

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
 Data File : VN051810.D
 Acq On : 11 Oct 2018 11:57
 Operator : MD\SY
 Sample : VSTDICCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 3:00:17 PM

Quant Time: Oct 11 12:36:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 12:23:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	908522	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1319681	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1233623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	631823	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	424162	38.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.56%	
35) Dibromofluoromethane	7.59	113	407235	38.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.58%	
50) Toluene-d8	10.09	98	1519658	38.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.44%	
62) 4-Bromofluorobenzene	12.40	95	537673	41.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.44%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.85	85	231876	19.07	ug/l	99
3) Chloromethane	2.06	50	279661	18.65	ug/l	100
4) Vinyl Chloride	2.18	62	435040	30.62	ug/l	99
5) Bromomethane	2.56	94	385535	42.16	ug/l	99
6) Chloroethane	2.70	64	320777	39.08	ug/l	98
7) Trichlorofluoromethane	3.00	101	648192	35.63	ug/l	99
8) Diethyl Ether	3.41	74	175715	28.41	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.75	101	341572	30.06	ug/l	97
10) Methyl Iodide	3.95	142	469291	52.02	ug/l	96
11) Tert butyl alcohol	4.80	59	149825	215.12	ug/l	100
12) 1,1-Dichloroethene	3.73	96	309112	30.29	ug/l	93
13) Acrolein	3.61	56	156190	410.56	ug/l	96
14) Allyl chloride	4.32	41	397428	25.00	ug/l #	79
15) Acrylonitrile	4.99	53	516846	146.02	ug/l	99
16) Acetone	3.82	43	429442	145.29	ug/l	97
17) Carbon Disulfide	4.05	76	842730	24.64	ug/l	100
18) Methyl Acetate	4.33	43	237561	23.00	ug/l	91
19) Methyl tert-butyl Ether	5.05	73	991153	38.62	ug/l	93
20) Methylene Chloride	4.55	84	356709	28.94	ug/l	88
21) trans-1,2-Dichloroethene	5.04	96	362566	32.85	ug/l	89
22) Diisopropyl ether	5.96	45	869087	27.43	ug/l #	90
23) Vinyl Acetate	5.90	43	3280417	160.75	ug/l #	93
24) 1,1-Dichloroethane	5.85	63	596999	29.35	ug/l	97
25) 2-Butanone	6.84	43	640414	145.30	ug/l #	88
26) 2,2-Dichloropropane	6.82	77	610166	37.33	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	431515	36.27	ug/l	90
28) Bromochloromethane	7.20	49	237614	27.49	ug/l #	67
29) Tetrahydrofuran	7.22	42	381105	150.81	ug/l #	80
30) Chloroform	7.37	83	706612	35.08	ug/l	98
31) Cyclohexane	7.65	56	530120	26.23	ug/l	84
32) 1,1,1-Trichloroethane	7.57	97	677550	39.16	ug/l	97
36) 1,1-Dichloropropene	7.79	75	510146	32.76	ug/l	95
37) Ethyl Acetate	6.93	43	277016	30.97	ug/l	97
38) Carbon Tetrachloride	7.78	117	618910	39.32	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
 Data File : VN051810.D
 Acq On : 11 Oct 2018 11:57
 Operator : MD\SY
 Sample : VSTDICCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 3:00:17 PM

Quant Time: Oct 11 12:36:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 11 12:23:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	679895	40.36	ug/l	89
40) Benzene	8.04	78	1528980	32.56	ug/l	100
41) Methacrylonitrile	7.18	41	131847m	27.23	ug/l	
42) 1,2-Dichloroethane	8.13	62	494583	35.23	ug/l	100
43) Isopropyl Acetate	8.17	43	533938	34.71	ug/l #	96
44) Trichloroethene	8.84	130	472454	38.15	ug/l	93
45) 1,2-Dichloropropane	9.12	63	356619	28.89	ug/l	100
46) Dibromomethane	9.21	93	277219	38.23	ug/l	99
47) Bromodichloromethane	9.40	83	554235	36.49	ug/l	97
48) Methyl methacrylate	9.20	41	245488	31.32	ug/l #	79
49) 1,4-Dioxane	9.20	88	86765m	811.97	ug/l	
51) 4-Methyl-2-Pentanone	9.99	43	1438838	156.76	ug/l	96
52) Toluene	10.16	92	1052591	37.84	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	570240	37.72	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	616978	35.64	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	391370	37.91	ug/l	95
56) Ethyl methacrylate	10.43	69	472767	40.37	ug/l #	89
57) 1,3-Dichloropropane	10.71	76	595531	34.94	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	1031988	206.40	ug/l	90
59) 2-Hexanone	10.75	43	1019598	166.87	ug/l	97
60) Dibromochloromethane	10.90	129	478846	41.42	ug/l	100
61) 1,2-Dibromoethane	11.01	107	410678	41.13	ug/l	98
64) Tetrachloroethene	10.63	164	459740	39.24	ug/l	99
65) Chlorobenzene	11.44	112	1231132	38.18	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	468693	39.73	ug/l	100
67) Ethyl Benzene	11.51	91	2072280	39.53	ug/l	97
68) m/p-Xylenes	11.62	106	1697576	85.32	ug/l	95
69) o-Xylene	11.95	106	823030	43.03	ug/l	94
70) Styrene	11.96	104	1302935	43.57	ug/l	99
71) Bromoform	12.13	173	327668	40.39	ug/l #	99
73) Isopropylbenzene	12.25	105	2210757	42.26	ug/l	98
74) N-amyl acetate	12.07	43	466132	35.46	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.51	83	477706	33.89	ug/l	98
76) 1,2,3-Trichloropropane	12.56	75	373459m	33.75	ug/l	
77) Bromobenzene	12.53	156	554040	38.97	ug/l	89
78) n-propylbenzene	12.59	91	2443322	41.81	ug/l	97
79) 2-Chlorotoluene	12.68	91	1405149	38.60	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	1867629	44.24	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	134558	41.10	ug/l	97
82) 4-Chlorotoluene	12.77	91	1432757	39.87	ug/l	96
83) tert-Butylbenzene	12.99	119	1689830	46.22	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1889863	44.51	ug/l	98
85) sec-Butylbenzene	13.17	105	2276132	47.51	ug/l	99
86) p-Isopropyltoluene	13.29	119	2056852	50.39	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1020735	42.30	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	989296	41.66	ug/l	99
89) n-Butylbenzene	13.62	91	1642516	50.31	ug/l	98
90) Hexachloroethane	13.88	117	355123	42.03	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	984694	42.30	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	77206	41.09	ug/l	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
Data File : VN051810.D
Acq On : 11 Oct 2018 11:57
Operator : MD\SY
Sample : VSTDICCC050
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

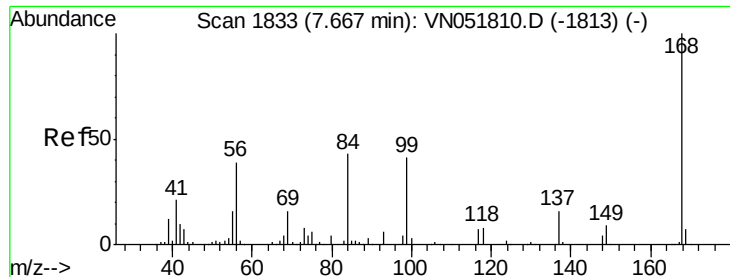
Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM

Quant Time: Oct 11 12:36:32 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 11 12:23:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	490396	48.40	ug/l	99
94) Hexachlorobutadiene	15.01	225	317459	41.82	ug/l	100
95) Naphthalene	15.14	128	1031028	51.57	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	481519	48.80	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 168 Resp: 908522

Ion Ratio Lower Upper

168 100

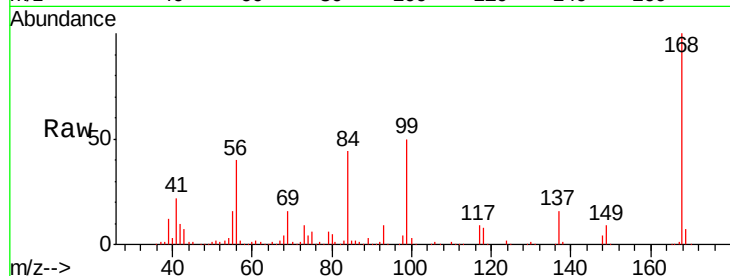
99 49.4 39.6 59.4

Manual Integrations

APPROVED

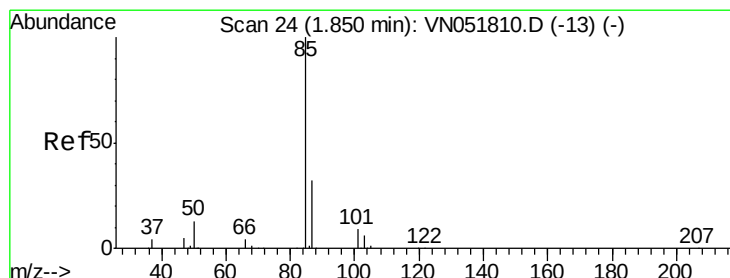
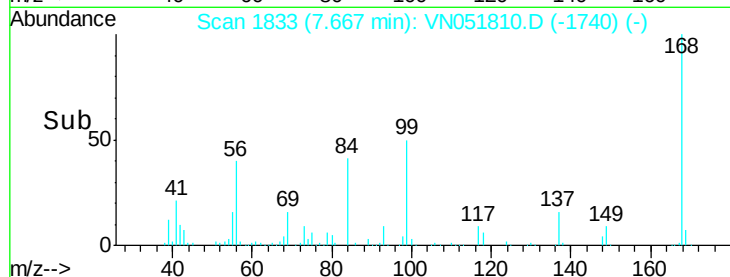
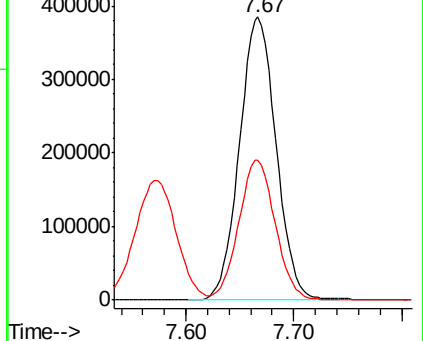
MMDadoda

10/15/2018 3:00:17 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 19.07 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051810.D

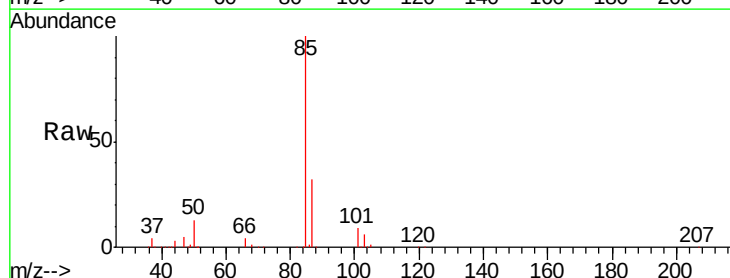
Acq: 11 Oct 2018 11:57

Tgt Ion: 85 Resp: 231876

Ion Ratio Lower Upper

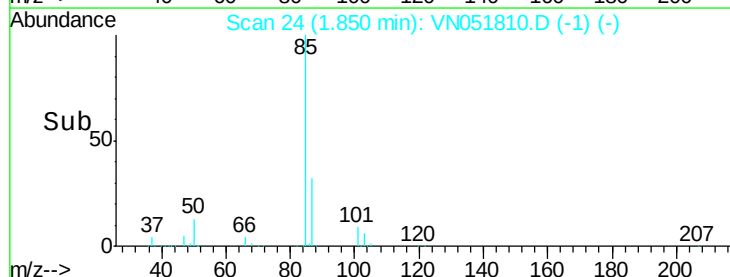
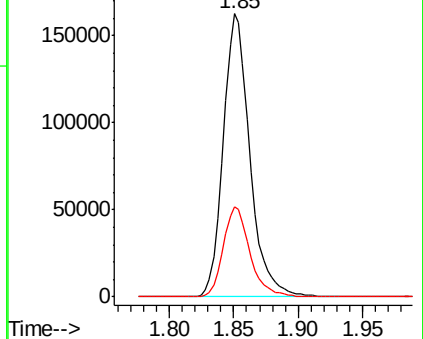
85 100

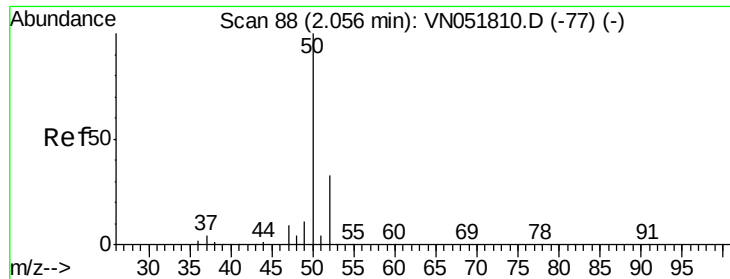
87 31.9 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 18.65 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 279661

Ion Ratio Lower Upper

50 100

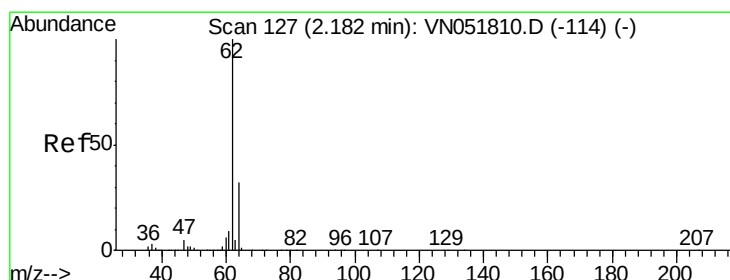
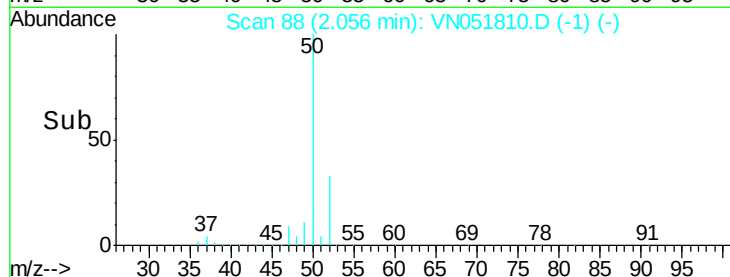
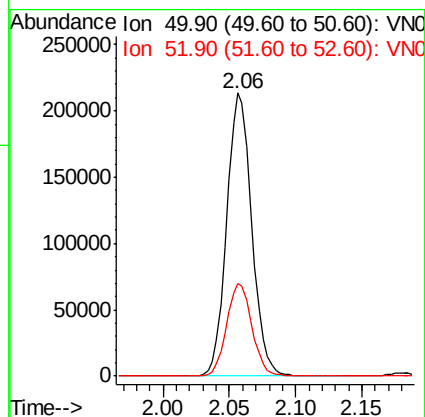
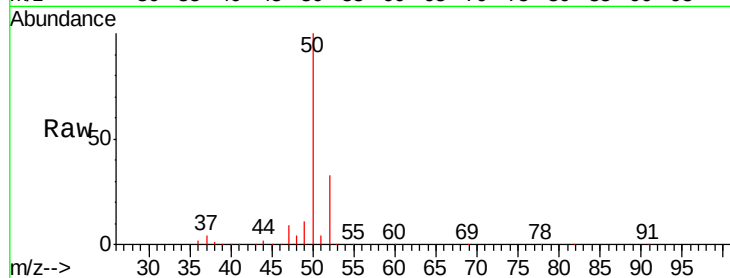
52 32.9 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:17 PM



#4

Vinyl Chloride

Concen: 30.62 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051810.D

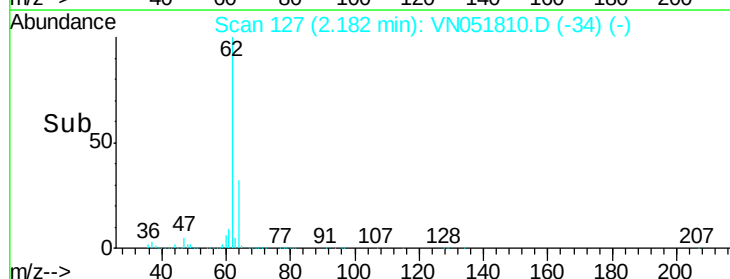
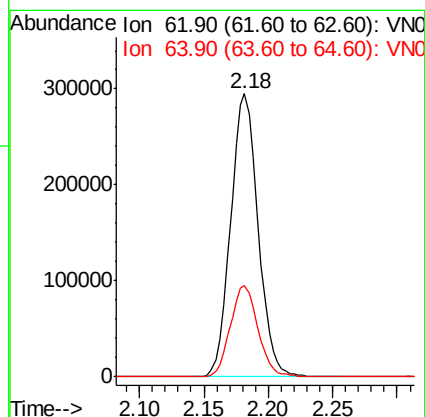
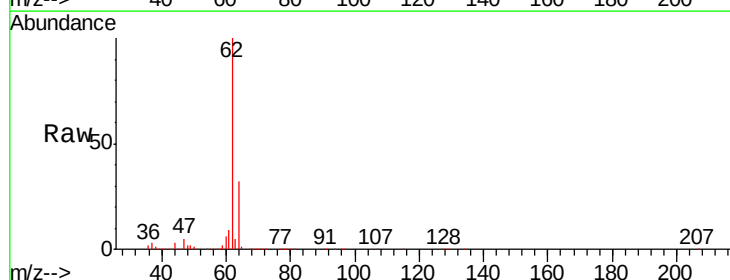
Acq: 11 Oct 2018 11:57

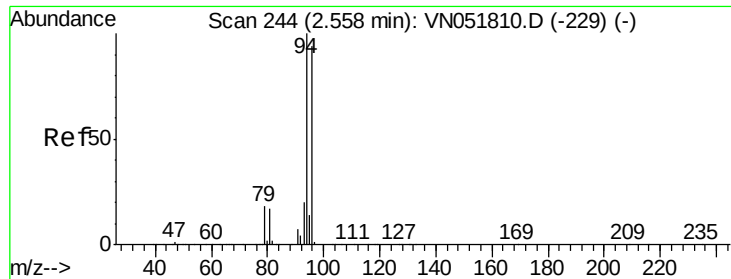
Tgt Ion: 62 Resp: 435040

Ion Ratio Lower Upper

62 100

64 32.3 25.4 38.2





#5

Bromomethane

Concen: 42.16 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 385535

Ion Ratio Lower Upper

94 100

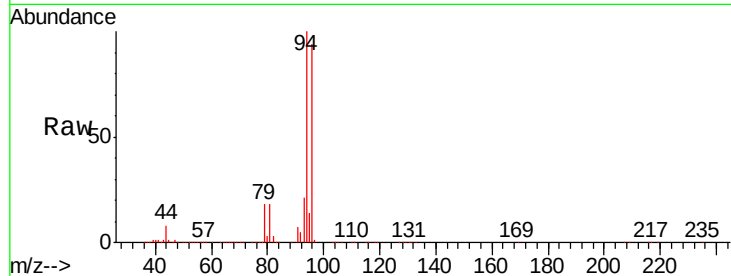
96 93.8 76.2 114.2

Manual Integrations

APPROVED

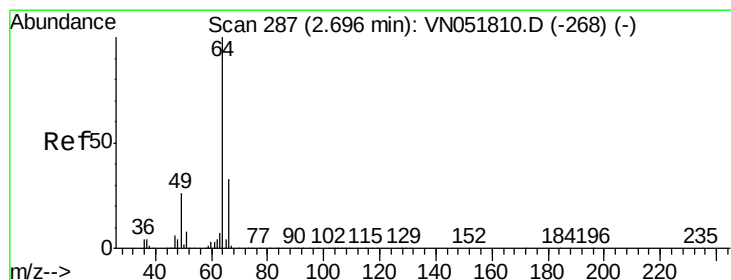
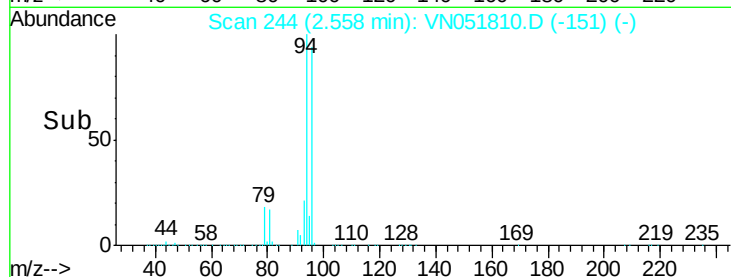
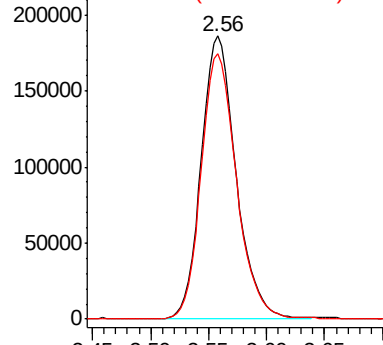
MMDadoda

10/15/2018 3:00:17 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 39.08 ug/l

RT: 2.70 min Scan# 287

Delta R.T. 0.00 min

Lab File: VN051810.D

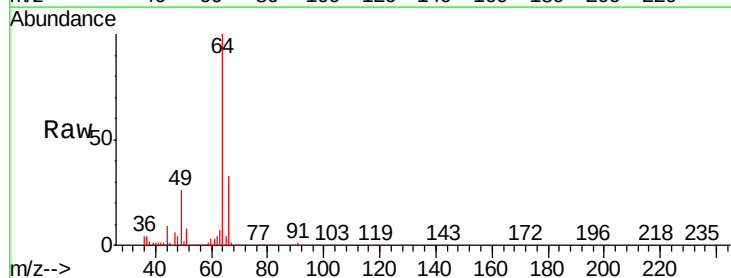
Acq: 11 Oct 2018 11:57

Tgt Ion: 64 Resp: 320777

Ion Ratio Lower Upper

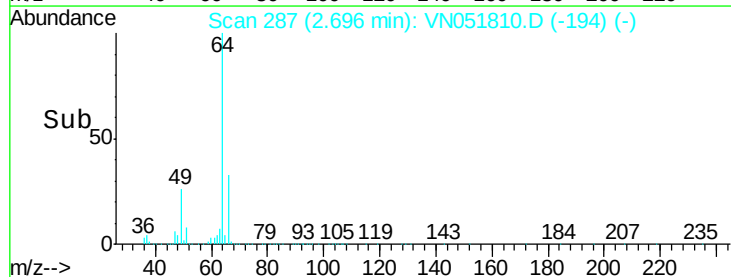
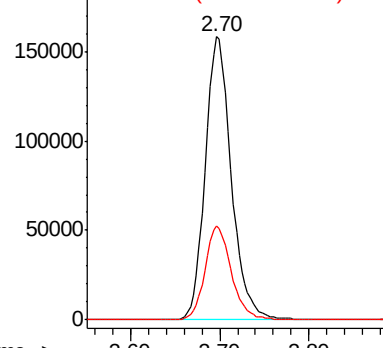
64 100

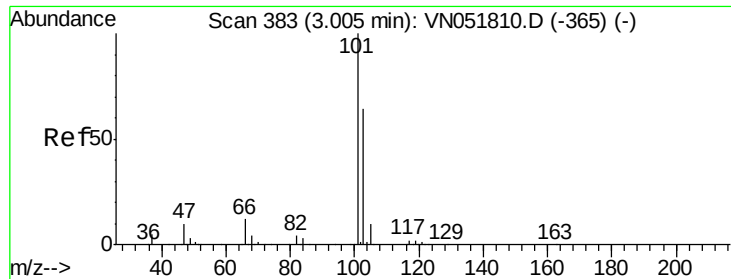
66 33.0 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

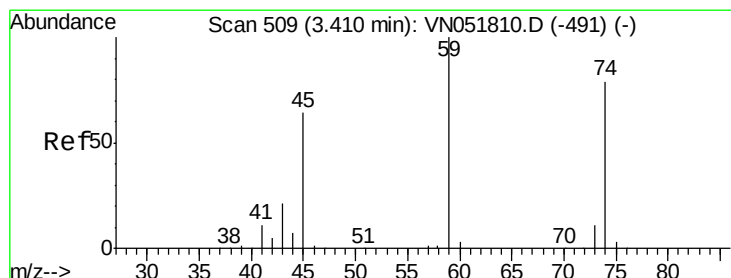
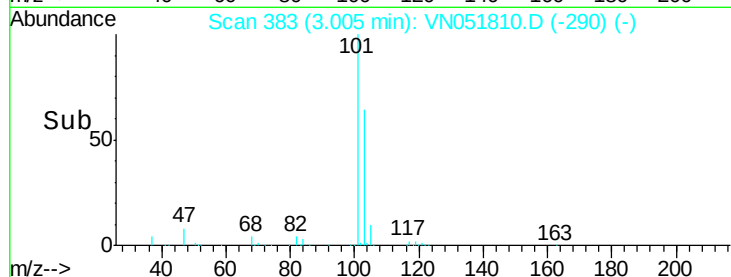
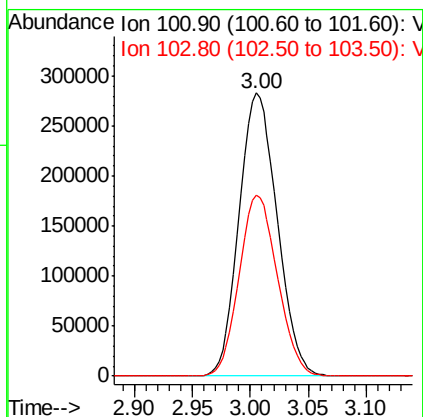
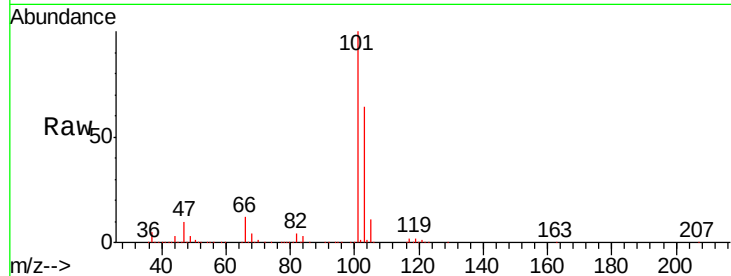
Trichlorofluoromethane
Concen: 35.63 ug/l
RT: 3.00 min Scan# 383
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 101 Resp: 648192
Ion Ratio Lower Upper
101 100
103 63.6 51.6 77.4

Manual Integrations
APPROVED

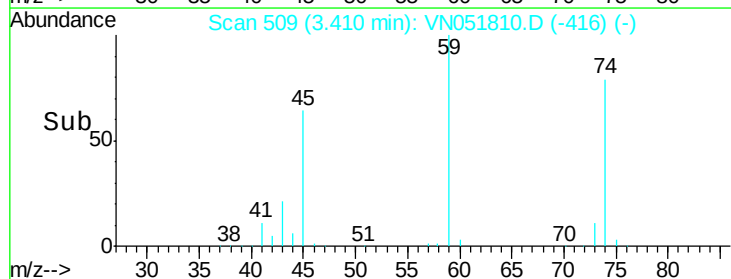
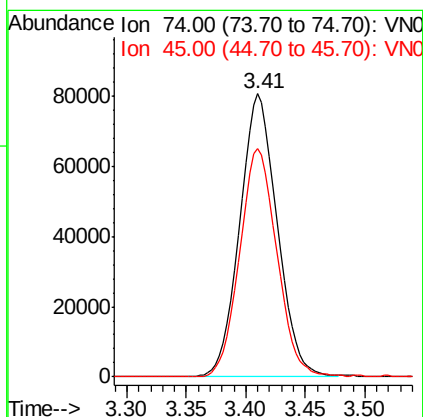
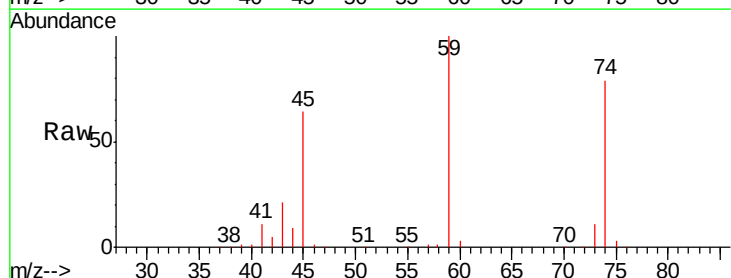
MMDadoda
10/15/2018 3:00:17 PM

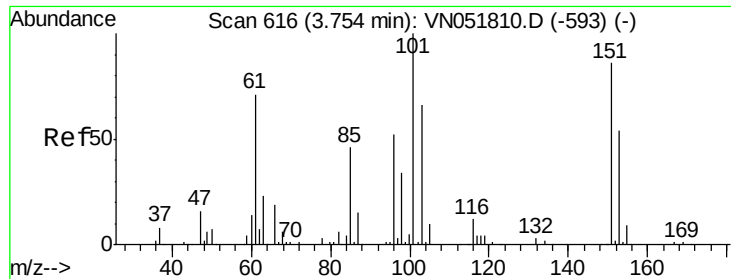


#8

Diethyl Ether
Concen: 28.41 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion: 74 Resp: 175715
Ion Ratio Lower Upper
74 100
45 80.3 48.2 144.6





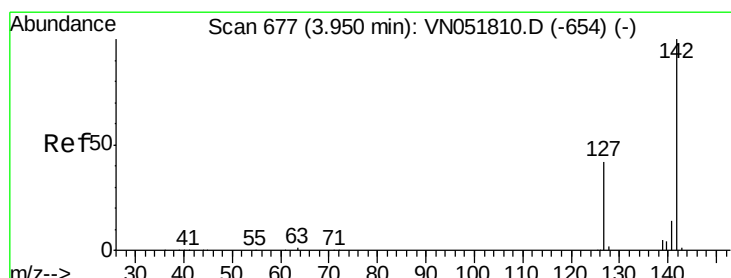
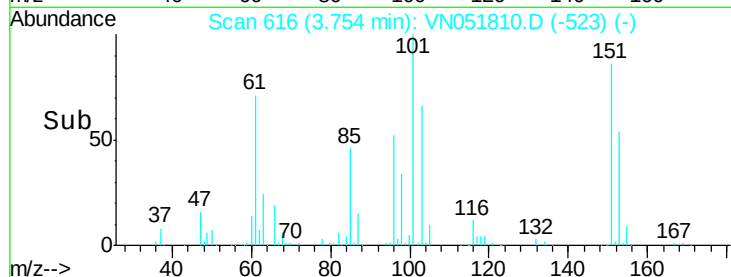
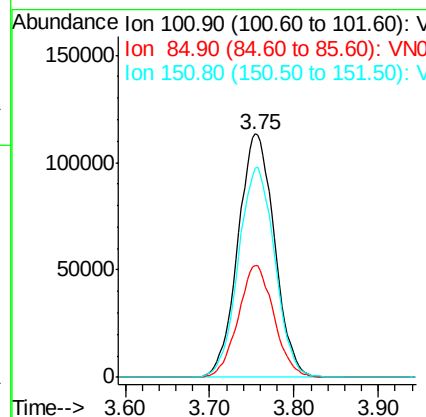
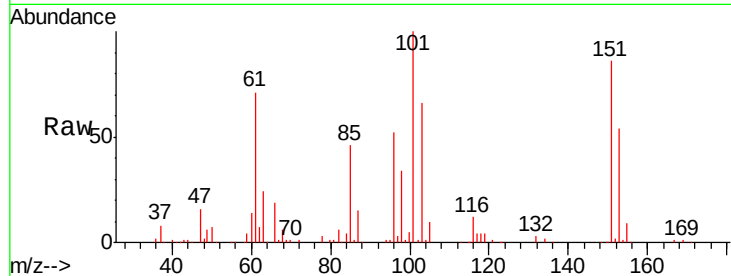
#9
1,1,2-Trichlorotrifluoroethane
Concen: 30.06 ug/l
RT: 3.75 min Scan# 616
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	341572		
85	45.1	33.7	50.5	
151	86.0	67.4	101.2	

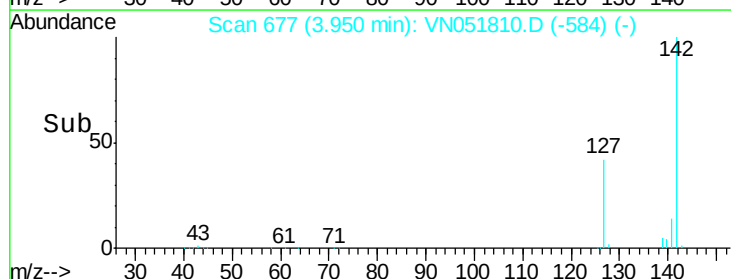
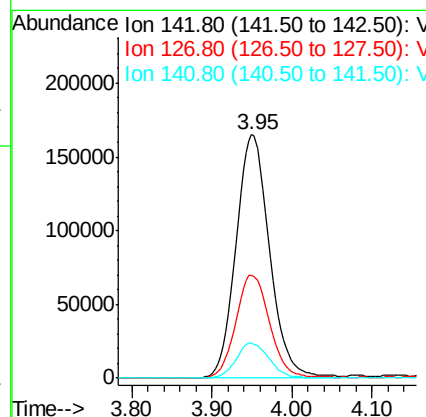
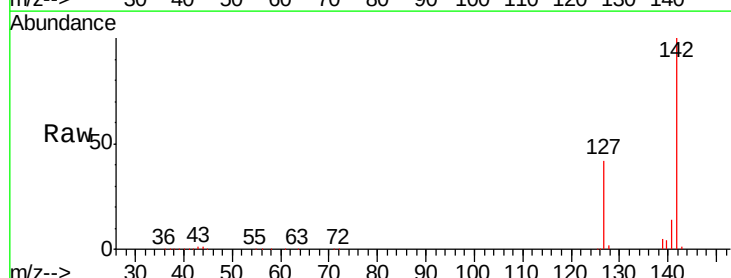
Manual Integrations
APPROVED

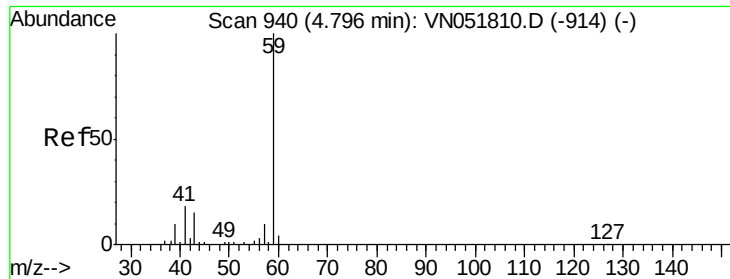
MMDadoda
10/15/2018 3:00:17 PM



#10
Methyl Iodide
Concen: 52.02 ug/l
RT: 3.95 min Scan# 677
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	469291		
127	42.8	31.7	47.5	
141	14.1	11.4	17.0	





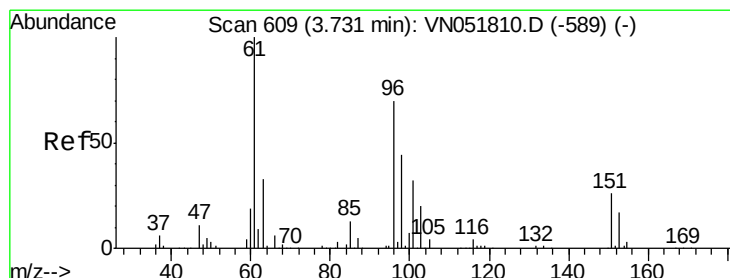
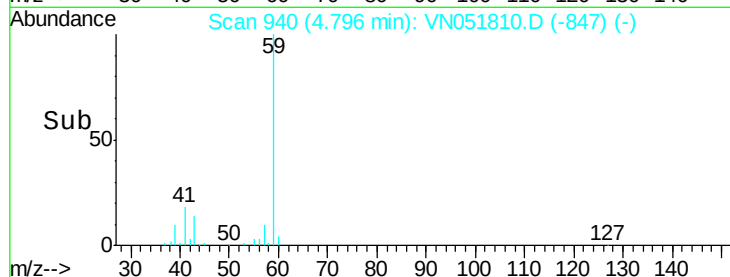
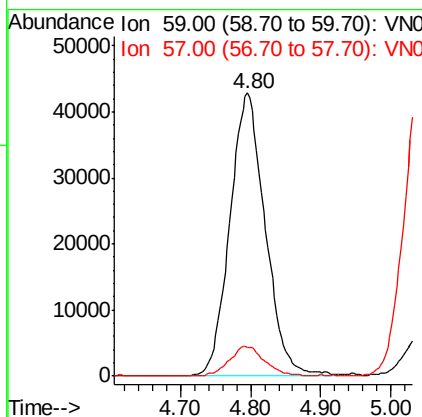
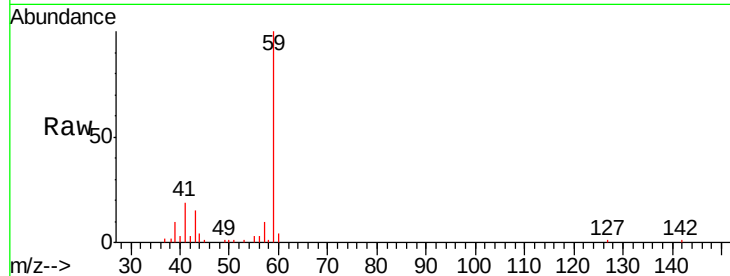
#11
Tert butyl alcohol
Concen: 215.12 ug/l
RT: 4.80 min Scan# 940
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 149825
Ion Ratio Lower Upper
59 100
57 10.5 8.3 12.5

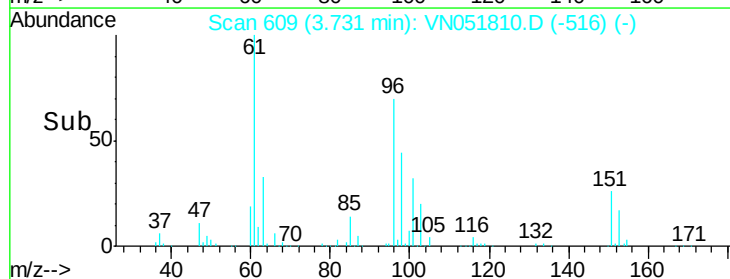
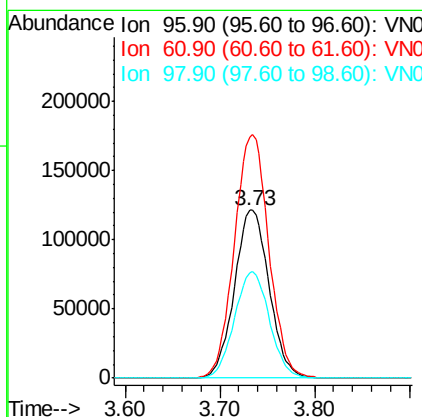
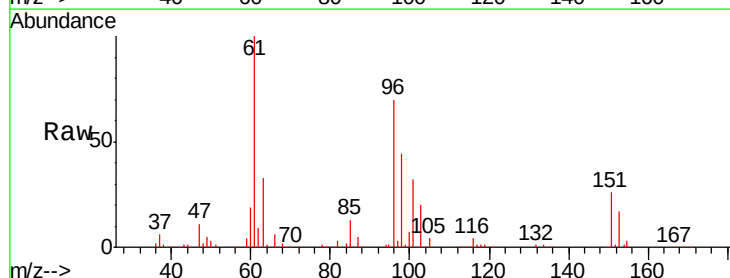
Manual Integrations
APPROVED

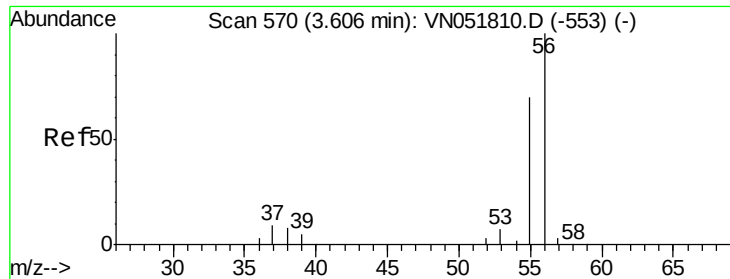
MMDadoda
10/15/2018 3:00:17 PM



#12
1,1-Dichloroethene
Concen: 30.29 ug/l
RT: 3.73 min Scan# 609
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion: 96 Resp: 309112
Ion Ratio Lower Upper
96 100
61 143.3 124.9 187.3
98 62.9 51.1 76.7





#13

Acrolein

Concen: 410.56 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 156190

Ion Ratio Lower Upper

56 100

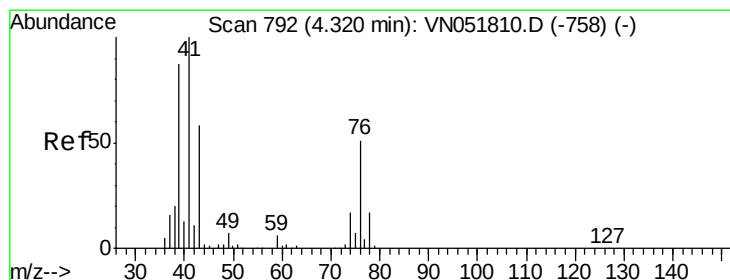
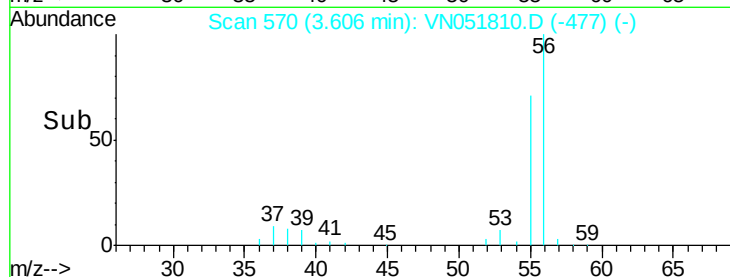
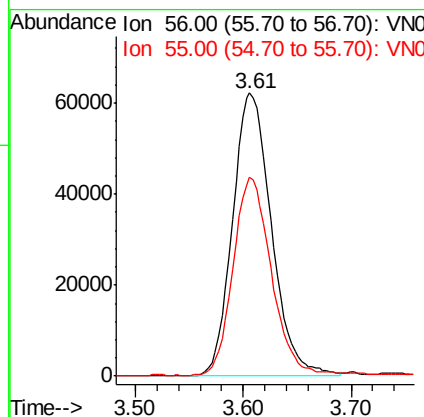
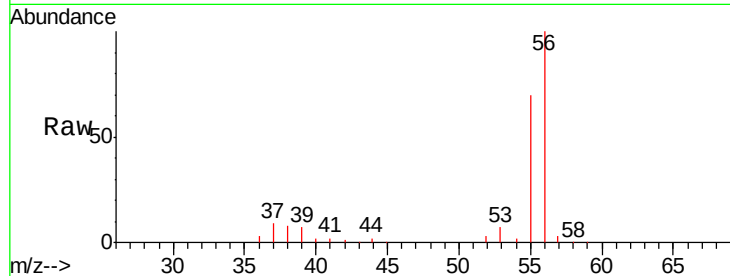
55 69.0 57.7 86.5

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:17 PM



#14

Allyl chloride

Concen: 25.00 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

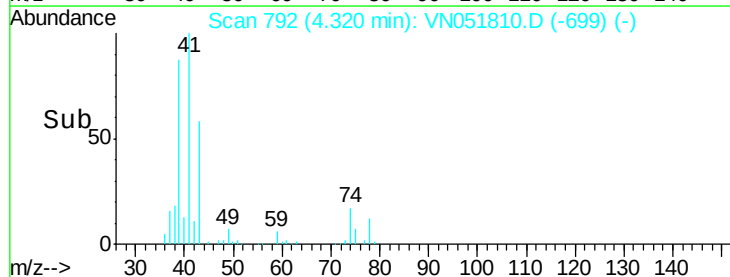
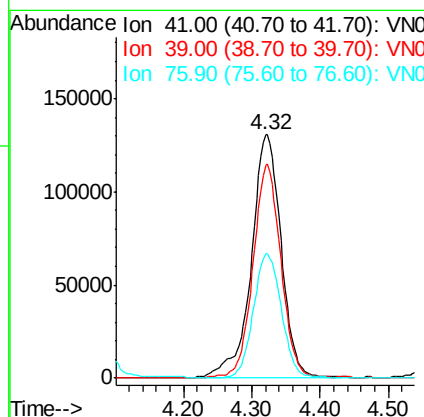
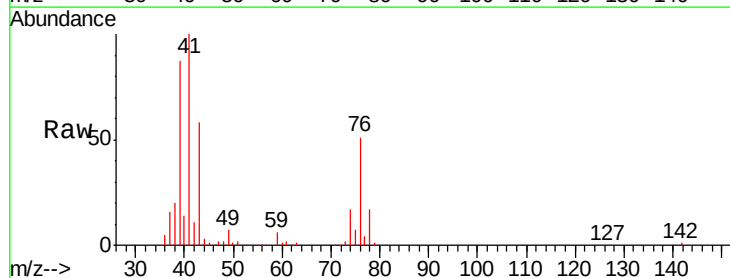
Tgt Ion: 41 Resp: 397428

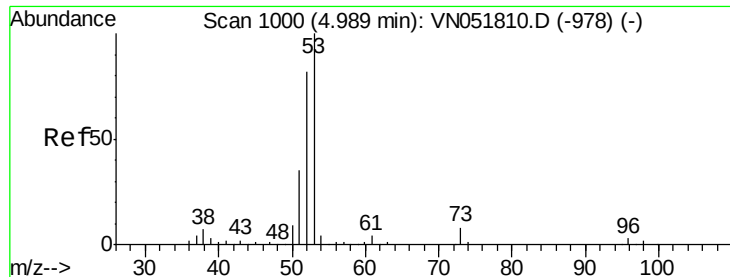
Ion Ratio Lower Upper

41 100

39 81.2 50.2 75.2#

76 47.1 29.8 44.8#





#15

Acrylonitrile

Concen: 146.02 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

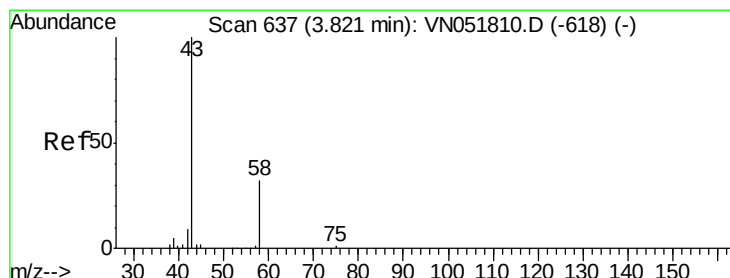
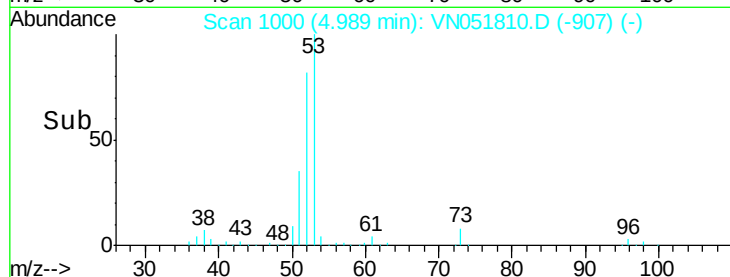
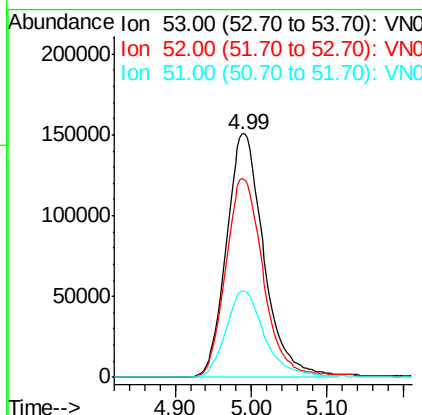
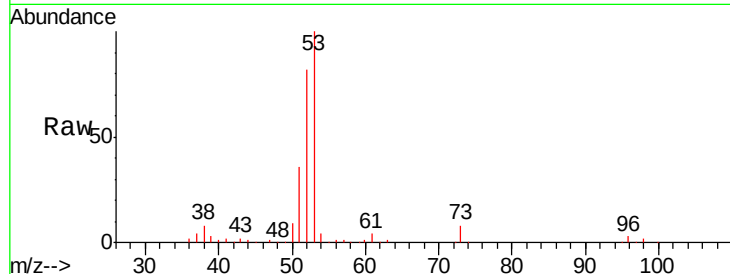
ClientSampleId :

VSTDICCC050

Tgt Ion:	53	Resp:	516846
Ion	Ratio	Lower	Upper
53	100		
52	81.2	65.9	98.9
51	36.8	28.6	43.0

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



#16

Acetone

Concen: 145.29 ug/l

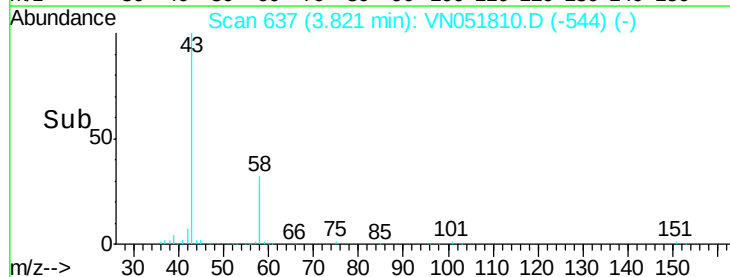
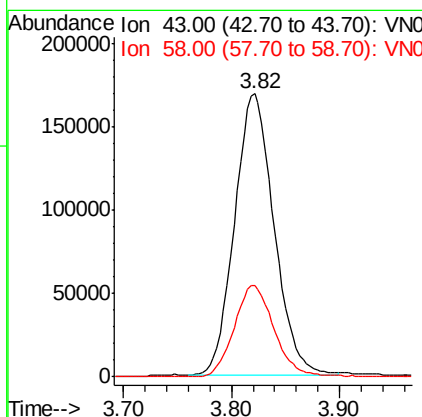
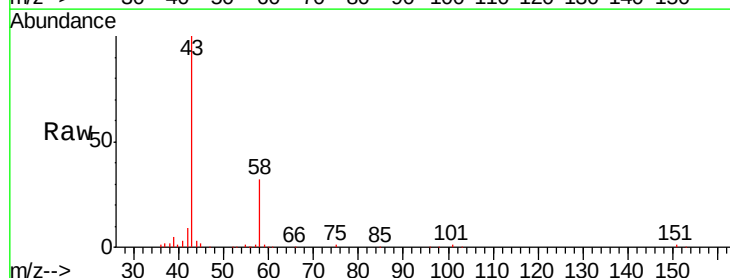
RT: 3.82 min Scan# 637

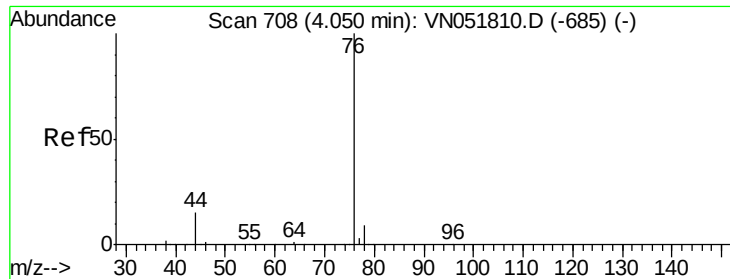
Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Tgt Ion:	43	Resp:	429442
Ion	Ratio	Lower	Upper
43	100		
58	32.5	27.2	40.8





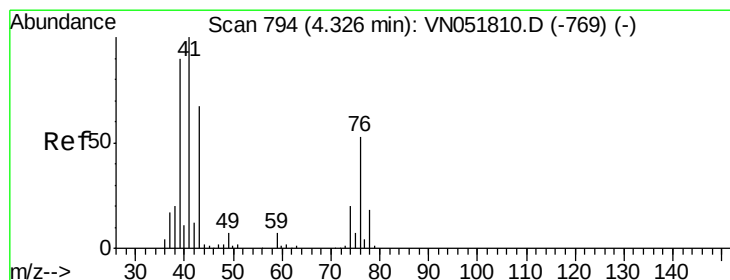
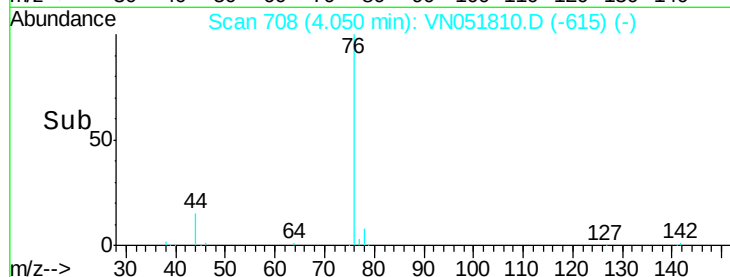
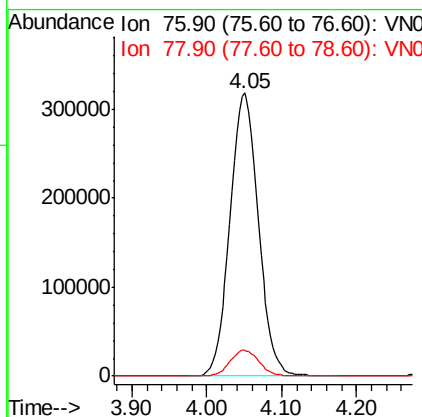
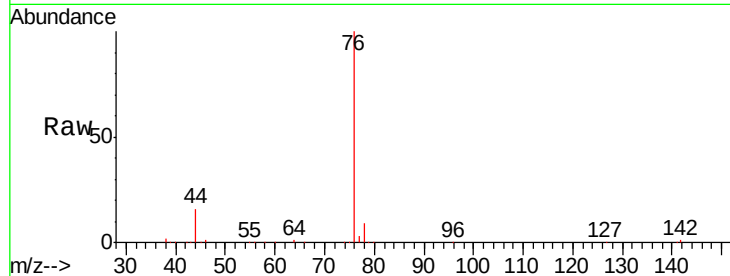
#17
Carbon Disulfide
Concen: 24.64 ug/l
RT: 4.05 min Scan# 708
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

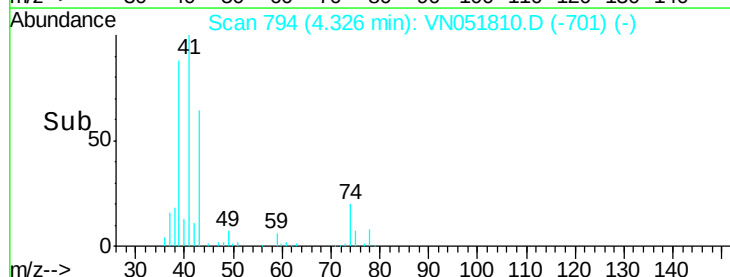
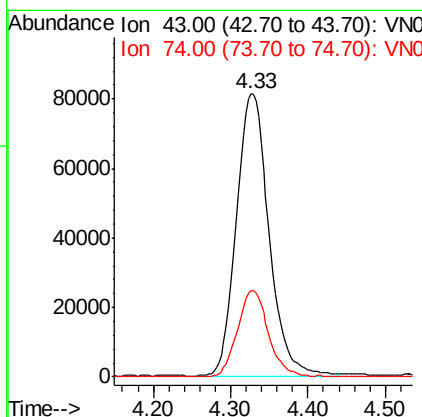
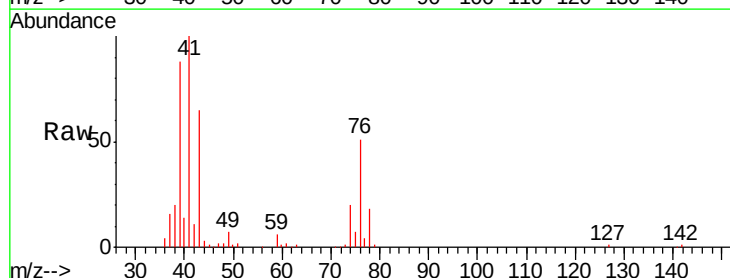
Manual Integrations
APPROVED

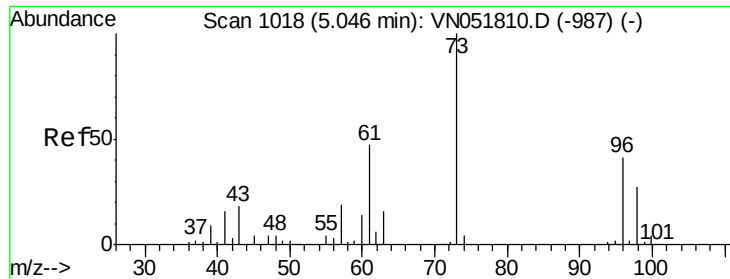
MMDadoda
10/15/2018 3:00:17 PM



#18
Methyl Acetate
Concen: 23.00 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
43	100		
74	29.2	19.8	29.8





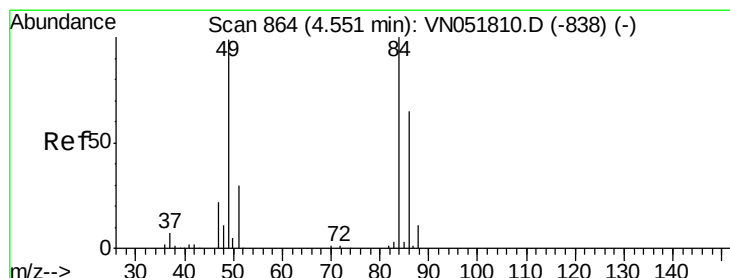
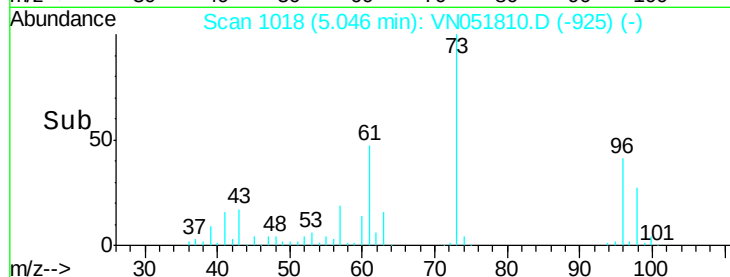
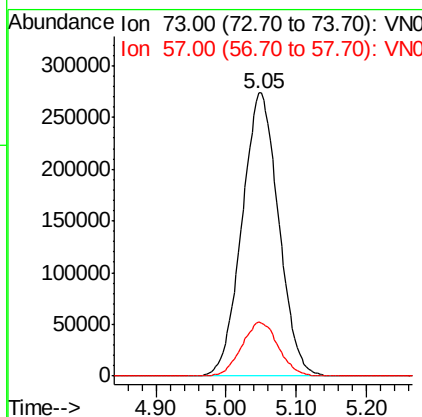
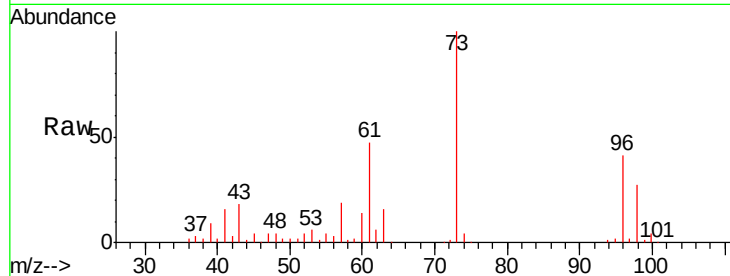
#19
Methyl tert-butyl Ether
Concen: 38.62 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 991153
Ion Ratio Lower Upper
73 100
57 19.2 17.8 26.8

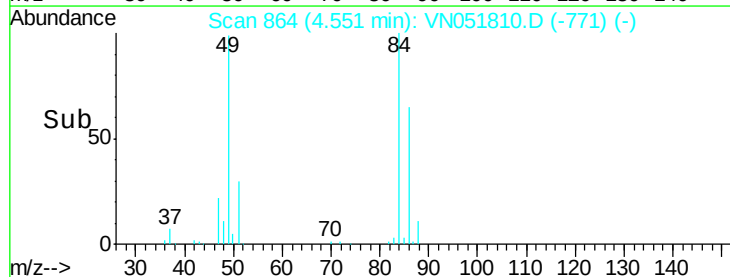
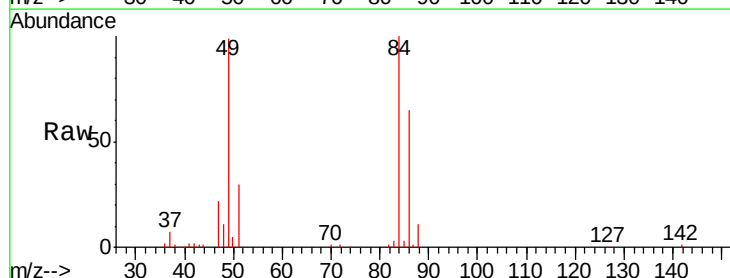
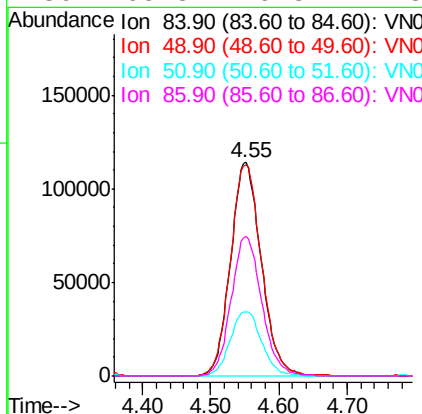
Manual Integrations
APPROVED

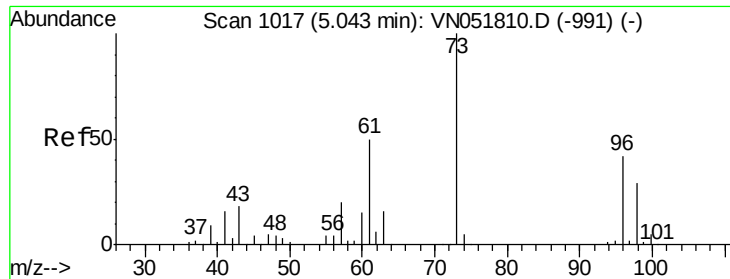
MMDadoda
10/15/2018 3:00:17 PM



#20
Methylene Chloride
Concen: 28.94 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion: 84 Resp: 356709
Ion Ratio Lower Upper
84 100
49 99.0 93.2 139.8
51 30.1 29.0 43.6
86 65.3 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 32.85 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 362566

Ion Ratio Lower Upper

96 100

61 117.7 107.4 161.0

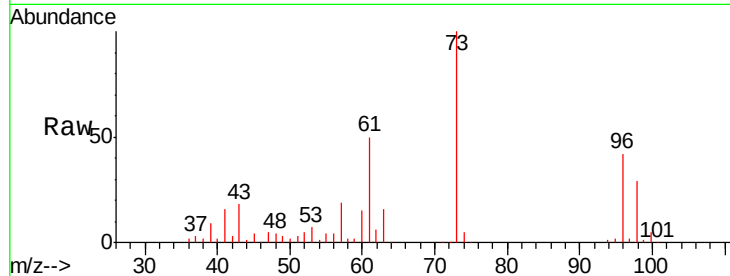
98 68.1 50.7 76.1

Manual Integrations

APPROVED

MMDadoda

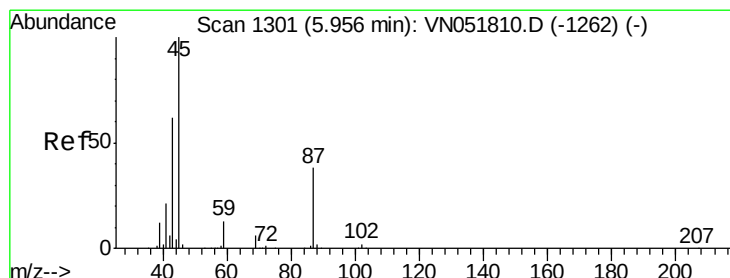
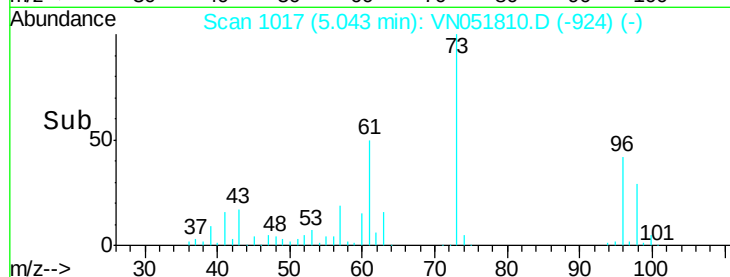
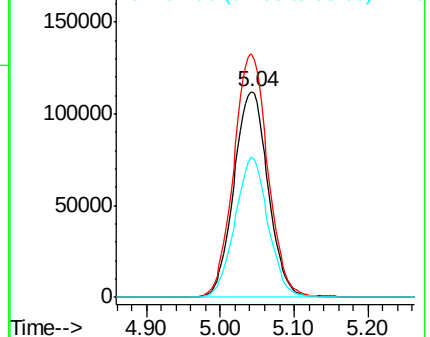
10/15/2018 3:00:17 PM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 27.43 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Tgt Ion: 45 Resp: 869087

Ion Ratio Lower Upper

45 100

43 62.2 45.9 68.9

87 38.3 22.7 34.1#

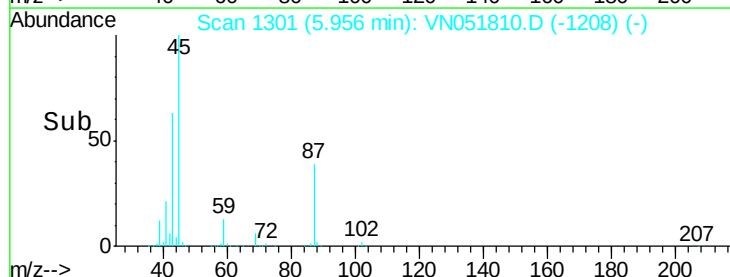
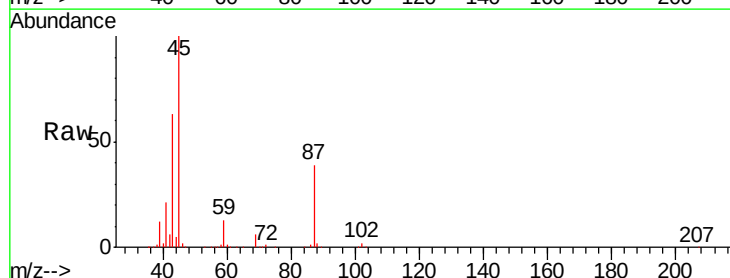
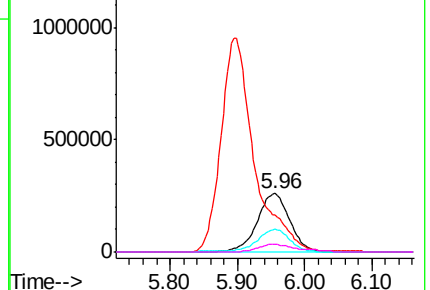
59 13.1 9.3 13.9

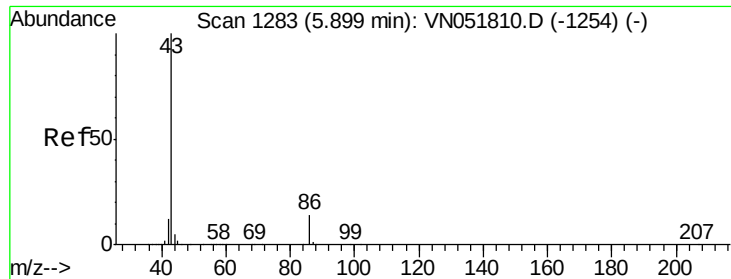
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 160.75 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 3280417

Ion Ratio Lower Upper

43 100

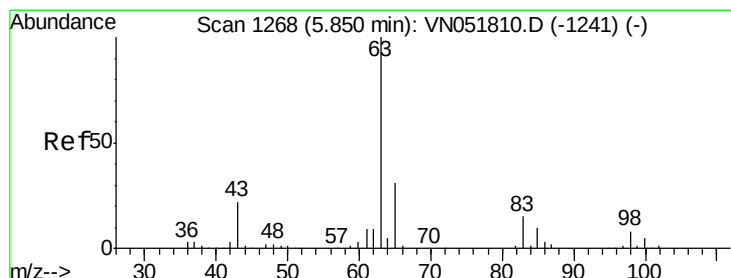
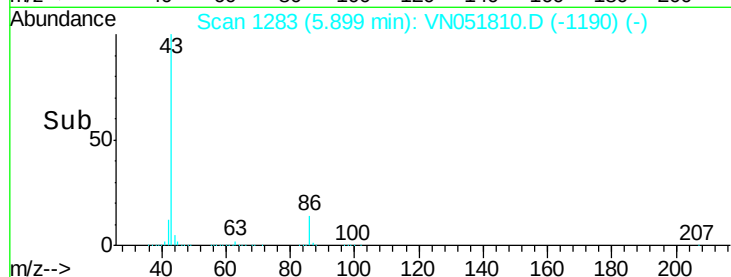
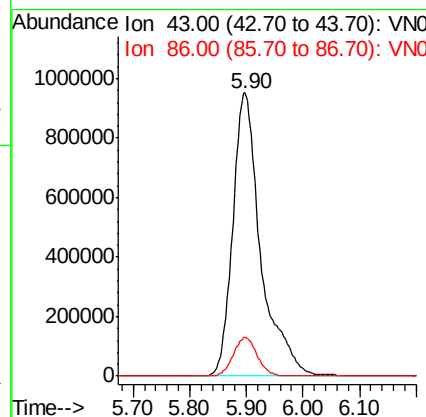
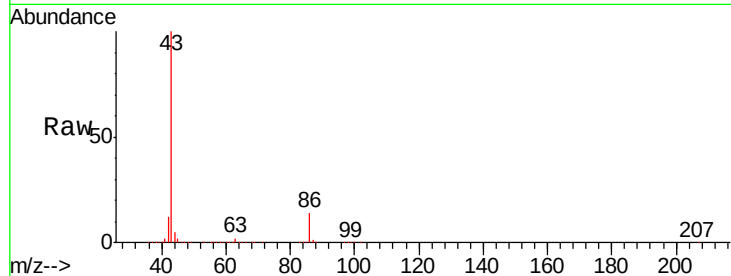
86 13.6 8.7 13.1#

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:17 PM



#24

1,1-Dichloroethane

Concen: 29.35 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

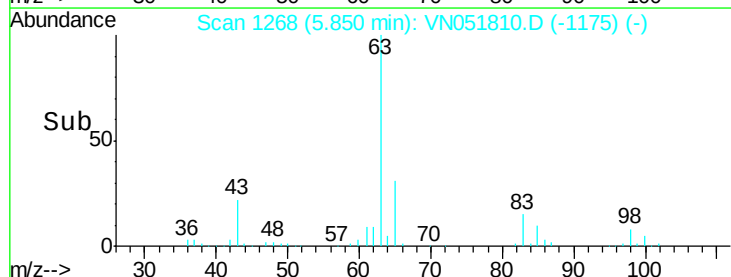
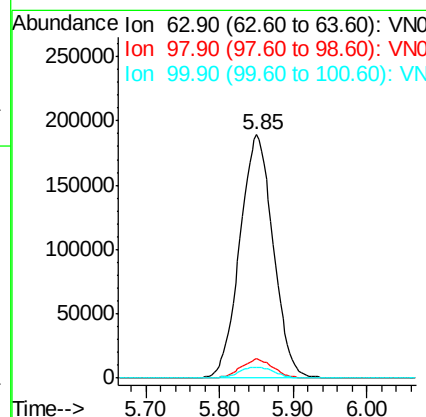
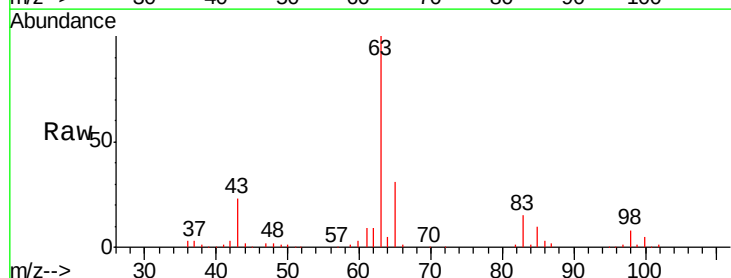
Tgt Ion: 63 Resp: 596999

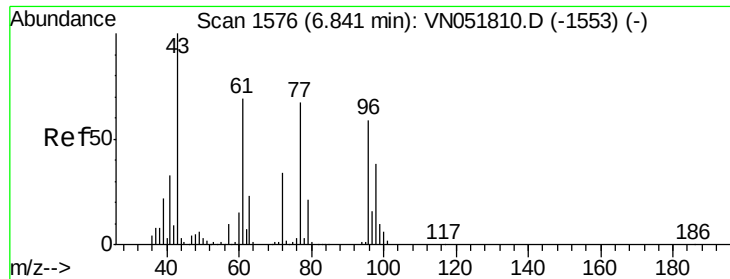
Ion Ratio Lower Upper

63 100

98 8.0 3.3 9.8

100 4.6 2.1 6.5





#25

2-Butanone

Concen: 145.30 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 640414

Ion Ratio Lower Upper

43 100

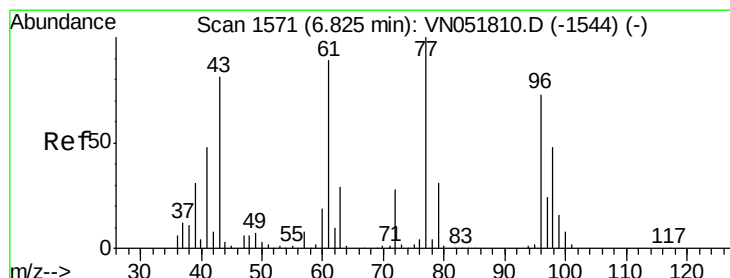
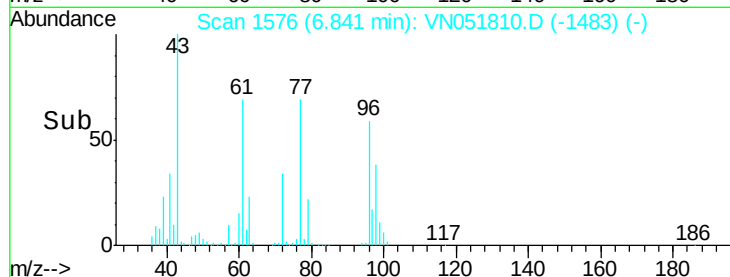
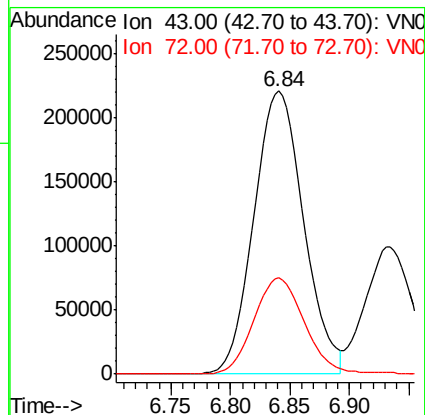
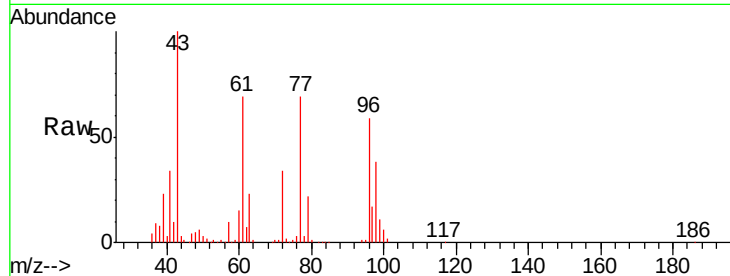
72 34.1 22.3 33.5#

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:17 PM



#26

2,2-Dichloropropane

Concen: 37.33 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN051810.D

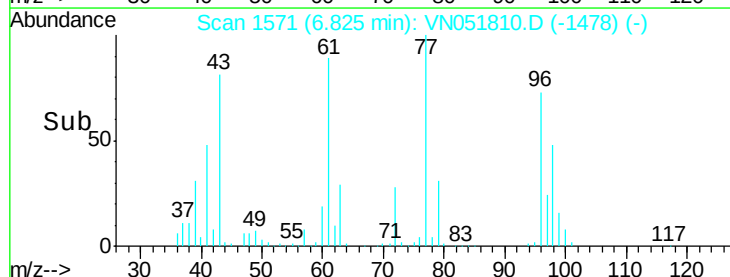
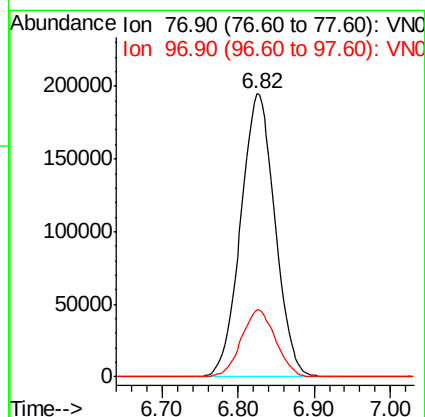
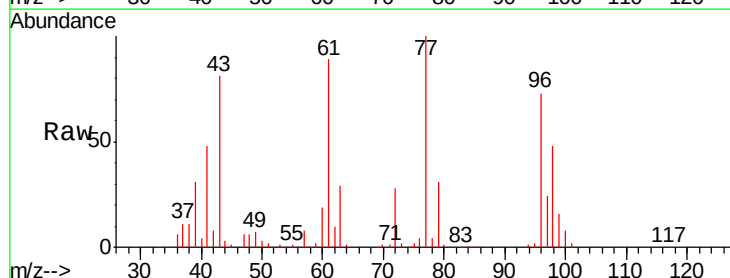
Acq: 11 Oct 2018 11:57

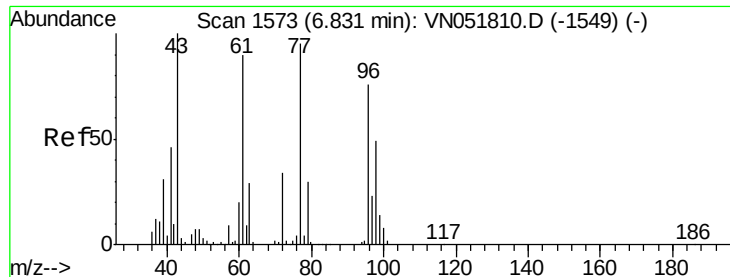
Tgt Ion: 77 Resp: 610166

Ion Ratio Lower Upper

77 100

97 23.8 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 36.27 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

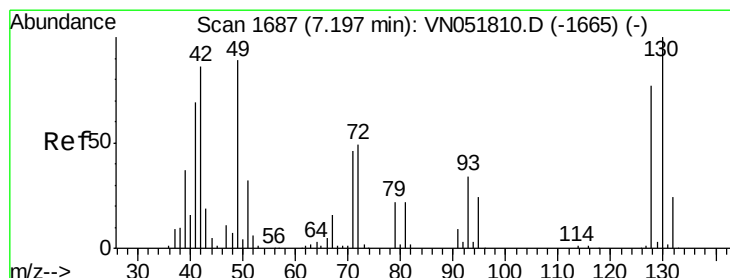
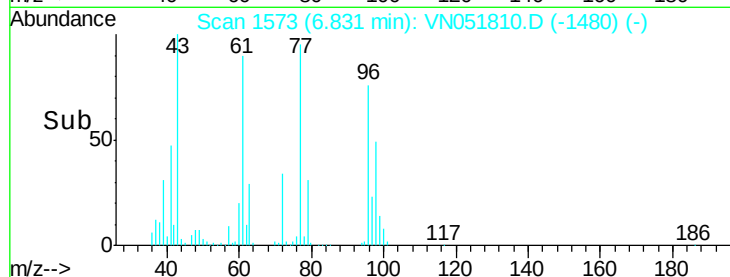
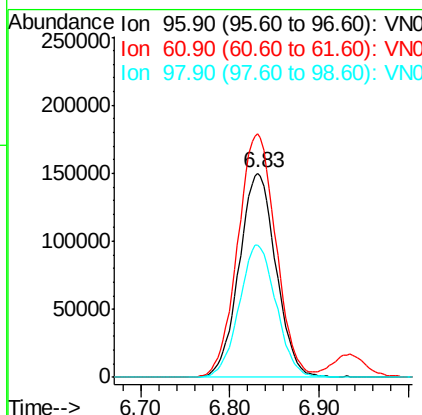
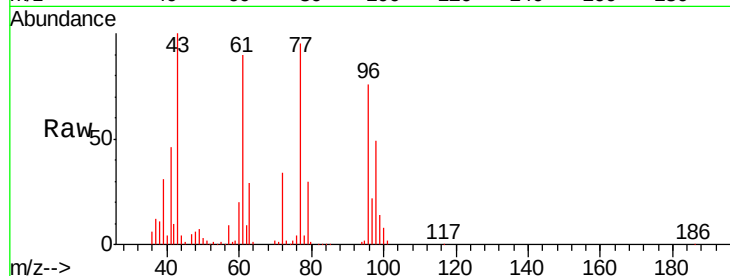
ClientSampleId :

VSTDICCC050

Tgt Ion:	96	Resp:	431515
Ion	Ratio	Lower	Upper
96	100		
61	123.1	0.0	283.4
98	65.1	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



#28

Bromochloromethane

Concen: 27.49 ug/l

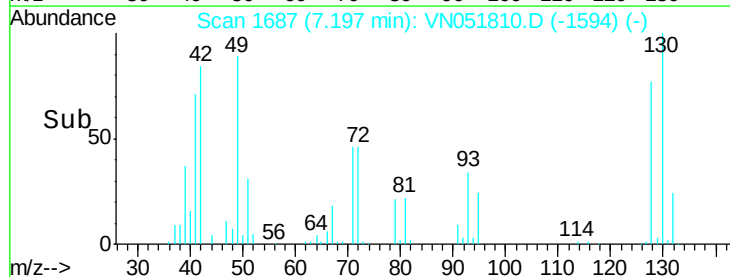
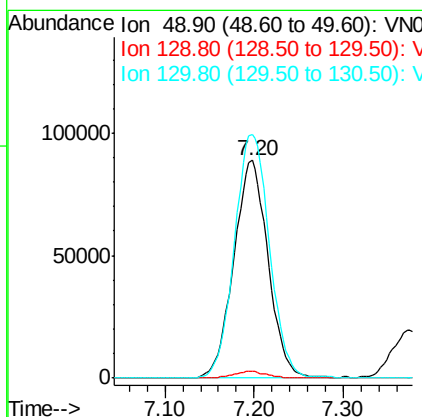
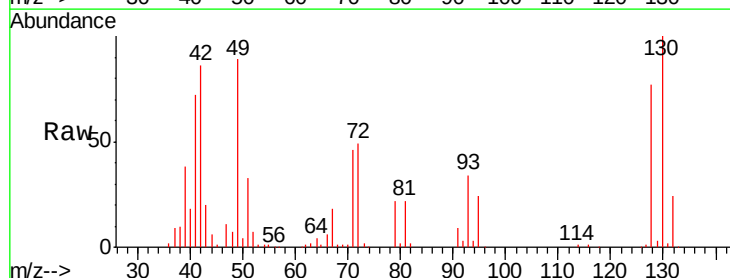
RT: 7.20 min Scan# 1687

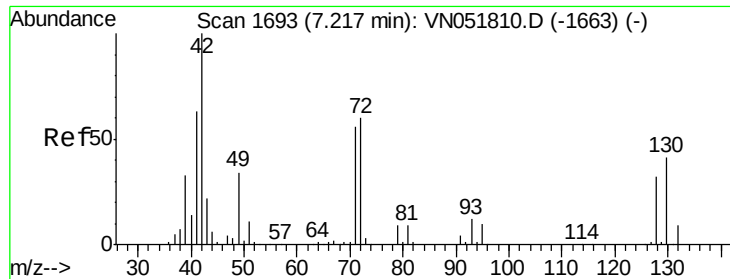
Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Tgt Ion:	49	Resp:	237614
Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	4.2
130	114.0	67.1	100.7#





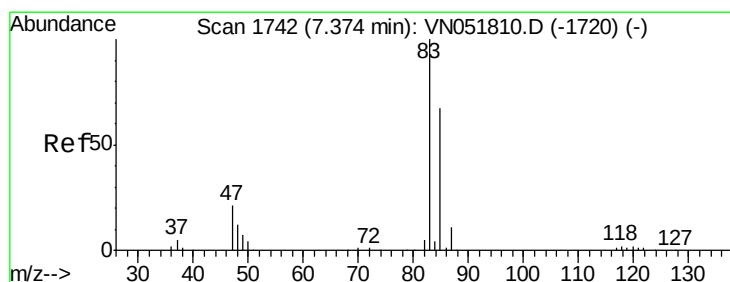
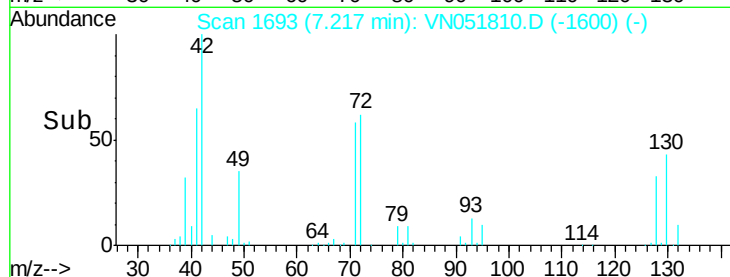
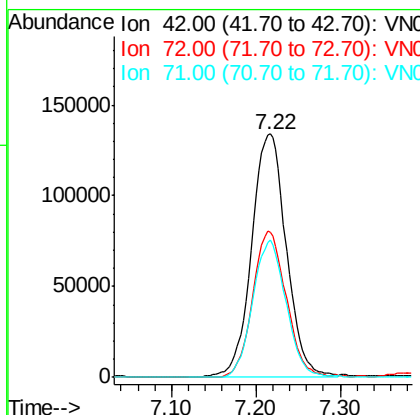
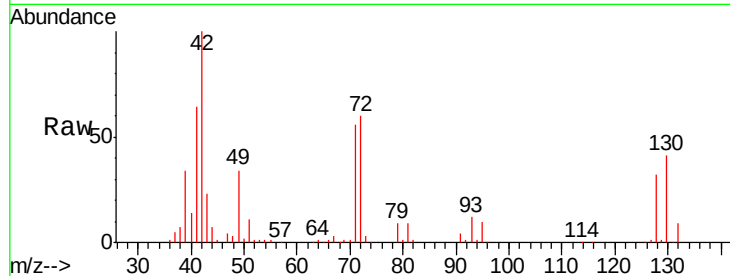
#29
Tetrahydrofuran
Concen: 150.81 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
42	100		
72	58.3	35.5	53.3#
71	54.4	33.7	50.5#

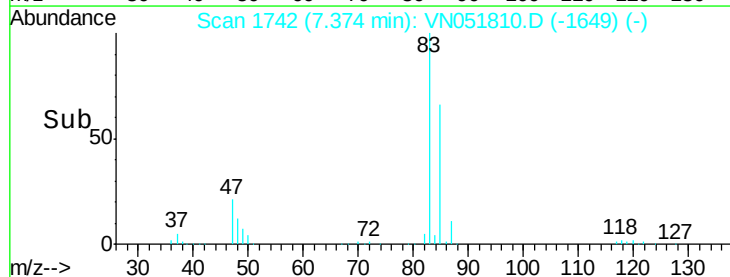
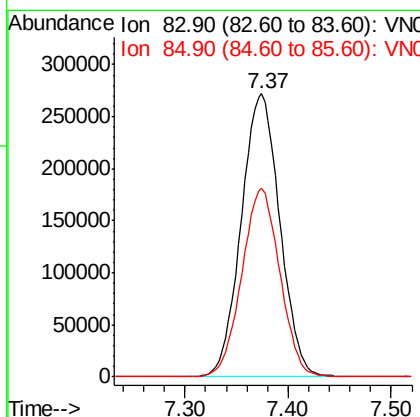
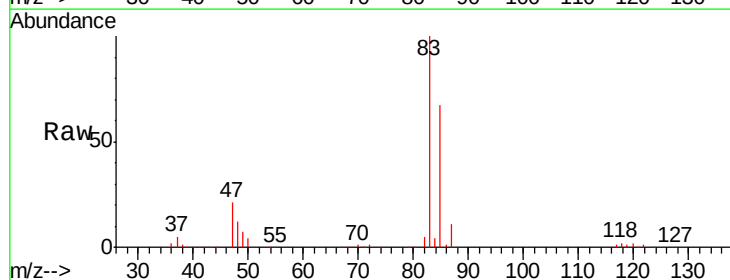
Manual Integrations
APPROVED

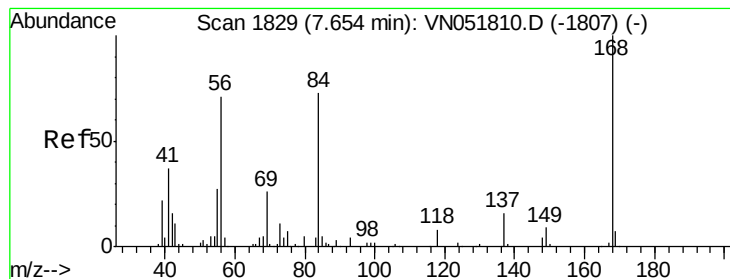
MMDadoda
10/15/2018 3:00:17 PM



#30
Chloroform
Concen: 35.08 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	52.2	78.4





#31

Cyclohexane

Concen: 26.23 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 530120
Ion Ratio Lower Upper

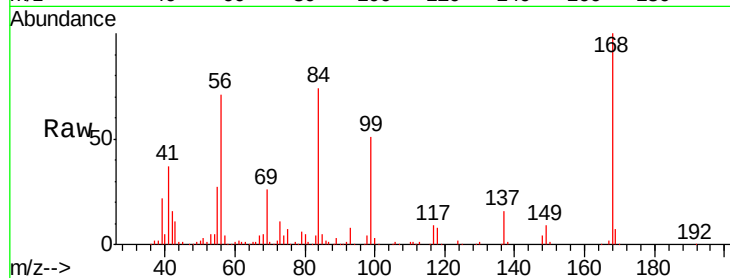
56 100

69 37.0 26.2 39.4

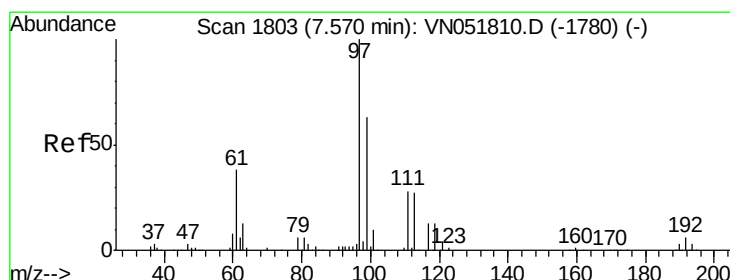
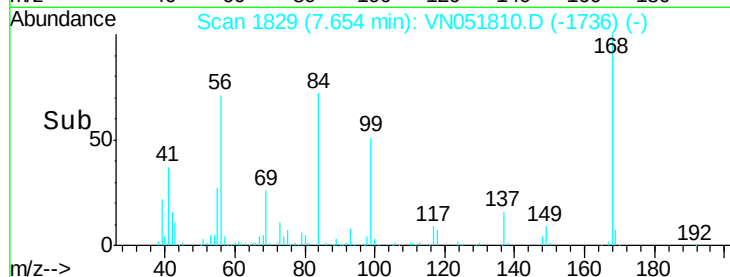
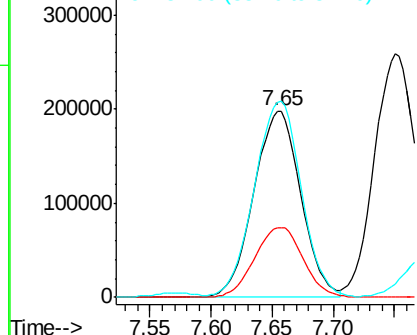
84 102.4 68.3 102.5

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 39.16 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN051810.D

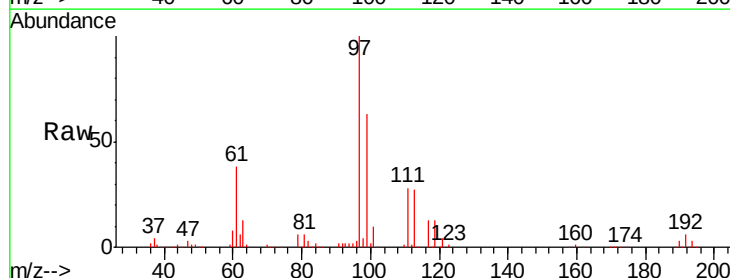
Acq: 11 Oct 2018 11:57

Tgt Ion: 97 Resp: 677550
Ion Ratio Lower Upper

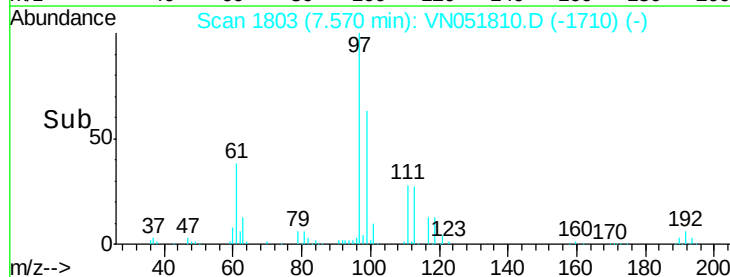
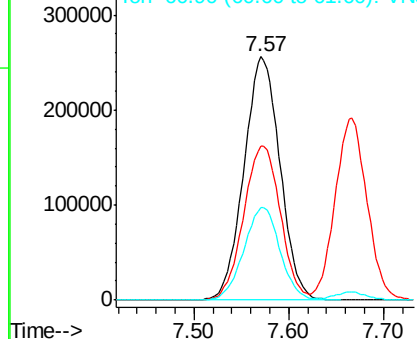
97 100

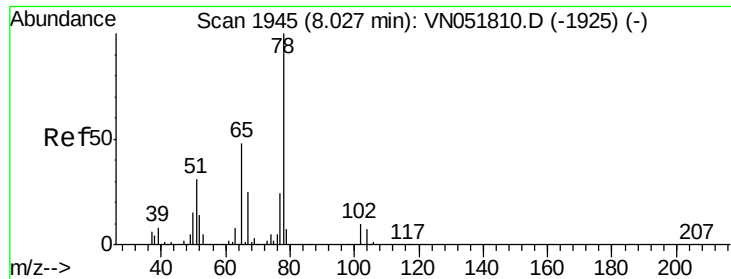
99 64.7 51.8 77.6

61 38.2 34.9 52.3



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





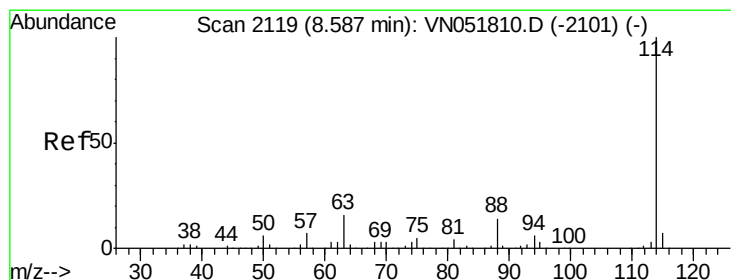
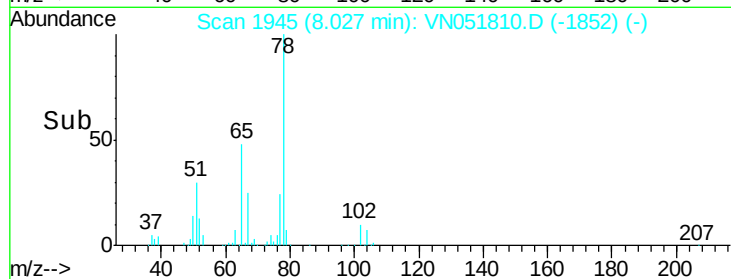
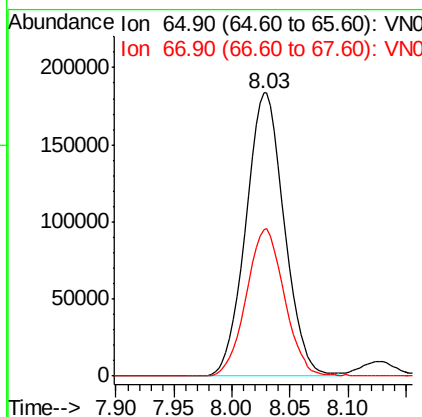
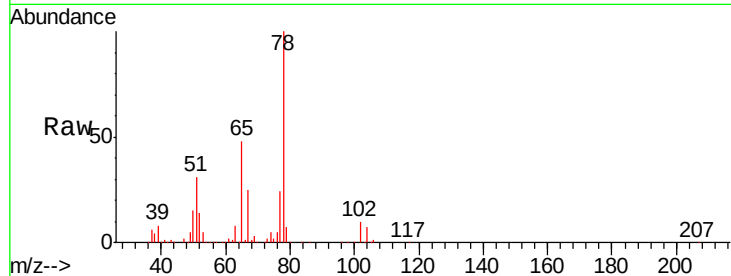
#33
 1,2-Dichloroethane-d4
 Concen: 39.16 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion: 65 Resp: 424162
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 110.4

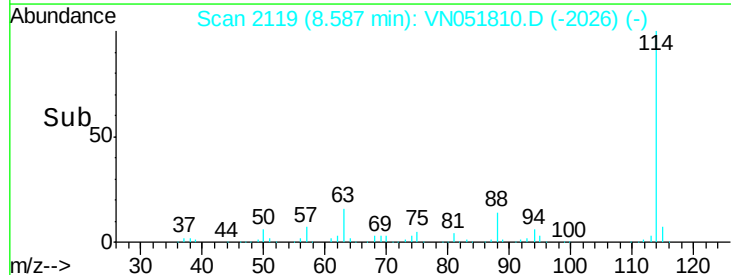
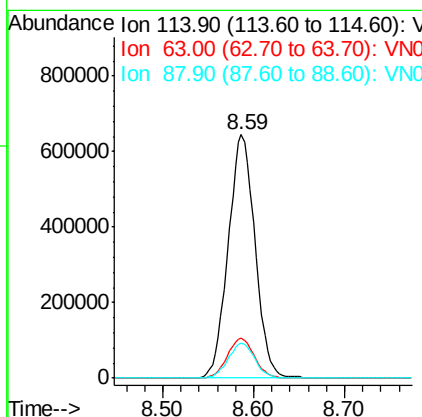
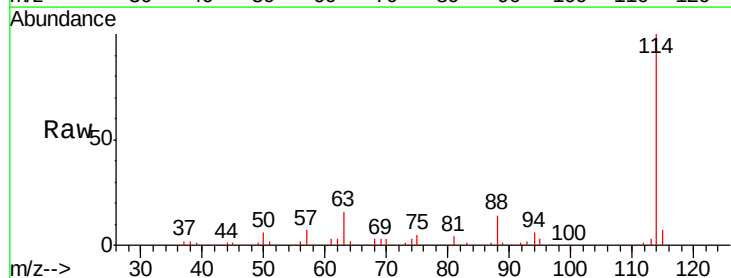
Manual Integrations
 APPROVED

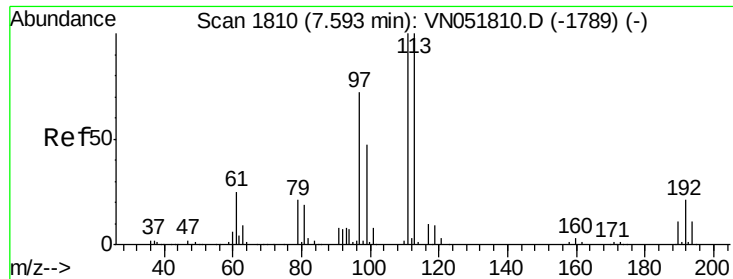
MMDadoda
 10/15/2018 3:00:17 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Tgt Ion: 114 Resp: 1319681
 Ion Ratio Lower Upper
 114 100
 63 16.3 0.0 38.6
 88 14.2 0.0 30.6





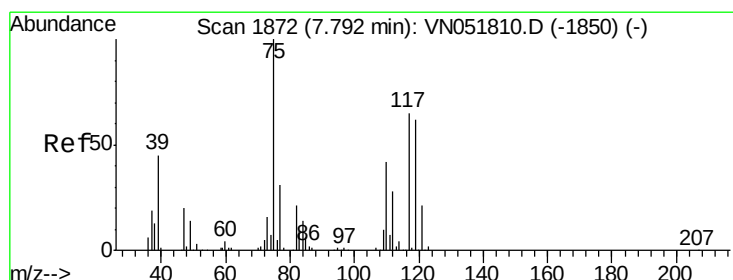
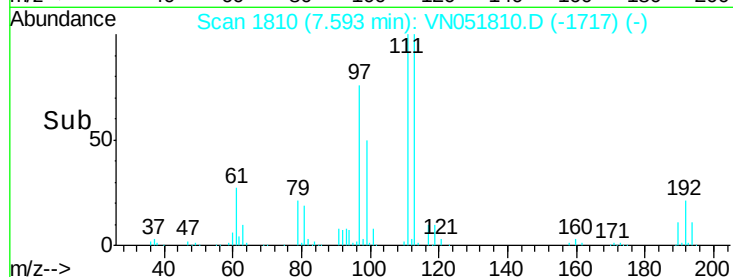
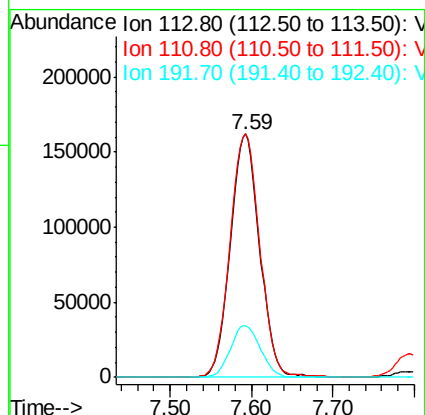
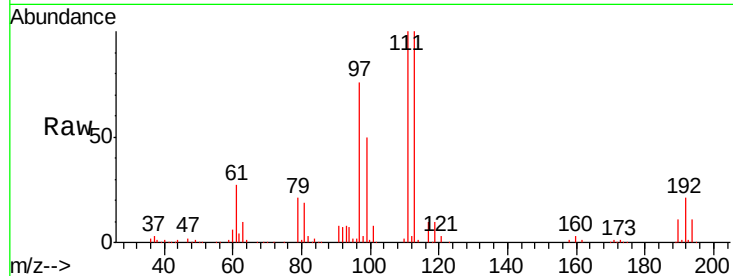
#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.6	123.8
192	21.7	18.0	27.0

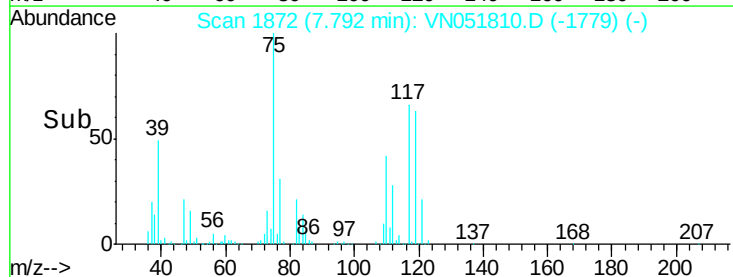
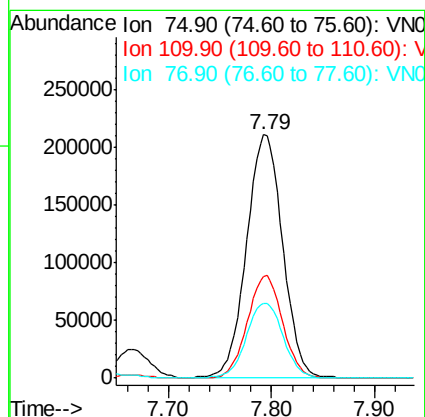
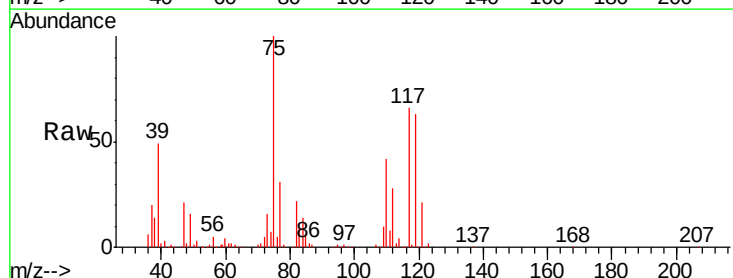
Manual Integrations
 APPROVED

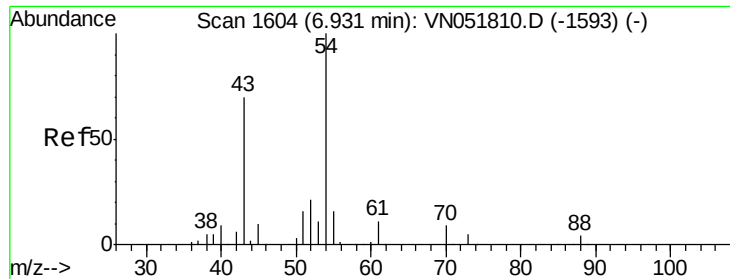
MMDadoda
 10/15/2018 3:00:17 PM



#36
 1,1-Dichloropropene
 Concen: 32.76 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	41.2	18.1	54.4
77	31.6	24.8	37.2





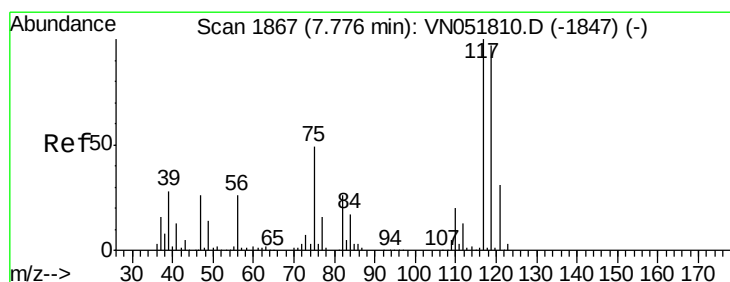
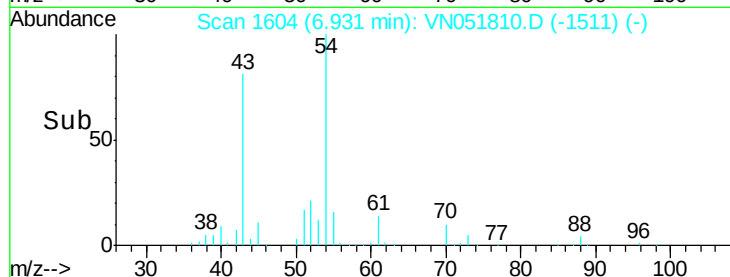
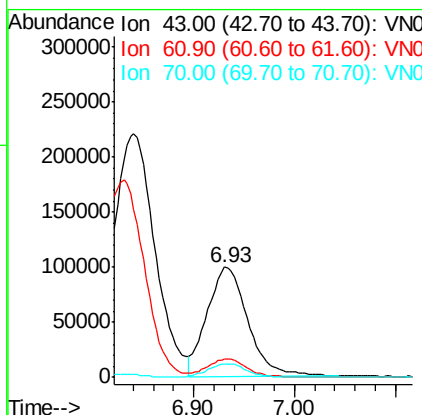
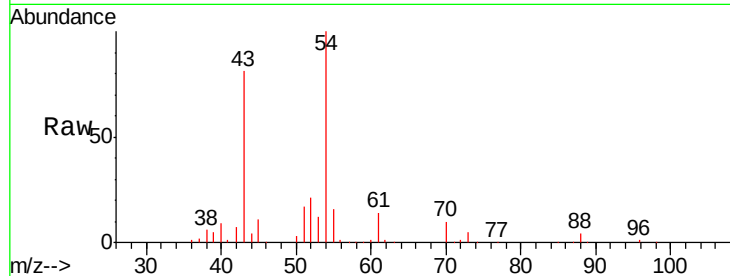
#37
Ethyl Acetate
Concen: 30.97 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.0	12.0	18.0
70	12.1	8.6	13.0

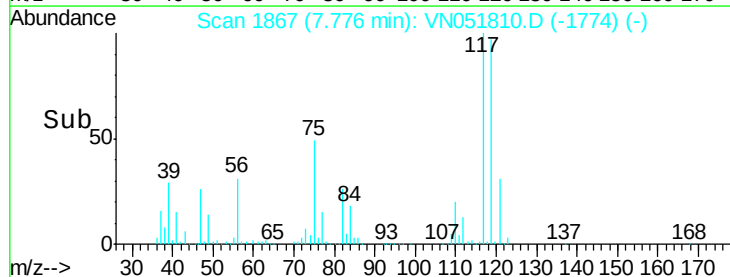
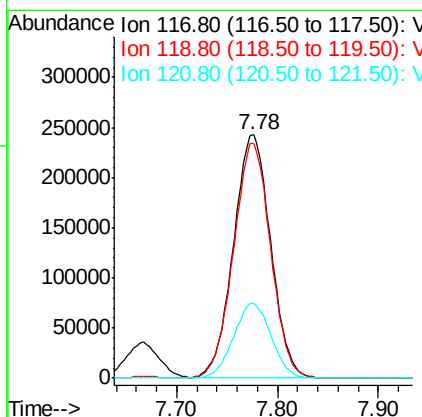
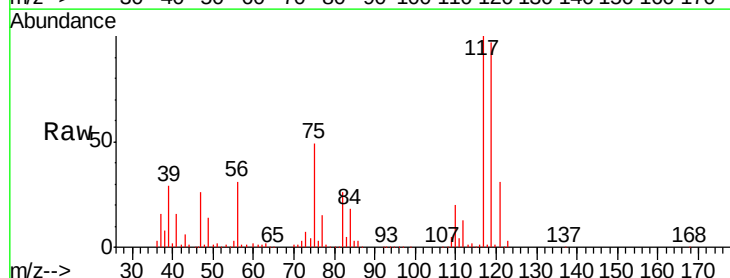
Manual Integrations
APPROVED

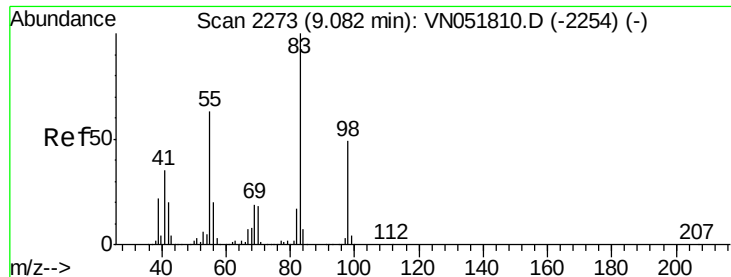
MMDadoda
10/15/2018 3:00:17 PM



#38
Carbon Tetrachloride
Concen: 39.32 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.3	114.5
121	30.7	24.6	36.8





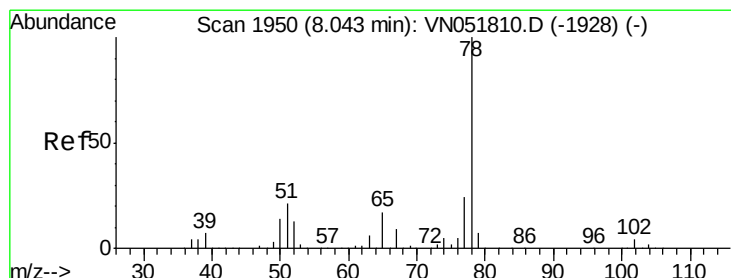
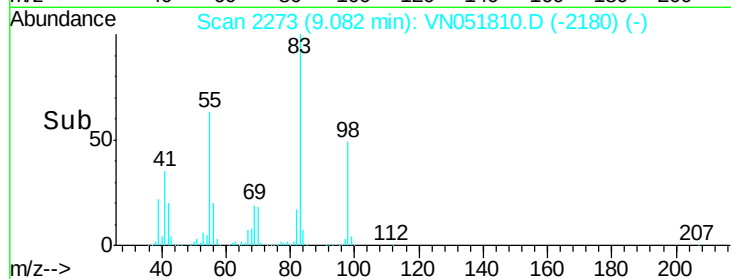
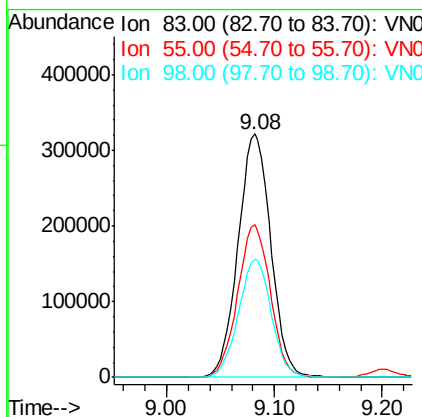
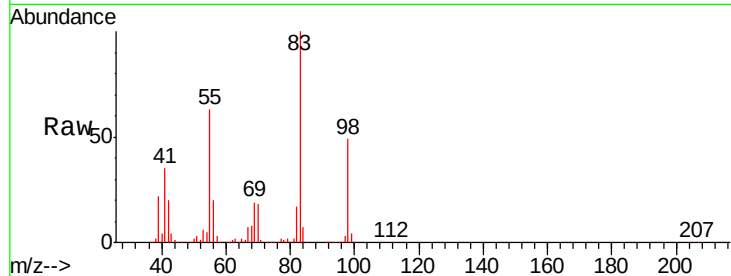
#39
Methylcyclohexane
Concen: 40.36 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	679895		
55	62.7		61.0	91.4
98	48.6		37.5	56.3

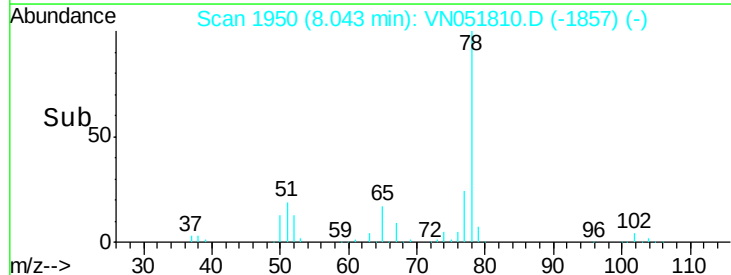
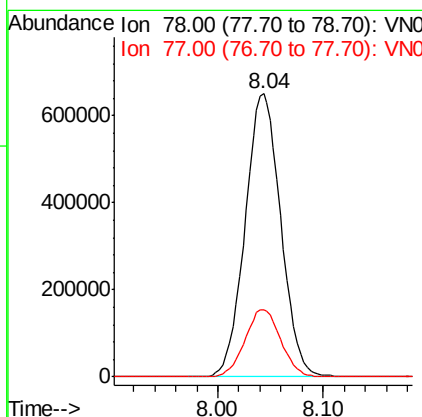
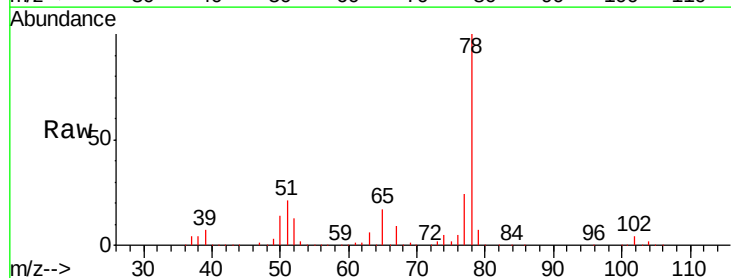
Manual Integrations
APPROVED

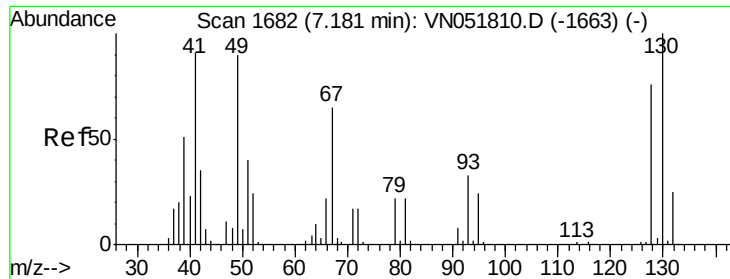
MMDadoda
10/15/2018 3:00:17 PM



#40
Benzene
Concen: 32.56 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1528980		
77	23.9		19.0	28.4





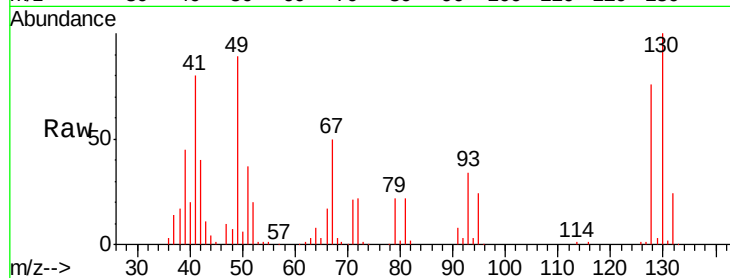
#41
Methacrylonitrile
Concen: 27.23 ug/l m
RT: 7.18 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.4	68.0#
67	0.0	70.6	106.0#
52	0.0	27.1	40.7#

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM

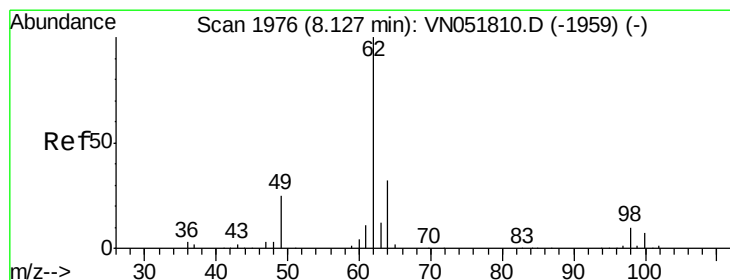
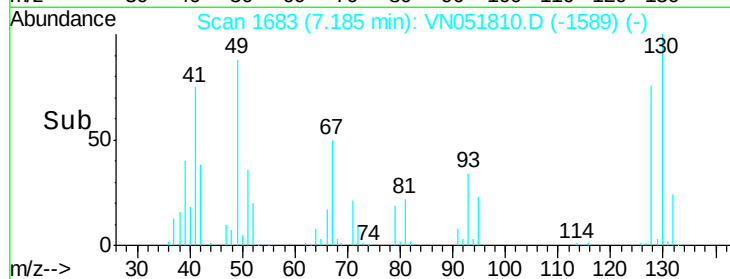
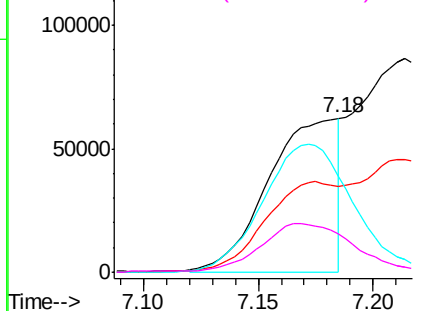


Abundance Ion 41.00 (40.70 to 41.70): VN051810.D (-1663) (-)

Ion 39.00 (38.70 to 39.70): VN051810.D (-1663) (-)

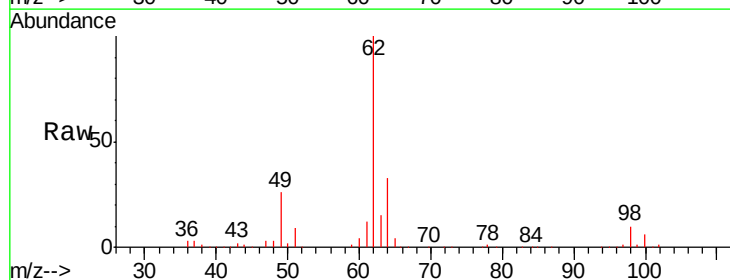
Ion 67.00 (66.70 to 67.70): VN051810.D (-1663) (-)

Ion 52.00 (51.70 to 52.70): VN051810.D (-1663) (-)



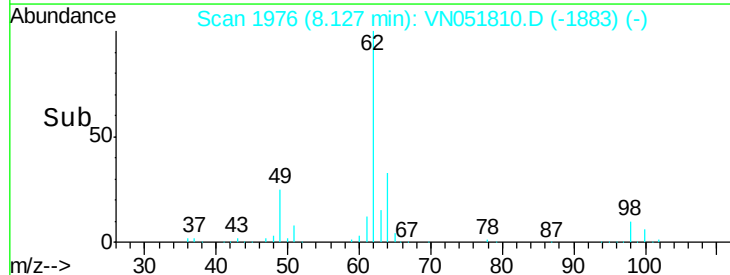
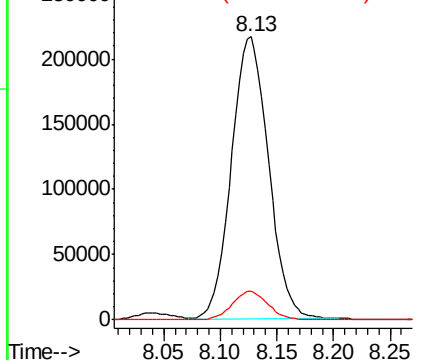
#42
1,2-Dichloroethane
Concen: 35.23 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

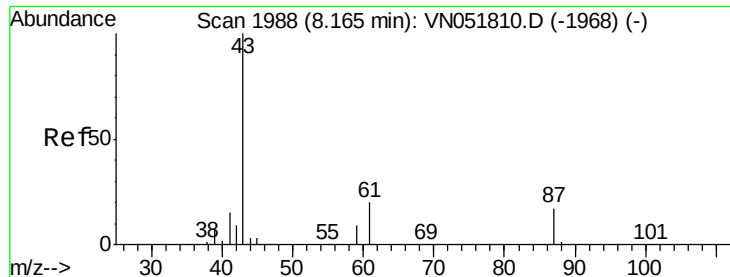
Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	19.6



Abundance Ion 61.90 (61.60 to 62.60): VN051810.D (-1959) (-)

Ion 97.90 (97.60 to 98.60): VN051810.D (-1959) (-)





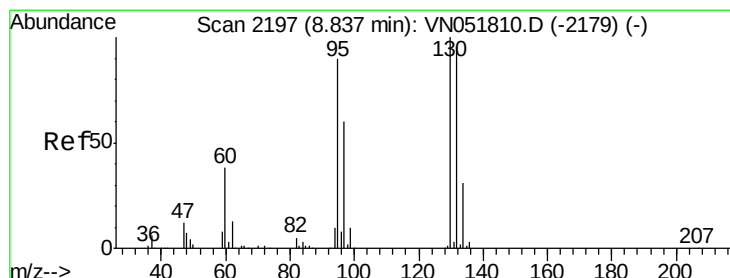
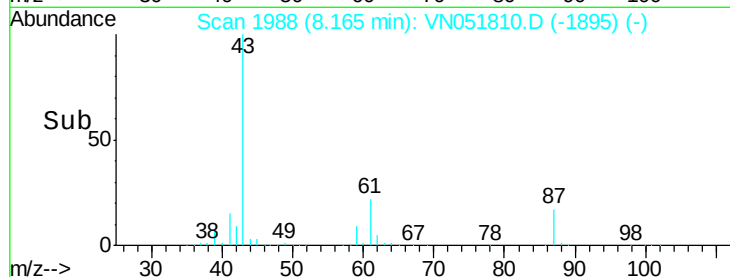
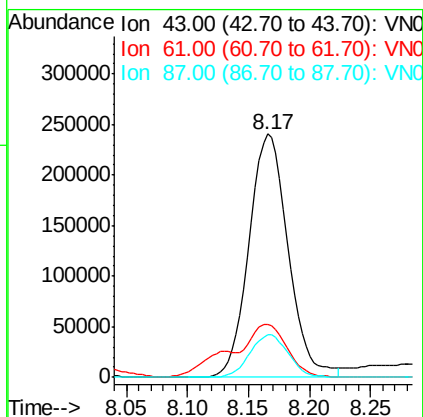
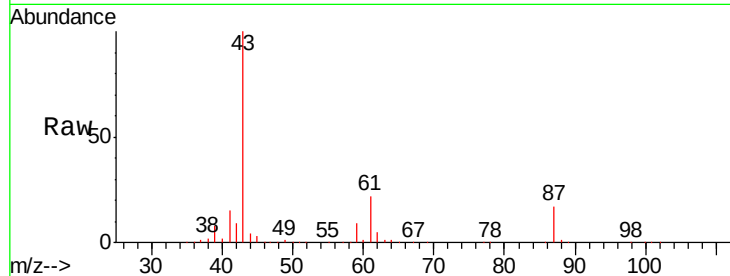
#43
Isopropyl Acetate
Concen: 34.71 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	20.9	17.5	26.3
87	17.2	11.3	16.9

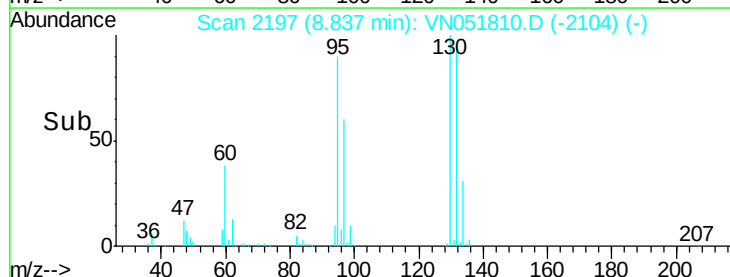
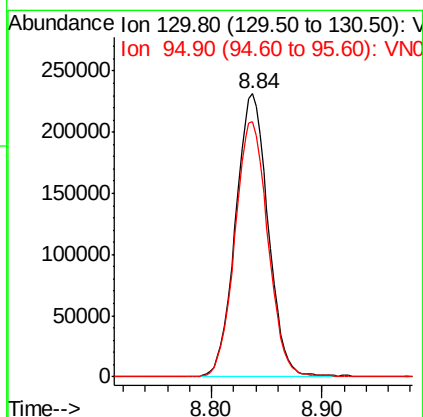
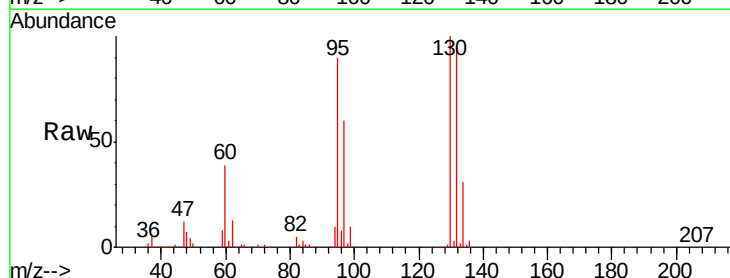
Manual Integrations
APPROVED

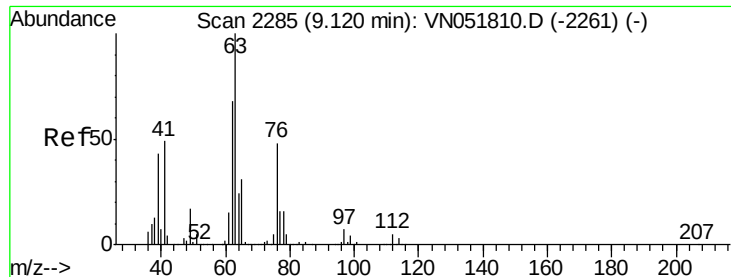
MMDadoda
10/15/2018 3:00:17 PM



#44
Trichloroethene
Concen: 38.15 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.0	0.0	193.0





#45

1,2-Dichloropropane

Concen: 28.89 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 356619

Ion Ratio Lower Upper

63 100

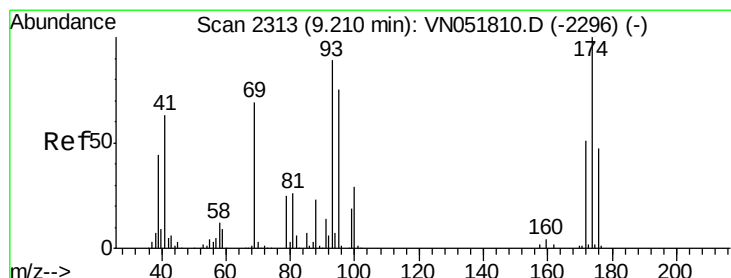
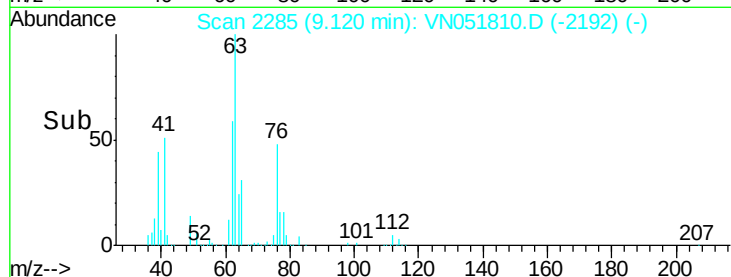
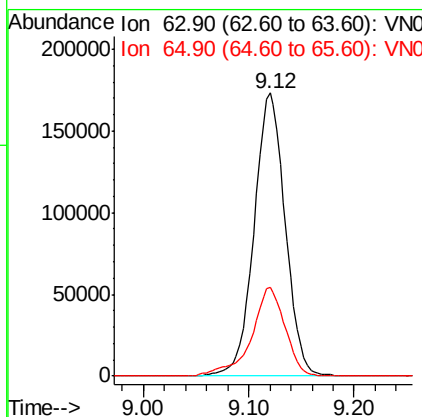
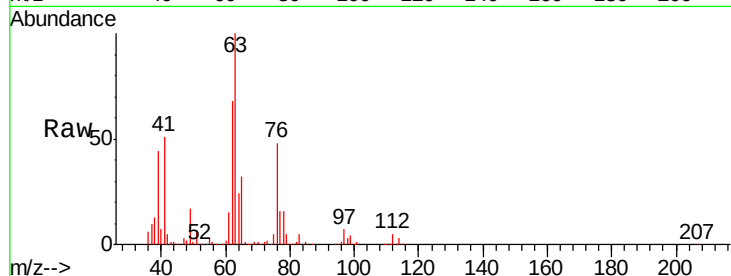
65 31.5 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:17 PM



#46

Dibromomethane

Concen: 38.23 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

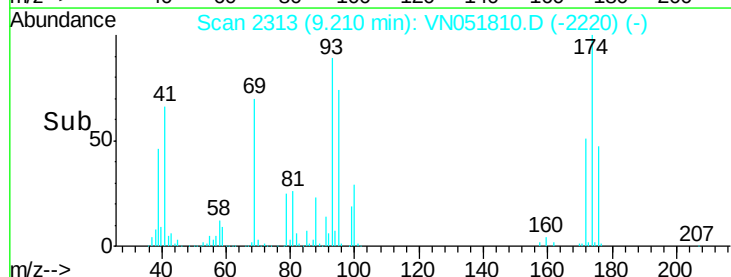
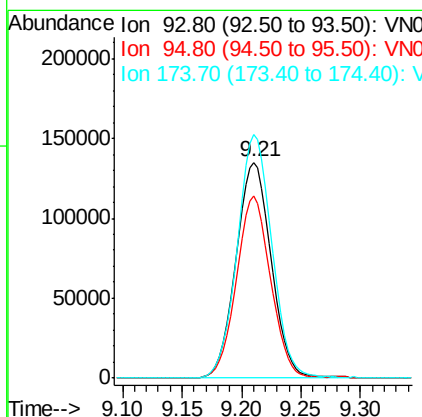
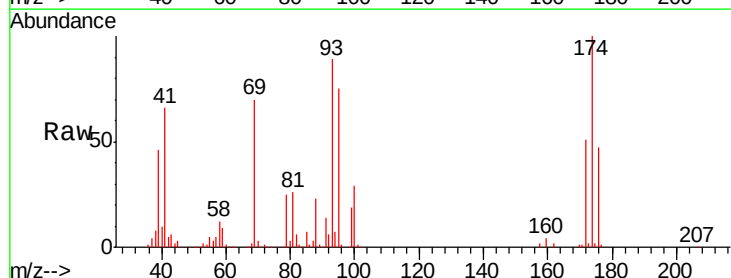
Tgt Ion: 93 Resp: 277219

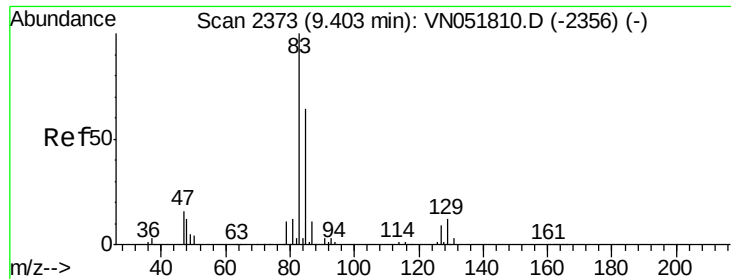
Ion Ratio Lower Upper

93 100

95 82.0 66.7 100.1

174 111.1 89.8 134.6





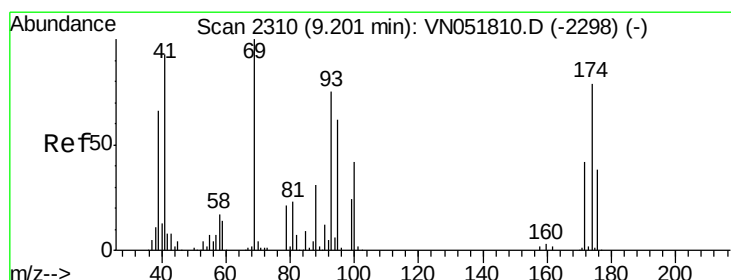
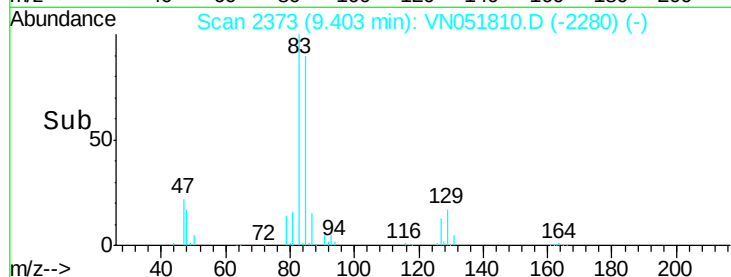
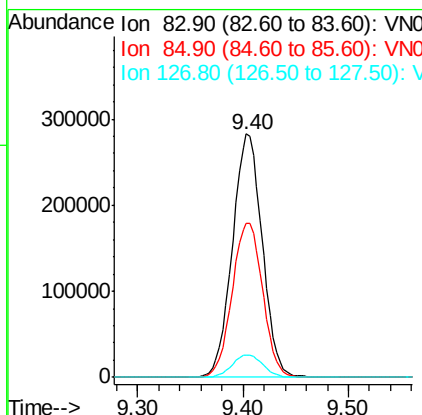
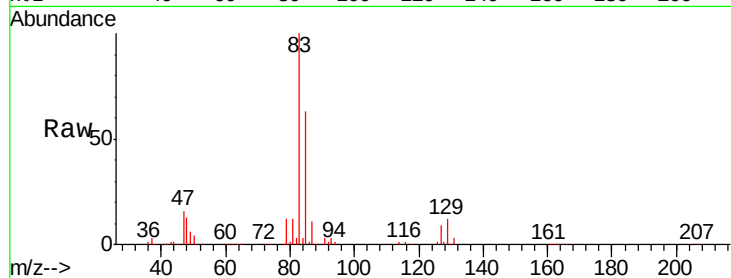
#47
Bromodichloromethane
Concen: 36.49 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.6	78.8
127	9.3	7.2	10.8

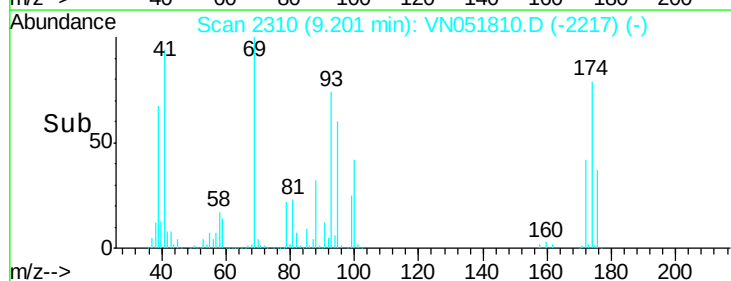
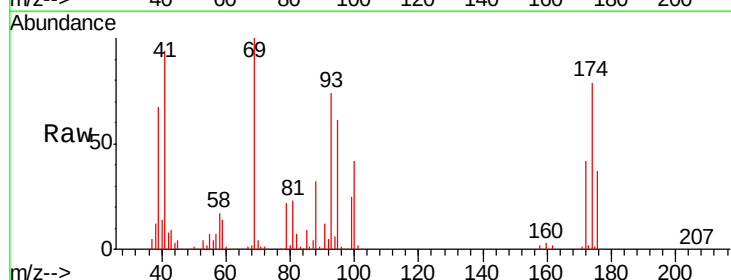
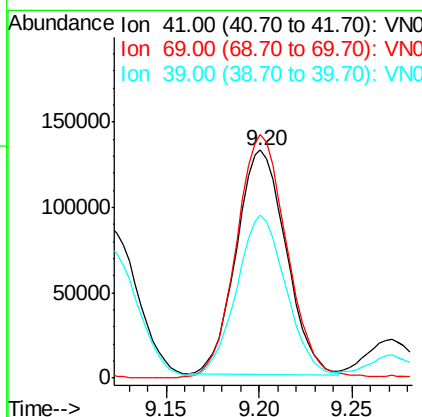
Manual Integrations
APPROVED

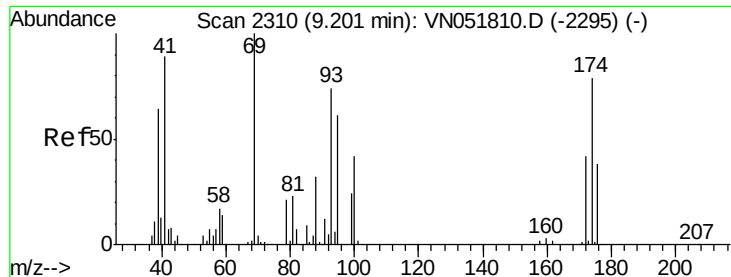
MMDadoda
10/15/2018 3:00:17 PM



#48
Methyl methacrylate
Concen: 31.32 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
41	100		
69	109.9	74.7	112.1
39	72.4	42.2	63.2#





#49

1,4-Dioxane

Concen: 811.97 ug/l m

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

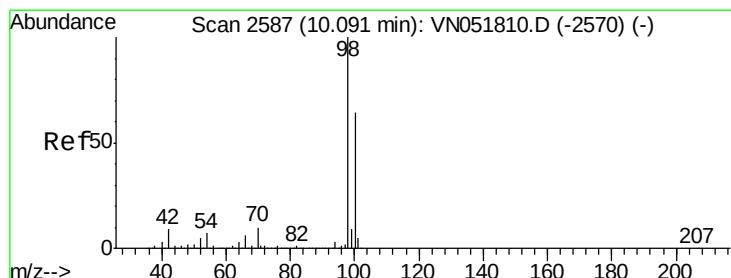
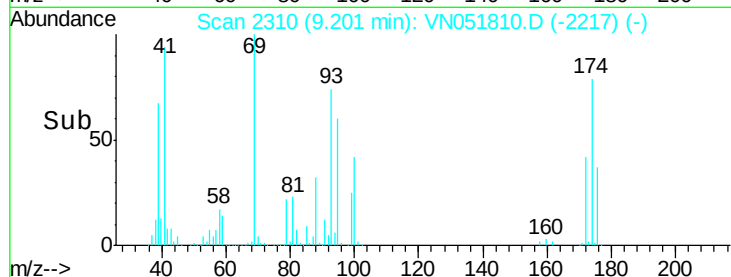
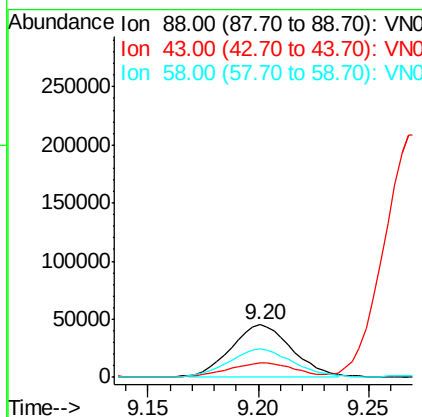
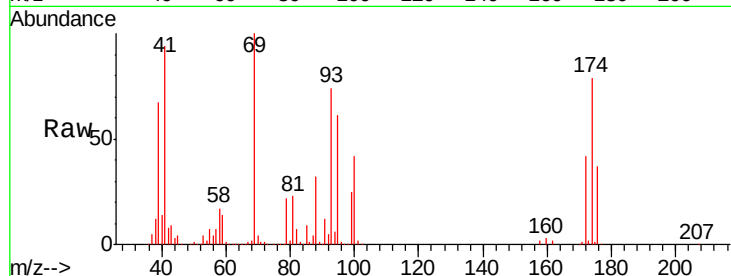
ClientSampleId :

VSTDICCC050

Tgt Ion:	88	Resp:	86765
Ion	Ratio	Lower	Upper
88	100		
43	27.6	25.9	38.9
58	57.6	55.0	82.4

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



#50

Toluene-d8

Concen: 811.97 ug/l

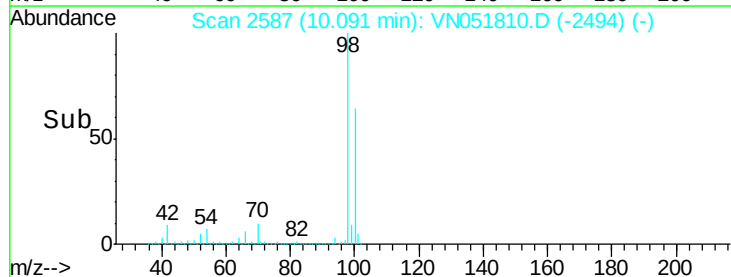
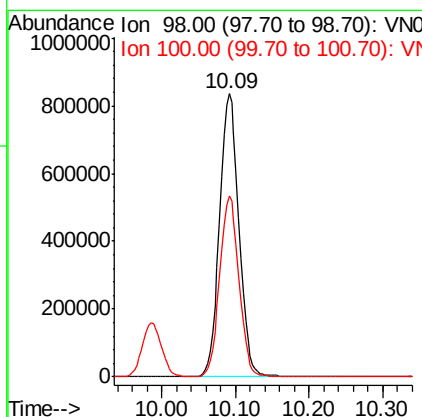
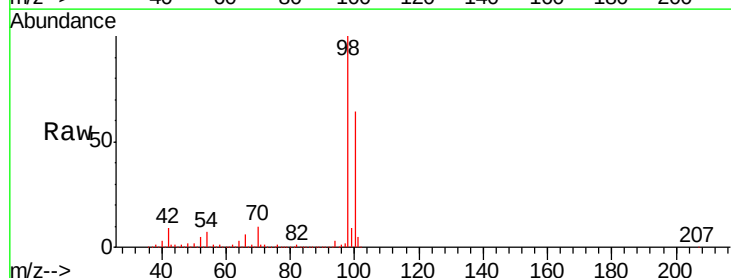
RT: 10.09 min Scan# 2587

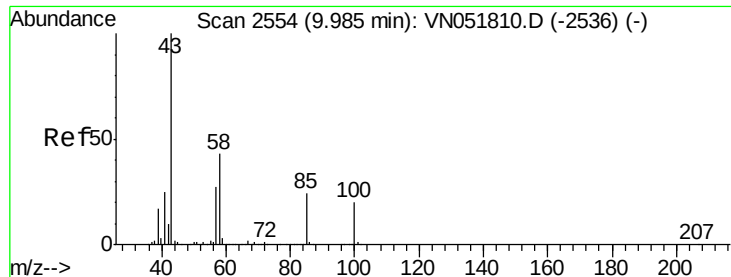
Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Tgt Ion:	98	Resp:	1519658
Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 156.76 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 1438838

Ion Ratio Lower Upper

43 100

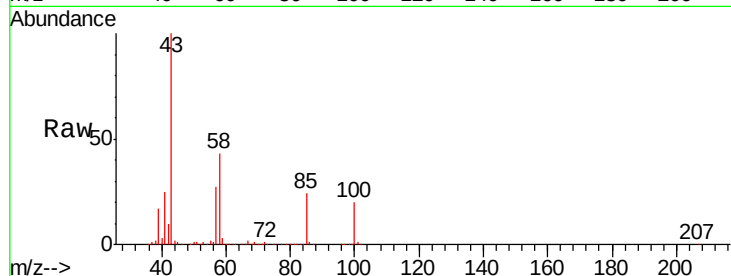
58 42.7 32.4 48.6

Manual Integrations

APPROVED

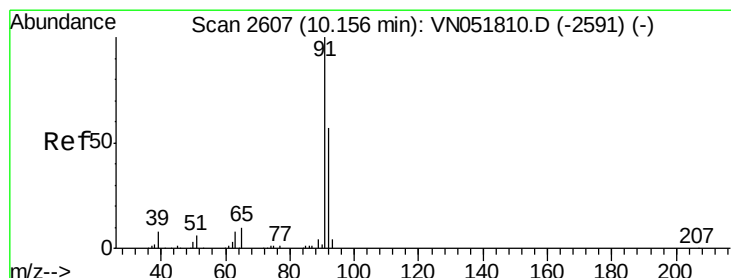
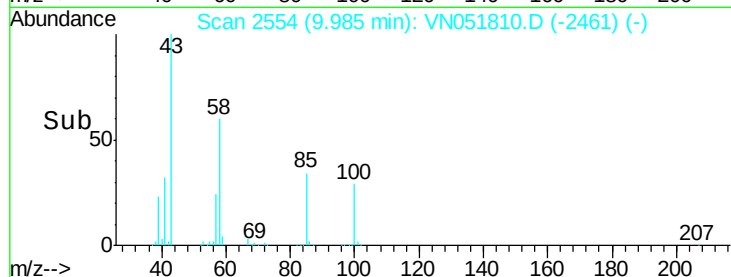
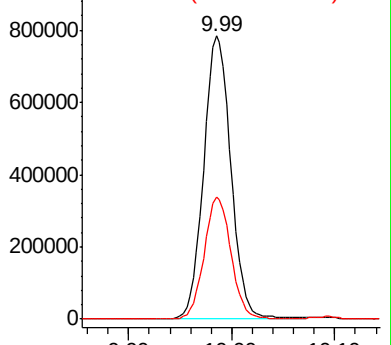
MMDadoda

10/15/2018 3:00:17 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 37.84 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051810.D

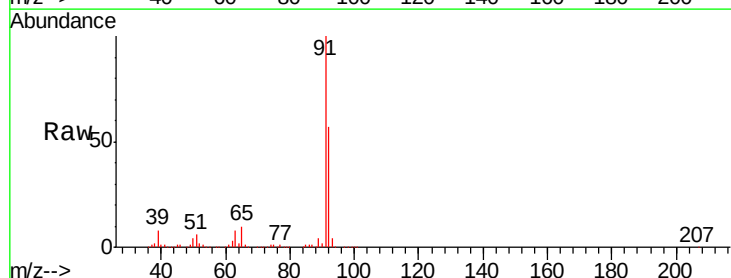
Acq: 11 Oct 2018 11:57

Tgt Ion: 92 Resp: 1052591

Ion Ratio Lower Upper

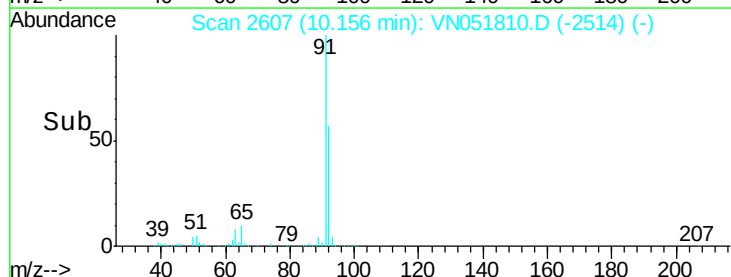
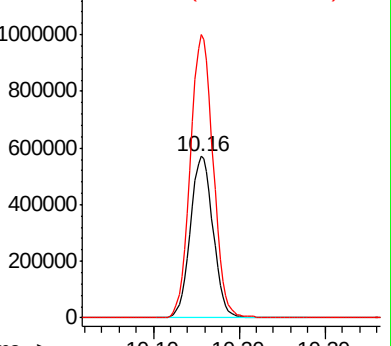
92 100

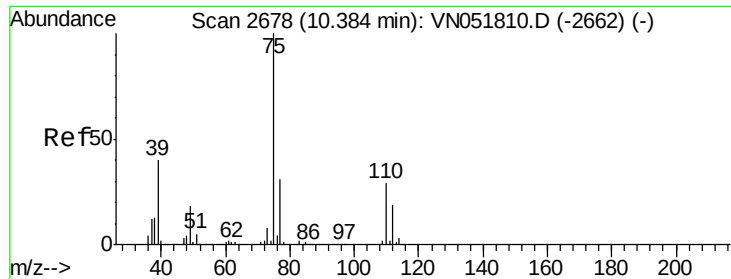
91 175.3 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





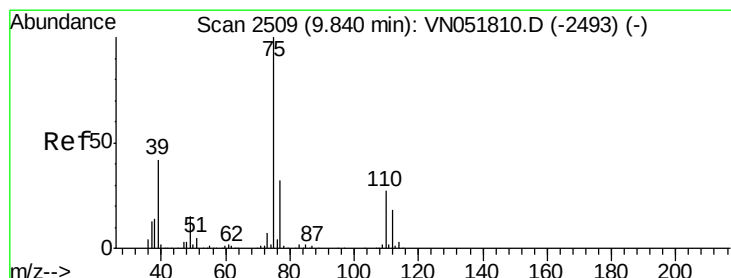
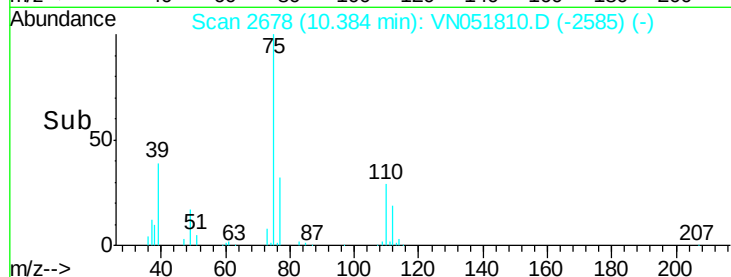
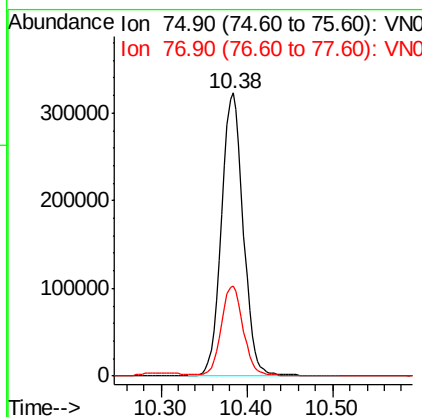
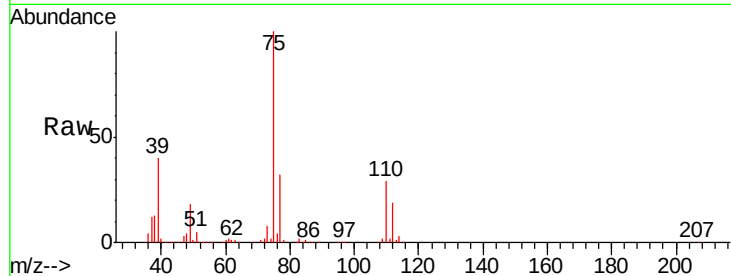
#53
 t-1,3-Dichloropropene
 Concen: 37.72 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion: 75 Resp: 570240
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.7 38.5

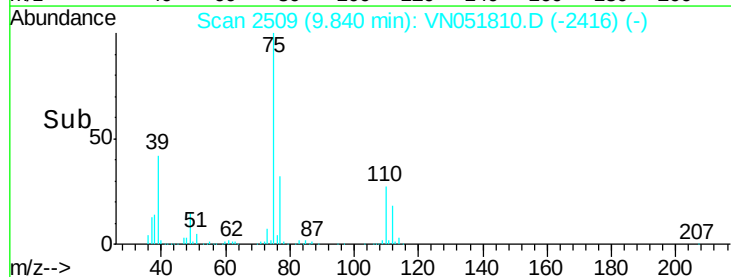
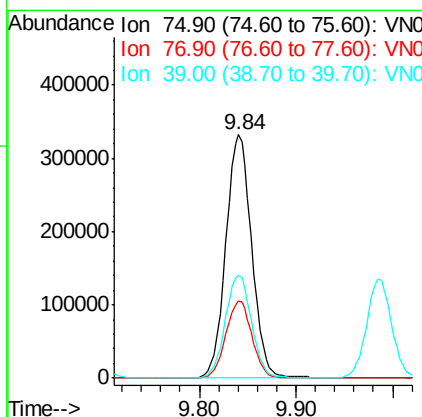
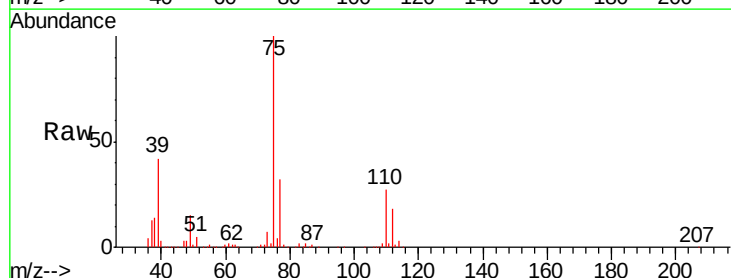
Manual Integrations
 APPROVED

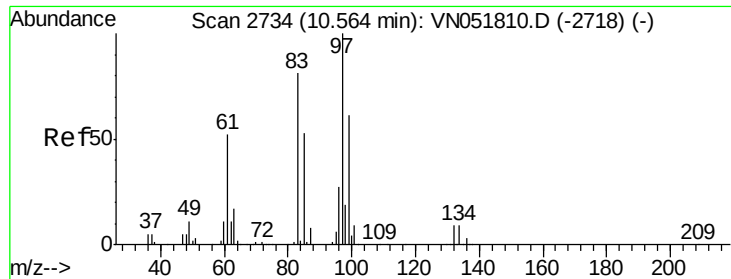
MMDadoda
 10/15/2018 3:00:17 PM



#54
 cis-1,3-Dichloropropene
 Concen: 35.64 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Tgt Ion: 75 Resp: 616978
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.4 38.2
 39 42.4 33.0 49.4





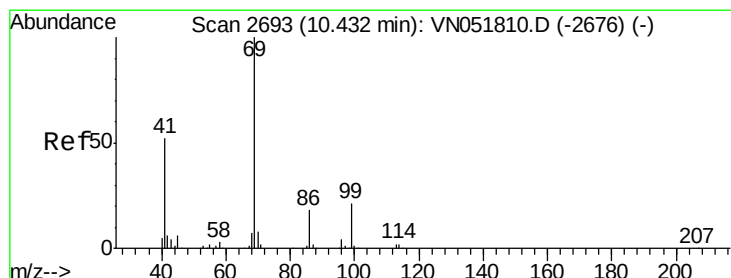
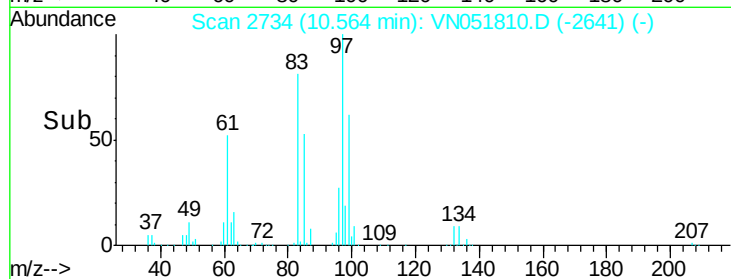
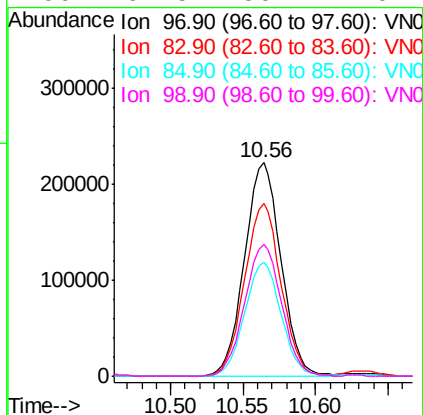
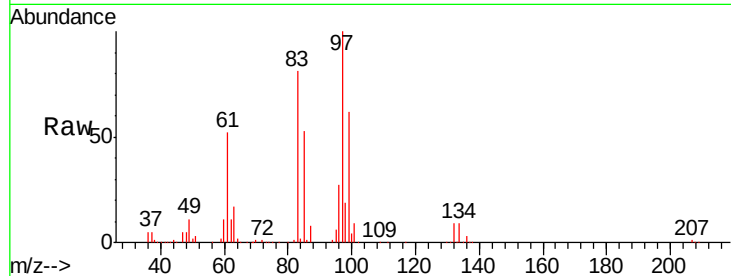
#55
 1,1,2-Trichloroethane
 Concen: 37.91 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	391370		
83	80.7	69.7	104.5	
85	53.1	44.5	66.7	
99	61.5	50.7	76.1	

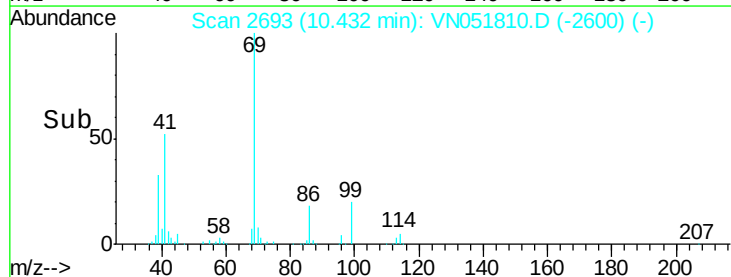
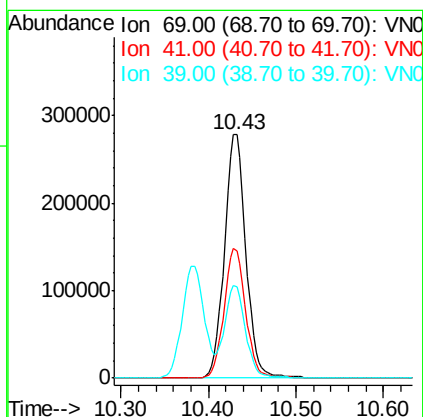
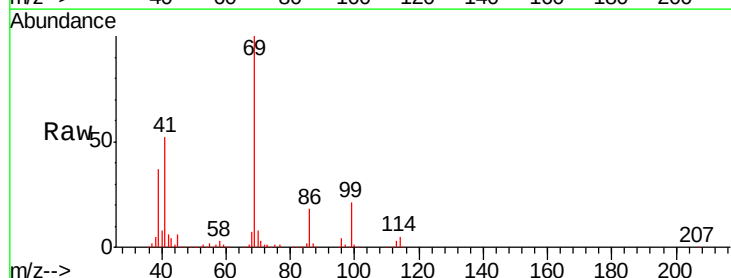
Manual Integrations
 APPROVED

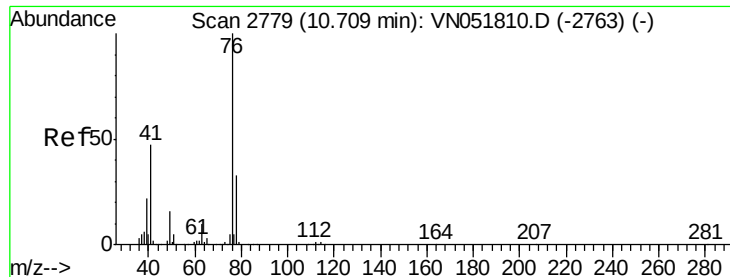
MMDadoda
 10/15/2018 3:00:17 PM



#56
 Ethyl methacrylate
 Concen: 40.37 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	472767		
41	53.0	48.3	72.5	
39	37.6	24.0	36.0	





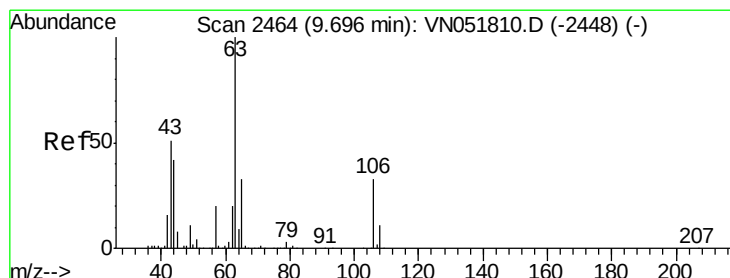
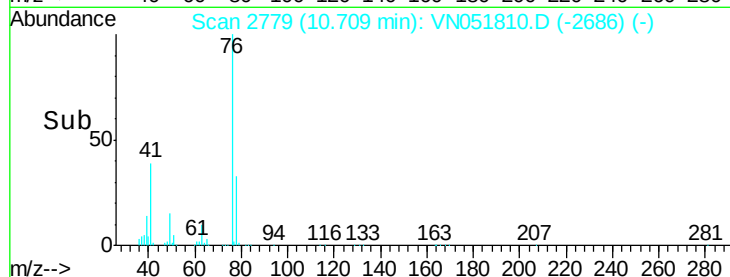
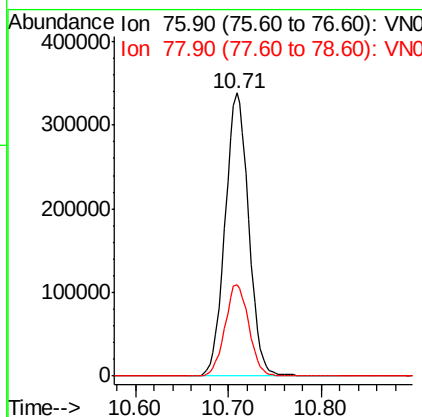
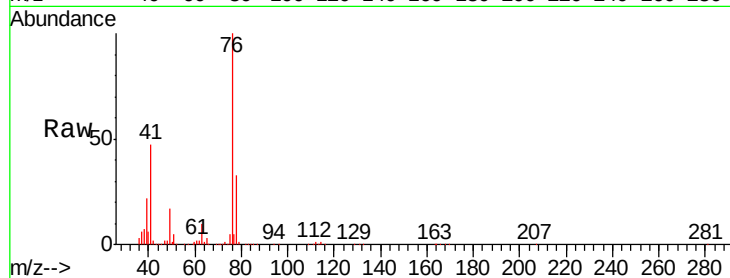
#57
 1,3-Dichloropropane
 Concen: 34.94 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.5	38.3

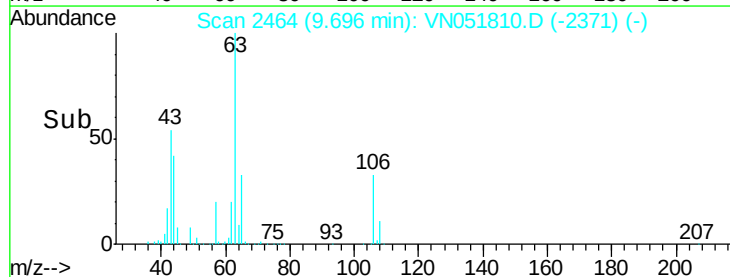
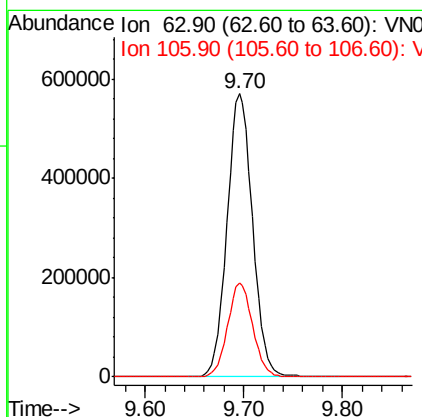
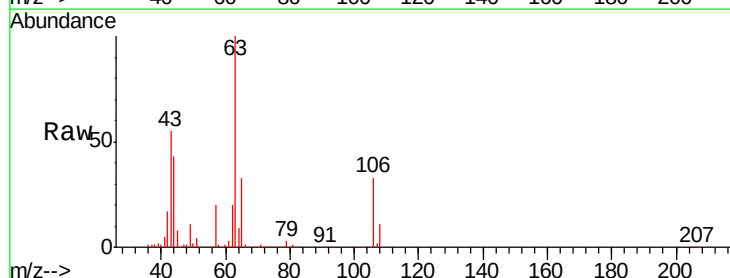
Manual Integrations
 APPROVED

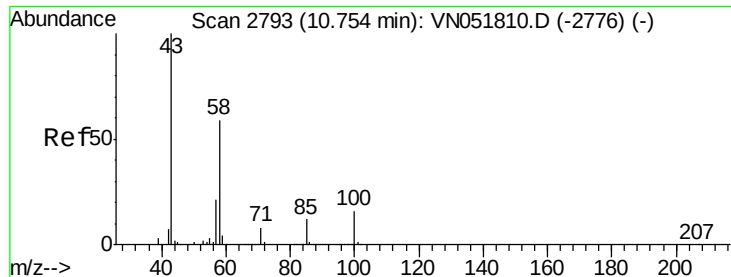
MMDadoda
 10/15/2018 3:00:17 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 206.40 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
63	100		
106	32.8	21.9	32.9





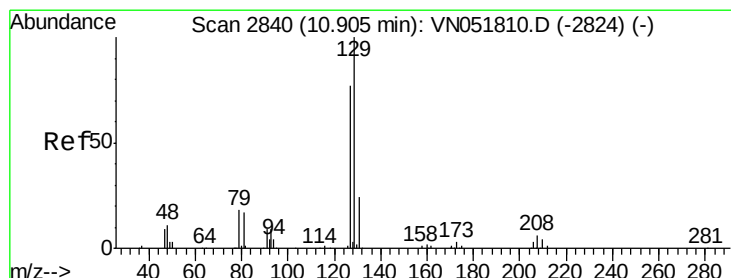
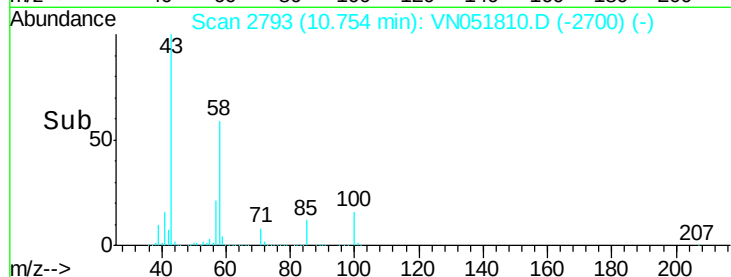
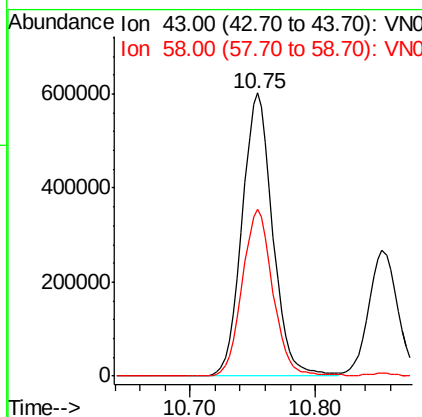
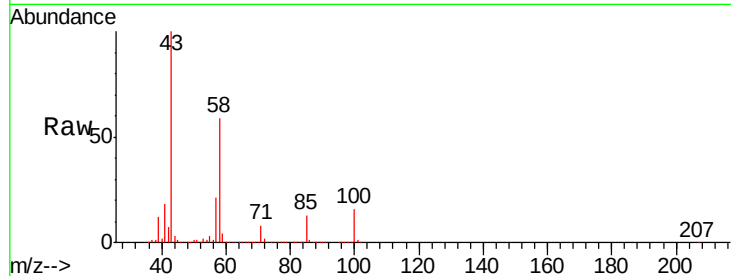
#59
2-Hexanone
Concen: 166.87 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1019598
Ion Ratio Lower Upper
43 100
58 59.2 28.3 85.0

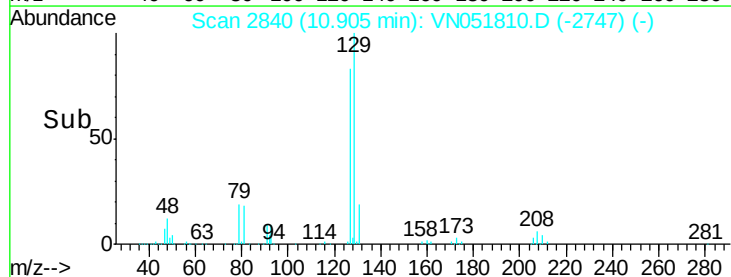
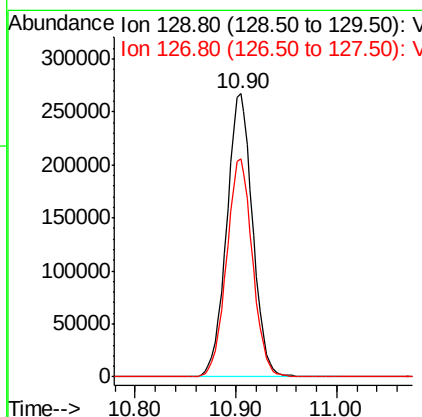
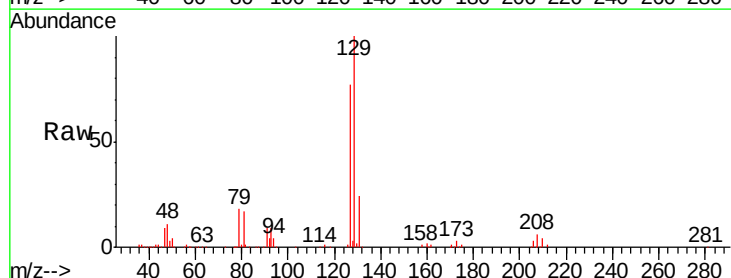
Manual Integrations
APPROVED

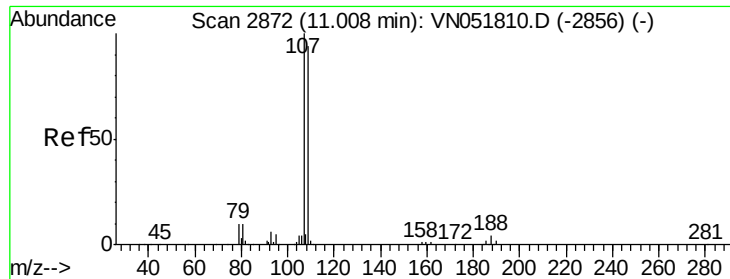
MMDadoda
10/15/2018 3:00:17 PM



#60
Dibromochloromethane
Concen: 41.42 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion: 129 Resp: 478846
Ion Ratio Lower Upper
129 100
127 77.0 38.3 114.9





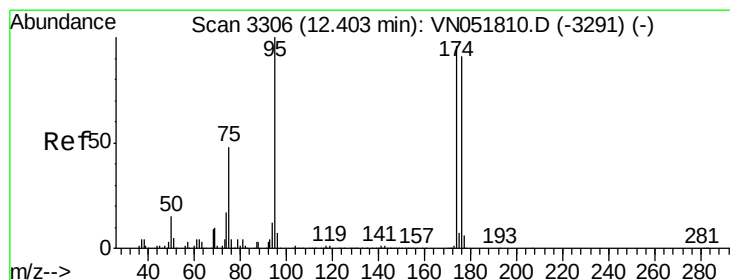
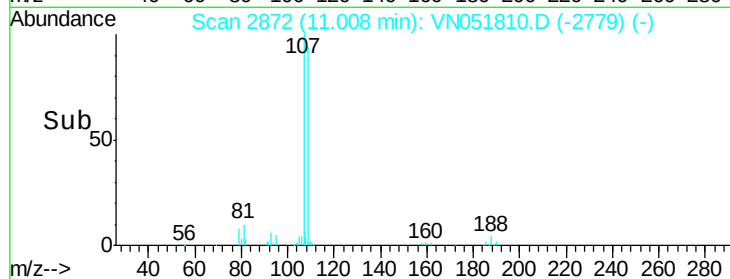
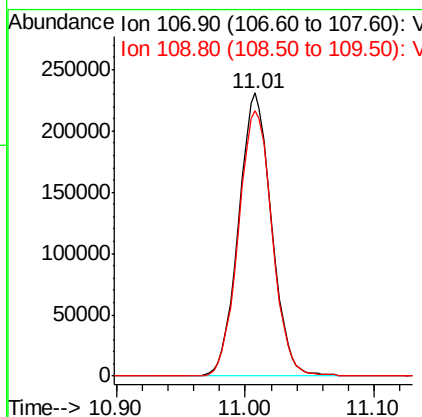
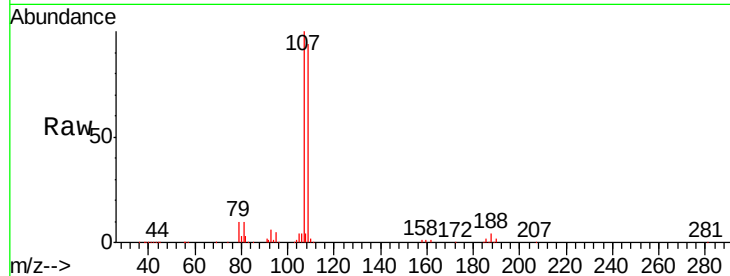
#61
1,2-Dibromoethane
Concen: 41.13 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.1	75.4	113.2

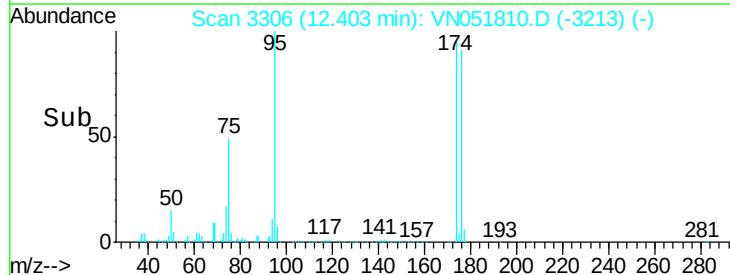
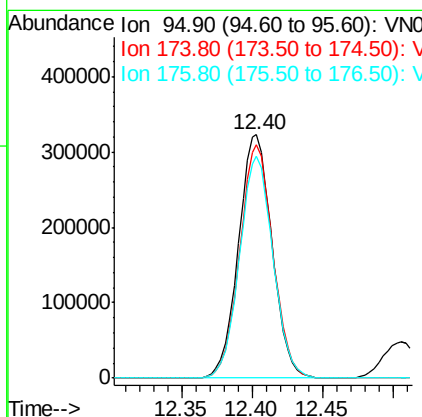
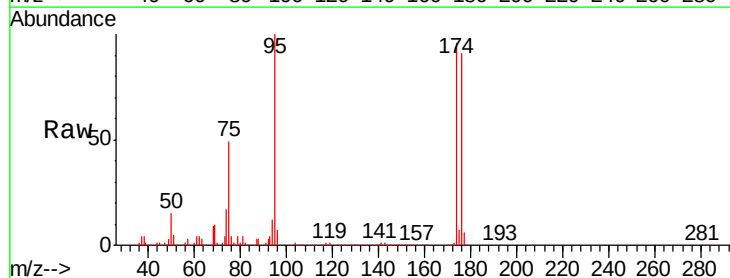
Manual Integrations
APPROVED

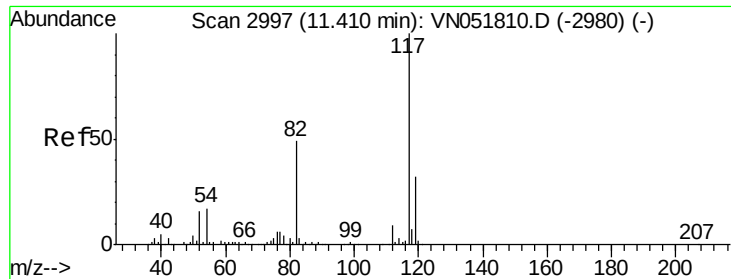
MMDadoda
10/15/2018 3:00:17 PM



#62
4-Bromofluorobenzene
Concen: 41.13 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.9	0.0	183.0
176	91.0	0.0	178.8





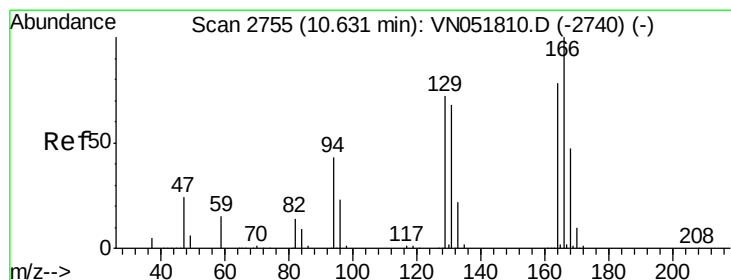
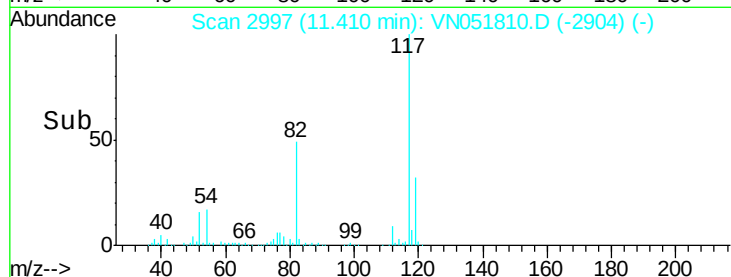
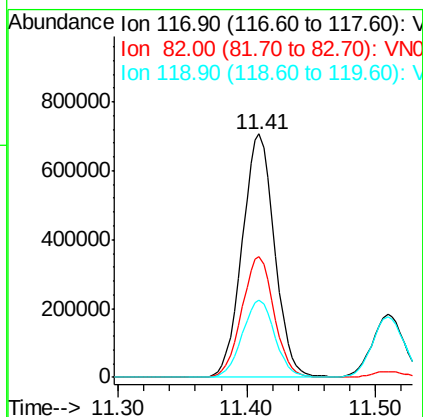
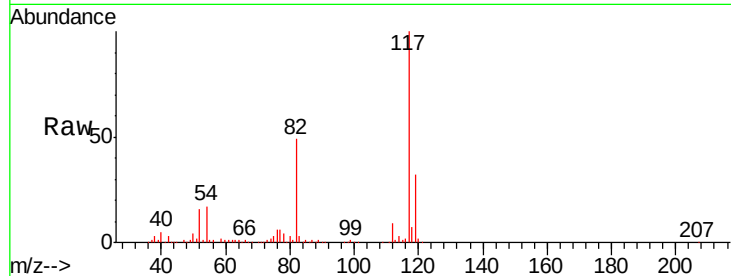
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 1233623
Ion Ratio Lower Upper
117 100
82 49.3 42.6 64.0
119 31.8 25.8 38.6

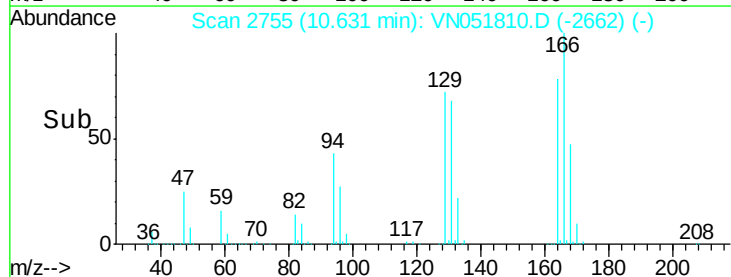
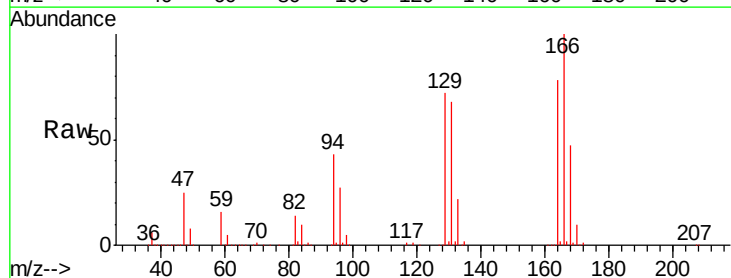
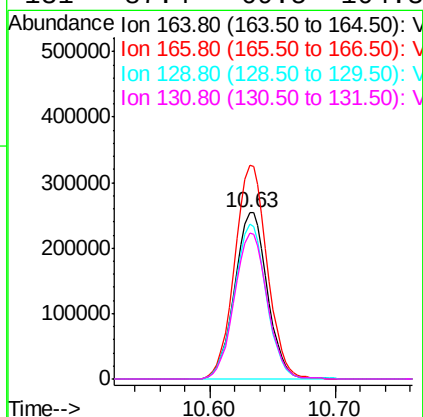
Manual Integrations
APPROVED

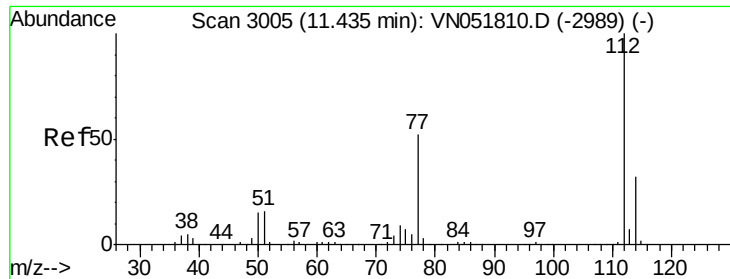
MMDadoda
10/15/2018 3:00:17 PM



#64
Tetrachloroethene
Concen: 39.24 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion:164 Resp: 459740
Ion Ratio Lower Upper
164 100
166 128.4 103.5 155.3
129 93.1 72.7 109.1
131 87.4 69.5 104.3





#65

Chlorobenzene

Concen: 38.18 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 1231132

Ion Ratio Lower Upper

112 100

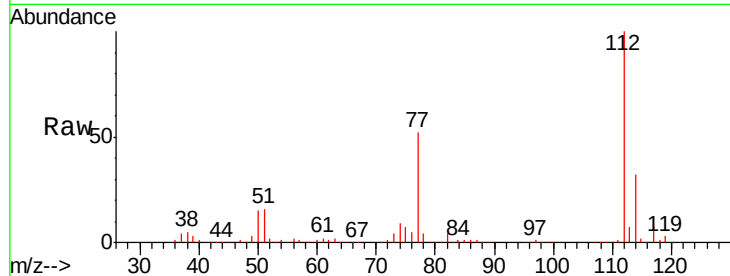
114 32.2 25.6 38.4

Manual Integrations

APPROVED

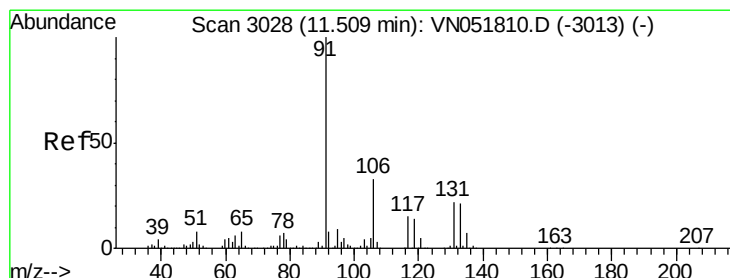
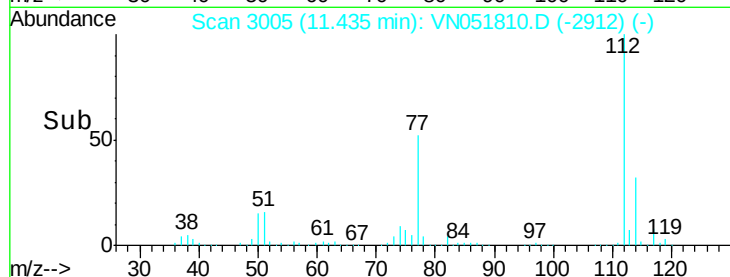
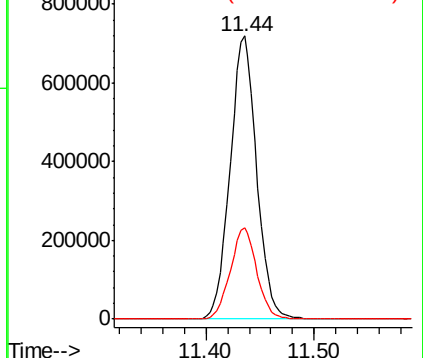
MMDadoda

10/15/2018 3:00:17 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 39.73 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

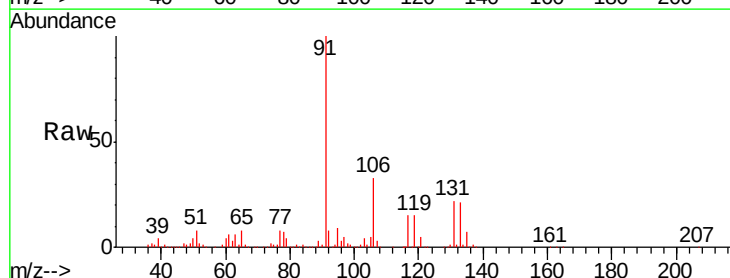
Tgt Ion:131 Resp: 468693

Ion Ratio Lower Upper

131 100

133 95.0 47.4 142.3

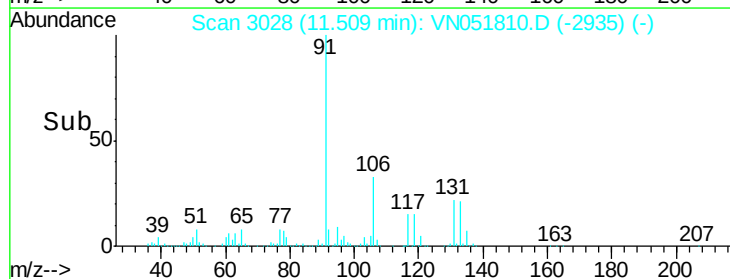
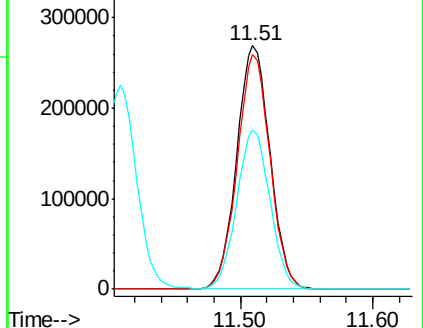
119 65.3 32.8 98.4

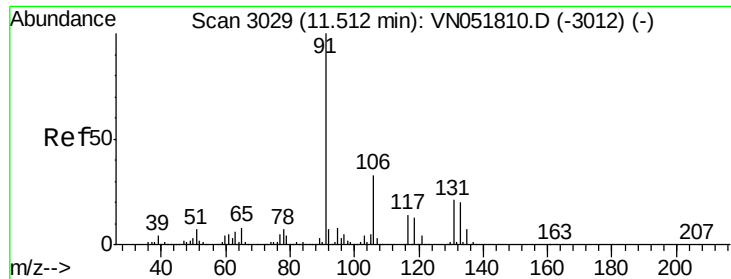


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





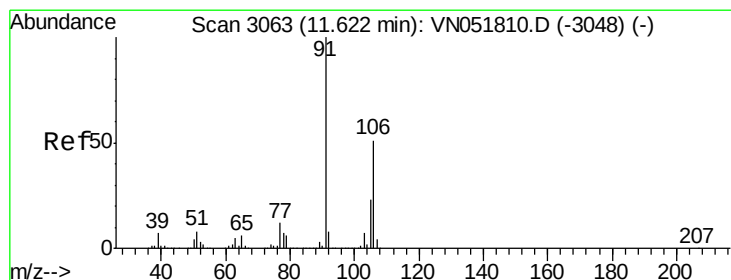
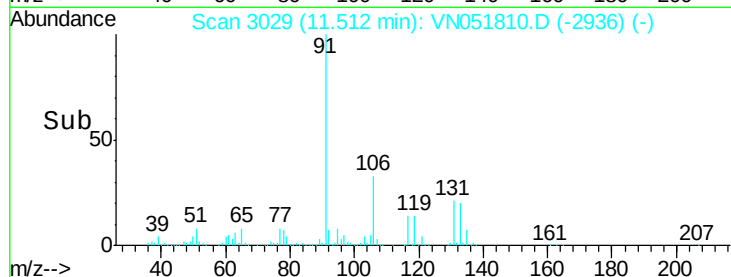
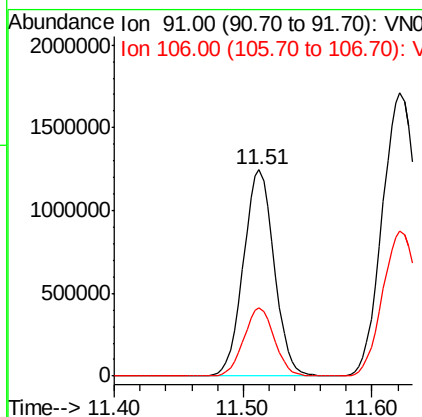
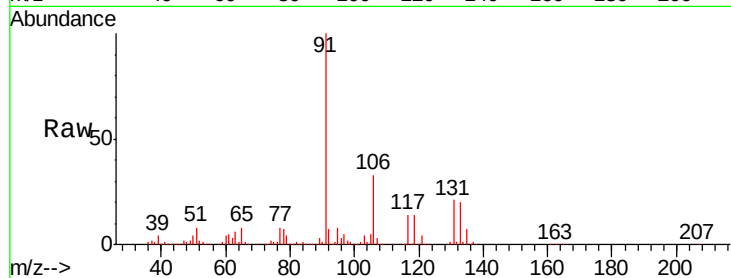
#67
Ethyl Benzene
Concen: 39.53 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 2072280
Ion Ratio Lower Upper
91 100
106 33.1 25.0 37.4

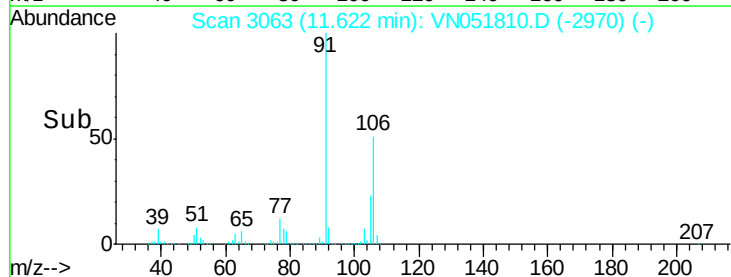
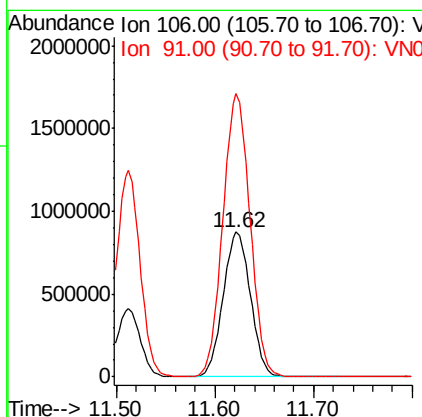
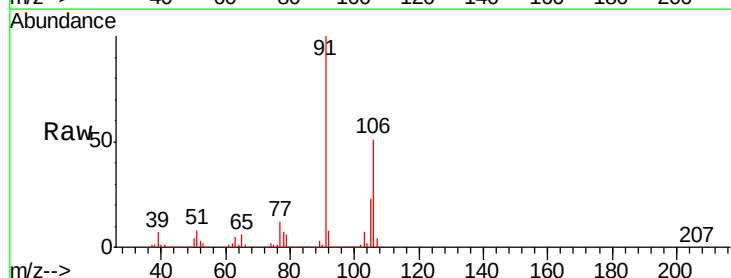
Manual Integrations
APPROVED

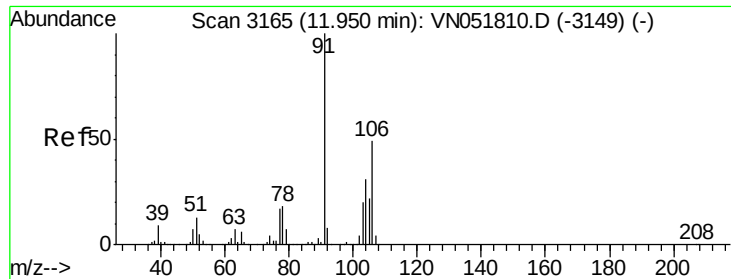
MMDadoda
10/15/2018 3:00:17 PM



#68
m/p-Xylenes
Concen: 85.32 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion: 106 Resp: 1697576
Ion Ratio Lower Upper
106 100
91 194.4 161.0 241.6





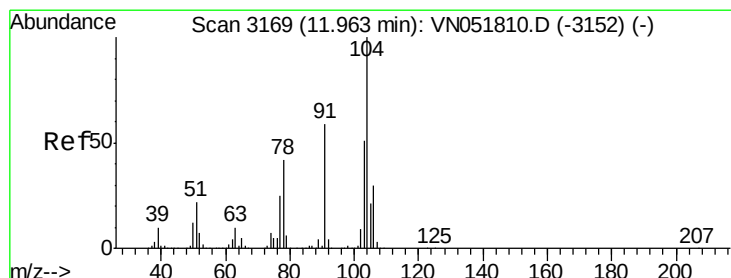
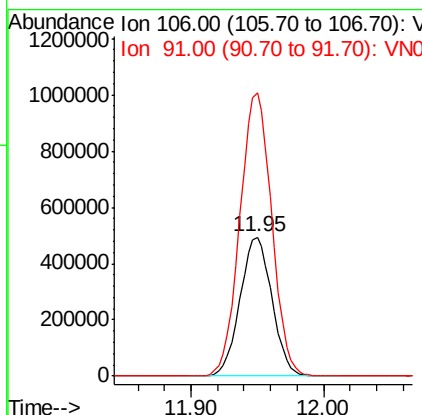
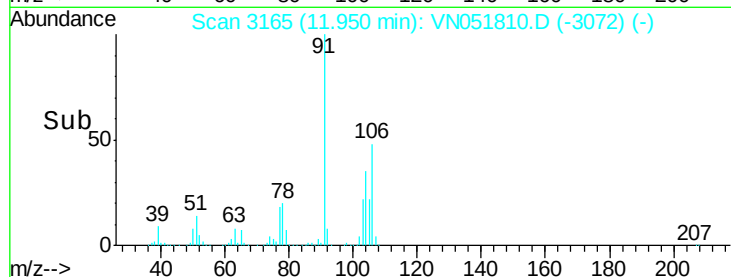
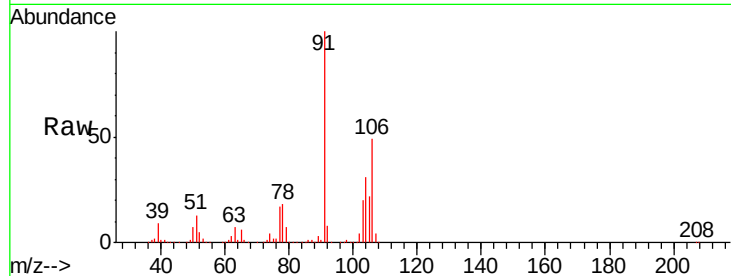
#69
o-Xylene
Concen: 43.03 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 823030
Ion Ratio Lower Upper
106 100
91 204.1 106.5 319.5

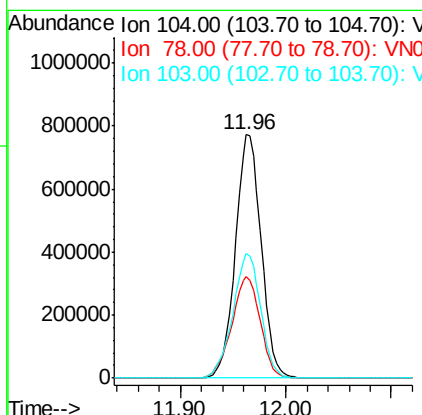
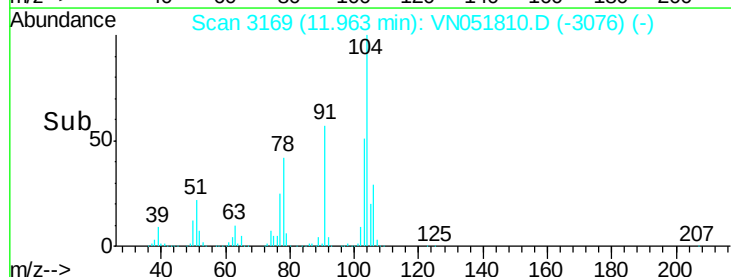
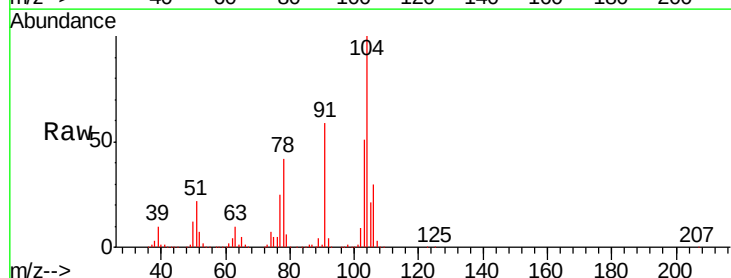
Manual Integrations
APPROVED

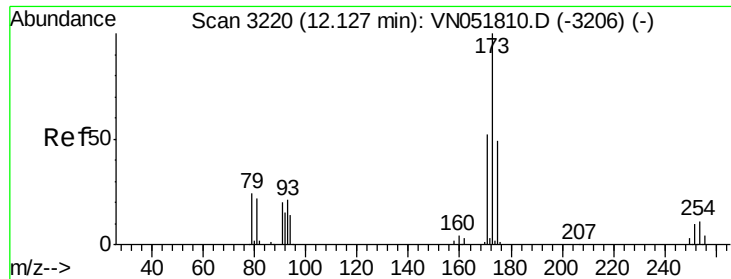
MMDadoda
10/15/2018 3:00:17 PM



#70
Styrene
Concen: 43.57 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion:104 Resp: 1302935
Ion Ratio Lower Upper
104 100
78 46.2 38.2 57.4
103 55.4 44.4 66.6





#71

Bromoform

Concen: 40.39 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:173 Resp: 327668
Ion Ratio Lower Upper

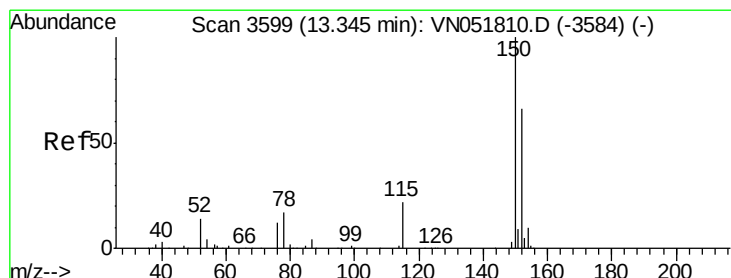
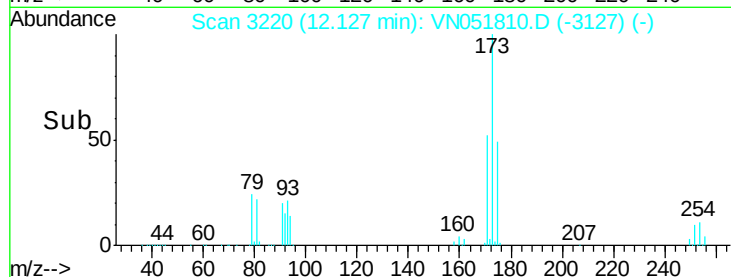
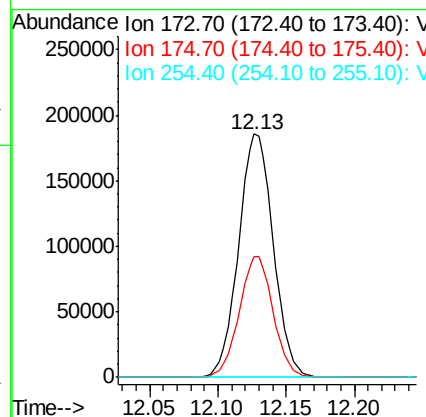
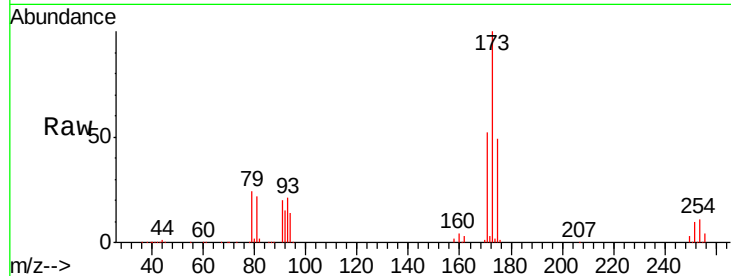
173 100

175 48.4 24.4 73.4

254 0.1 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051810.D

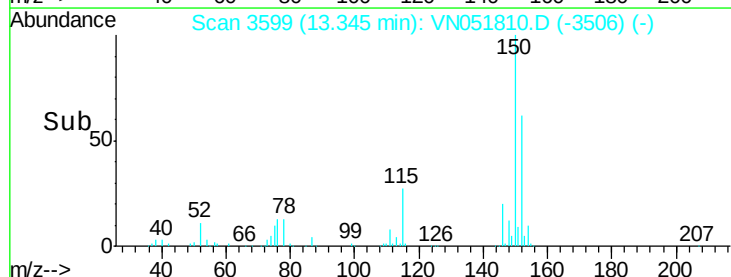
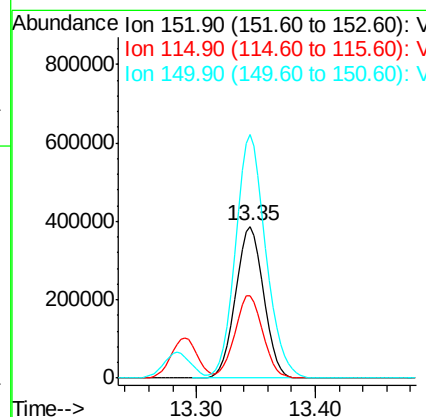
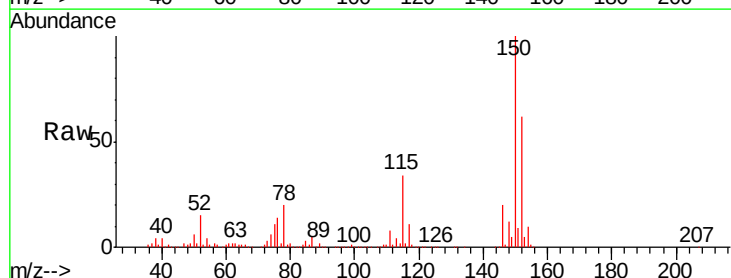
Acq: 11 Oct 2018 11:57

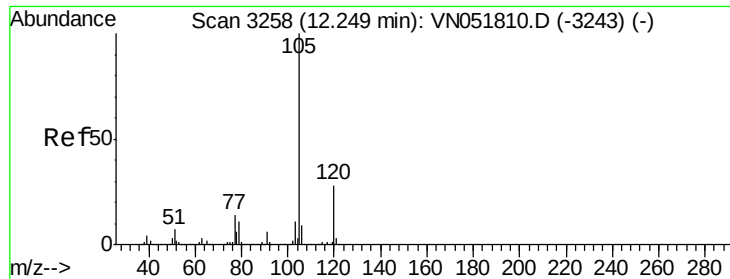
Tgt Ion:152 Resp: 631823
Ion Ratio Lower Upper

152 100

115 54.1 27.8 83.4

150 172.3 0.0 351.4





#73

Isopropylbenzene

Concen: 42.26 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 105 Resp: 2210757

Ion Ratio Lower Upper

105 100

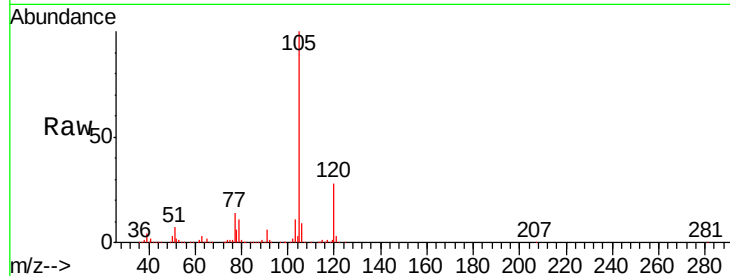
120 27.7 13.5 40.4

Manual Integrations

APPROVED

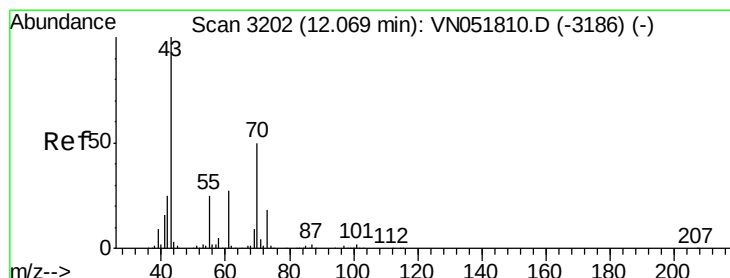
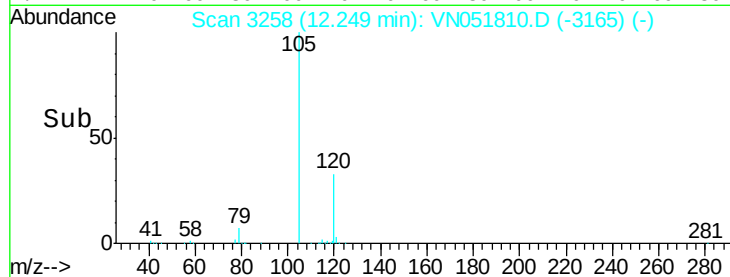
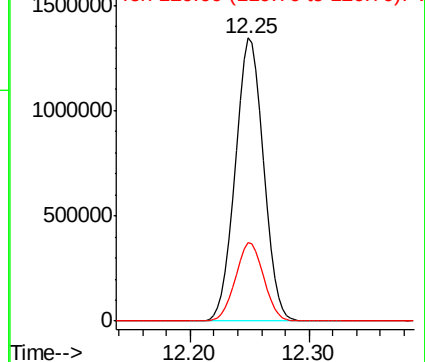
MMDadoda

10/15/2018 3:00:17 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: 35.46 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Tgt Ion: 43 Resp: 466132

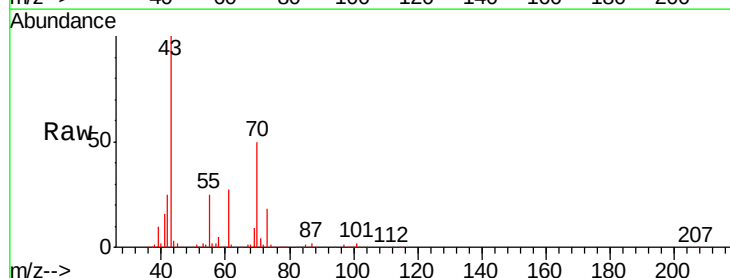
Ion Ratio Lower Upper

43 100

70 49.7 36.2 54.2

55 25.5 21.8 32.8

61 26.9 20.5 30.7

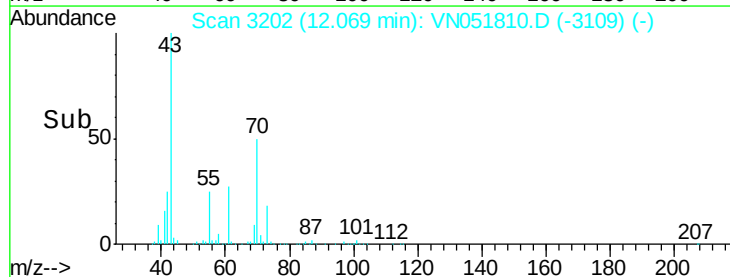
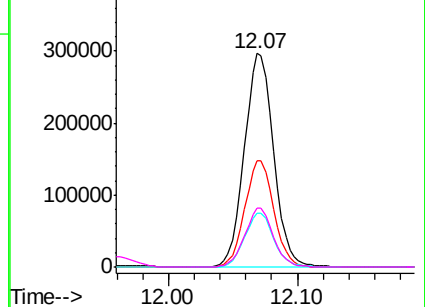


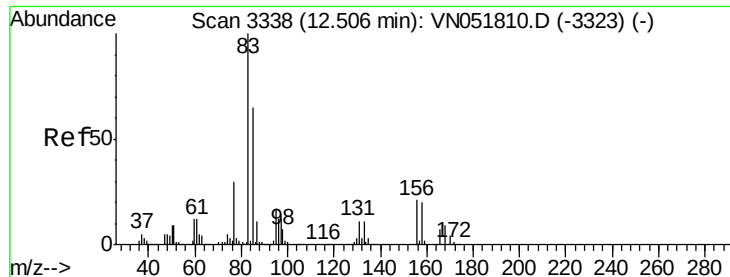
Abundance Ion 43.00 (42.70 to 43.70): V

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: 33.89 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 477706
Ion Ratio Lower Upper

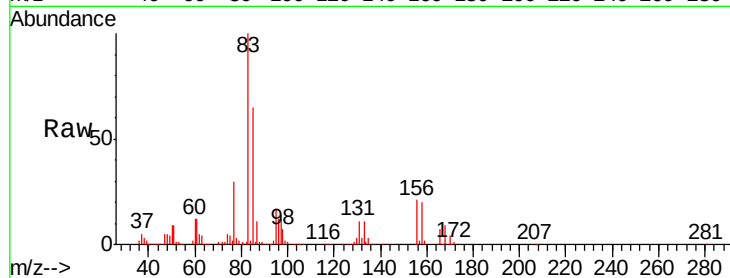
83 100

131 11.6 5.3 15.9

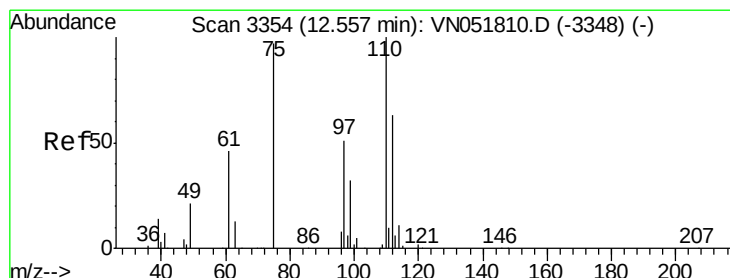
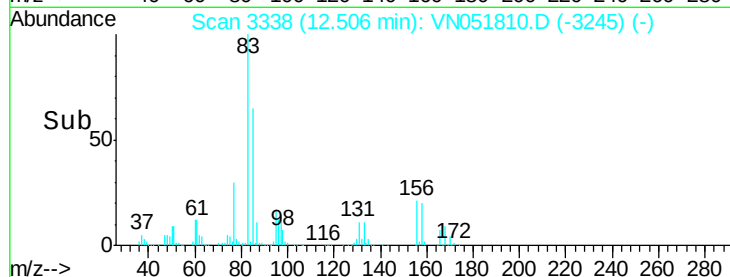
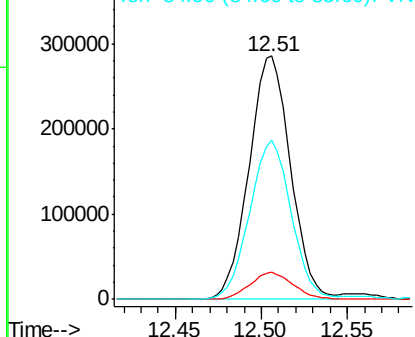
85 65.2 31.9 95.7

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): VN0
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 33.75 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

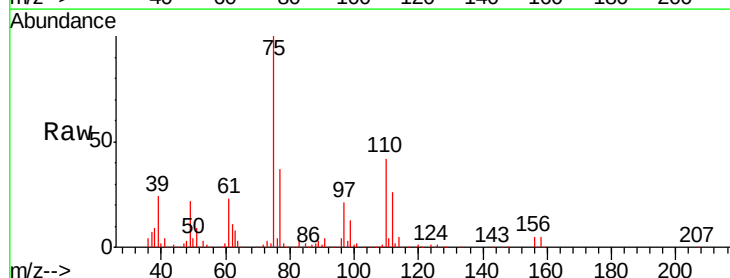
Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

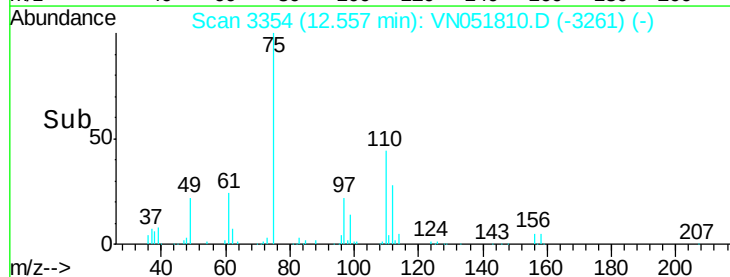
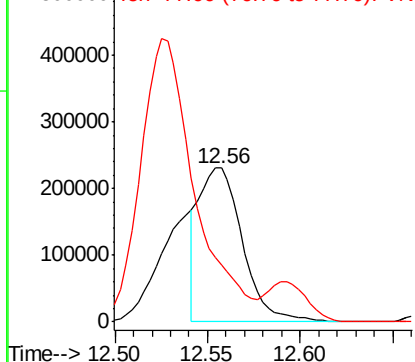
Tgt Ion: 75 Resp: 373459
Ion Ratio Lower Upper

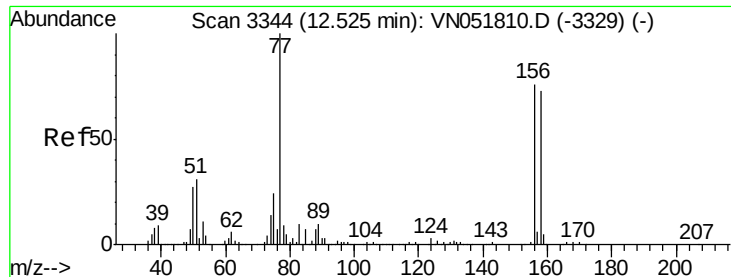
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 38.97 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

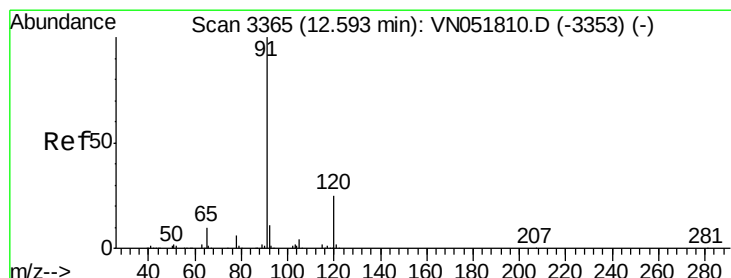
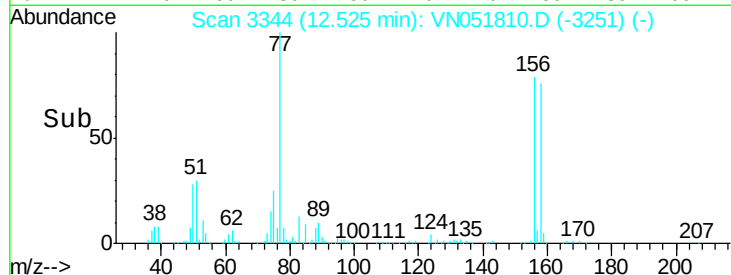
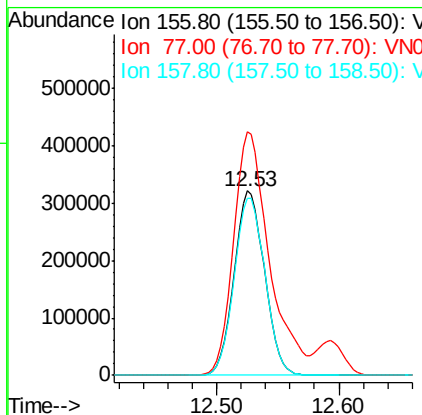
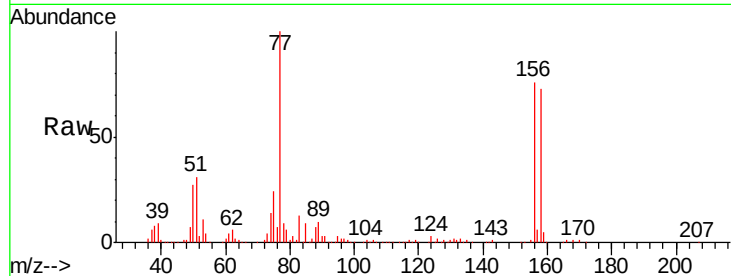
ClientSampleId :

VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
156	100		
77	156.9	89.9	269.7
158	97.6	49.3	147.9

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



#78

n-propylbenzene

Concen: 41.81 ug/l

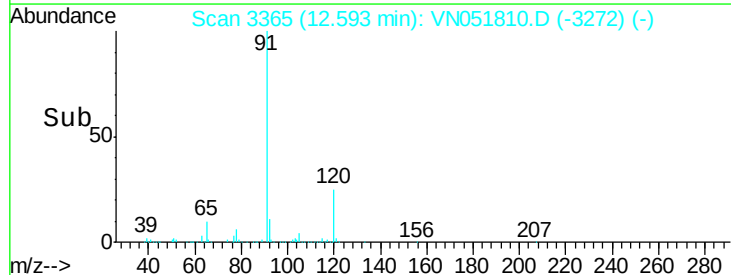
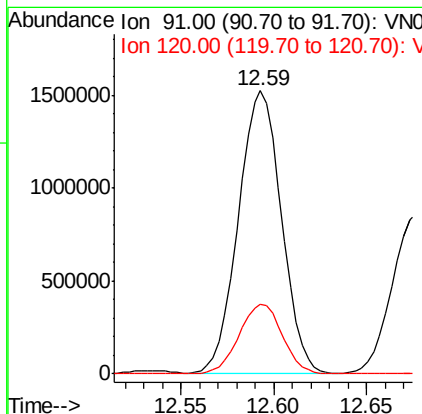
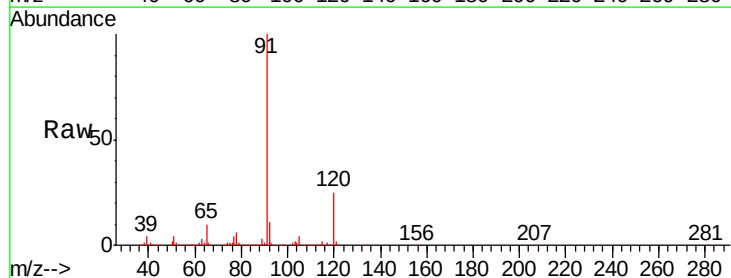
RT: 12.59 min Scan# 3365

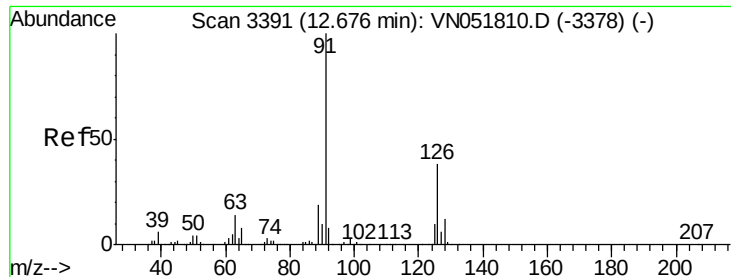
Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.9	11.7	35.0





#79

2-Chlorotoluene

Concen: 38.60 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 1405149

Ion Ratio Lower Upper

91 100

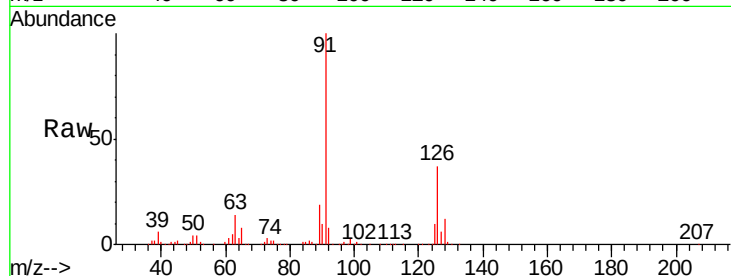
126 37.8 17.8 53.3

Manual Integrations

APPROVED

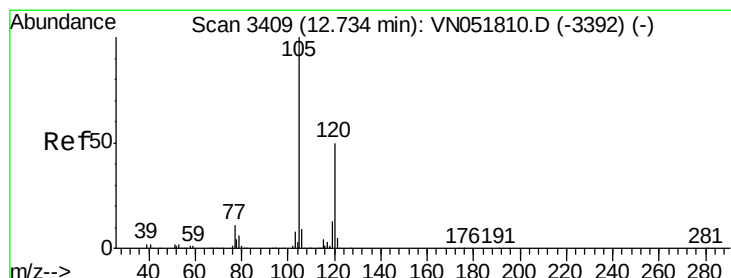
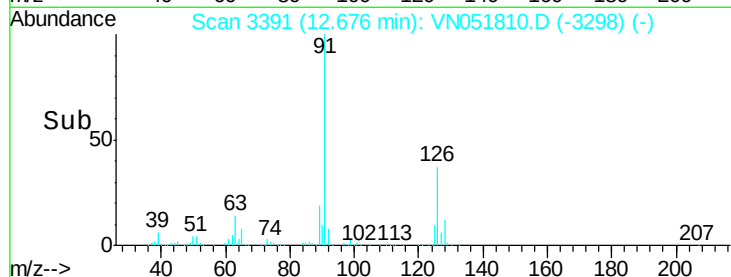
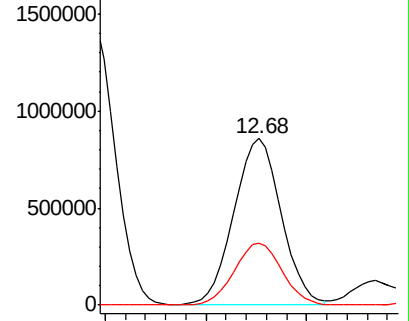
MMDadoda

10/15/2018 3:00:17 PM



Abundance Ion 91.00 (90.70 to 91.70): VN051810.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN051810.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 44.24 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051810.D

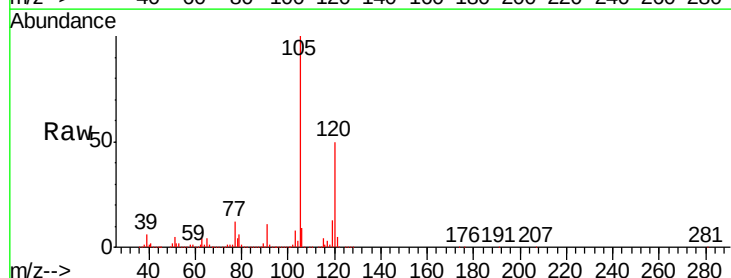
Acq: 11 Oct 2018 11:57

Tgt Ion: 105 Resp: 1867629

Ion Ratio Lower Upper

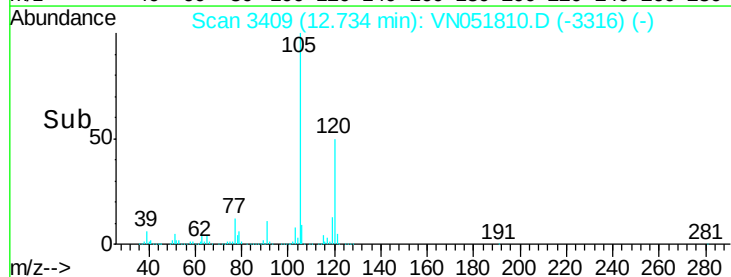
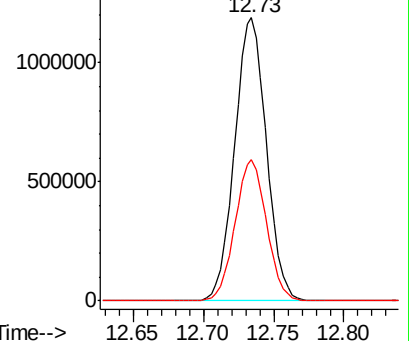
105 100

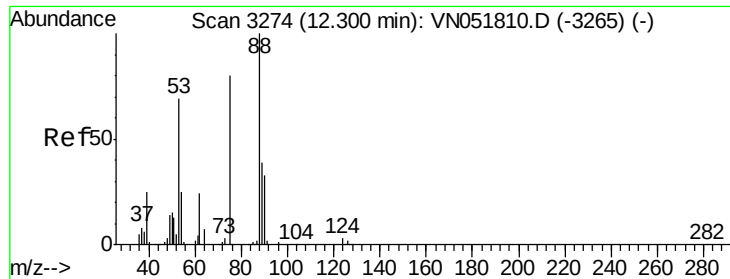
120 49.5 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN051810.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN051810.D (-3392) (-)





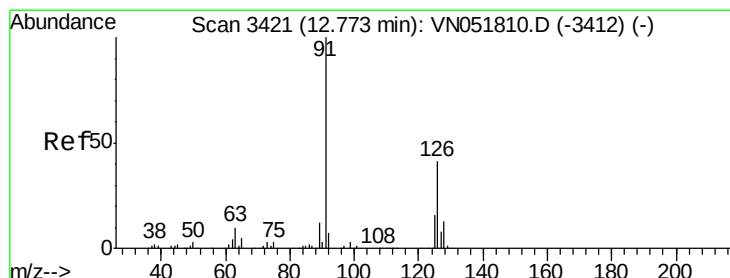
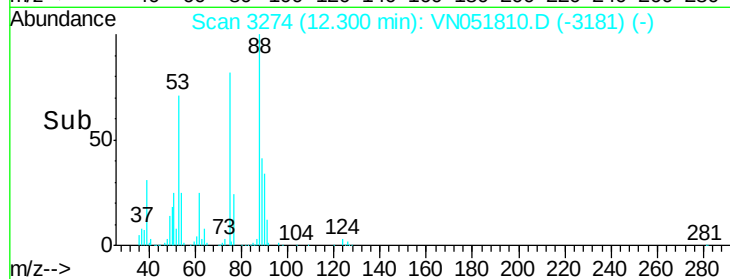
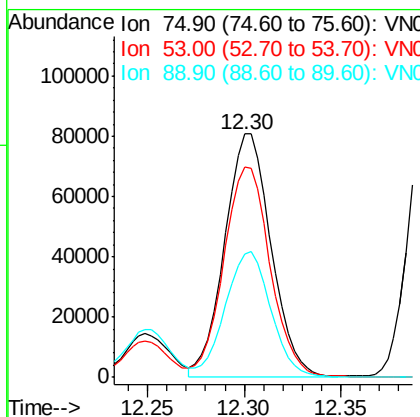
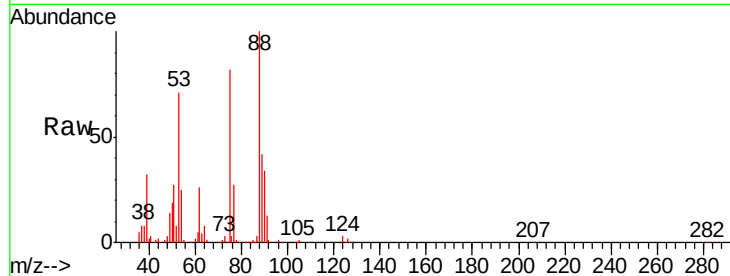
#81
trans-1,4-Dichloro-2-butene
Concen: 41.10 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
75	100		
53	86.8	68.9	103.3
89	50.7	36.1	54.1

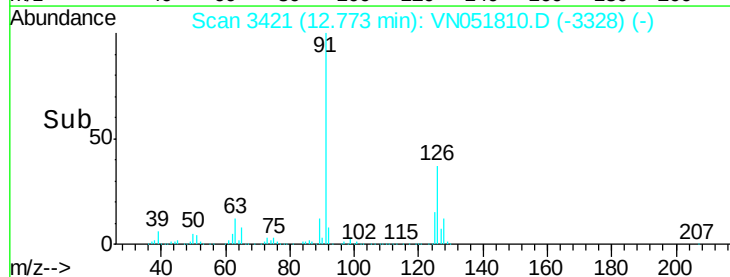
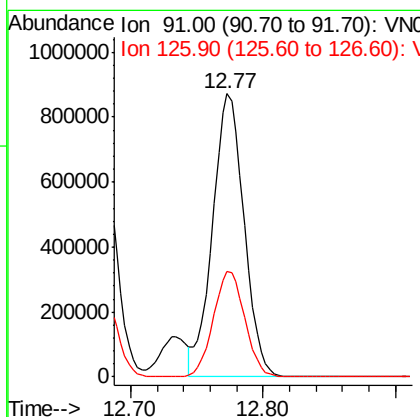
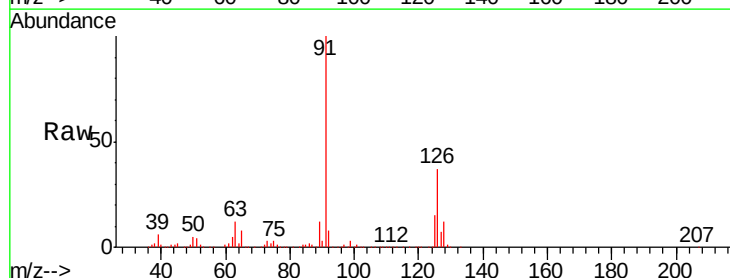
Manual Integrations
APPROVED

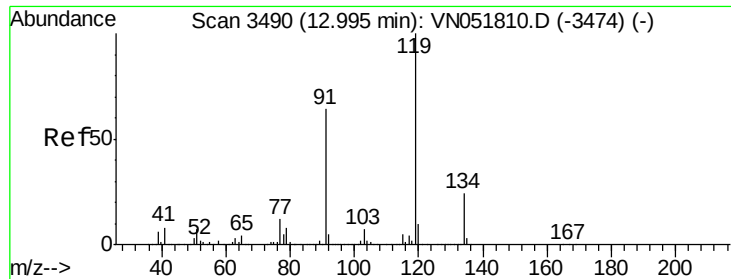
MMDadoda
10/15/2018 3:00:17 PM



#82
4-Chlorotoluene
Concen: 39.87 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.3	17.5	52.5





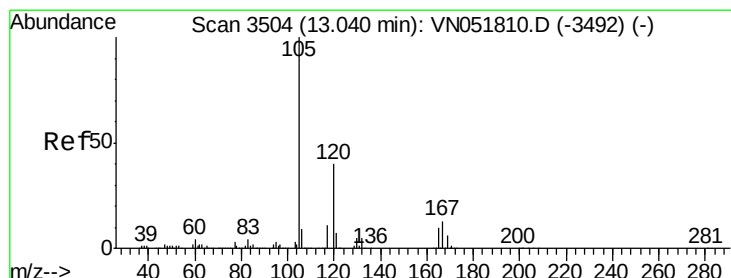
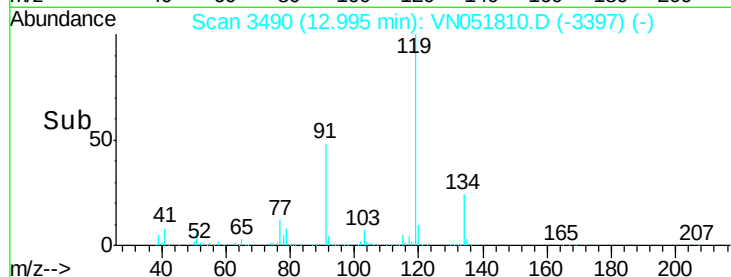
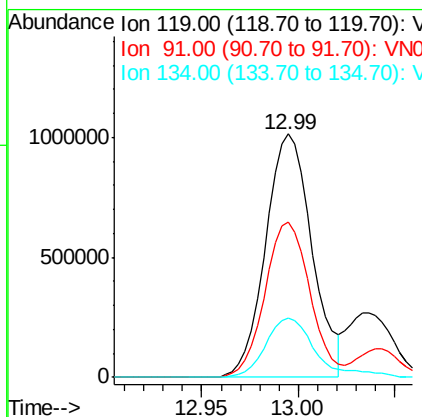
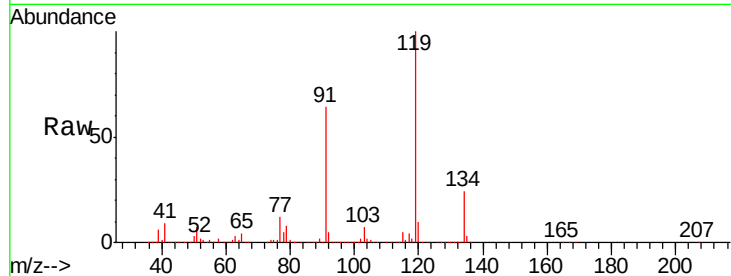
#83
 tert-Butylbenzene
 Concen: 46.22 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion:119 Resp: 1689830
 Ion Ratio Lower Upper
 119 100
 91 62.2 31.6 94.7
 134 26.3 13.4 40.1

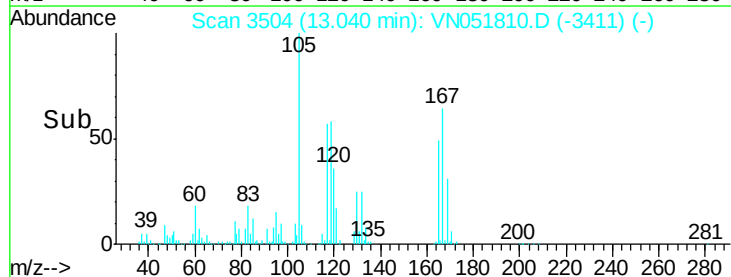
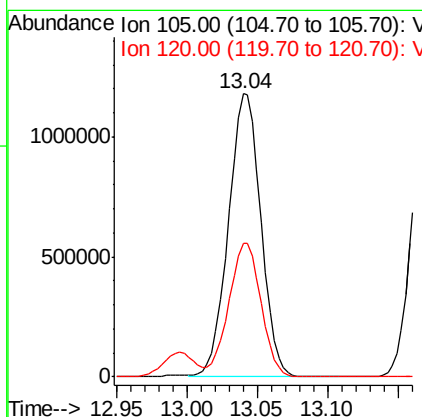
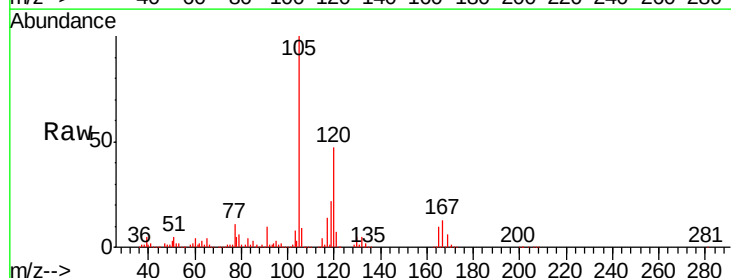
Manual Integrations
 APPROVED

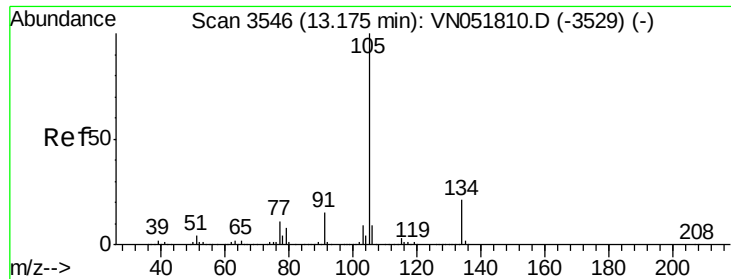
MMDadoda
 10/15/2018 3:00:17 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 44.51 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Tgt Ion:105 Resp: 1889863
 Ion Ratio Lower Upper
 105 100
 120 47.0 22.9 68.8





#85

sec-Butylbenzene

Concen: 47.51 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 2276132

Ion Ratio Lower Upper

105 100

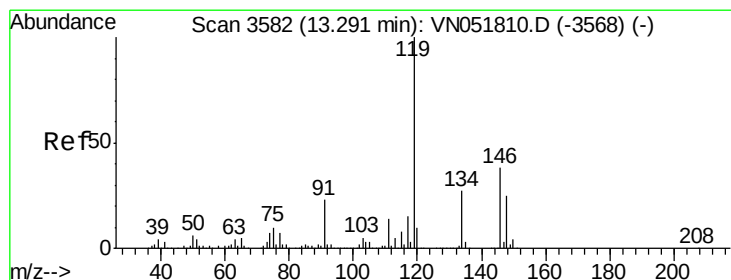
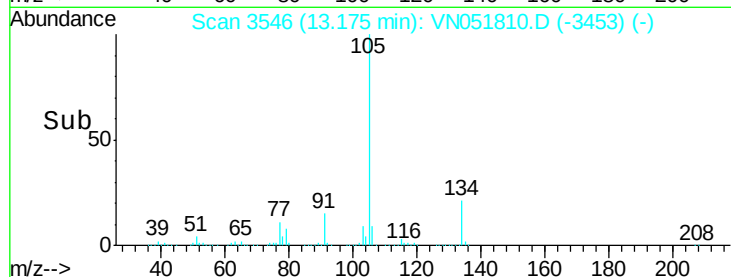
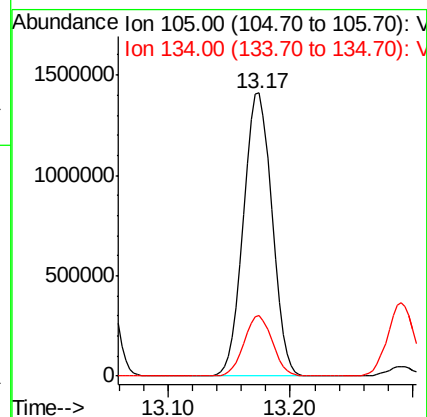
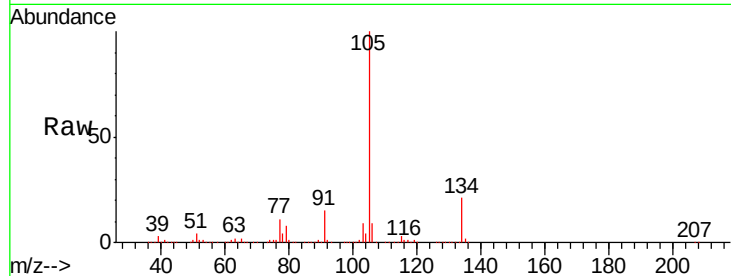
134 21.0 10.3 30.8

Manual Integrations

APPROVED

MMDadoda

10/15/2018 3:00:17 PM



#86

p-Isopropyltoluene

Concen: 50.39 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

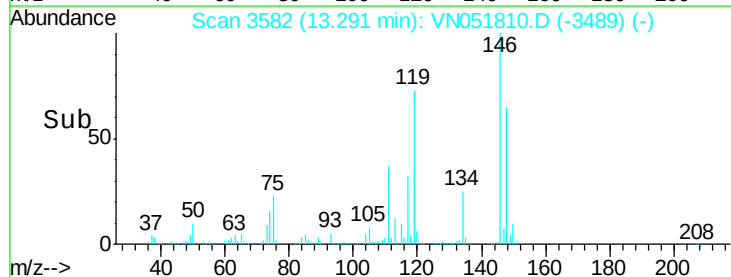
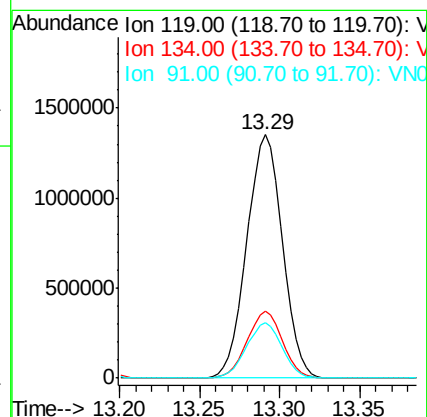
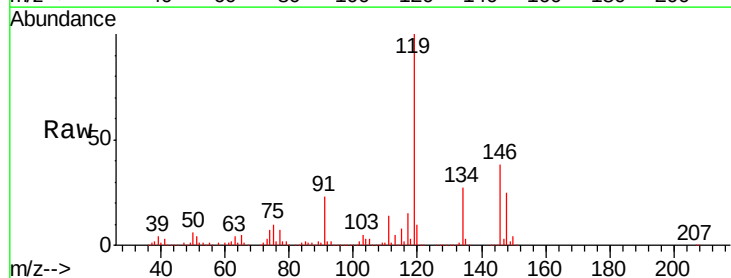
Tgt Ion:119 Resp: 2056852

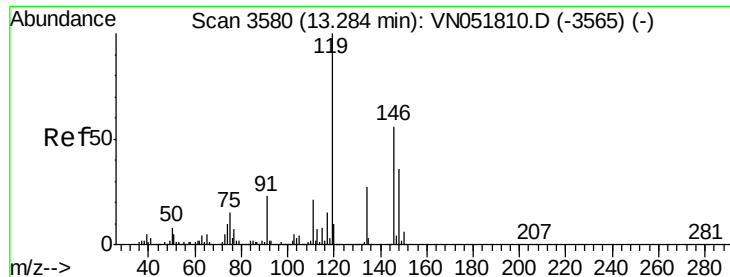
Ion Ratio Lower Upper

119 100

134 27.2 13.7 41.0

91 22.4 11.2 33.5





#87

1,3-Dichlorobenzene

Concen: 42.30 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

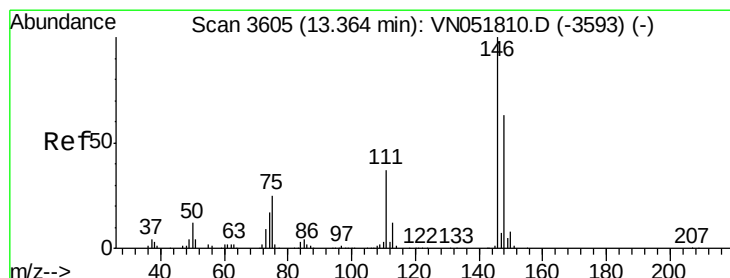
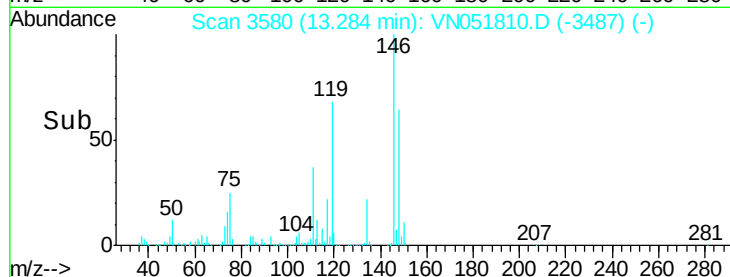
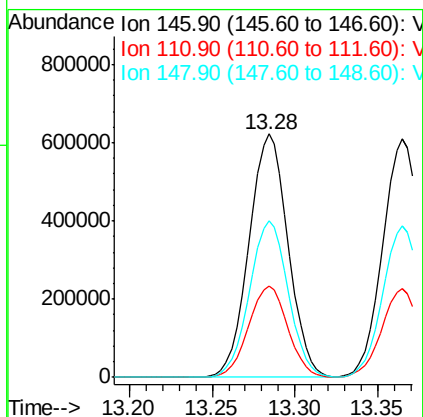
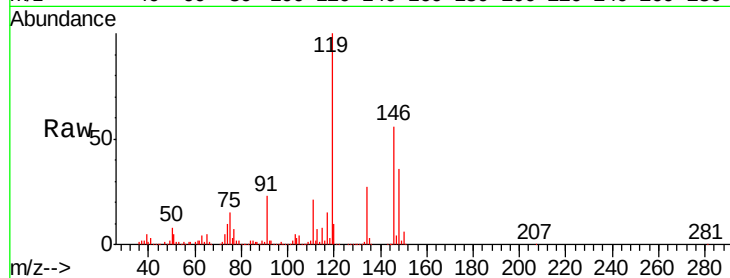
VSTDICCC050

Tgt Ion:146 Resp: 1020735

Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.1	57.3
148	64.0	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



#88

1,4-Dichlorobenzene

Concen: 41.66 ug/l

RT: 13.36 min Scan# 3605

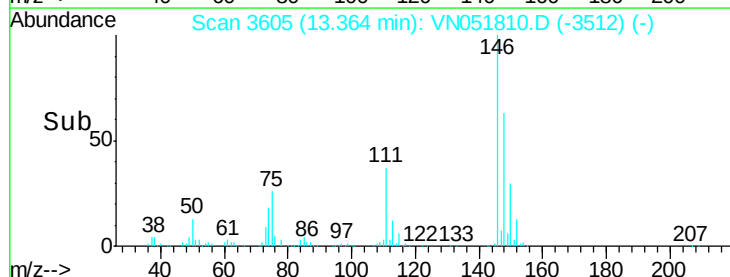
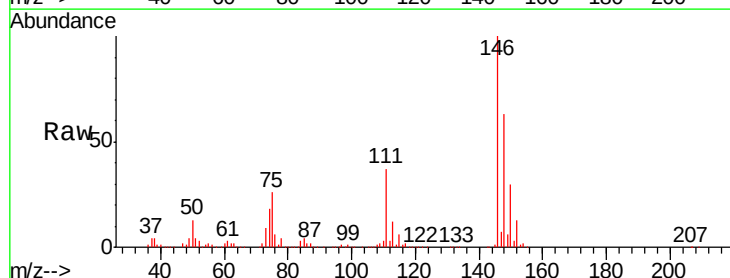
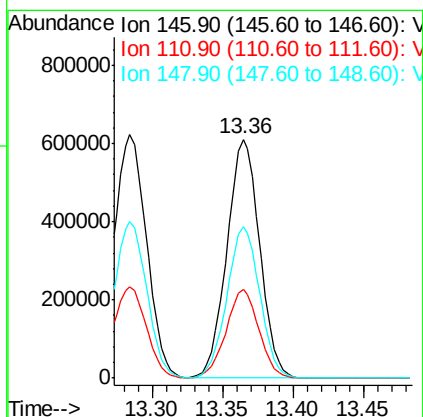
Delta R.T. 0.00 min

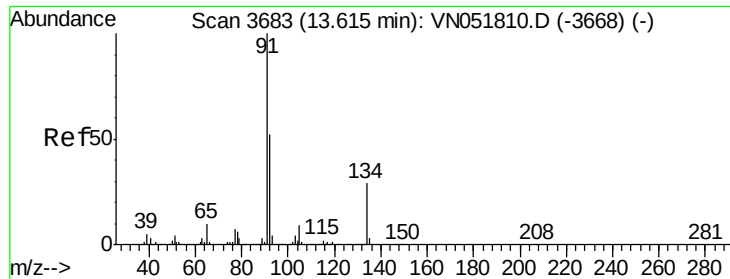
Lab File: VN051810.D

Acq: 11 Oct 2018 11:57

Tgt Ion:146 Resp: 989296

Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.8	56.3
148	63.7	32.2	96.6





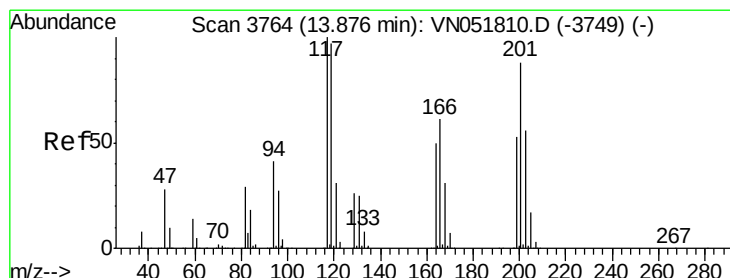
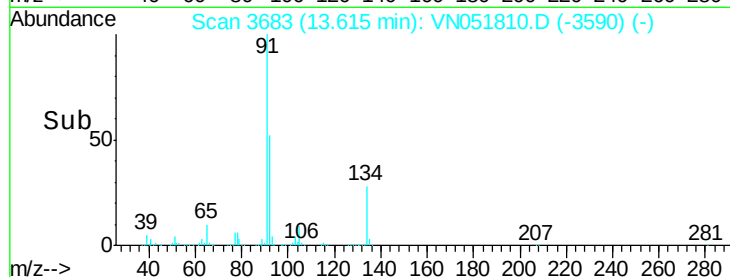
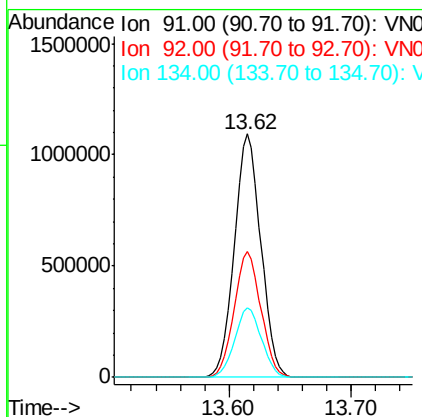
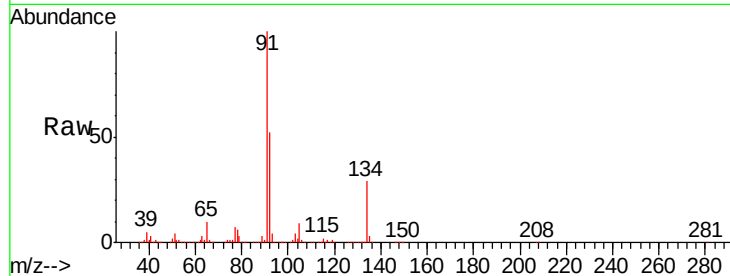
#89
n-Butylbenzene
Concen: 50.31 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 1642516
Ion Ratio Lower Upper
91 100
92 52.0 26.1 78.2
134 29.0 13.2 39.6

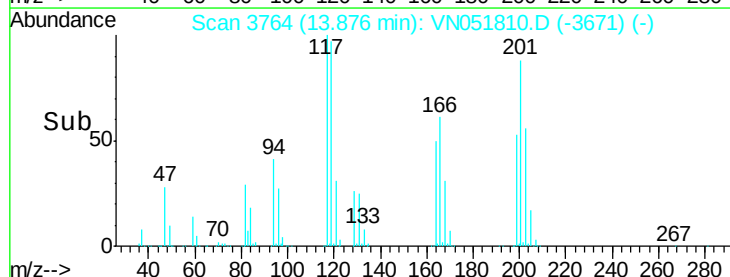
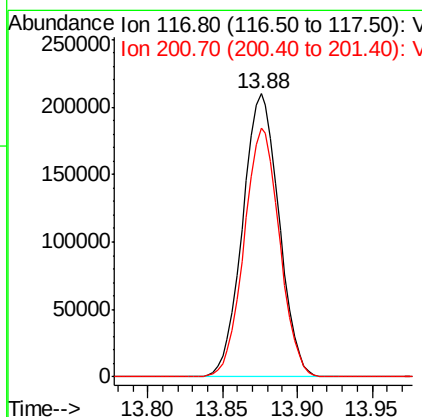
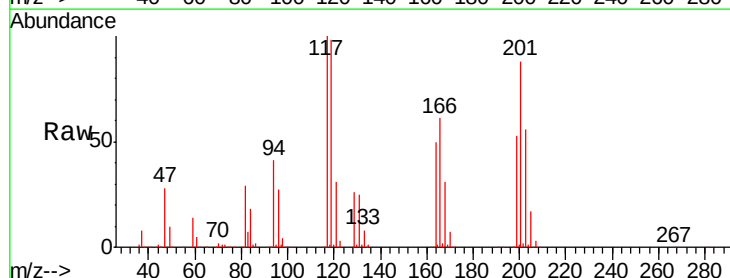
Manual Integrations
APPROVED

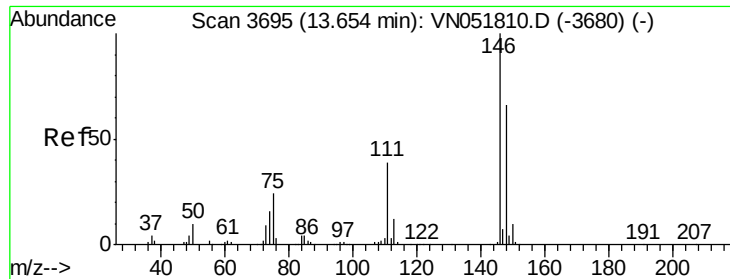
MMDadoda
10/15/2018 3:00:17 PM



#90
Hexachloroethane
Concen: 42.03 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion: 117 Resp: 355123
Ion Ratio Lower Upper
117 100
201 85.5 46.0 137.8





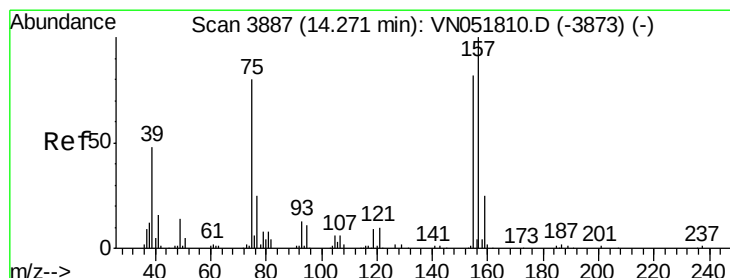
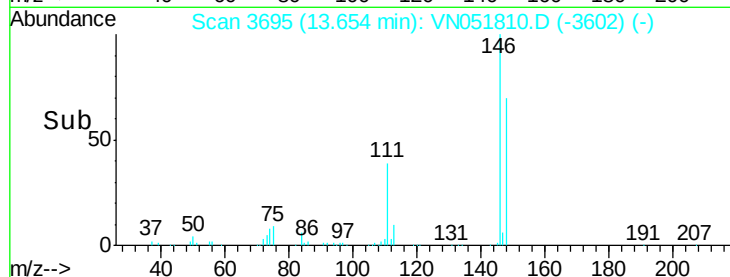
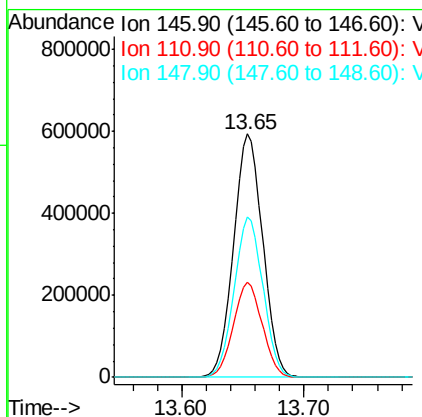
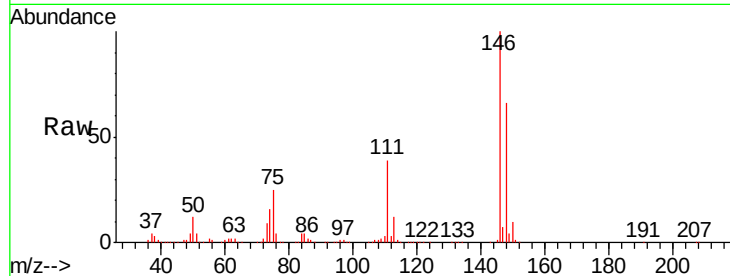
#91
 1,2-Dichlorobenzene
 Concen: 42.30 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	984694		
111	38.5	19.8	59.3	
148	65.0	32.3	96.8	

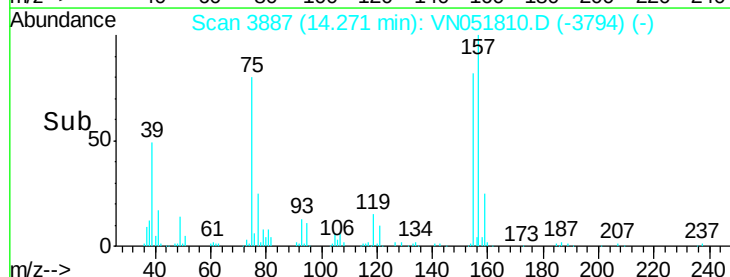
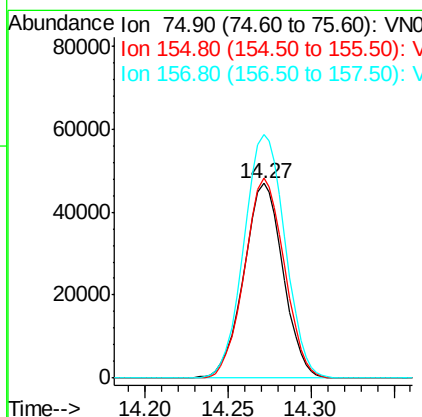
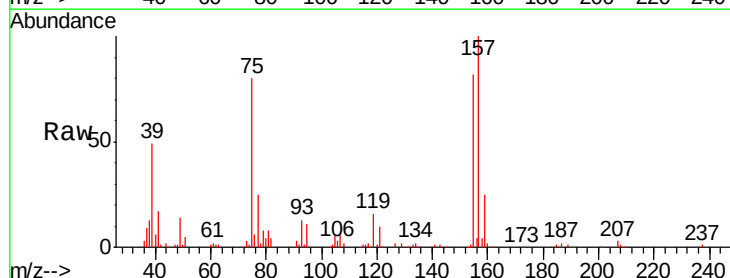
Manual Integrations
 APPROVED

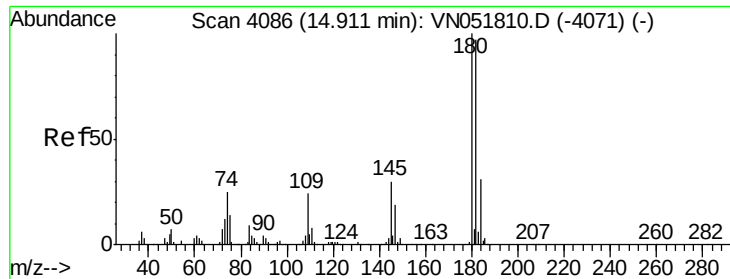
MMDadoda
 10/15/2018 3:00:17 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 41.09 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	77206		
155	104.0	46.4	139.1	
157	130.7	60.7	182.0	





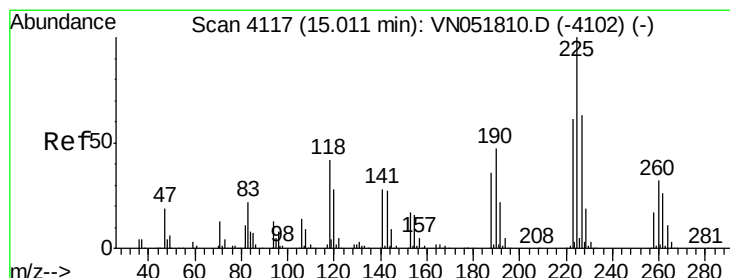
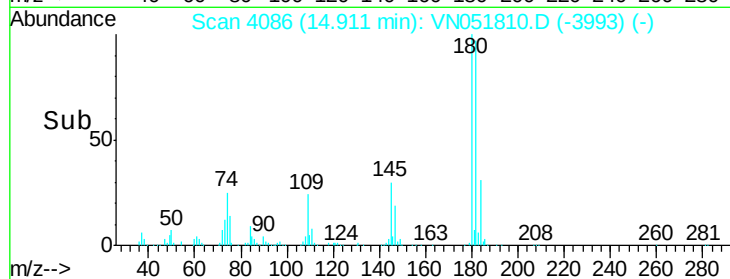
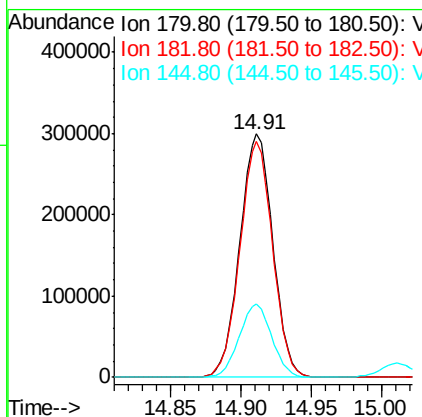
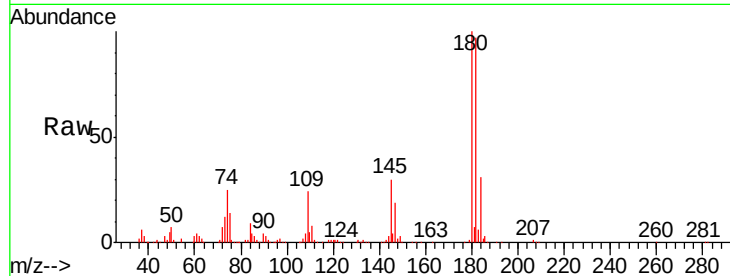
#93
 1,2,4-Trichlorobenzene
 Concen: 48.40 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	490396		
182	96.0	48.2	144.6	
145	29.7	14.1	42.2	

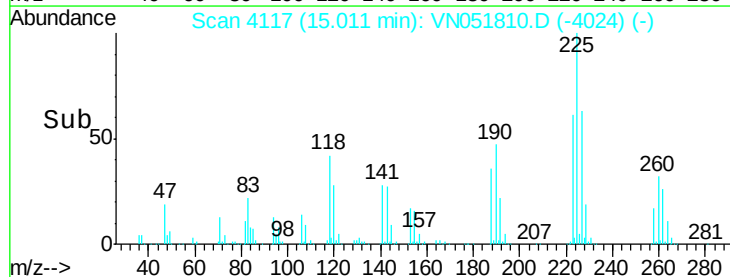
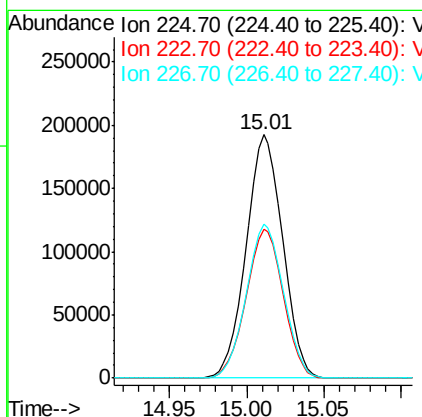
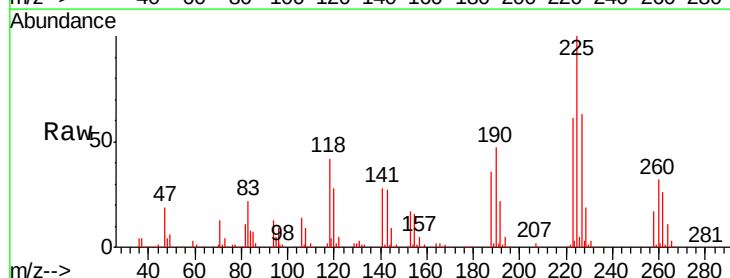
Manual Integrations
 APPROVED

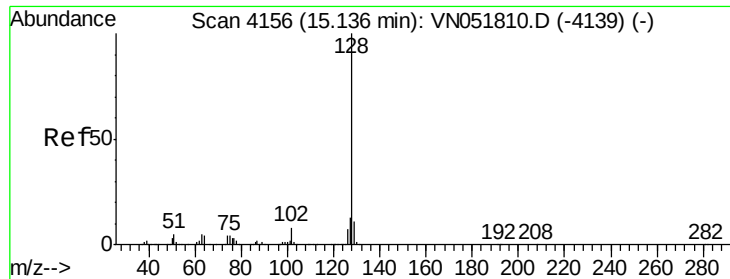
MMDadoda
 10/15/2018 3:00:17 PM



#94
 Hexachlorobutadiene
 Concen: 41.82 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051810.D
 Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	317459		
223	62.0	31.3	93.8	
227	64.2	32.0	96.2	





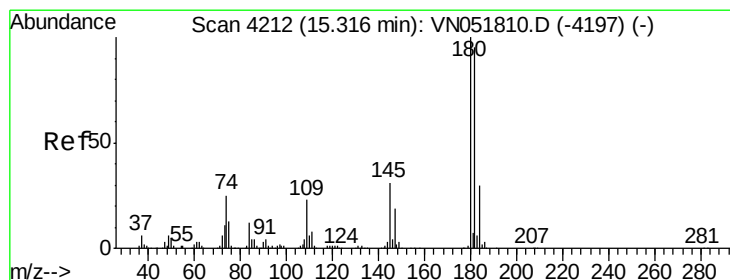
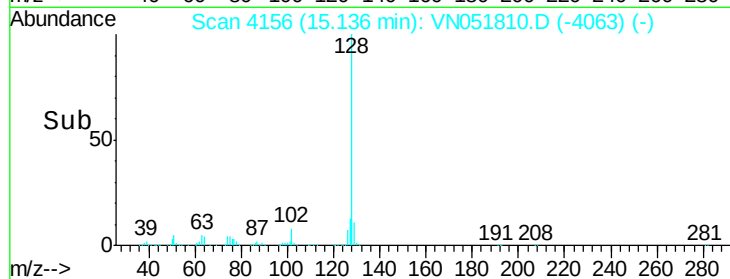
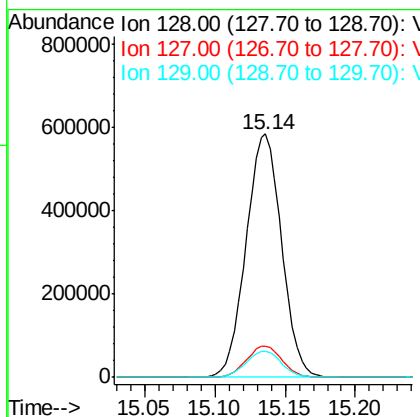
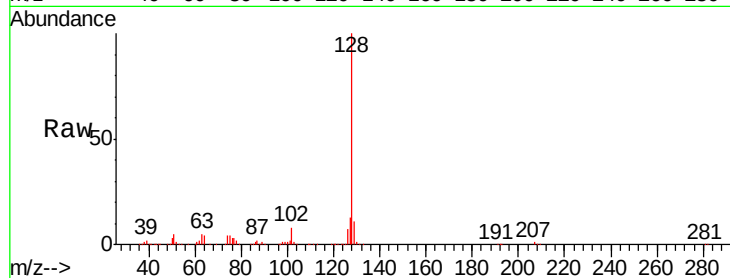
#95
Naphthalene
Concen: 51.57 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/15/2018 3:00:17 PM



#96
1,2,3-Trichlorobenzene
Concen: 48.80 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051810.D
Acq: 11 Oct 2018 11:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.0	144.2
145	30.5	15.2	45.6

