

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051563.D
 Acq On : 27 Sep 2018 4:44
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/27/2018 3:18:44 PM

Quant Time: Sep 27 09:14:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	438971	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	642164	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	589477	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	316684	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	309052	56.20	ug/l	0.00
Spiked Amount			Recovery	=	112.40%	
35) Dibromofluoromethane	7.59	113	274158	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	
50) Toluene-d8	10.09	98	953162	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.40	95	332099	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	160145	39.104	ug/l	100
3) Chloromethane	2.06	50	255459	39.185	ug/l	100
4) Vinyl Chloride	2.19	62	287681	39.981	ug/l	99
5) Bromomethane	2.56	94	139871	32.458	ug/l	95
6) Chloroethane	2.70	64	156560	34.918	ug/l	99
7) Trichlorofluoromethane	3.01	101	379036	40.216	ug/l	98
8) Diethyl Ether	3.41	74	148591	50.340	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	225947	42.478	ug/l	97
10) Methyl Iodide	3.95	142	275167	39.003	ug/l	98
11) Tert butyl alcohol	4.79	59	86106	277.453	ug/l #	78
12) 1,1-Dichloroethene	3.73	96	197065	40.349	ug/l	97
13) Acrolein	3.61	56	79975	259.513	ug/l	97
14) Allyl chloride	4.32	41	381238	46.524	ug/l	96
15) Acrylonitrile	4.99	53	475562	281.694	ug/l	99
16) Acetone	3.82	43	321290	264.296	ug/l	96
17) Carbon Disulfide	4.05	76	521413	36.338	ug/l	99
18) Methyl Acetate	4.33	43	255751	61.068	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	695188	55.198	ug/l	98
20) Methylene Chloride	4.55	84	279544	51.373	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	230615	46.157	ug/l	98
22) Diisopropyl ether	5.95	45	929007	58.651	ug/l	98
23) Vinyl Acetate	5.90	43	2940520	282.769	ug/l	99
24) 1,1-Dichloroethane	5.85	63	500128	52.919	ug/l	99
25) 2-Butanone	6.84	43	514506	273.363	ug/l	99
26) 2,2-Dichloropropane	6.82	77	256098	34.714	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	278092	50.726	ug/l	100
28) Bromochloromethane	7.19	49	267596	61.314	ug/l	99
29) Tetrahydrofuran	7.21	42	359688	301.566	ug/l	96
30) Chloroform	7.37	83	512303	54.707	ug/l	99
31) Cyclohexane	7.65	56	367158	42.403	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	399357	49.884	ug/l	99
36) 1,1-Dichloropropene	7.79	75	335426	45.106	ug/l	98
37) Ethyl Acetate	6.93	43	235981	55.192	ug/l	100
38) Carbon Tetrachloride	7.77	117	349268	44.904	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051563.D
 Acq On : 27 Sep 2018 4:44
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/27/2018 3:18:44 PM

Quant Time: Sep 27 09:14:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	351284	40.409	ug/l	97
40) Benzene	8.04	78	1079210	49.426	ug/l	100
41) Methacrylonitrile	7.18	41	134574	56.891	ug/l	96
42) 1,2-Dichloroethane	8.12	62	375282	53.676	ug/l	99
43) Isopropyl Acetate	8.16	43	460896	59.613	ug/l	95
44) Trichloroethene	8.83	130	270038	46.562	ug/l	100
45) 1,2-Dichloropropane	9.12	63	319309	53.797	ug/l	99
46) Dibromomethane	9.21	93	180615	53.857	ug/l	98
47) Bromodichloromethane	9.40	83	405698	54.665	ug/l	98
48) Methyl methacrylate	9.20	41	214218	55.574	ug/l	99
49) 1,4-Dioxane	9.20	88	52376	1108.695	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1226023	288.337	ug/l	99
52) Toluene	10.16	92	654013	48.197	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	374493	49.982	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	431251	49.632	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	263784	55.005	ug/l	98
56) Ethyl methacrylate	10.43	69	326485	55.682	ug/l	100
57) 1,3-Dichloropropane	10.71	76	448042	54.508	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	831305	261.008	ug/l	98
59) 2-Hexanone	10.75	43	778752	282.520	ug/l	98
60) Dibromochloromethane	10.90	129	301254	53.241	ug/l	99
61) 1,2-Dibromoethane	11.00	107	247020	53.060	ug/l	100
64) Tetrachloroethene	10.63	164	265321	49.595	ug/l	97
65) Chlorobenzene	11.43	112	733097	48.472	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	290508	50.417	ug/l	99
67) Ethyl Benzene	11.51	91	1221767	47.935	ug/l	99
68) m/p-Xylenes	11.62	106	957935	97.164	ug/l	100
69) o-Xylene	11.95	106	460587	48.596	ug/l	96
70) Styrene	11.96	104	766977	51.069	ug/l	99
71) Bromoform	12.13	173	201277	51.479	ug/l	99
73) Isopropylbenzene	12.25	105	1217726	45.574	ug/l	100
74) N-amyl acetate	12.07	43	360854	53.826	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	321459	51.592	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	276372m	52.570	ug/l	
77) Bromobenzene	12.53	156	315709	46.674	ug/l	95
78) n-propylbenzene	12.59	91	1409434	46.803	ug/l	98
79) 2-Chlorotoluene	12.67	91	855678	47.470	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1044927	47.960	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	78132	45.700	ug/l	98
82) 4-Chlorotoluene	12.77	91	872609	48.502	ug/l	99
83) tert-Butylbenzene	12.99	119	889334	45.859	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1064727	48.496	ug/l	100
85) sec-Butylbenzene	13.17	105	1221453	46.558	ug/l	99
86) p-Isopropyltoluene	13.29	119	1068908	47.086	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	563618	48.150	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	539551	47.906	ug/l	99
89) n-Butylbenzene	13.62	91	867798	46.487	ug/l	99
90) Hexachloroethane	13.87	117	205079	45.340	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	560652	49.365	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	46371	52.149	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
Data File : VN051563.D
Acq On : 27 Sep 2018 4:44
Operator : MD\SY
Sample : VSTDCCC050
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM

Quant Time: Sep 27 09:14:57 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 24 06:41:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	267083	44.383	ug/l	99
94) Hexachlorobutadiene	15.01	225	192482	44.793	ug/l	99
95) Naphthalene	15.13	128	491865	43.097	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	267069	49.000	ug/l	98

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

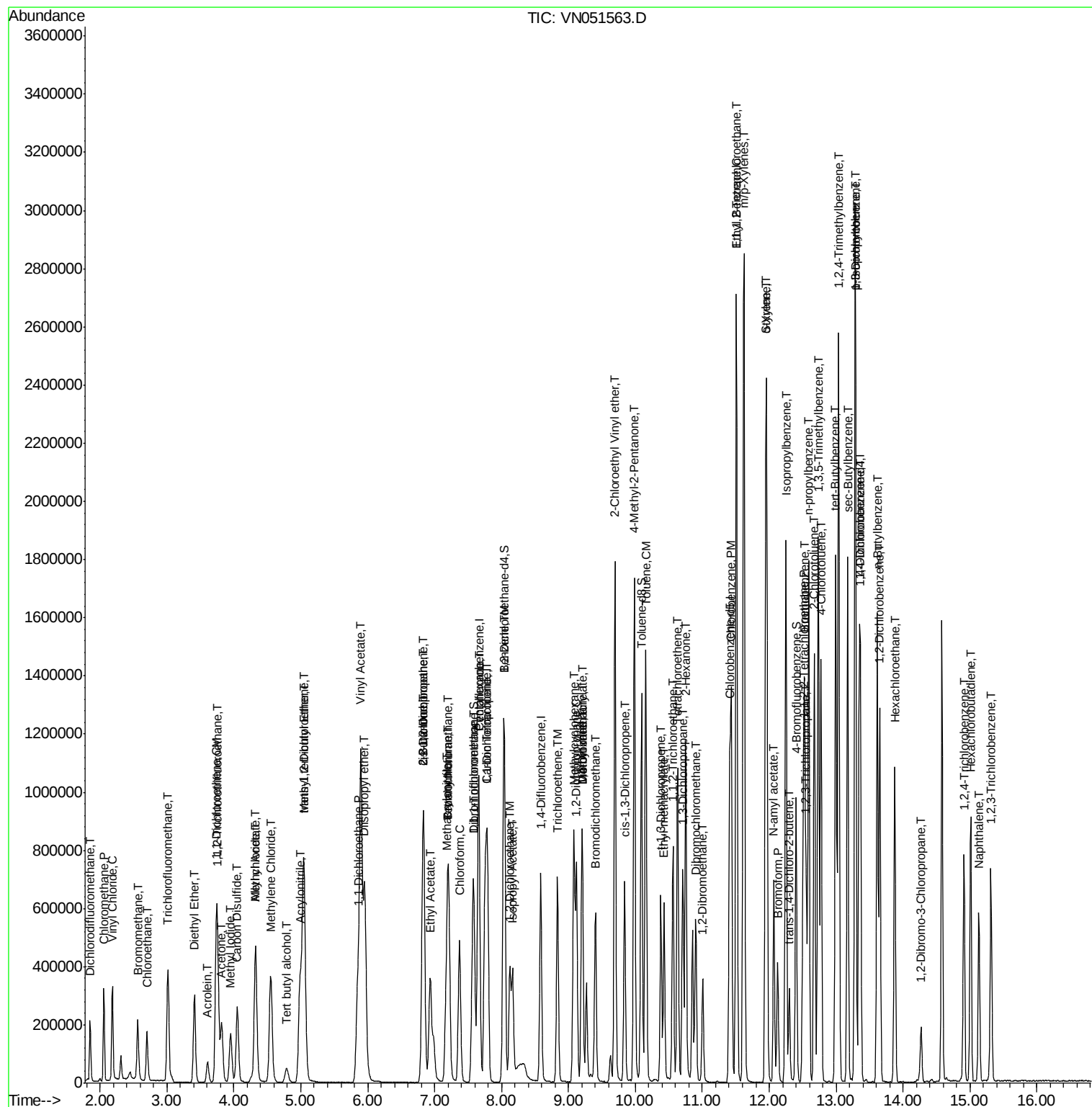
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051563.D
 Acq On : 27 Sep 2018 4:44
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

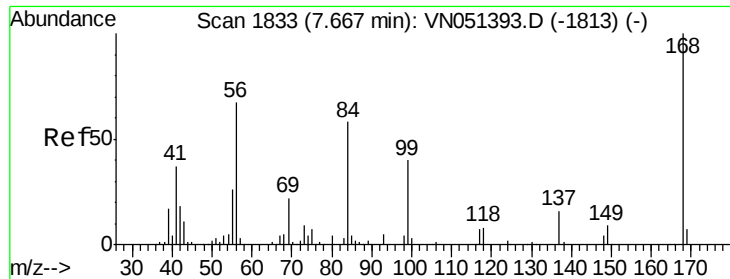
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/27/2018 3:18:44 PM

Quant Time: Sep 27 09:14:57 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 438971

Ion Ratio Lower Upper

168 100

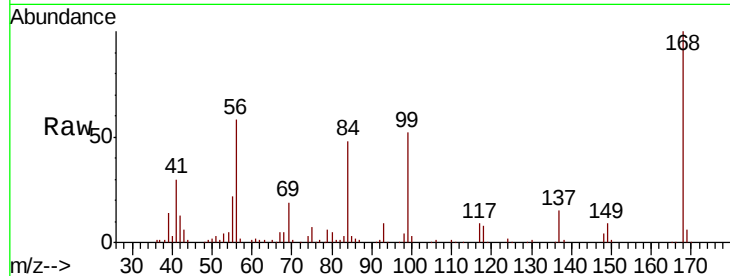
99 51.3 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

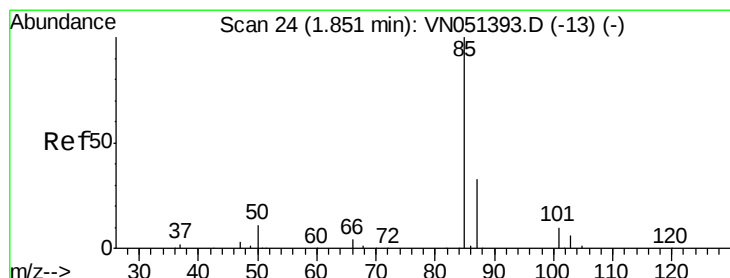
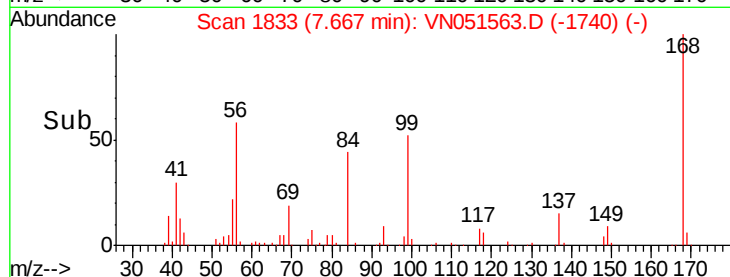
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 39.104 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051563.D

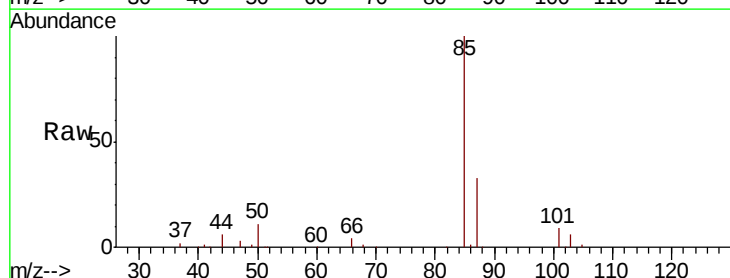
Acq: 27 Sep 2018 4:44

Tgt Ion: 85 Resp: 160145

Ion Ratio Lower Upper

85 100

87 32.7 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

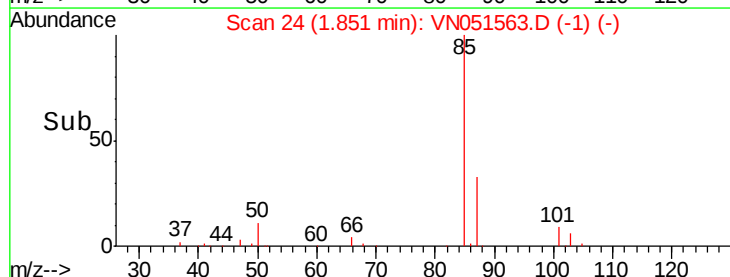
1.85

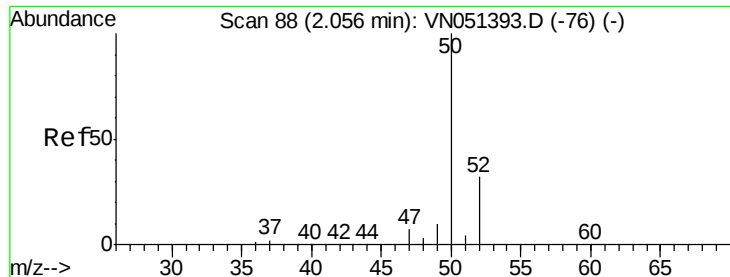
100000

50000

0

Time-->





#3

Chloromethane

Concen: 39.185 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 255459

Ion Ratio Lower Upper

50 100

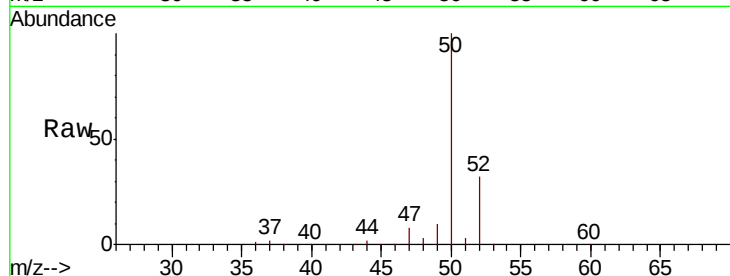
52 32.2 25.7 38.5

Manual Integrations

APPROVED

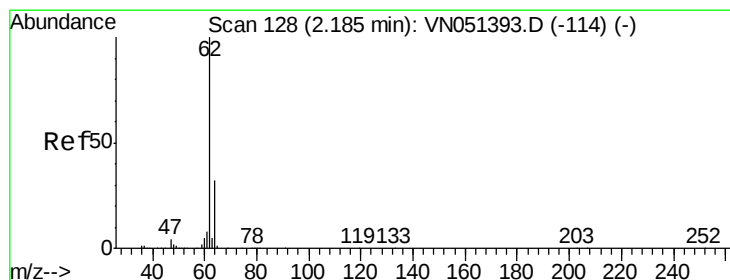
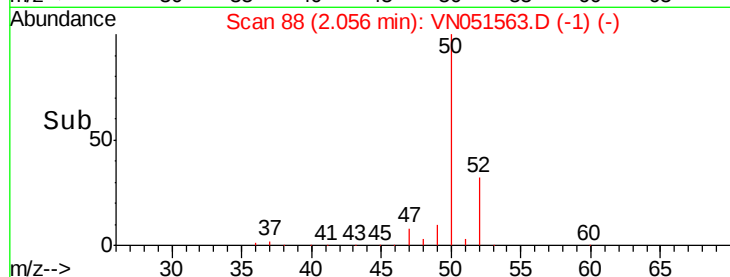
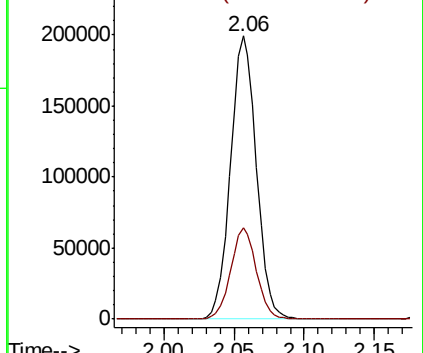
MMDadoda

9/27/2018 3:18:44 PM



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 39.981 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051563.D

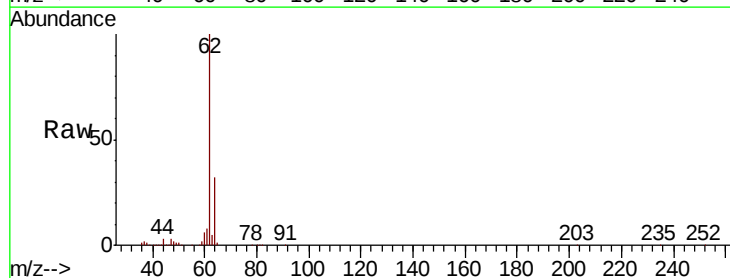
Acq: 27 Sep 2018 4:44

Tgt Ion: 62 Resp: 287681

Ion Ratio Lower Upper

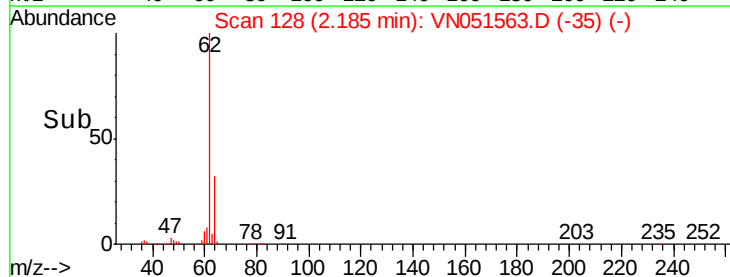
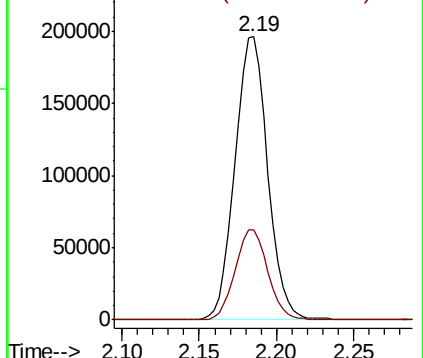
62 100

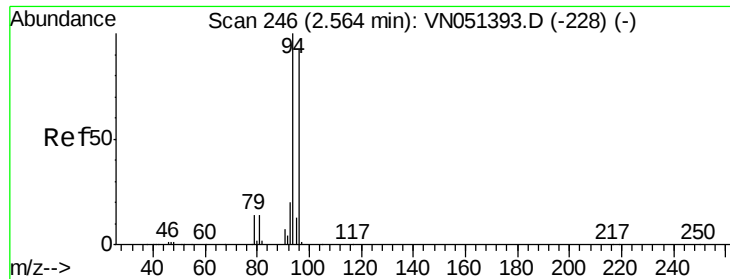
64 31.8 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 32.458 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 139871

Ion Ratio Lower Upper

94 100

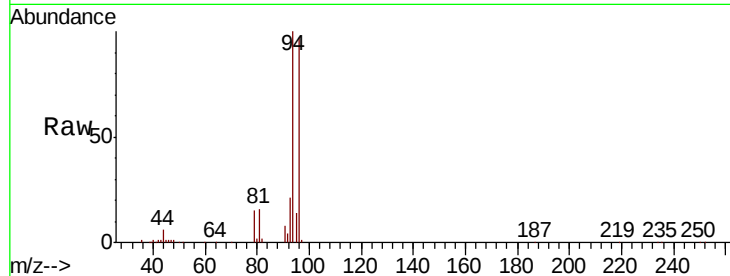
96 96.6 73.6 110.4

Manual Integrations

APPROVED

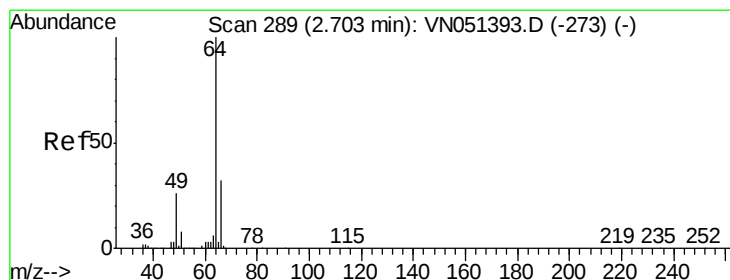
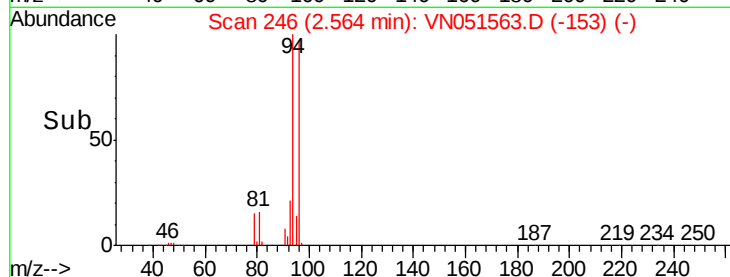
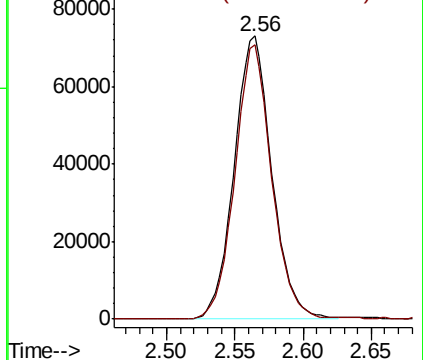
MMDadoda

9/27/2018 3:18:44 PM



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 34.918 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051563.D

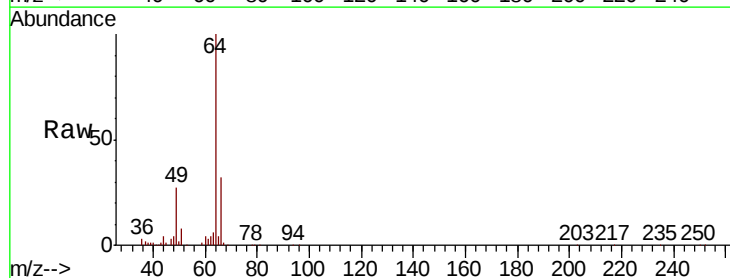
Acq: 27 Sep 2018 4:44

Tgt Ion: 64 Resp: 156560

Ion Ratio Lower Upper

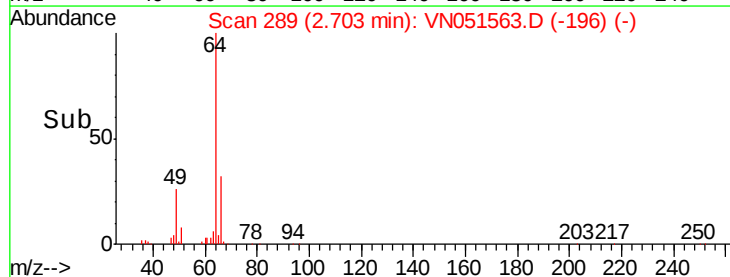
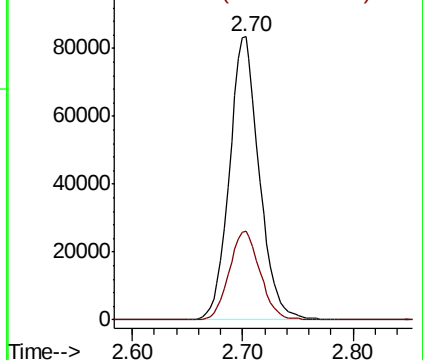
64 100

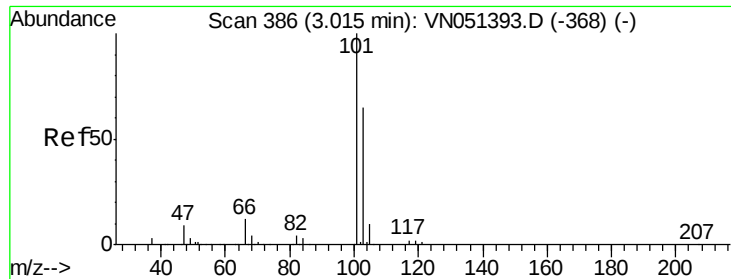
66 31.6 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC





#7

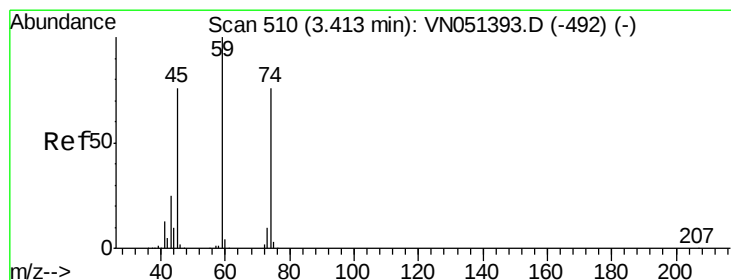
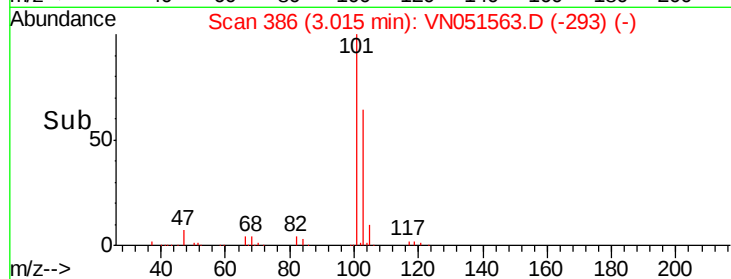
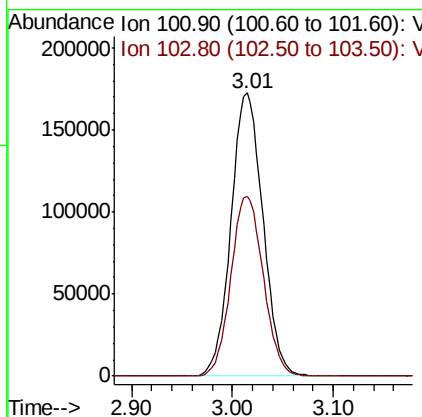
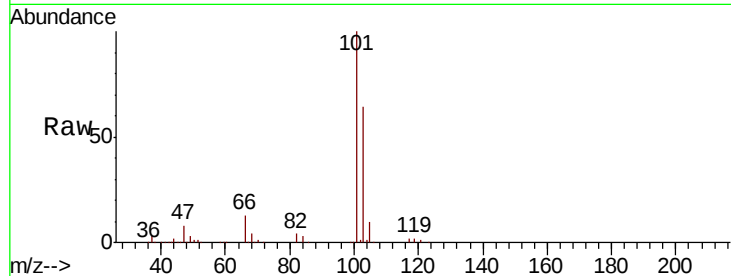
Trichlorofluoromethane
 Concen: 40.216 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	379036		
103	63.6	51.8	77.8	

Manual Integrations
 APPROVED

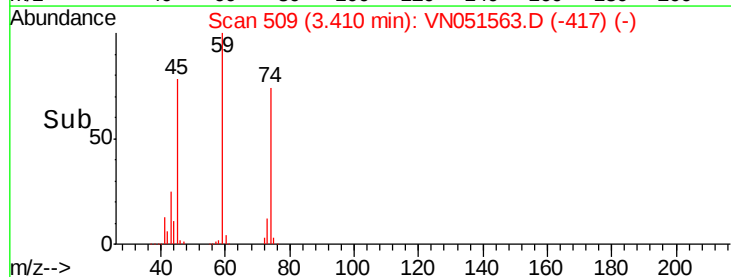
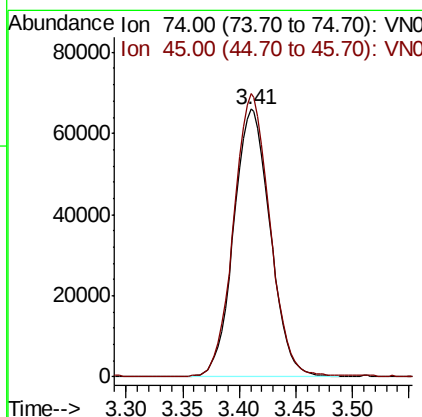
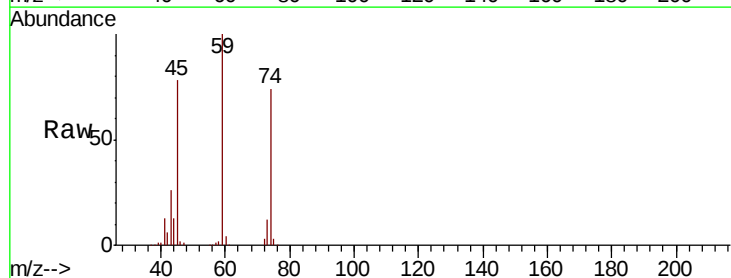
MMDadoda
 9/27/2018 3:18:44 PM

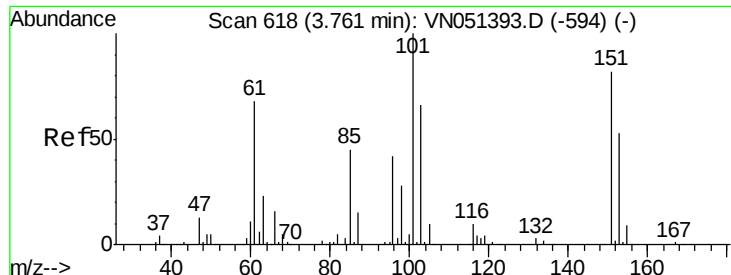


#8

Diethyl Ether
 Concen: 50.340 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	148591		
45	105.2	50.2	150.7	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 42.478 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

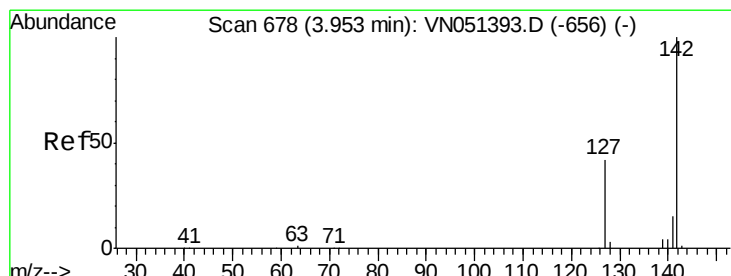
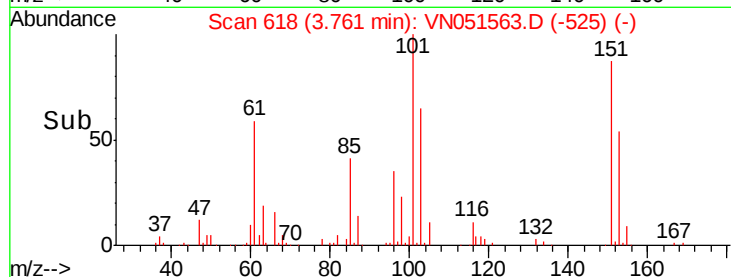
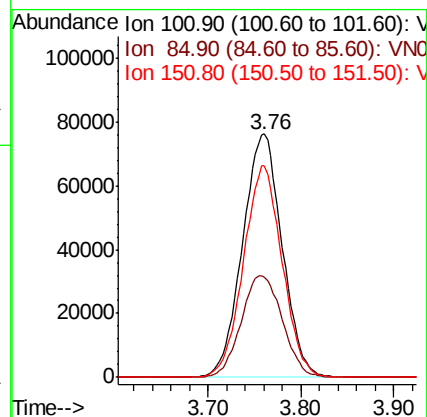
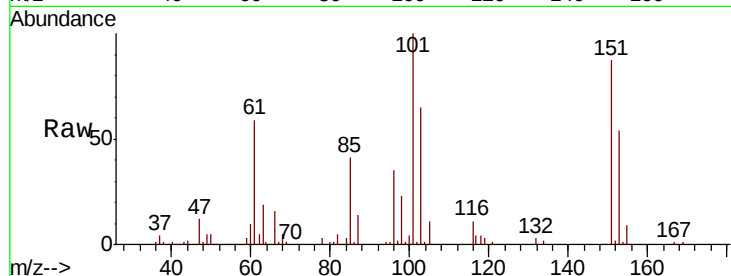
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	225947
Ion Ratio	Lower	Upper	
101	100		
85	43.3	33.9	50.9
151	84.8	65.2	97.8

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM



#10

Methyl Iodide

Concen: 39.003 ug/l

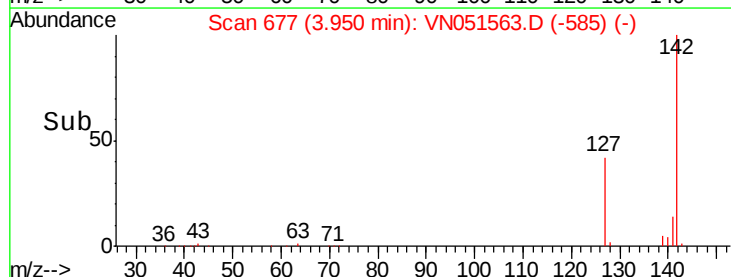
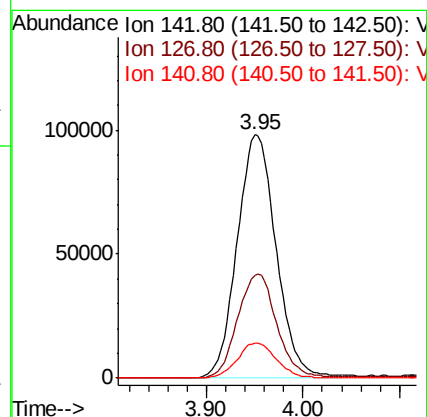
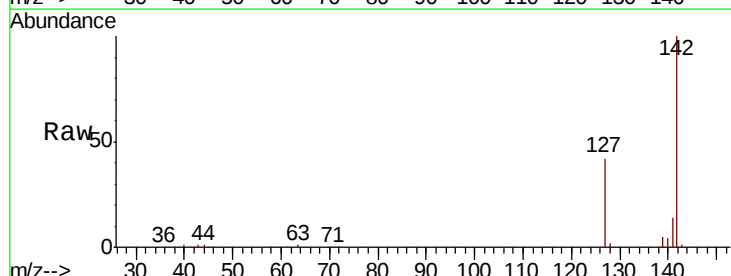
RT: 3.95 min Scan# 677

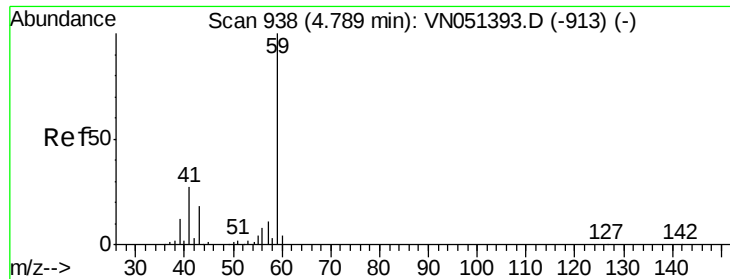
Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Tgt Ion:	142	Resp:	275167
Ion Ratio	Lower	Upper	
142	100		
127	43.0	33.2	49.8
141	14.6	11.5	17.3





#11

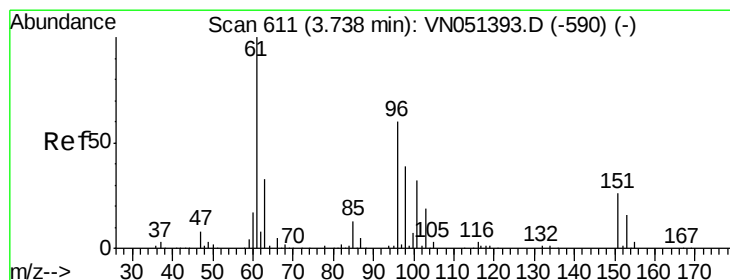
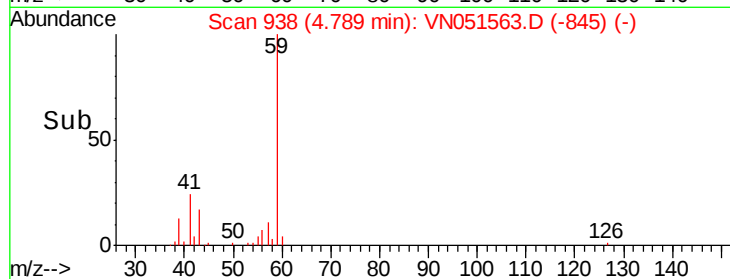
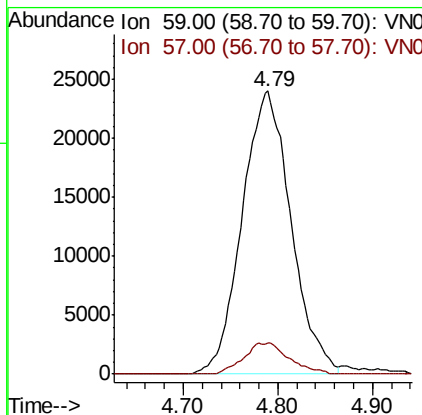
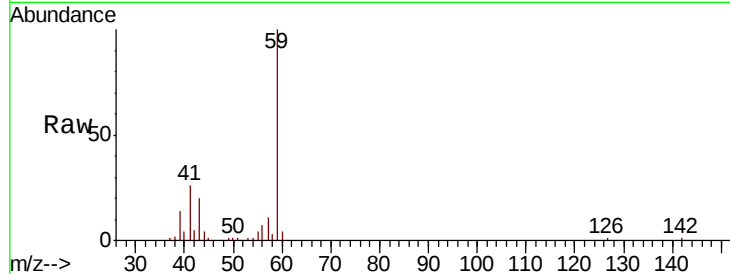
Tert butyl alcohol
Concen: 277.453 ug/l
RT: 4.79 min Scan# 938
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	6.2	9.2#

Manual Integrations
APPROVED

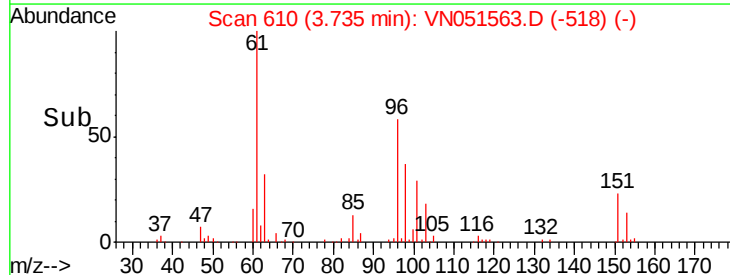
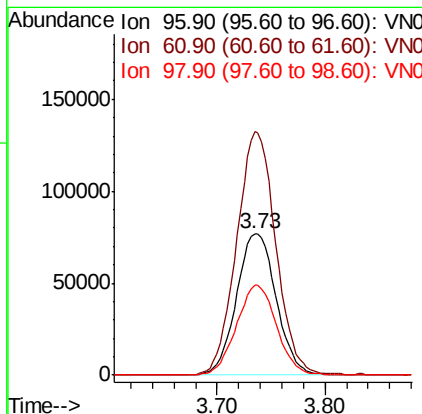
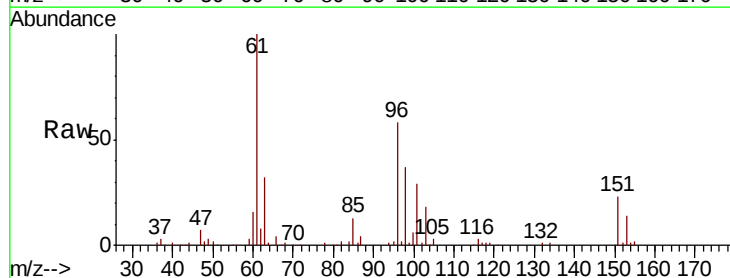
MMDadoda
9/27/2018 3:18:44 PM

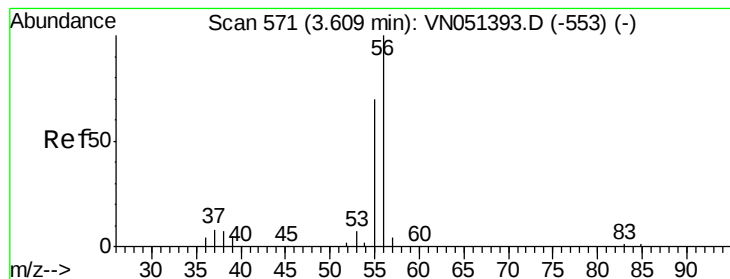


#12

1,1-Dichloroethene
Concen: 40.349 ug/l
RT: 3.73 min Scan# 610
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.5	133.6	200.4
98	63.3	52.2	78.2





#13

Acrolein

Concen: 259.513 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 79975

Ion Ratio Lower Upper

56 100

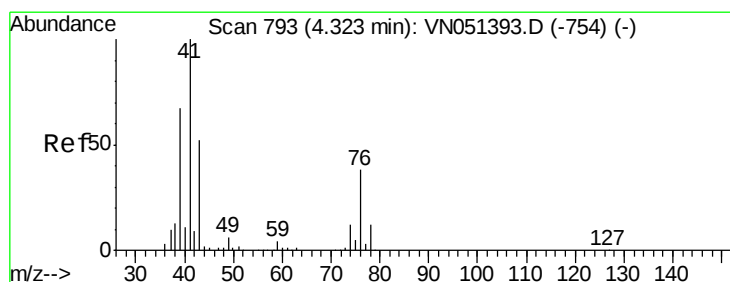
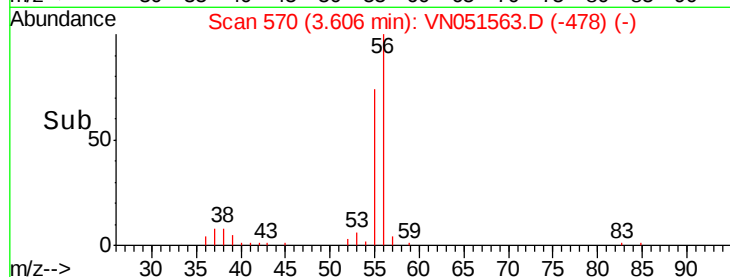
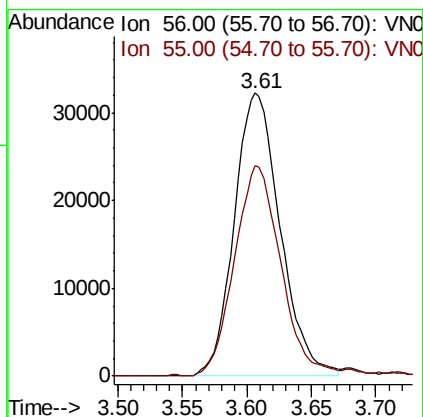
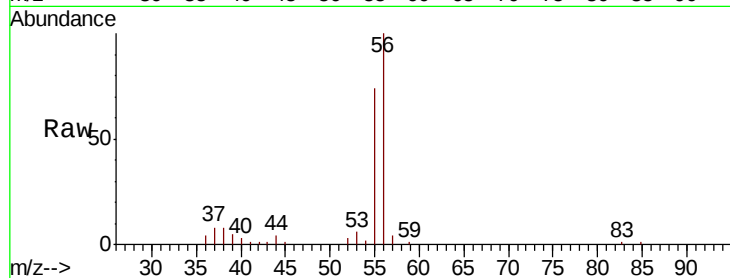
55 74.7 57.8 86.8

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



#14

Allyl chloride

Concen: 46.524 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

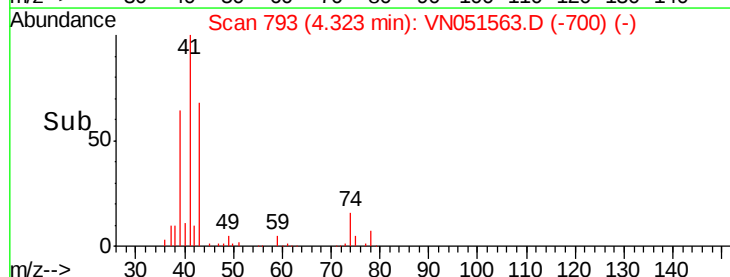
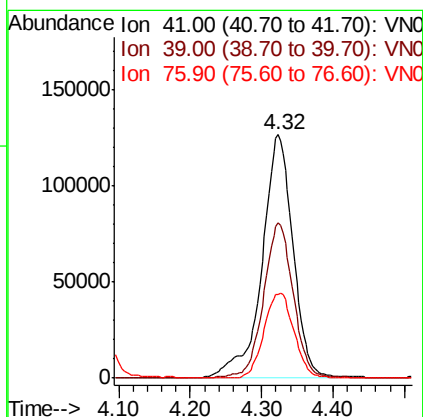
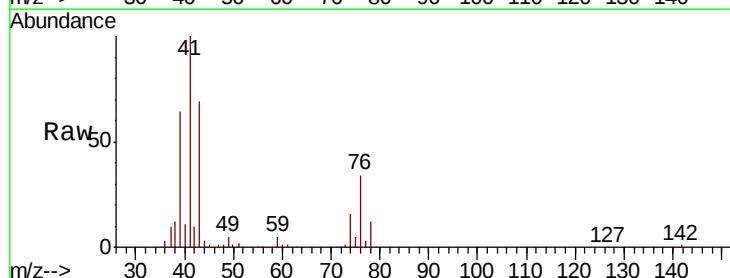
Tgt Ion: 41 Resp: 381238

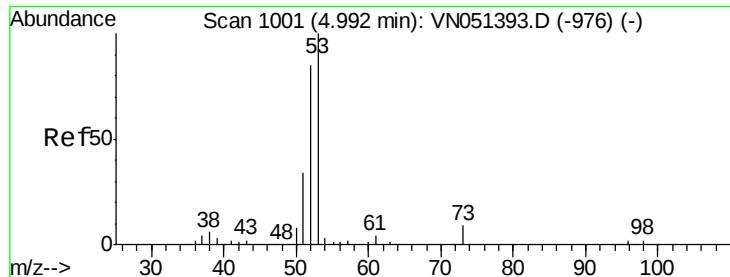
Ion Ratio Lower Upper

41 100

39 60.8 51.4 77.2

76 33.1 28.1 42.1





#15

Acrylonitrile

Concen: 281.694 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

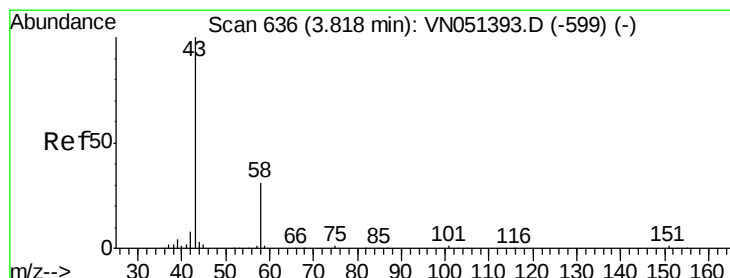
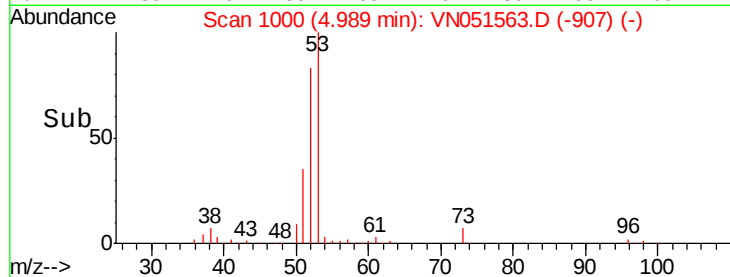
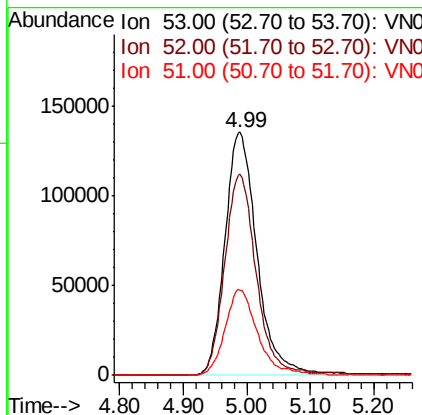
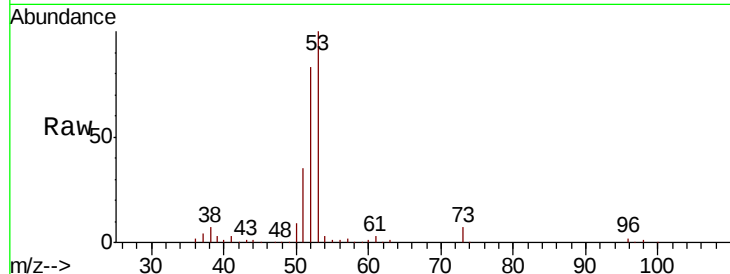
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	475562
Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.2	99.2
51	36.0	28.6	42.8

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM



#16

Acetone

Concen: 264.296 ug/l

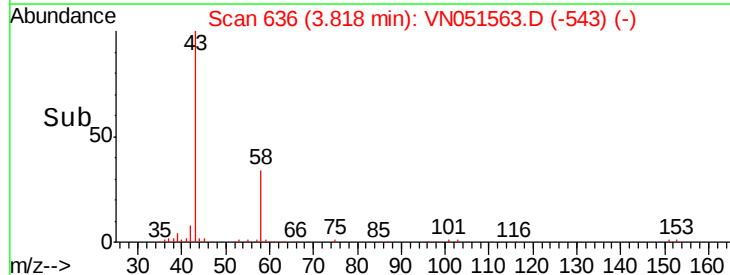
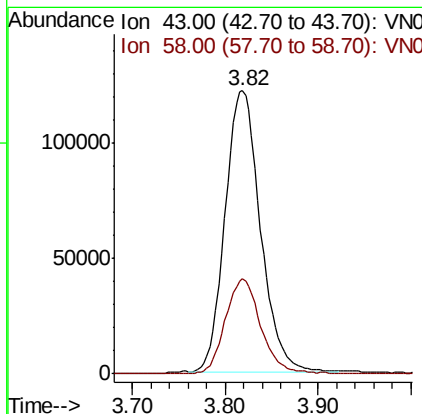
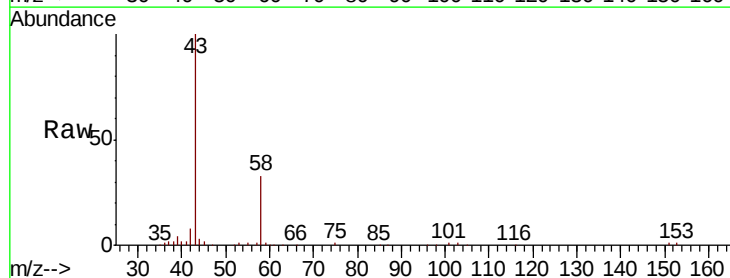
RT: 3.82 min Scan# 636

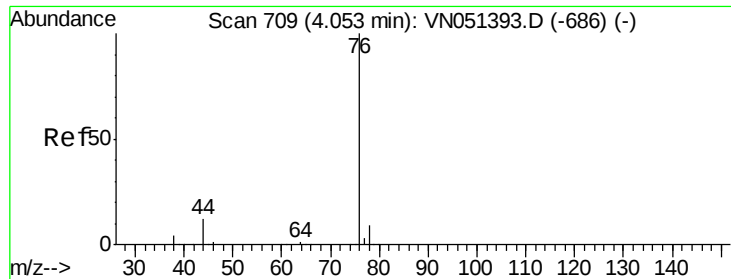
Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Tgt Ion:	43	Resp:	321290
Ion	Ratio	Lower	Upper
43	100		
58	33.5	25.0	37.4





#17

Carbon Disulfide

Concen: 36.338 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Tot Ion: 76 Resp: 521413

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9

Instrument :

MSVOA_N

ClientSampleId :

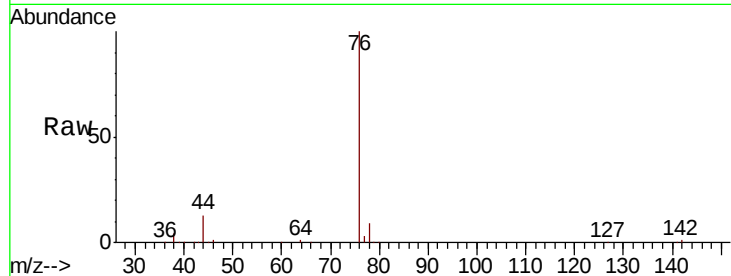
VSTDCCC050

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.05

200000

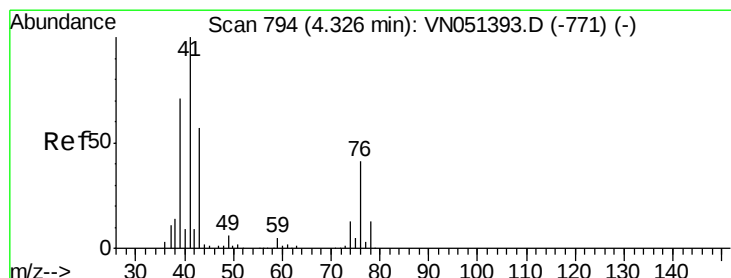
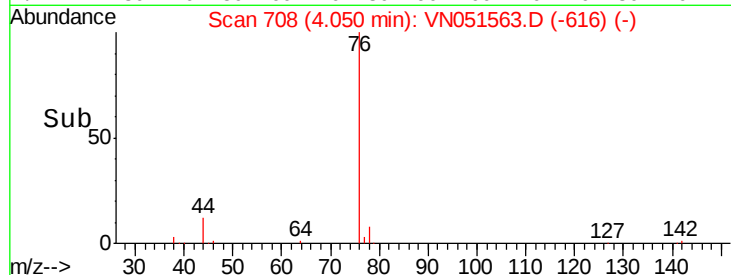
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 61.068 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051563.D

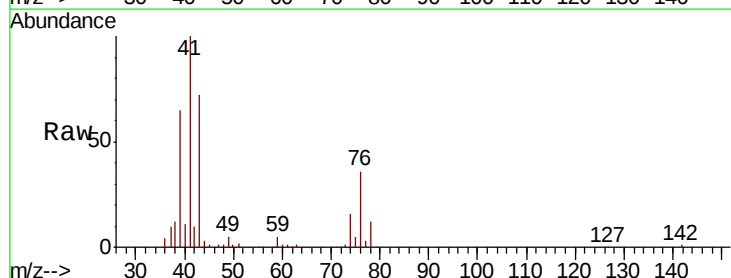
Acq: 27 Sep 2018 4:44

Tgt Ion: 43 Resp: 255751

Ion Ratio Lower Upper

43 100

74 22.6 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.33

100000

80000

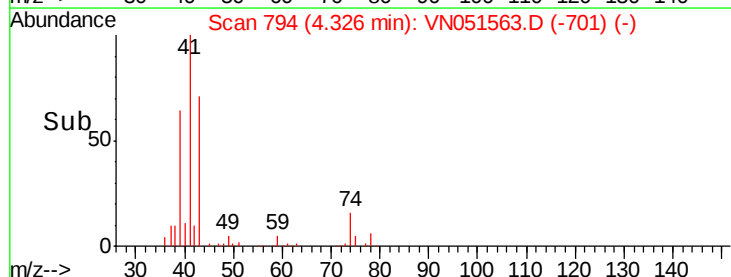
60000

40000

20000

0

Time-->





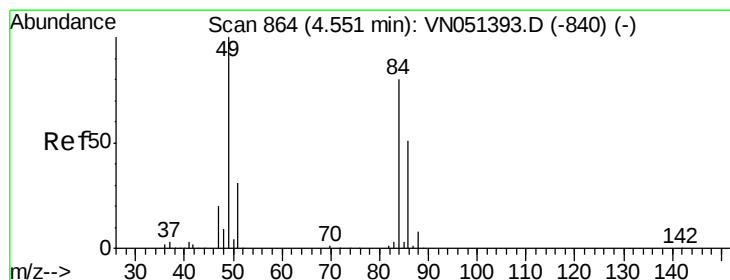
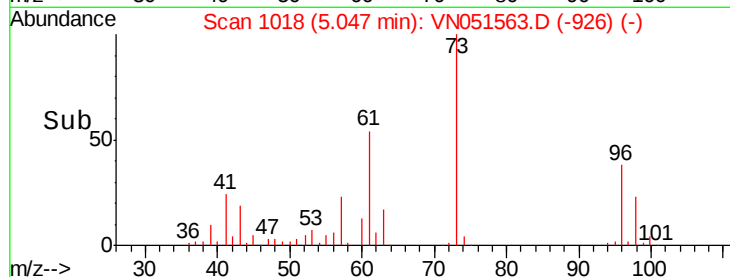
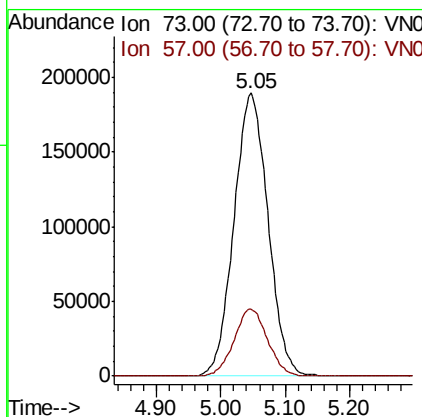
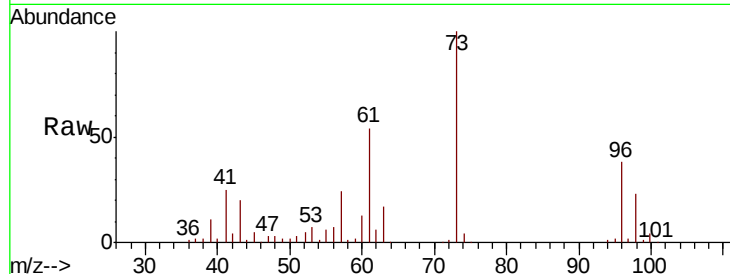
#19
Methvl tert-butvl Ether
Concen: 55.198 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 695188
Ion Ratio Lower Upper
73 100
57 23.7 18.3 27.5

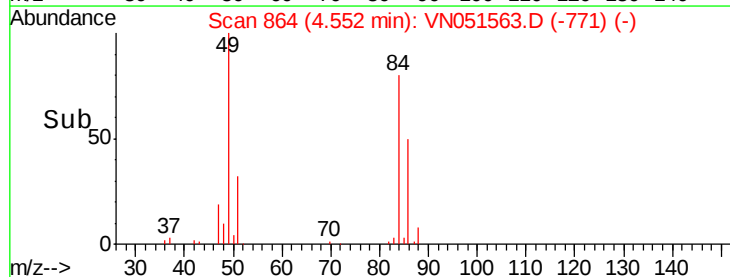
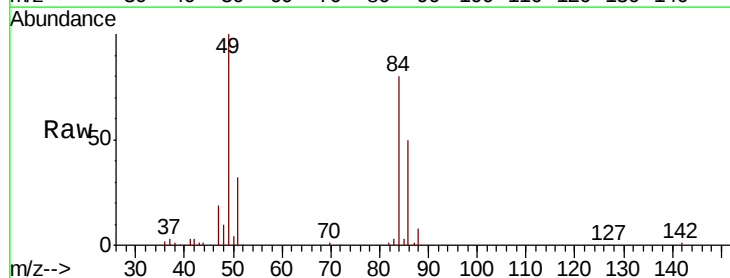
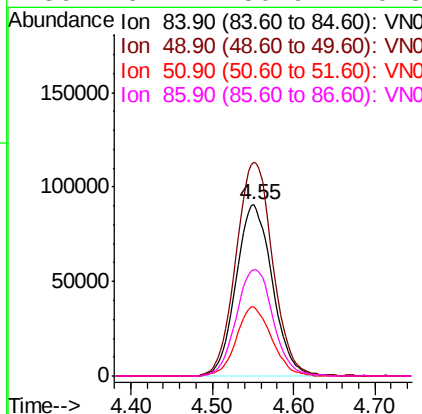
Manual Integrations
APPROVED

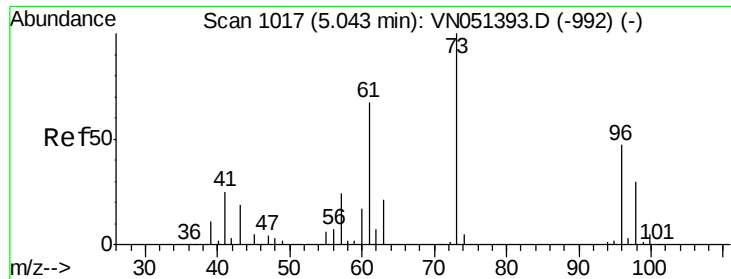
MMDadoda
9/27/2018 3:18:44 PM



#20
Methylene Chloride
Concen: 51.373 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion: 84 Resp: 279544
Ion Ratio Lower Upper
84 100
49 124.8 99.9 149.9
51 40.5 31.4 47.2
86 62.4 50.9 76.3





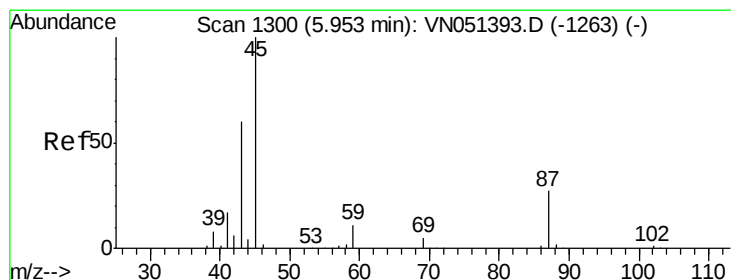
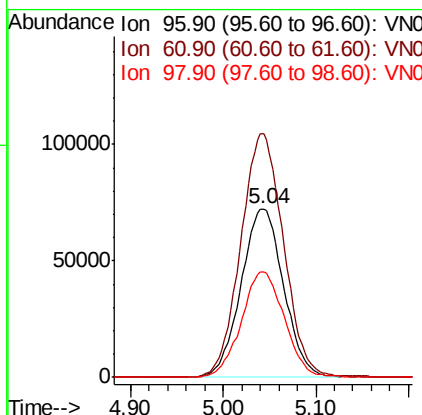
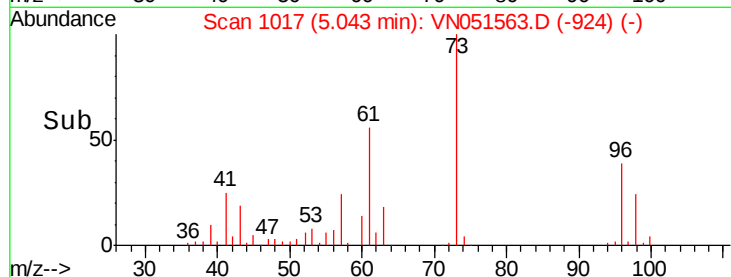
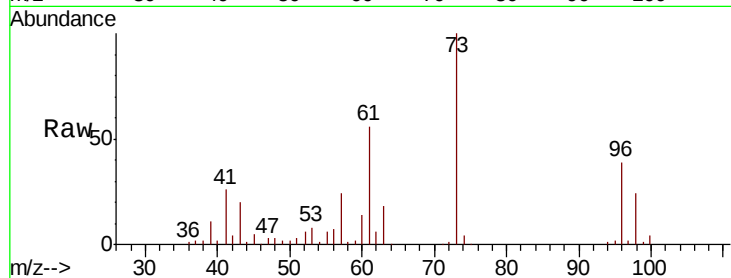
#21
trans-1,2-Dichloroethene
Concen: 46.157 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.4	113.4	170.2
98	62.7	51.1	76.7

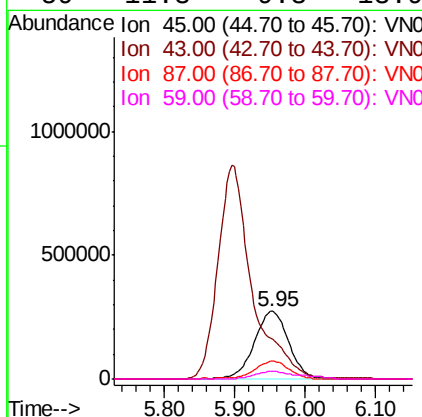
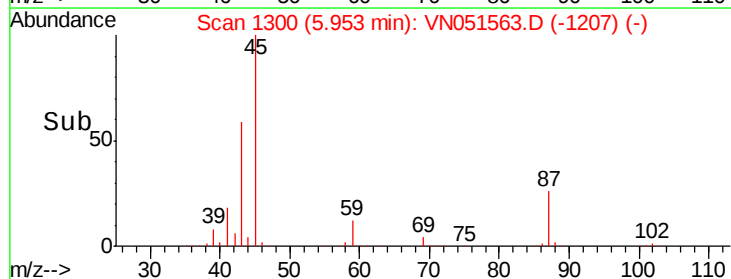
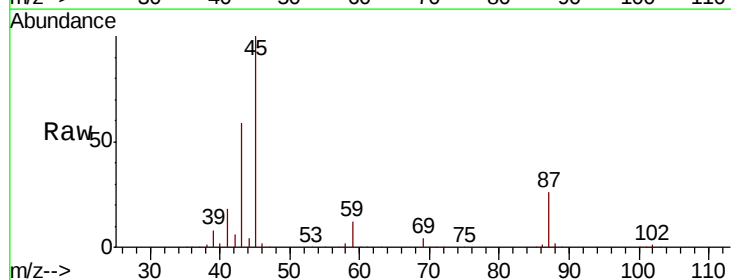
Manual Integrations
APPROVED

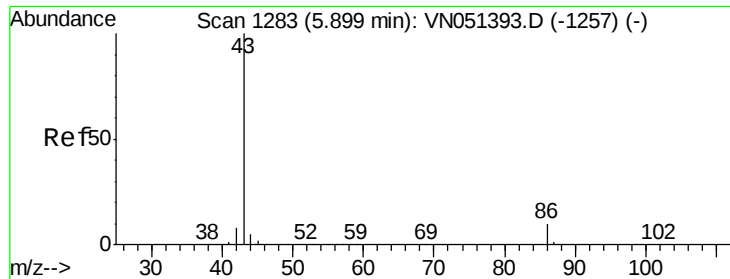
MMDadoda
9/27/2018 3:18:44 PM



#22
Diisopropyl ether
Concen: 58.651 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.5	47.7	71.5
87	26.3	22.0	33.0
59	11.3	9.3	13.9





#23

Vinyl Acetate

Concen: 282.769 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2940520

Ion Ratio Lower Upper

43 100

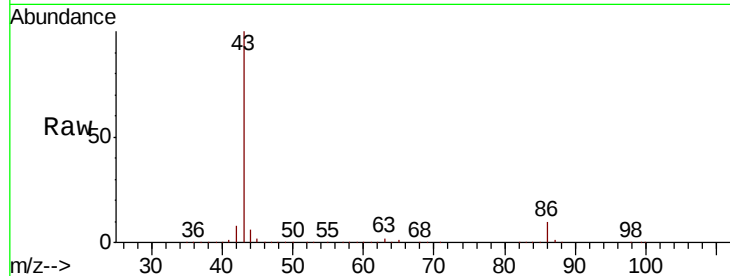
86 9.8 8.2 12.2

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



Abundance Ion 43.00 (42.70 to 43.70): VN051563.D (-1190) (-)

Ion 86.00 (85.70 to 86.70): VN051563.D (-1190) (-)

1000000

800000

600000

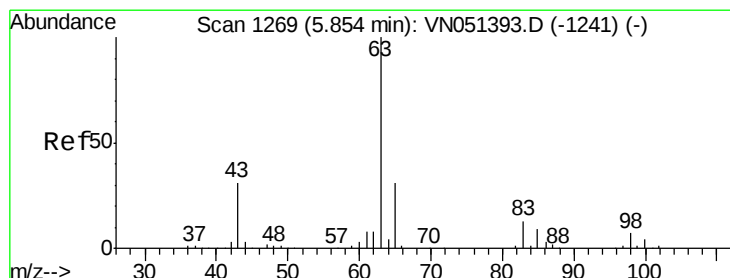
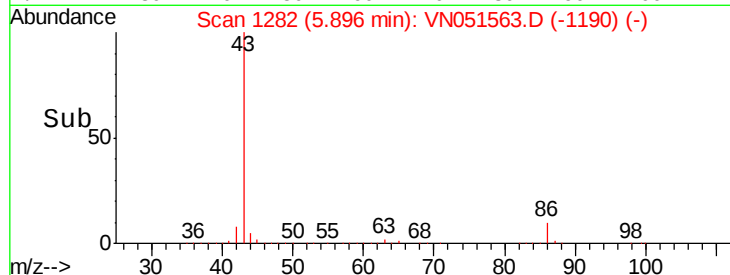
400000

200000

0

5.80 5.90 6.00 6.20

Time-->



#24

1,1-Dichloroethane

Concen: 52.919 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

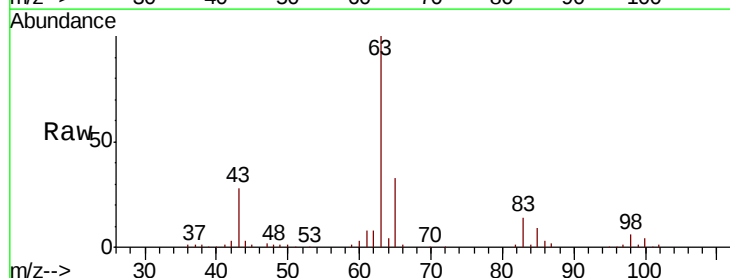
Tgt Ion: 63 Resp: 500128

Ion Ratio Lower Upper

63 100

98 6.4 3.4 10.1

100 4.2 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN051563.D (-1176) (-)

Ion 97.90 (97.60 to 98.60): VN051563.D (-1176) (-)

Ion 99.90 (99.60 to 100.60): VN051563.D (-1176) (-)

200000

150000

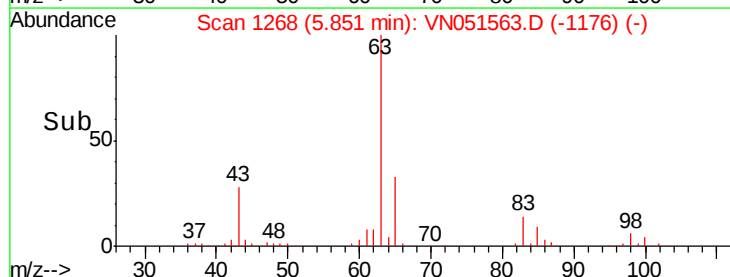
100000

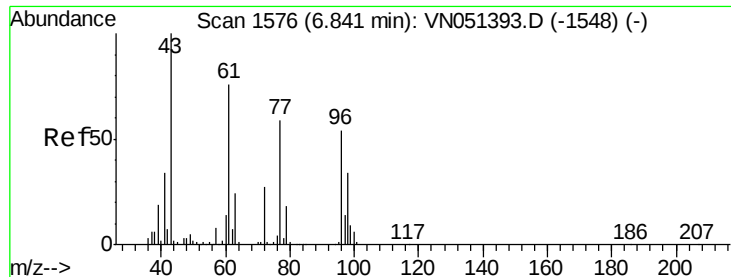
50000

0

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 273.363 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 514506

Ion Ratio Lower Upper

43 100

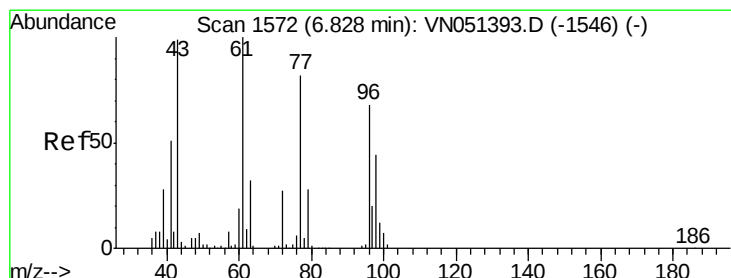
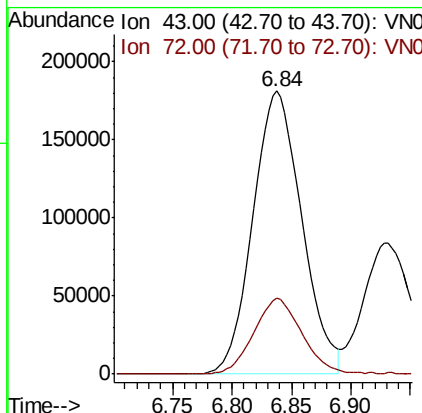
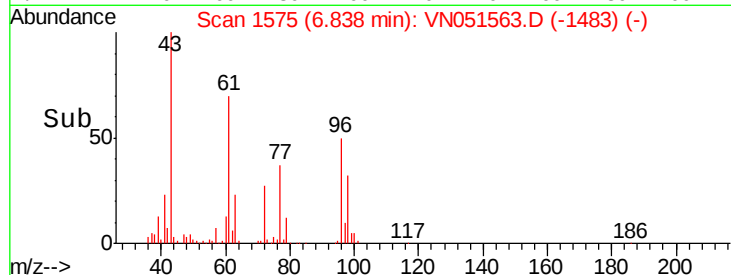
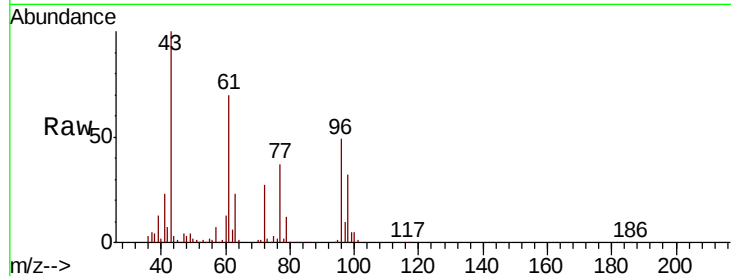
72 26.9 21.8 32.6

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



#26

2,2-Dichloropropane

Concen: 34.714 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN051563.D

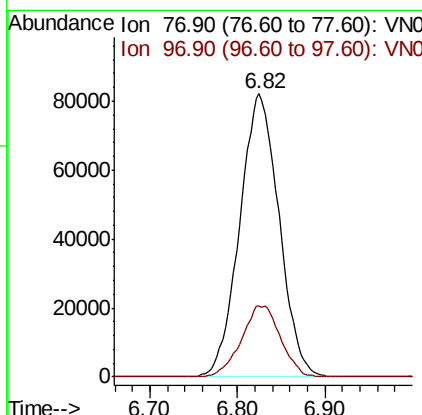
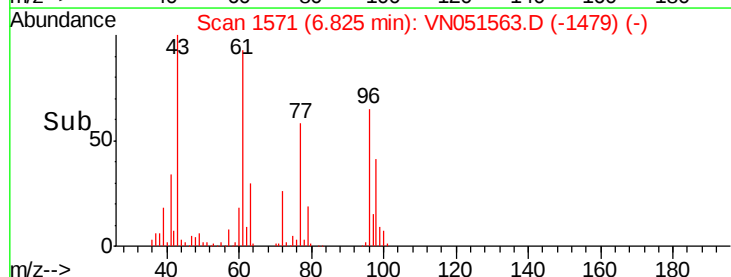
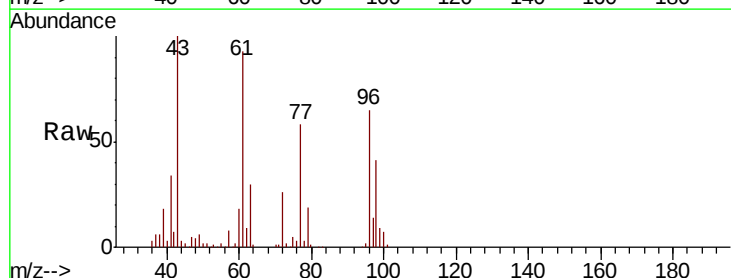
Acq: 27 Sep 2018 4:44

Tgt Ion: 77 Resp: 256098

Ion Ratio Lower Upper

77 100

97 25.0 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 50.726 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

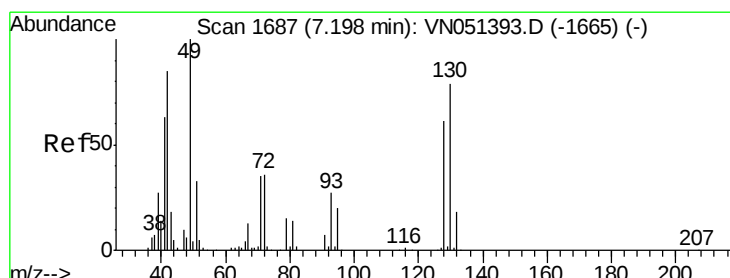
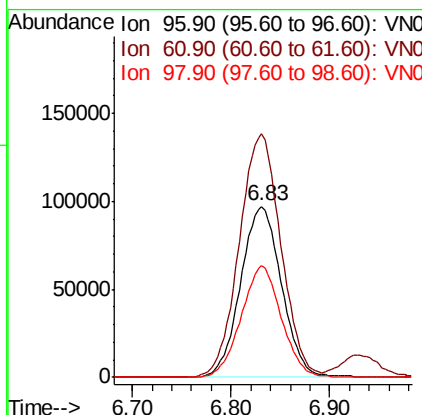
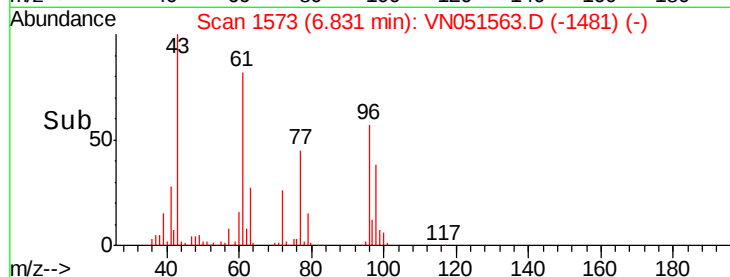
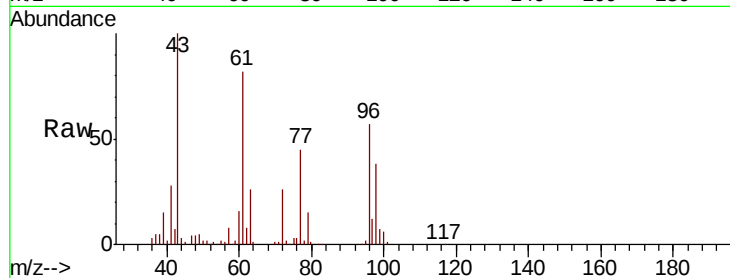
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	278092
Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	291.4
98	64.3	0.0	128.4

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM



#28

Bromochloromethane

Concen: 61.314 ug/l

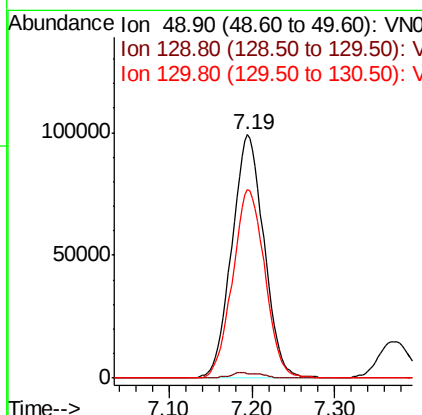
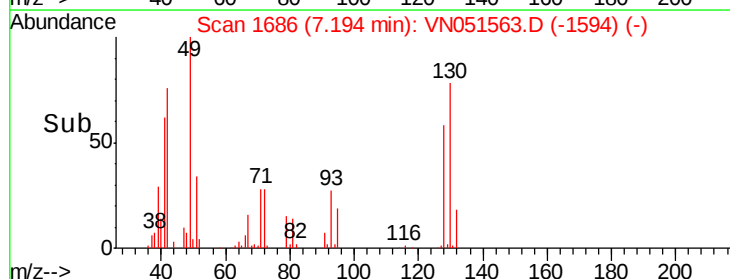
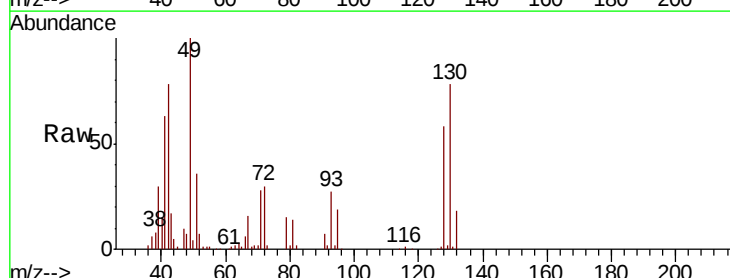
RT: 7.19 min Scan# 1686

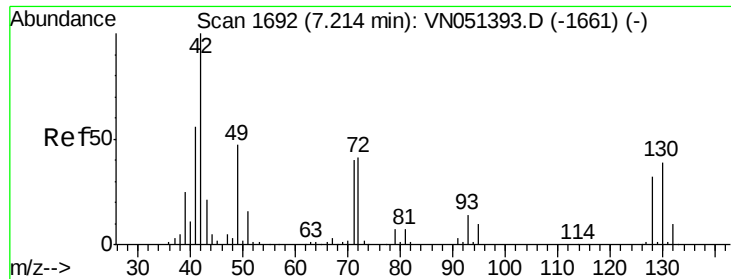
Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Tgt Ion:	49	Resp:	267596
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	3.8
130	77.4	63.0	94.4





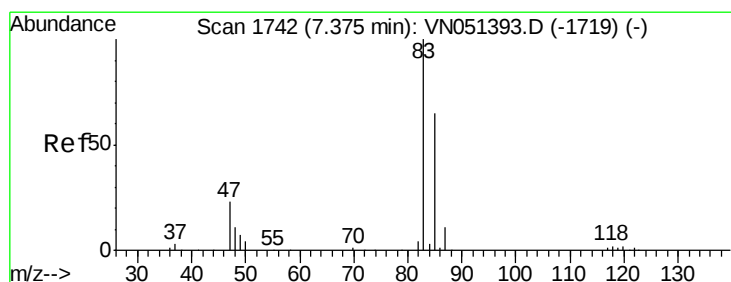
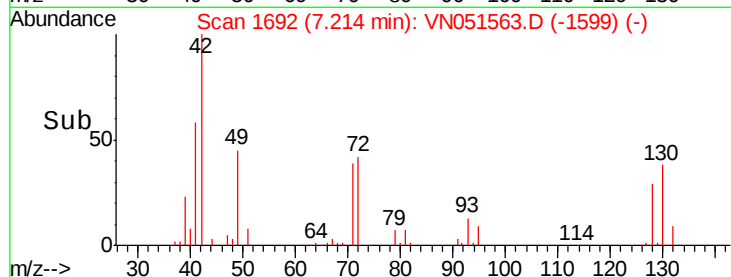
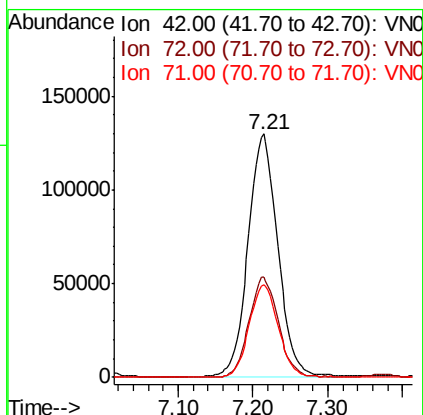
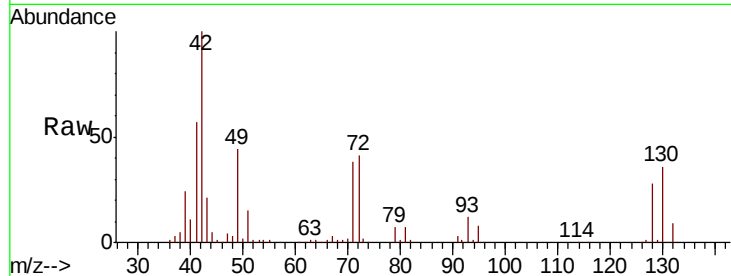
#29
Tetrahydrofuran
Concen: 301.566 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.6	34.3	51.5
71	37.5	32.2	48.4

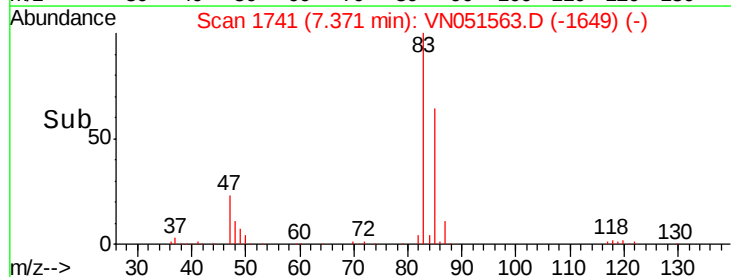
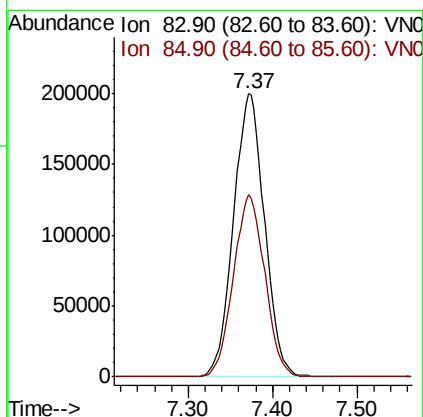
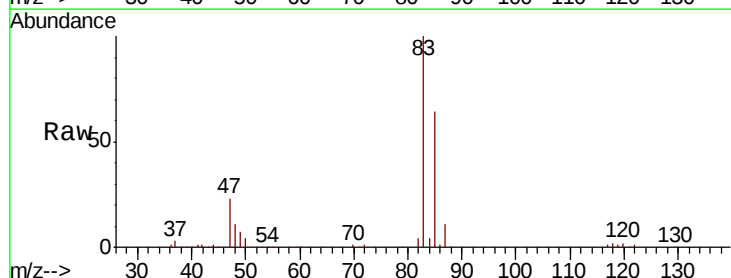
Manual Integrations
APPROVED

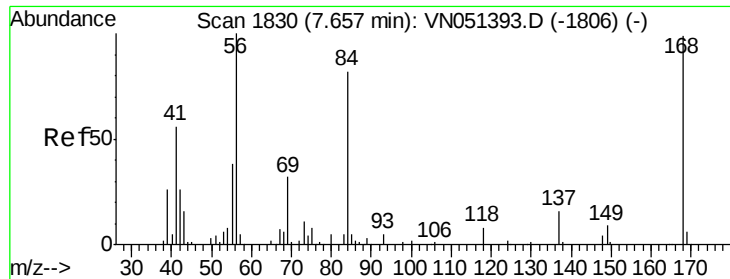
MMDadoda
9/27/2018 3:18:44 PM



#30
Chloroform
Concen: 54.707 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.8	77.6





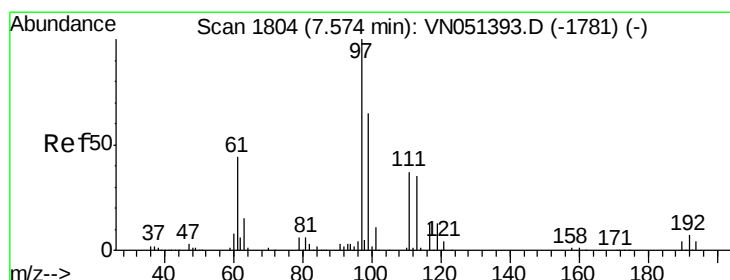
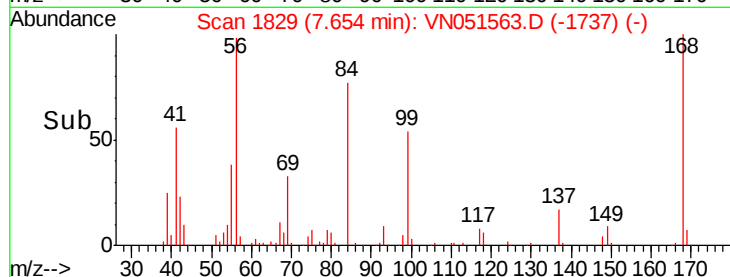
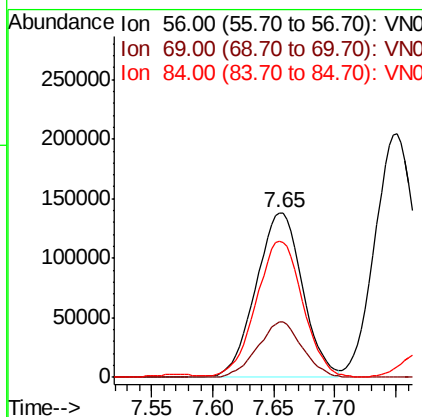
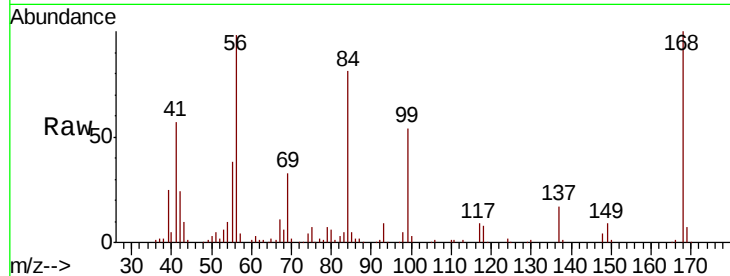
#31
Cyclohexane
Concen: 42.403 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.7	25.8	38.6
84	81.2	66.0	99.0

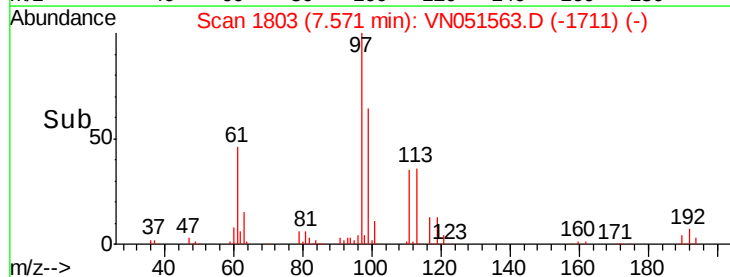
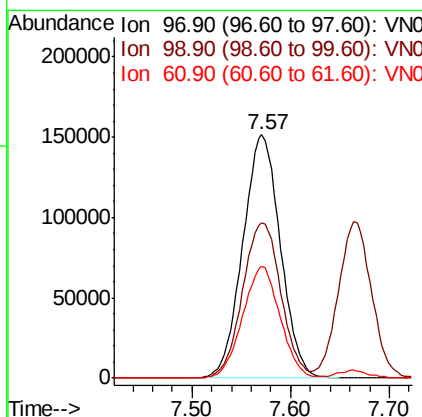
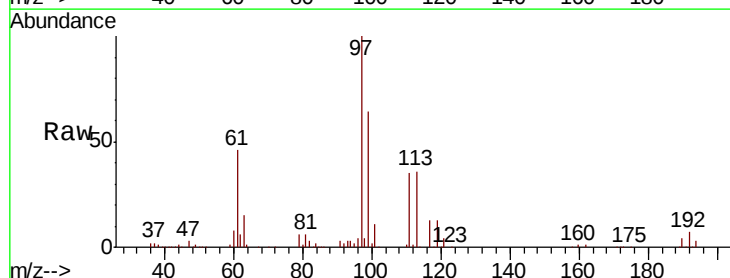
Manual Integrations
APPROVED

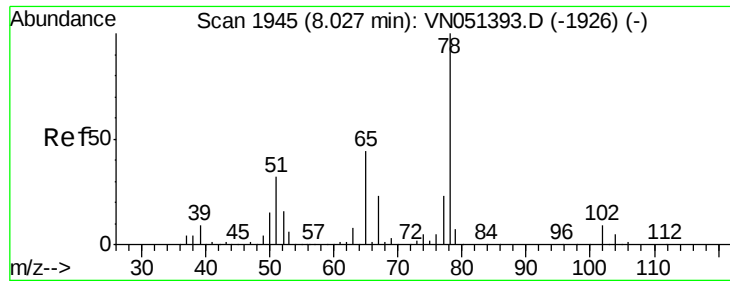
MMDadoda
9/27/2018 3:18:44 PM



#32
1,1,1-Trichloroethane
Concen: 49.884 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.4	77.0
61	45.8	35.8	53.8





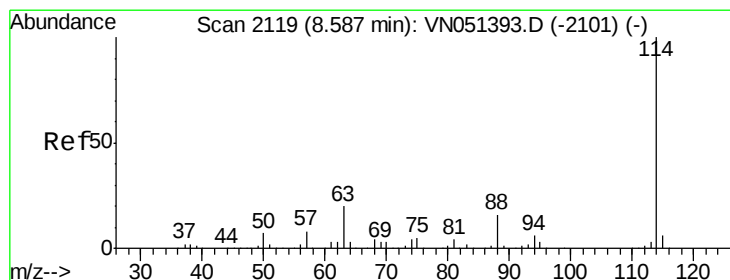
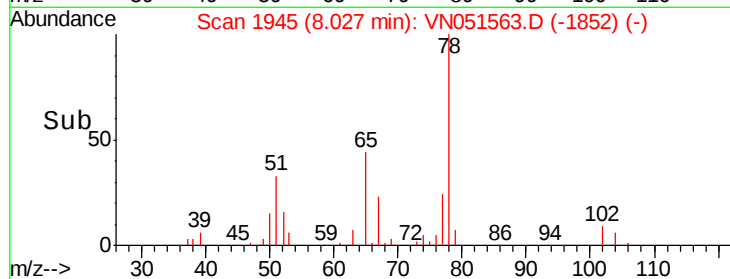
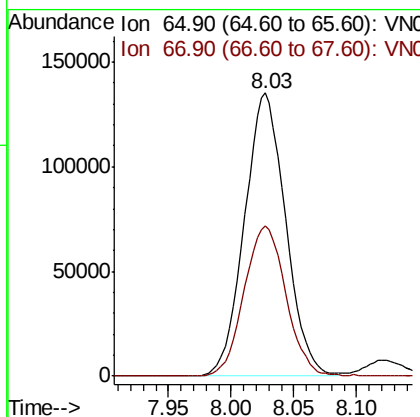
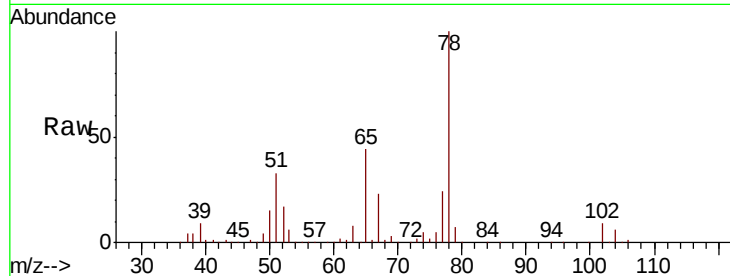
#33
 1,2-Dichloroethane-d4
 Concen: 56.202 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	309052		
67	53.7	0.0	107.8	

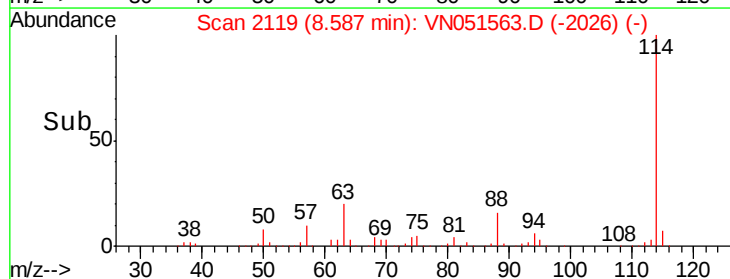
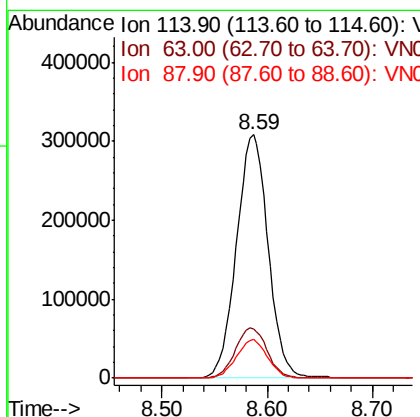
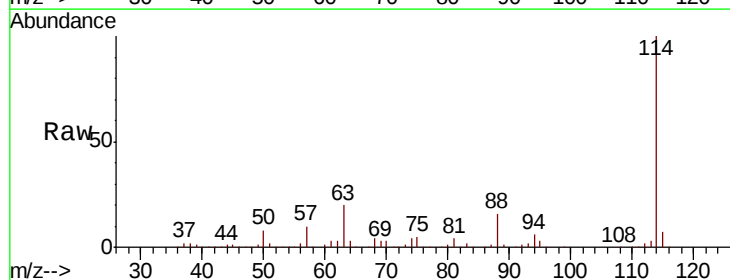
Manual Integrations
 APPROVED

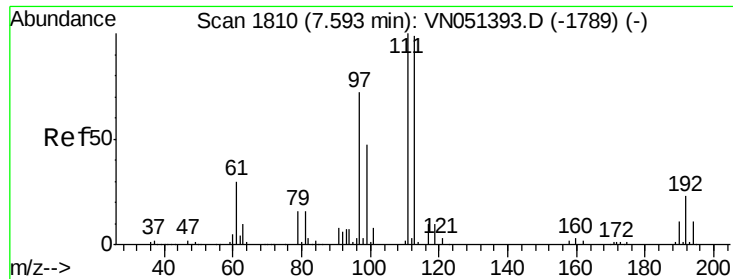
MMDadoda
 9/27/2018 3:18:44 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	642164		
63	20.4	0.0	40.2	
88	15.7	0.0	31.4	





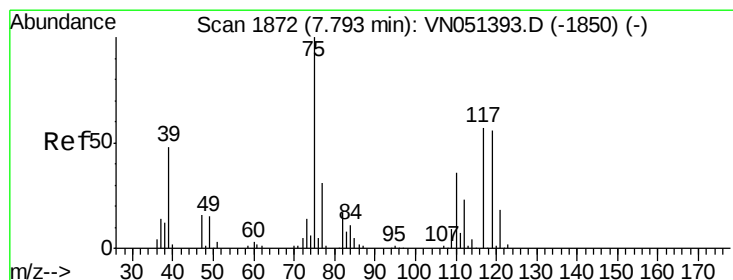
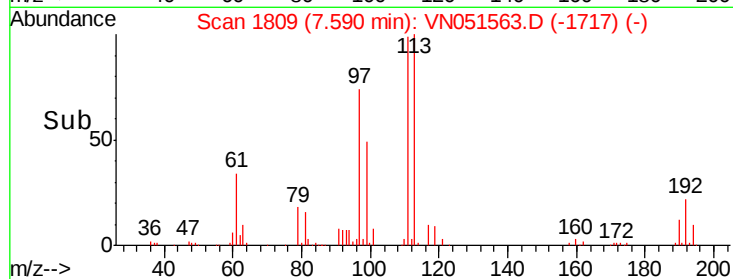
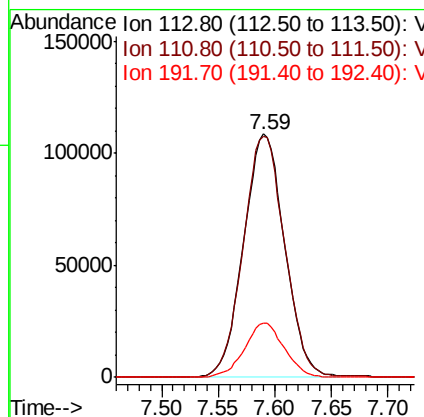
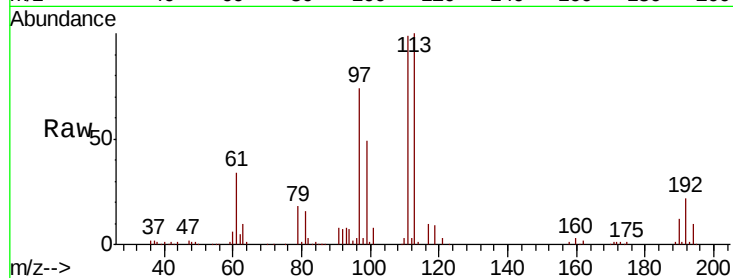
#35
 Dibromofluoromethane
 Concen: 53.389 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	274158		
111	100.1	82.6	123.8	
192	21.5	18.0	27.0	

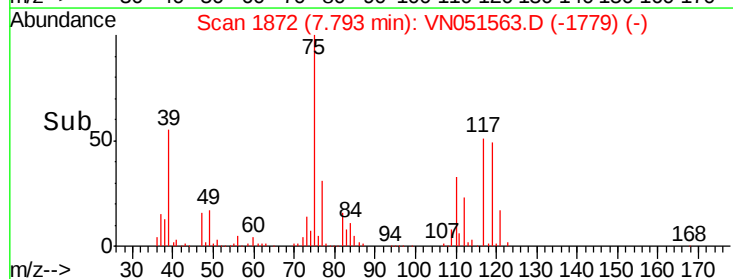
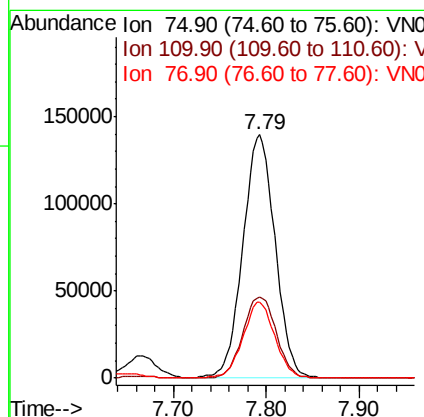
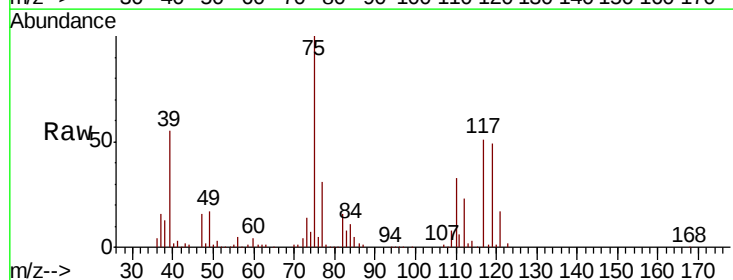
Manual Integrations
 APPROVED

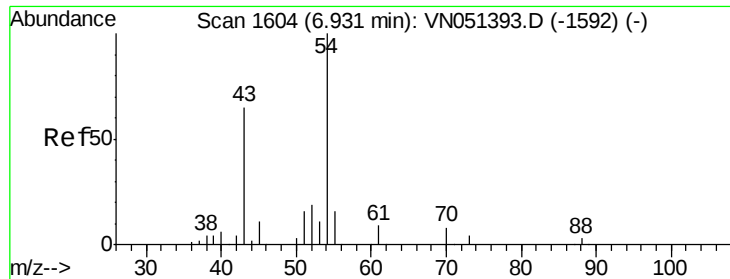
MMDadoda
 9/27/2018 3:18:44 PM



#36
 1,1-Dichloropropene
 Concen: 45.106 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	335426		
110	34.5	18.1	54.3	
77	31.1	25.6	38.4	





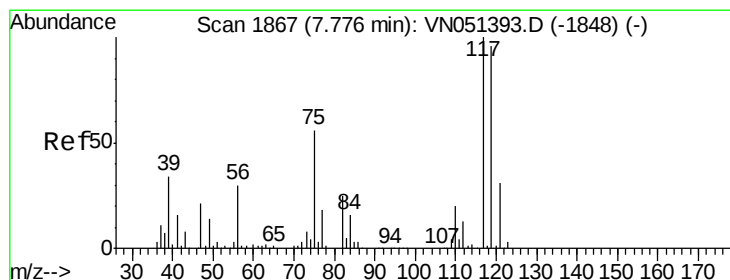
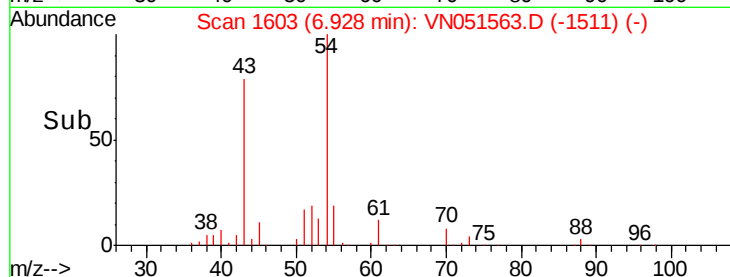
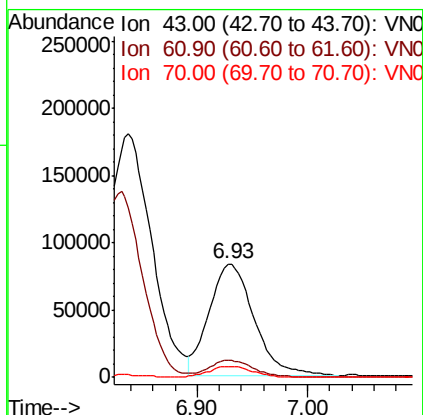
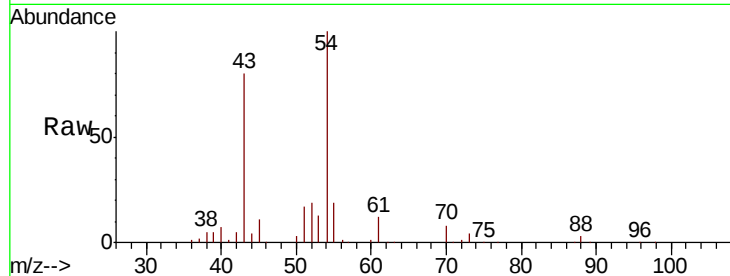
#37
Ethyl Acetate
Concen: 55.192 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.5	17.3
70	10.1	7.9	11.9

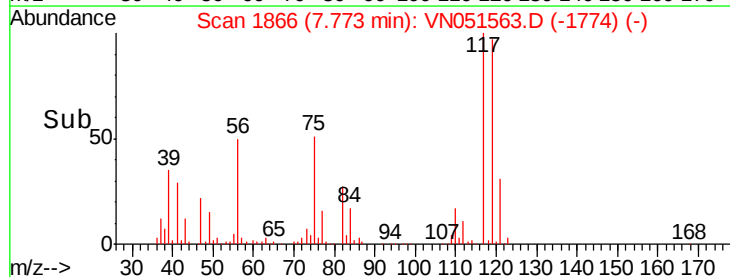
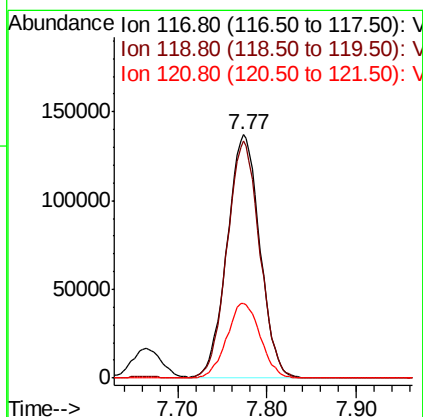
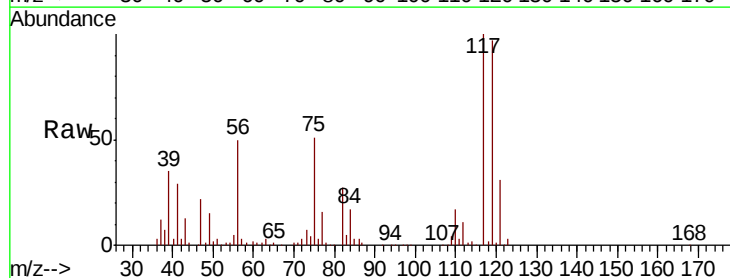
Manual Integrations
APPROVED

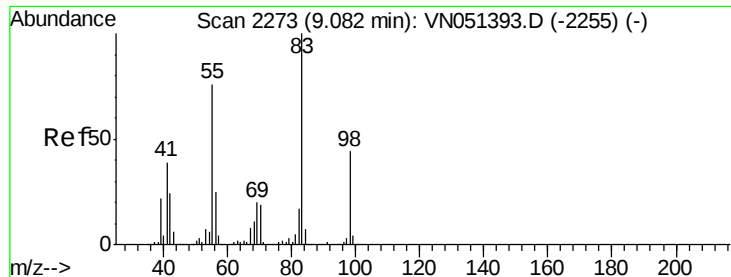
MMDadoda
9/27/2018 3:18:44 PM



#38
Carbon Tetrachloride
Concen: 44.904 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.9	115.3
121	30.9	24.6	37.0





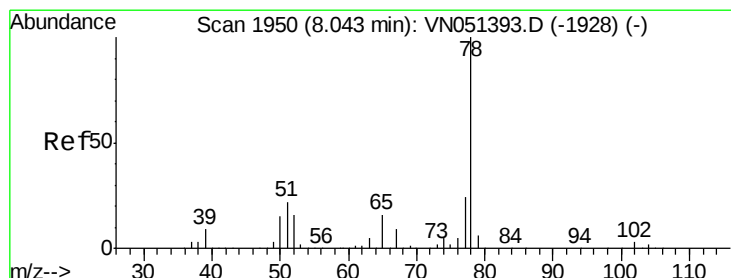
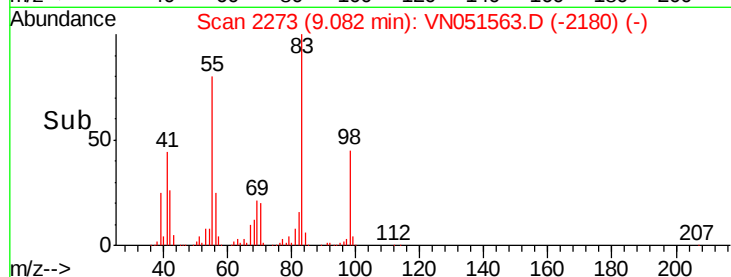
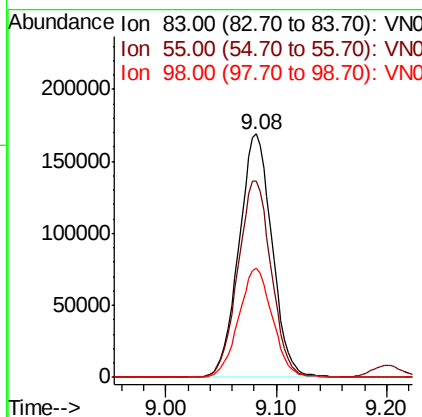
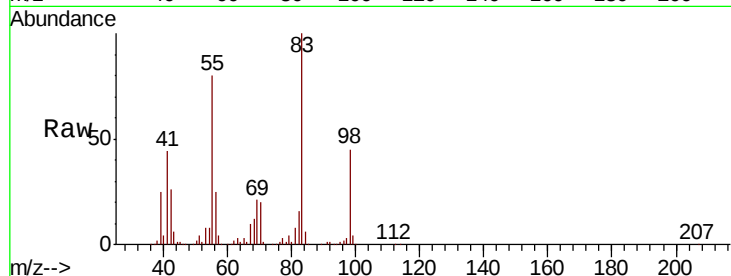
#39
Methvlcvclohexane
Concen: 40.409 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83.00	Resp	351284
Ion Ratio	Lower	Upper	
83	100		
55	80.4	61.0	91.4
98	44.7	35.6	53.4

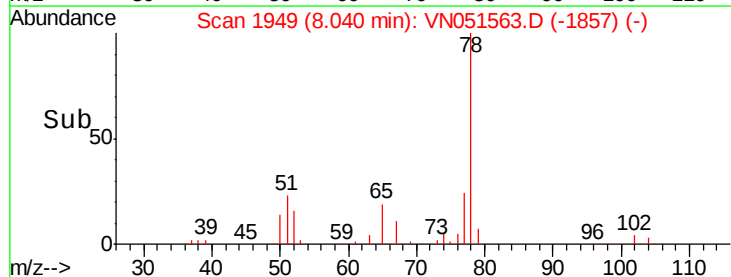
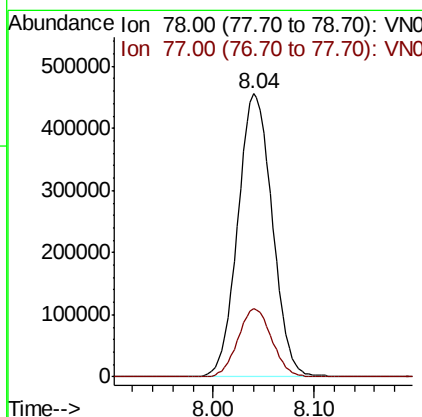
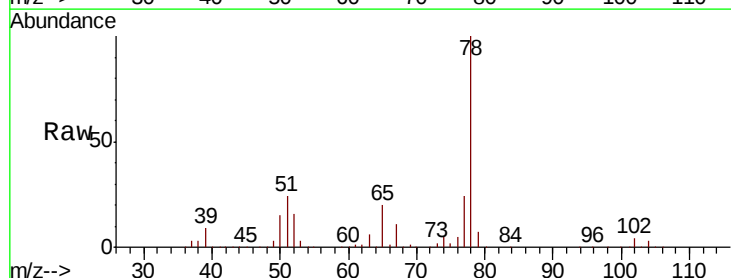
Manual Integrations
APPROVED

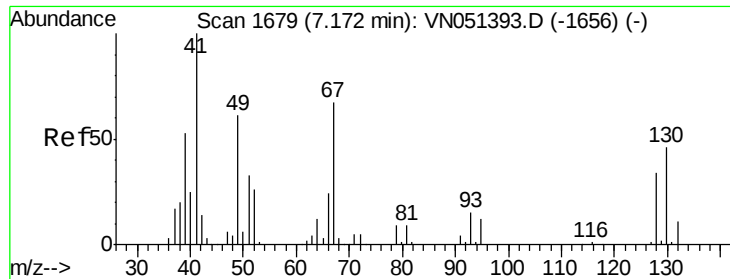
MMDadoda
9/27/2018 3:18:44 PM



#40
Benzene
Concen: 49.426 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	78.00	Resp	1079210
Ion Ratio	Lower	Upper	
78	100		
77	24.0	19.2	28.8





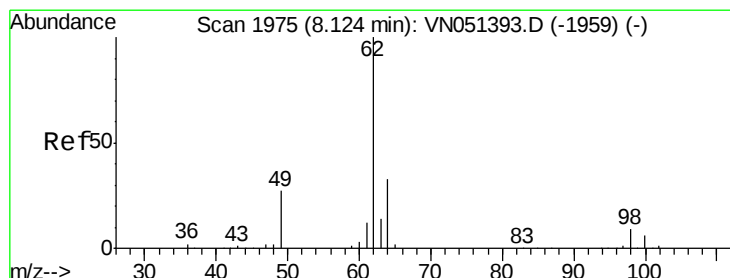
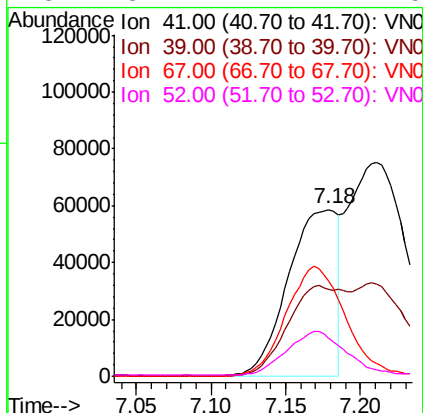
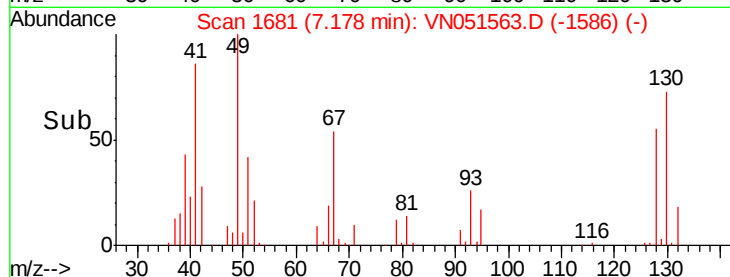
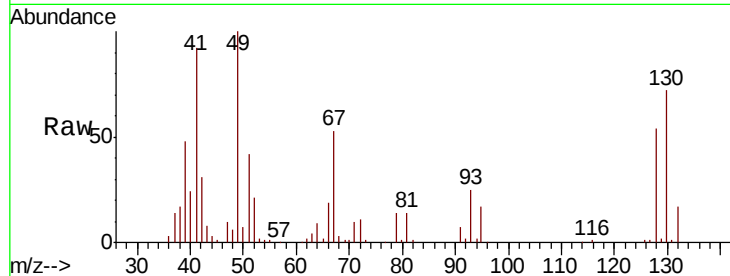
#41
Methacrylonitrile
Concen: 56.891 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	41	Resp	134574
Ion	Ratio	Lower	Upper
41	100		
39	62.5	51.4	77.2
67	79.5	66.8	100.2
52	32.2	27.7	41.5

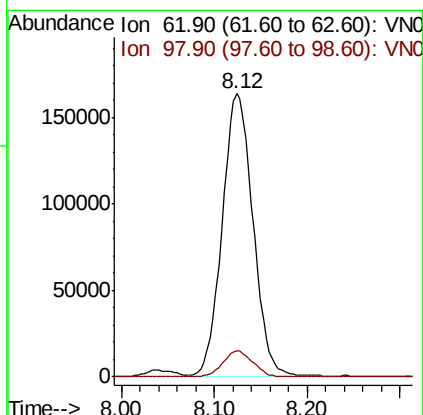
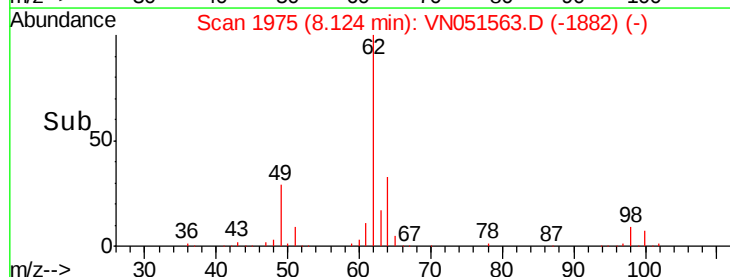
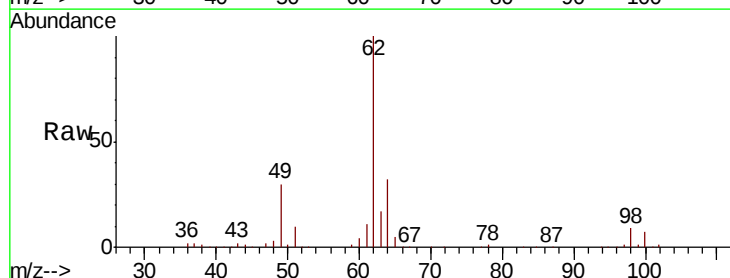
Manual Integrations
APPROVED

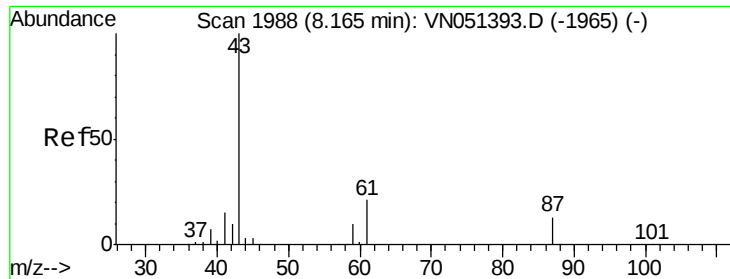
MMDadoda
9/27/2018 3:18:44 PM



#42
1,2-Dichloroethane
Concen: 53.676 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	62	Resp	375282
Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.6





#43

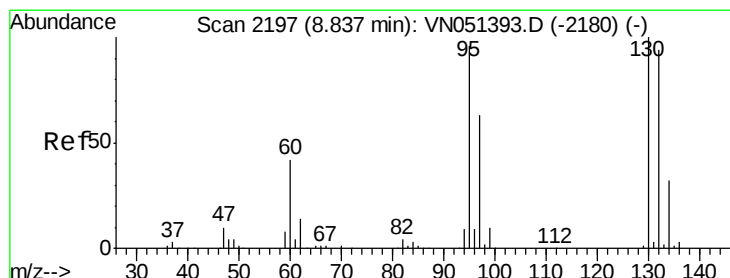
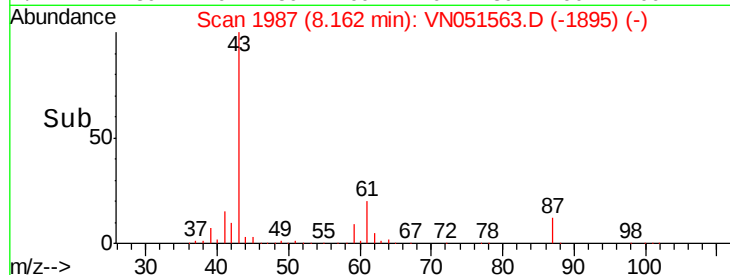
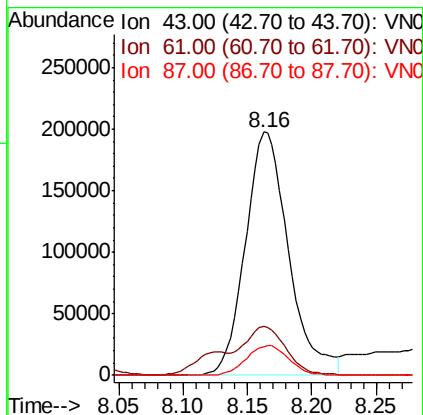
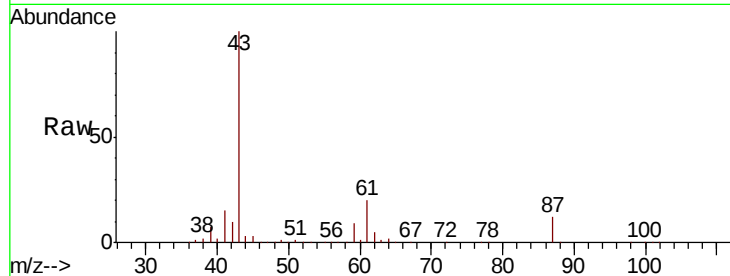
Isopropyl Acetate
 Concen: 59.613 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. -0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.5	16.8	25.2
87	12.0	10.7	16.1

Manual Integrations
 APPROVED

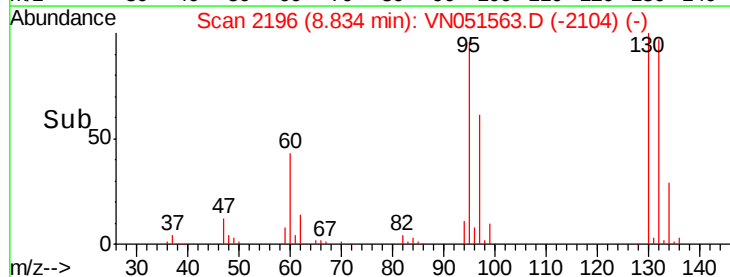
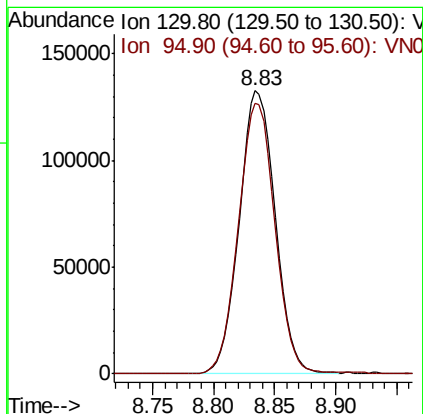
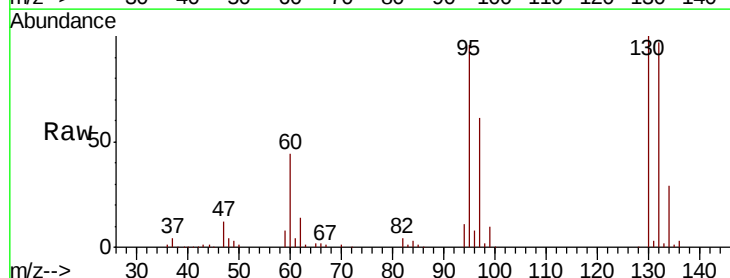
MMDadoda
 9/27/2018 3:18:44 PM

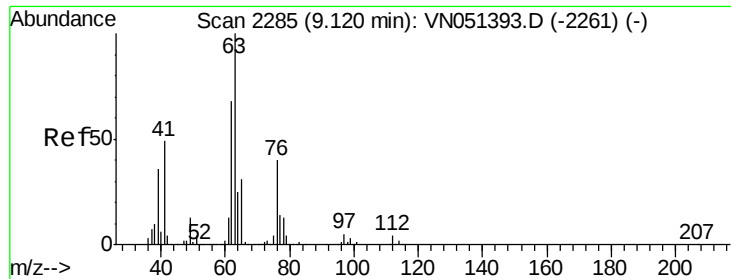


#44

Trichloroethene
 Concen: 46.562 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.8	0.0	192.2





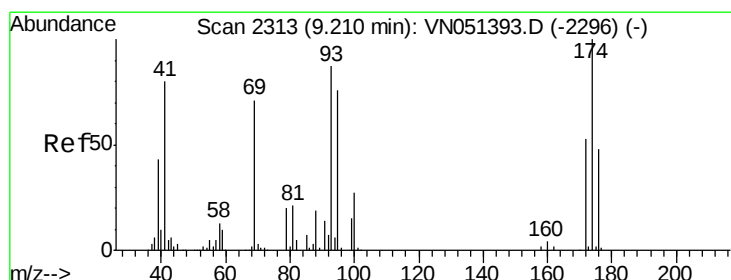
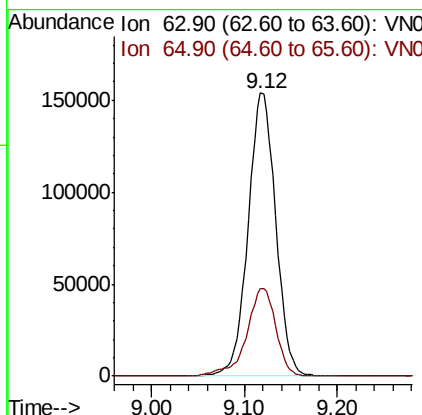
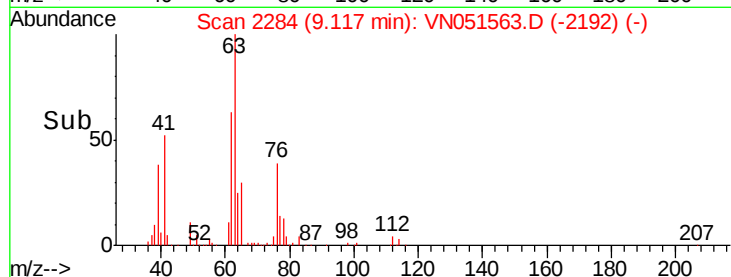
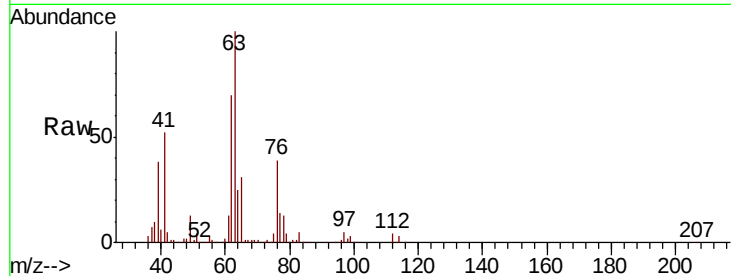
#45
 1,2-Dichloropropane
 Concen: 53.797 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 319309
 Ion Ratio Lower Upper
 63 100
 65 30.7 24.9 37.3

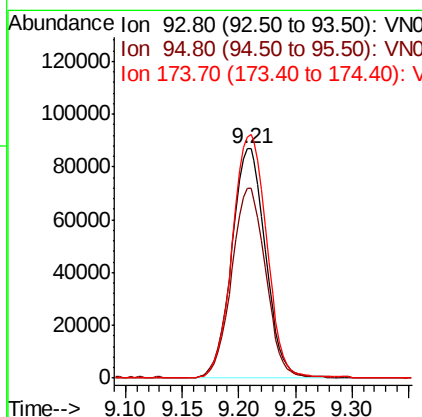
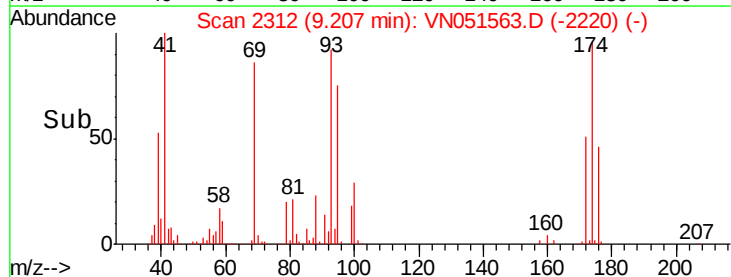
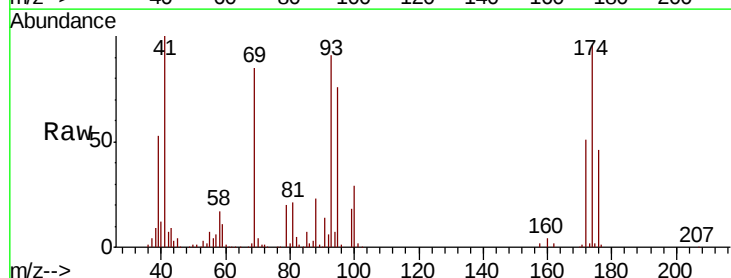
Manual Integrations
 APPROVED

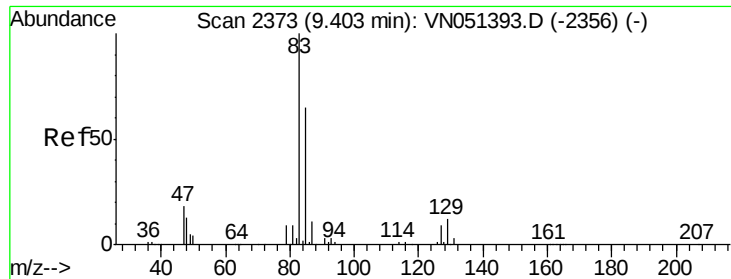
MMDadoda
 9/27/2018 3:18:44 PM



#46
 Dibromomethane
 Concen: 53.857 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion: 93 Resp: 180615
 Ion Ratio Lower Upper
 93 100
 95 83.1 67.6 101.4
 174 108.5 89.6 134.4





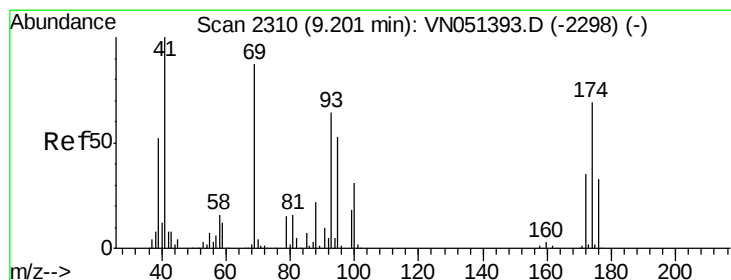
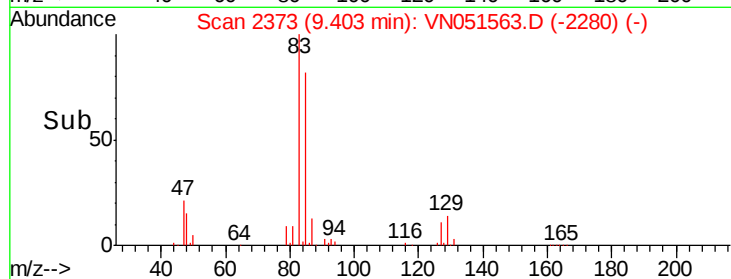
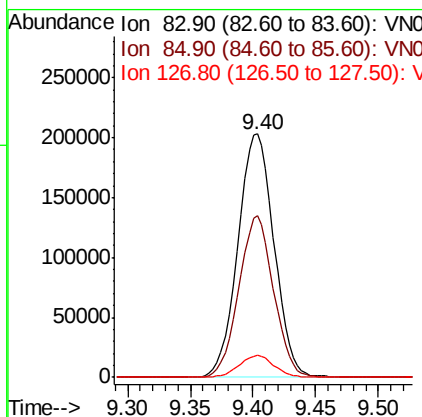
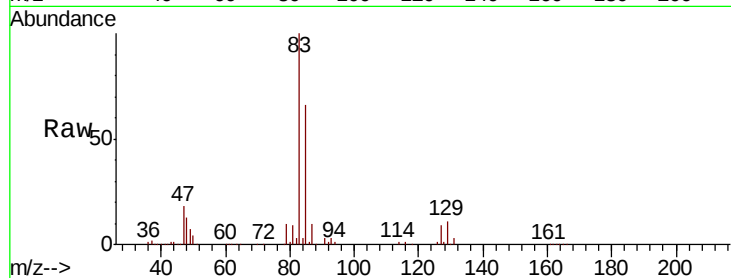
#47
Bromodichloromethane
Concen: 54.665 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	405698
Ion Ratio	100	Lower	Upper
83	100		
85	66.4	51.8	77.6
127	9.0	7.4	11.2

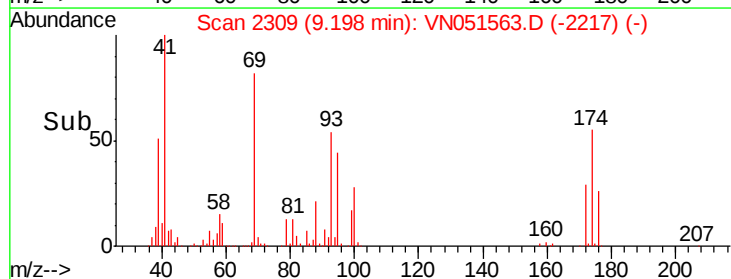
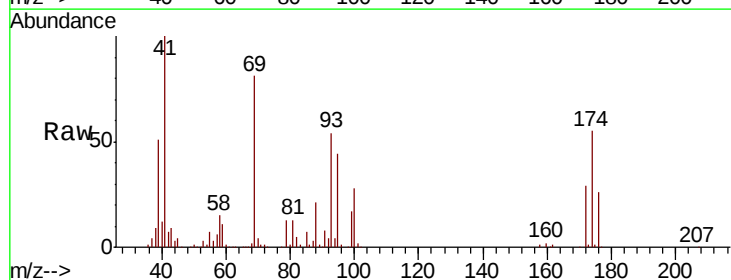
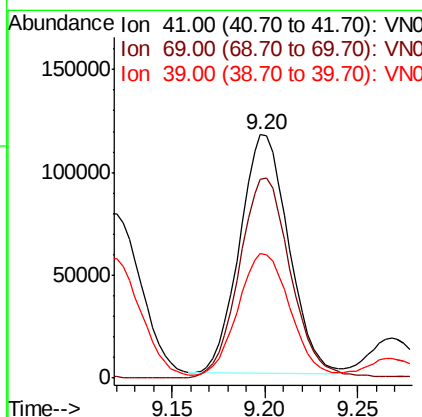
Manual Integrations
APPROVED

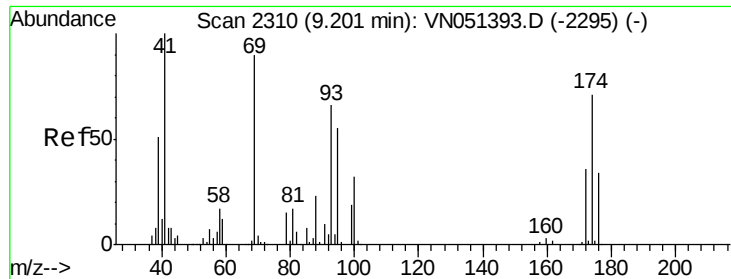
MMDadoda
9/27/2018 3:18:44 PM



#48
Methyl methacrylate
Concen: 55.574 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	41	Resp	214218
Ion Ratio	100	Lower	Upper
41	100		
69	87.7	70.4	105.6
39	55.7	43.8	65.8





#49

1,4-Dioxane

Concen: 1108.695 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 88 Resp: 52376

Ion Ratio Lower Upper

88 100

43 33.7 25.9 38.9

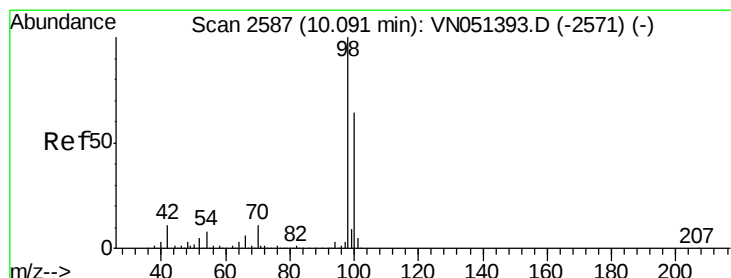
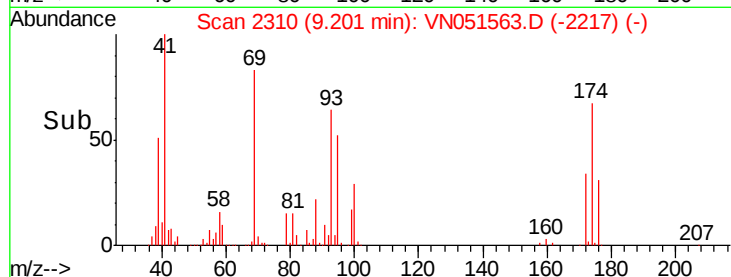
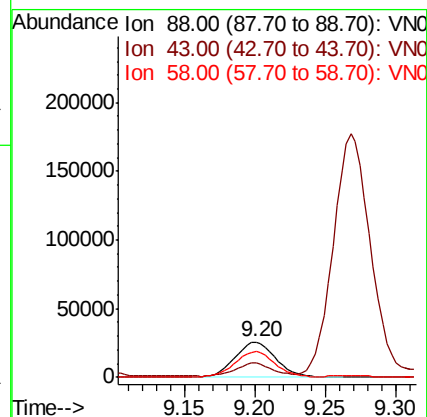
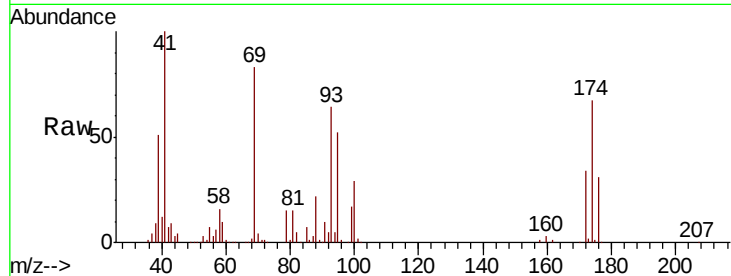
58 72.6 57.0 85.4

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



#50

Toluene-d8

Concen: 49.292 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051563.D

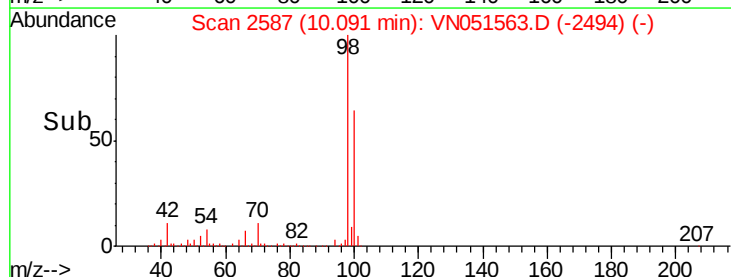
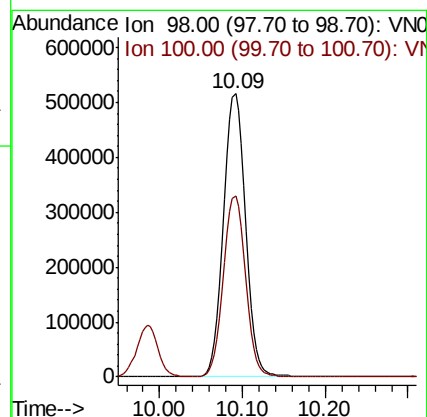
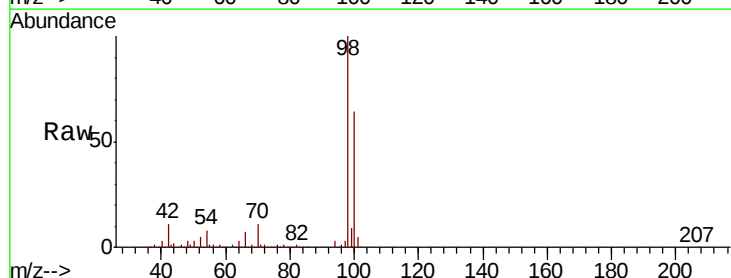
Acq: 27 Sep 2018 4:44

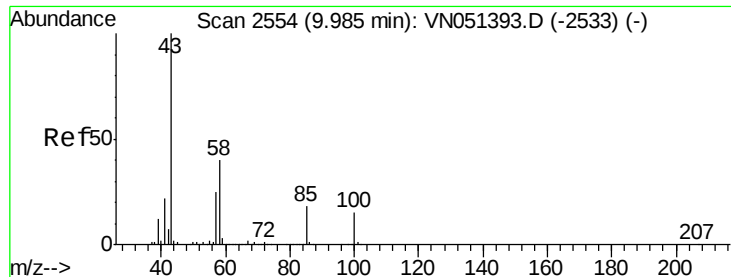
Tgt Ion: 98 Resp: 953162

Ion Ratio Lower Upper

98 100

100 64.1 50.6 75.8





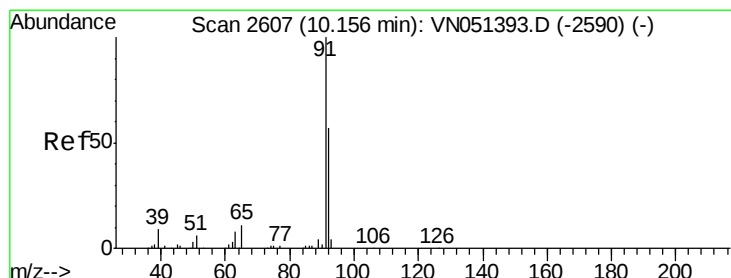
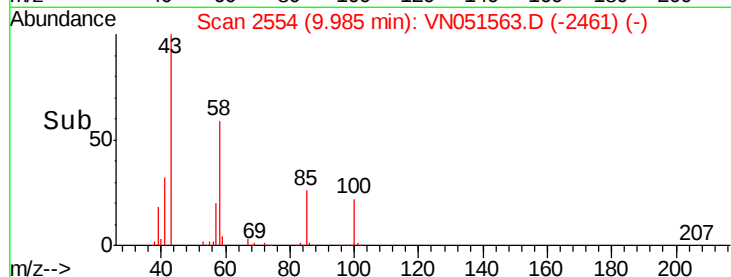
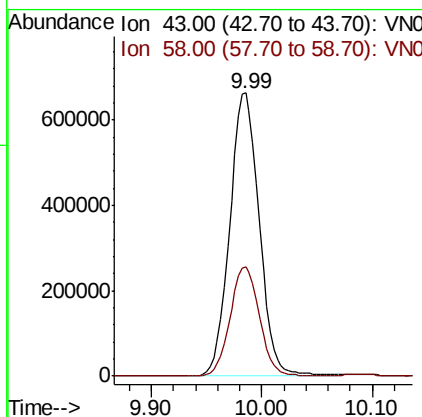
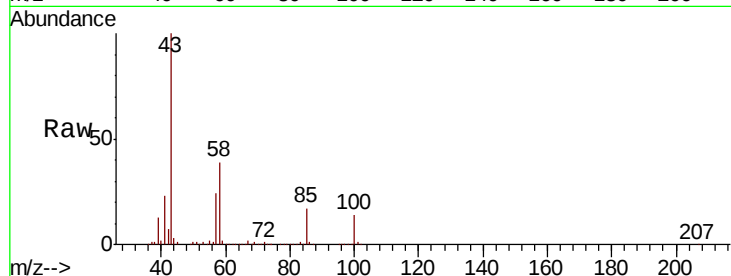
#51
 4-Methyl-2-Pentanone
 Concen: 288.337 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 1226023
 Ion Ratio Lower Upper
 43 100
 58 38.5 31.5 47.3

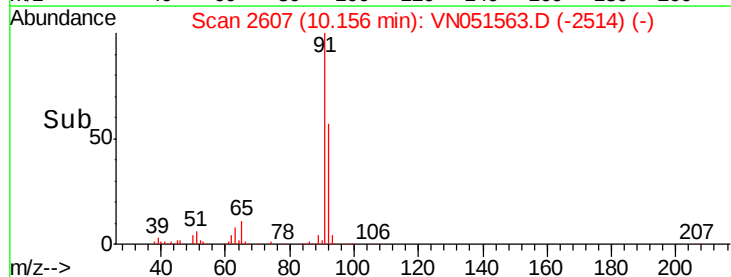
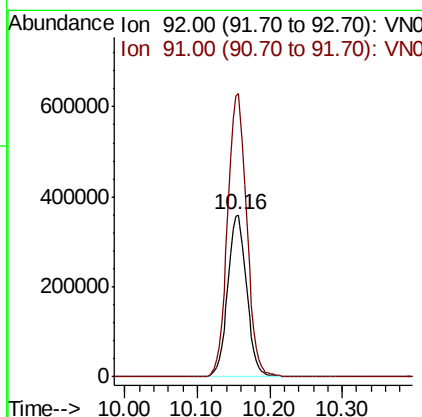
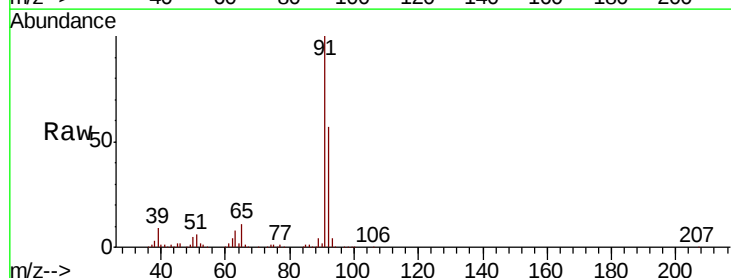
Manual Integrations
 APPROVED

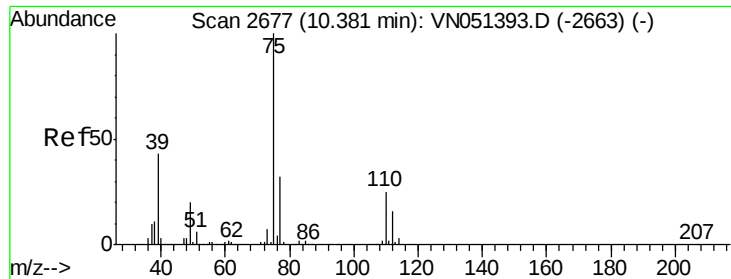
MMDadoda
 9/27/2018 3:18:44 PM



#52
 Toluene
 Concen: 48.197 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion: 92 Resp: 654013
 Ion Ratio Lower Upper
 92 100
 91 177.0 142.2 213.4





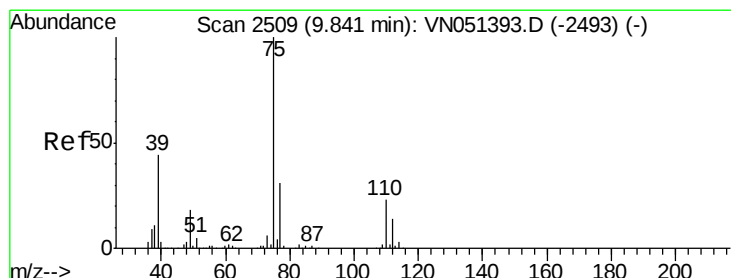
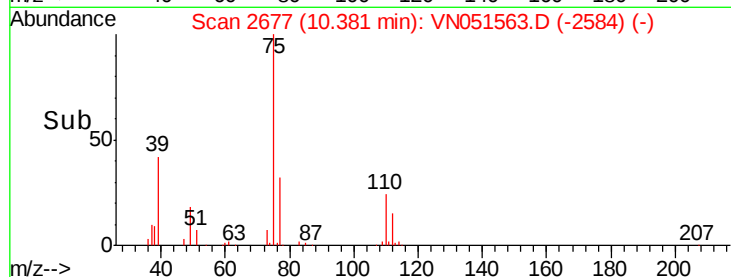
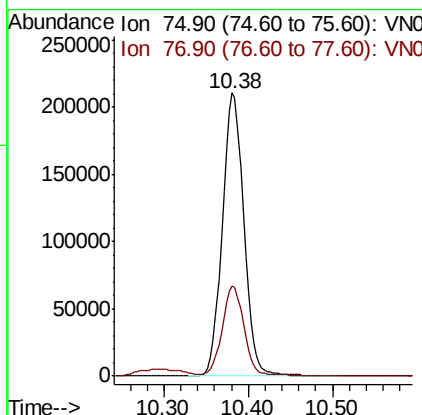
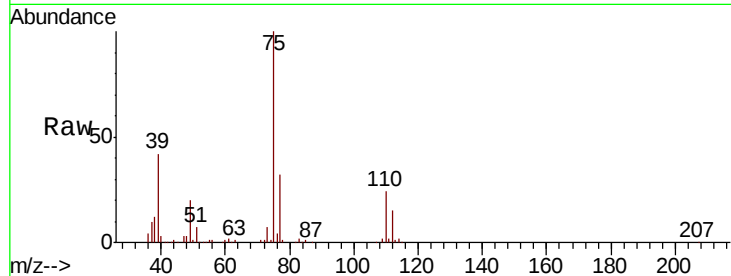
#53
t-1,3-Dichloropropene
Concen: 49.982 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 374493
Ion Ratio Lower Upper
75 100
77 31.5 25.8 38.8

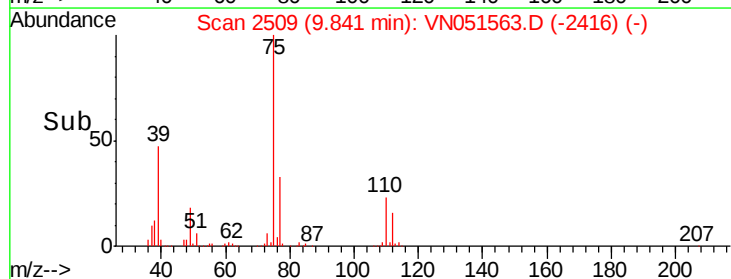
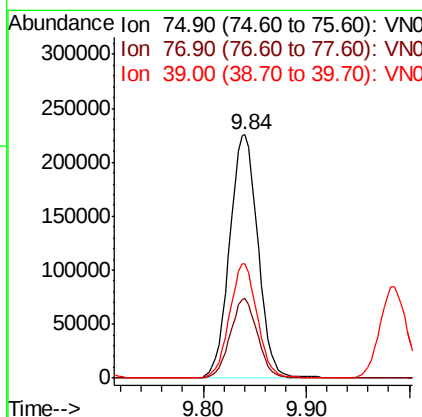
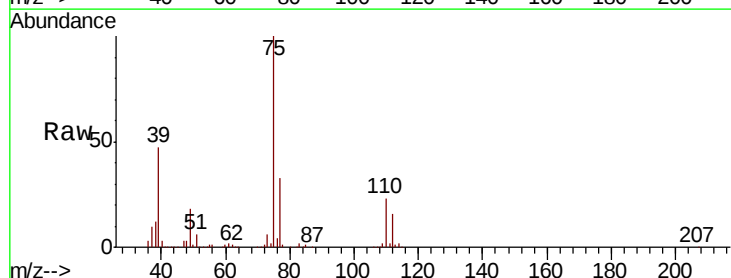
Manual Integrations
APPROVED

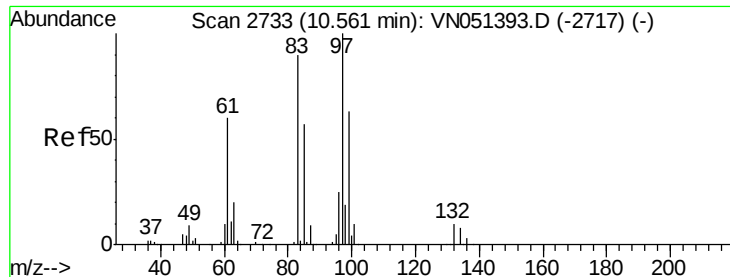
MMDadoda
9/27/2018 3:18:44 PM



#54
cis-1,3-Dichloropropene
Concen: 49.632 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion: 75 Resp: 431251
Ion Ratio Lower Upper
75 100
77 32.6 25.2 37.8
39 46.7 35.4 53.2





#55

1,1,2-Trichloroethane

Concen: 55.005 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 263784

Ion Ratio Lower Upper

97 100

83 87.8 72.0 108.0

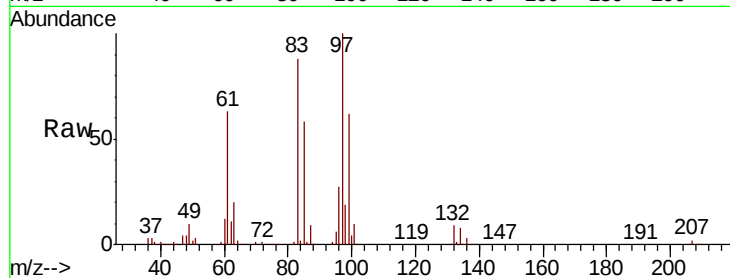
85 57.6 45.2 67.8

99 61.6 50.7 76.1

Manual Integrations
APPROVED

MMDadoda

9/27/2018 3:18:44 PM

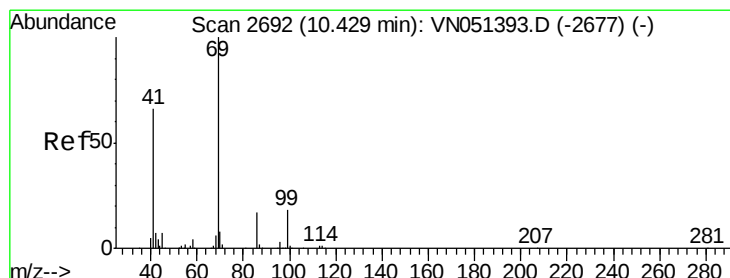
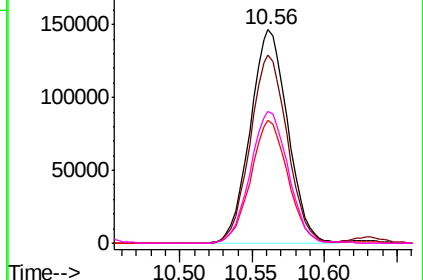
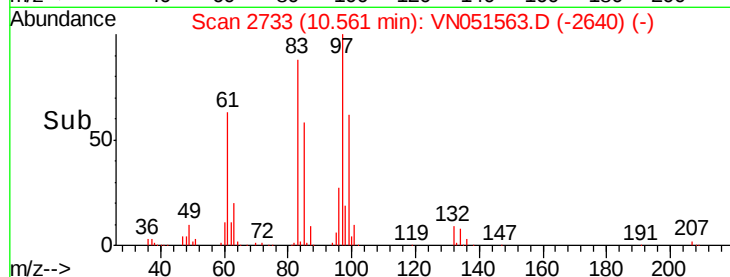


Abundance Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56

Ethyl methacrylate

Concen: 55.682 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

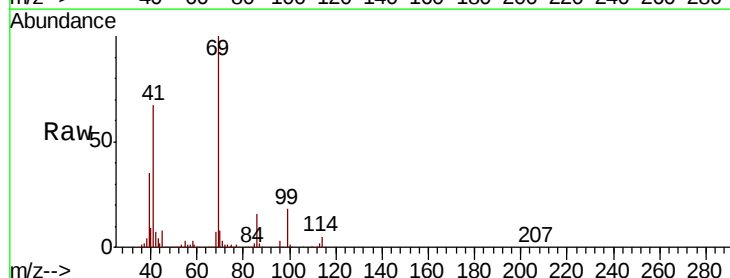
Tgt Ion: 69 Resp: 326485

Ion Ratio Lower Upper

69 100

41 65.8 52.4 78.6

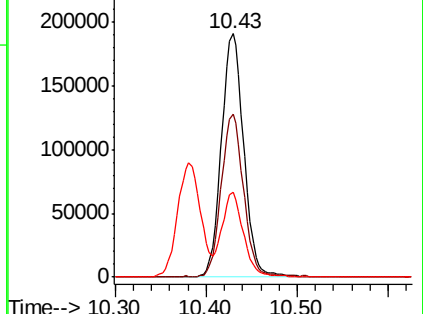
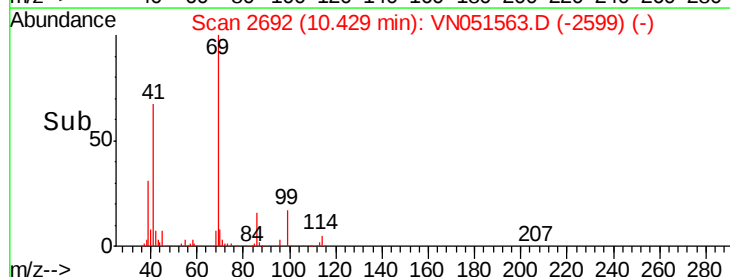
39 33.1 26.3 39.5

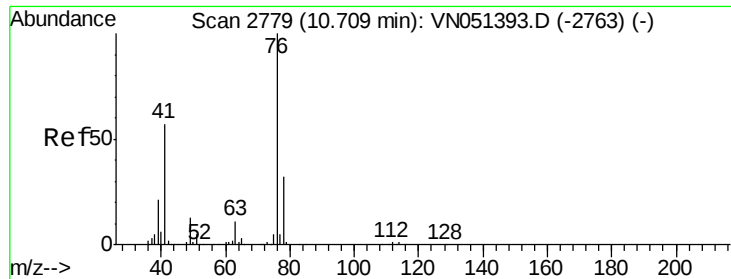


Abundance Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 54.508 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 448042

Ion Ratio Lower Upper

76 100

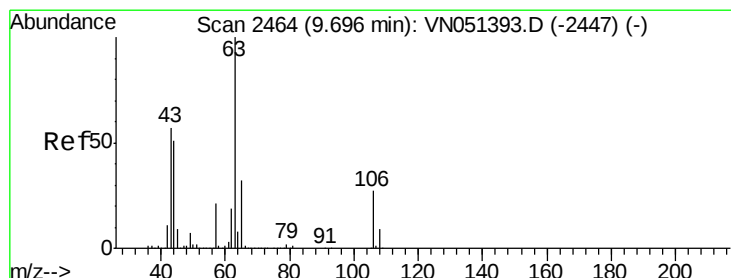
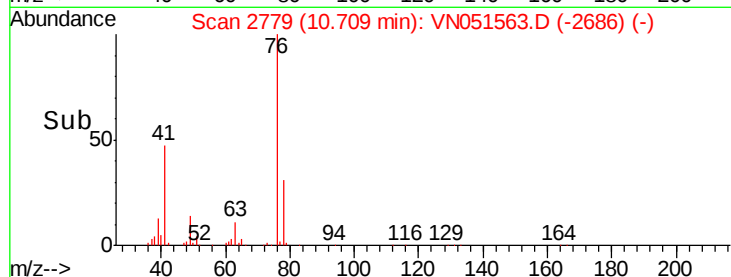
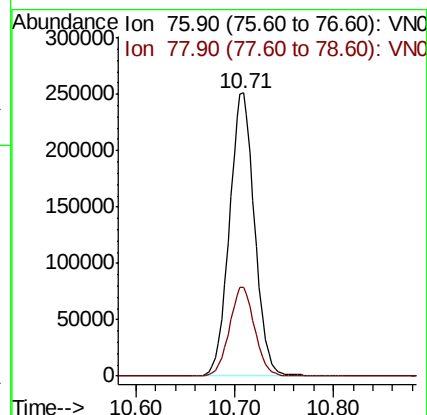
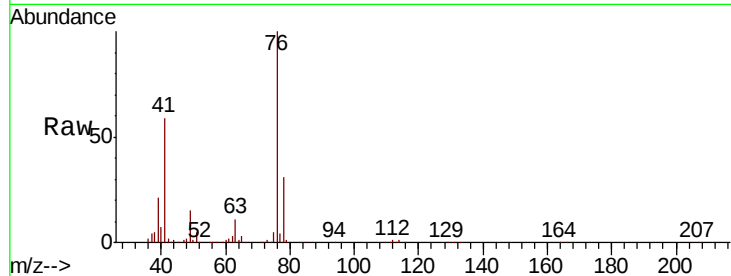
78 31.5 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



#58

2-Chloroethyl Vinyl ether

Concen: 261.008 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN051563.D

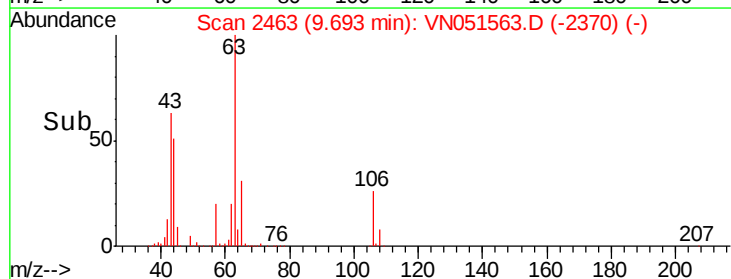
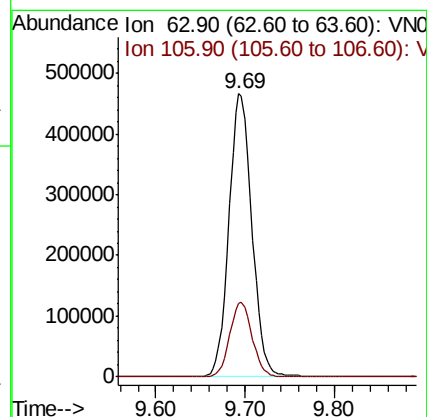
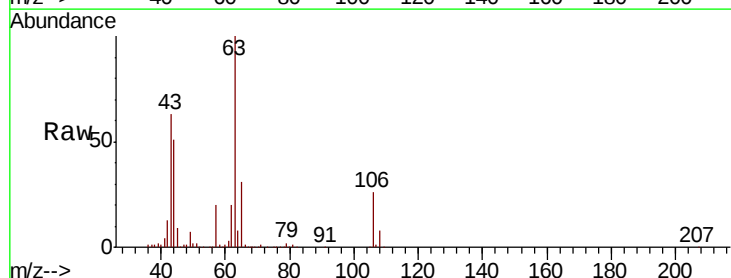
Acq: 27 Sep 2018 4:44

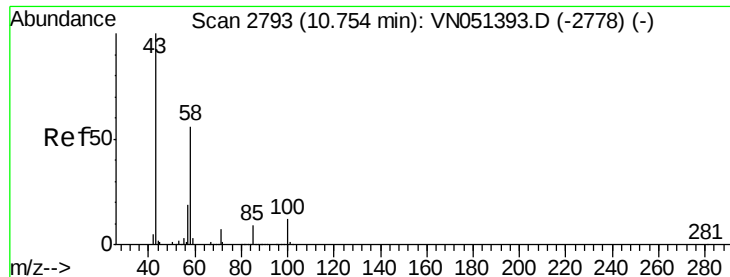
Tgt Ion: 63 Resp: 831305

Ion Ratio Lower Upper

63 100

106 25.8 21.4 32.2





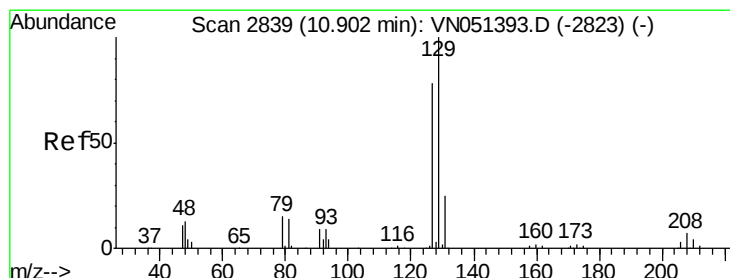
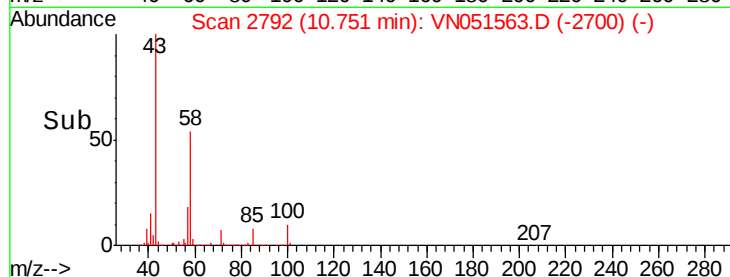
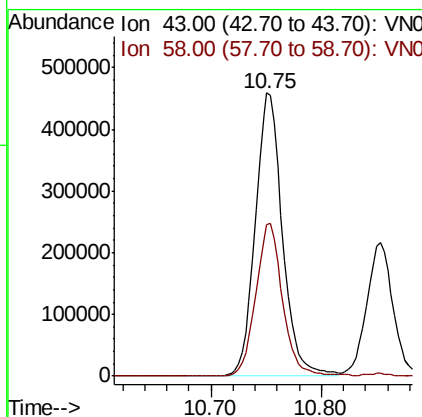
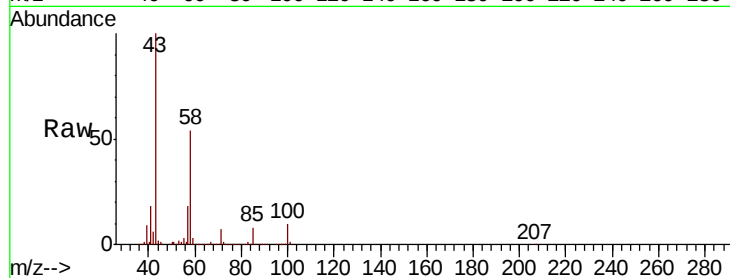
#59
2-Hexanone
Concen: 282.520 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 778752
Ion Ratio Lower Upper
43 100
58 53.6 27.7 83.0

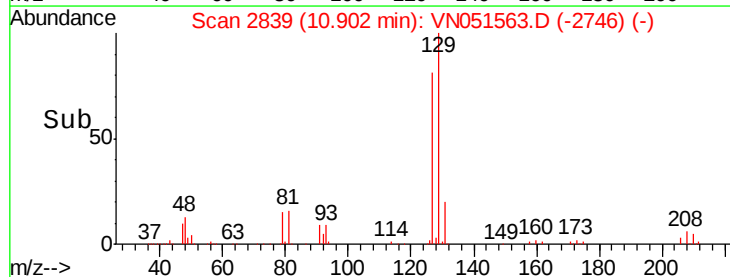
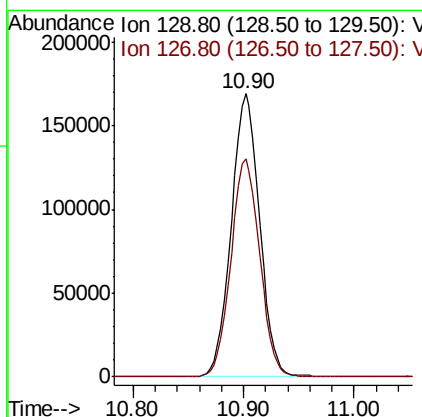
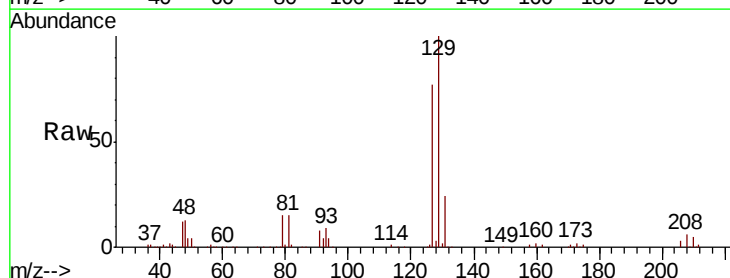
Manual Integrations
APPROVED

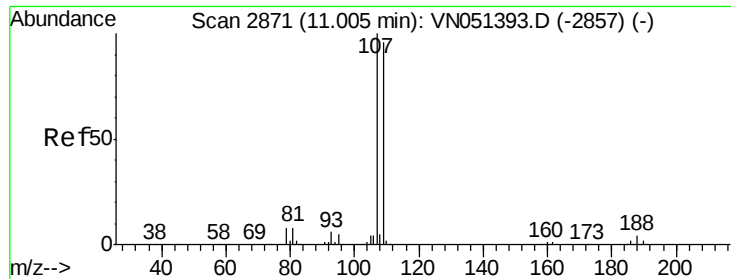
MMDadoda
9/27/2018 3:18:44 PM



#60
Dibromochloromethane
Concen: 53.241 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion: 129 Resp: 301254
Ion Ratio Lower Upper
129 100
127 78.4 38.6 116.0





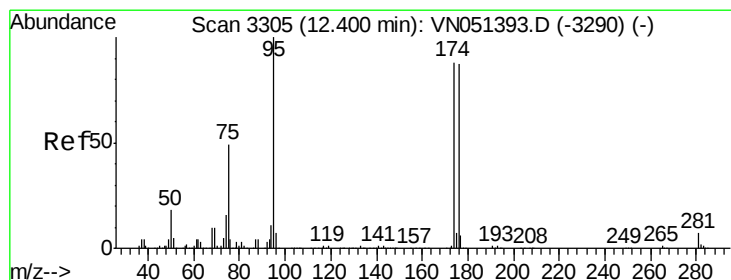
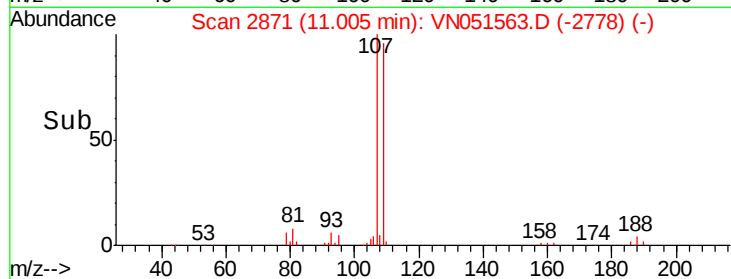
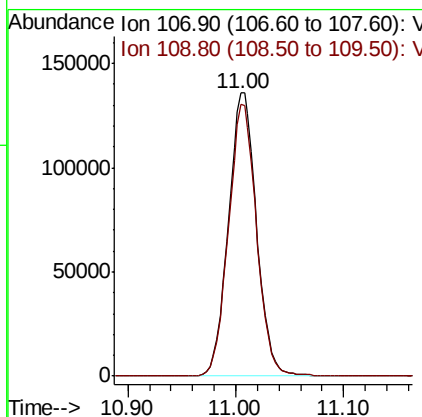
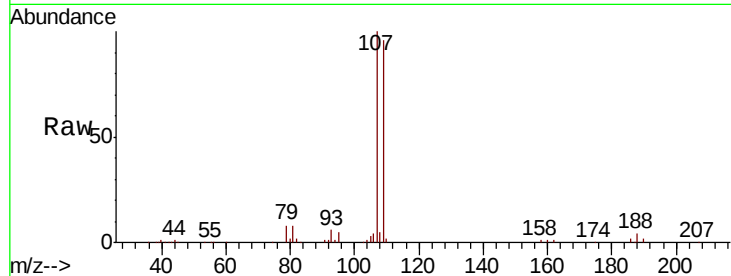
#61
 1,2-Dibromoethane
 Concen: 53.060 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.6	76.3	114.5

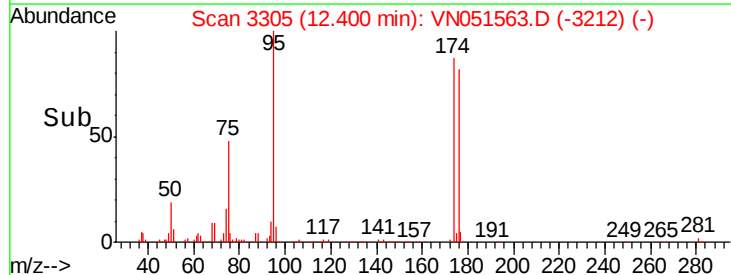
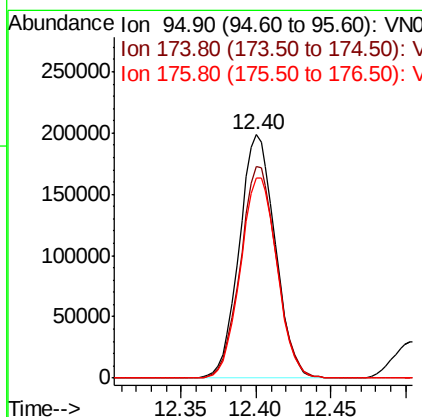
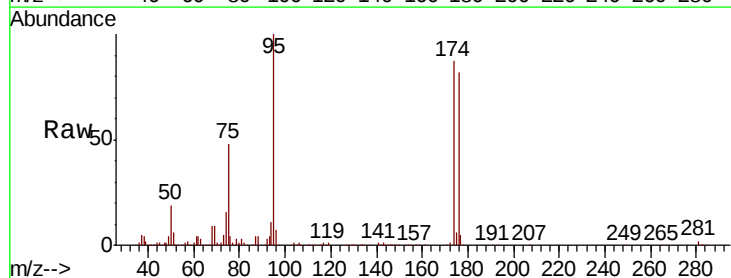
Manual Integrations
 APPROVED

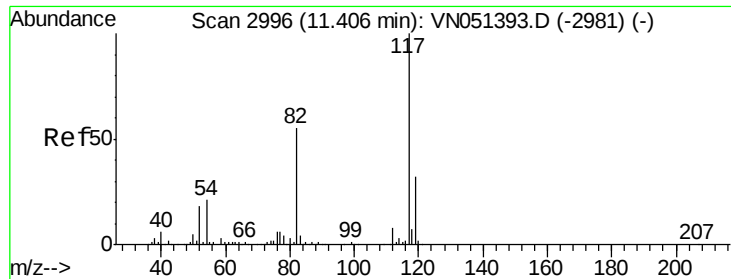
MMDadoda
 9/27/2018 3:18:44 PM



#62
 4-Bromofluorobenzene
 Concen: 53.089 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.9	0.0	181.6
176	83.8	0.0	176.4





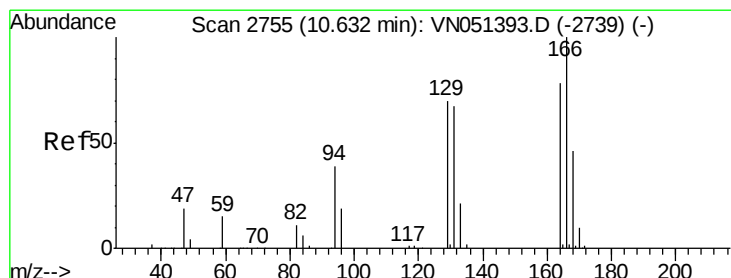
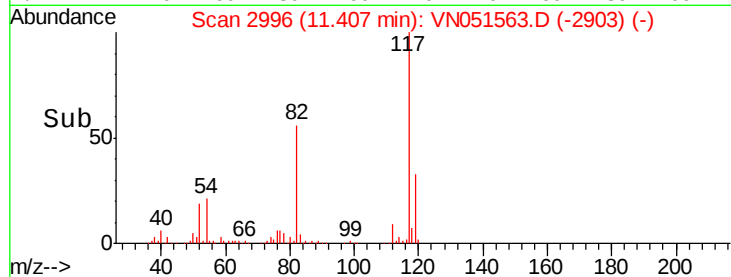
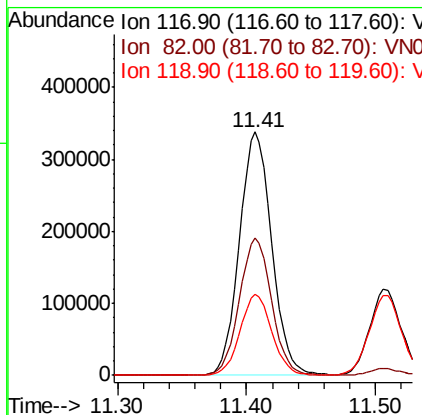
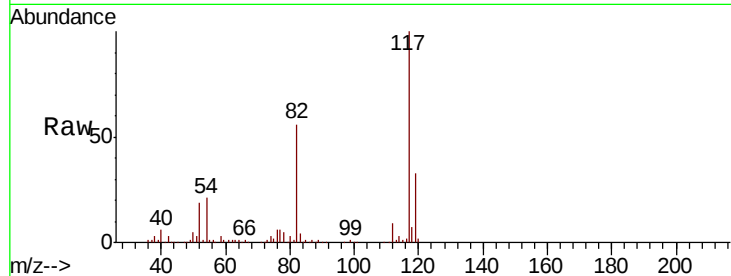
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	589477		
82	56.4		44.2	66.2
119	33.3		25.9	38.9

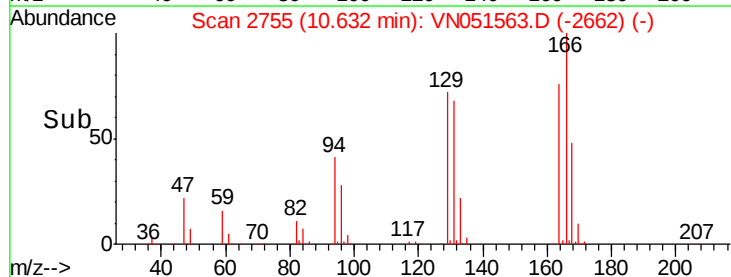
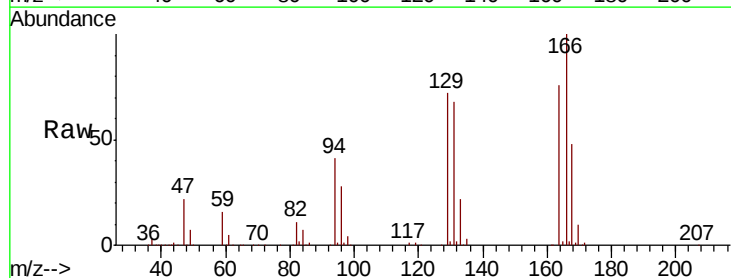
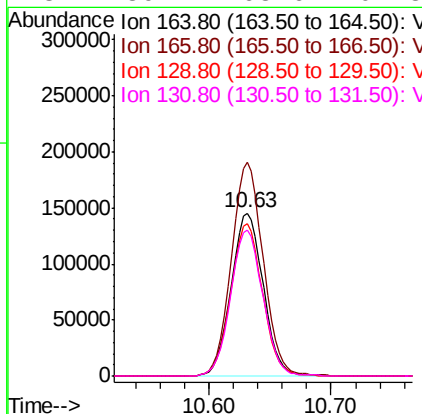
Manual Integrations
APPROVED

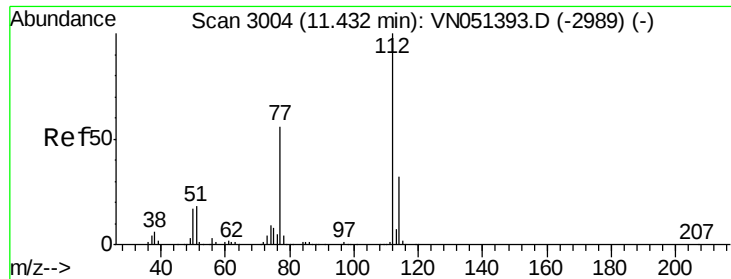
MMDadoda
9/27/2018 3:18:44 PM



#64
Tetrachloroethene
Concen: 49.595 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	265321		
166	130.9		102.3	153.5
129	93.7		71.8	107.8
131	89.4		68.6	102.8





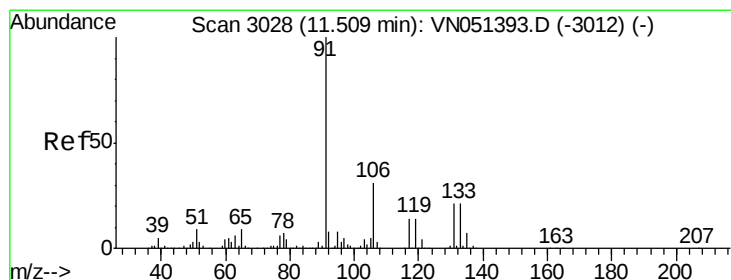
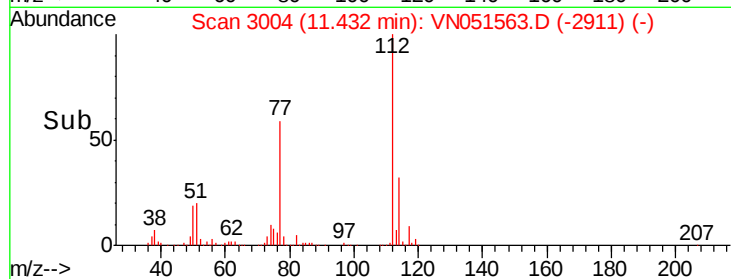
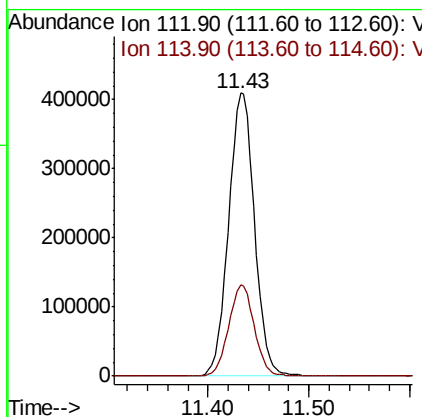
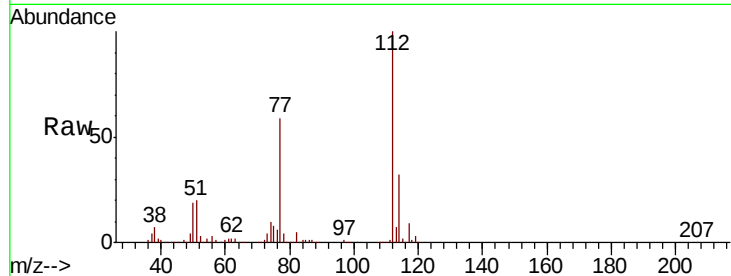
#65
Chlorobenzene
Concen: 48.472 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.4	38.2

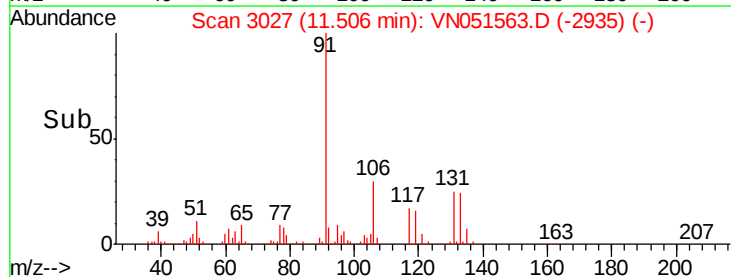
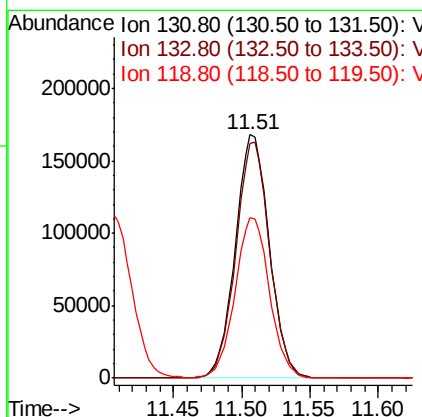
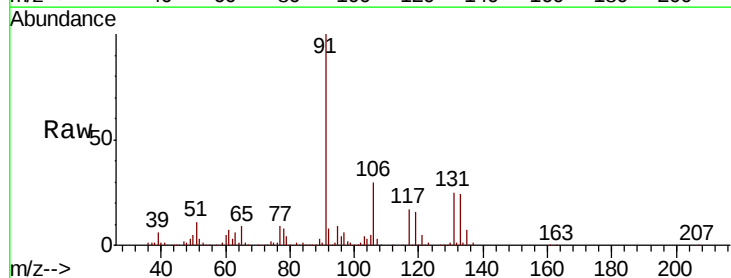
Manual Integrations
APPROVED

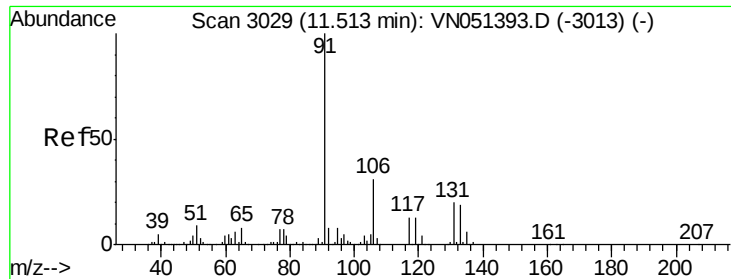
MMDadoda
9/27/2018 3:18:44 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.417 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.3	48.3	144.8
119	66.6	32.8	98.4





#67

Ethyl Benzene

Concen: 47.935 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 1221767

Ion Ratio Lower Upper

91 100

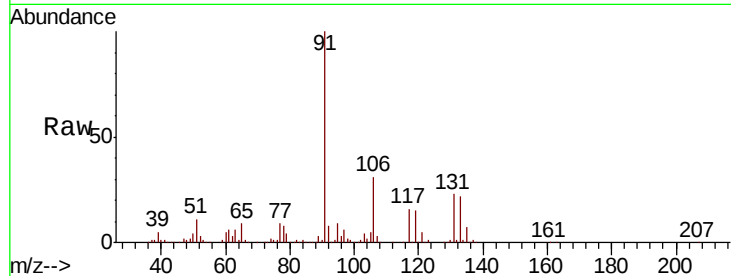
106 30.7 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



Abundance Ion 91.00 (90.70 to 91.70): VN051393.D (-3013) (-)

Ion 106.00 (105.70 to 106.70): VN051393.D (-3013) (-)

1000000

800000

600000

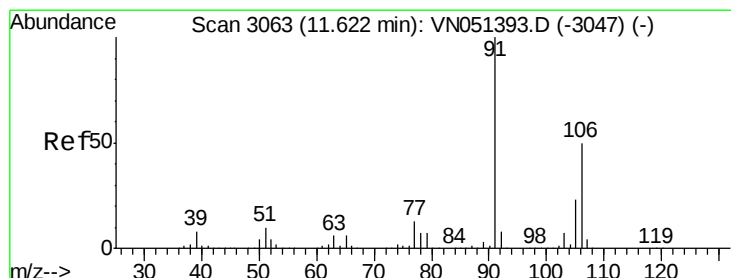
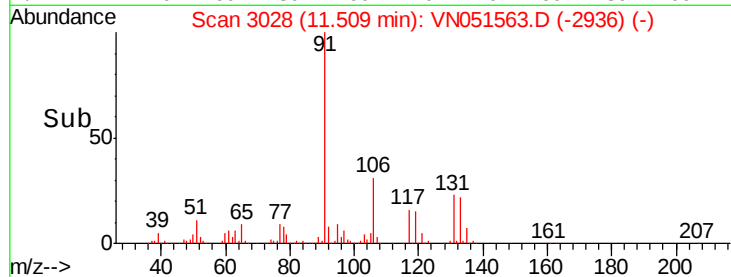
400000

200000

0

11.45 11.50 11.55 11.60

Time-->



#68

m/p-Xylenes

Concen: 97.164 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN051563.D

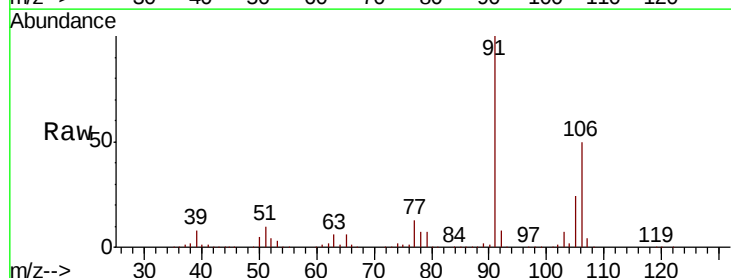
Acq: 27 Sep 2018 4:44

Tgt Ion: 106 Resp: 957935

Ion Ratio Lower Upper

106 100

91 201.6 161.3 241.9



Abundance Ion 106.00 (105.70 to 106.70): VN051393.D (-3047) (-)

Ion 91.00 (90.70 to 91.70): VN051393.D (-3047) (-)

1000000

800000

600000

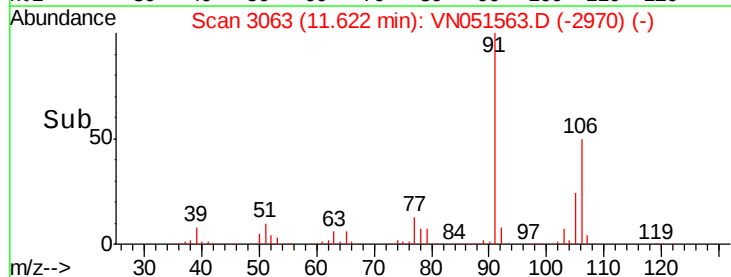
400000

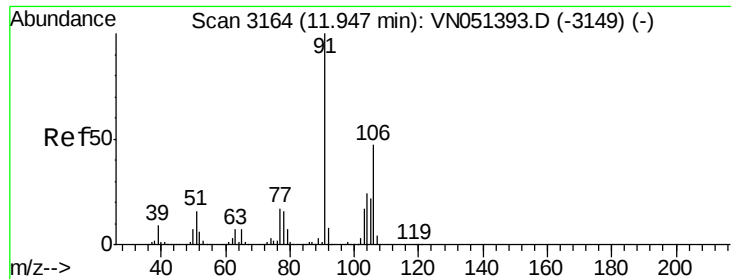
200000

0

11.50 11.60 11.70

Time-->





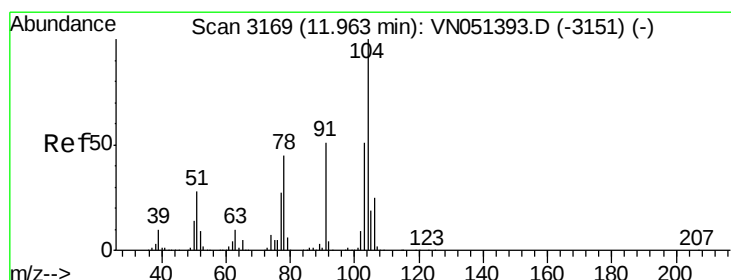
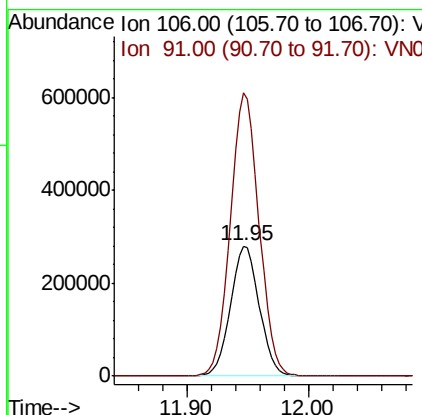
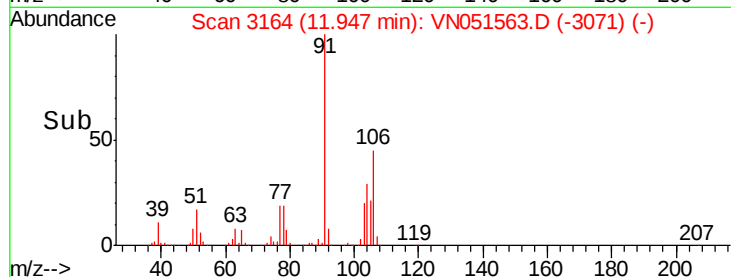
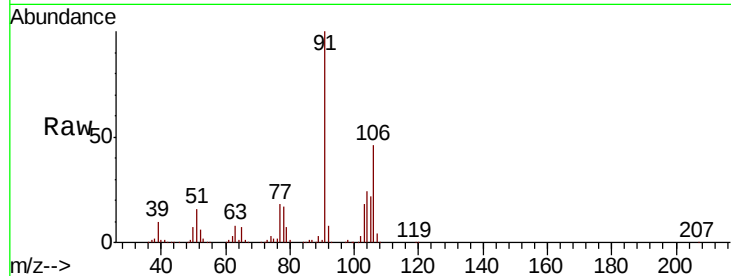
#69
o-Xylene
Concen: 48.596 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 460587
Ion Ratio Lower Upper
106 100
91 217.0 105.3 315.9

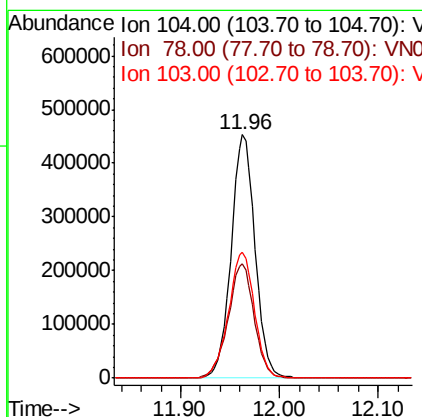
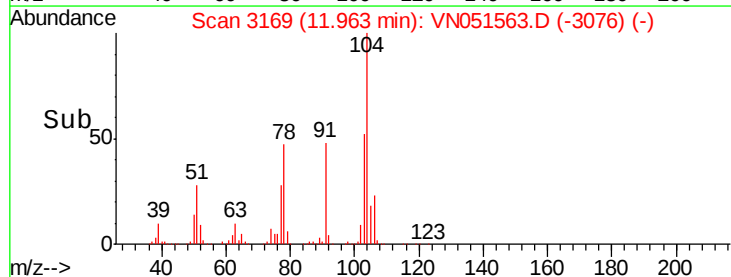
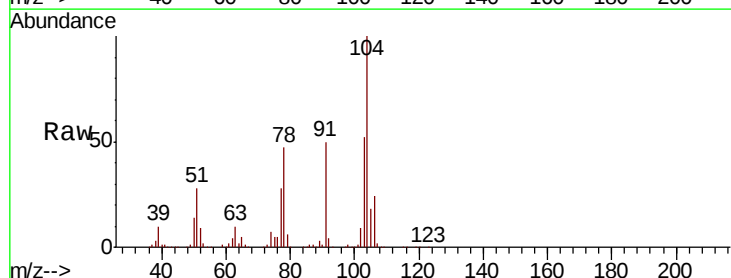
Manual Integrations
APPROVED

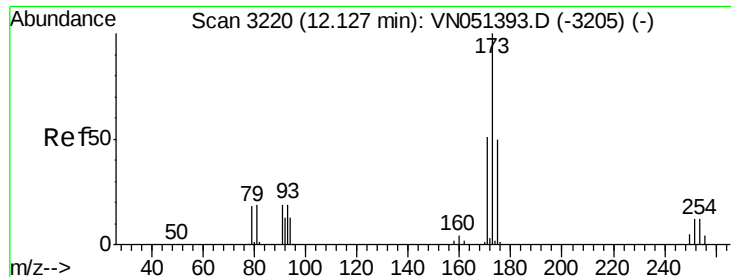
MMDadoda
9/27/2018 3:18:44 PM



#70
Styrene
Concen: 51.069 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion:104 Resp: 766977
Ion Ratio Lower Upper
104 100
78 51.0 39.9 59.9
103 56.1 44.6 66.8





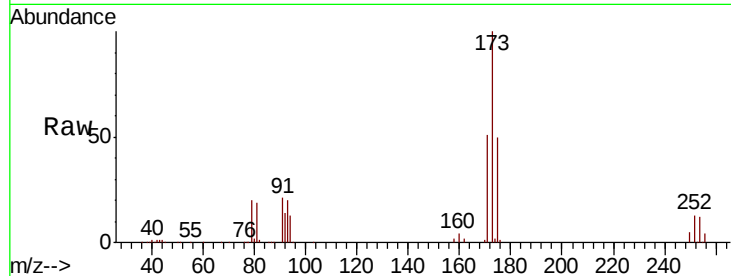
#71
Bromoform
Concen: 51.479 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.8	74.3
254	0.2	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM

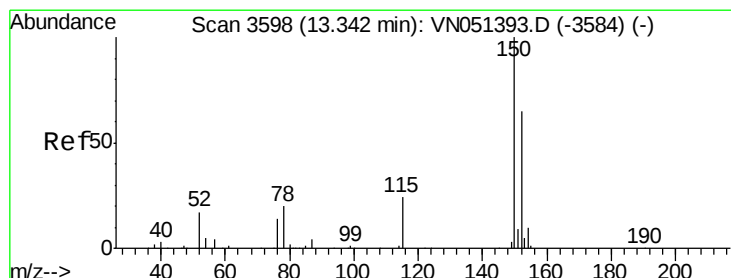
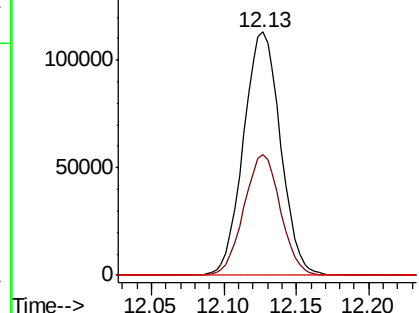
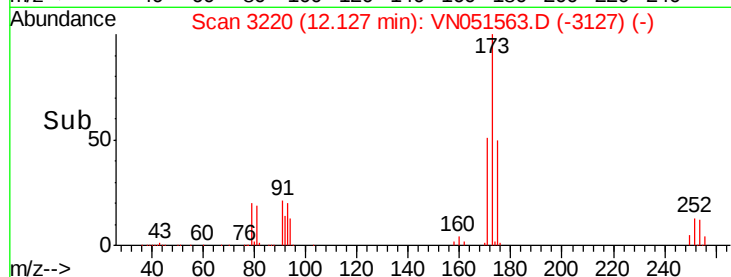


Abundance

Ion 172.70 (172.40 to 173.40): V

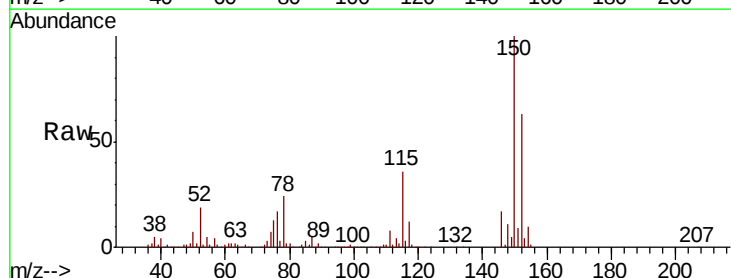
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.3	84.9
150	173.5	0.0	353.6

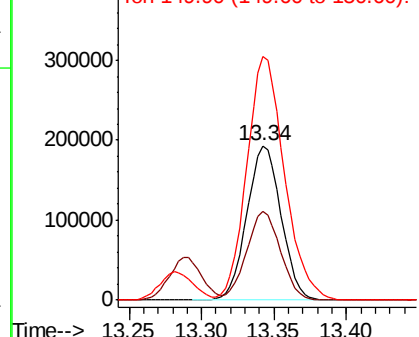
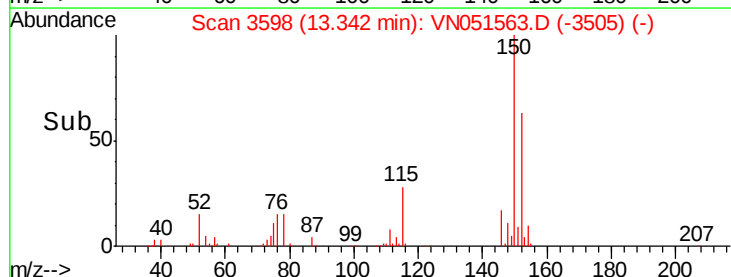


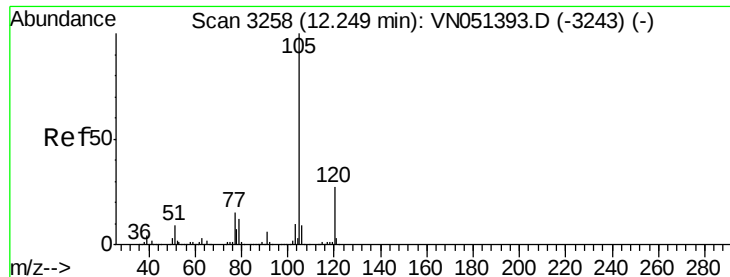
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 45.574 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1217726

Ion Ratio Lower Upper

105 100

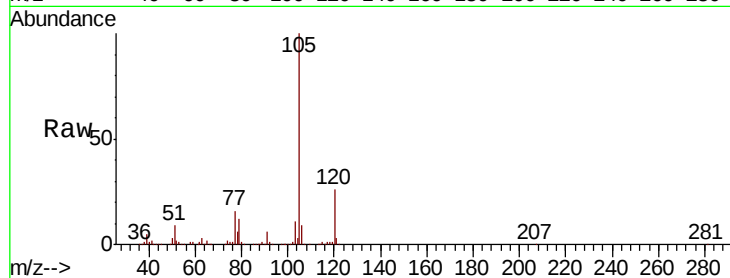
120 26.7 13.3 39.8

Manual Integrations

APPROVED

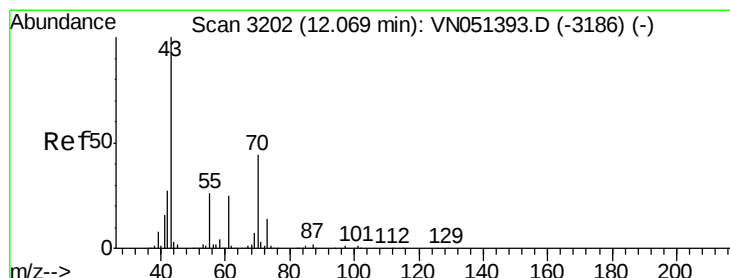
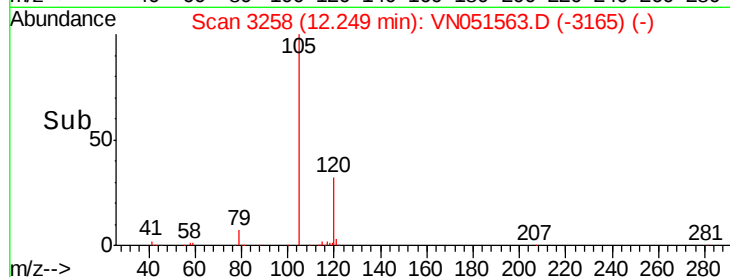
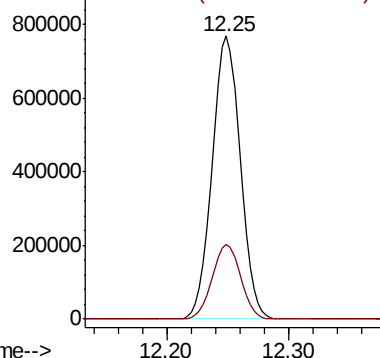
MMDadoda

9/27/2018 3:18:44 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 53.826 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Tgt Ion: 43 Resp: 360854

Ion Ratio Lower Upper

43 100

70 42.7 35.0 52.4

55 27.2 21.4 32.2

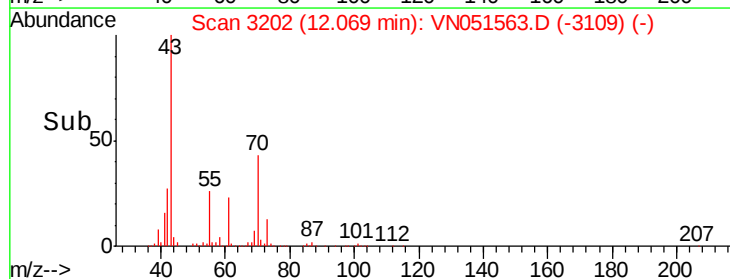
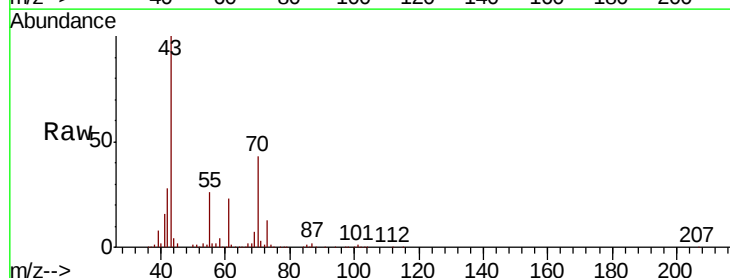
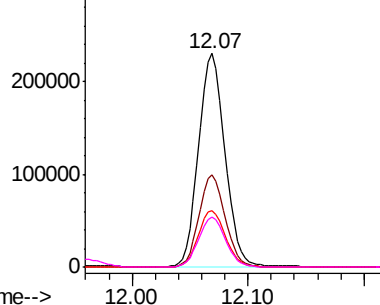
61 23.8 19.8 29.6

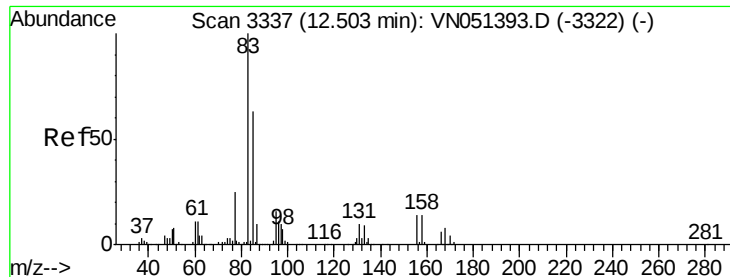
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 51.592 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

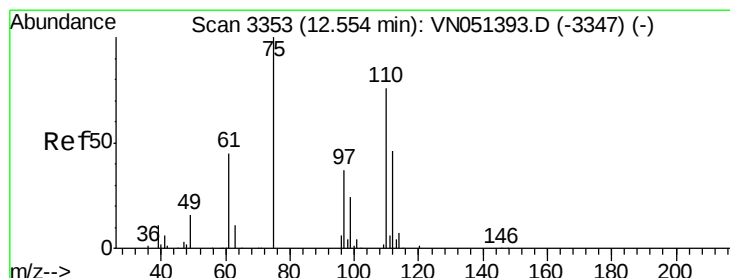
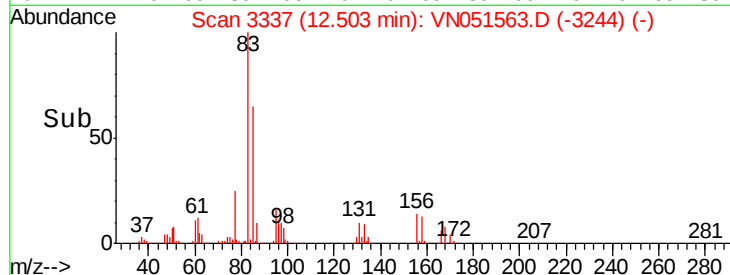
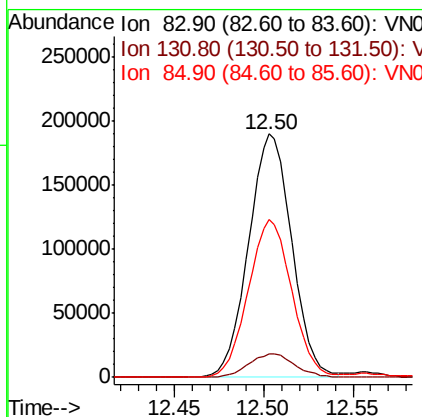
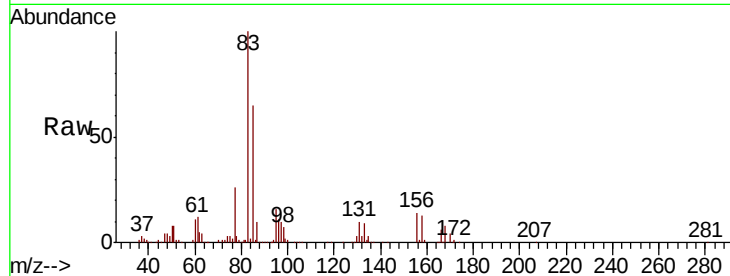
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	321459
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.3	15.9
85	65.1	31.6	95.0

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM



#76

1,2,3-Trichloropropane

Concen: 52.570 ug/l m

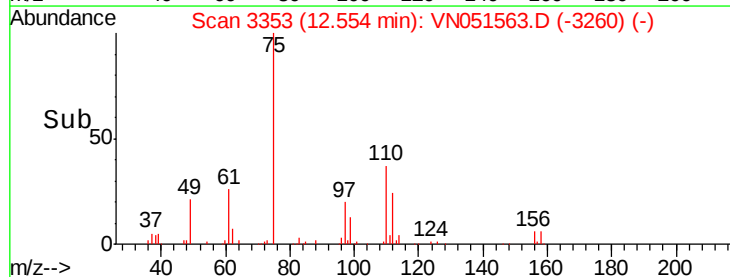
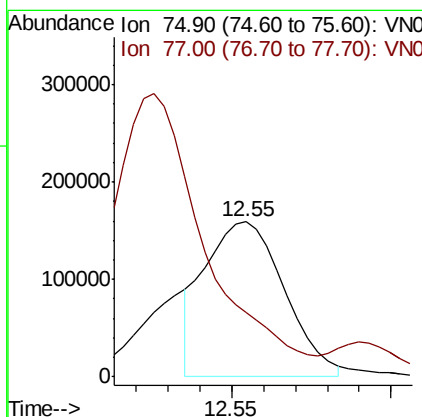
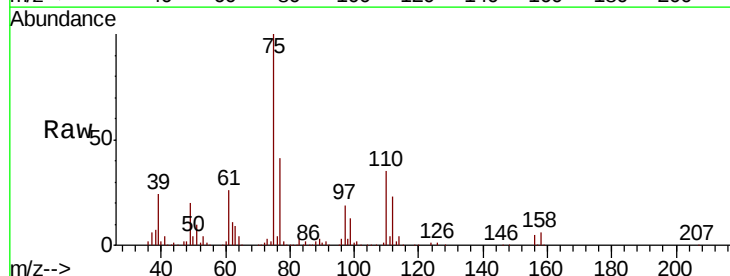
RT: 12.55 min Scan# 3353

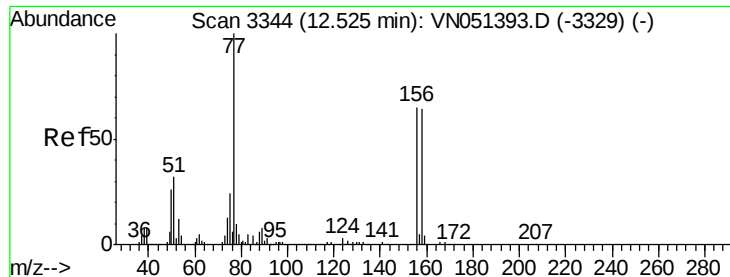
Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Tgt Ion:	75	Resp:	276372
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 46.674 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

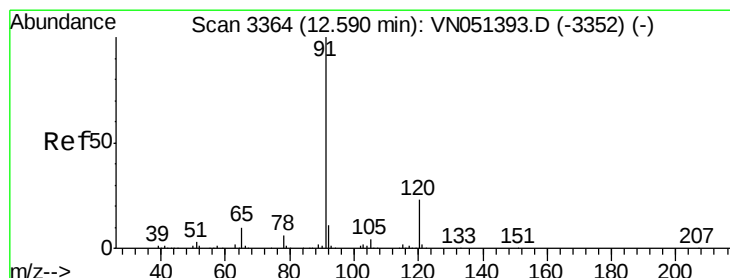
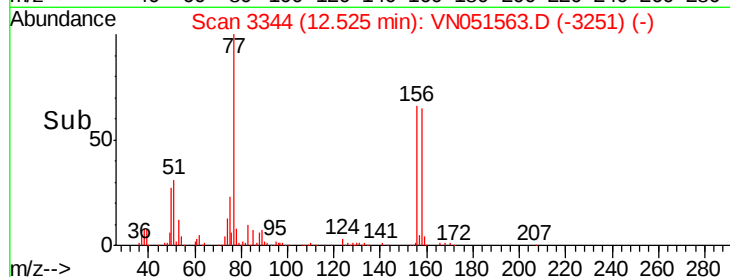
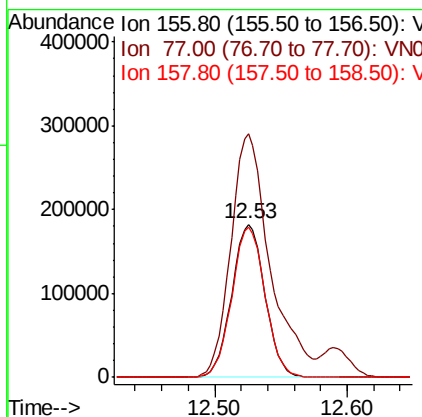
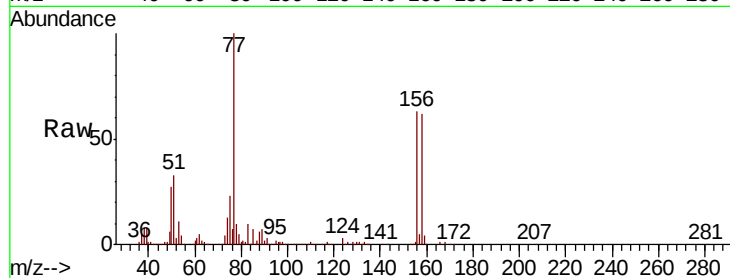
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	315709
Ion Ratio	Lower	Upper	
156	100		
77	190.6	89.5	268.4
158	98.8	49.4	148.2

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM



#78

n-propylbenzene

Concen: 46.803 ug/l

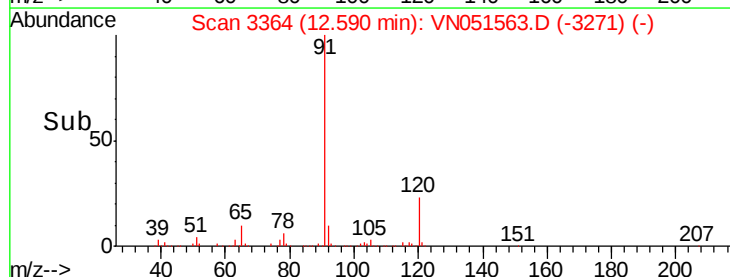
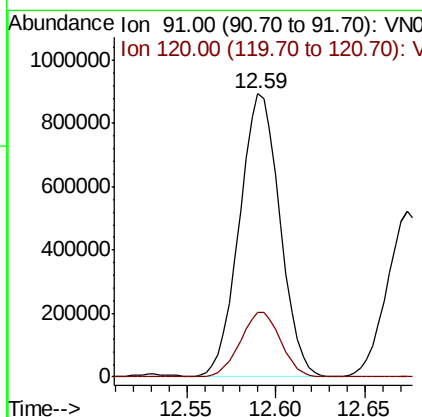
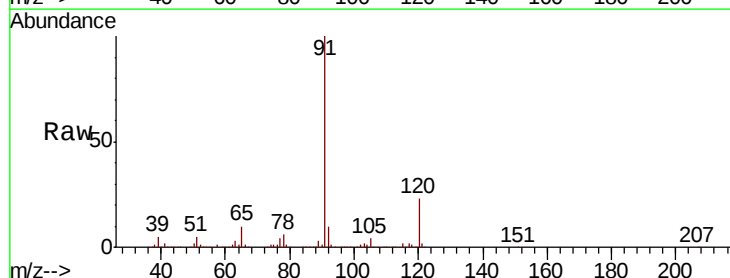
RT: 12.59 min Scan# 3364

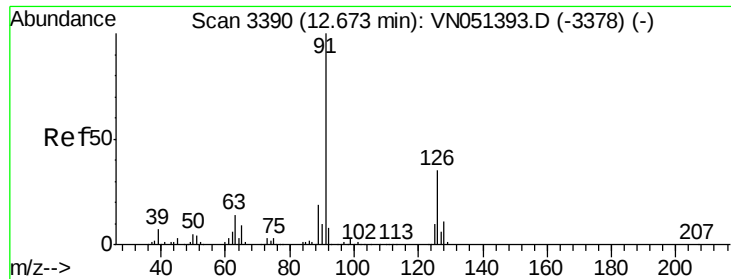
Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Tgt Ion:	91	Resp:	1409434
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.9	35.5





#79

2-Chlorotoluene

Concen: 47.470 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 855678

Ion Ratio Lower Upper

91 100

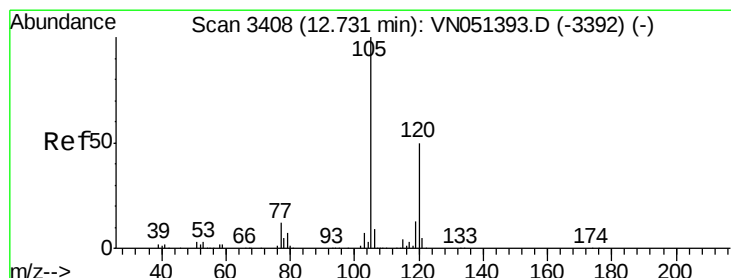
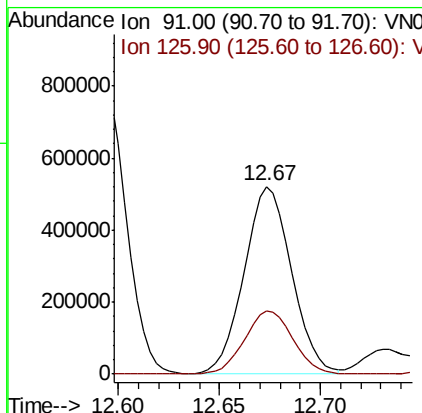
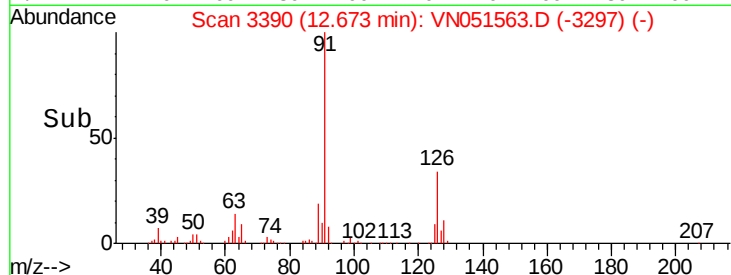
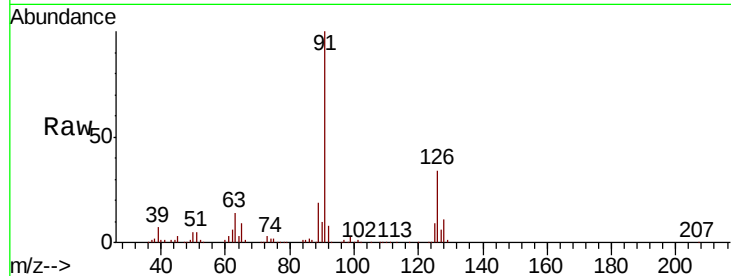
126 34.5 17.6 52.8

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



#80

1,3,5-Trimethylbenzene

Concen: 47.960 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051563.D

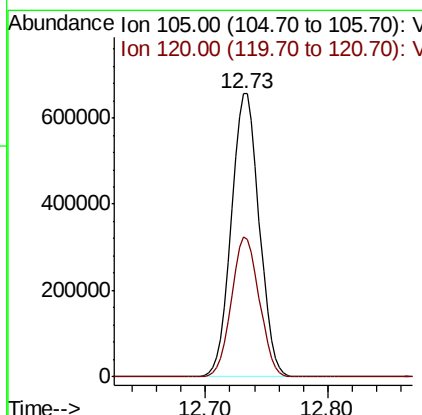
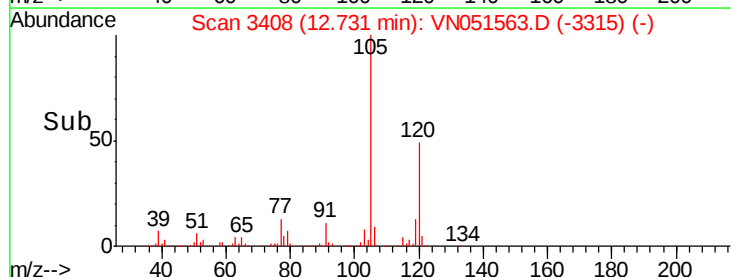
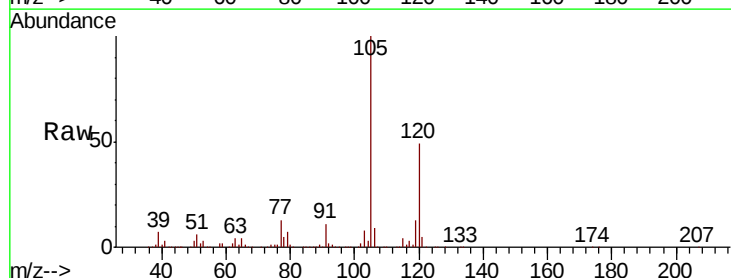
Acq: 27 Sep 2018 4:44

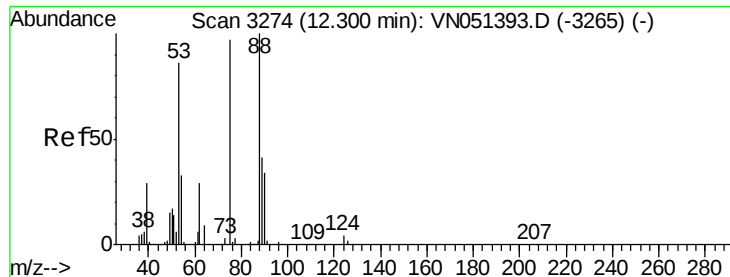
Tgt Ion: 105 Resp: 1044927

Ion Ratio Lower Upper

105 100

120 49.2 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 45.700 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051563.D

Acq: 27 Sep 2018 4:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 78132

Ion Ratio Lower Upper

75 100

53 93.0 73.9 110.9

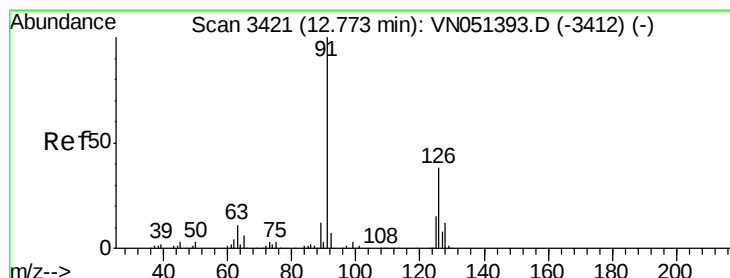
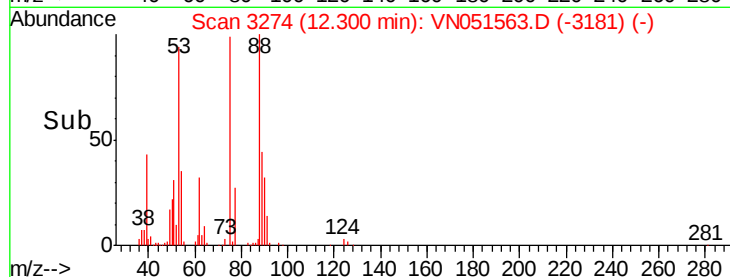
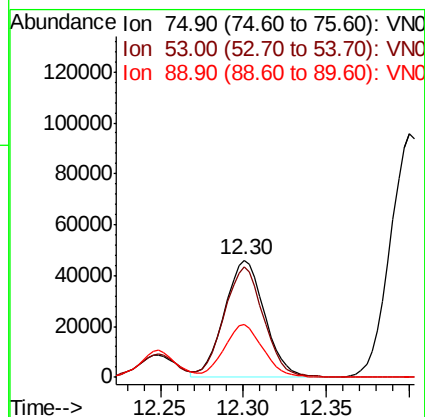
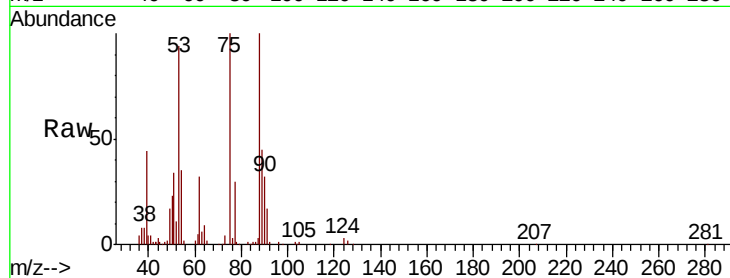
89 43.6 36.7 55.1

Manual Integrations

APPROVED

MMDadoda

9/27/2018 3:18:44 PM



#82

4-Chlorotoluene

Concen: 48.502 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051563.D

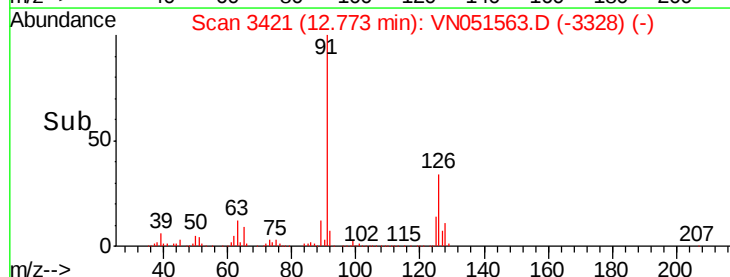
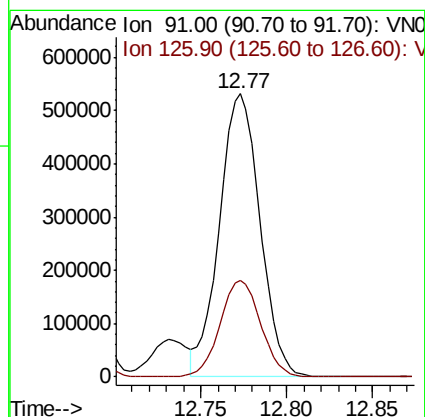
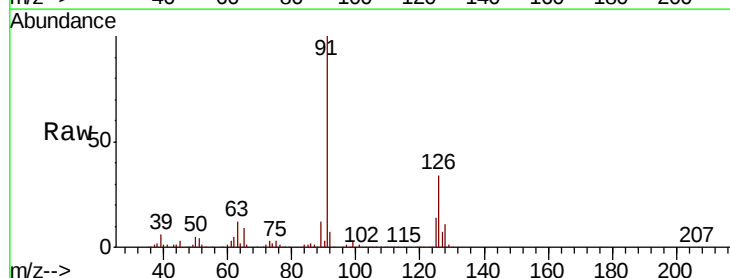
Acq: 27 Sep 2018 4:44

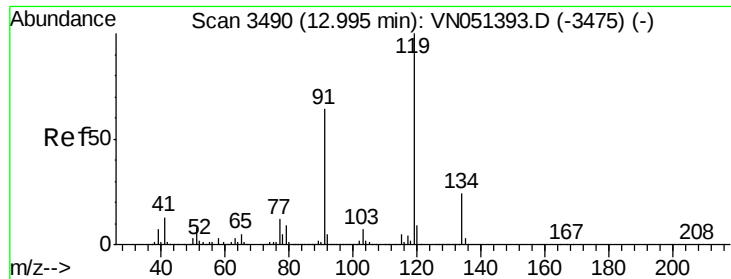
Tgt Ion: 91 Resp: 872609

Ion Ratio Lower Upper

91 100

126 34.1 17.5 52.5





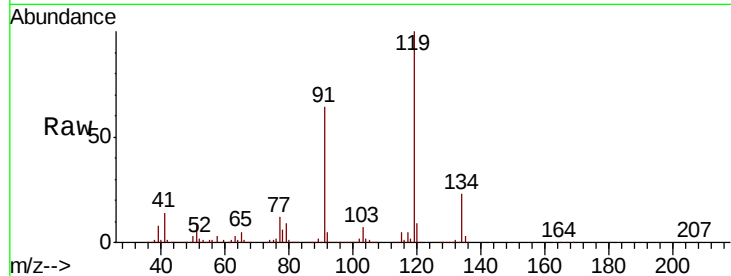
#83
 tert-Butylbenzene
 Concen: 45.859 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	889334		
91	64.7		31.7	95.1
134	25.8		12.3	36.9

Manual Integrations
 APPROVED

MMDadoda
 9/27/2018 3:18:44 PM

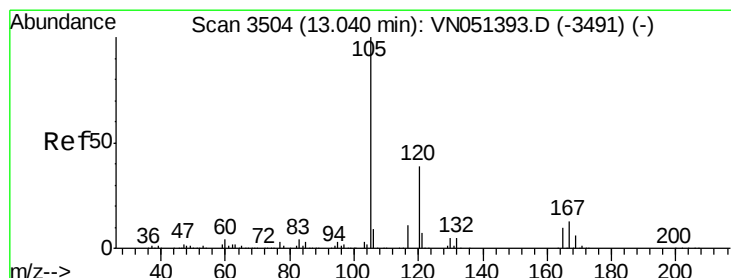
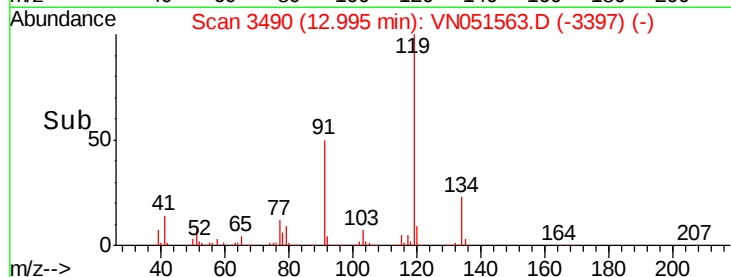
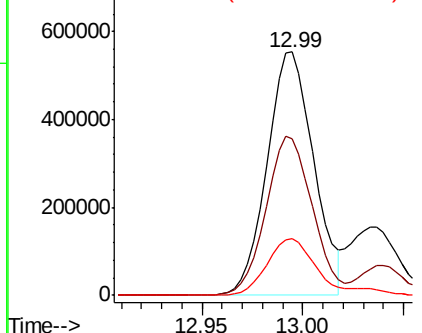


Abundance

Ion 119.00 (118.70 to 119.70): V

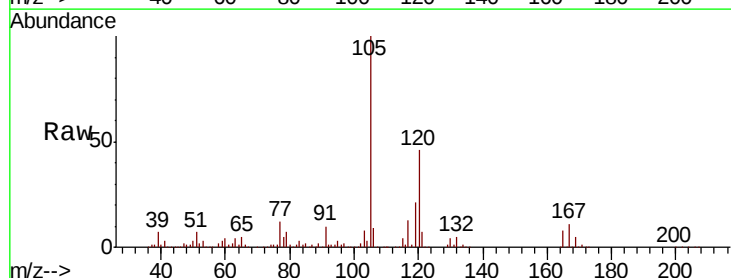
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84
 1,2,4-Trimethylbenzene
 Concen: 48.496 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

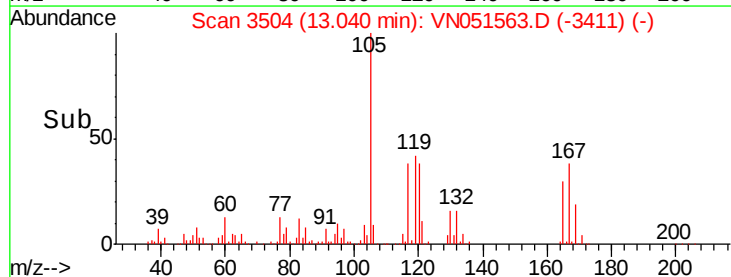
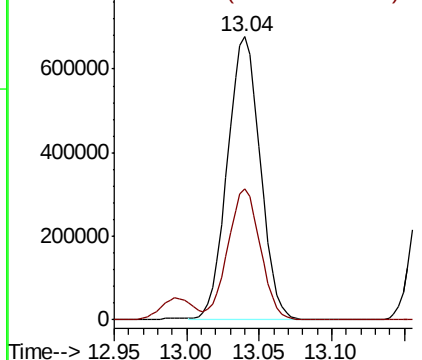
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	1064727		
120	45.9		22.9	68.7

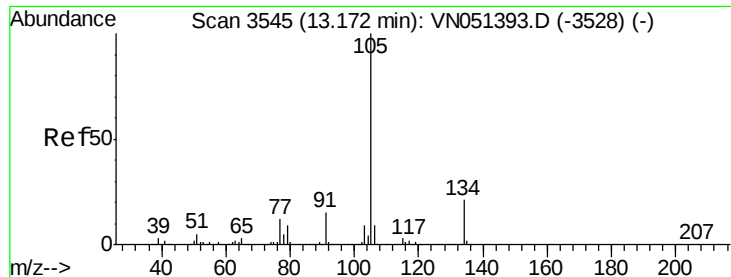


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





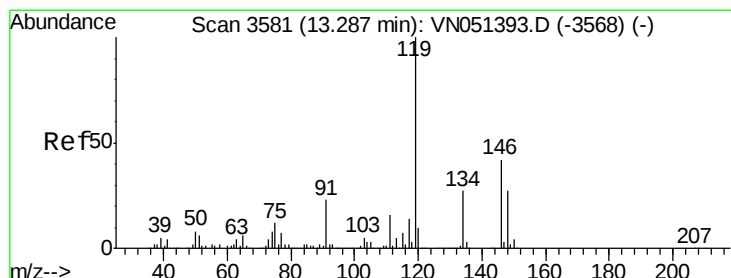
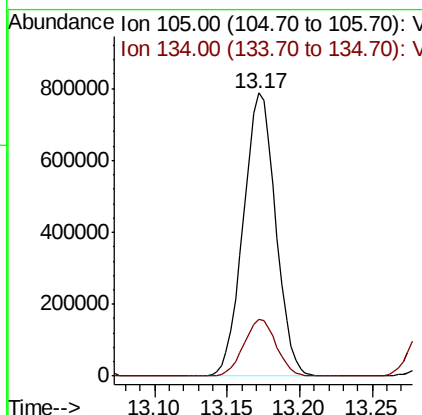
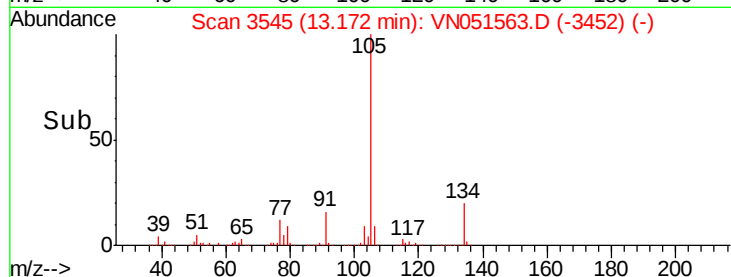
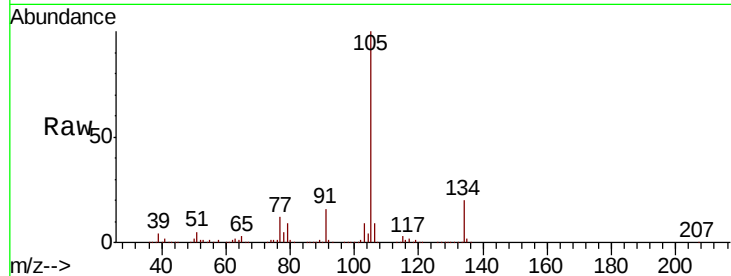
#85
 sec-Butylbenzene
 Concen: 46.558 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1221453
 Ion Ratio Lower Upper
 105 100
 134 20.1 10.4 31.1

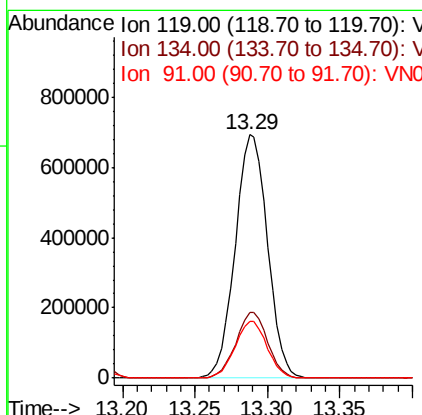
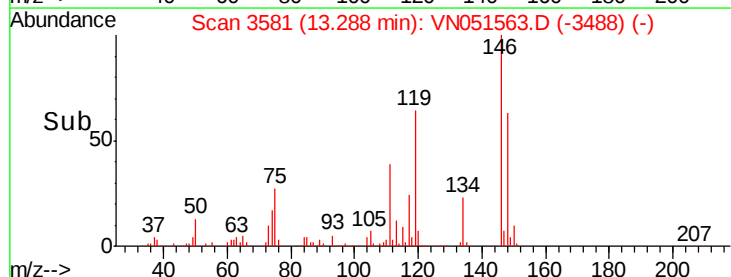
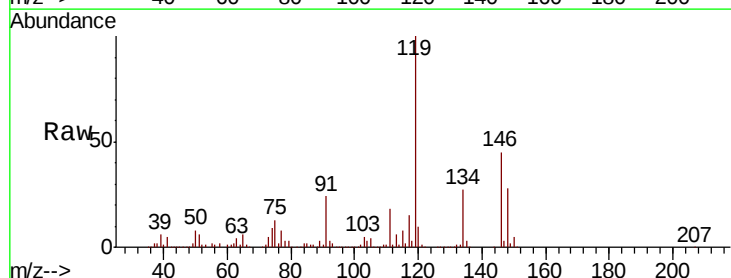
Manual Integrations
 APPROVED

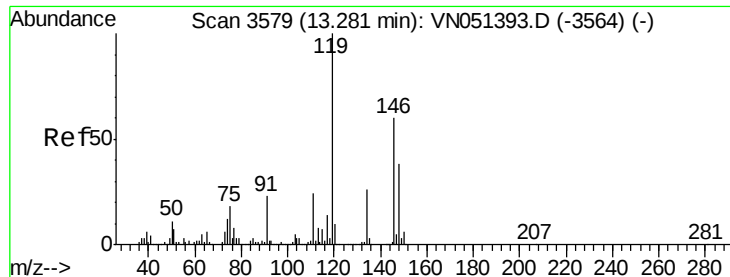
MMDadoda
 9/27/2018 3:18:44 PM



#86
 p-Isopropyltoluene
 Concen: 47.086 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion:119 Resp: 1068908
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.3 39.9
 91 23.2 11.4 34.2





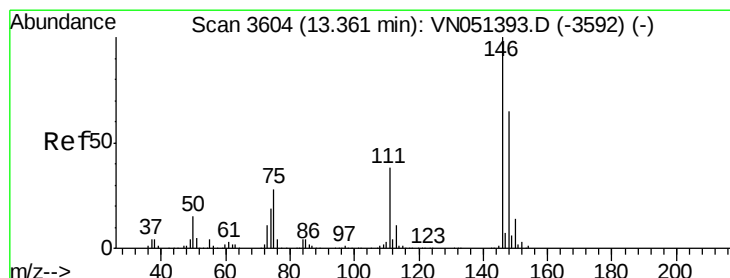
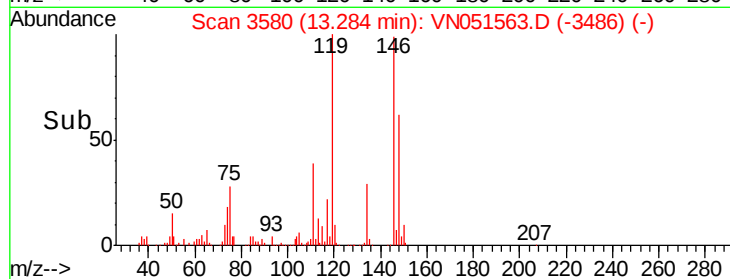
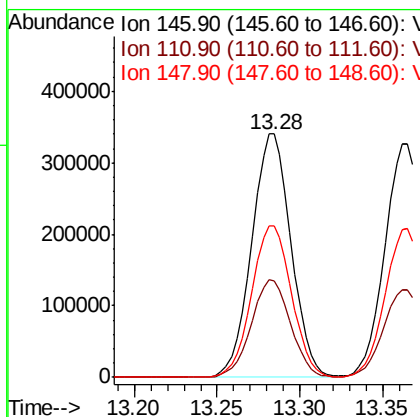
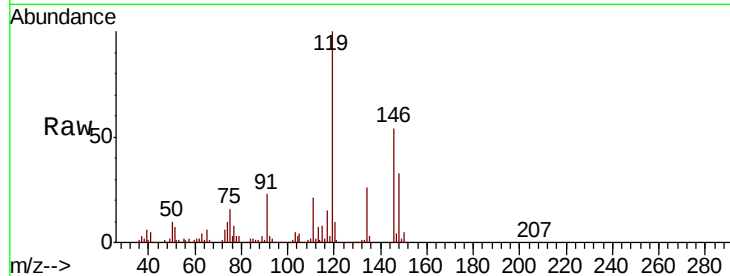
#87
 1,3-Dichlorobenzene
 Concen: 48.150 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	563618		
111	39.9	19.7	59.1	
148	62.9	31.9	95.7	

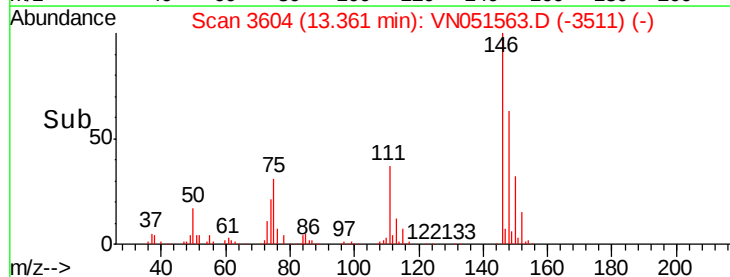
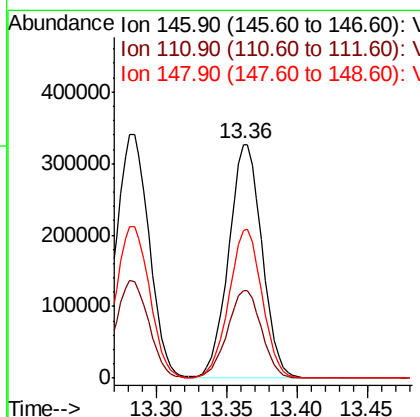
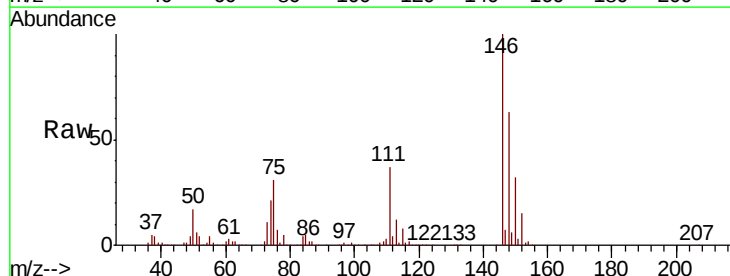
Manual Integrations
 APPROVED

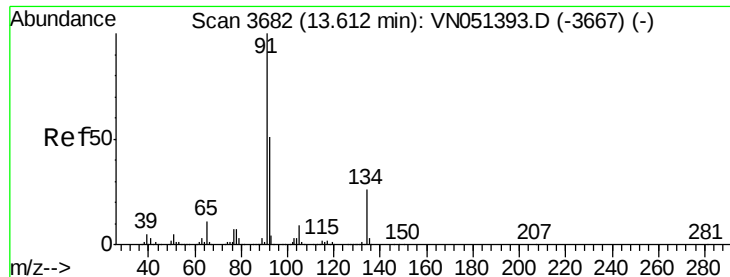
MMDadoda
 9/27/2018 3:18:44 PM



#88
 1,4-Dichlorobenzene
 Concen: 47.906 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	539551		
111	38.1	19.1	57.1	
148	63.5	32.5	97.5	





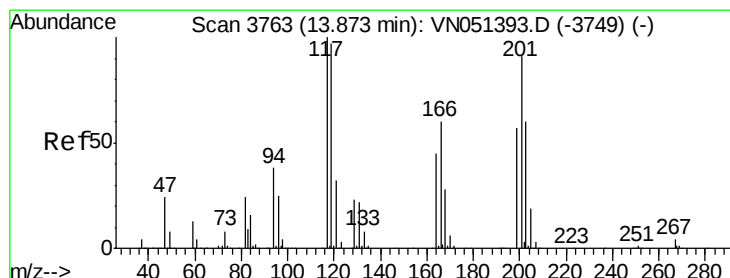
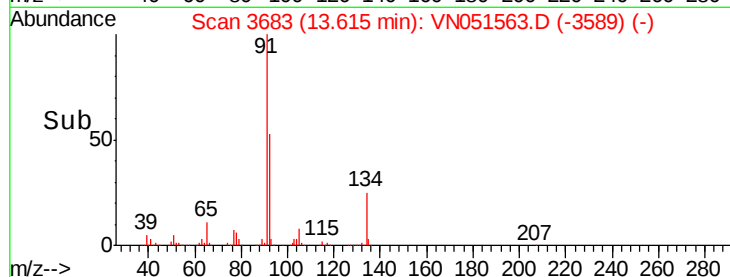
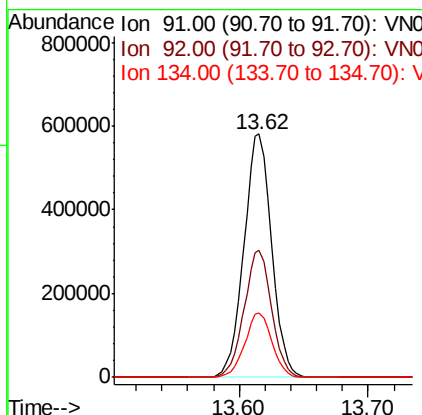
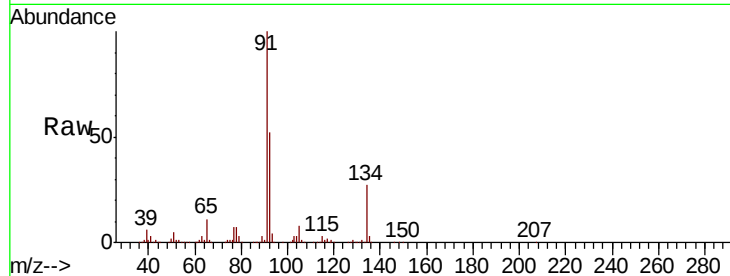
#89
n-Butylbenzene
Concen: 46.487 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	25.5	76.5
134	26.1	13.3	39.8

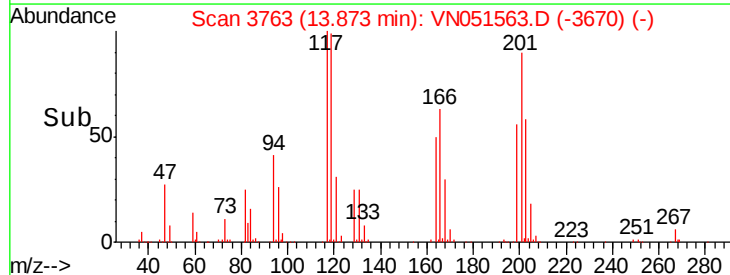
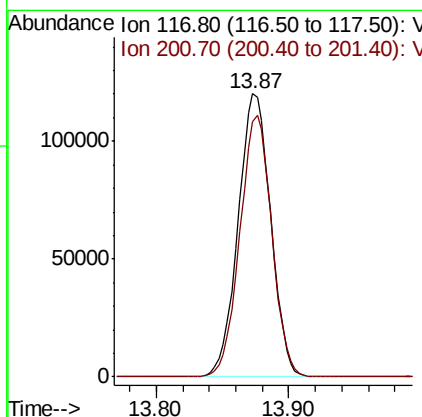
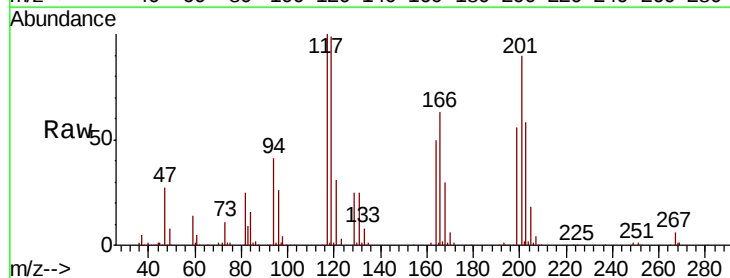
Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM



#90
Hexachloroethane
Concen: 45.340 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.2	45.5	136.4





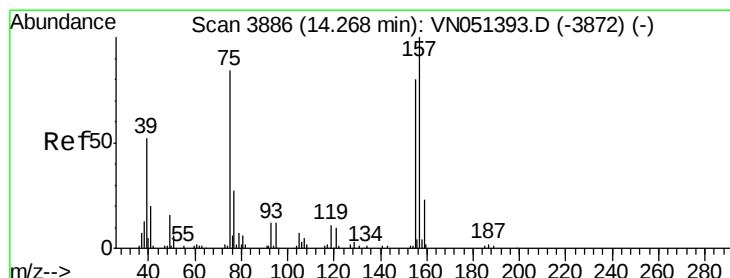
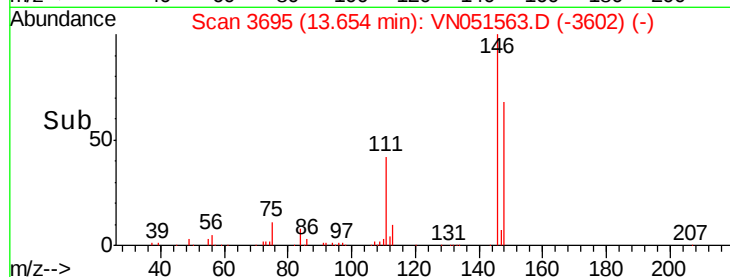
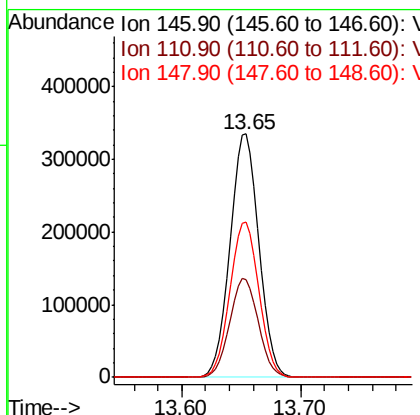
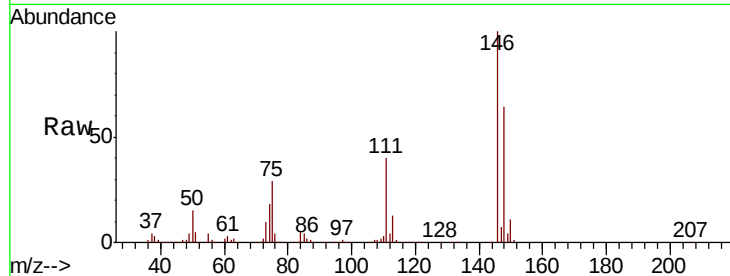
#91
 1,2-Dichlorobenzene
 Concen: 49.365 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.0	60.0
148	64.2	32.1	96.5

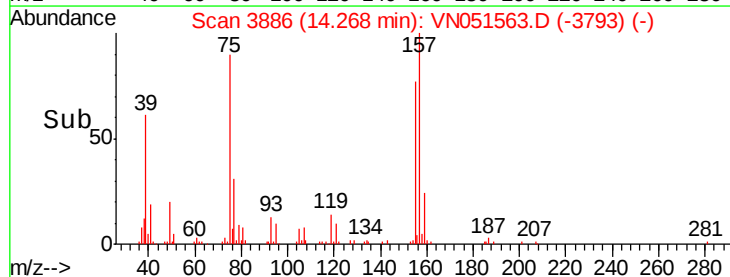
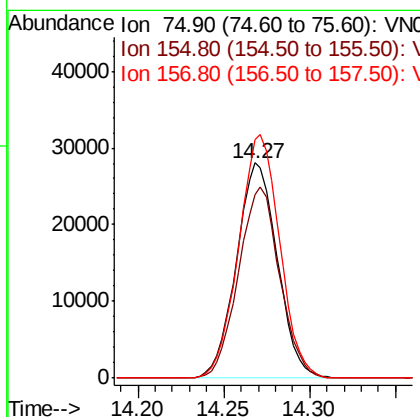
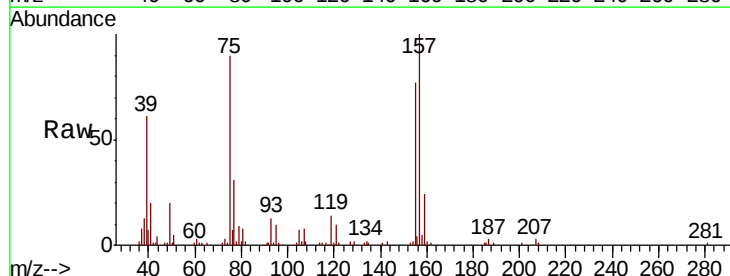
Manual Integrations
 APPROVED

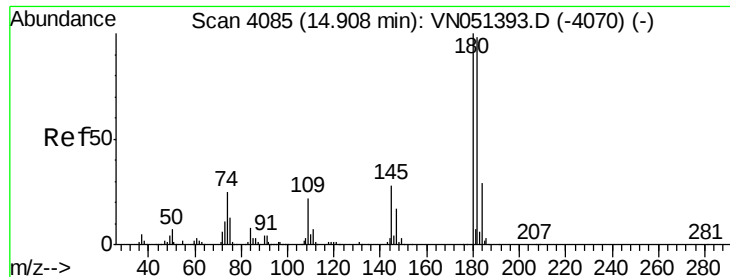
MMDadoda
 9/27/2018 3:18:44 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 52.149 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.9	46.9	140.6
157	113.0	58.4	175.1





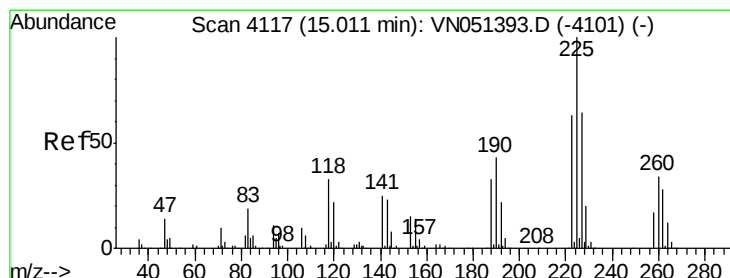
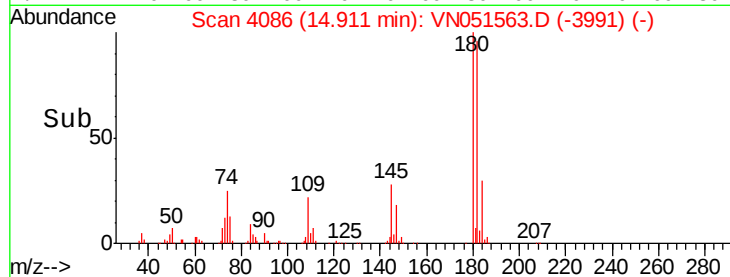
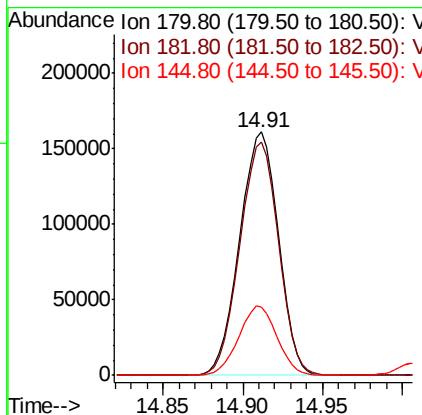
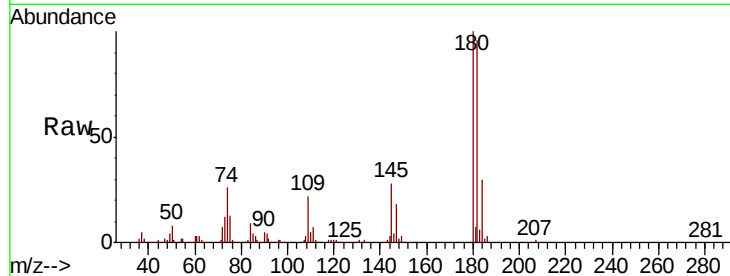
#93
 1,2,4-Trichlorobenzene
 Concen: 44.383 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	267083		
182	95.5	48.5	145.6	
145	28.1	14.1	42.4	

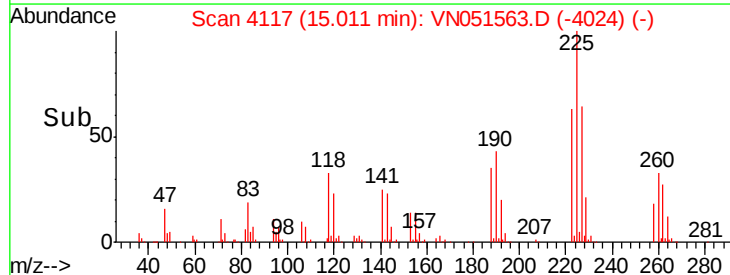
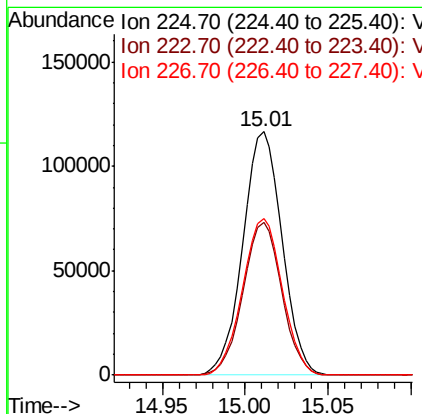
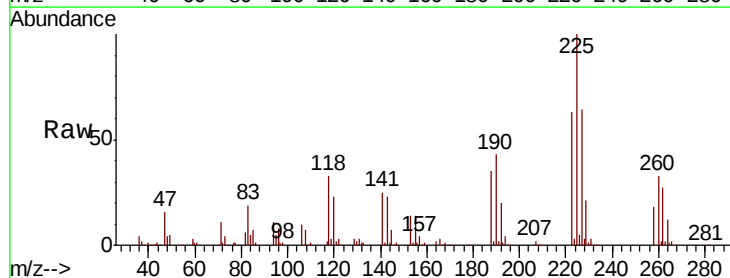
Manual Integrations
 APPROVED

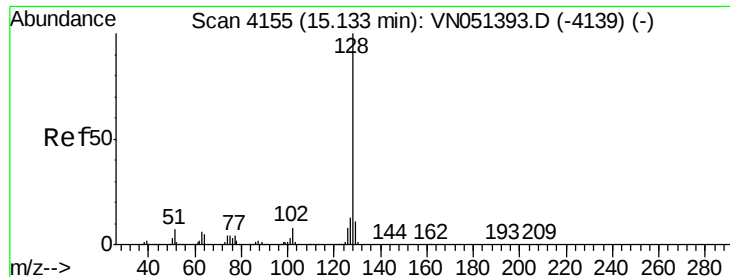
MMDadoda
 9/27/2018 3:18:44 PM



#94
 Hexachlorobutadiene
 Concen: 44.793 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051563.D
 Acq: 27 Sep 2018 4:44

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	192482		
223	61.9	31.9	95.9	
227	65.1	32.5	97.5	





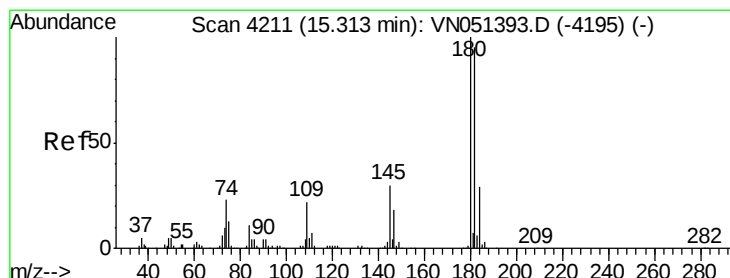
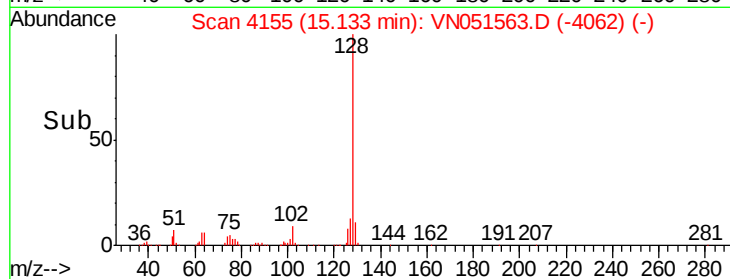
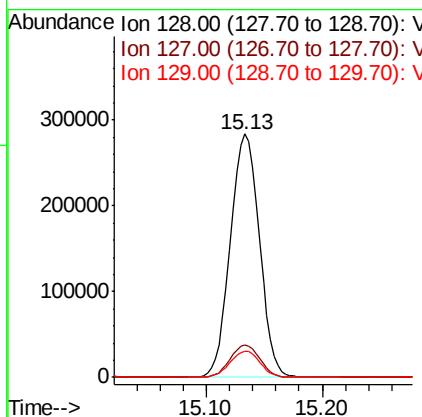
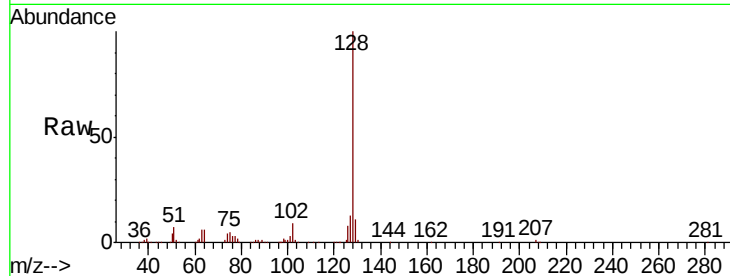
#95
Naphthalene
Concen: 43.097 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:	128	Resp:	491865
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.5	15.7
129	11.2	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/27/2018 3:18:44 PM



#96
1,2,3-Trichlorobenzene
Concen: 49.000 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051563.D
Acq: 27 Sep 2018 4:44

Tgt Ion:	180	Resp:	267069
Ion Ratio	Lower	Upper	
180	100		
182	95.8	47.2	141.6
145	30.6	14.6	43.8

