

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
 Data File : VN050011.D
 Acq On : 23 Jul 2018 17:57
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 1:50:42 PM

Quant Time: Jul 24 06:00:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 05:50:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	547487	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	869633	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	766039	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	344645	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	44572	5.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.84%	
35) Dibromofluoromethane	7.59	113	37794	5.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.36%	
50) Toluene-d8	10.09	98	125590	4.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.46%	
62) 4-Bromofluorobenzene	12.40	95	36425	4.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	32728	5.10	ug/l	98
3) Chloromethane	2.06	50	43054	5.56	ug/l	100
4) Vinyl Chloride	2.18	62	46827	5.71	ug/l	97
5) Bromomethane	2.55	94	29668	5.66	ug/l	97
6) Chloroethane	2.69	64	29074	5.51	ug/l	94
7) Trichlorofluoromethane	3.01	101	61187	5.49	ug/l	99
8) Diethyl Ether	3.41	74	19978	5.18	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	36299	5.31	ug/l	99
10) Methyl Iodide	3.95	142	39849	4.38	ug/l	97
11) Tert butyl alcohol	4.81	59	13996	25.89	ug/l #	91
12) 1,1-Dichloroethene	3.73	96	32210	5.34	ug/l	98
13) Acrolein	3.61	56	19026	51.97	ug/l	98
14) Allyl chloride	4.33	41	48269	5.11	ug/l	99
15) Acrylonitrile	5.00	53	63416	26.81	ug/l	99
16) Acetone	3.83	43	53406	27.23	ug/l	100
17) Carbon Disulfide	4.05	76	100609	5.55	ug/l	100
18) Methyl Acetate	4.33	43	43300	5.77	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	82010	4.99	ug/l	99
20) Methylene Chloride	4.55	84	40122	5.38	ug/l	95
21) trans-1,2-Dichloroethene	5.05	96	34721	5.46	ug/l	93
22) Diisopropyl ether	5.96	45	95785	5.00	ug/l	92
23) Vinyl Acetate	5.90	43	328205	24.45	ug/l	100
24) 1,1-Dichloroethane	5.85	63	68135	5.51	ug/l	99
25) 2-Butanone	6.85	43	75158	26.82	ug/l	98
26) 2,2-Dichloropropane	6.82	77	52556	5.49	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	37635	5.41	ug/l	98
28) Bromochloromethane	7.20	49	31346	5.66	ug/l	100
29) Tetrahydrofuran	7.22	42	45429	25.76	ug/l	98
30) Chloroform	7.37	83	71079	5.62	ug/l	96
31) Cyclohexane	7.66	56	56912	4.92	ug/l #	85
32) 1,1,1-Trichloroethane	7.57	97	58094	5.31	ug/l	97
36) 1,1-Dichloropropene	7.79	75	45356	4.66	ug/l	97
37) Ethyl Acetate	6.94	43	33542	5.04	ug/l	98
38) Carbon Tetrachloride	7.78	117	52484	5.04	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
 Data File : VN050011.D
 Acq On : 23 Jul 2018 17:57
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 1:50:42 PM

Quant Time: Jul 24 06:00:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 05:50:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	44912	4.46	ug/l	96
40) Benzene	8.04	78	150976	5.09	ug/l	99
41) Methacrylonitrile	7.17	41	13074	4.01	ug/l #	70
42) 1,2-Dichloroethane	8.13	62	51299	5.23	ug/l	99
43) Isopropyl Acetate	8.17	43	82280	7.03	ug/l #	87
44) Trichloroethene	8.84	130	40773	5.24	ug/l	97
45) 1,2-Dichloropropane	9.12	63	40411	5.07	ug/l	98
46) Dibromomethane	9.21	93	25066	5.06	ug/l	97
47) Bromodichloromethane	9.41	83	52601	5.14	ug/l	98
48) Methyl methacrylate	9.20	41	26356	4.49	ug/l	96
49) 1,4-Dioxane	9.20	88	7685	93.80	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	161442	24.78	ug/l	95
52) Toluene	10.16	92	85724	4.86	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	45407	4.50	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	54600	4.89	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	36241	4.98	ug/l	97
56) Ethyl methacrylate	10.43	69	36074	4.27	ug/l	98
57) 1,3-Dichloropropane	10.71	76	57936	5.05	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	79904	20.75	ug/l	97
59) 2-Hexanone	10.76	43	101441	23.21	ug/l	92
60) Dibromochloromethane	10.90	129	39000	4.89	ug/l	100
61) 1,2-Dibromoethane	11.01	107	35017	5.14	ug/l	98
64) Tetrachloroethene	10.63	164	38134	5.44	ug/l	98
65) Chlorobenzene	11.44	112	98287	5.08	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	38521	5.15	ug/l	99
67) Ethyl Benzene	11.51	91	141544	4.52	ug/l	99
68) m/p-Xylenes	11.62	106	107252	9.05	ug/l	98
69) o-Xylene	11.95	106	50777	4.46	ug/l	99
70) Styrene	11.97	104	74410	4.06	ug/l	97
71) Bromoform	12.13	173	26866	5.04	ug/l #	99
73) Isopropylbenzene	12.25	105	134227	5.10	ug/l	98
74) N-amyl acetate	12.07	43	37875	4.73	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	45785	5.81	ug/l	98
76) 1,2,3-Trichloropropane	12.56	75	36388m	5.64	ug/l	
77) Bromobenzene	12.53	156	38488	5.29	ug/l	99
78) n-propylbenzene	12.59	91	144385	4.82	ug/l	99
79) 2-Chlorotoluene	12.68	91	96294	5.24	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	101333	4.81	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.31	75	9938	4.80	ug/l	92
82) 4-Chlorotoluene	12.78	91	91194	4.95	ug/l	99
83) tert-Butylbenzene	12.99	119	90456	4.90	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	101083	4.73	ug/l	100
85) sec-Butylbenzene	13.17	105	118656	4.85	ug/l	98
86) p-Isopropyltoluene	13.29	119	95477	4.58	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	64121	5.07	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	61539	4.86	ug/l	93
89) n-Butylbenzene	13.62	91	75684	4.40	ug/l	98
90) Hexachloroethane	13.88	117	24625	5.27	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	63828	5.14	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	6905	5.63	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
Data File : VN050011.D
Acq On : 23 Jul 2018 17:57
Operator : MD\SY
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

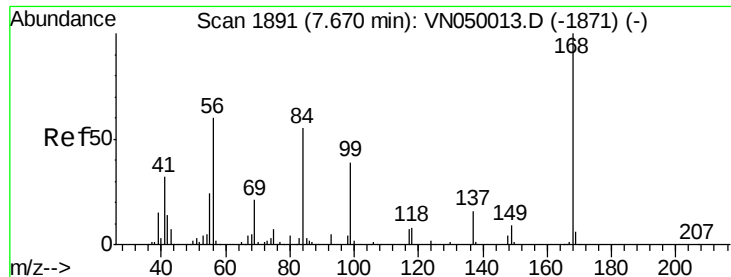
Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM

Quant Time: Jul 24 06:00:01 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 24 05:50:19 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	20011	3.51	ug/l	96
94) Hexachlorobutadiene	15.01	225	20865	5.13	ug/l	97
95) Naphthalene	15.14	128	38089	3.04	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	21951	3.70	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 547487

Ion Ratio Lower Upper

168 100

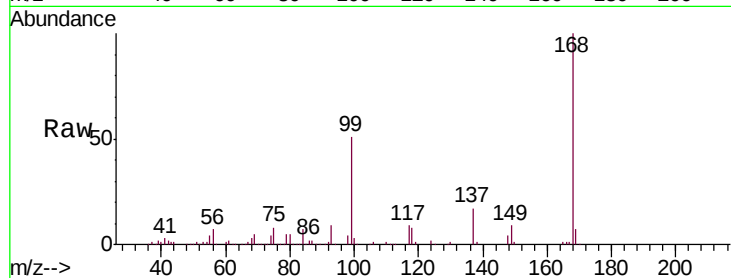
99 50.7 40.0 60.0

Manual Integrations

APPROVED

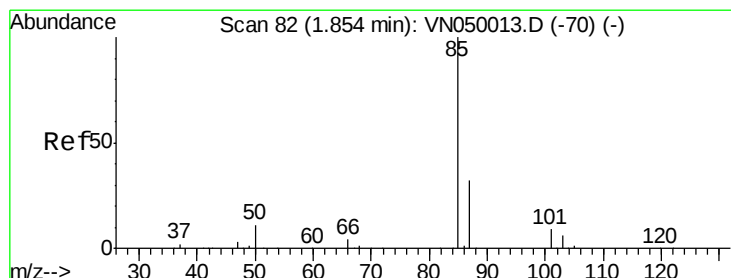
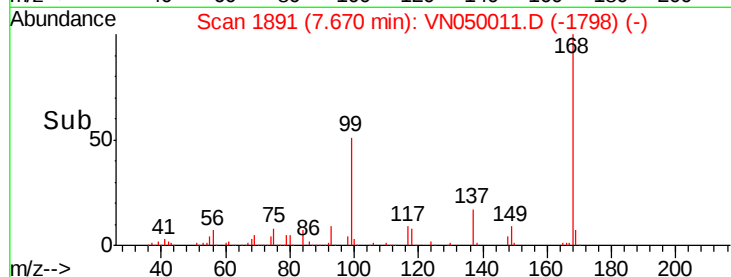
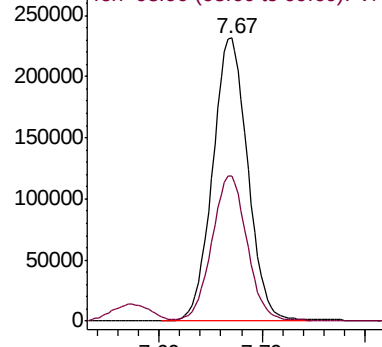
MMDadoda

7/26/2018 1:50:42 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 5.10 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN050011.D

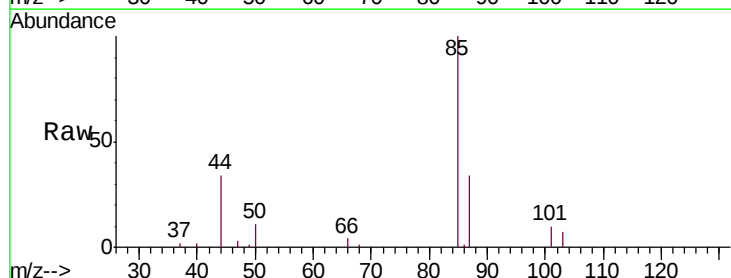
Acq: 23 Jul 2018 17:57

Tgt Ion: 85 Resp: 32728

Ion Ratio Lower Upper

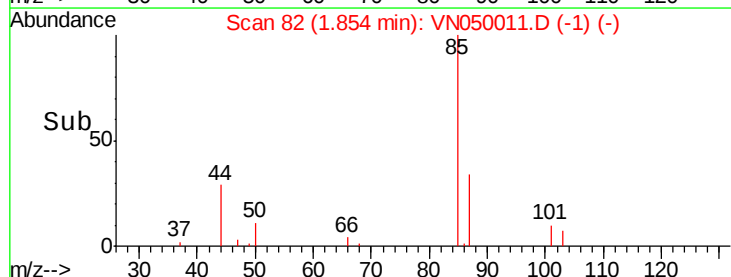
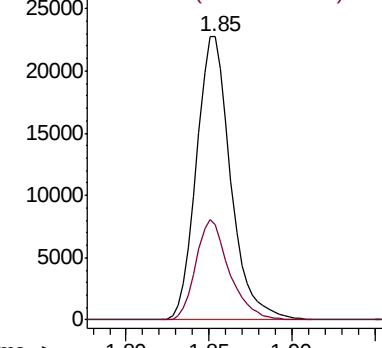
85 100

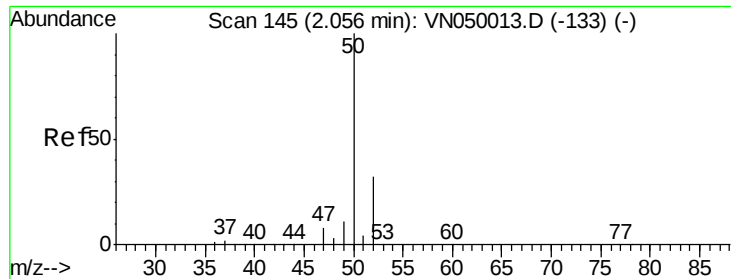
87 33.6 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 5.56 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 43054

Ion Ratio Lower Upper

50 100

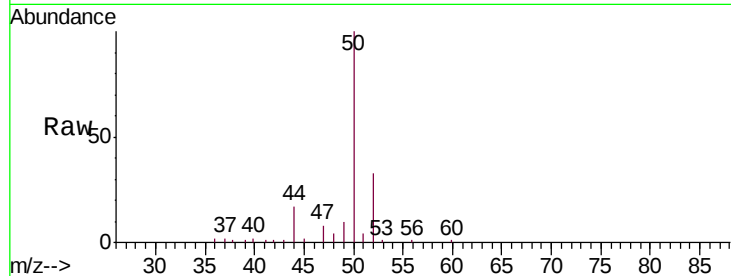
52 32.6 25.9 38.9

Manual Integrations

APPROVED

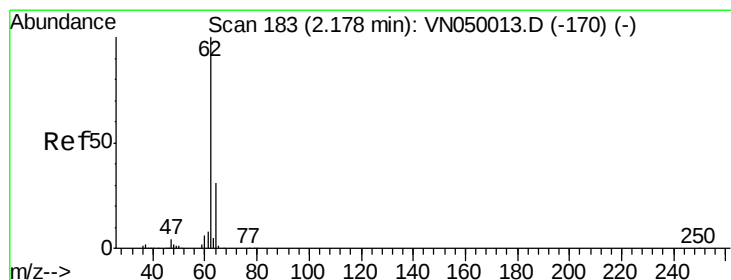
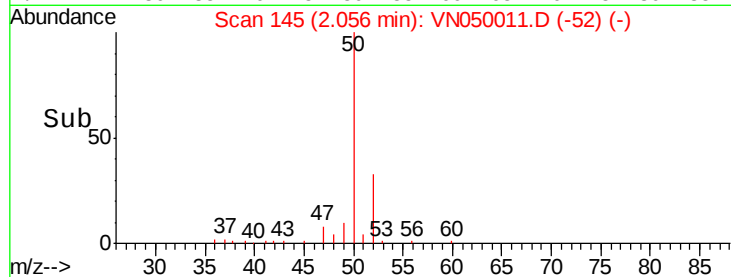
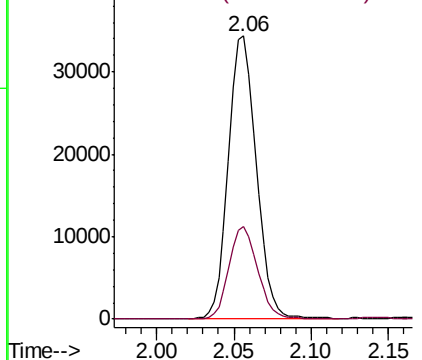
MMDadoda

7/26/2018 1:50:42 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 5.71 ug/l

RT: 2.18 min Scan# 183

Delta R.T. 0.00 min

Lab File: VN050011.D

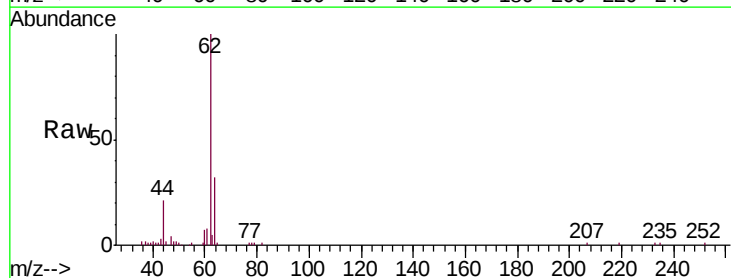
Acq: 23 Jul 2018 17:57

Tgt Ion: 62 Resp: 46827

Ion Ratio Lower Upper

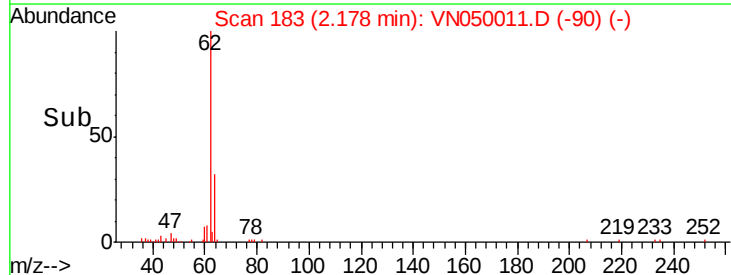
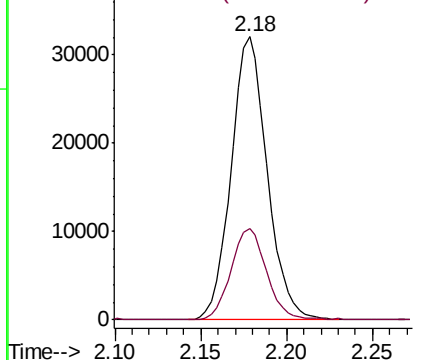
62 100

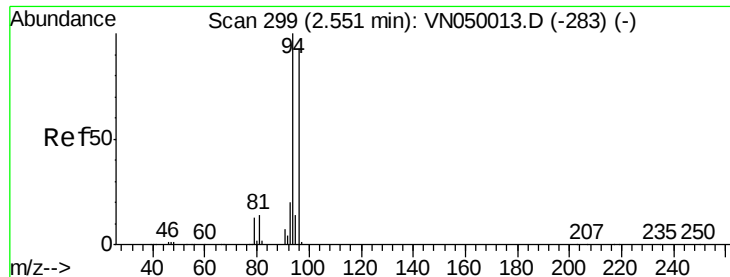
64 32.3 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 5.66 ug/l

RT: 2.55 min Scan# 299

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 29668

Ion Ratio Lower Upper

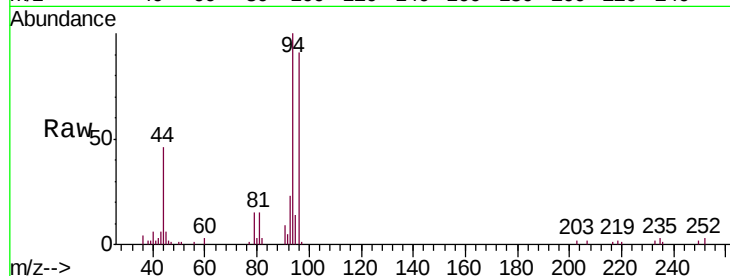
94 100

96 90.1 74.6 112.0

Manual Integrations
APPROVED

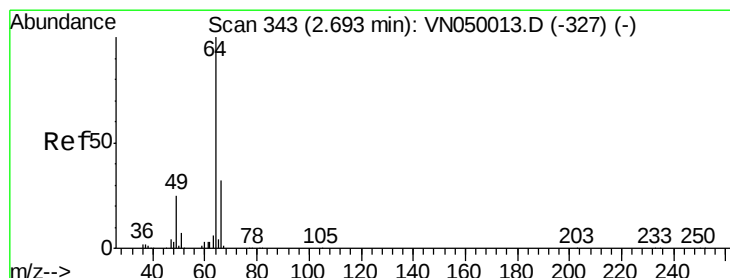
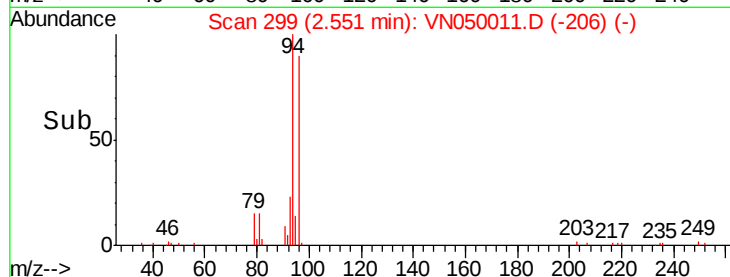
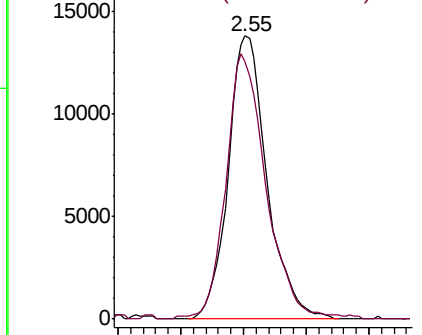
MMDadoda

7/26/2018 1:50:42 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 5.51 ug/l

RT: 2.69 min Scan# 343

Delta R.T. 0.00 min

Lab File: VN050011.D

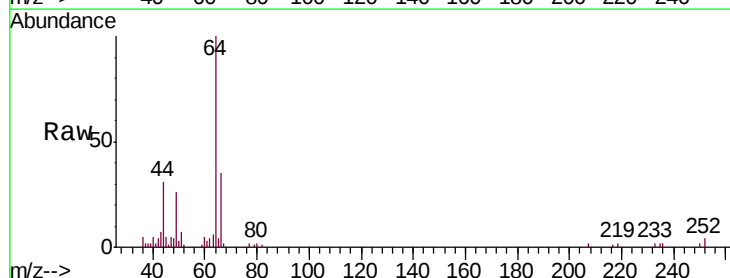
Acq: 23 Jul 2018 17:57

Tgt Ion: 64 Resp: 29074

Ion Ratio Lower Upper

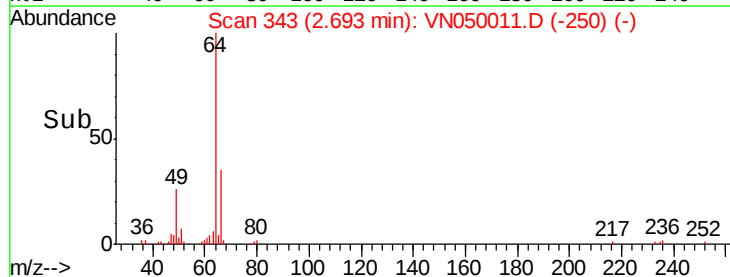
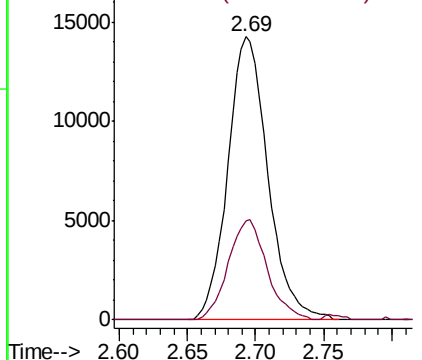
64 100

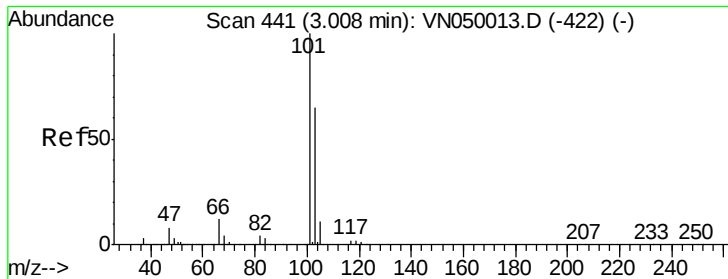
66 35.0 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

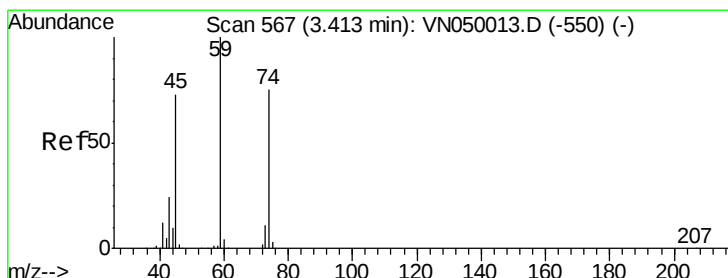
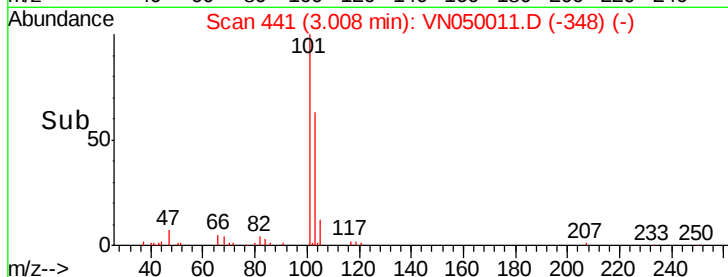
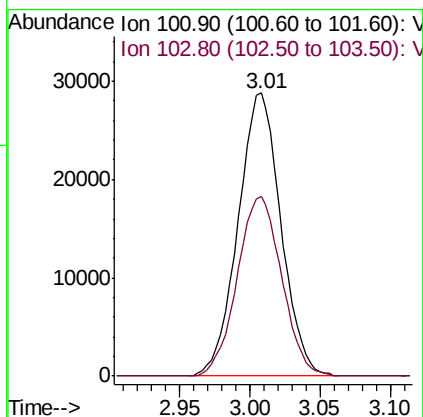
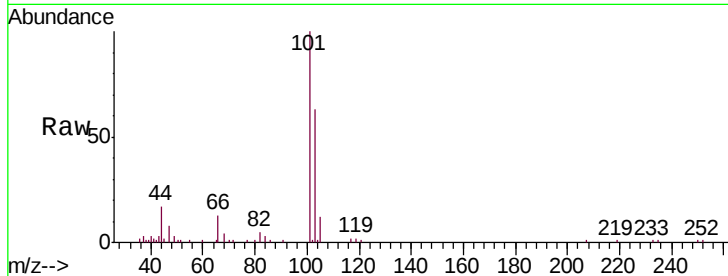
Trichlorofluoromethane
 Concen: 5.49 ug/l
 RT: 3.01 min Scan# 441
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.4	51.7	77.5

Manual Integrations
 APPROVED

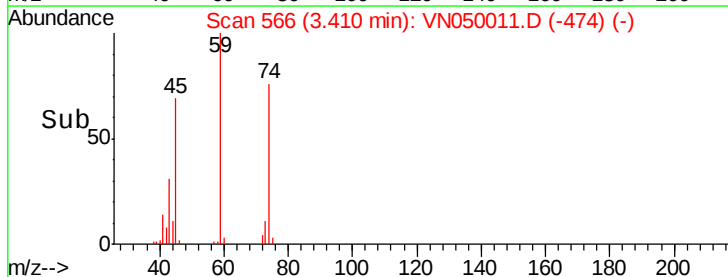
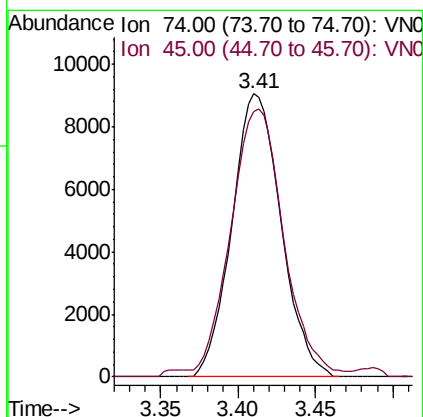
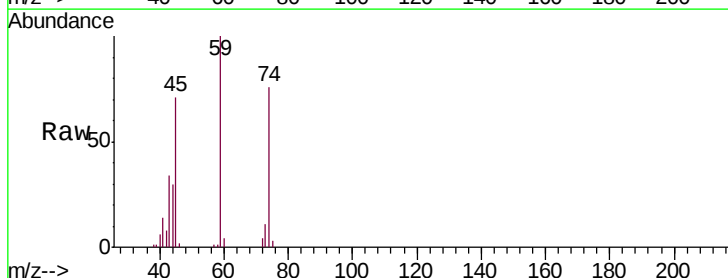
MMDadoda
 7/26/2018 1:50:42 PM

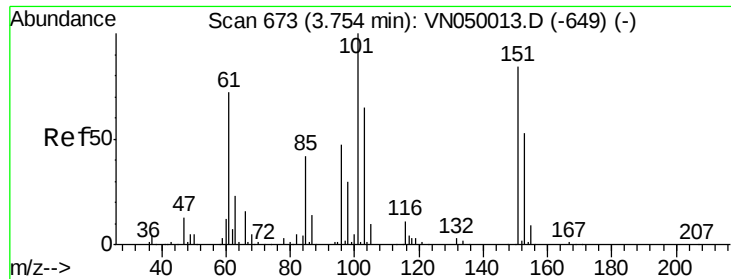


#8

Diethyl Ether
 Concen: 5.18 ug/l
 RT: 3.41 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.0	47.6	142.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.31 ug/l

RT: 3.75 min Scan# 672

Delta R.T. -0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

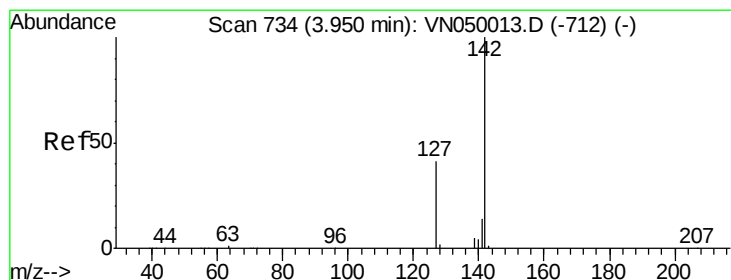
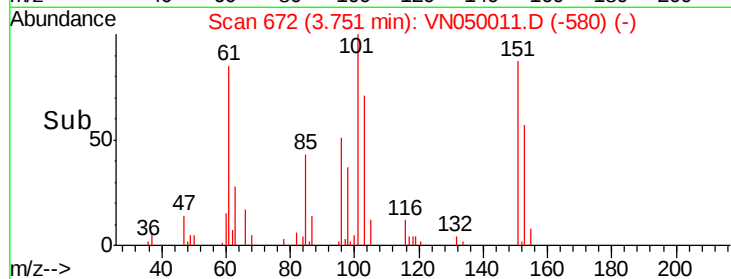
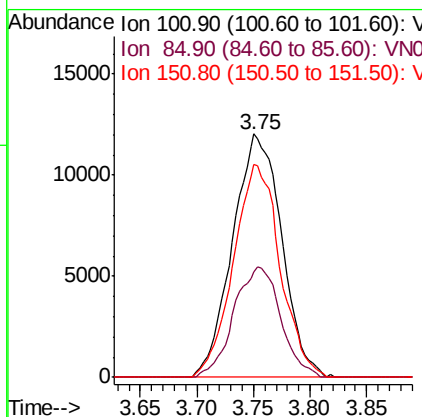
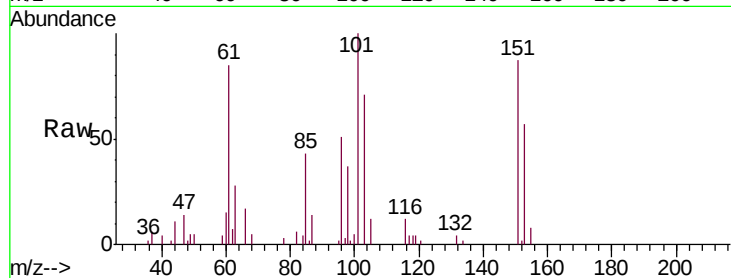
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	36299
Ion Ratio	Lower	Upper	
101	100		
85	43.3	34.2	51.2
151	83.3	66.3	99.5

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM



#10

Methyl Iodide

Concen: 4.38 ug/l

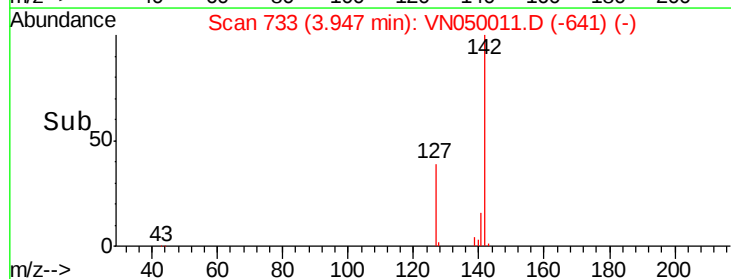
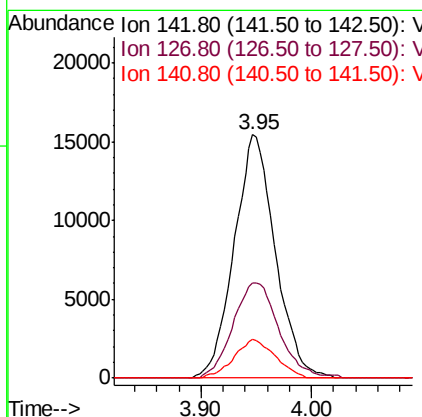
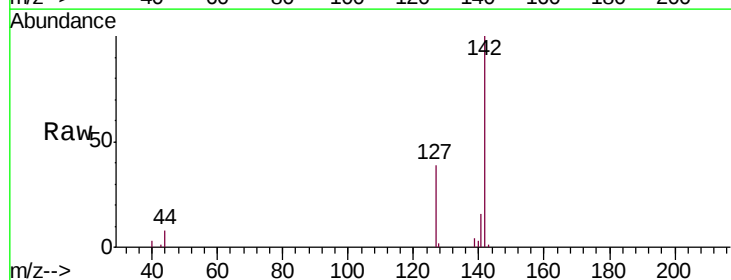
RT: 3.95 min Scan# 733

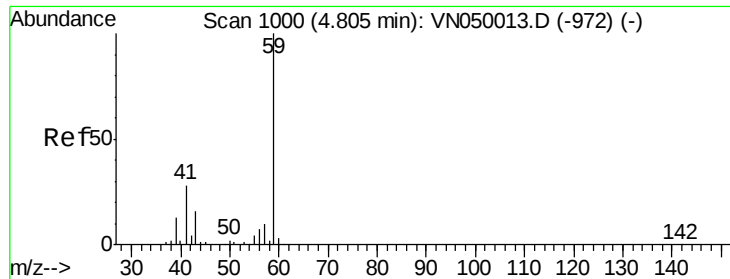
Delta R.T. -0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion:	142	Resp:	39849
Ion Ratio	Lower	Upper	
142	100		
127	43.7	33.4	50.2
141	15.9	11.6	17.4





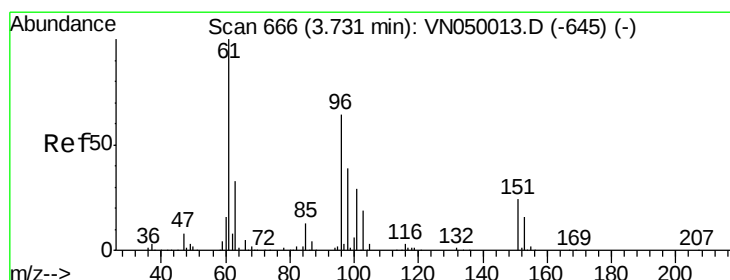
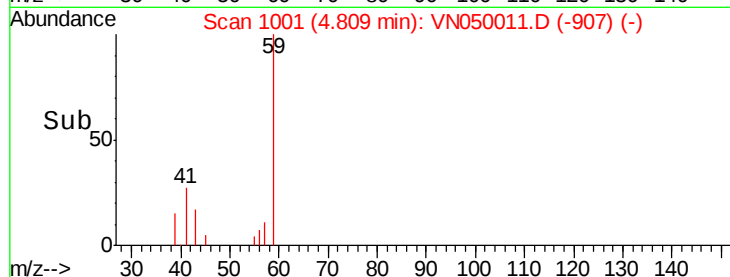
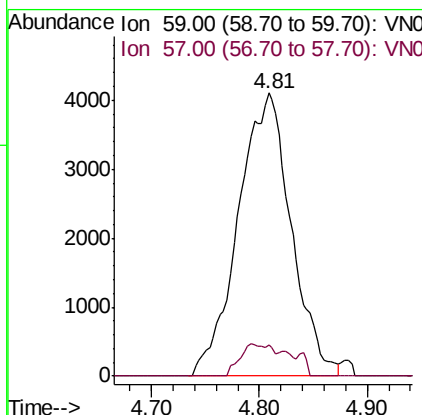
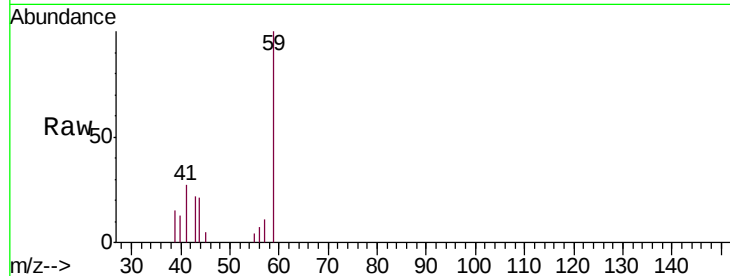
#11
Tert butyl alcohol
Concen: 25.89 ug/l
RT: 4.81 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	59	Resp	13996
Ion Ratio	100	Lower	Upper
57	7.4	8.5	12.7#

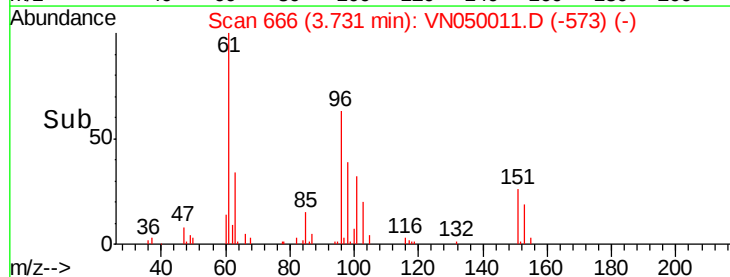
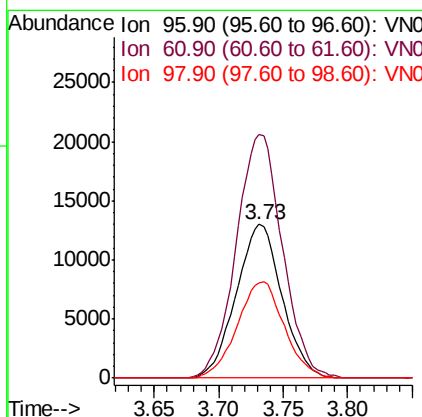
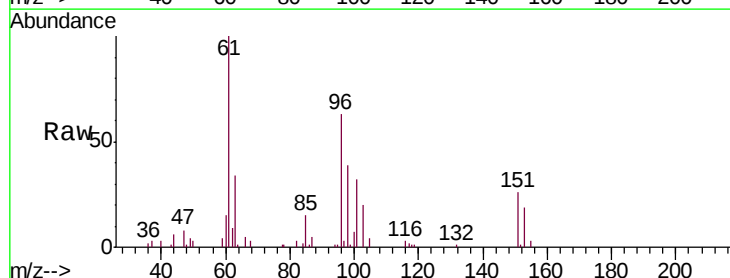
Manual Integrations
APPROVED

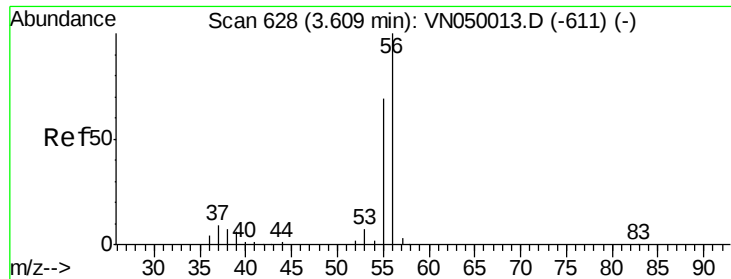
MMDadoda
7/26/2018 1:50:42 PM



#12
1,1-Dichloroethene
Concen: 5.34 ug/l
RT: 3.73 min Scan# 666
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	96	Resp	32210
Ion Ratio	100	Lower	Upper
61	158.3	124.4	186.6
98	61.5	48.3	72.5





#13

Acrolein

Concen: 51.97 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 19026

Ion Ratio Lower Upper

56 100

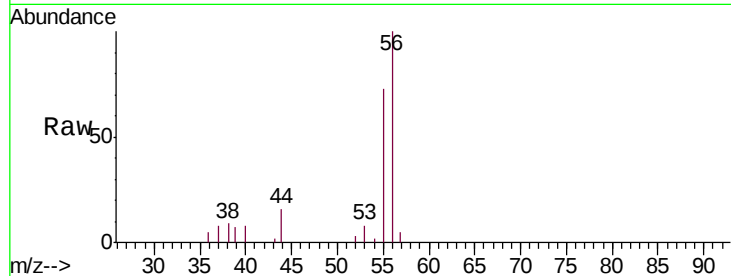
55 68.3 55.8 83.6

Manual Integrations

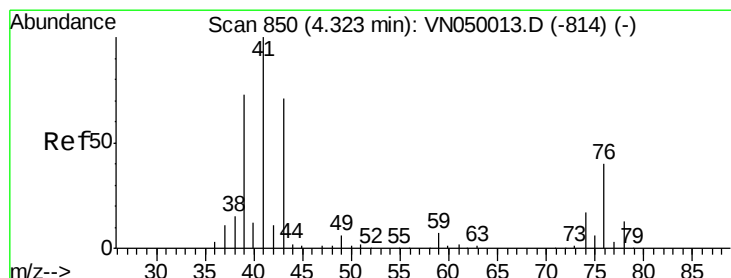
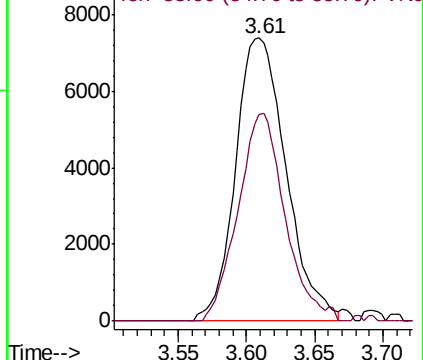
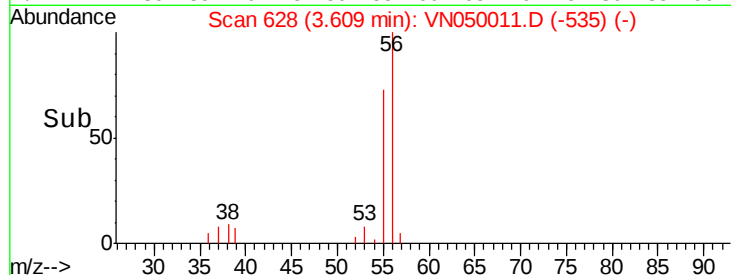
APPROVED

MMDadoda

7/26/2018 1:50:42 PM



Abundance Ion 56.00 (55.70 to 56.70): VN050011.D (-535) (-)



#14

Allyl chloride

Concen: 5.11 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

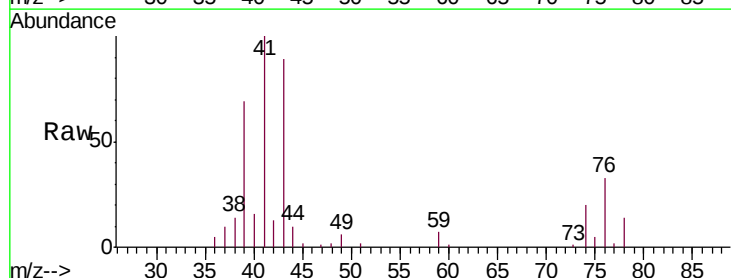
Tgt Ion: 41 Resp: 48269

Ion Ratio Lower Upper

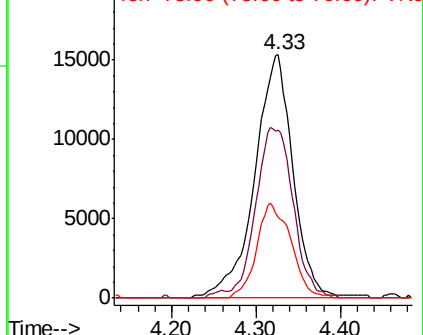
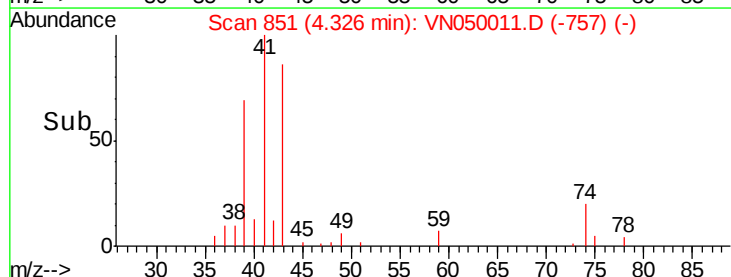
41 100

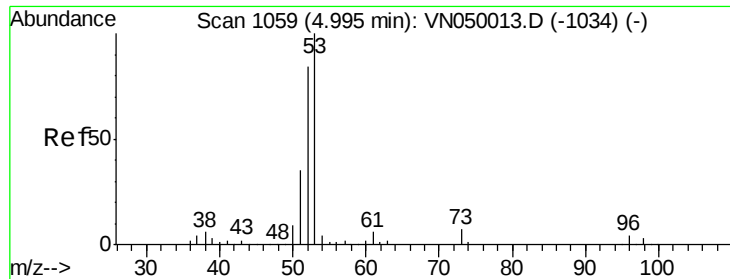
39 68.0 54.2 81.4

76 34.9 29.0 43.6



Abundance Ion 41.00 (40.70 to 41.70): VN050011.D (-757) (-)





#15

Acrylonitrile

Concen: 26.81 ug/l

RT: 5.00 min Scan# 1061

Delta R.T. 0.01 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

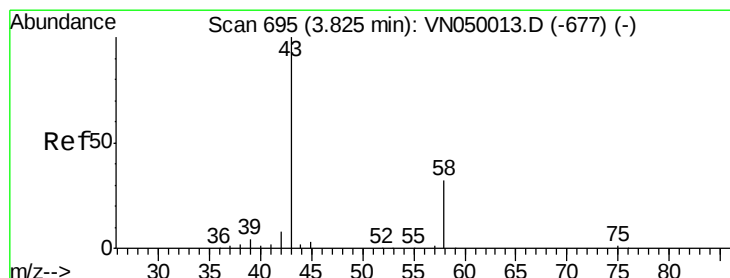
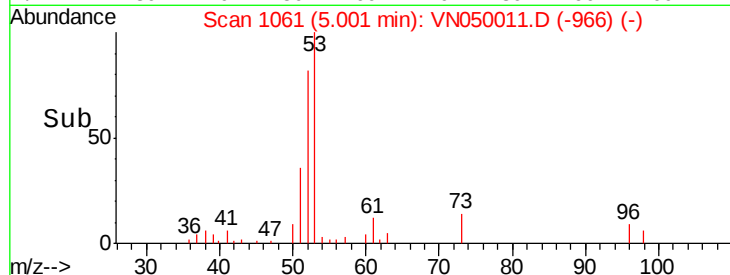
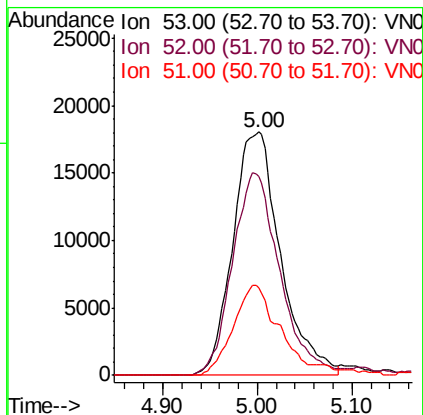
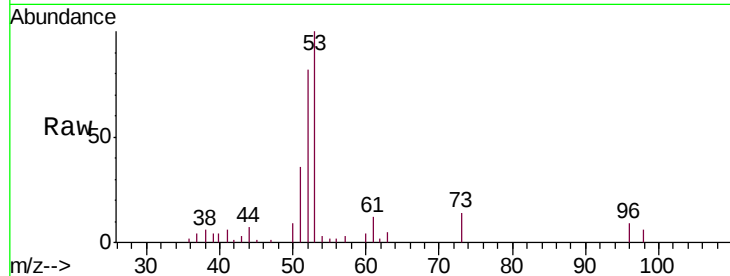
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	63416
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.2	99.2
51	35.0	29.3	43.9

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM



#16

Acetone

Concen: 27.23 ug/l

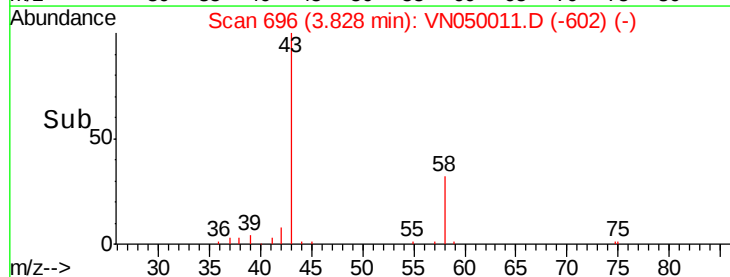
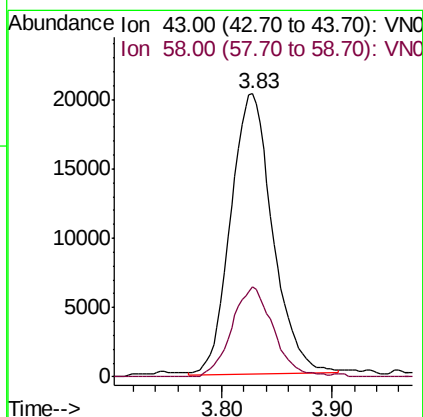
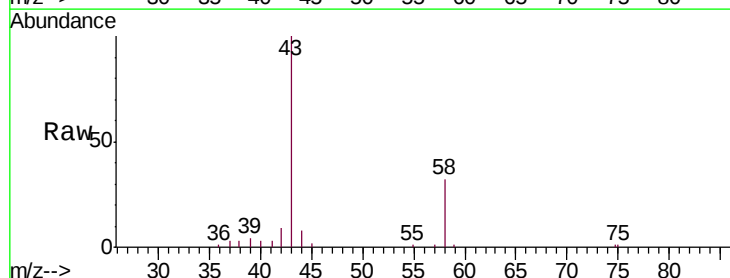
RT: 3.83 min Scan# 696

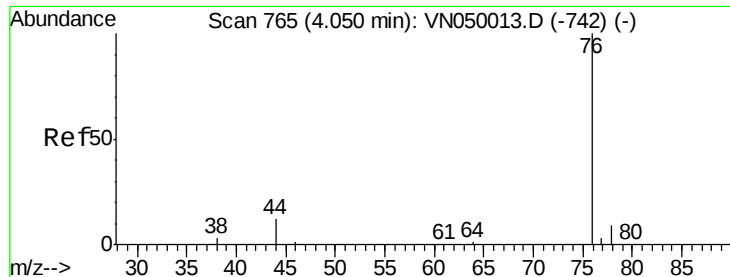
Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion:	43	Resp:	53406
Ion	Ratio	Lower	Upper
43	100		
58	32.1	25.8	38.8





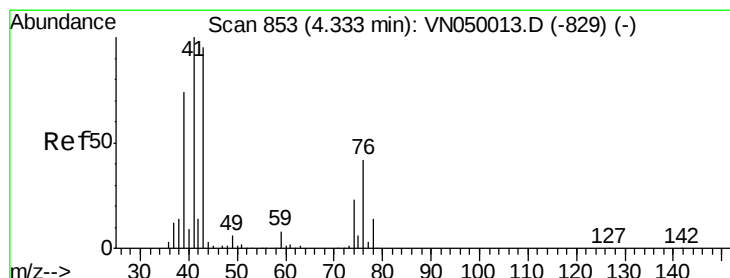
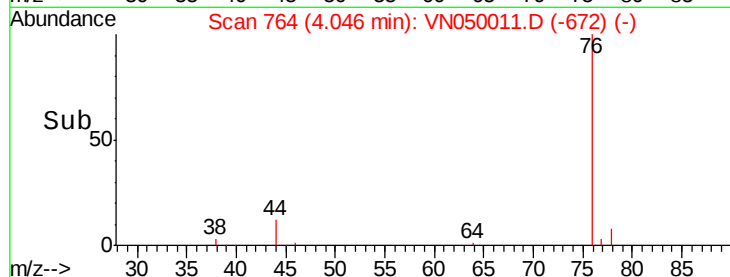
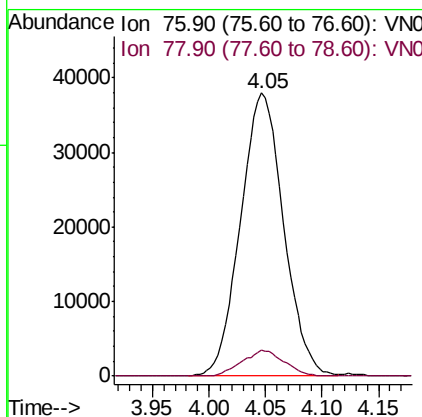
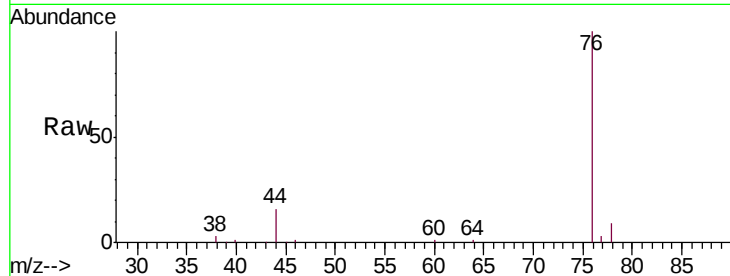
#17
Carbon Disulfide
Concen: 5.55 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.3	10.9

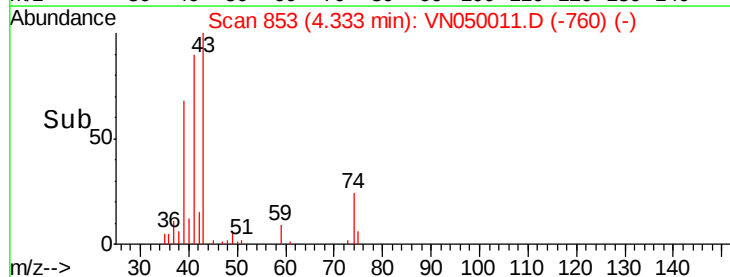
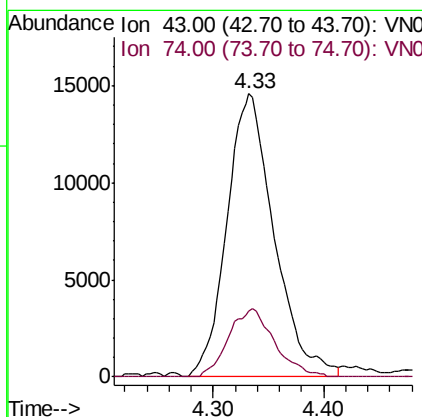
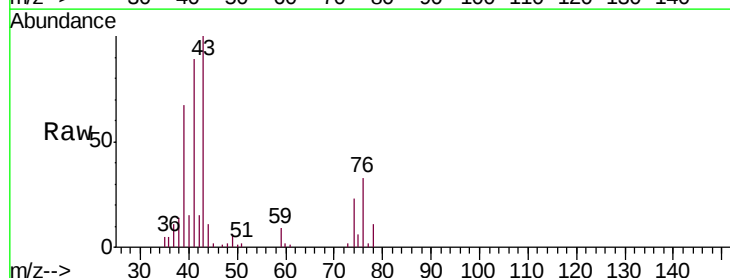
Manual Integrations
APPROVED

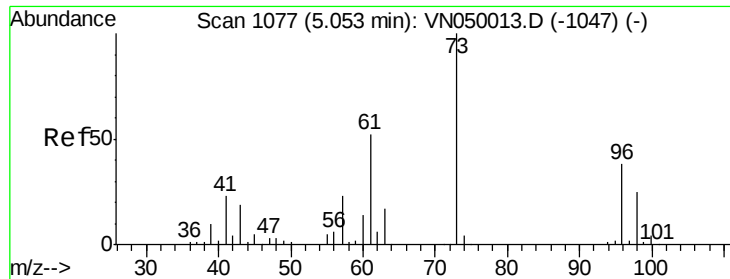
MMDadoda
7/26/2018 1:50:42 PM



#18
Methyl Acetate
Concen: 5.77 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.3	19.2	28.8





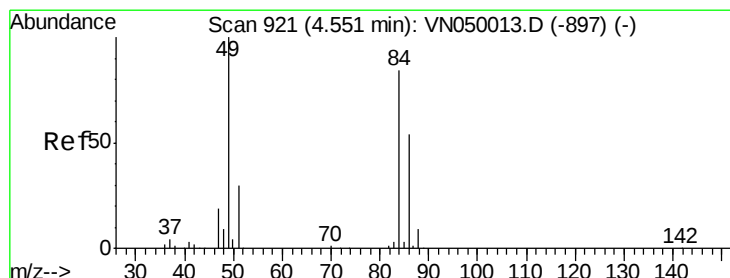
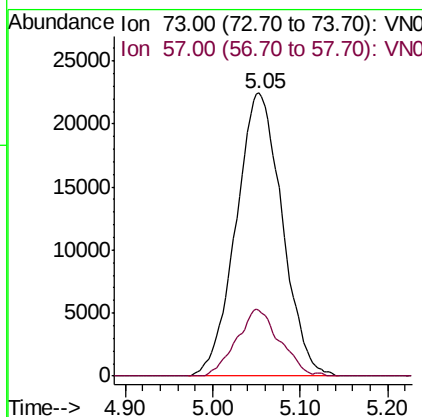
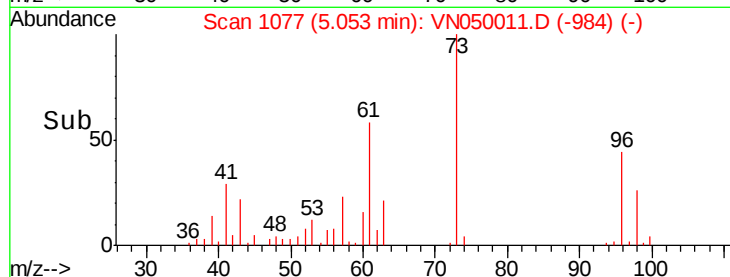
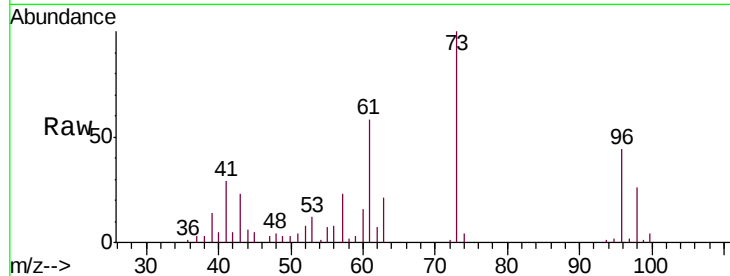
#19
Methvl tert-butvl Ether
Concen: 4.99 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 82010
Ion Ratio Lower Upper
73 100
57 23.1 18.0 27.0

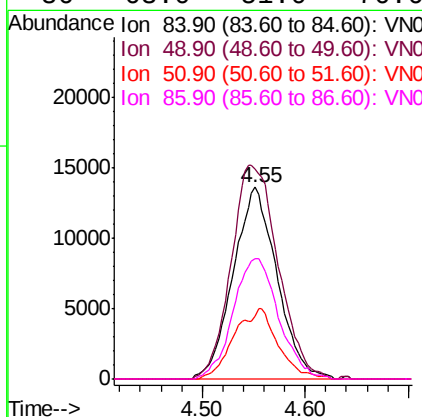
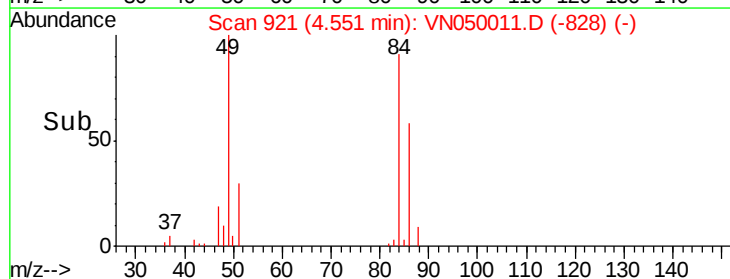
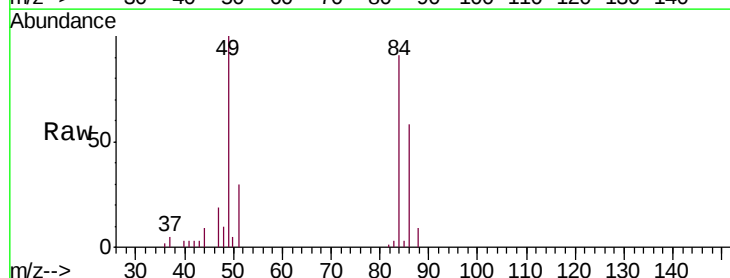
Manual Integrations
APPROVED

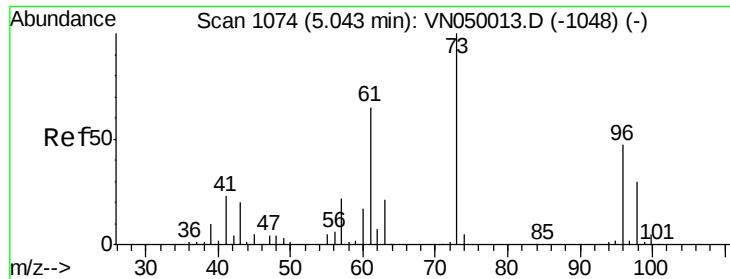
MMDadoda
7/26/2018 1:50:42 PM



#20
Methylene Chloride
Concen: 5.38 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion: 84 Resp: 40122
Ion Ratio Lower Upper
84 100
49 109.5 94.8 142.2
51 33.1 28.3 42.5
86 63.0 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 5.46 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 34721

Ion Ratio Lower Upper

96 100

61 126.7 110.7 166.1

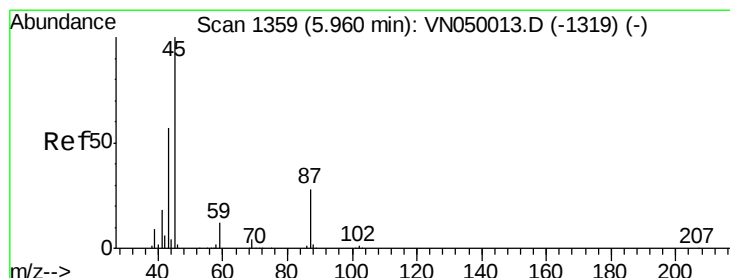
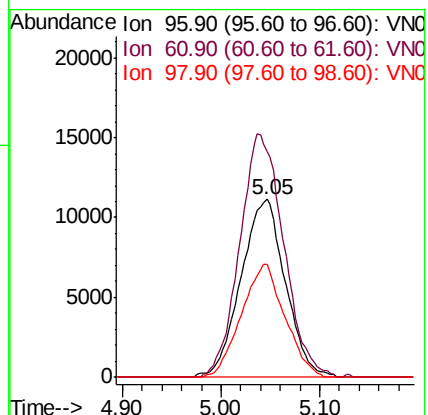
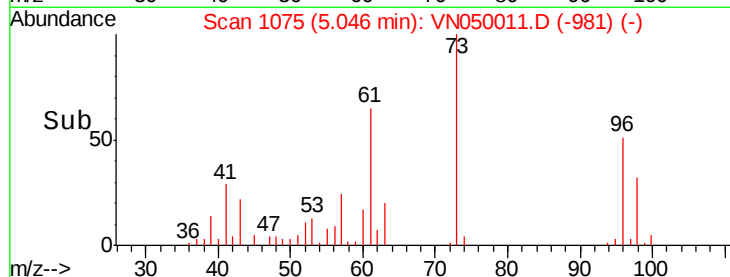
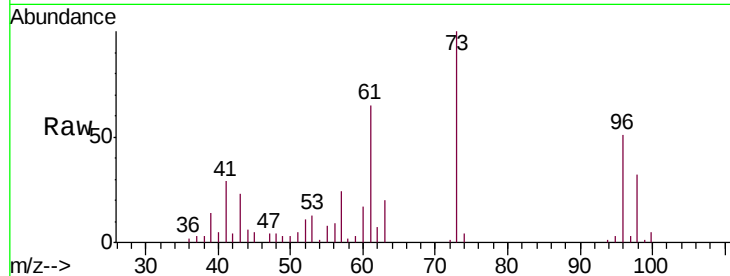
98 63.3 51.6 77.4

Manual Integrations

APPROVED

MMDadoda

7/26/2018 1:50:42 PM



#22

Diisopropyl ether

Concen: 5.00 ug/l

RT: 5.96 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion: 45 Resp: 95785

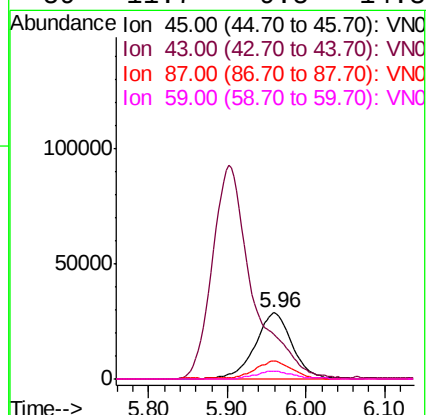
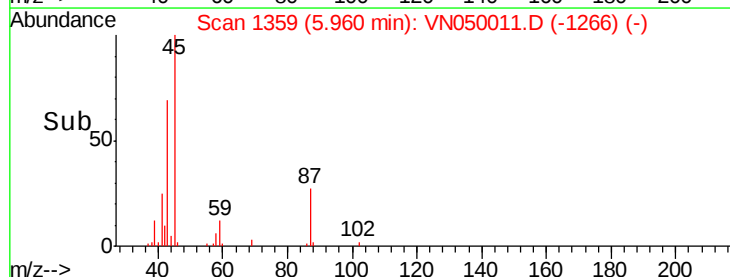
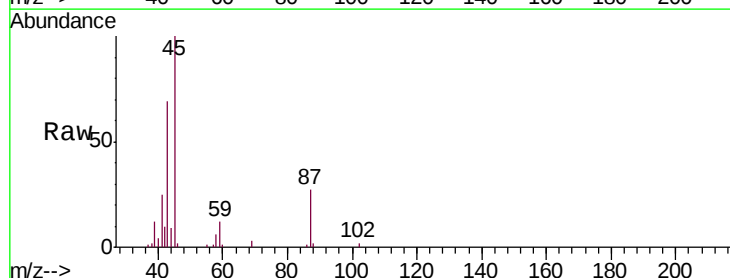
Ion Ratio Lower Upper

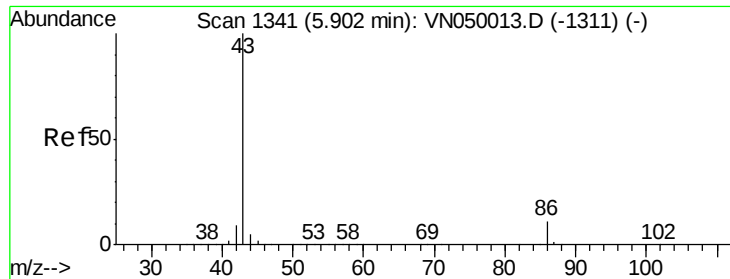
45 100

43 65.7 45.7 68.5

87 26.9 22.7 34.1

59 11.7 9.5 14.3





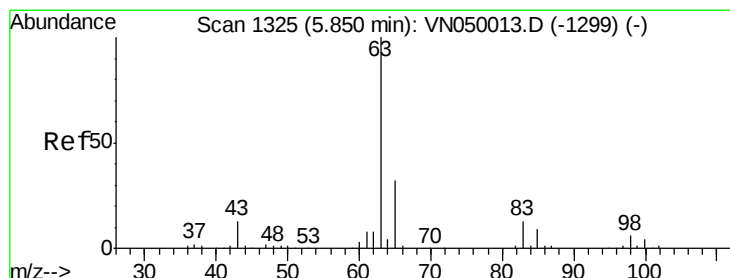
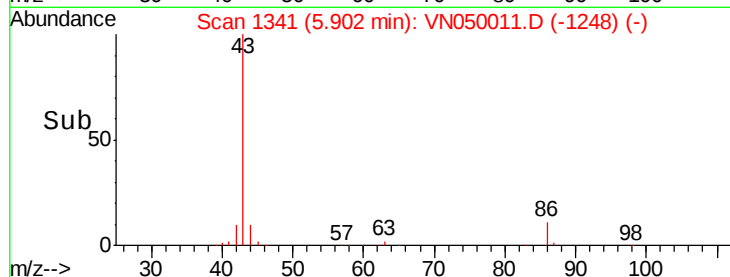
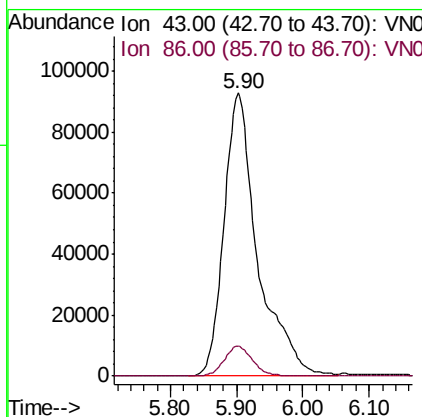
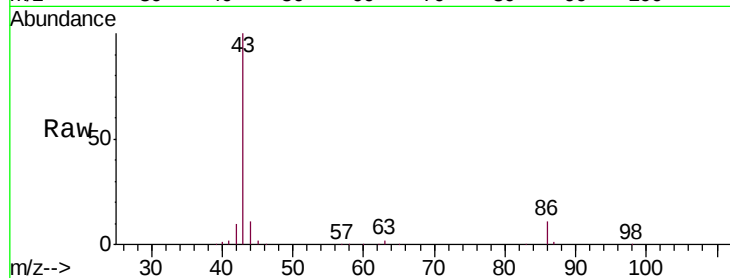
#23
 Vinyl Acetate
 Concen: 24.45 ug/l
 RT: 5.90 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	43	Resp	328205
Ion Ratio	100	Lower	Upper
43	100		
86	10.8	8.6	13.0

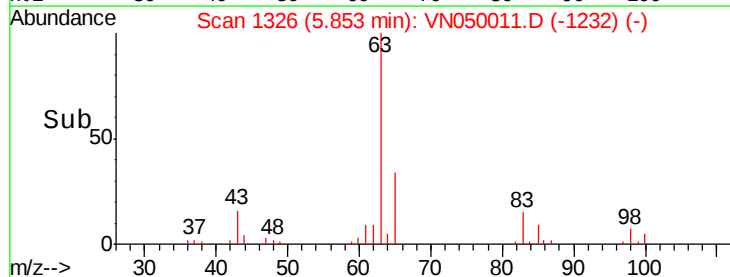
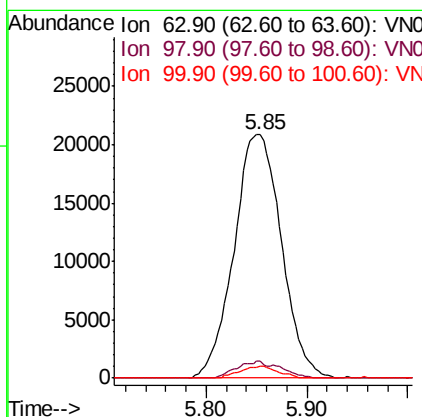
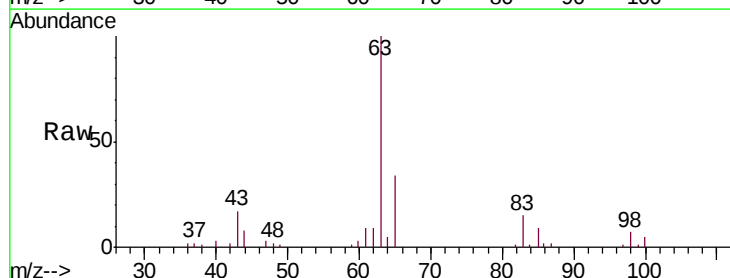
Manual Integrations
 APPROVED

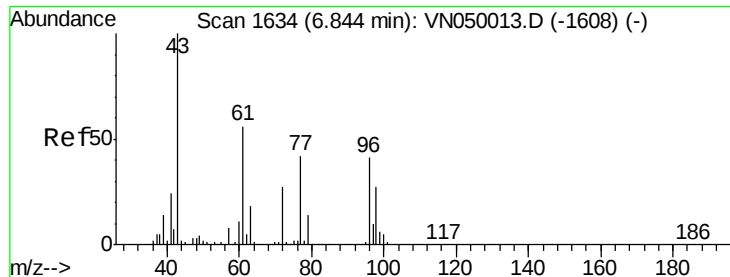
MMDadoda
 7/26/2018 1:50:42 PM



#24
 1,1-Dichloroethane
 Concen: 5.51 ug/l
 RT: 5.85 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion	63	Resp	68135
Ion Ratio	100	Lower	Upper
63	100		
98	6.8	3.3	9.8
100	4.8	2.1	6.3





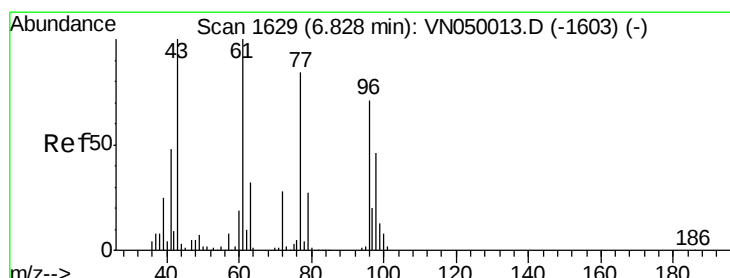
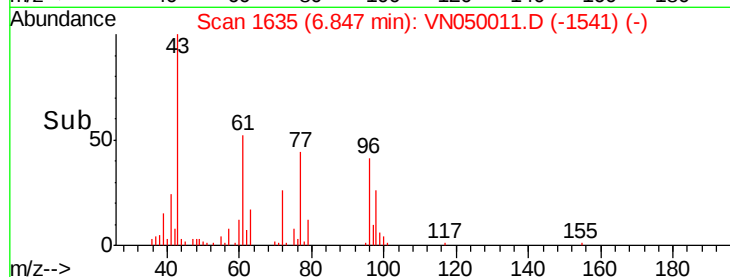
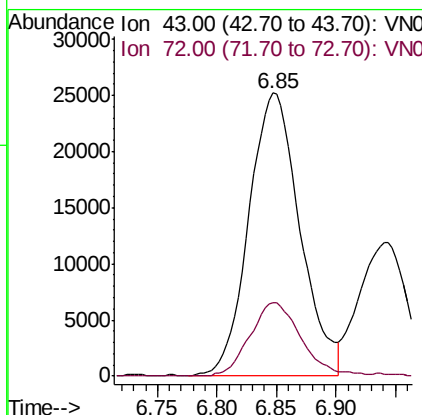
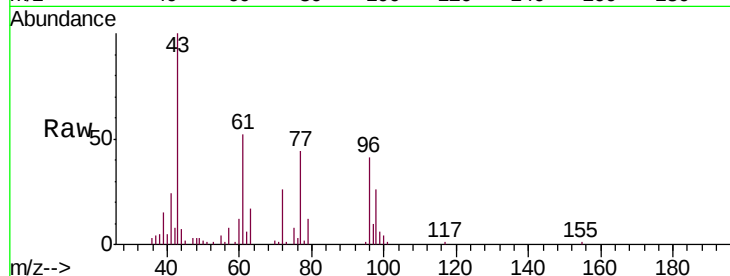
#25
2-Butanone
Concen: 26.82 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 75158
Ion Ratio Lower Upper
43 100
72 26.0 21.5 32.3

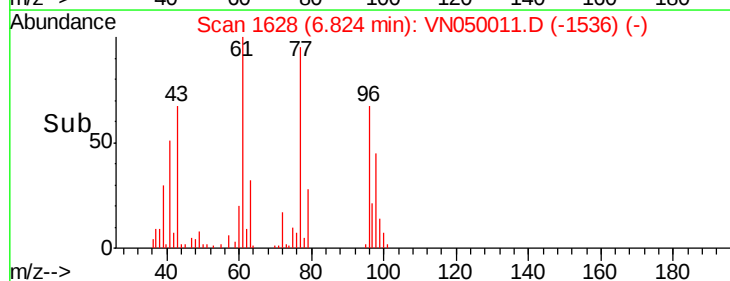
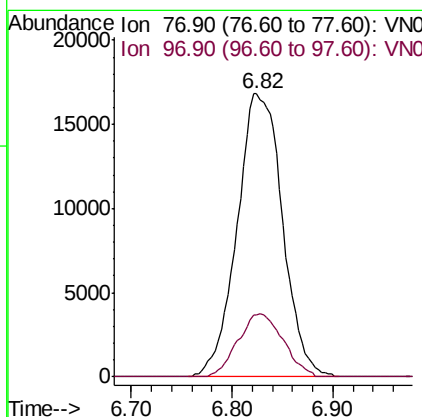
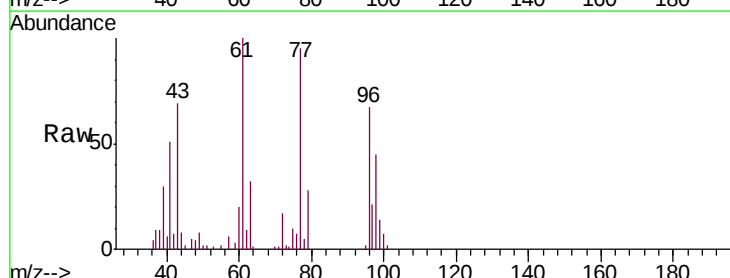
Manual Integrations
APPROVED

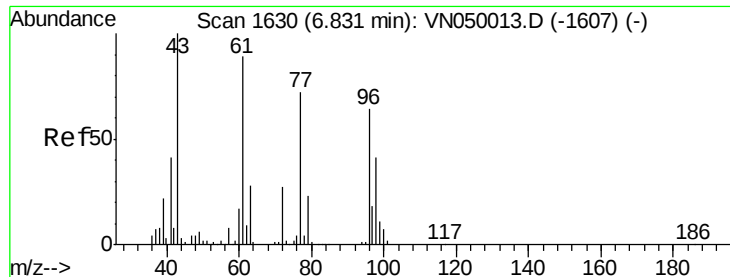
MMDadoda
7/26/2018 1:50:42 PM



#26
2,2-Dichloropropane
Concen: 5.49 ug/l
RT: 6.82 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion: 77 Resp: 52556
Ion Ratio Lower Upper
77 100
97 22.2 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 5.41 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 37635

Ion Ratio Lower Upper

96 100

61 143.9 0.0 285.0

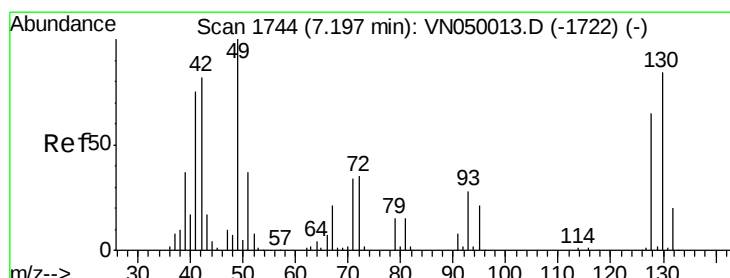
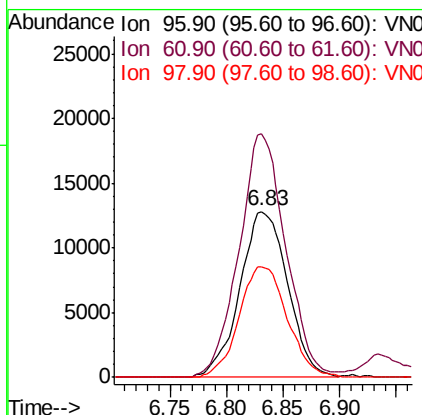
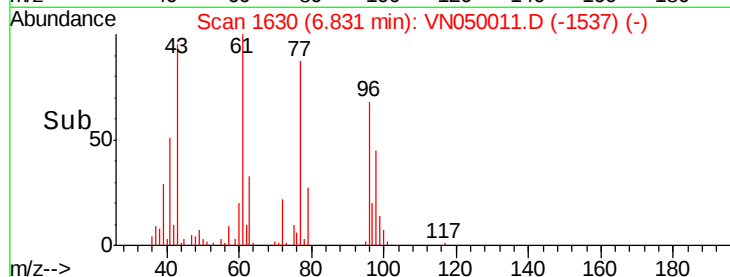
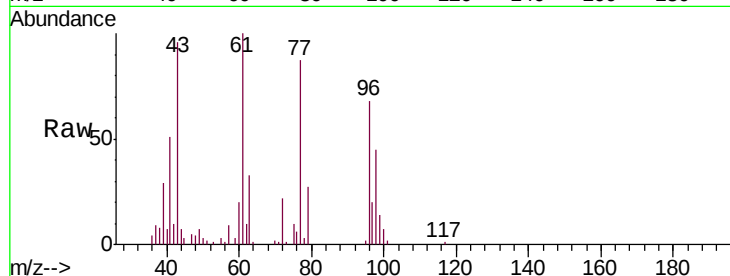
98 67.3 0.0 129.2

Manual Integrations

APPROVED

MMDadoda

7/26/2018 1:50:42 PM



#28

Bromochloromethane

Concen: 5.66 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

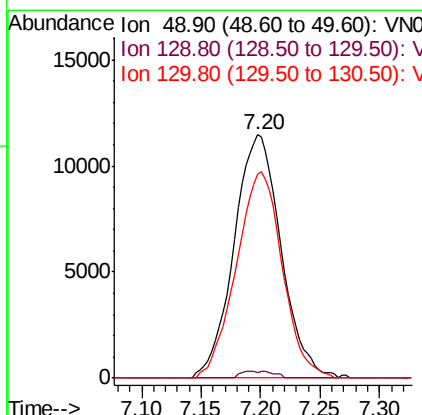
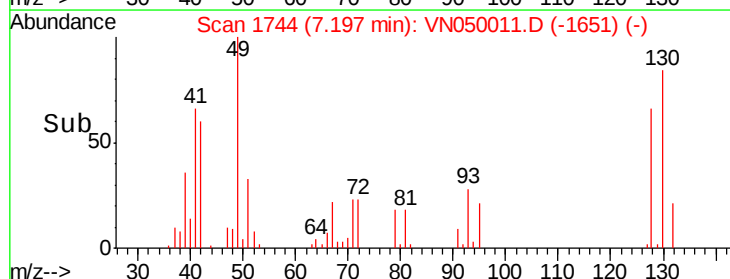
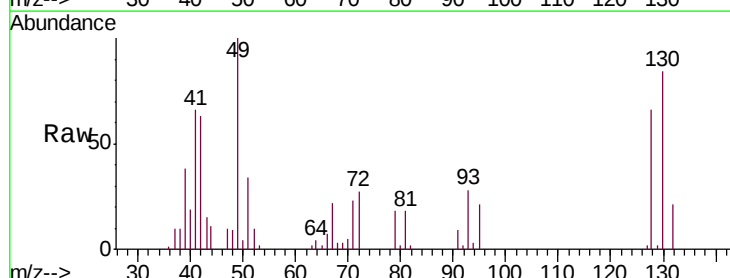
Tgt Ion: 49 Resp: 31346

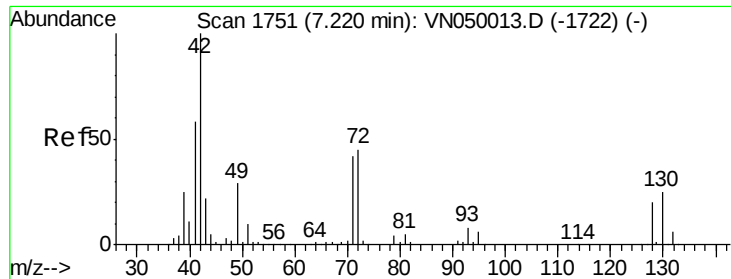
Ion Ratio Lower Upper

49 100

129 1.1 0.0 4.0

130 83.1 66.3 99.5





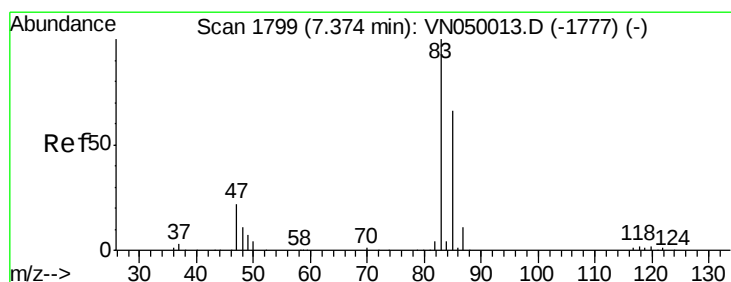
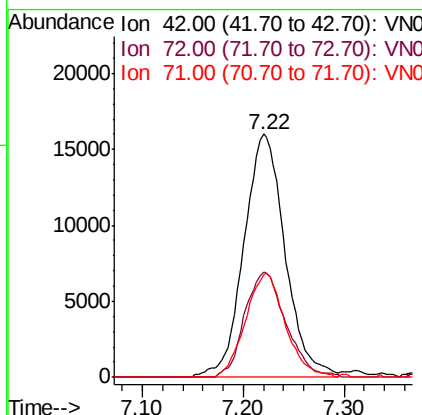
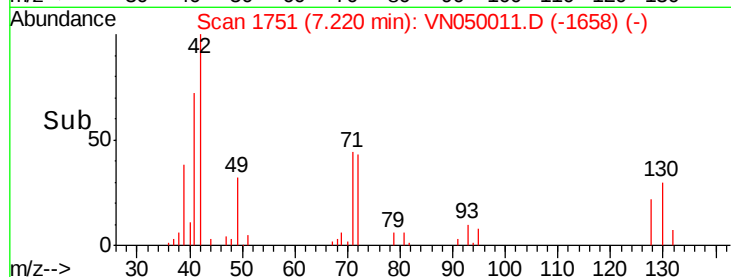
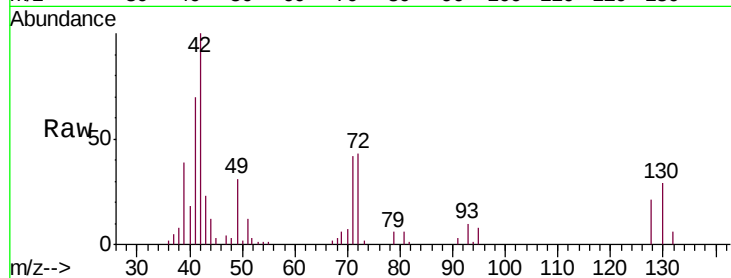
#29
Tetrahydrofuran
Concen: 25.76 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.9	53.9
71	41.1	33.7	50.5

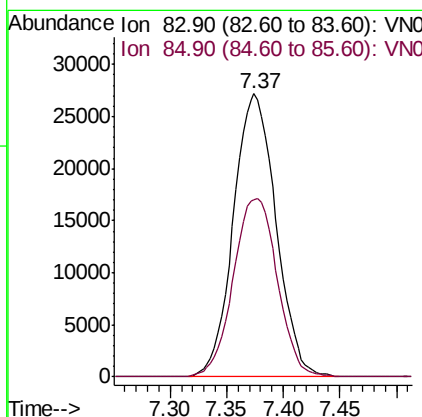
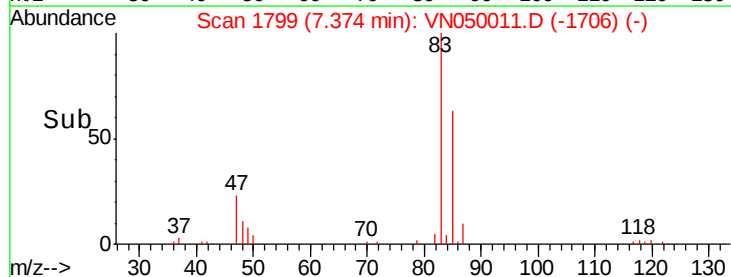
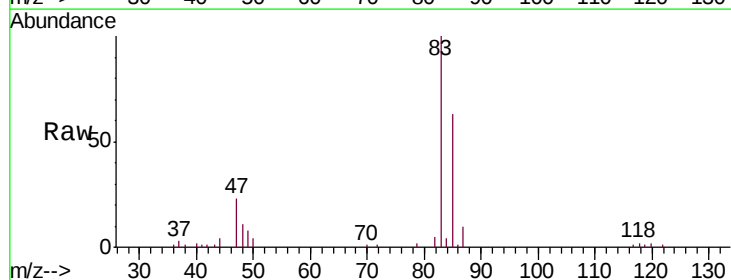
Manual Integrations
APPROVED

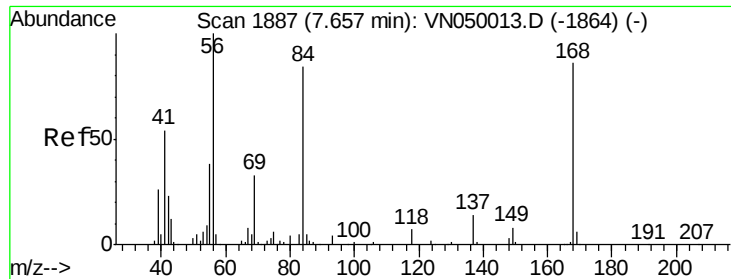
MMDadoda
7/26/2018 1:50:42 PM



#30
Chloroform
Concen: 5.62 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.7	52.5	78.7





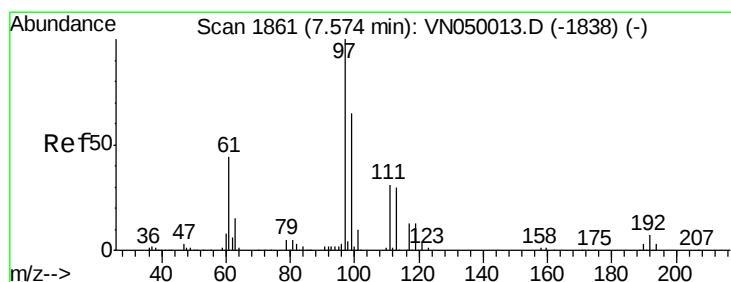
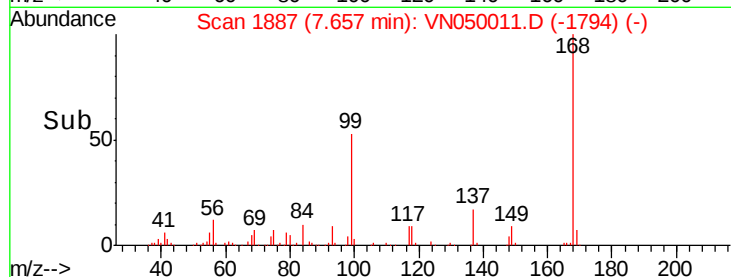
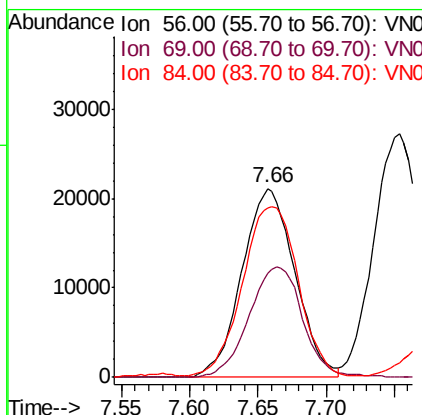
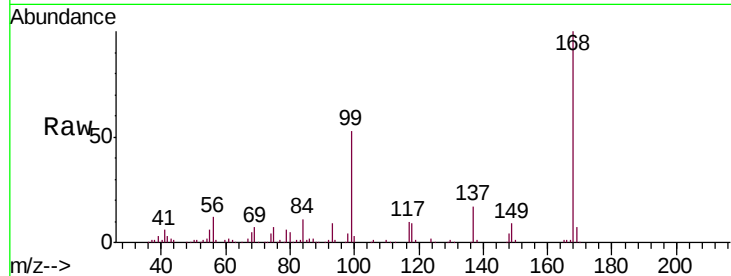
#31
Cyclohexane
Concen: 4.92 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	55.2	26.2	39.4#
84	88.6	67.4	101.0

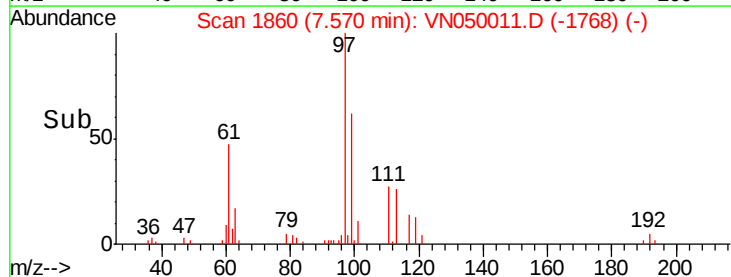
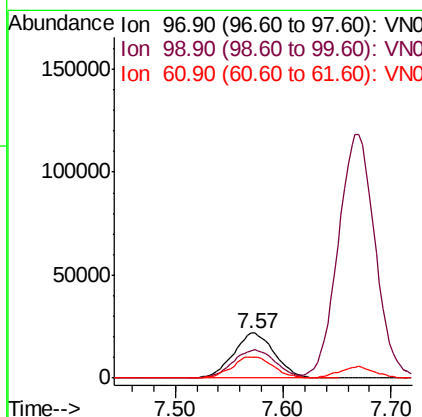
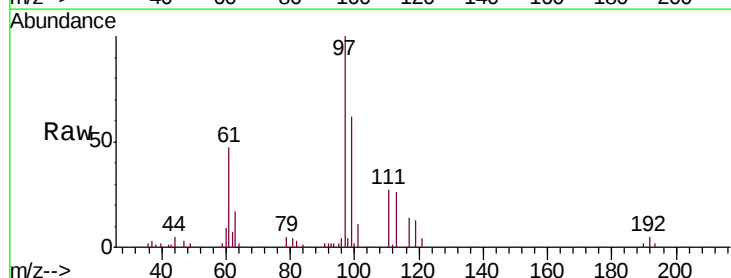
Manual Integrations
APPROVED

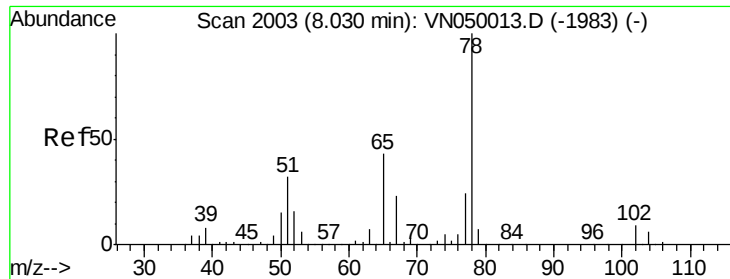
MMDadoda
7/26/2018 1:50:42 PM



#32
1,1,1-Trichloroethane
Concen: 5.31 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.4	77.0
61	47.3	35.4	53.0





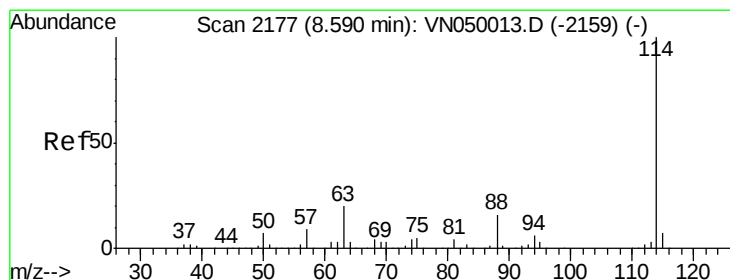
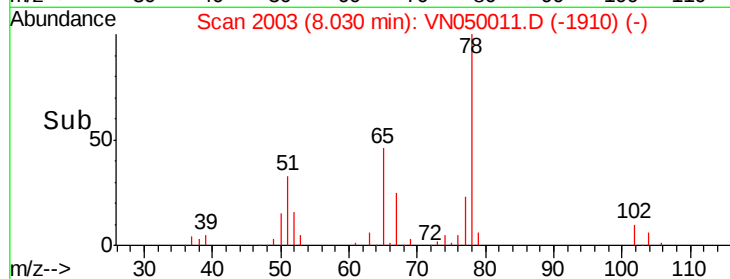
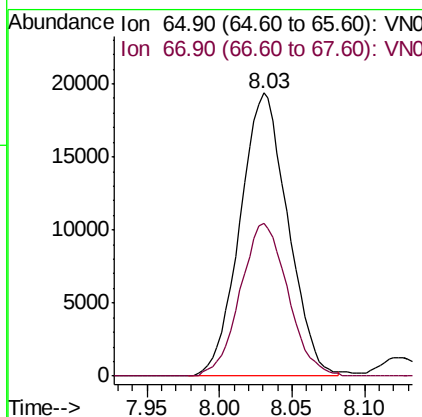
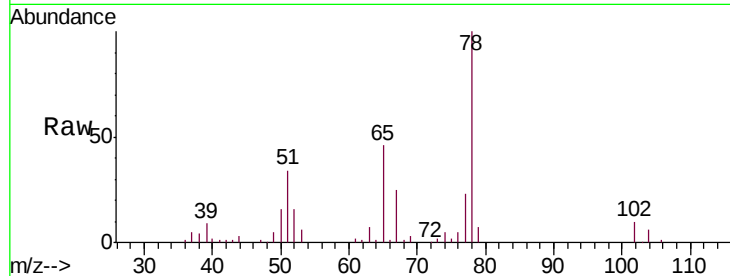
#33
 1,2-Dichloroethane-d4
 Concen: 5.92 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 65 Resp: 44572
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.4

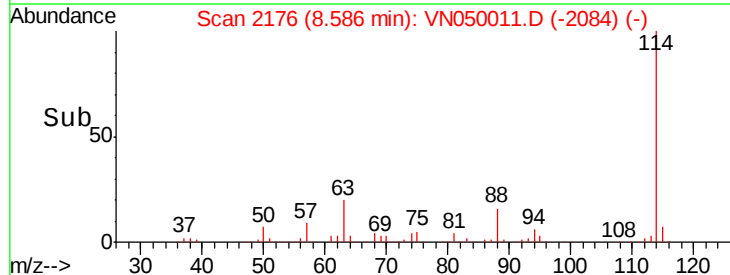
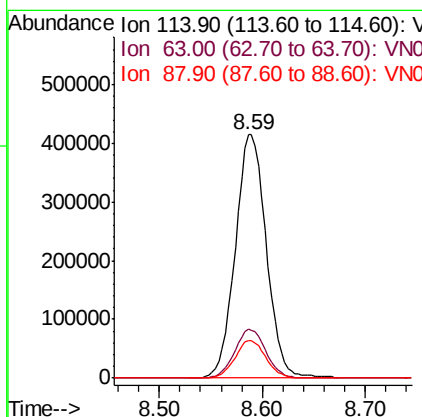
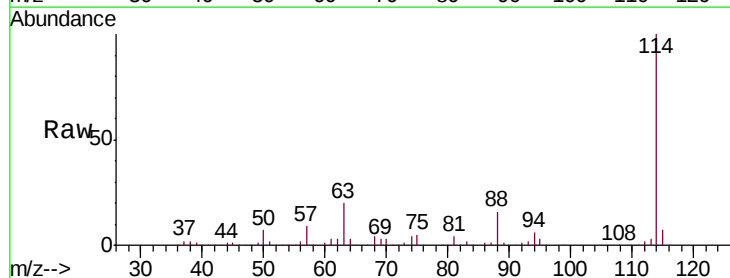
Manual Integrations
 APPROVED

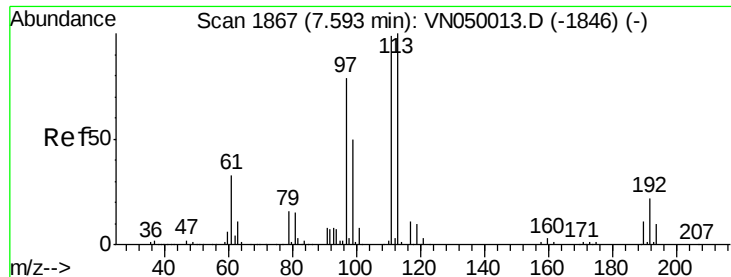
MMDadoda
 7/26/2018 1:50:42 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion: 114 Resp: 869633
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 15.6 0.0 31.2





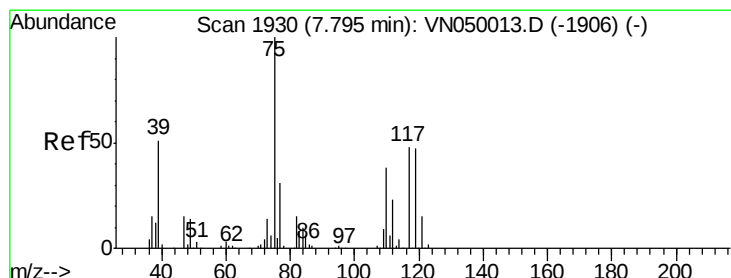
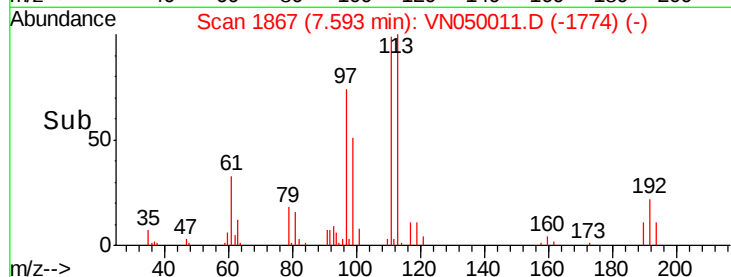
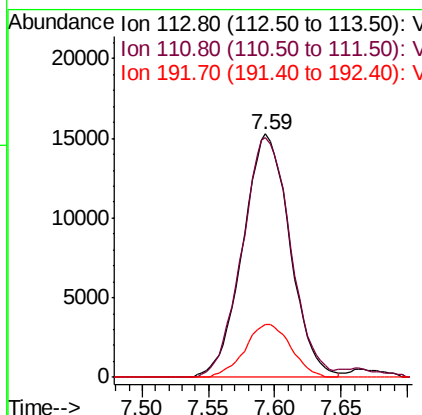
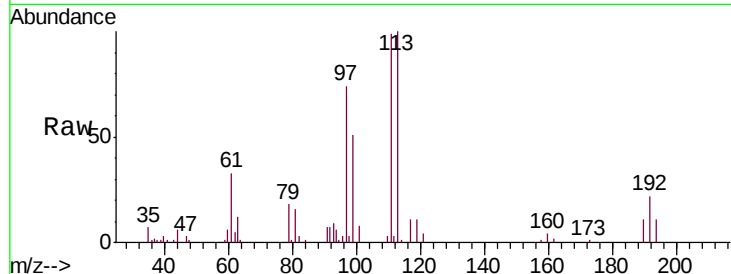
#35
 Dibromofluoromethane
 Concen: 5.18 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.0	80.7	121.1
192	21.2	17.8	26.6

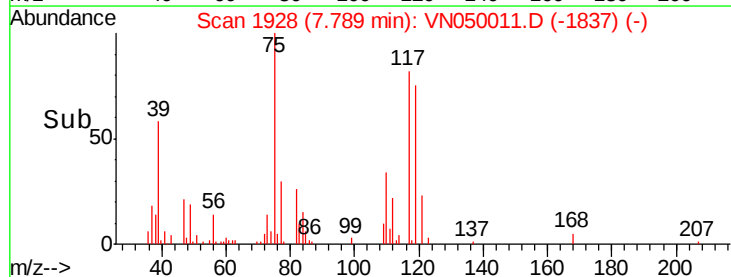
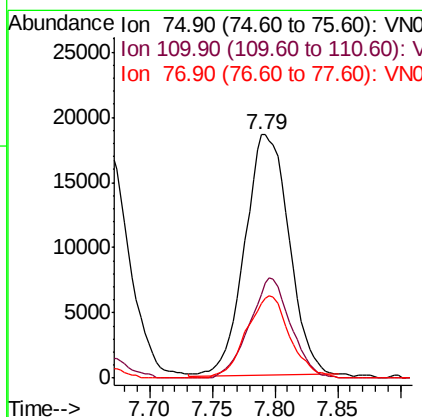
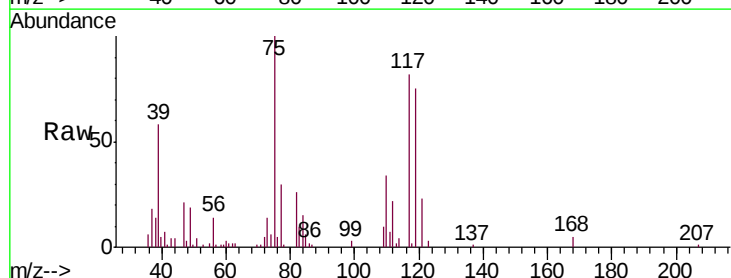
Manual Integrations
 APPROVED

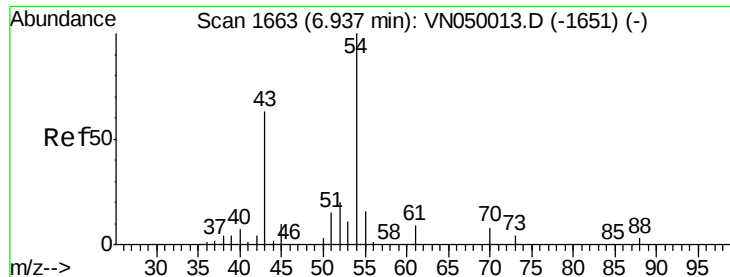
MMDadoda
 7/26/2018 1:50:42 PM



#36
 1,1-Dichloropropene
 Concen: 4.66 ug/l
 RT: 7.79 min Scan# 1928
 Delta R.T. -0.01 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.6	18.4	55.2
77	33.4	25.3	37.9





#37

Ethyl Acetate

Concen: 5.04 ug/l

RT: 6.94 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

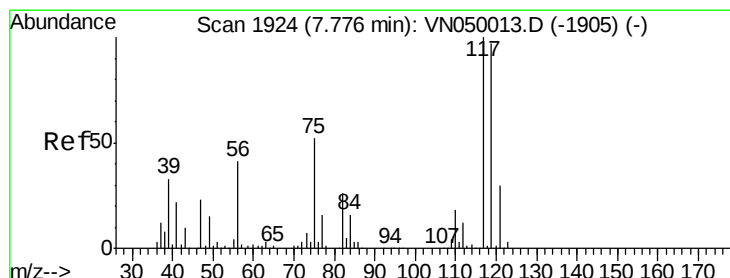
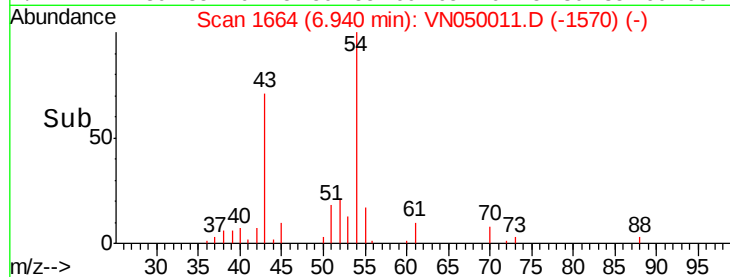
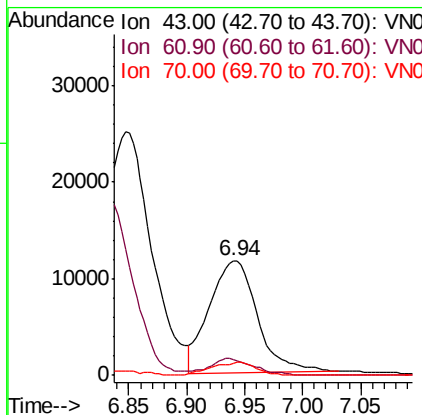
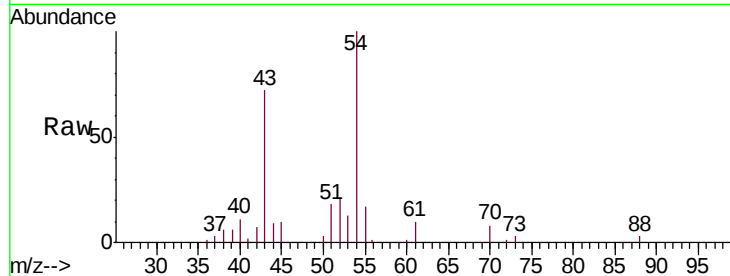
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	33542
Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.8	17.8
70	10.7	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM



#38

Carbon Tetrachloride

Concen: 5.04 ug/l

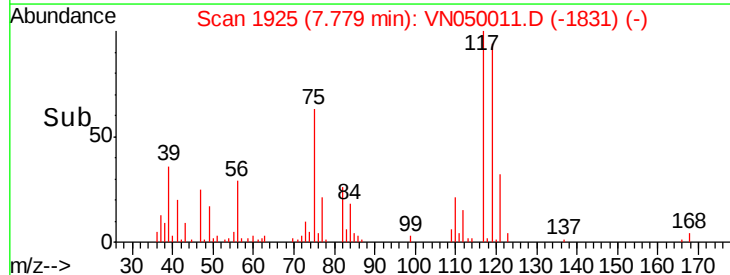
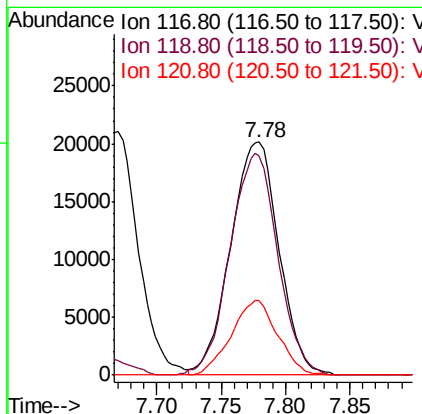
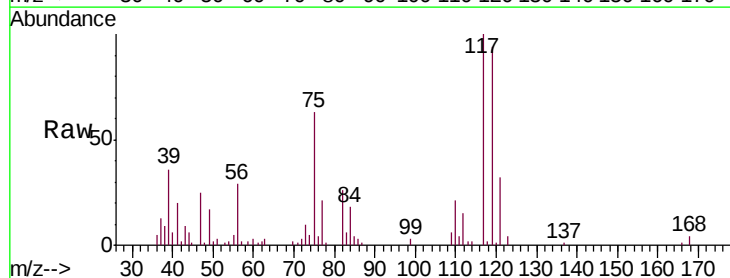
RT: 7.78 min Scan# 1925

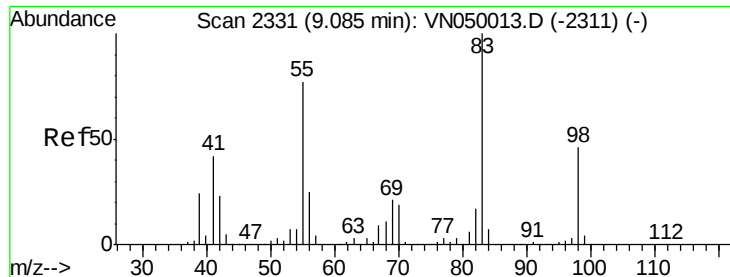
Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion:	117	Resp:	52484
Ion	Ratio	Lower	Upper
117	100		
119	94.0	77.4	116.0
121	31.8	23.9	35.9





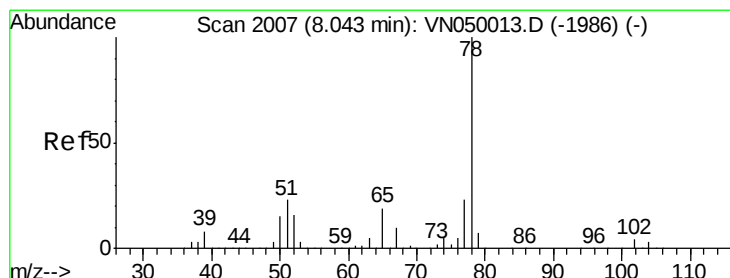
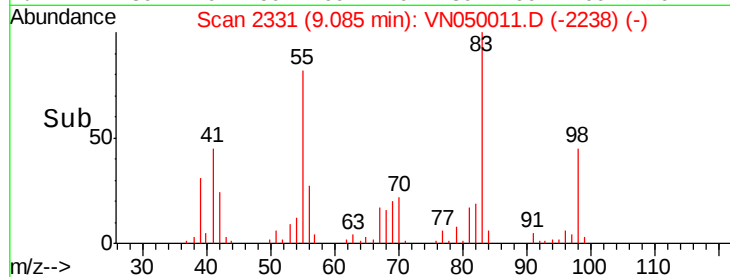
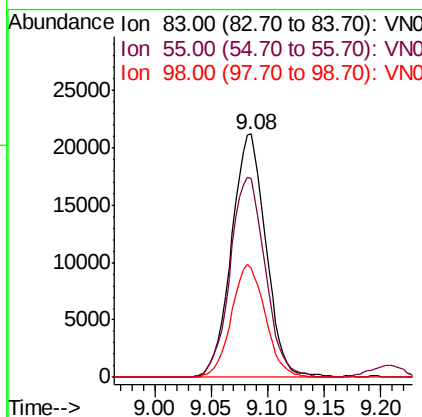
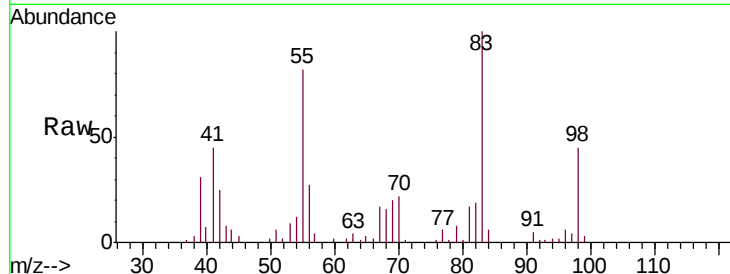
#39
Methvlcvclohexane
Concen: 4.46 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.6	61.8	92.8
98	44.8	36.5	54.7

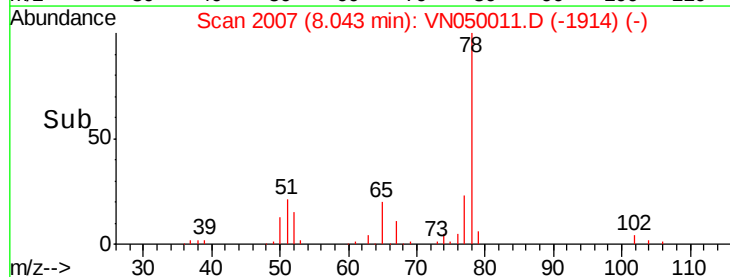
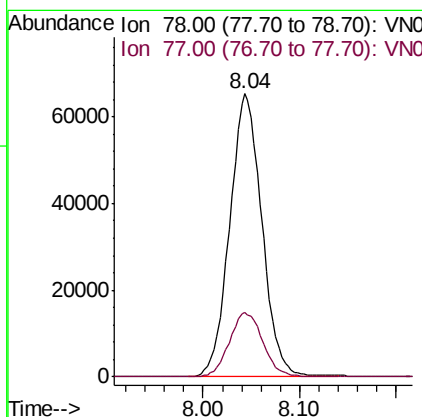
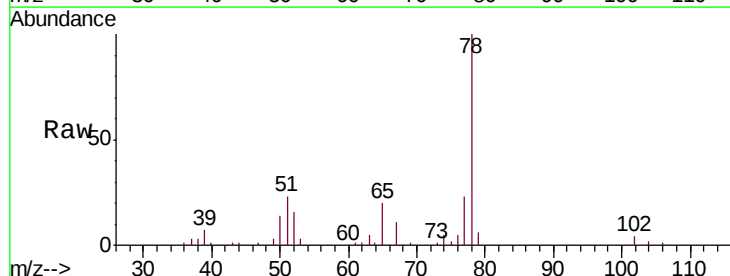
Manual Integrations
APPROVED

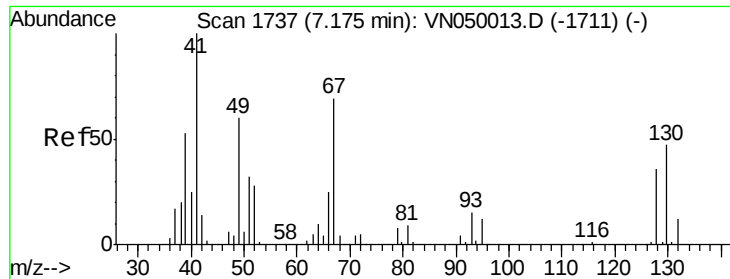
MMDadoda
7/26/2018 1:50:42 PM



#40
Benzene
Concen: 5.09 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.7	28.1





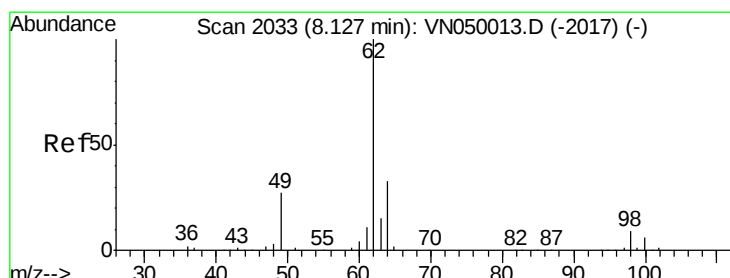
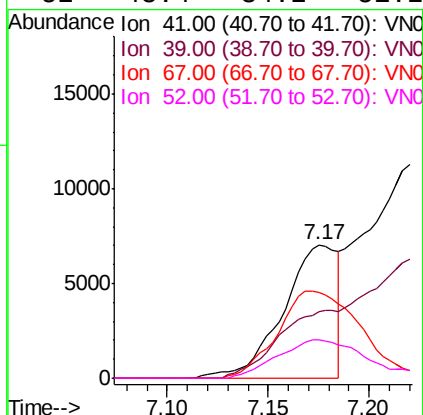
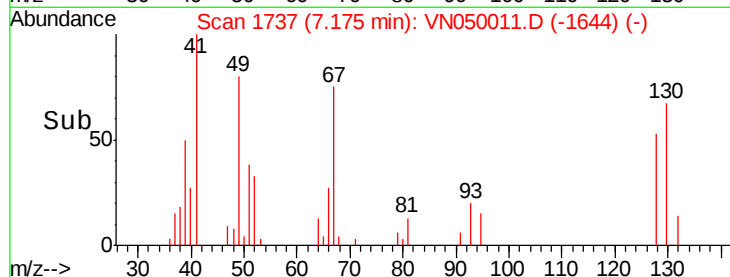
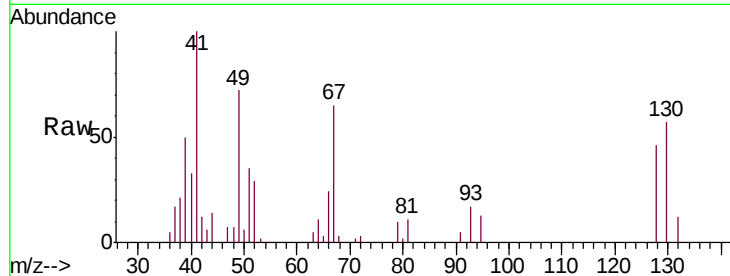
#41
Methacrylonitrile
Concen: 4.01 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.8	83.6#
67	102.5	84.3	126.5
52	48.4	34.2	51.2

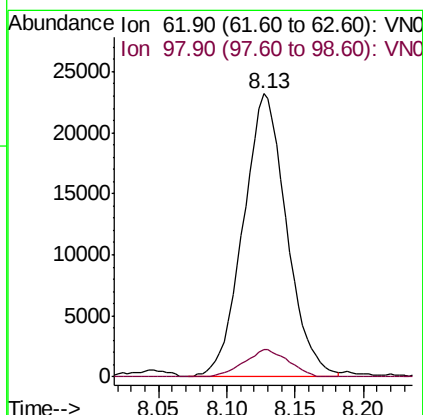
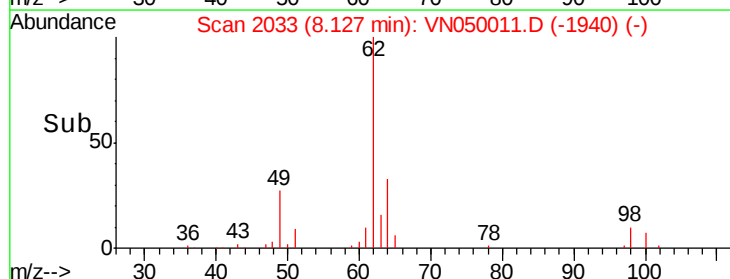
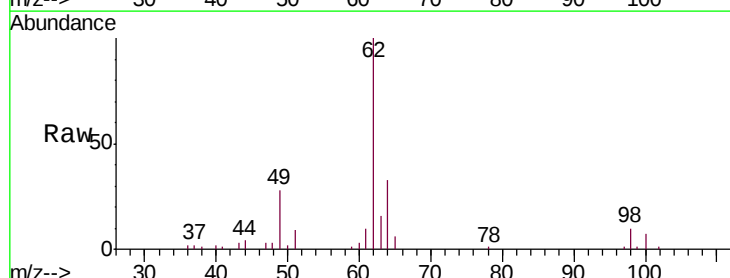
Manual Integrations
APPROVED

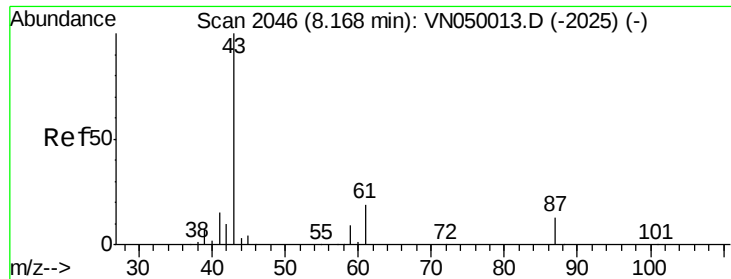
MMDadoda
7/26/2018 1:50:42 PM



#42
1,2-Dichloroethane
Concen: 5.23 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	18.8





#43

Isopropyl Acetate

Concen: 7.03 ug/l

RT: 8.17 min Scan# 2048

Delta R.T. 0.01 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

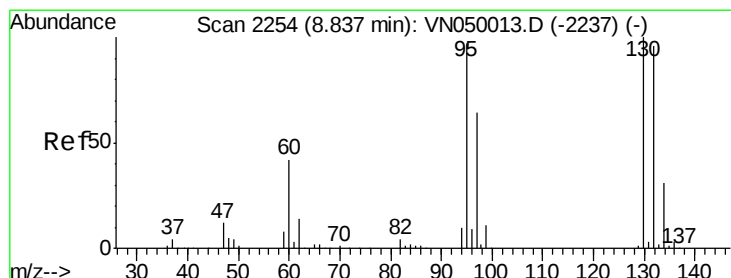
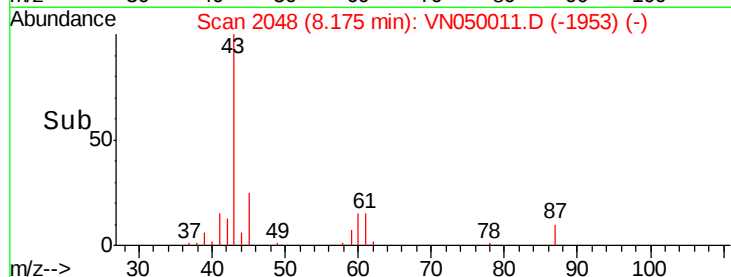
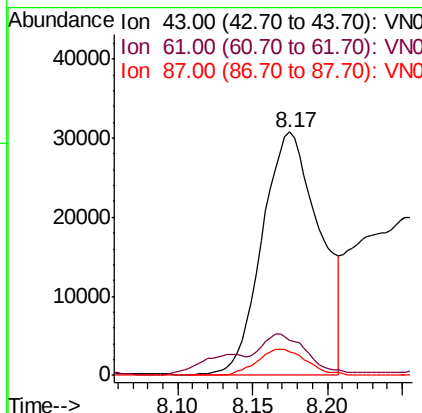
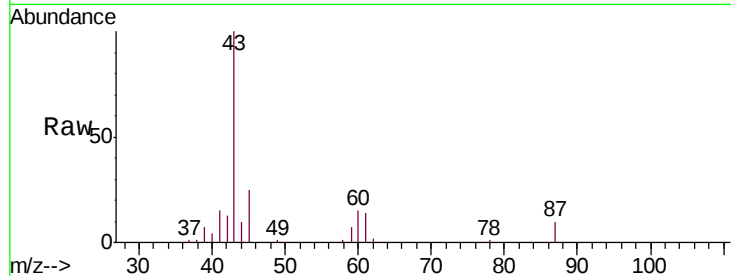
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	82280
Ion	Ratio	Lower	Upper
43	100		
61	12.8	15.8	23.6#
87	9.1	10.3	15.5#

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM



#44

Trichloroethene

Concen: 5.24 ug/l

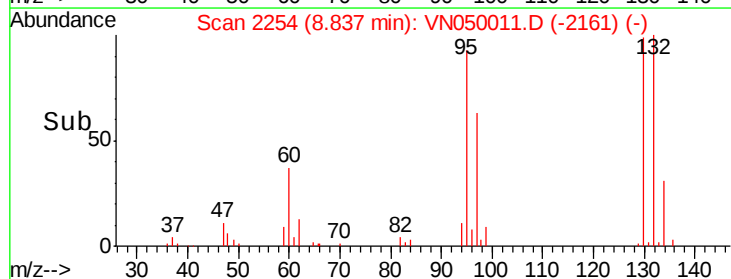
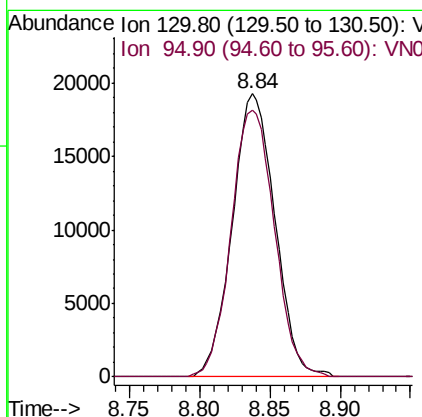
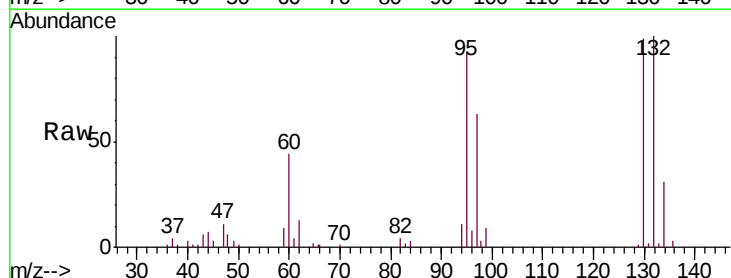
RT: 8.84 min Scan# 2254

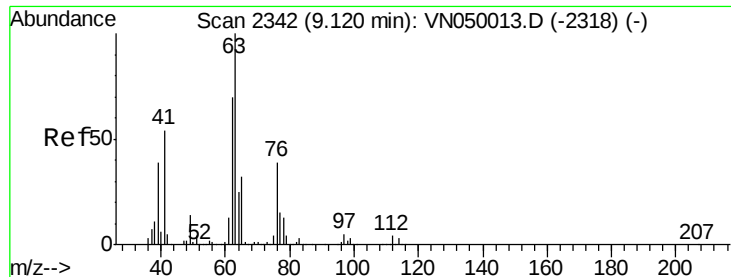
Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion:	130	Resp:	40773
Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	194.6





#45

1,2-Dichloropropane

Concen: 5.07 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 40411

Ion Ratio Lower Upper

63 100

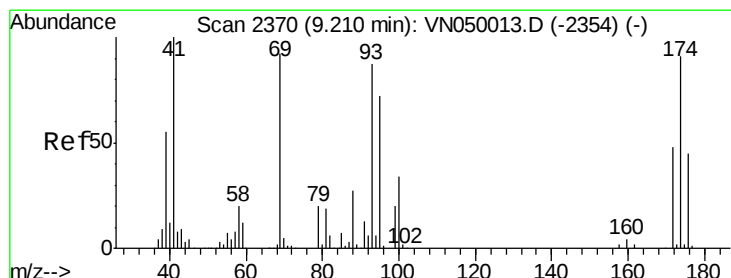
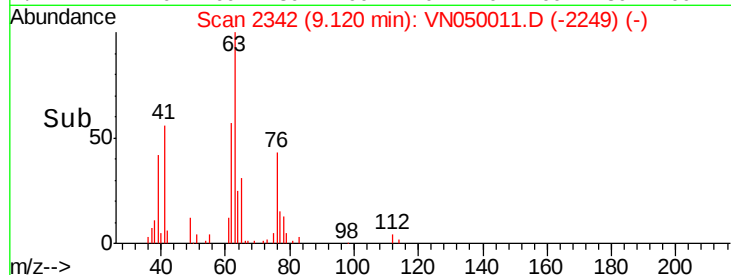
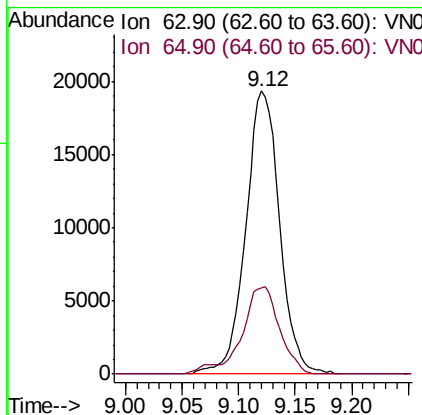
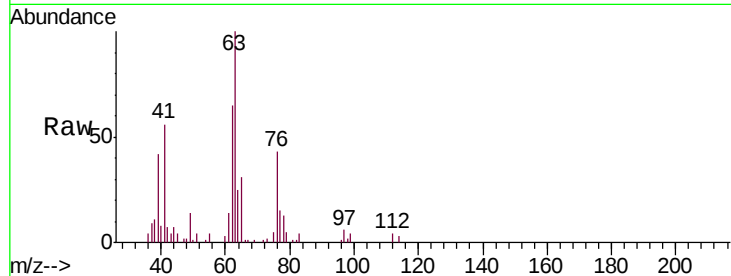
65 30.6 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

7/26/2018 1:50:42 PM



#46

Dibromomethane

Concen: 5.06 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

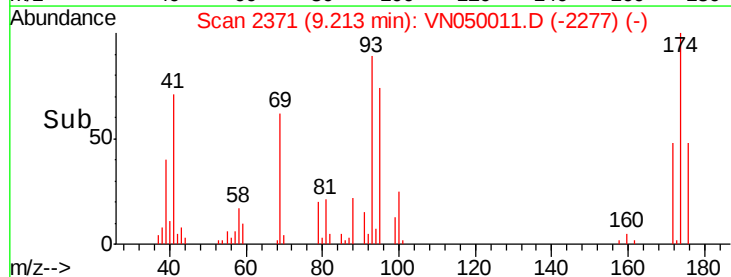
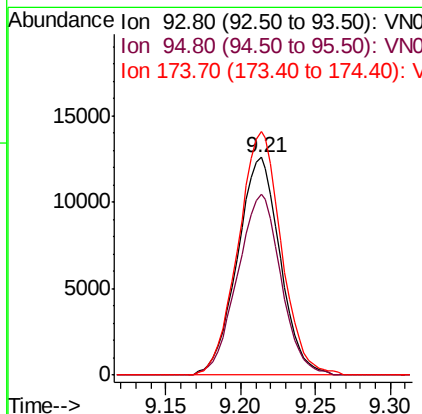
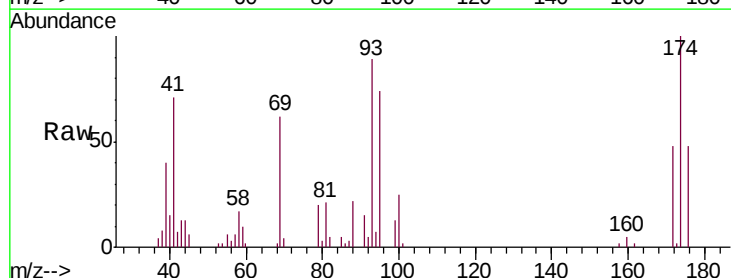
Tgt Ion: 93 Resp: 25066

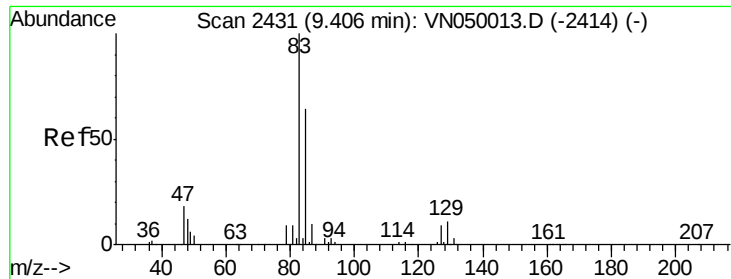
Ion Ratio Lower Upper

93 100

95 84.3 66.6 100.0

174 112.7 87.1 130.7





#47

Bromodichloromethane

Concen: 5.14 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

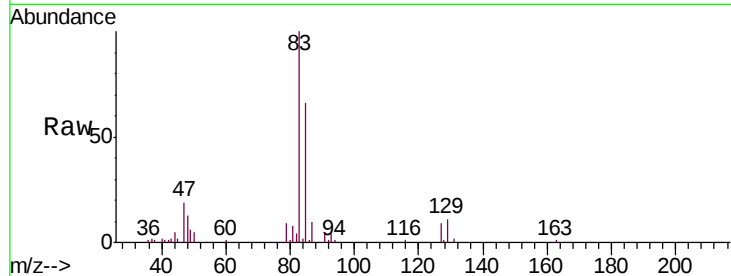
ClientSampleId :

VSTDIC005

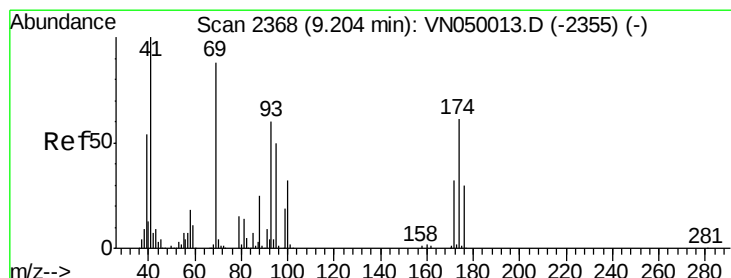
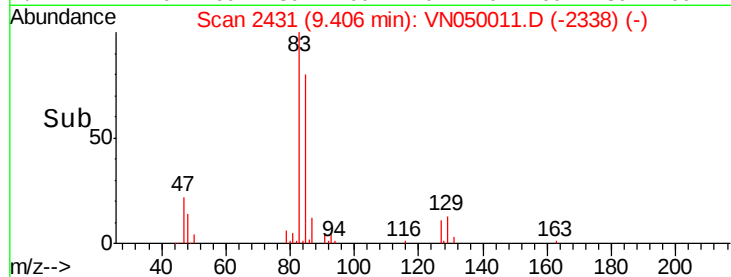
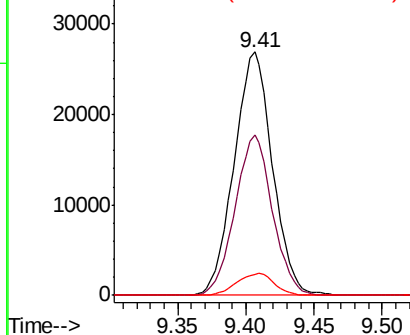
Tot Ion:	83	Resp:	52601
Ion Ratio	Lower	Upper	
83	100		
85	66.0	51.1	76.7
127	8.8	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM



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



#48

Methyl methacrylate

Concen: 4.49 ug/l

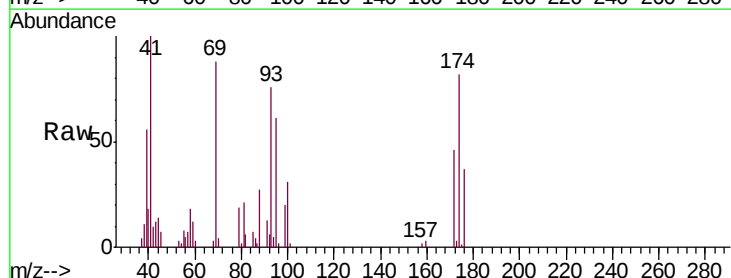
RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

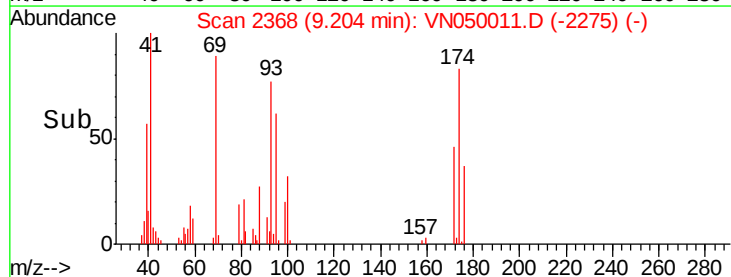
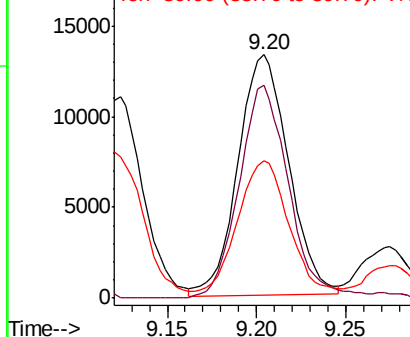
Lab File: VN050011.D

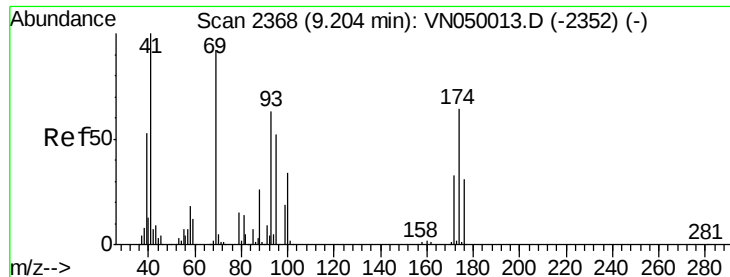
Acq: 23 Jul 2018 17:57

Tgt Ion:	41	Resp:	26356
Ion Ratio	Lower	Upper	
41	100		
69	86.4	70.6	105.8
39	59.5	43.9	65.9



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





#49

1,4-Dioxane

Concen: 93.80 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

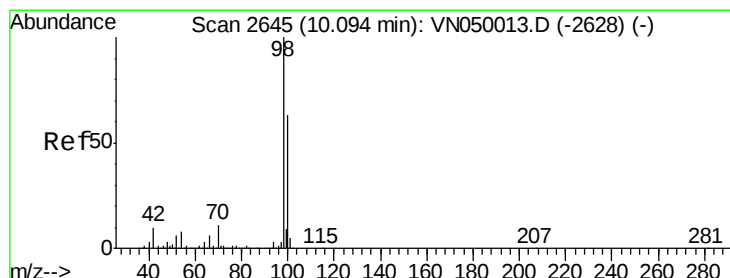
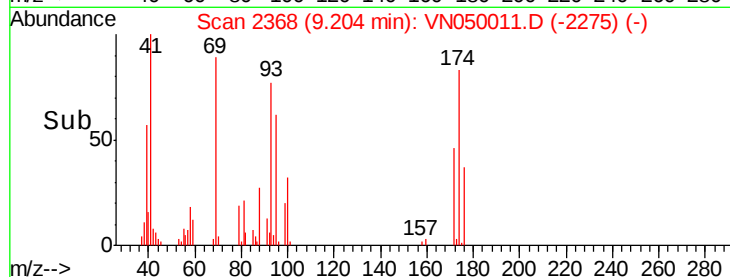
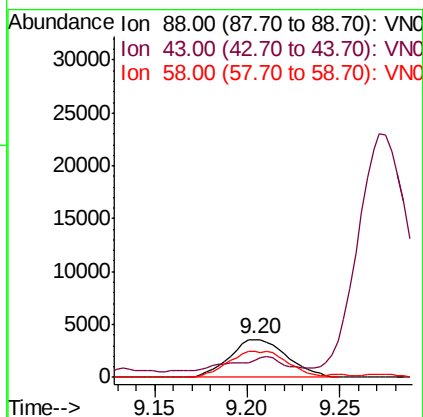
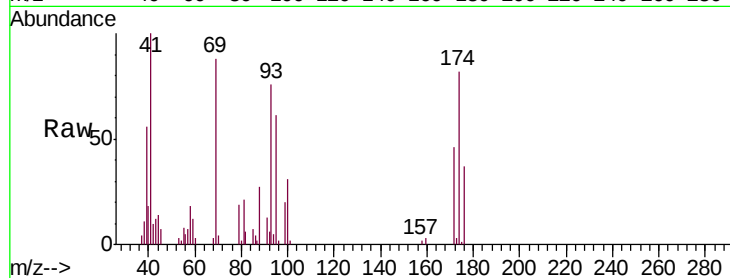
ClientSampleId :

VSTDIC005

Tot Ion:	88	Resp:	7685
Ion	Ratio	Lower	Upper
88	100		
43	31.5	26.9	40.3
58	71.6	57.3	85.9

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM



#50

Toluene-d8

Concen: 4.73 ug/l

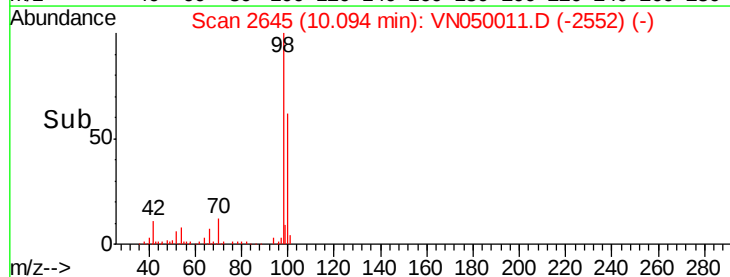
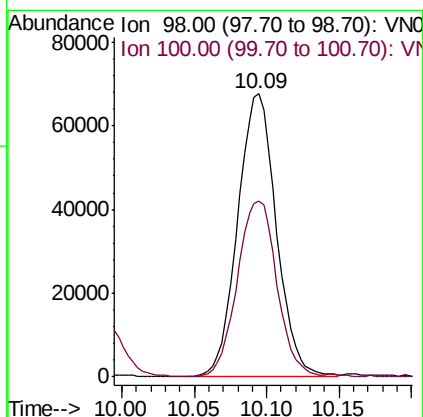
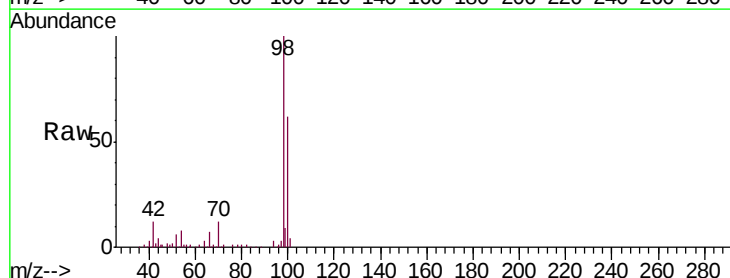
RT: 10.09 min Scan# 2645

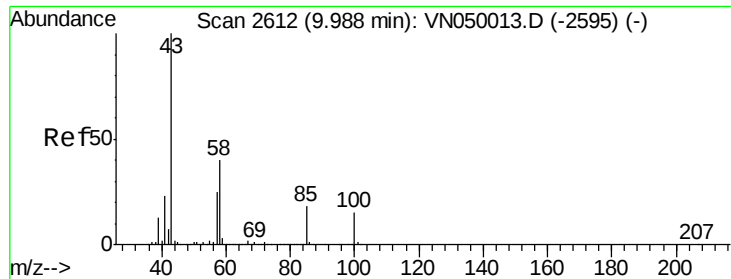
Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion:	98	Resp:	125590
Ion	Ratio	Lower	Upper
98	100		
100	63.0	50.7	76.1





#51

4-Methyl-2-Pentanone

Concen: 24.78 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 161442

Ion Ratio Lower Upper

43 100

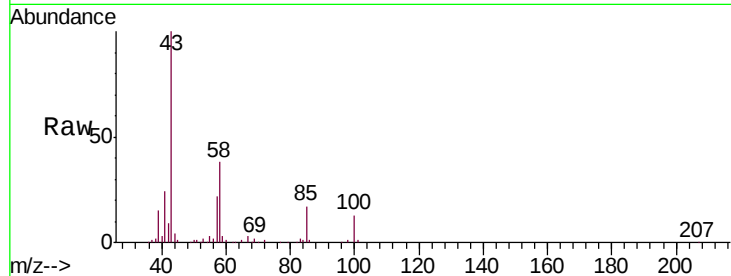
58 36.8 31.9 47.9

Manual Integrations

APPROVED

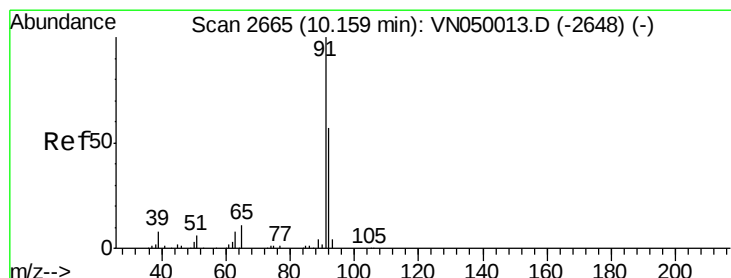
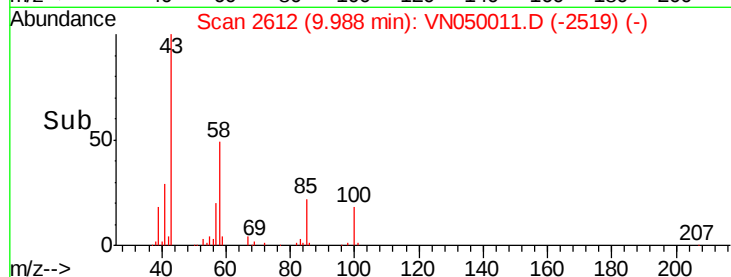
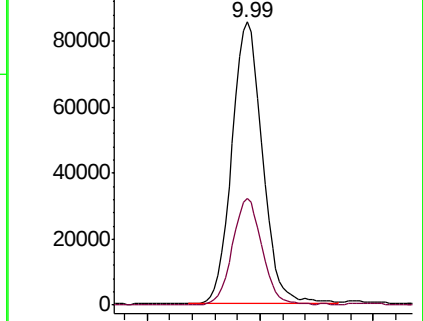
MMDadoda

7/26/2018 1:50:42 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 4.86 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN050011.D

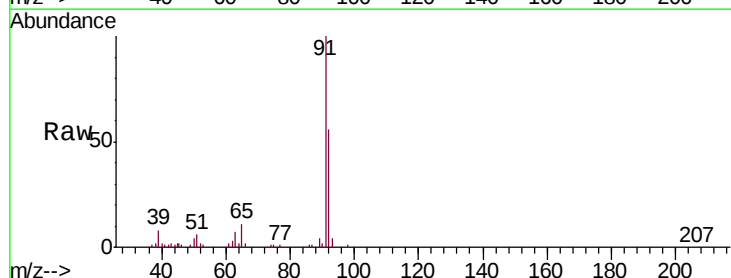
Acq: 23 Jul 2018 17:57

Tgt Ion: 92 Resp: 85724

Ion Ratio Lower Upper

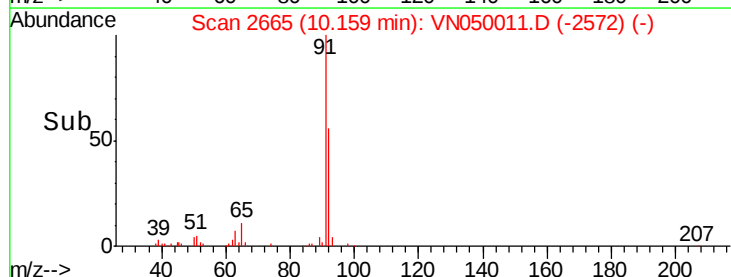
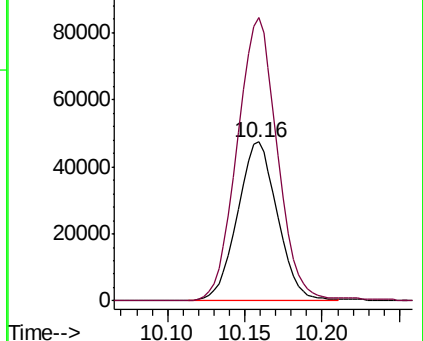
92 100

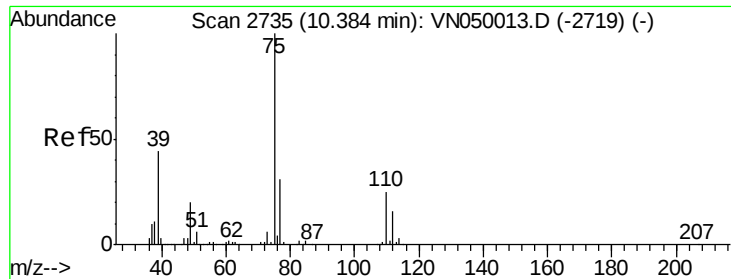
91 177.3 140.3 210.5



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





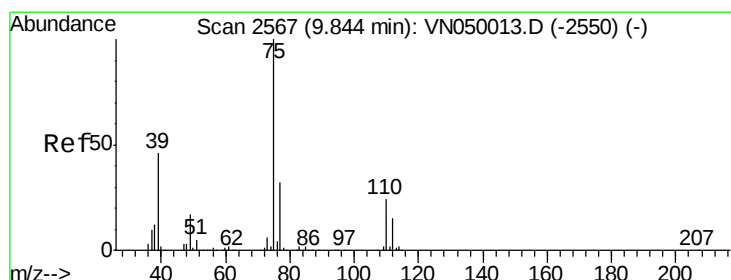
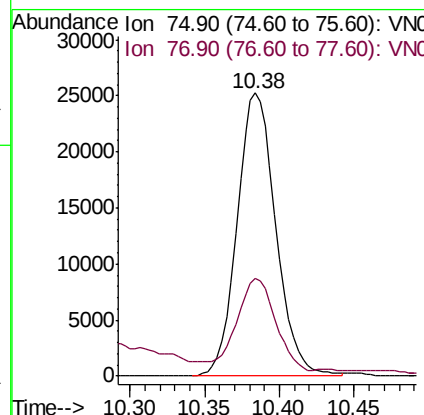
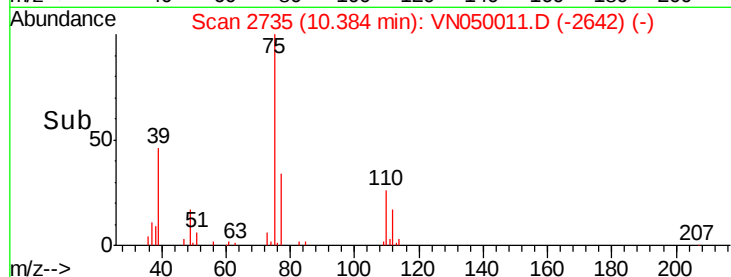
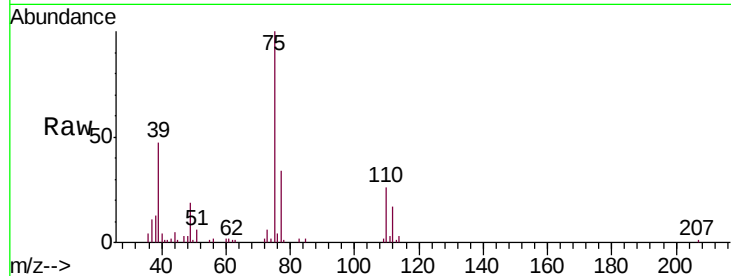
#53
t-1,3-Dichloropropene
Concen: 4.50 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 75 Resp: 45407
Ion Ratio Lower Upper
75 100
77 32.7 24.9 37.3

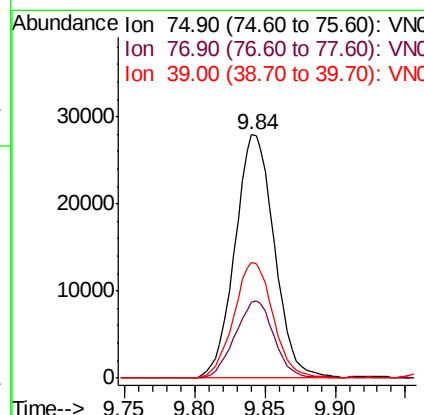
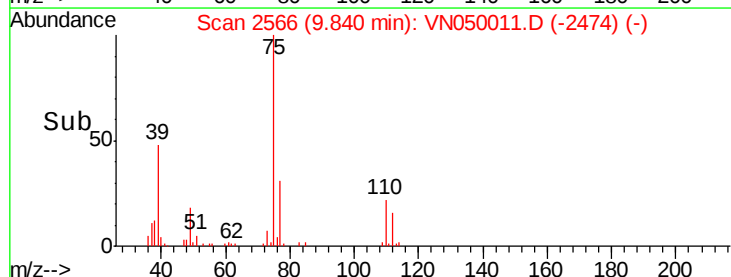
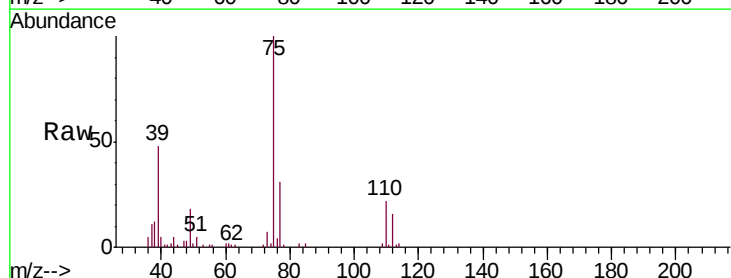
Manual Integrations
APPROVED

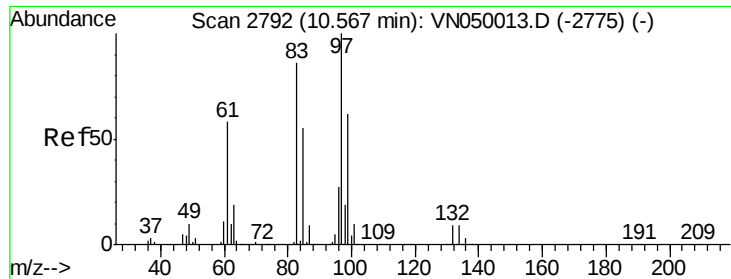
MMDadoda
7/26/2018 1:50:42 PM



#54
cis-1,3-Dichloropropene
Concen: 4.89 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion: 75 Resp: 54600
Ion Ratio Lower Upper
75 100
77 30.9 25.5 38.3
39 47.5 36.6 55.0





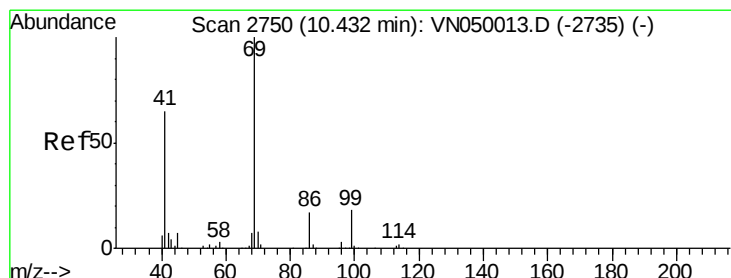
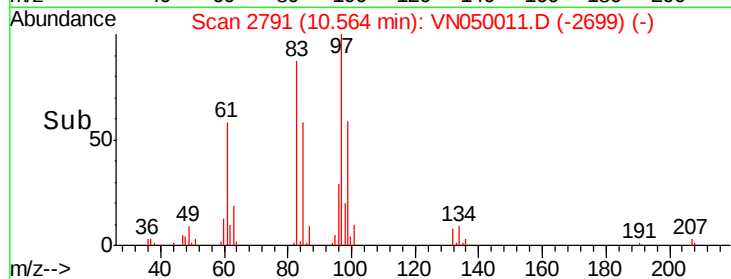
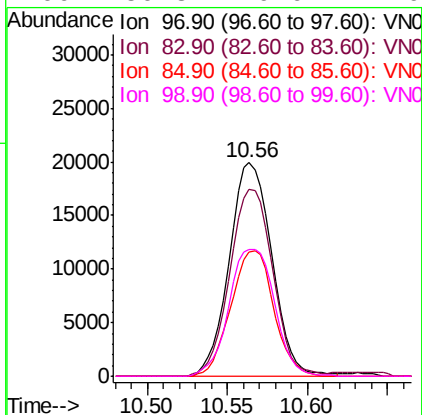
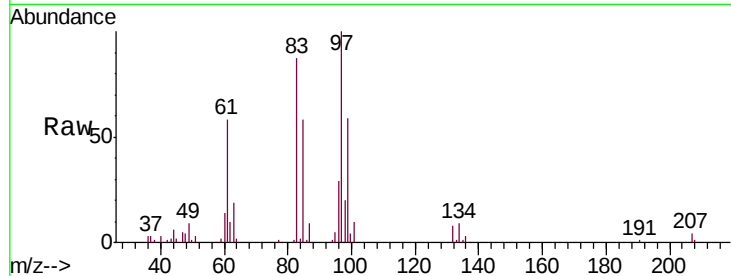
#55
 1,1,2-Trichloroethane
 Concen: 4.98 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.4	69.2	103.8
85	58.3	44.0	66.0
99	59.3	49.9	74.9

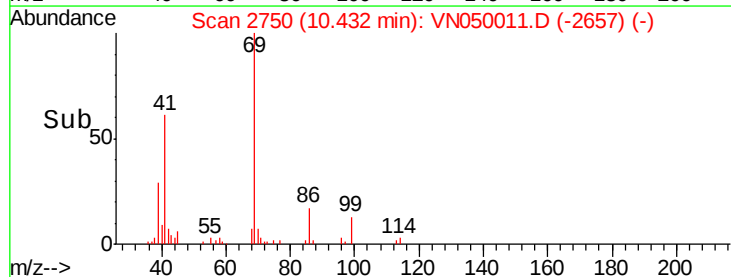
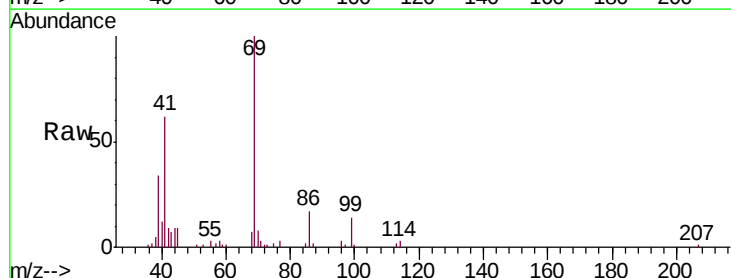
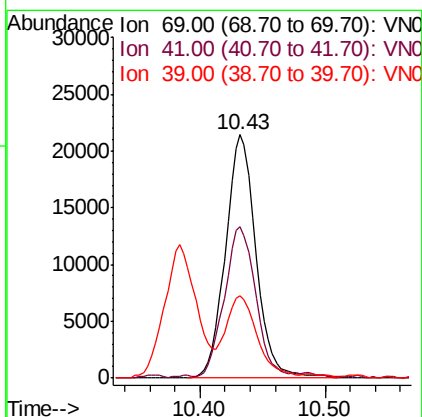
Manual Integrations
 APPROVED

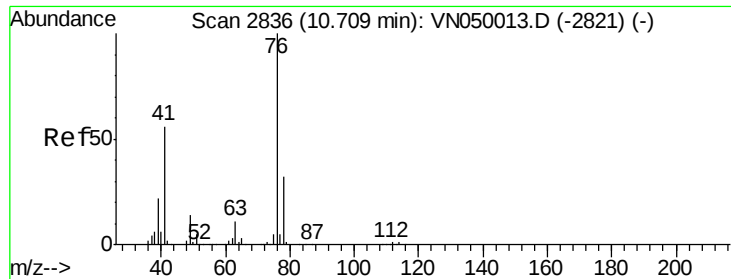
MMDadoda
 7/26/2018 1:50:42 PM



#56
 Ethyl methacrylate
 Concen: 4.27 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.0	51.0	76.4
39	32.5	26.6	40.0





#57

1,3-Dichloropropane

Concen: 5.05 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 57936

Ion Ratio Lower Upper

76 100

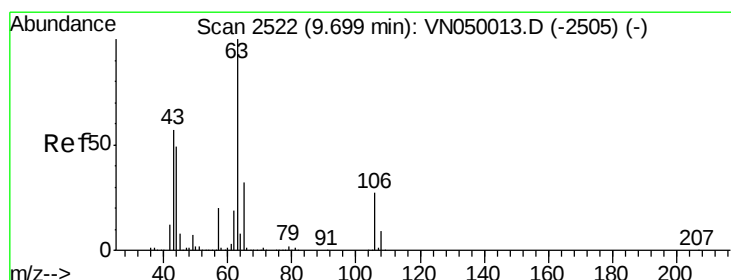
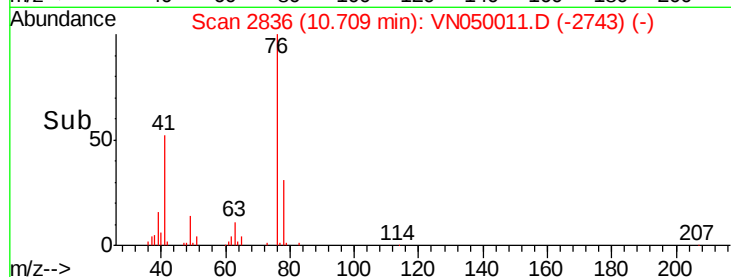
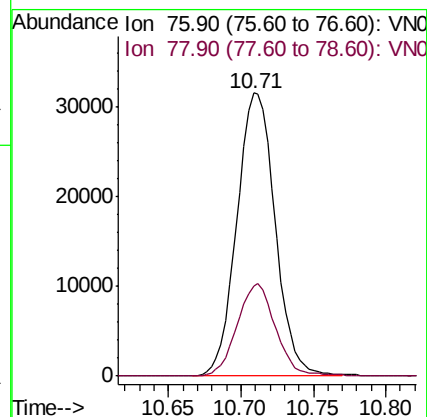
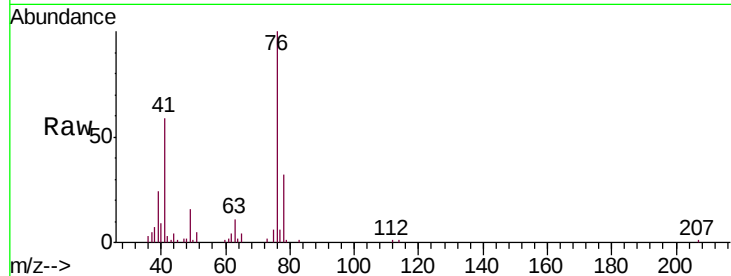
78 32.8 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

7/26/2018 1:50:42 PM



#58

2-Chloroethyl Vinyl ether

Concen: 20.75 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN050011.D

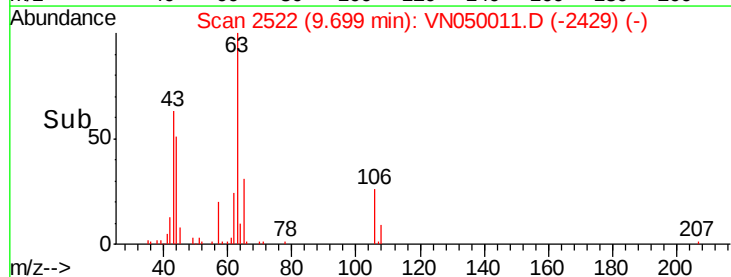
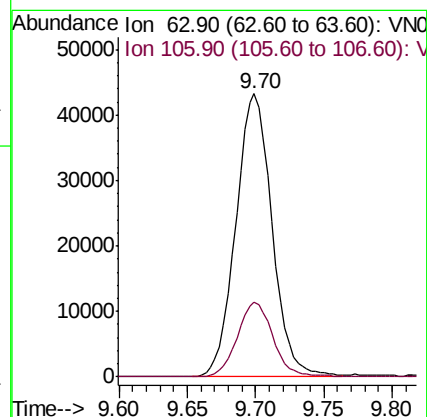
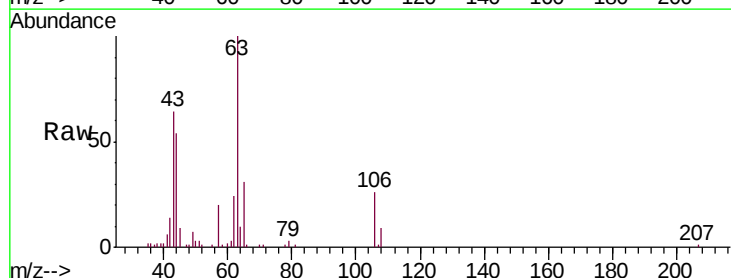
Acq: 23 Jul 2018 17:57

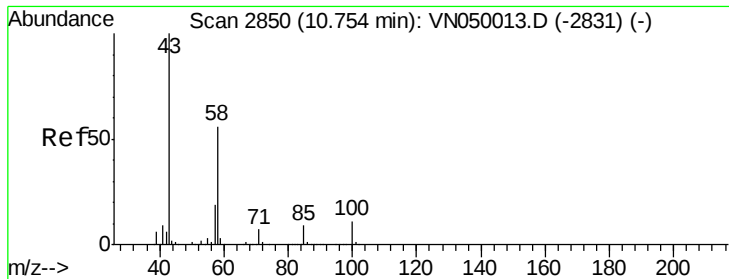
Tgt Ion: 63 Resp: 79904

Ion Ratio Lower Upper

63 100

106 25.7 21.7 32.5





#59

2-Hexanone

Concen: 23.21 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 101441

Ion Ratio Lower Upper

43 100

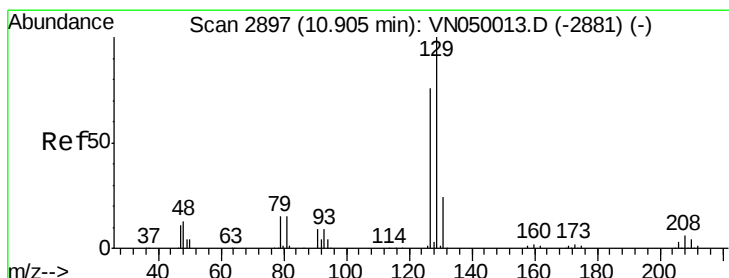
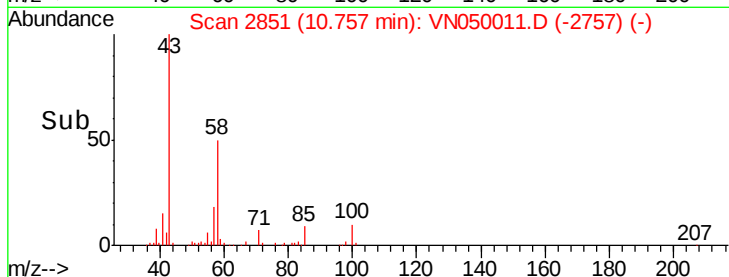
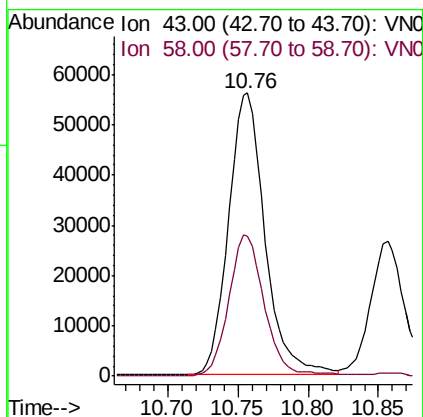
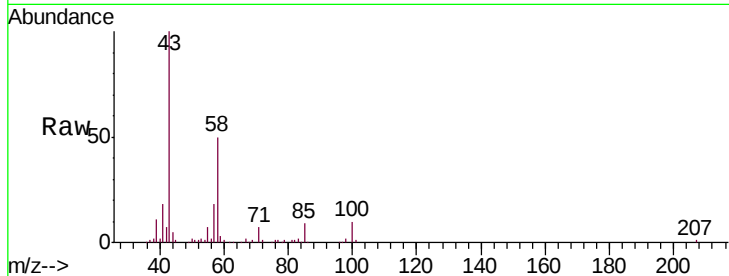
58 49.1 27.6 82.7

Manual Integrations

APPROVED

MMDadoda

7/26/2018 1:50:42 PM



#60

Dibromochloromethane

Concen: 4.89 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050011.D

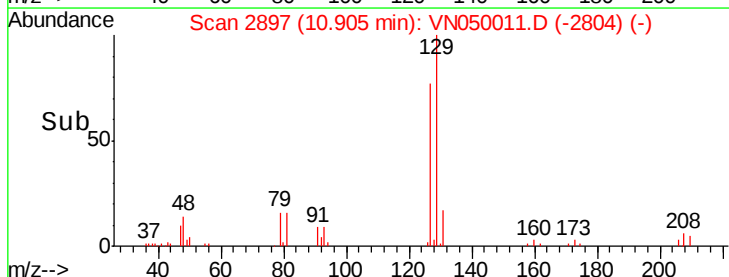
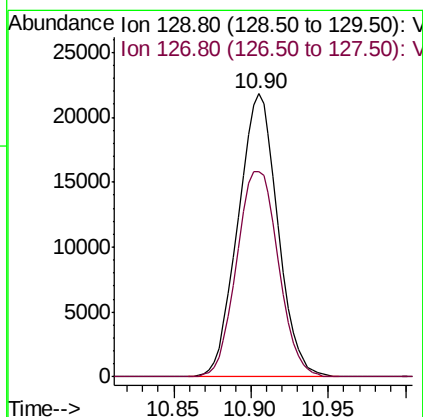
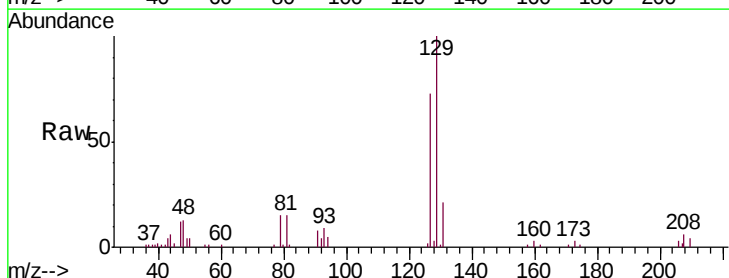
Acq: 23 Jul 2018 17:57

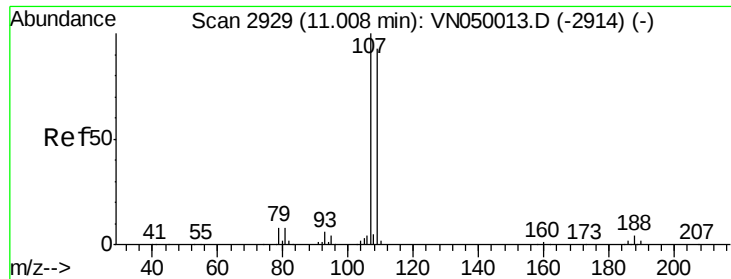
Tgt Ion: 129 Resp: 39000

Ion Ratio Lower Upper

129 100

127 76.1 38.0 113.9





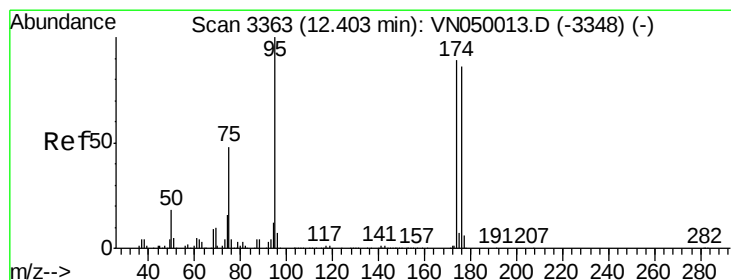
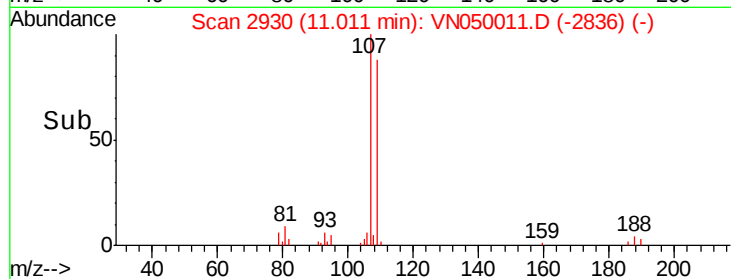
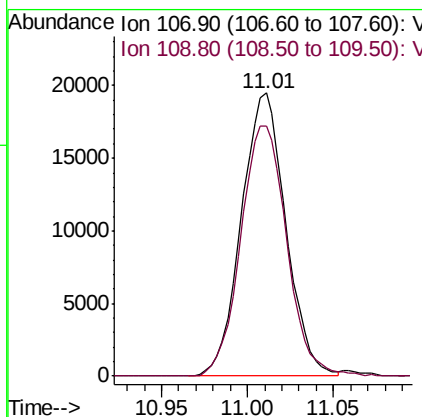
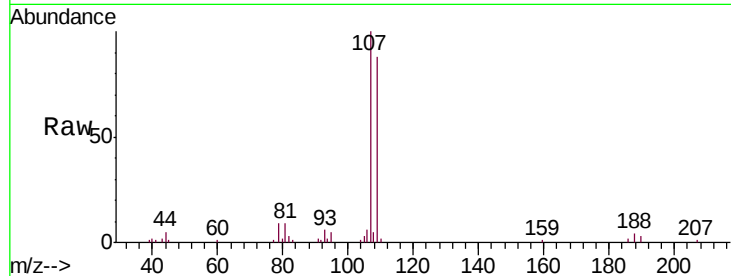
#61
 1,2-Dibromoethane
 Concen: 5.14 ug/l
 RT: 11.01 min Scan# 2930
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:107 Resp: 35017
 Ion Ratio Lower Upper
 107 100
 109 91.7 74.6 112.0

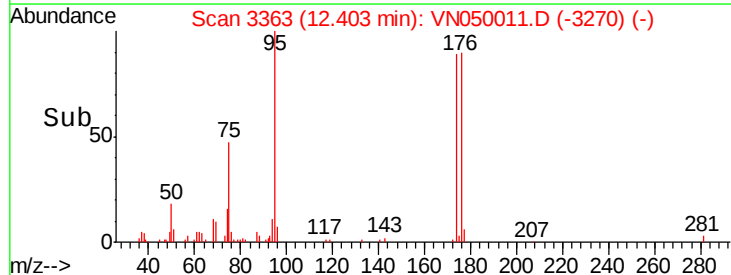
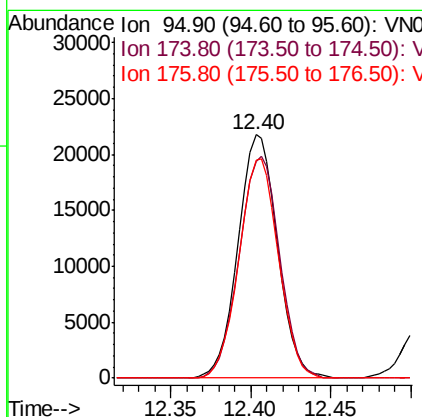
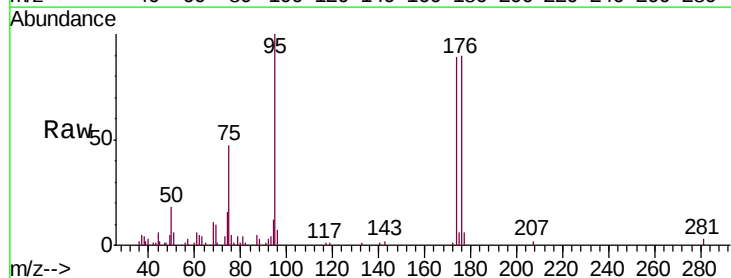
Manual Integrations
 APPROVED

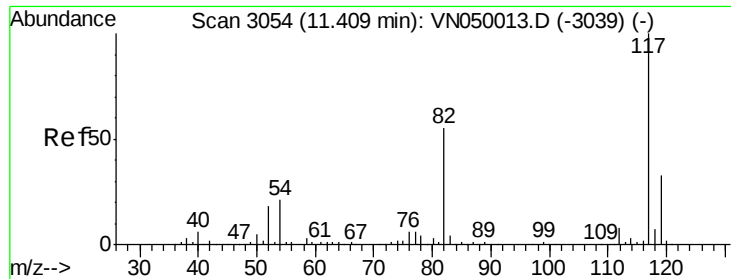
MMDadoda
 7/26/2018 1:50:42 PM



#62
 4-Bromofluorobenzene
 Concen: 4.01 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion: 95 Resp: 36425
 Ion Ratio Lower Upper
 95 100
 174 93.5 0.0 178.2
 176 90.4 0.0 173.4





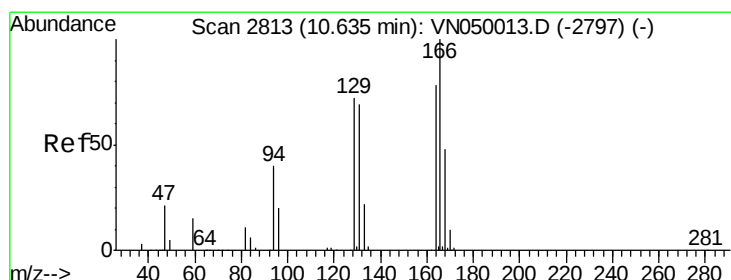
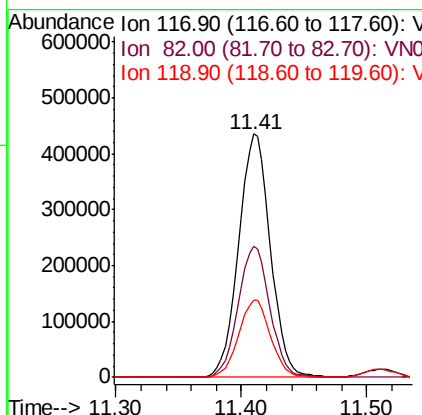
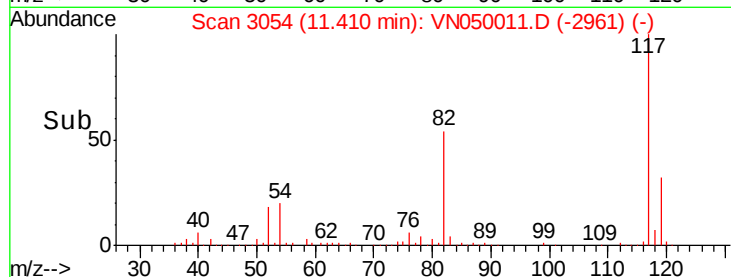
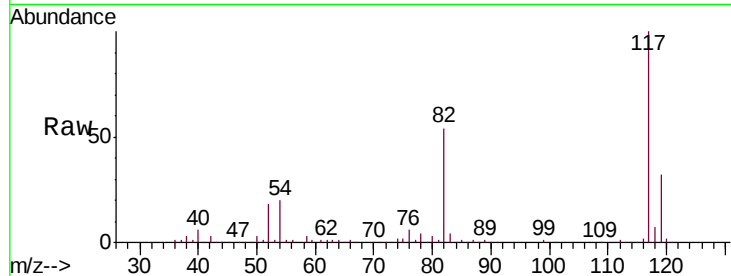
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.9	43.7	65.5
119	31.7	26.1	39.1

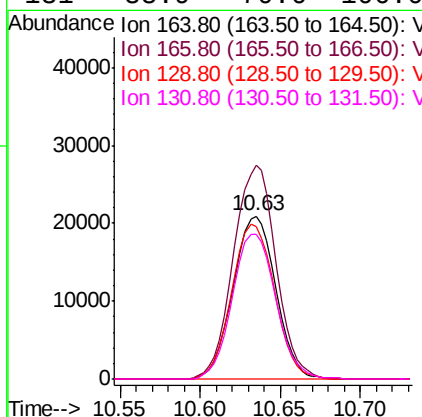
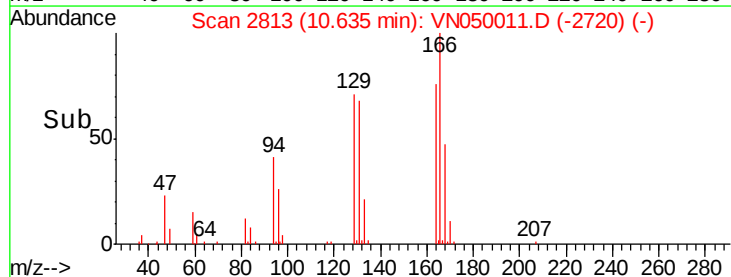
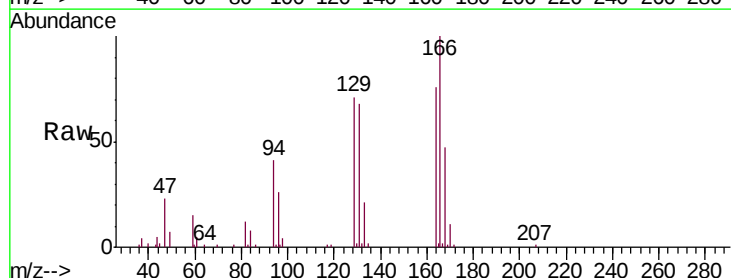
Manual Integrations
APPROVED

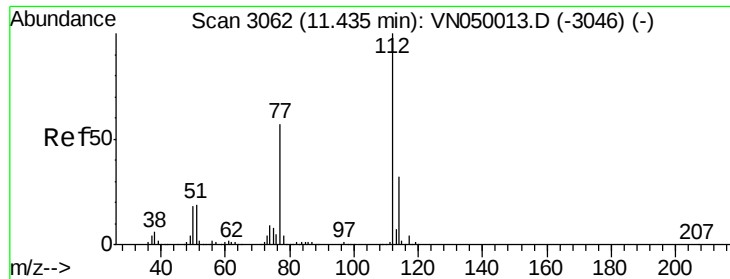
MMDadoda
7/26/2018 1:50:42 PM



#64
Tetrachloroethene
Concen: 5.44 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.2	102.1	153.1
129	93.4	73.2	109.8
131	88.9	70.6	106.0





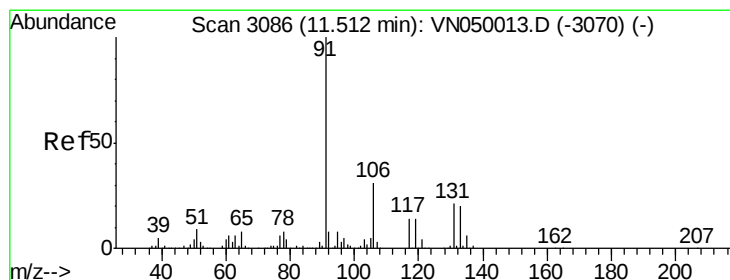
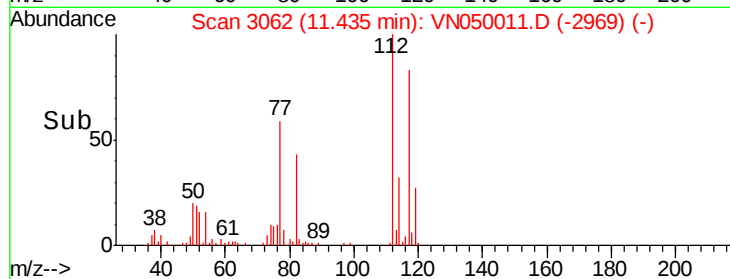
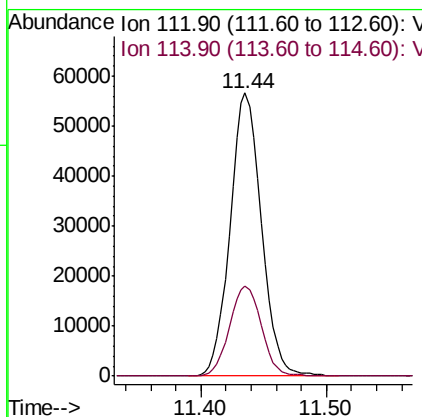
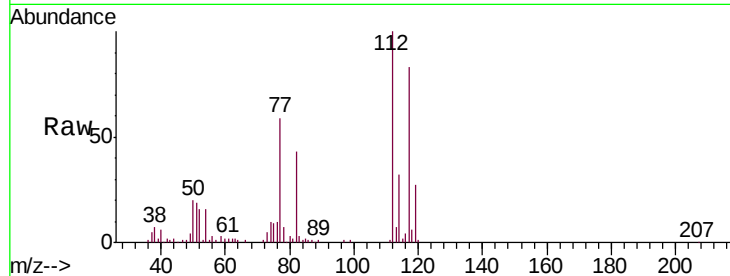
#65
Chlorobenzene
Concen: 5.08 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 98287
Ion Ratio Lower Upper
112 100
114 31.8 25.6 38.4

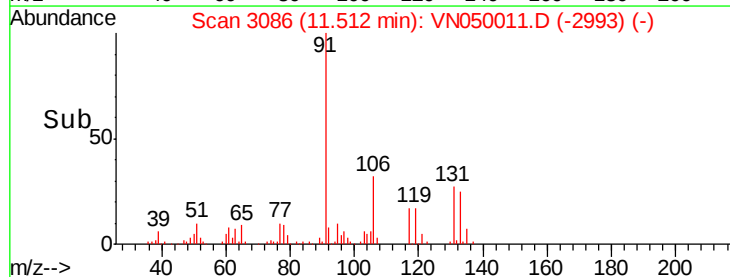
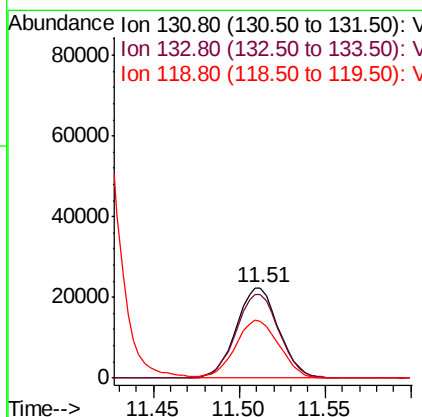
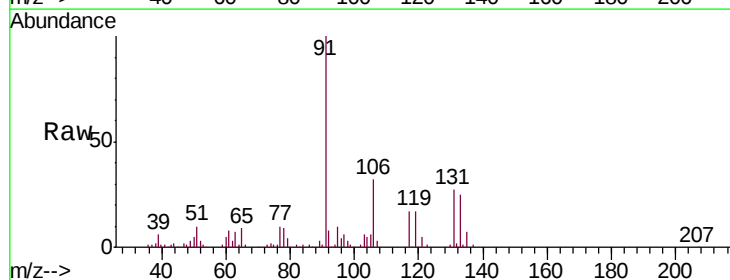
Manual Integrations
APPROVED

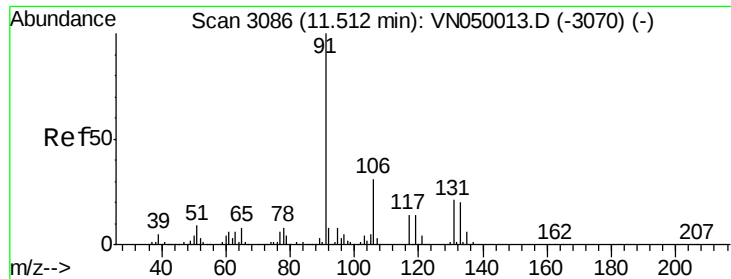
MMDadoda
7/26/2018 1:50:42 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 5.15 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion:131 Resp: 38521
Ion Ratio Lower Upper
131 100
133 95.1 47.3 141.9
119 66.3 32.9 98.7





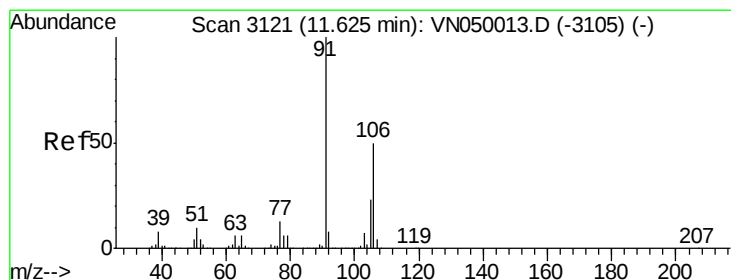
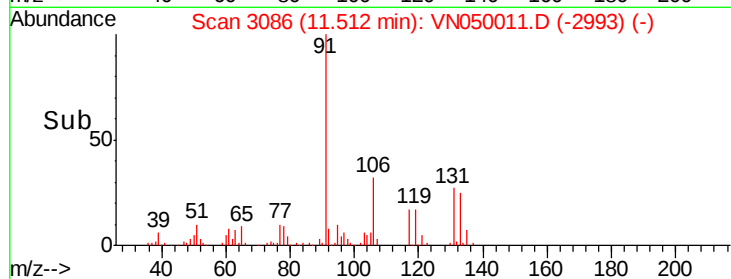
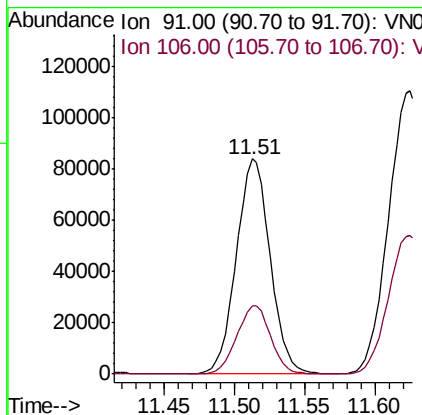
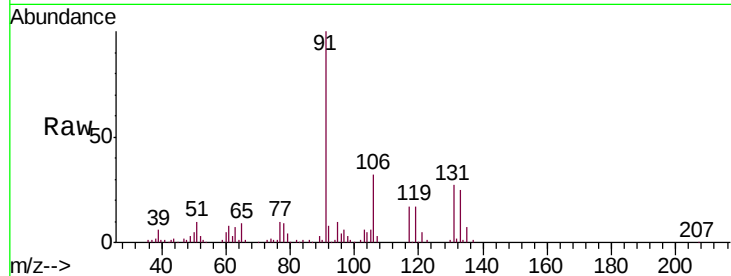
#67
Ethyl Benzene
Concen: 4.52 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 141544
Ion Ratio Lower Upper
91 100
106 31.5 25.0 37.4

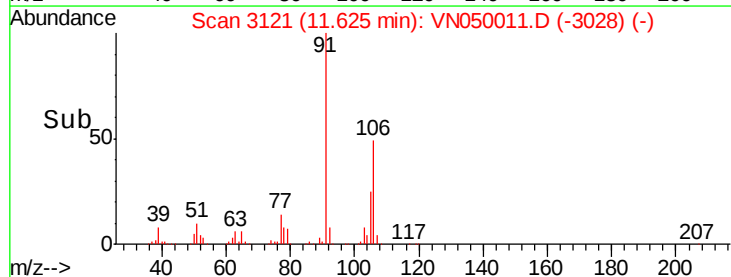
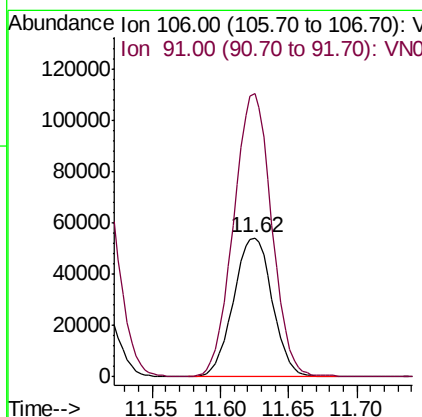
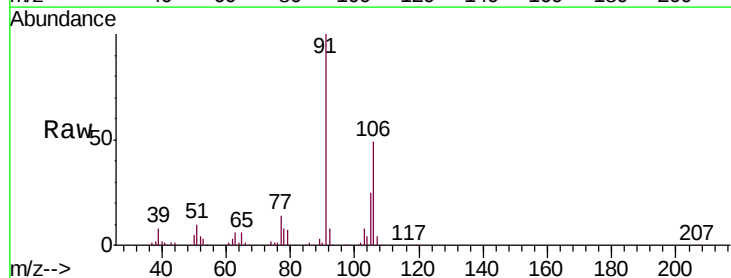
Manual Integrations
APPROVED

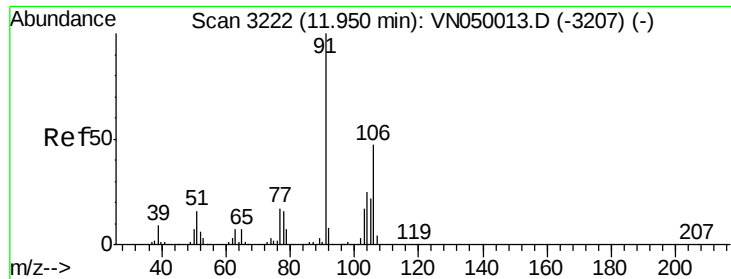
MMDadoda
7/26/2018 1:50:42 PM



#68
m/p-Xylenes
Concen: 9.05 ug/l
RT: 11.62 min Scan# 3121
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion: 106 Resp: 107252
Ion Ratio Lower Upper
106 100
91 200.1 162.2 243.2





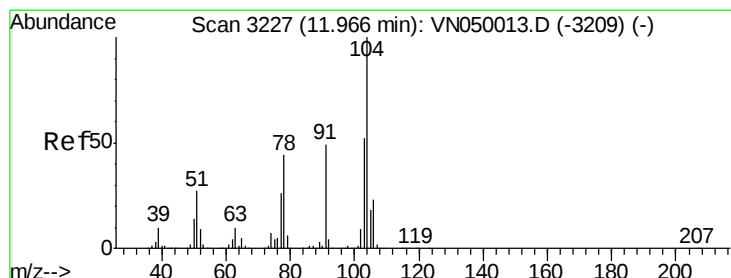
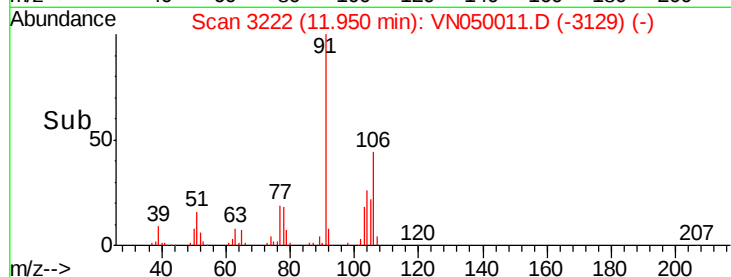
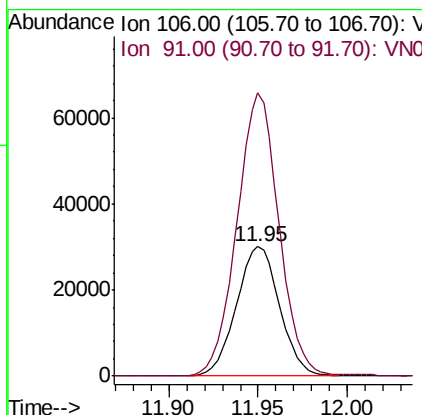
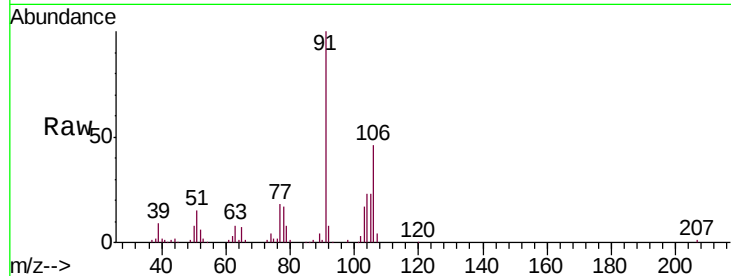
#69
o-Xylene
Concen: 4.46 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 50777
Ion Ratio Lower Upper
106 100
91 213.2 107.7 323.1

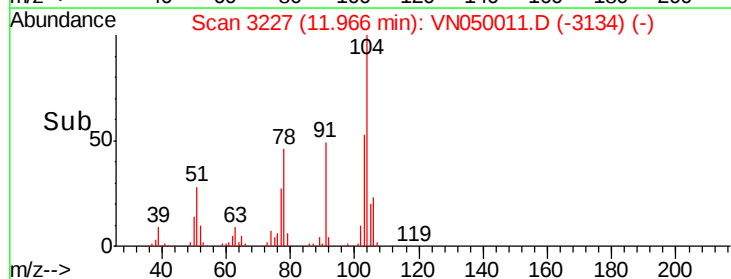
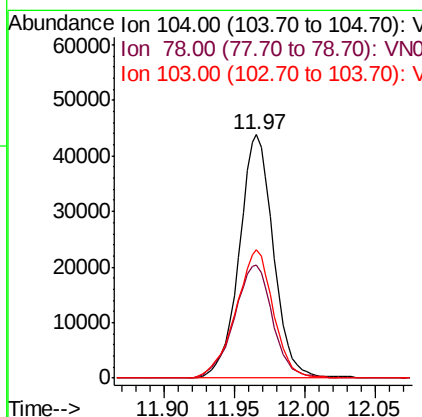
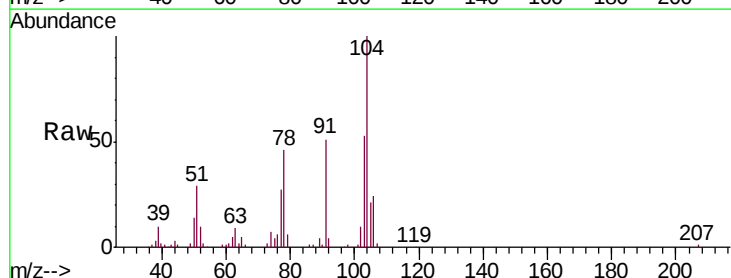
Manual Integrations
APPROVED

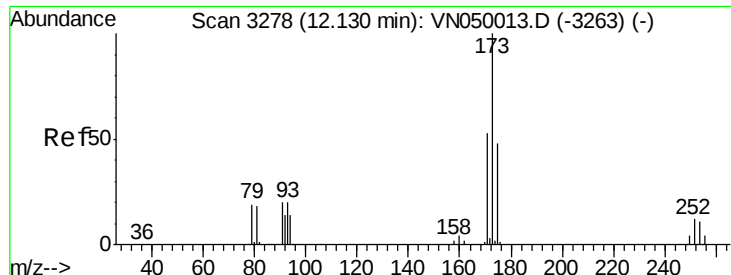
MMDadoda
7/26/2018 1:50:42 PM



#70
Styrene
Concen: 4.06 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion:104 Resp: 74410
Ion Ratio Lower Upper
104 100
78 52.1 39.3 58.9
103 57.8 45.0 67.6





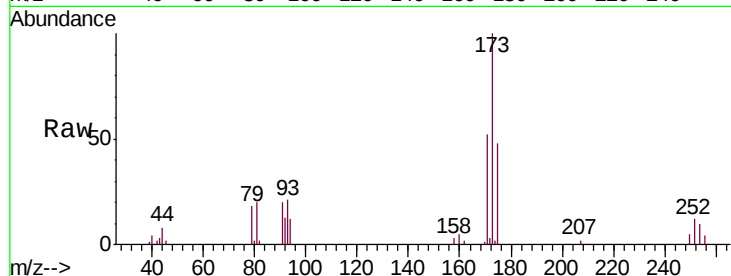
#71
Bromoform
Concen: 5.04 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.1	72.2
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM

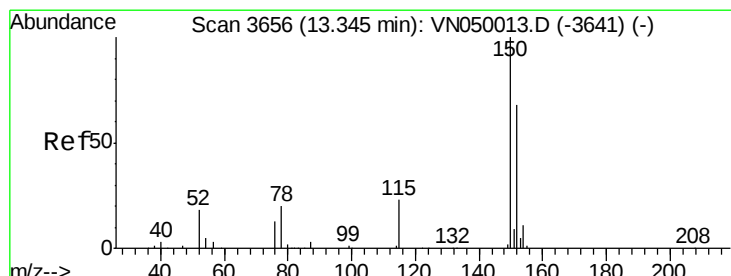
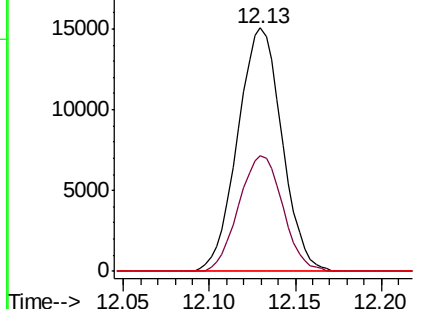
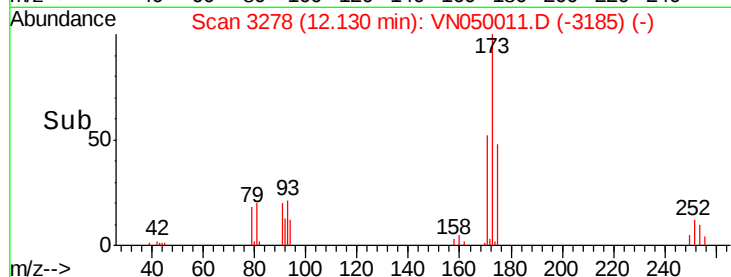


Abundance

Ion 172.70 (172.40 to 173.40): V

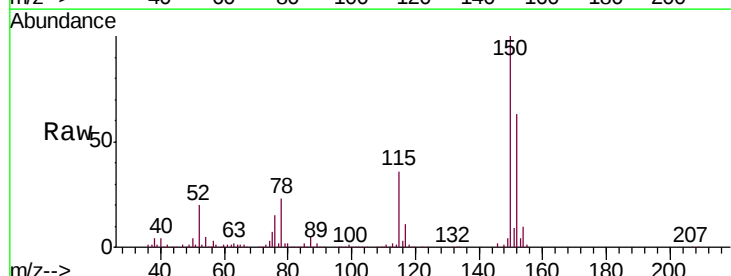
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	27.8	83.3
150	158.9	0.0	348.6

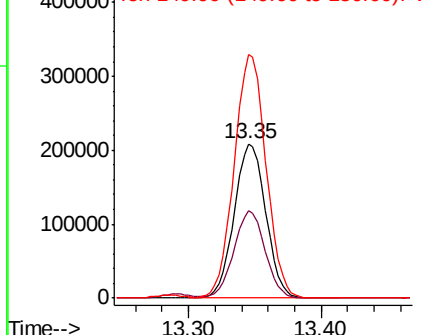
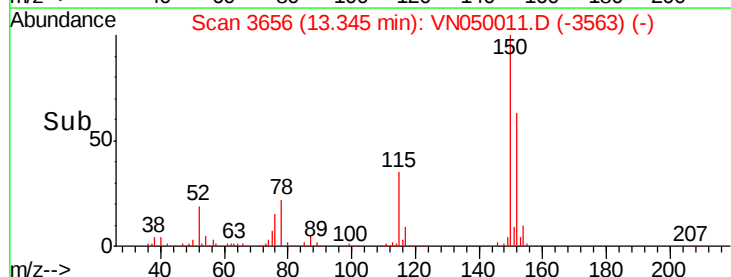


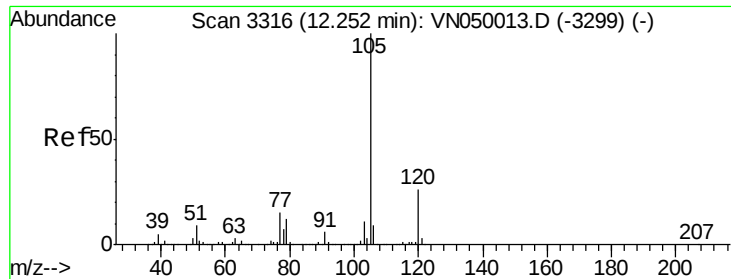
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 5.10 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 134227

Ion Ratio Lower Upper

105 100

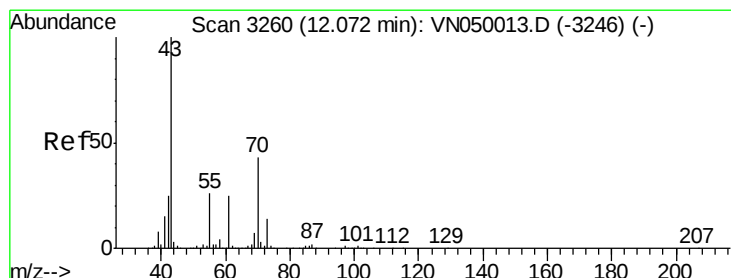
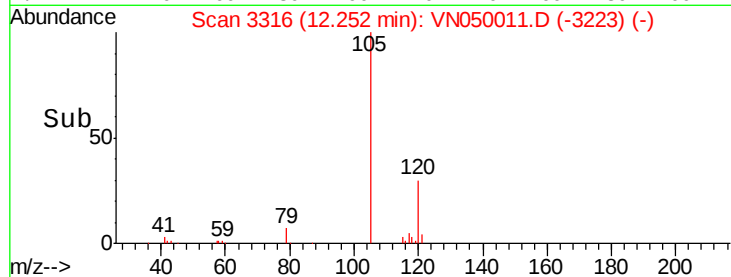
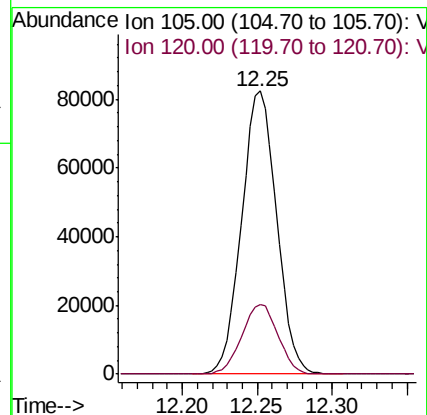
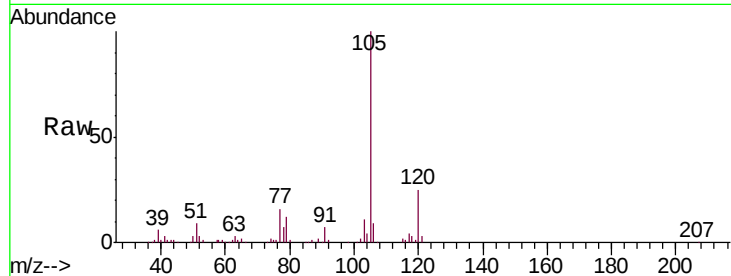
120 25.4 13.3 39.8

Manual Integrations

APPROVED

MMDadoda

7/26/2018 1:50:42 PM



#74

N-ethyl acetate

Concen: 4.73 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion: 43 Resp: 37875

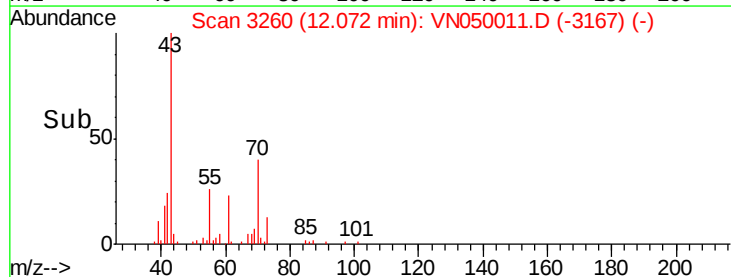
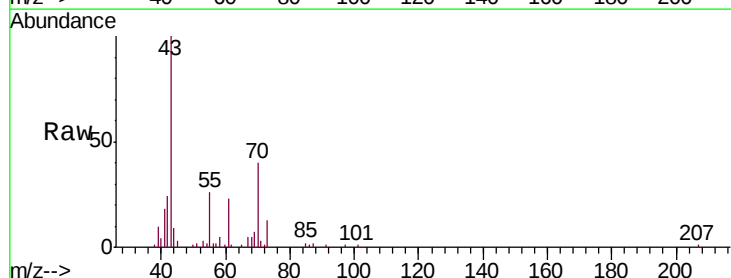
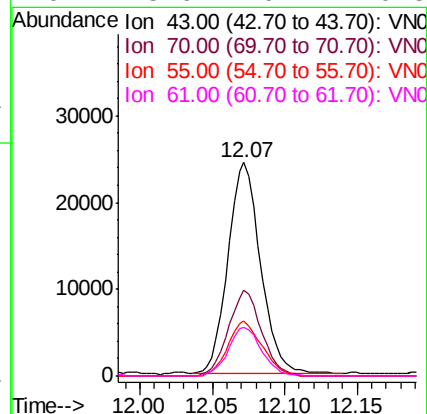
Ion Ratio Lower Upper

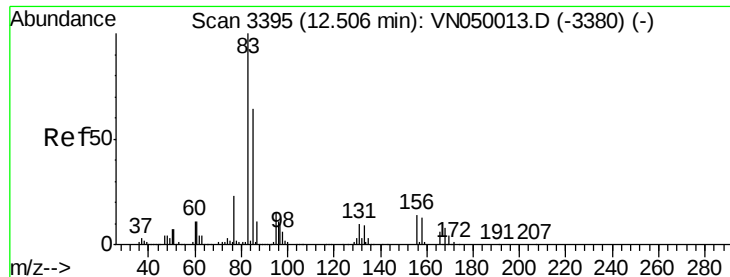
43 100

70 41.1 34.4 51.6

55 27.1 20.8 31.2

61 23.6 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 5.81 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 83 Resp: 45785

Ion Ratio Lower Upper

83 100

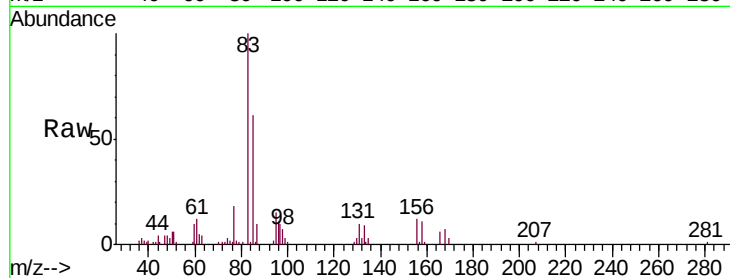
131 10.3 5.1 15.3

85 62.3 32.3 96.8

Manual Integrations
APPROVED

MMDadoda

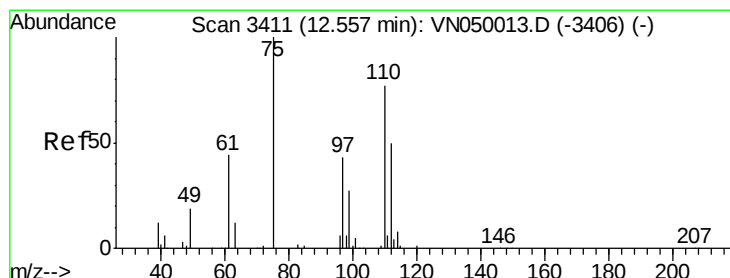
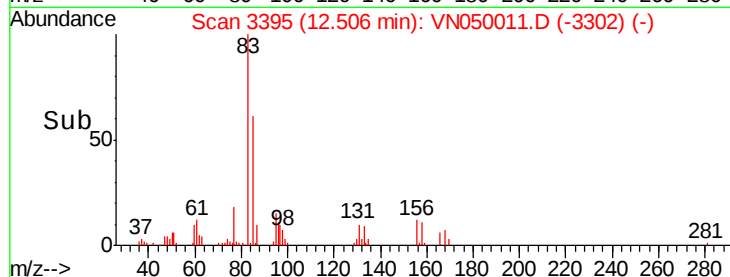
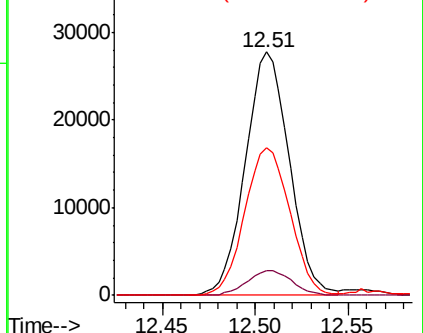
7/26/2018 1:50:42 PM



Abundance Ion 82.90 (82.60 to 83.60): VN050011.D (-3302) (-)

Ion 130.80 (130.50 to 131.50): VN050011.D (-3302) (-)

Ion 84.90 (84.60 to 85.60): VN050011.D (-3302) (-)



#76

1,2,3-Trichloropropane

Concen: 5.64 ug/l m

RT: 12.56 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN050011.D

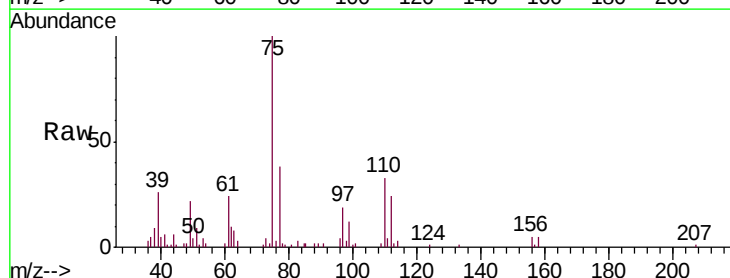
Acq: 23 Jul 2018 17:57

Tgt Ion: 75 Resp: 36388

Ion Ratio Lower Upper

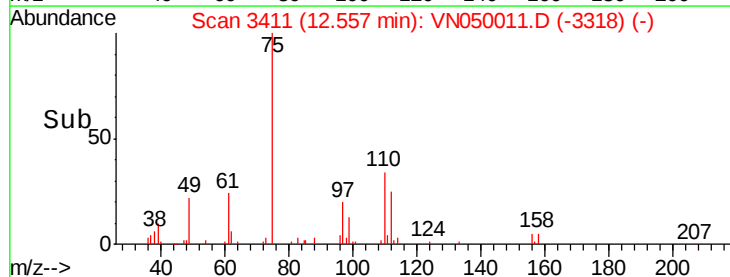
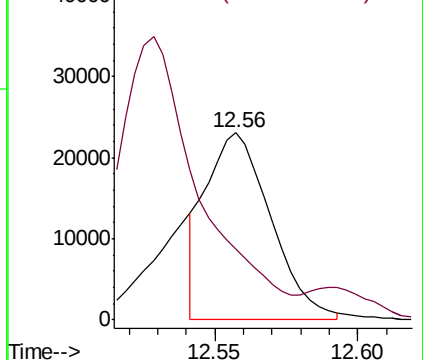
75 100

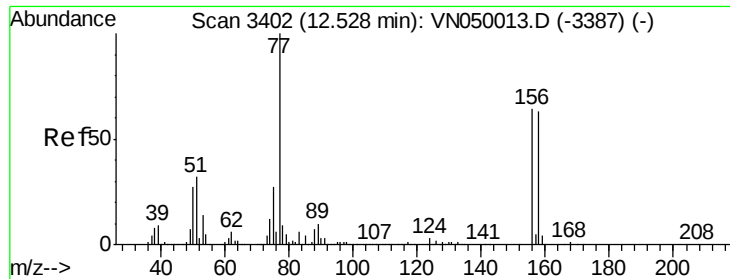
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050011.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN050011.D (-3318) (-)





#77

Bromobenzene

Concen: 5.29 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 38488

Ion Ratio Lower Upper

156 100

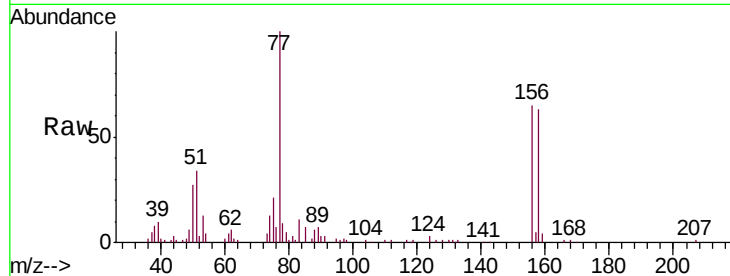
77 182.6 91.7 275.1

158 95.0 48.9 146.6

Manual Integrations
APPROVED

MMDadoda

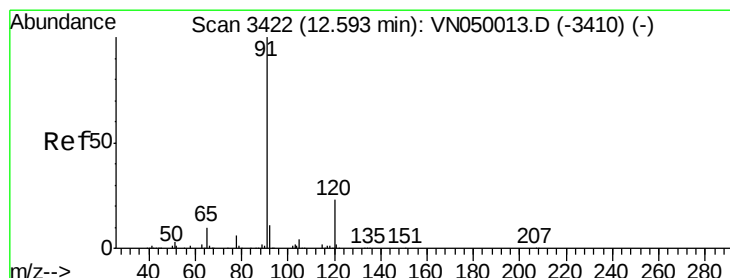
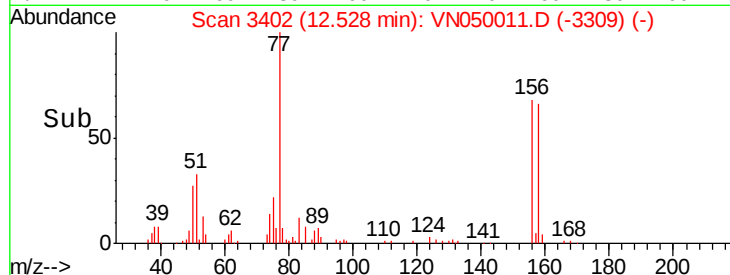
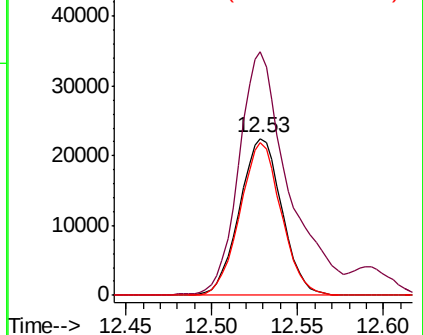
7/26/2018 1:50:42 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.82 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050011.D

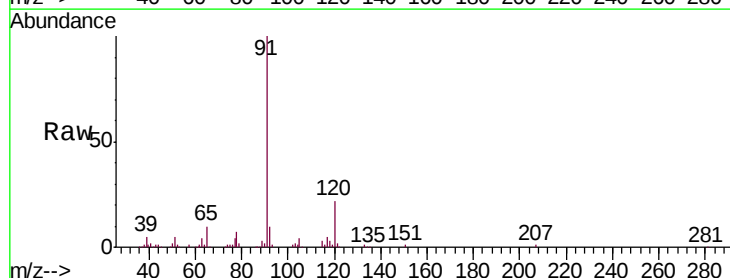
Acq: 23 Jul 2018 17:57

Tgt Ion: 91 Resp: 144385

Ion Ratio Lower Upper

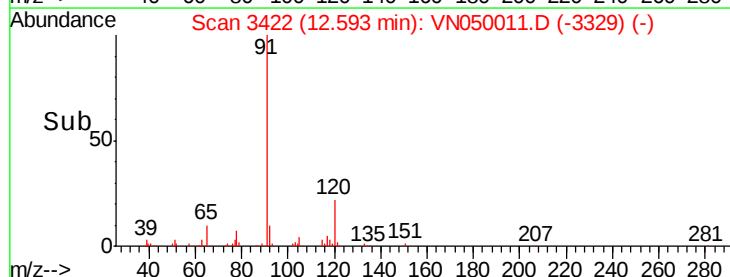
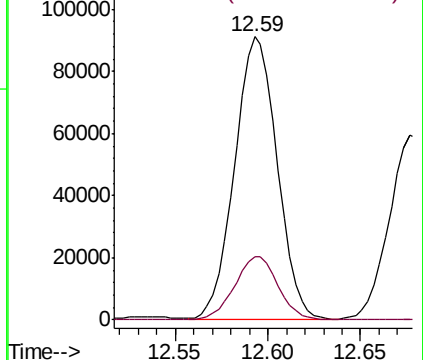
91 100

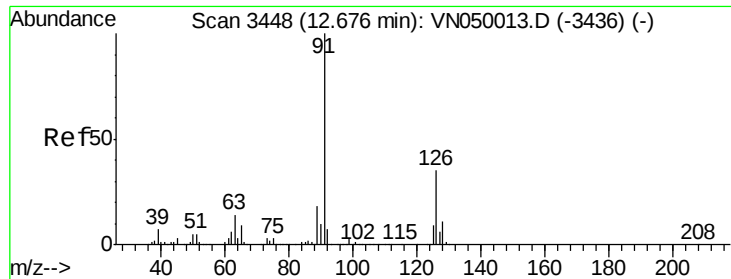
120 22.7 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.24 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 96294

Ion Ratio Lower Upper

91 100

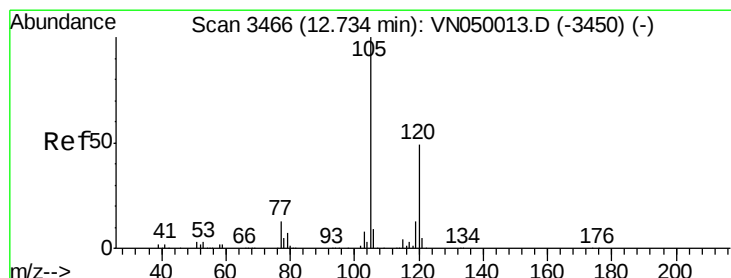
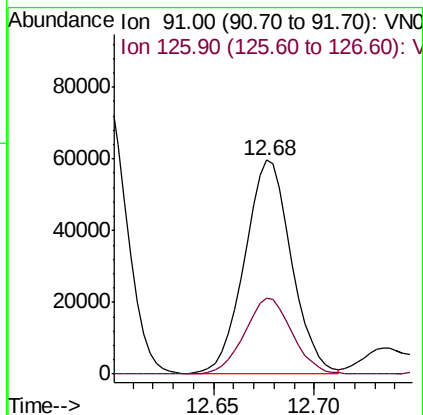
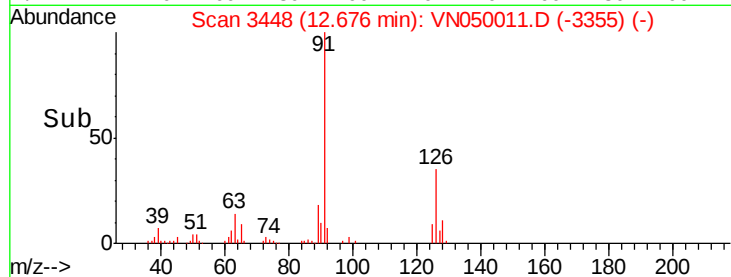
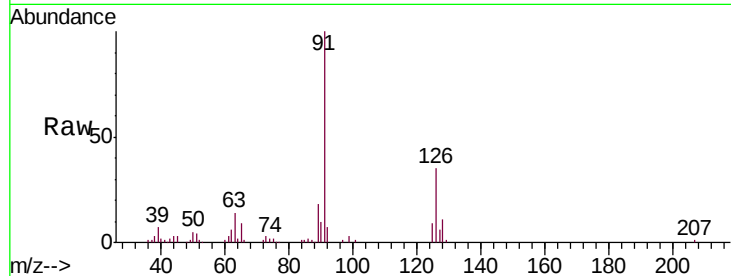
126 36.3 17.6 52.8

Manual Integrations

APPROVED

MMDadoda

7/26/2018 1:50:42 PM



#80

1,3,5-Trimethylbenzene

Concen: 4.81 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050011.D

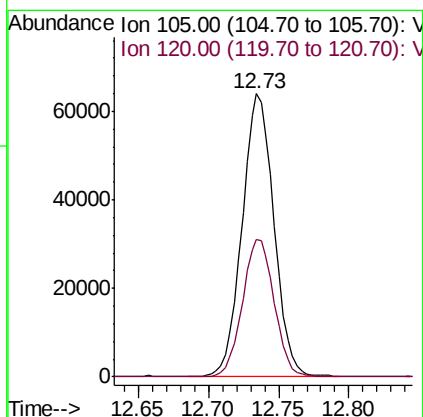
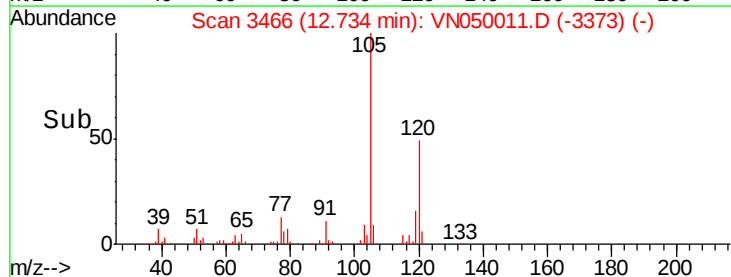
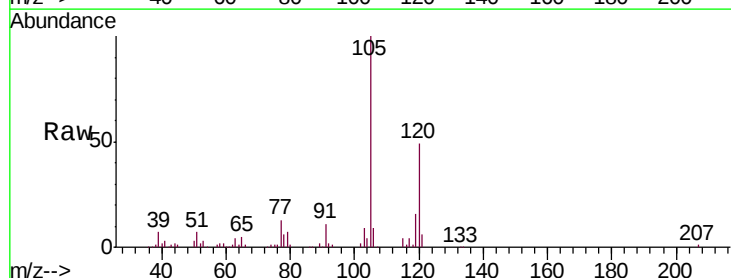
Acq: 23 Jul 2018 17:57

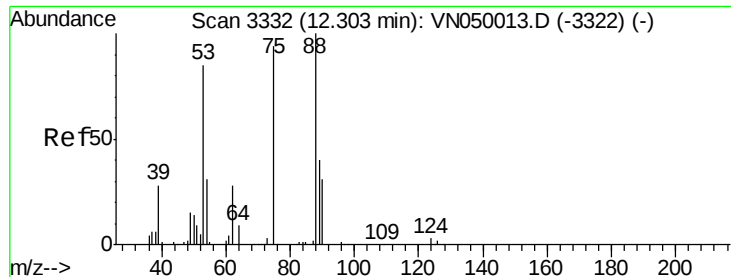
Tgt Ion: 105 Resp: 101333

Ion Ratio Lower Upper

105 100

120 48.2 24.4 73.2





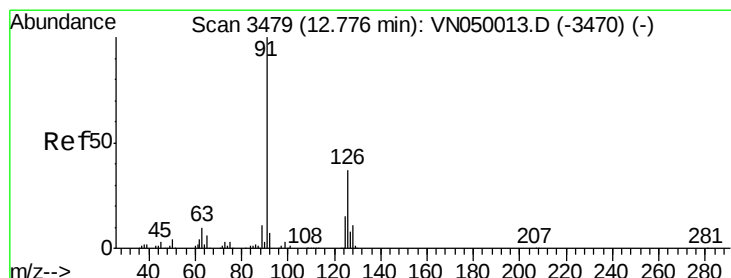
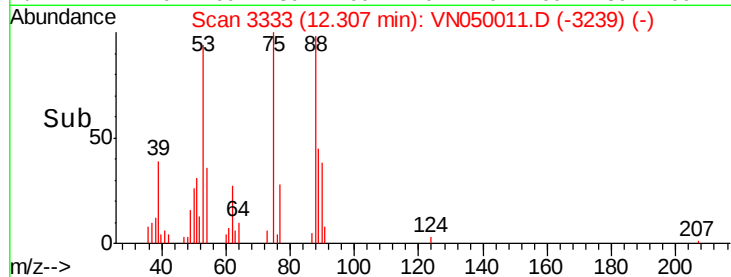
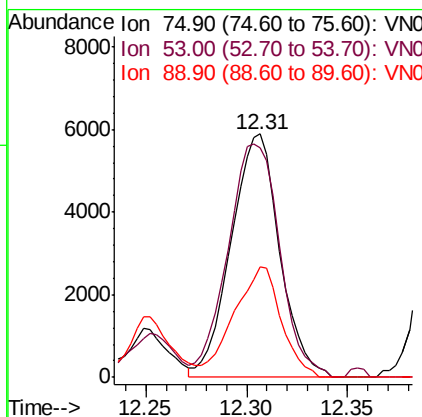
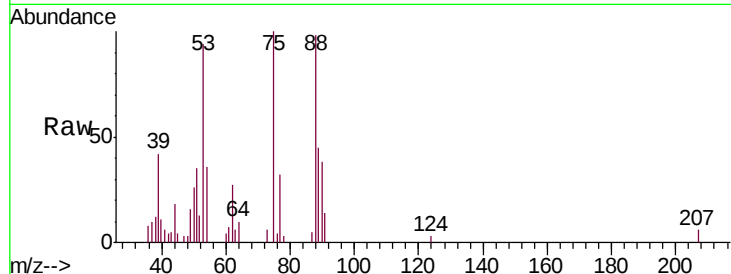
#81
trans-1,4-Dichloro-2-butene
Concen: 4.80 ug/l
RT: 12.31 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	102.8	73.5	110.3
89	43.9	36.0	54.0

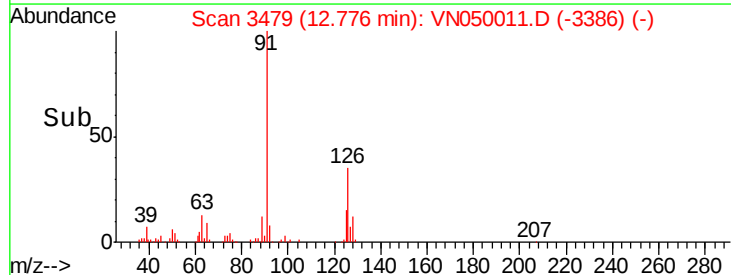
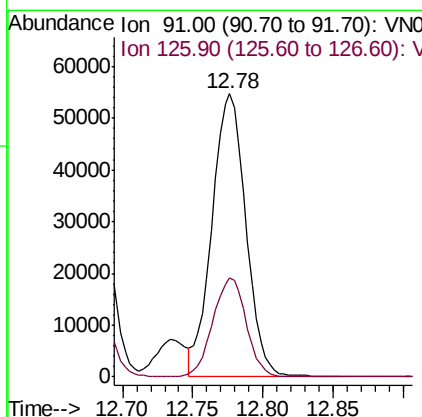
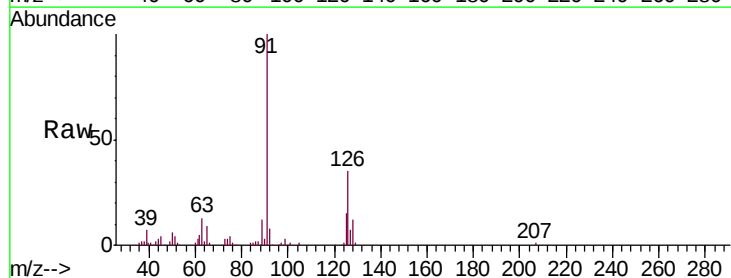
Manual Integrations
APPROVED

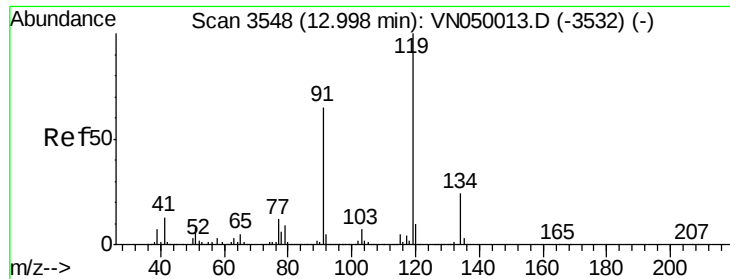
MMDadoda
7/26/2018 1:50:42 PM



#82
4-Chlorotoluene
Concen: 4.95 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.0	51.0





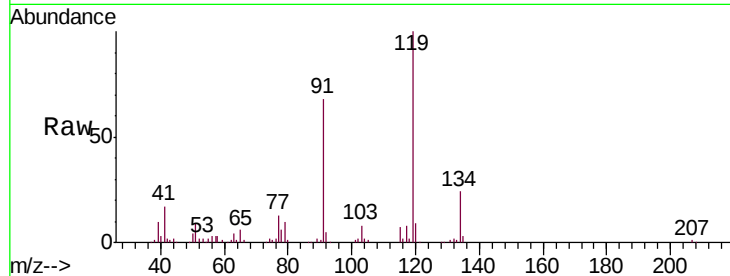
#83
 tert-Butylbenzene
 Concen: 4.90 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

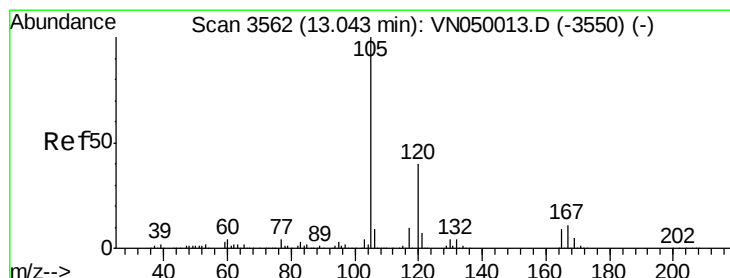
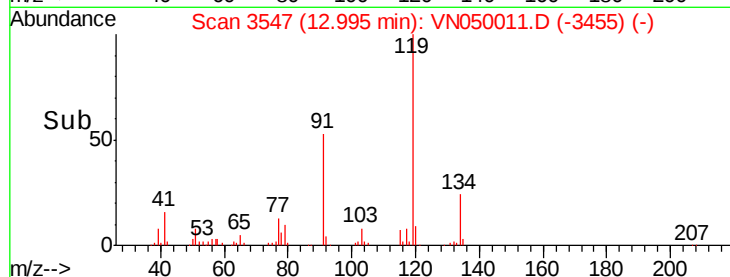
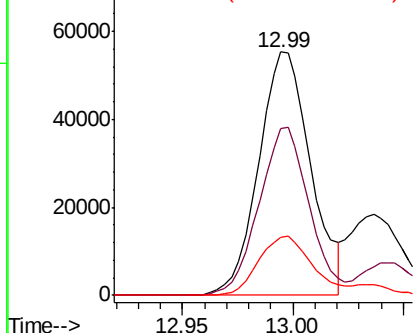
Tot Ion	Ratio	Lower	Upper
119	100		
91	66.5	32.1	96.3
134	25.3	13.2	39.5

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 1:50:42 PM

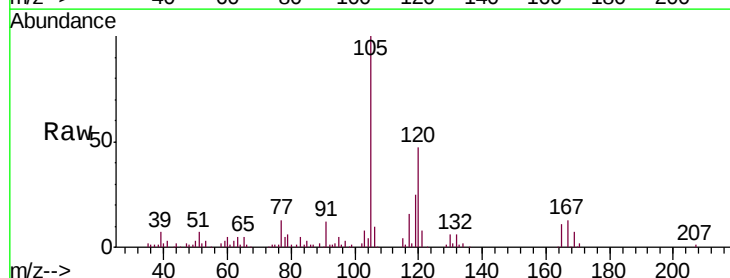


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

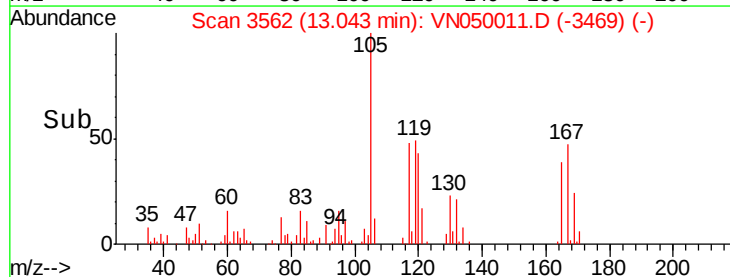
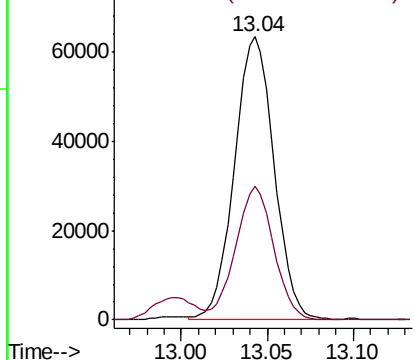


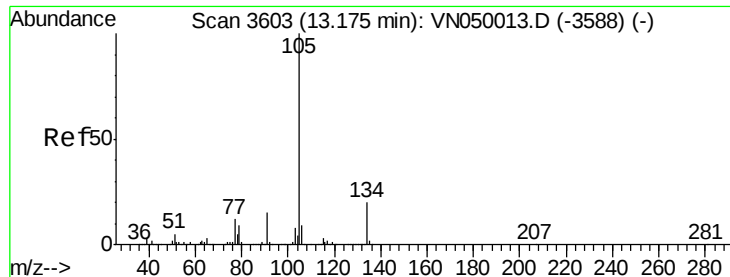
#84
 1,2,4-Trimethylbenzene
 Concen: 4.73 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.9	68.7



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 4.85 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 118656

Ion Ratio Lower Upper

105 100

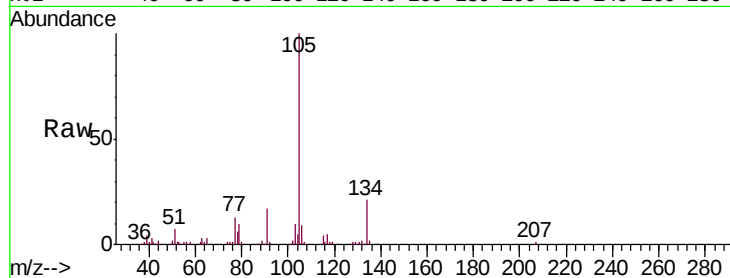
134 20.8 10.1 30.1

Manual Integrations

APPROVED

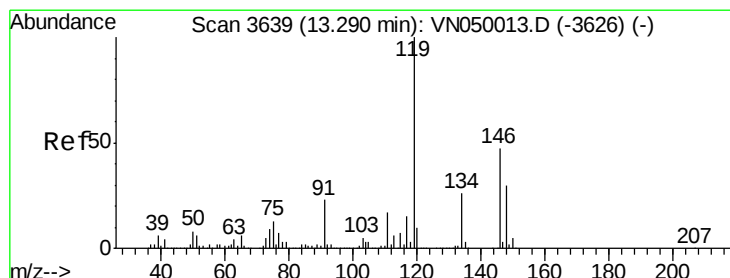
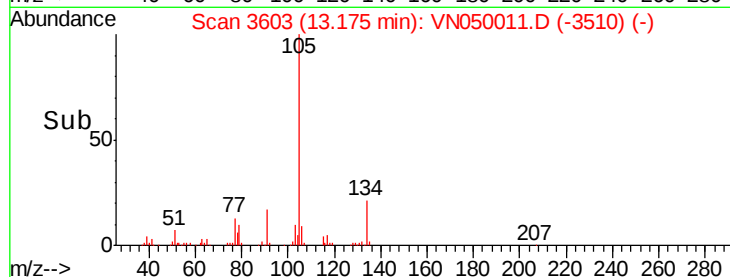
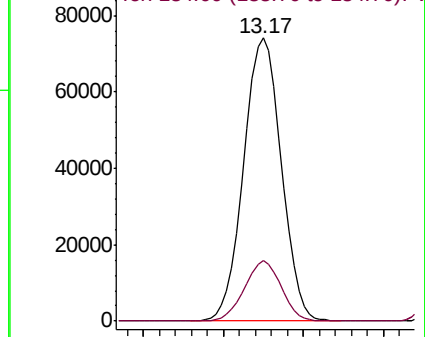
MMDadoda

7/26/2018 1:50:42 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.58 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

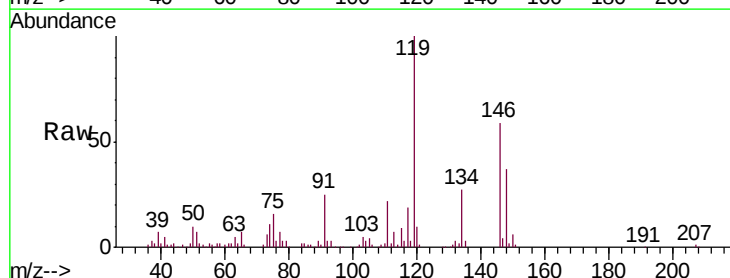
Tgt Ion:119 Resp: 95477

Ion Ratio Lower Upper

119 100

134 25.8 13.3 39.8

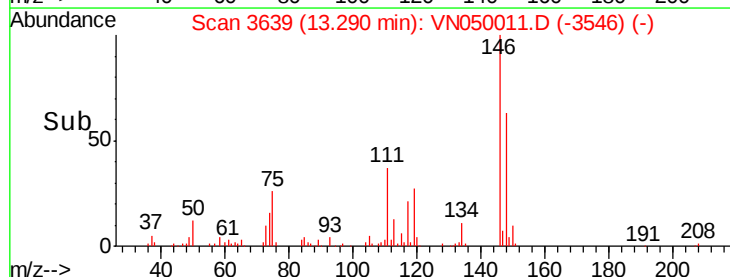
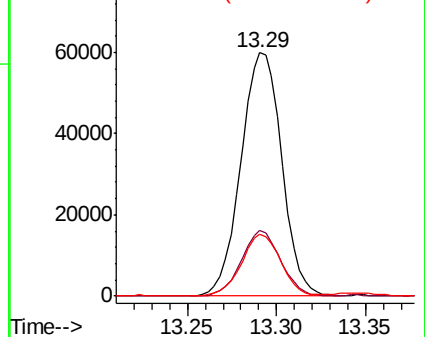
91 24.7 11.4 34.2

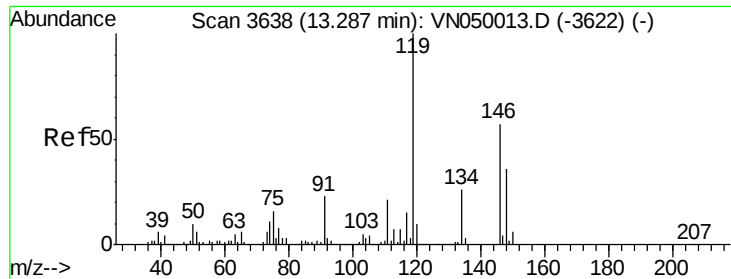


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 5.07 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

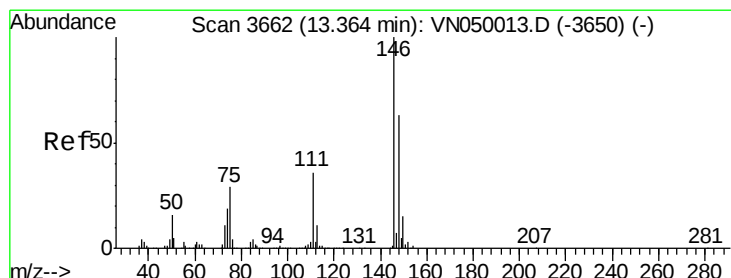
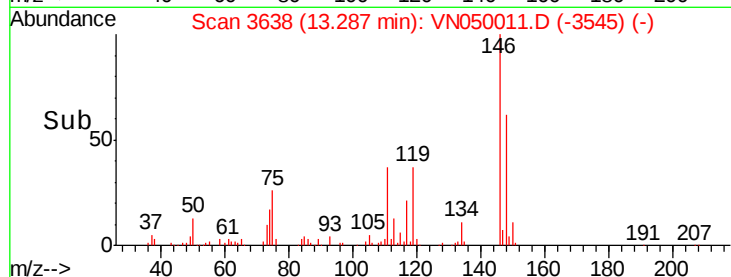
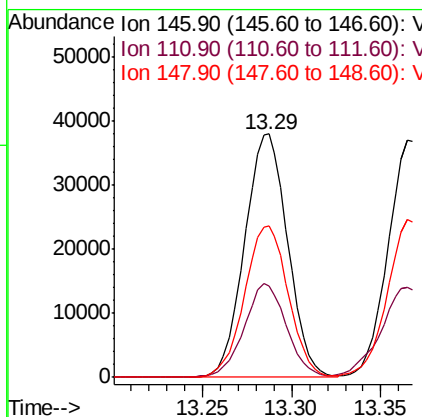
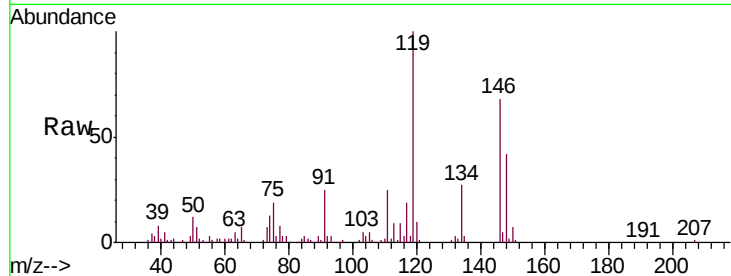
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.4
148	63.1	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM



#88

1,4-Dichlorobenzene

Concen: 4.86 ug/l

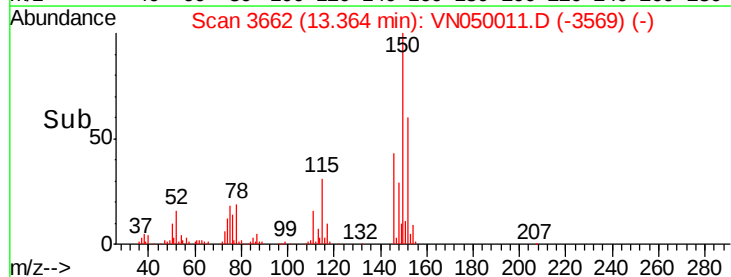
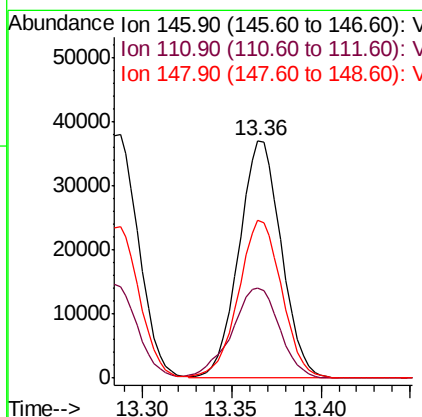
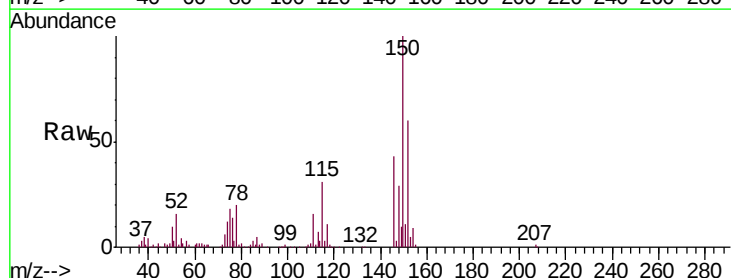
RT: 13.36 min Scan# 3662

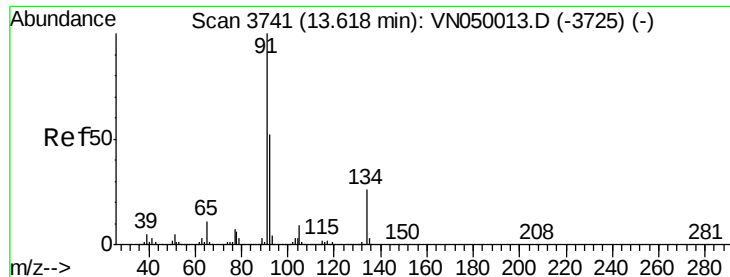
Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.2	18.3	54.9
148	67.9	31.9	95.9





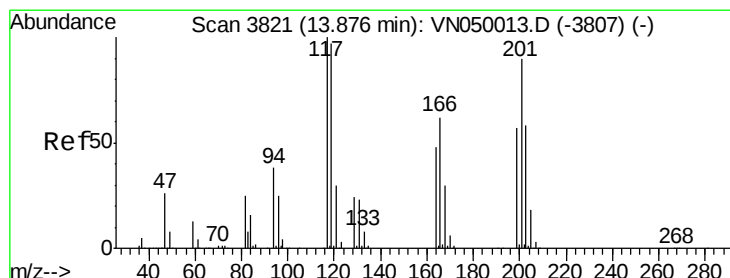
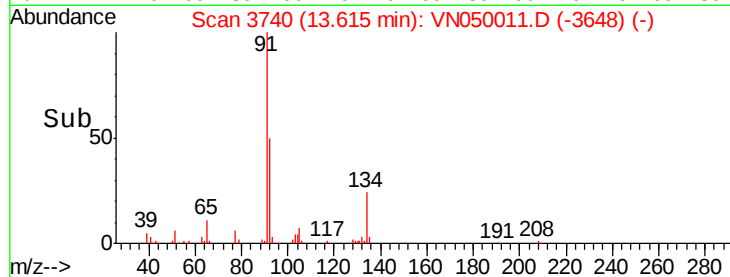
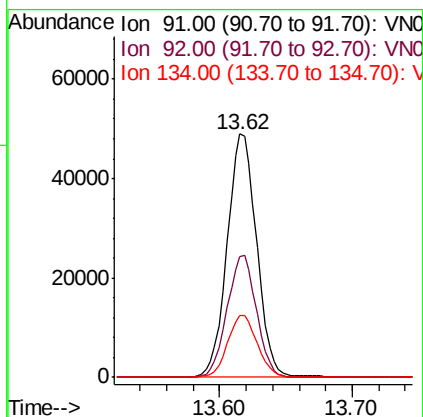
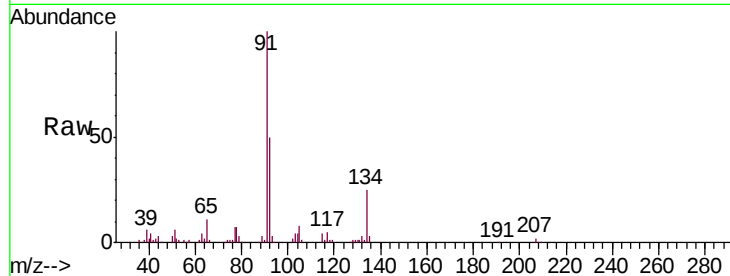
#89
n-Butylbenzene
Concen: 4.40 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	49.7	25.8	77.4
134	25.5	12.8	38.4

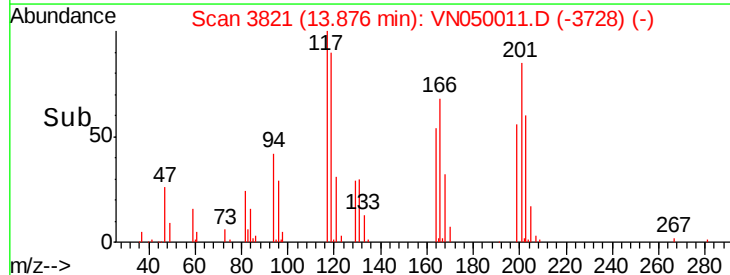
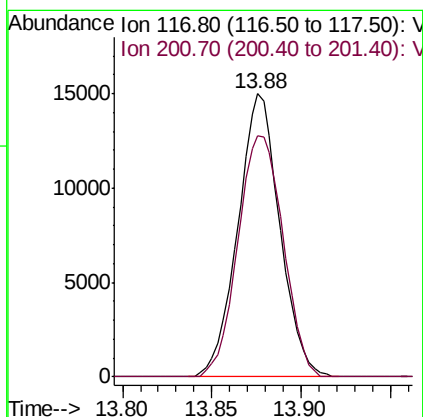
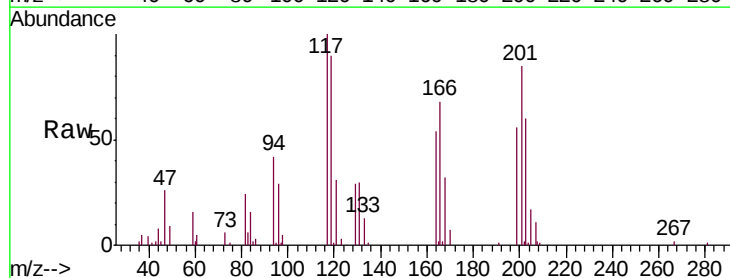
Manual Integrations
APPROVED

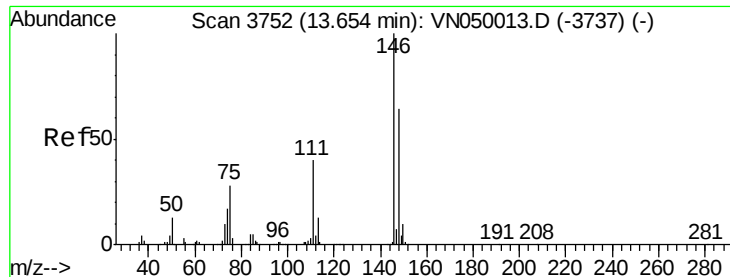
MMDadoda
7/26/2018 1:50:42 PM



#90
Hexachloroethane
Concen: 5.27 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050011.D
Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.8	45.6	136.8





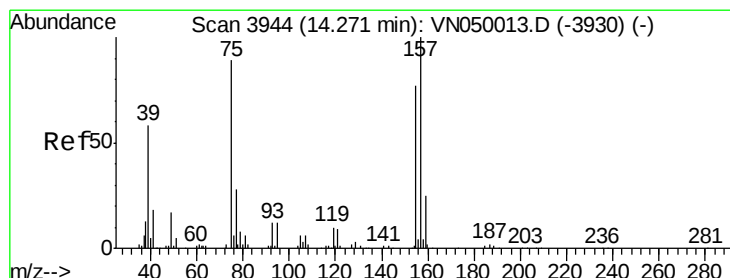
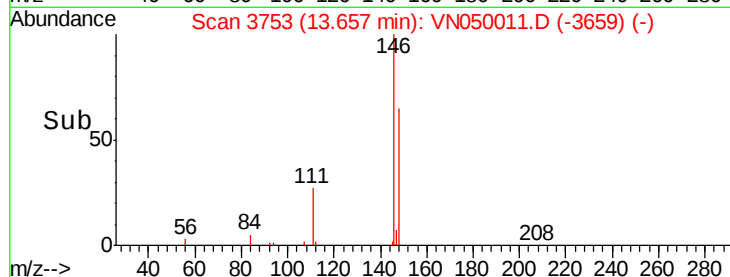
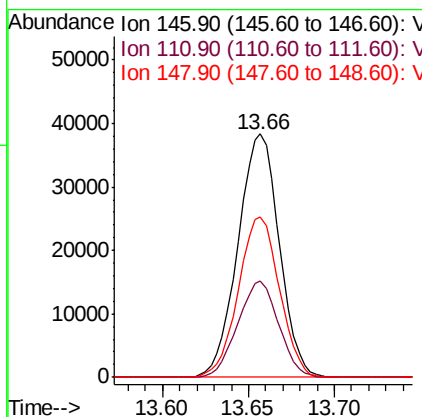
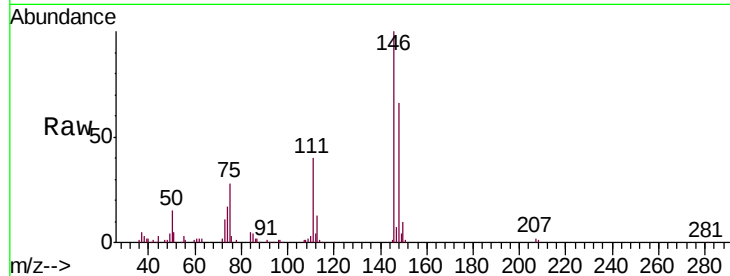
#91
 1,2-Dichlorobenzene
 Concen: 5.14 ug/l
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.7
148	65.6	32.1	96.3

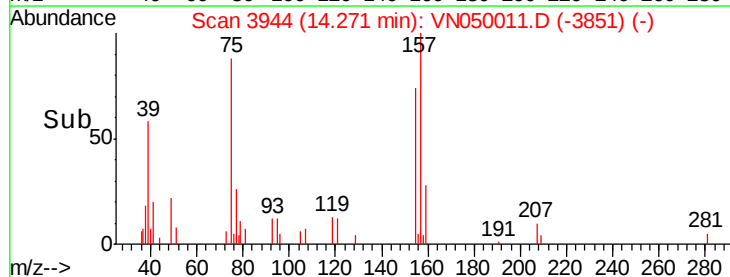
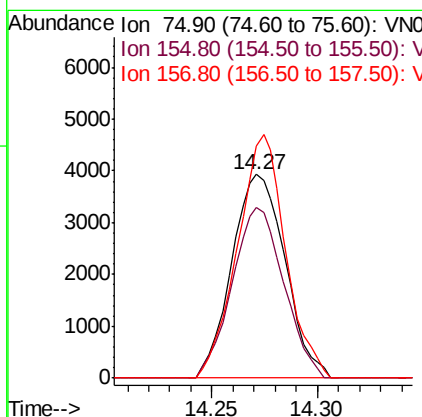
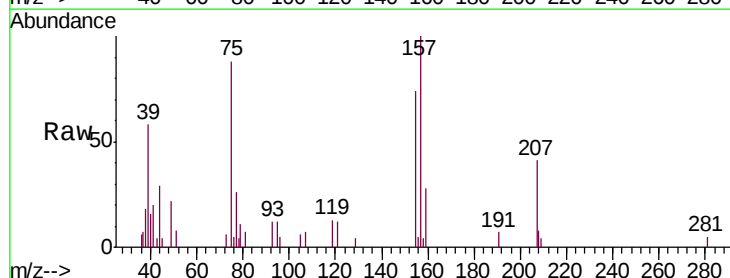
Manual Integrations
 APPROVED

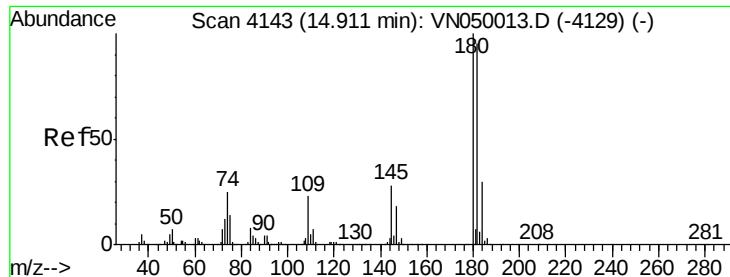
MMDadoda
 7/26/2018 1:50:42 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.63 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.0	44.8	134.4
157	107.4	57.2	171.6





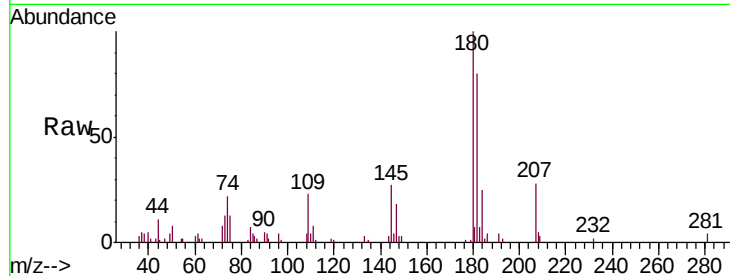
#93
 1,2,4-Trichlorobenzene
 Concen: 3.51 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

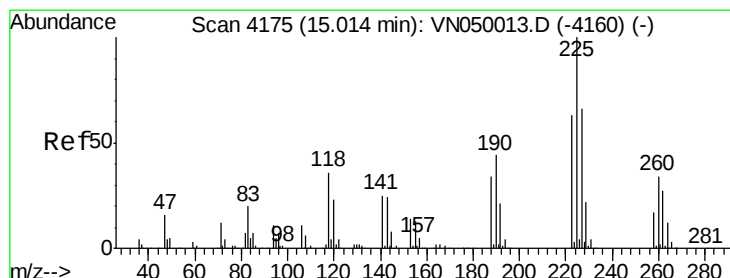
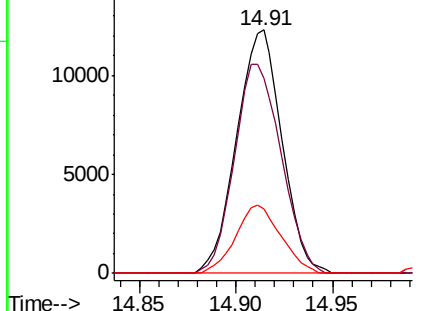
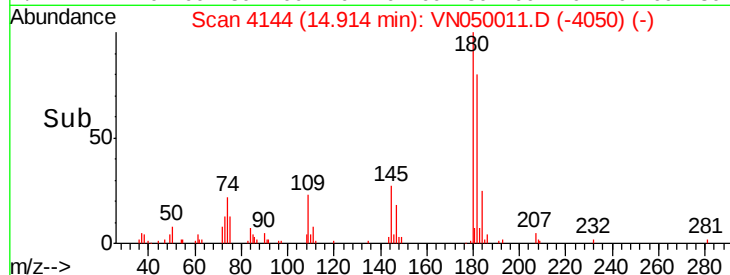
Tot Ion	Ratio	Lower	Upper
180	100		
182	88.7	46.7	140.1
145	28.1	13.8	41.4

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 1:50:42 PM

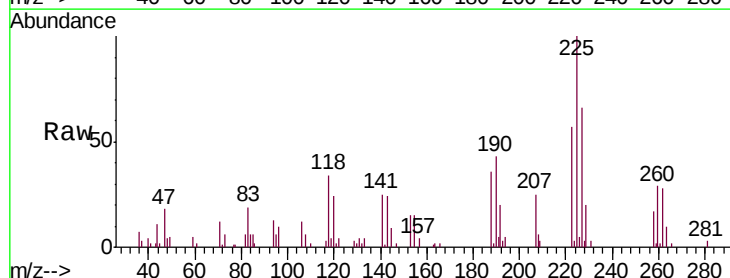


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

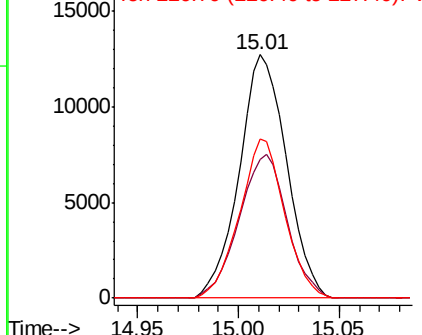
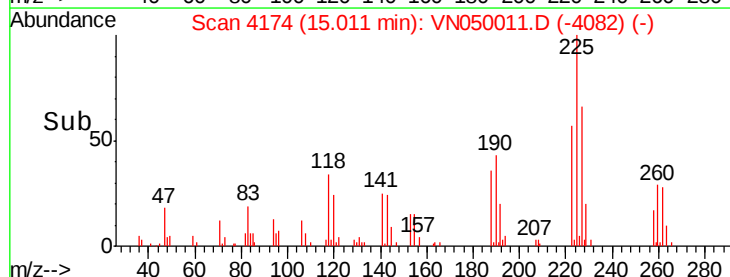


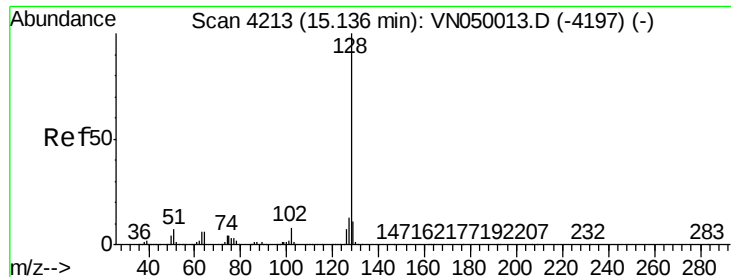
#94
 Hexachlorobutadiene
 Concen: 5.13 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050011.D
 Acq: 23 Jul 2018 17:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.9	31.4	94.2
227	62.4	32.1	96.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.04 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Instrument :

MSVOA_N

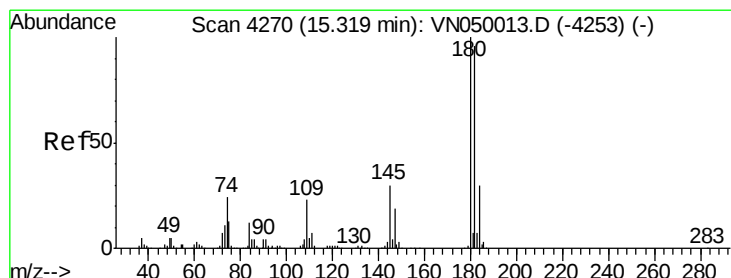
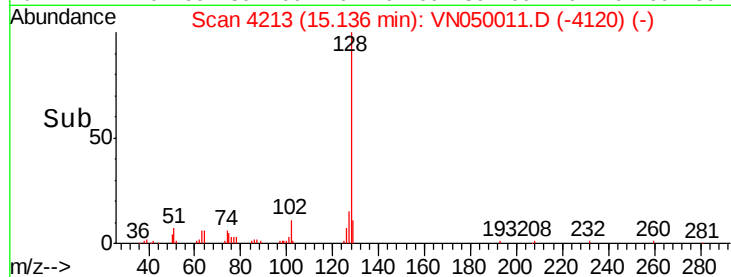
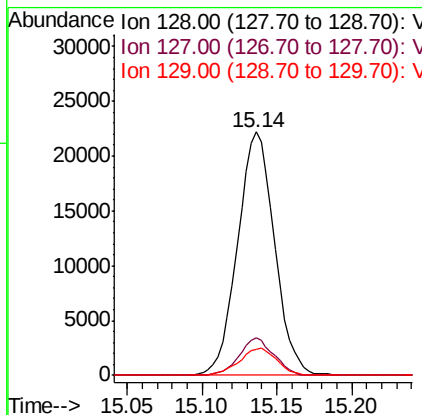
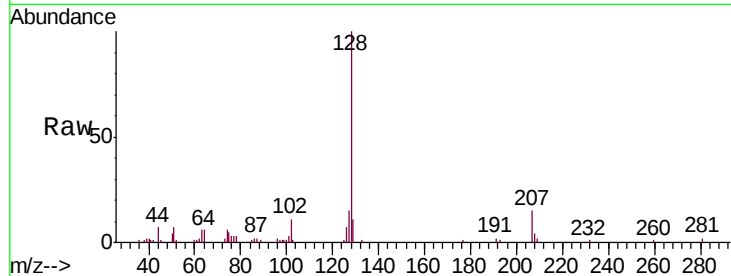
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	38089
Ion Ratio	Lower	Upper	
128	100		
127	14.2	10.4	15.6
129	11.2	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:42 PM



#96

1,2,3-Trichlorobenzene

Concen: 3.70 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN050011.D

Acq: 23 Jul 2018 17:57

Tgt Ion:	180	Resp:	21951
Ion Ratio	Lower	Upper	
180	100		
182	96.6	48.1	144.4
145	31.3	15.3	45.9

