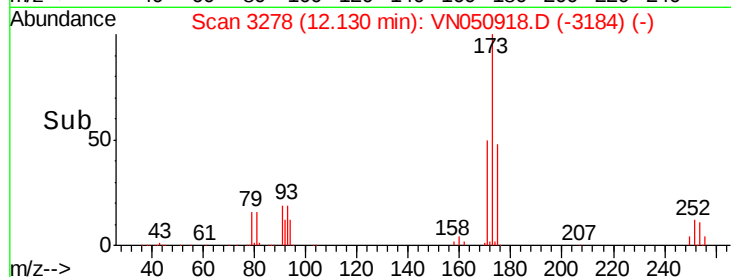
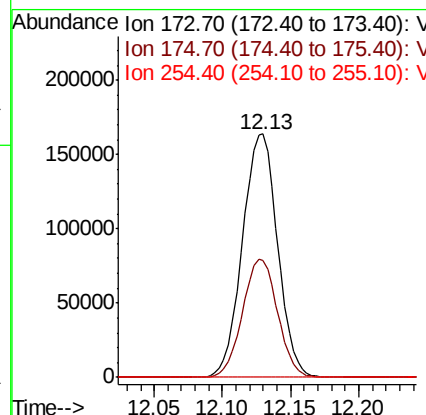
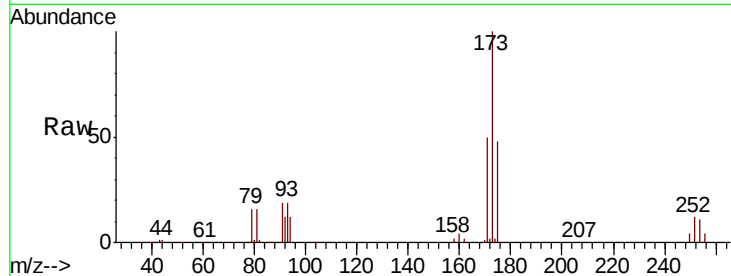
#71
Bromoform
Concen: 55.60 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.4	73.4
254	0.1	0.1	0.1

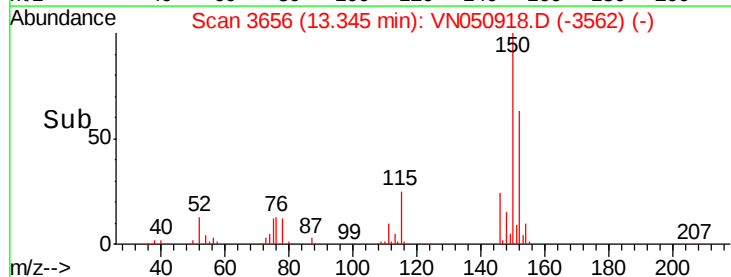
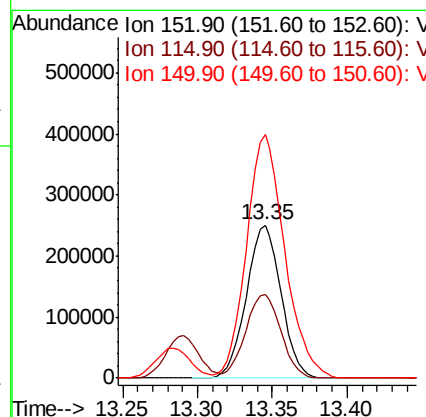
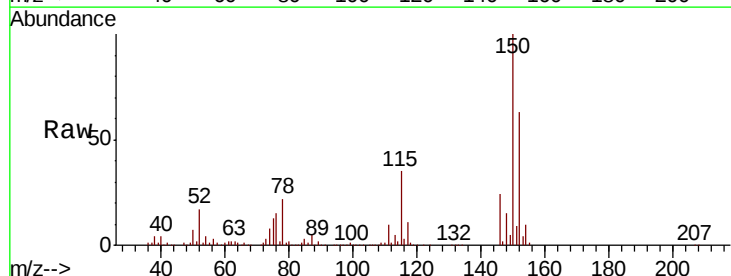
Manual Integrations
APPROVED

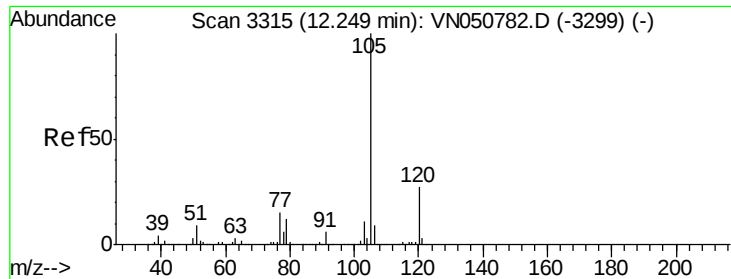
MMDadoda
8/29/2018 11:10:30 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	27.8	83.4
150	176.1	0.0	351.4





#73

Isopropylbenzene

Concen: 52.11 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1738254

Ion Ratio Lower Upper

105 100

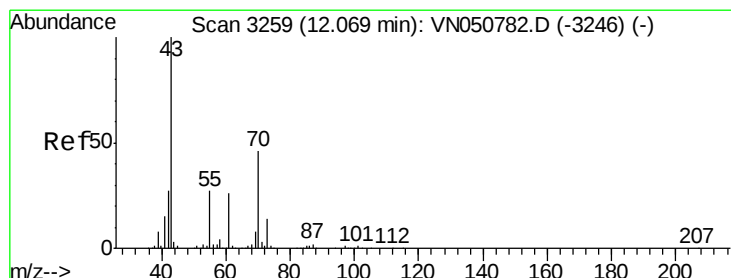
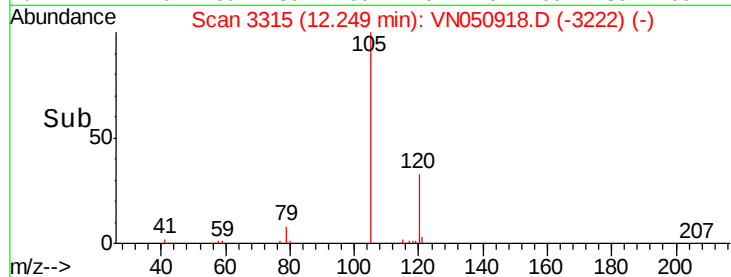
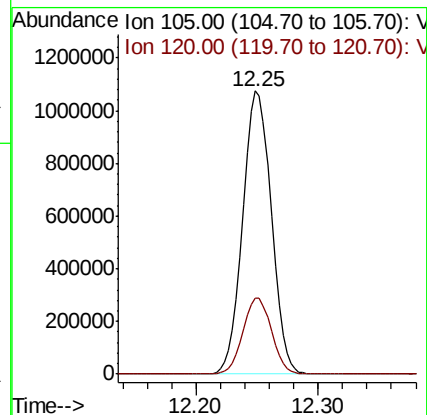
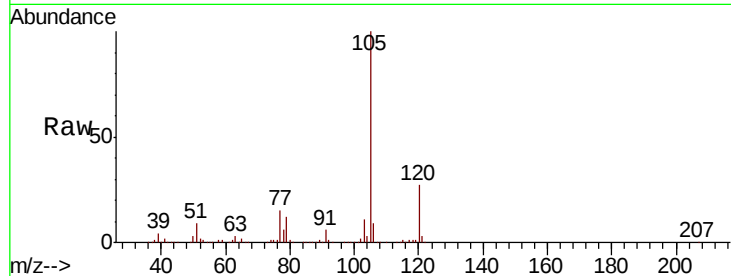
120 26.8 13.5 40.4

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:30 AM



#74

N-ethyl acetate

Concen: 57.90 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Tgt Ion: 43 Resp: 485288

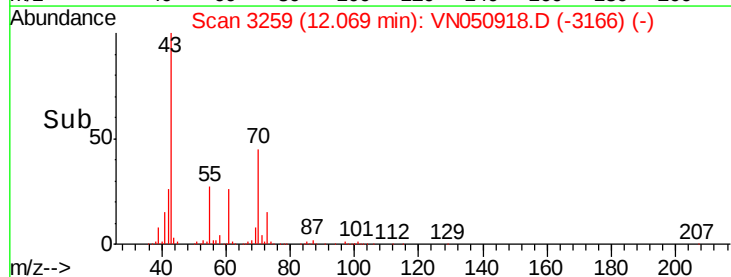
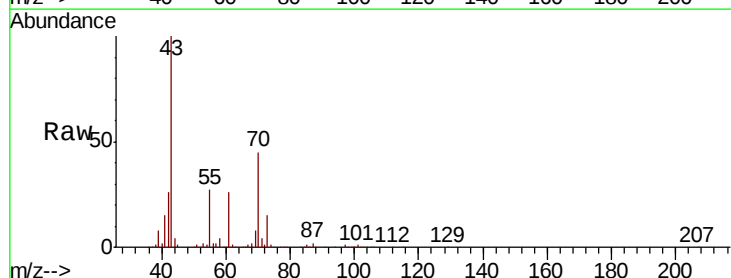
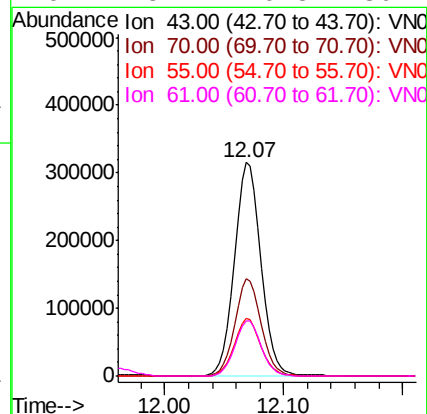
Ion Ratio Lower Upper

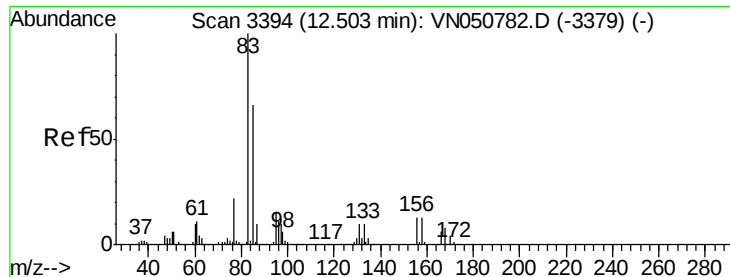
43 100

70 45.2 36.2 54.2

55 26.9 21.8 32.8

61 25.7 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 58.83 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

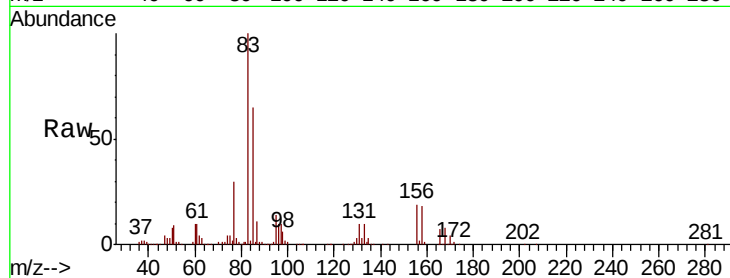
ClientSampleId :

VSTDCCC050

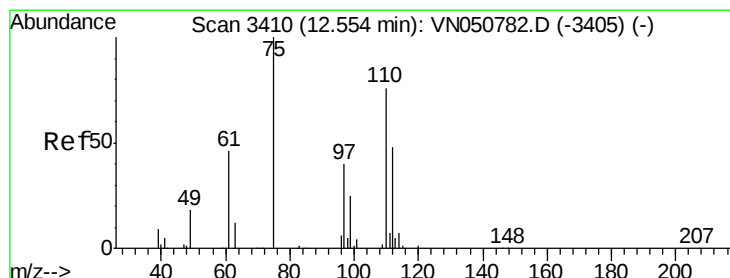
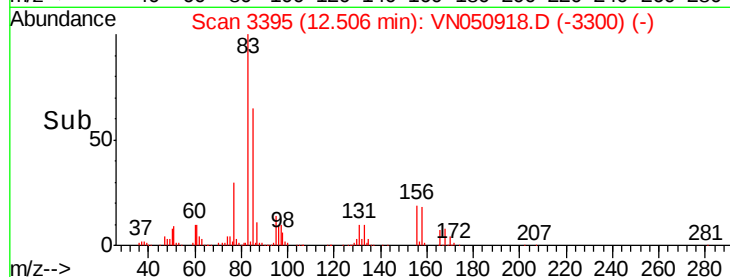
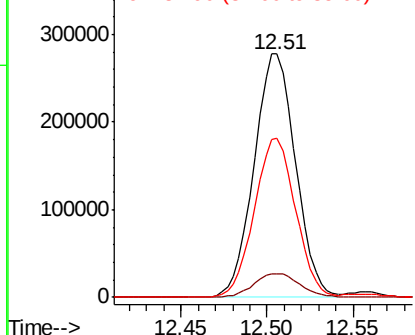
Tot Ion:	83	Resp:	465610
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.3	15.9
85	64.8	31.9	95.7

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 53.01 ug/l m

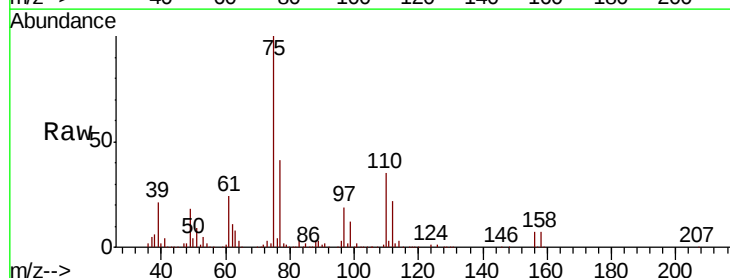
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

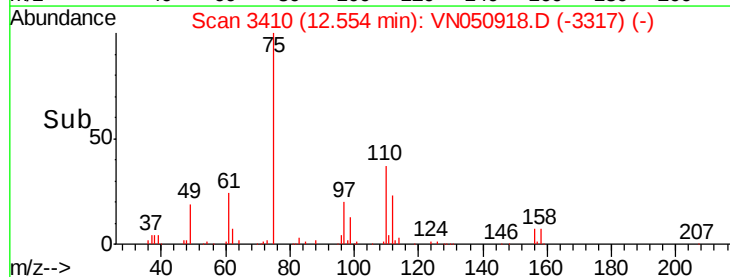
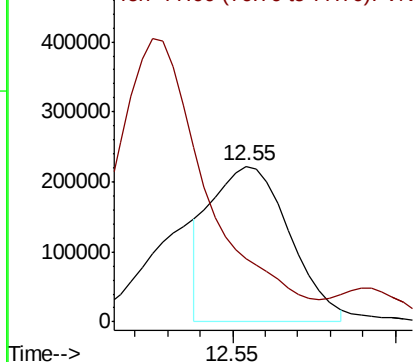
Lab File: VN050918.D

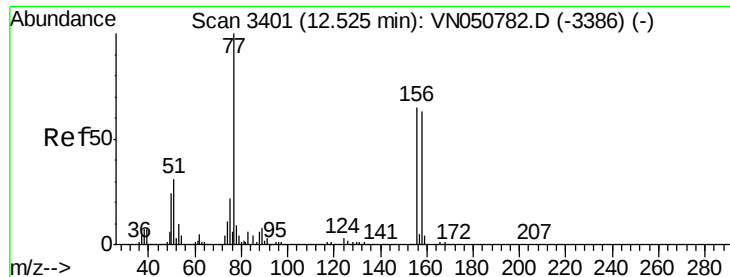
Acq: 28 Aug 2018 16:59

Tgt Ion:	75	Resp:	374033
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 49.95 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

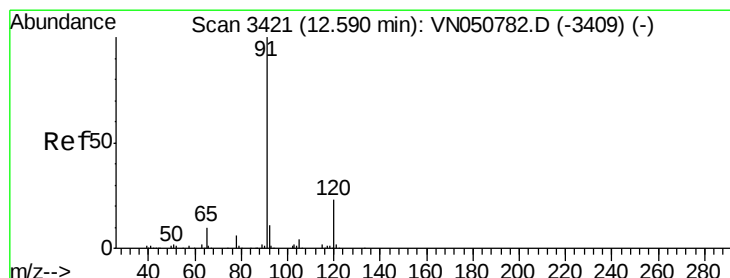
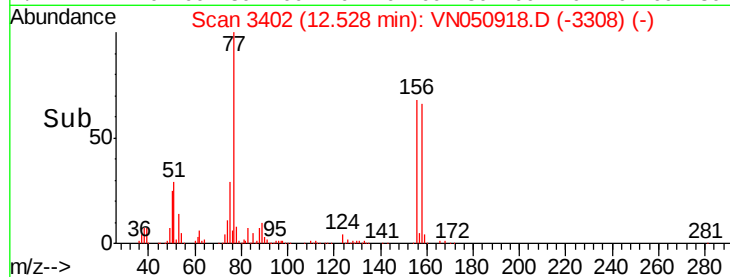
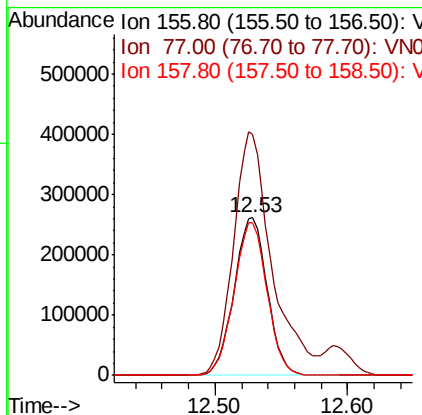
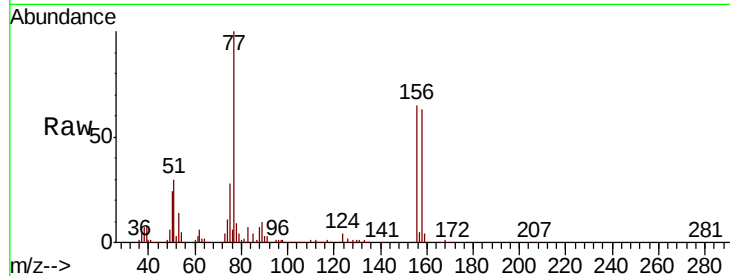
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	452819
Ion Ratio	Lower	Upper	
156	100		
77	179.3	89.9	269.7
158	96.8	49.3	147.9

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#78

n-propylbenzene

Concen: 52.82 ug/l

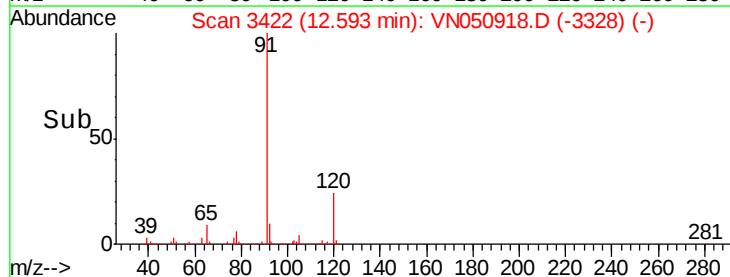
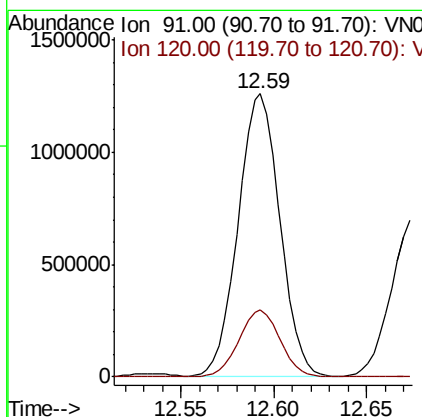
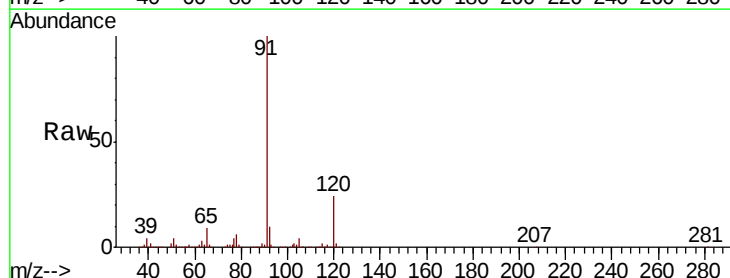
RT: 12.59 min Scan# 3422

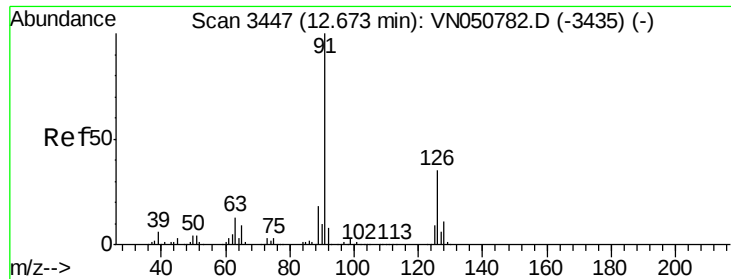
Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Tgt Ion:	91	Resp:	1968232
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.7	35.0





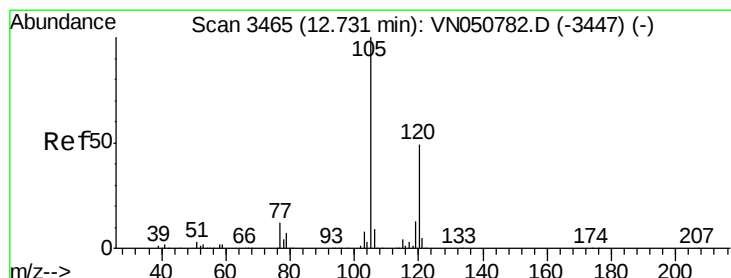
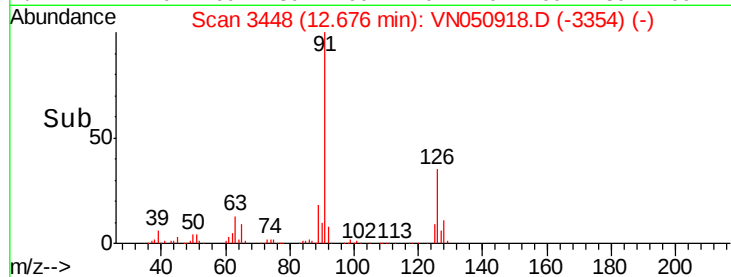
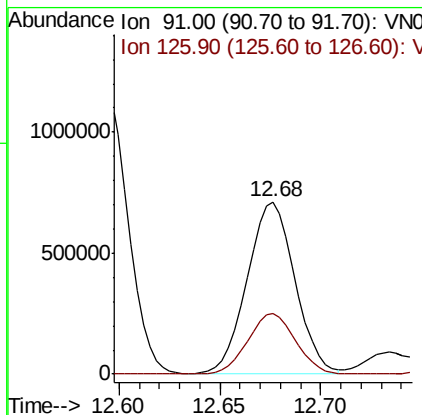
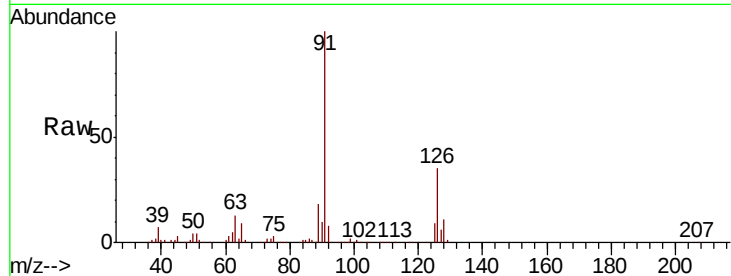
#79
 2-Chlorotoluene
 Concen: 50.64 ug/l
 RT: 12.68 min Scan# 3448
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 1175501
 Ion Ratio Lower Upper
 91 100
 126 35.5 17.8 53.3

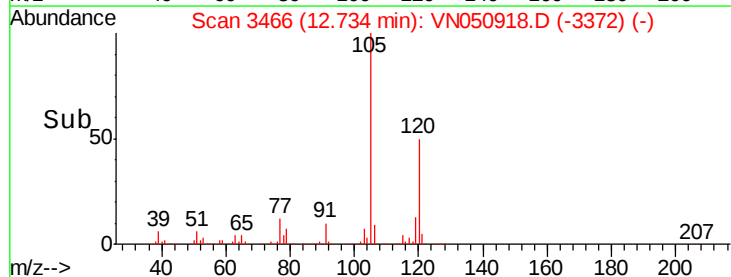
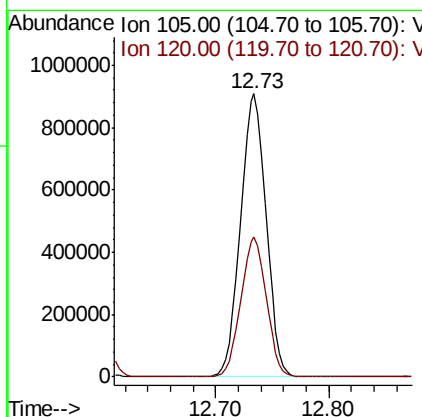
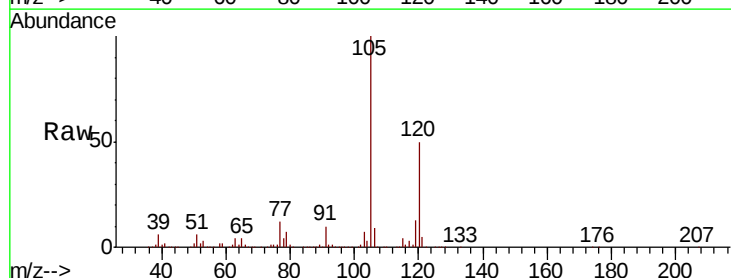
Manual Integrations
 APPROVED

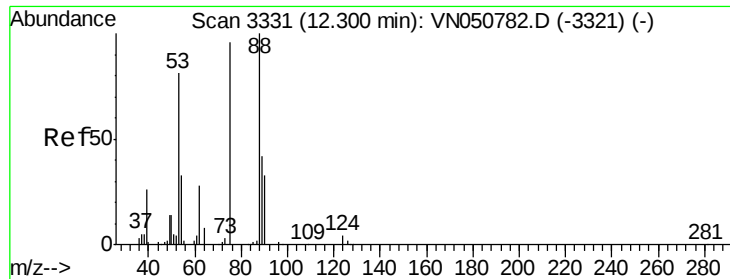
MMDadoda
 8/29/2018 11:10:30 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 53.17 ug/l
 RT: 12.73 min Scan# 3466
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion:105 Resp: 1431151
 Ion Ratio Lower Upper
 105 100
 120 49.2 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.90 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

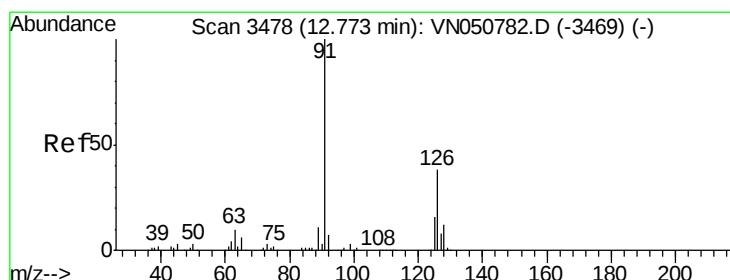
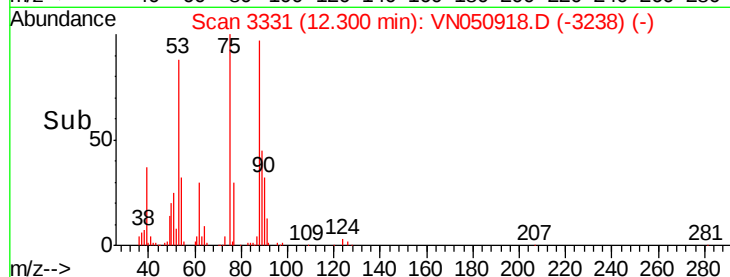
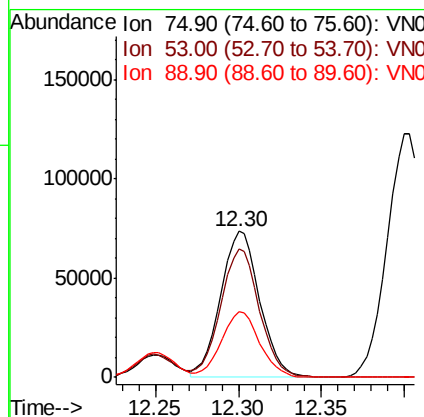
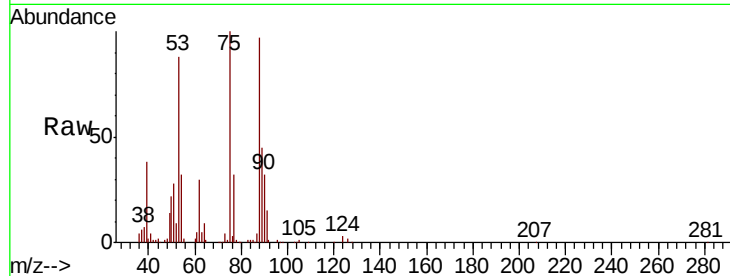
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	120850
Ion	Ratio	Lower	Upper
75	100		
53	87.3	68.9	103.3
89	44.2	36.1	54.1

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#82

4-Chlorotoluene

Concen: 51.62 ug/l

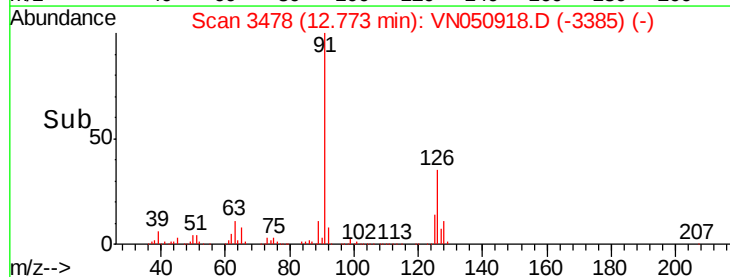
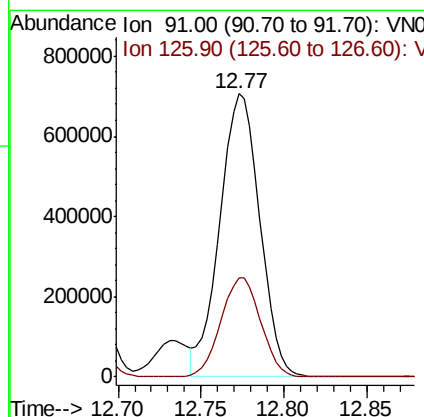
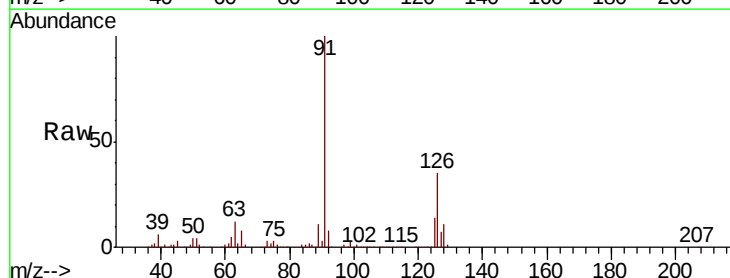
RT: 12.77 min Scan# 3478

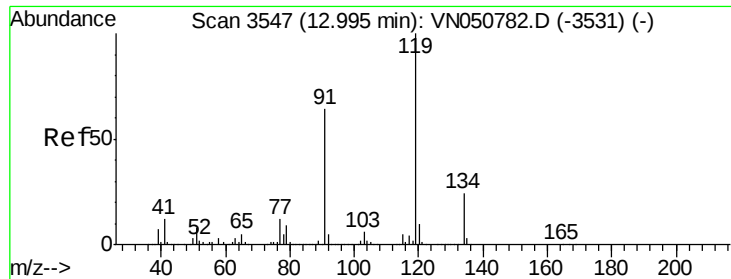
Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Tgt Ion:	91	Resp:	1182799
Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.5	52.5





#83

tert-Butylbenzene

Concen: 53.69 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:119 Resp: 1251490

Ion Ratio Lower Upper

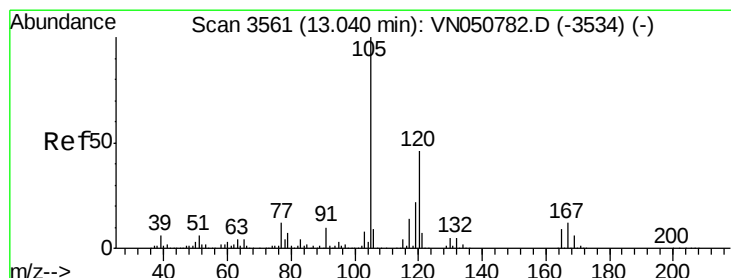
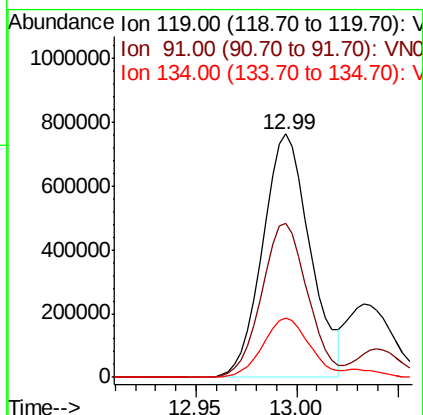
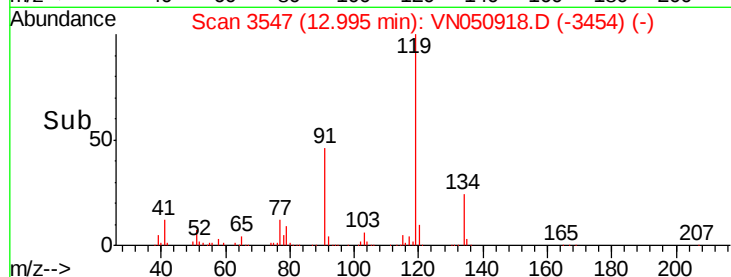
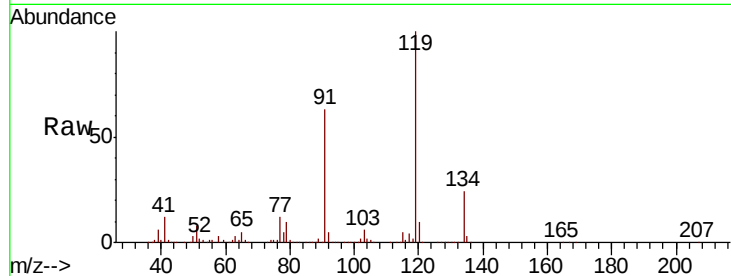
119 100

91 61.8 31.6 94.7

134 24.2 13.4 40.1

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#84

1,2,4-Trimethylbenzene

Concen: 53.42 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. 0.00 min

Lab File: VN050918.D

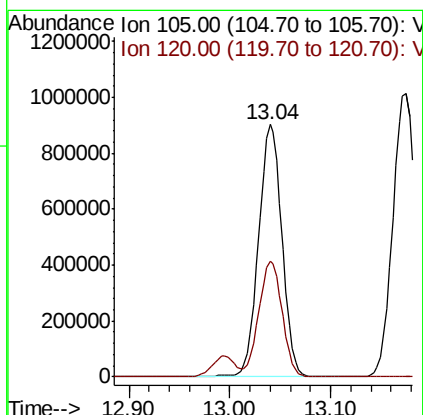
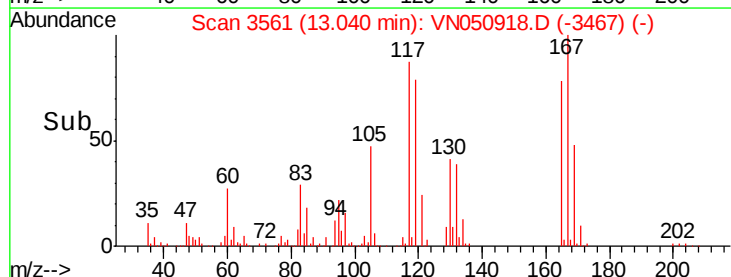
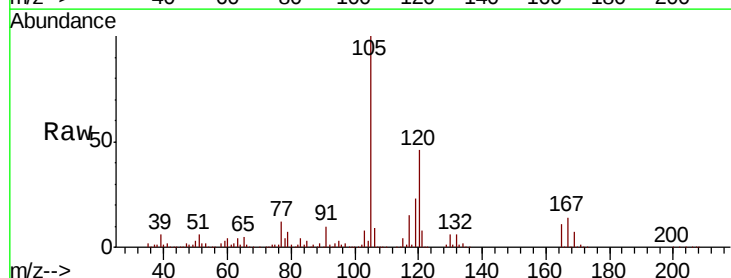
Acq: 28 Aug 2018 16:59

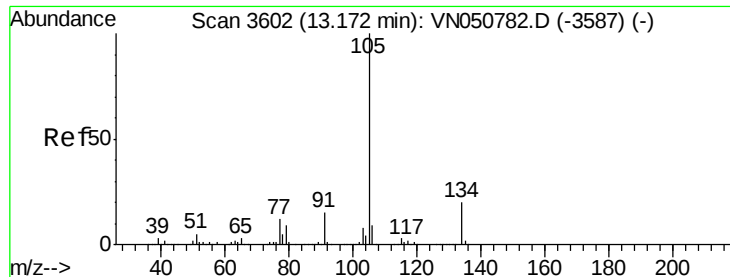
Tgt Ion:105 Resp: 1446339

Ion Ratio Lower Upper

105 100

120 46.0 22.9 68.8





#85

sec-Butylbenzene

Concen: 53.03 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1619768

Ion Ratio Lower Upper

105 100

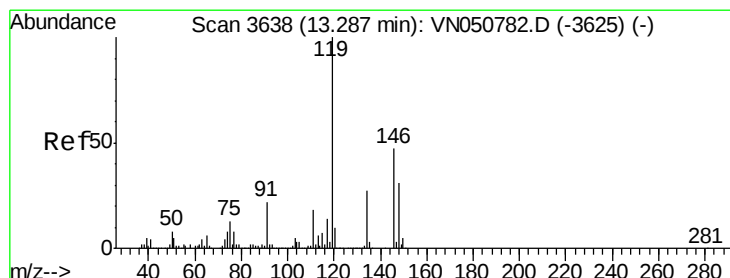
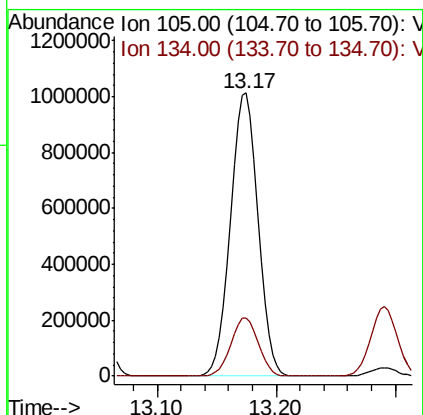
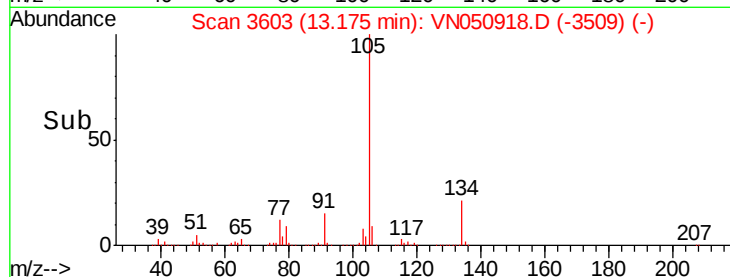
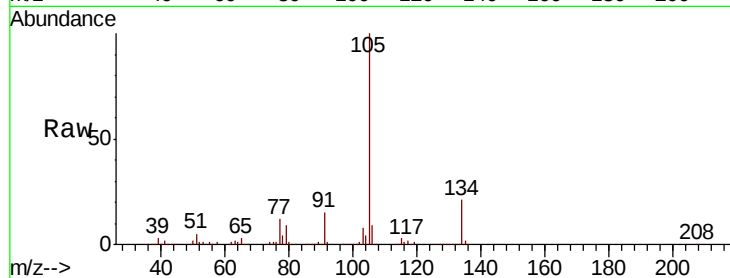
134 20.5 10.3 30.8

Manual Integrations

APPROVED

MMDadoda

8/29/2018 11:10:30 AM



#86

p-Isopropyltoluene

Concen: 55.07 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

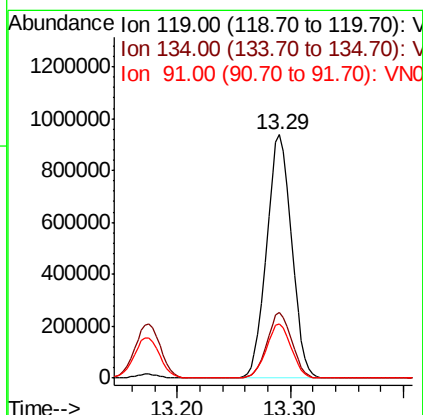
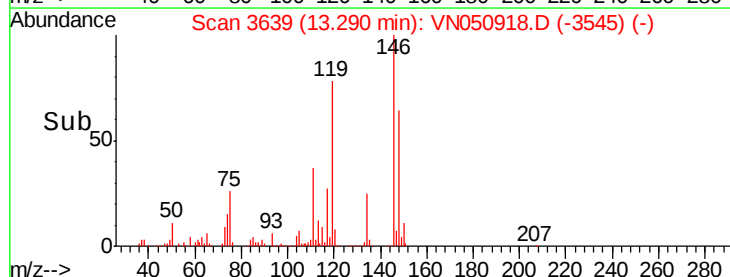
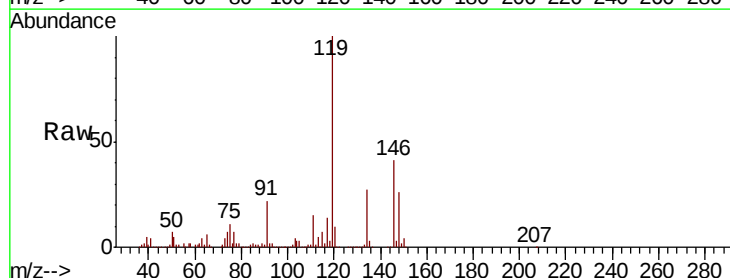
Tgt Ion:119 Resp: 1433361

Ion Ratio Lower Upper

119 100

134 26.7 13.7 41.0

91 22.1 11.2 33.5





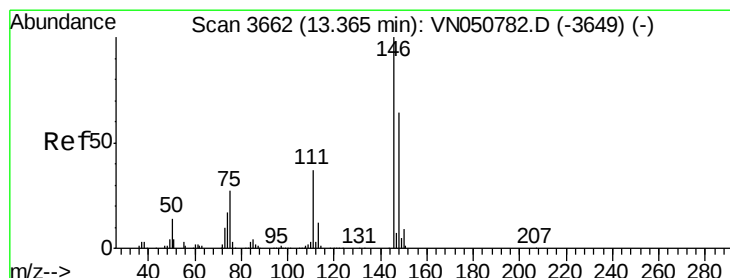
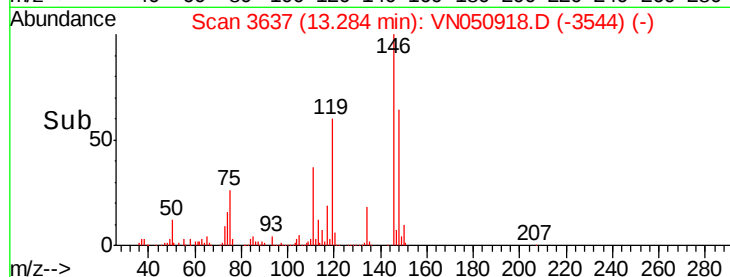
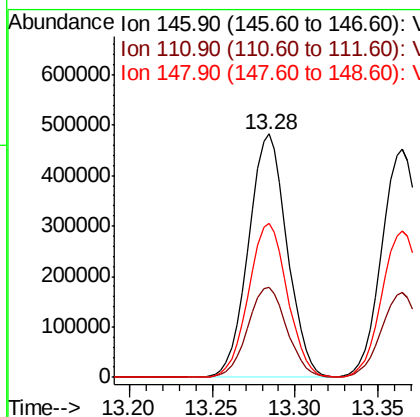
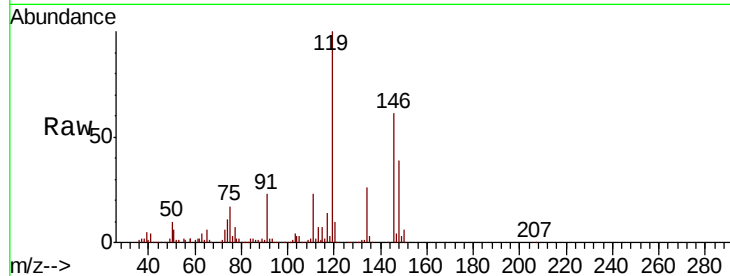
#87
 1,3-Dichlorobenzene
 Concen: 50.63 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.3
148	63.7	32.2	96.6

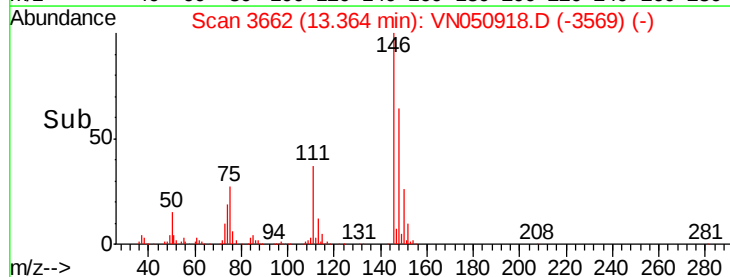
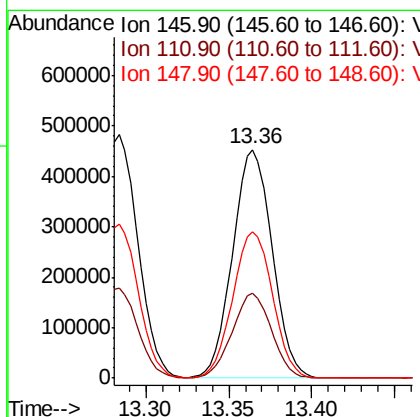
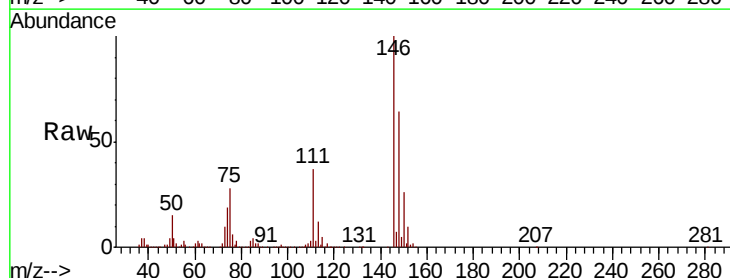
Manual Integrations
 APPROVED

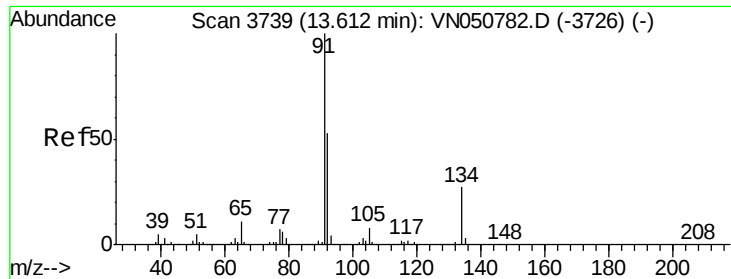
MMDadoda
 8/29/2018 11:10:30 AM



#88
 1,4-Dichlorobenzene
 Concen: 49.63 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.8	56.3
148	64.5	32.2	96.6





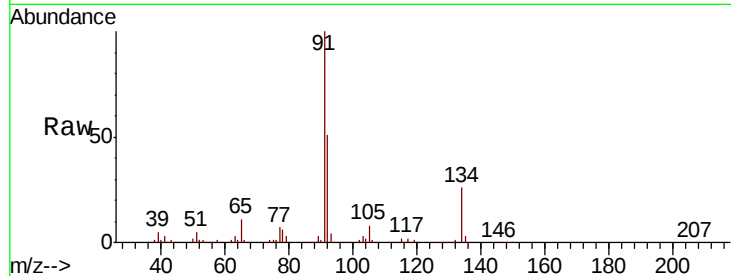
#89
n-Butylbenzene
Concen: 54.25 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

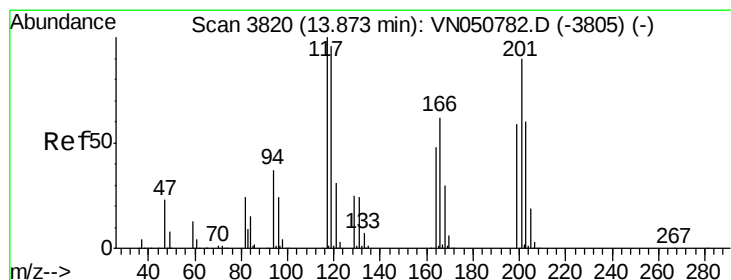
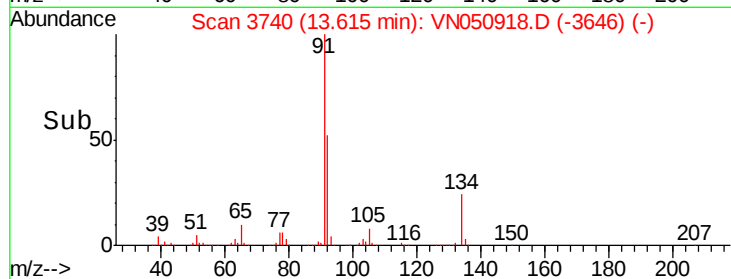
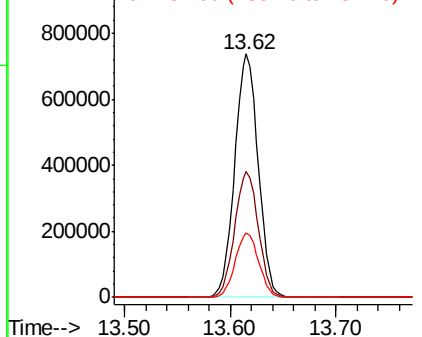
Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.1	78.2
134	26.6	13.2	39.6

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM

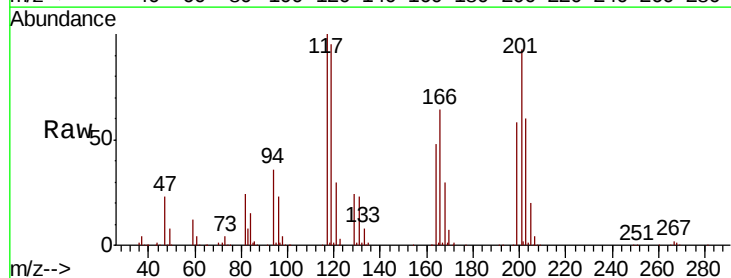


Abundance Ion 91.00 (90.70 to 91.70): VN050782.D (-3726) (-)
Ion 92.00 (91.70 to 92.70): VN050782.D (-3726) (-)
Ion 134.00 (133.70 to 134.70): VN050782.D (-3726) (-)

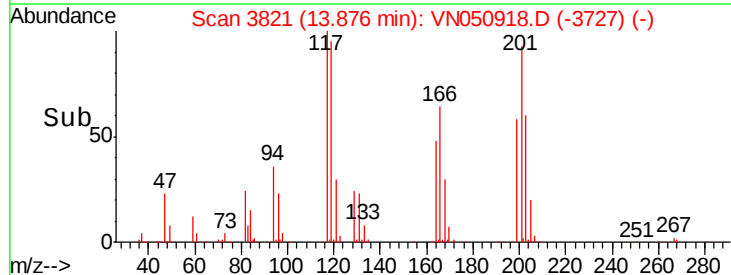
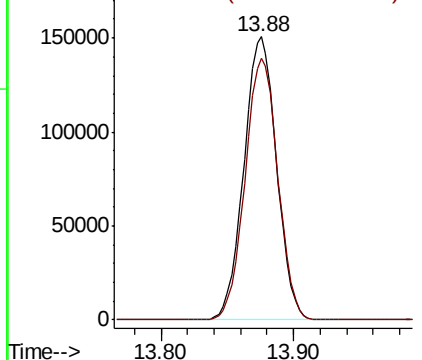


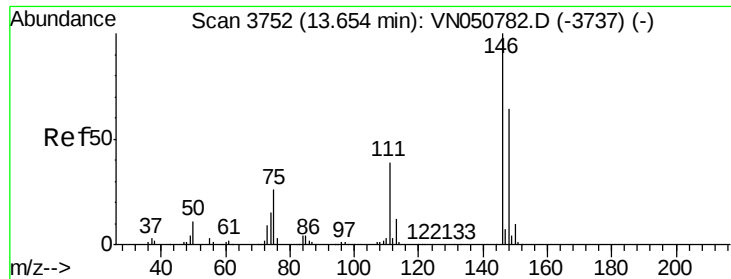
#90
Hexachloroethane
Concen: 51.76 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050918.D
Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.6	46.0	137.8



Abundance Ion 116.80 (116.50 to 117.50): VN050782.D (-3805) (-)
Ion 200.70 (200.40 to 201.40): VN050782.D (-3805) (-)





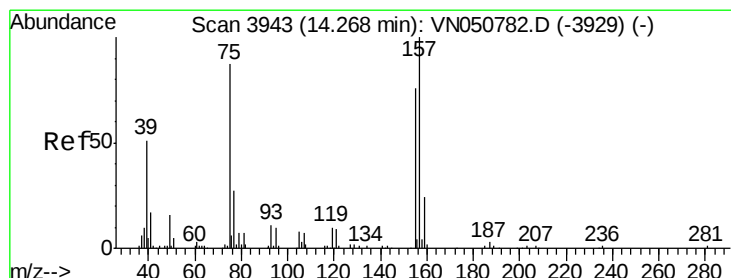
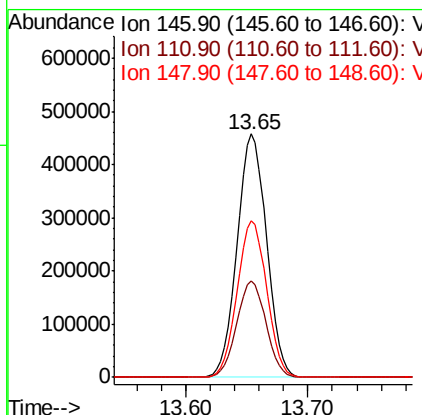
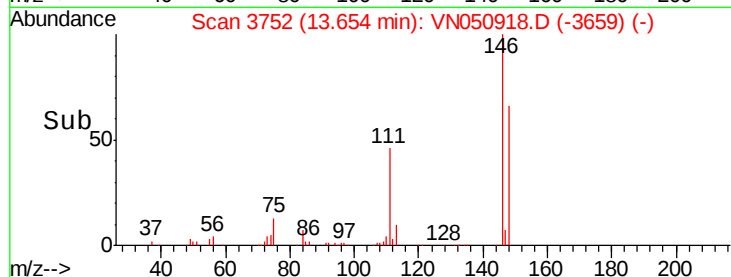
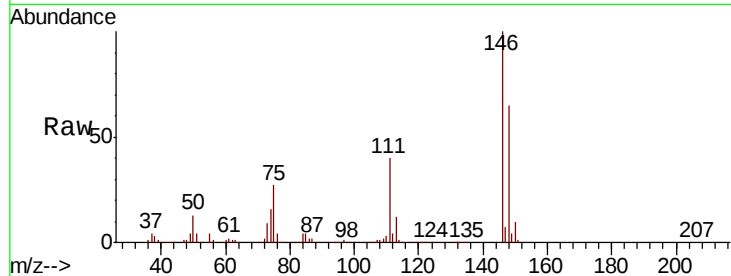
#91
 1,2-Dichlorobenzene
 Concen: 51.28 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.8	59.3
148	64.5	32.3	96.8

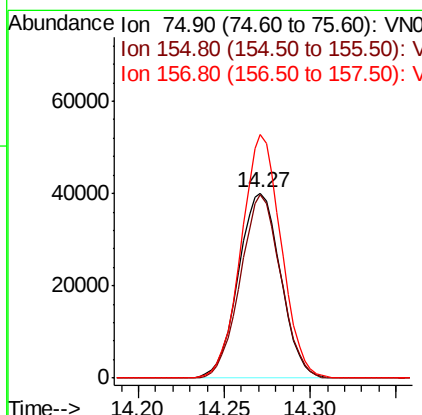
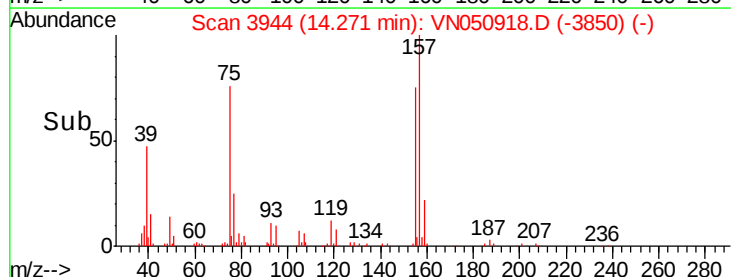
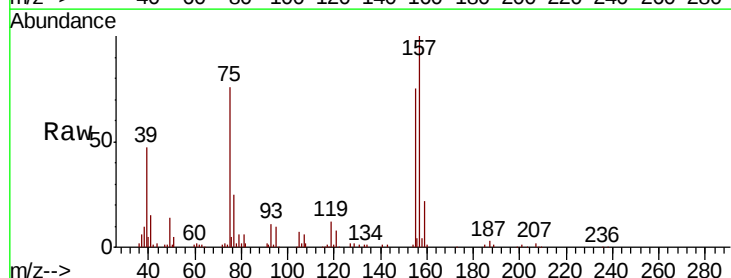
Manual Integrations
 APPROVED

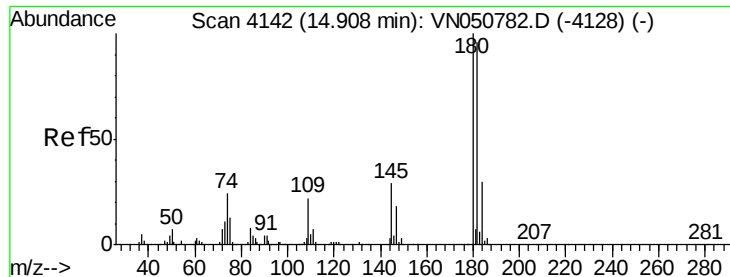
MMDadoda
 8/29/2018 11:10:30 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 57.25 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.4	46.4	139.1
157	124.4	60.7	182.0





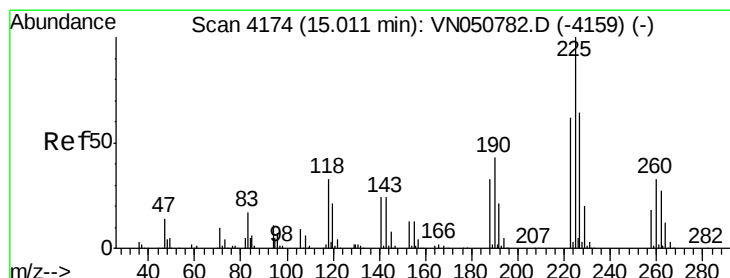
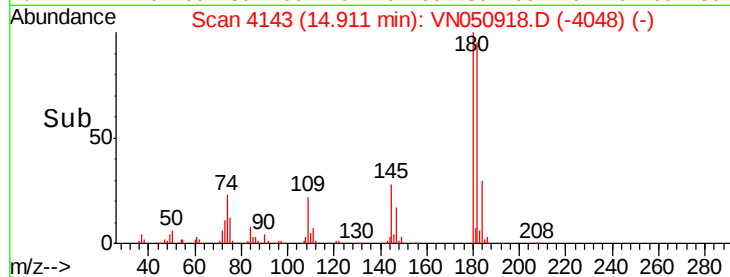
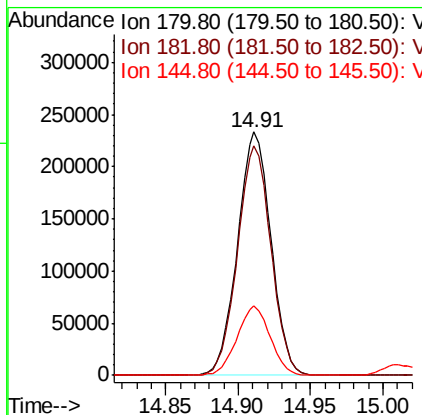
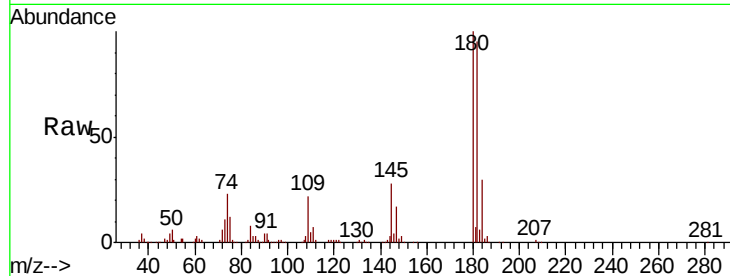
#93
 1,2,4-Trichlorobenzene
 Concen: 48.46 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.4	48.2	144.6	
145	28.3	14.1	42.2	

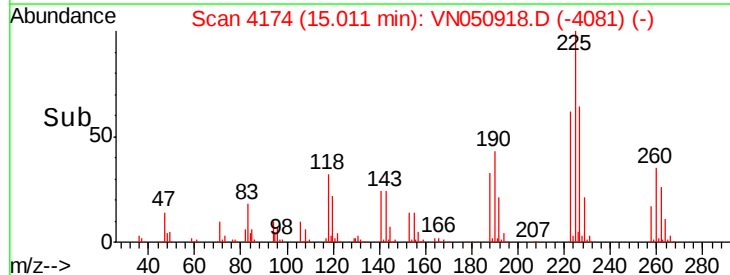
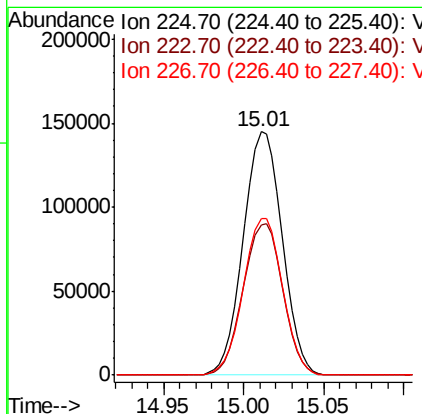
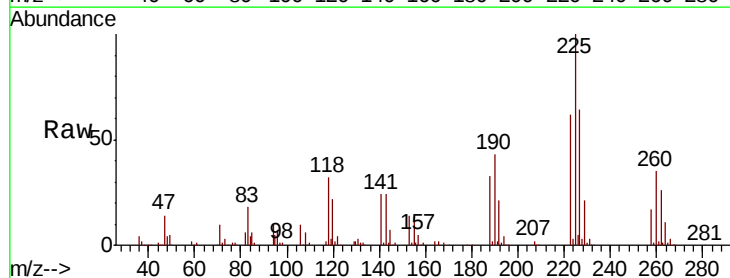
Manual Integrations
 APPROVED

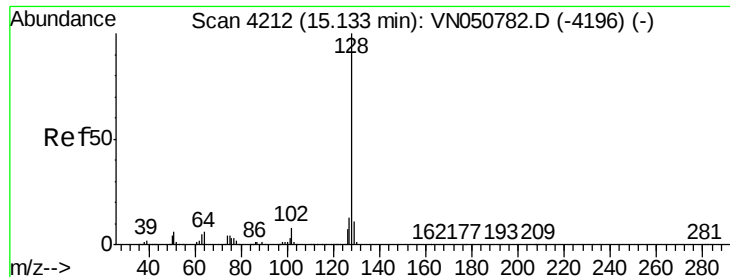
MMDadoda
 8/29/2018 11:10:30 AM



#94
 Hexachlorobutadiene
 Concen: 54.81 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050918.D
 Acq: 28 Aug 2018 16:59

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.2	31.3	93.8	
227	64.6	32.0	96.2	





#95

Naphthalene

Concen: 48.94 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Instrument :

MSVOA_N

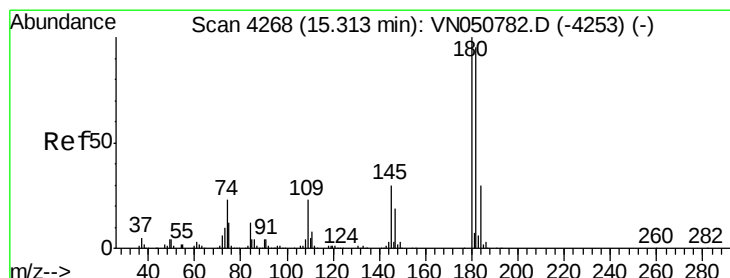
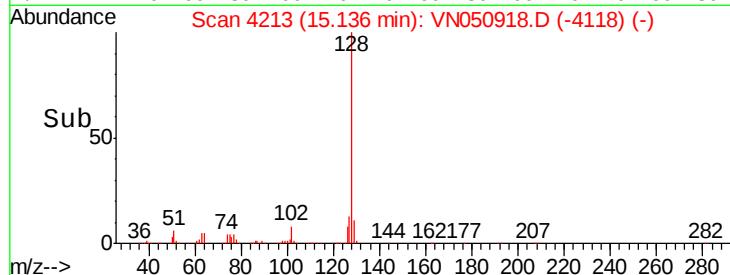
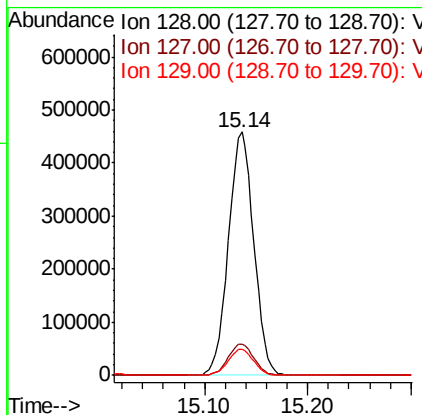
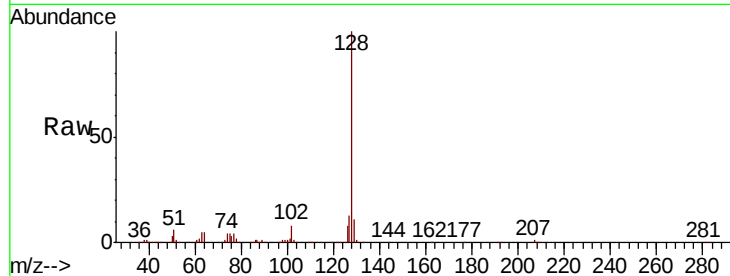
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	785633
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.5	15.7
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
8/29/2018 11:10:30 AM



#96

1,2,3-Trichlorobenzene

Concen: 50.74 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050918.D

Acq: 28 Aug 2018 16:59

Tgt Ion:	180	Resp:	367665
Ion Ratio	Lower	Upper	
180	100		
182	95.8	48.0	144.2
145	29.6	15.2	45.6

