

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050041.D
 Acq On : 25 Jul 2018 10:49
 Operator : MD\SY
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 ICVVN072518

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:07 PM

Quant Time: Jul 26 15:25:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	137836	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	748769	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	651580	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	280045	29.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.63%
60) 4-Bromofluorobenzene	12.40	95	298203	29.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.30%
63) Toluene-d8	10.09	98	934270	30.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.07%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	214007	22.53	ug/l	96
3) Chloromethane	2.06	50	208709	21.31	ug/l	99
4) Vinyl Chloride	2.18	62	220707	21.17	ug/l	99
5) Bromomethane	2.56	94	144696	22.77	ug/l	98
6) Chloroethane	2.70	64	124765	20.23	ug/l	98
7) Trichlorofluoromethane	3.01	101	284588	20.89	ug/l	99
8) Diethyl Ether	3.41	74	95936	20.99	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	173789	20.97	ug/l	100
10) 1,1-Dichloroethene	3.73	96	157760	21.47	ug/l	95
11) Methyl Iodide	3.95	142	191557	17.71	ug/l	99
12) Methyl Acetate	4.33	43	181879	21.61	ug/l	98
13) Acrolein	3.61	56	48556	93.33	ug/l	95
14) Acrylonitrile	4.99	53	293340	104.43	ug/l	99
15) Acetone	3.82	58	80651	108.03	ug/l	98
16) Carbon Disulfide	4.05	76	487147	21.66	ug/l	99
17) Allyl chloride	4.32	41	246884	21.27	ug/l	98
18) Methylene Chloride	4.55	84	175357	20.68	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	167927	21.34	ug/l	99
20) Diisopropyl ether	5.96	45	503999	21.18	ug/l	99
21) 1,1-Dichloroethane	5.85	63	310122	20.73	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	181530	20.80	ug/l	99
23) tert-Butyl Alcohol	4.80	59	66632	106.16	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	420271	20.97	ug/l	99
25) Chloroform	7.37	83	311532	20.57	ug/l	100
26) Cyclohexane	7.65	56	251154	21.12	ug/l #	100
29) 1,1-Dichloropropene	7.79	75	235710	20.28	ug/l	99
30) 2-Butanone	6.84	43	359280	98.53	ug/l	99
31) 2,2-Dichloropropane	6.83	77	256882	20.00	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	267556	19.56	ug/l	99
33) Carbon Tetrachloride	7.77	117	233820	19.18	ug/l	97
34) Benzene	8.04	78	693846	19.66	ug/l	99
35) Methacrylonitrile	7.18	41	79324	19.11	ug/l	98
36) 1,2-Dichloroethane	8.13	62	226065	19.51	ug/l	99
37) Trichloroethene	8.84	130	186622	20.16	ug/l	95
38) Methylcyclohexane	9.08	83	248152	20.26	ug/l	99
39) 1,2-Dichloropropane	9.12	63	181124	19.48	ug/l	99
40) Dibromomethane	9.21	93	112803	19.63	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050041.D
 Acq On : 25 Jul 2018 10:49
 Operator : MD\SY
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:07 PM

Quant Time: Jul 26 15:25:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	234335	19.33	ug/l	97
42) Vinyl Acetate	5.90	43	1705854	99.41	ug/l	99
43) Ethyl Acetate	6.93	43	151090	19.84	ug/l	93
44) Isopropyl Acetate	8.17	43	291588	20.67	ug/l	94
45) 1,4-Dioxane	9.20	88	38610	415.97	ug/l	97
46) Methyl methacrylate	9.20	41	132143	19.33	ug/l	99
47) n-amyl Acetate	12.07	43	204894	18.67	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	228879	19.81	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	269013	19.82	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	159335	19.32	ug/l	99
51) Ethyl methacrylate	10.43	69	188762	18.86	ug/l	99
52) 1,3-Dichloropropane	10.71	76	263902	19.49	ug/l	99
53) Dibromochloromethane	10.90	129	177105	18.92	ug/l	100
54) 1,2-Dibromoethane	11.01	107	158300	19.60	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	432457	95.45	ug/l	99
56) Bromoform	12.13	173	122212	18.49	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	768299	101.34	ug/l	99
59) 2-Hexanone	10.75	43	522137	100.95	ug/l	99
61) Tetrachloroethene	10.63	164	175864	19.93	ug/l	97
62) Toluene	10.16	91	738611	19.87	ug/l	99
64) Chlorobenzene	11.44	112	457171	20.28	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	170974	19.44	ug/l	99
66) Ethyl Benzene	11.51	91	762278	20.06	ug/l	100
67) m/p-Xylenes	11.62	106	599061	40.97	ug/l	99
68) o-Xylene	11.95	106	281241	20.22	ug/l	100
69) Styrene	11.97	104	447650	20.07	ug/l	99
70) Isopropylbenzene	12.25	105	758778	20.48	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	198846	19.55	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	161778m	18.62	ug/l	
73) Bromobenzene	12.53	156	197190	19.98	ug/l	99
74) n-propylbenzene	12.59	91	883964	20.49	ug/l	99
75) 2-Chlorotoluene	12.68	91	526427	20.31	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	627518	20.62	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	53031	18.67	ug/l	94
78) 4-Chlorotoluene	12.78	91	523151	20.37	ug/l	99
79) tert-butylbenzene	12.99	119	532720	20.48	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	640523	20.78	ug/l	100
81) sec-Butylbenzene	13.17	105	734436	20.78	ug/l	99
82) p-Isopropyltoluene	13.29	119	629130	20.86	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	346917	20.19	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	328130	20.21	ug/l	99
85) n-Butylbenzene	13.62	91	491355	20.08	ug/l	99
86) Hexachloroethane	13.88	117	117094	19.43	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	339613	20.22	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32958	20.80	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	169106	21.08	ug/l	99
90) Hexachlorobutadiene	15.01	225	120339	22.75	ug/l	98
91) Naphthalene	15.14	128	367915	22.27	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	177090	21.70	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
Data File : VN050041.D
Acq On : 25 Jul 2018 10:49
Operator : MD\SY
Sample : VSTDICV020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM

Quant Time: Jul 26 15:25:48 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

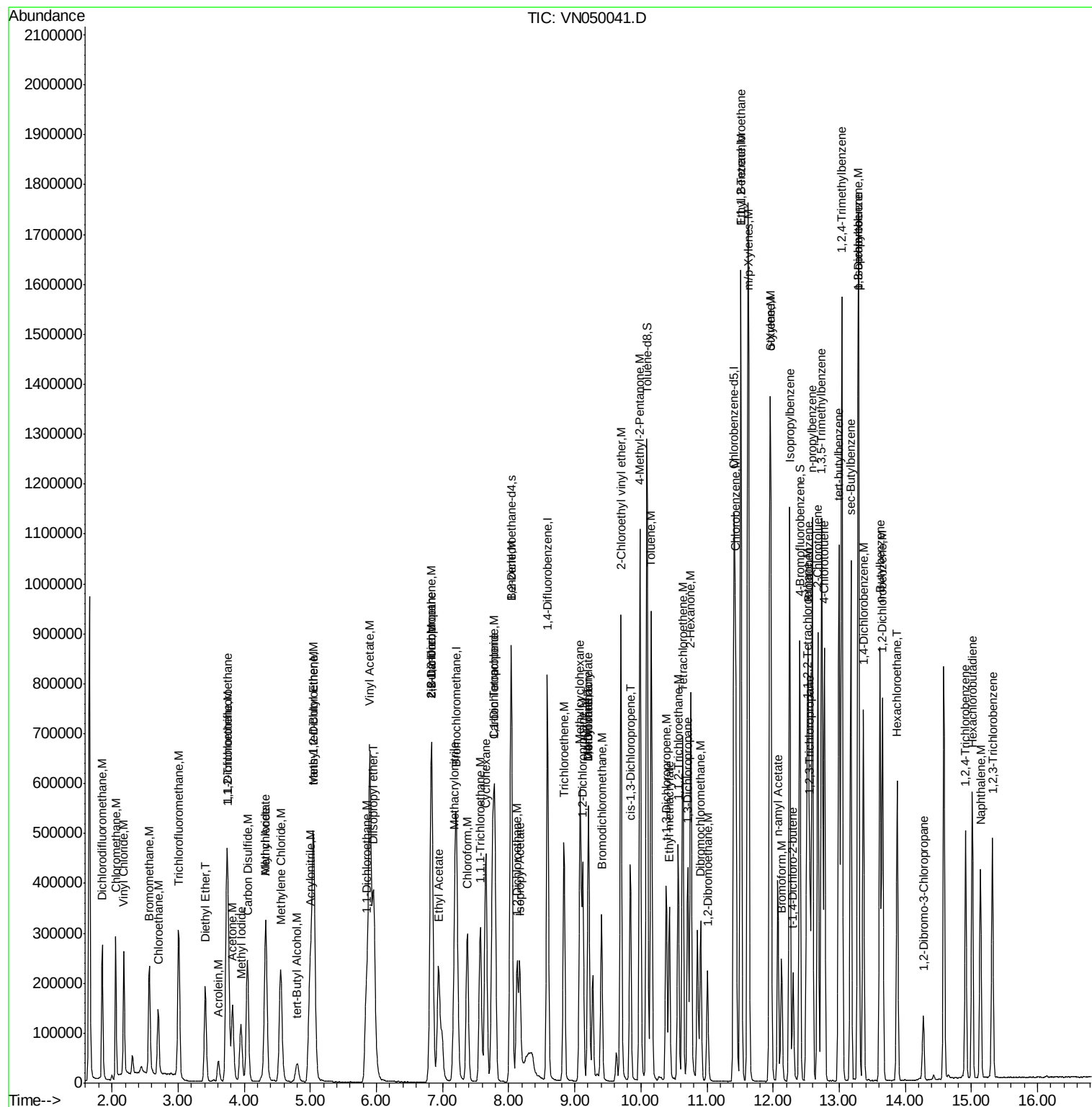
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072518\
Data File : VN050041.D
Acq On : 25 Jul 2018 10:49
Operator : MD\SY
Sample : VSTDICV020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

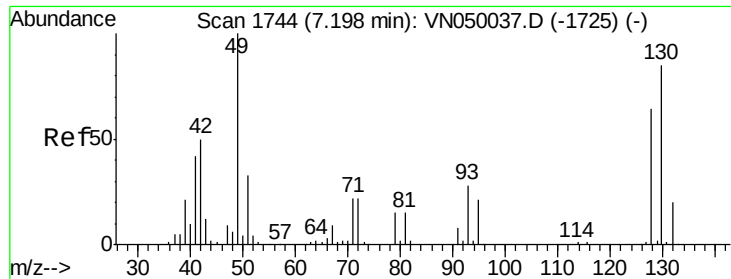
Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM

Quant Time: Jul 26 15:25:48 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

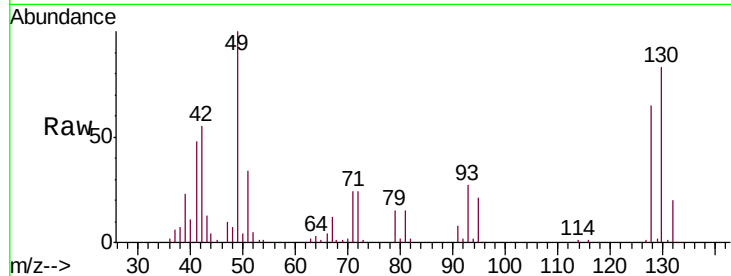
ClientSampleId :

ICVVN072518

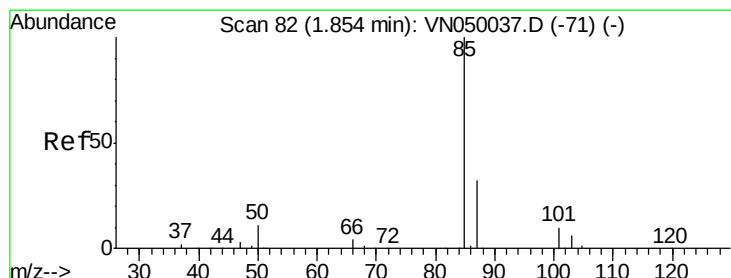
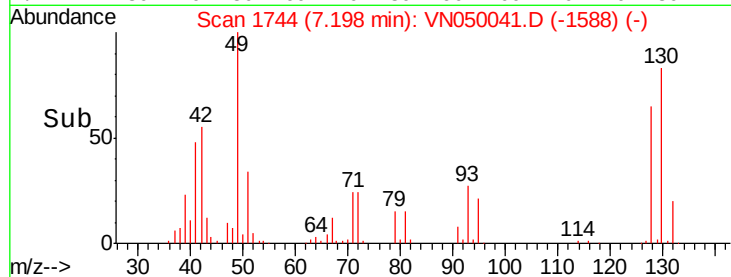
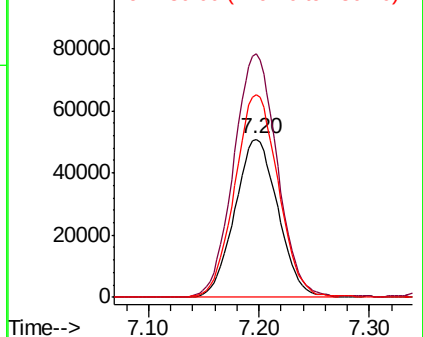
Tot Ion:	128	Resp:	137836
Ion	Ratio	Lower	Upper
128	100		
49	155.3	0.0	378.3
130	129.2	0.0	320.7

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 22.53 ug/l

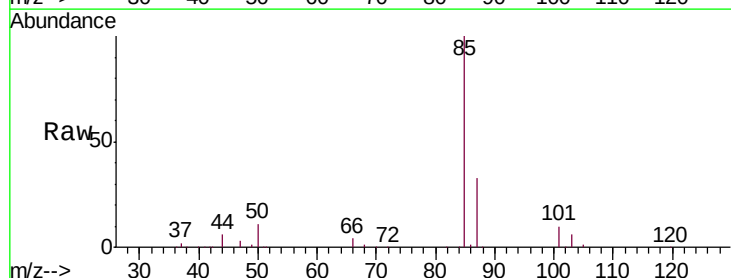
RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

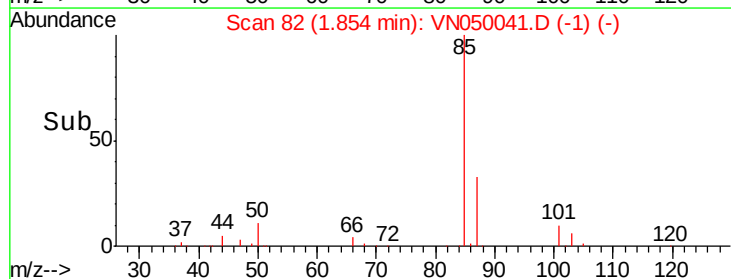
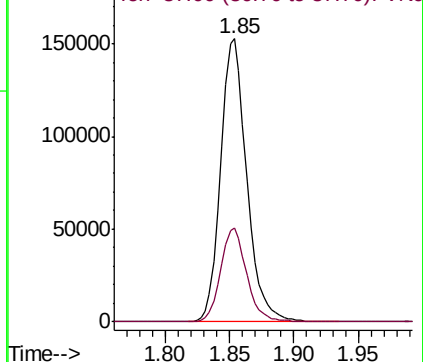
Lab File: VN050041.D

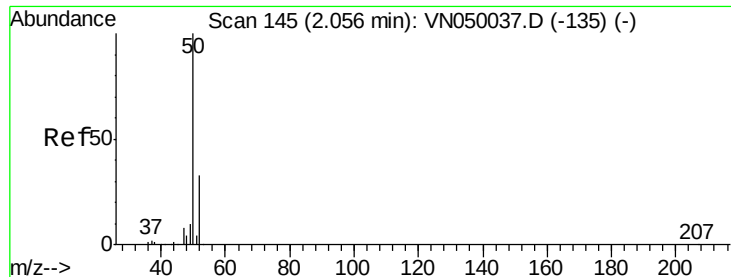
Acq: 25 Jul 2018 10:49

Tgt Ion:	85	Resp:	214007
Ion	Ratio	Lower	Upper
85	100		
87	33.2	15.4	46.4



Abundance Ion 85.00 (84.70 to 85.70): VN
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 21.31 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN072518

Tot Ion: 50 Resp: 208709

Ion Ratio Lower Upper

50 100

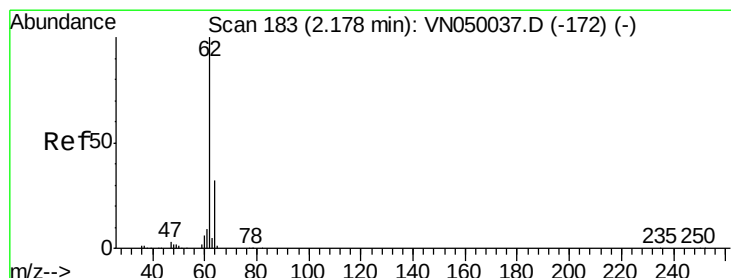
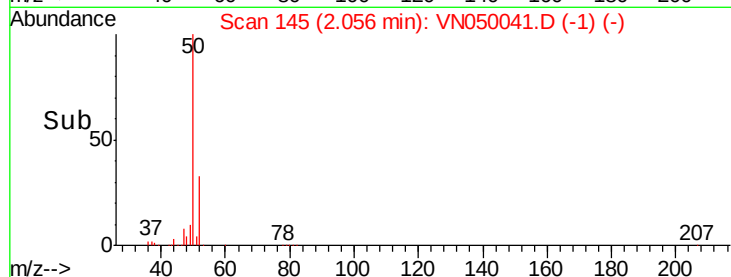
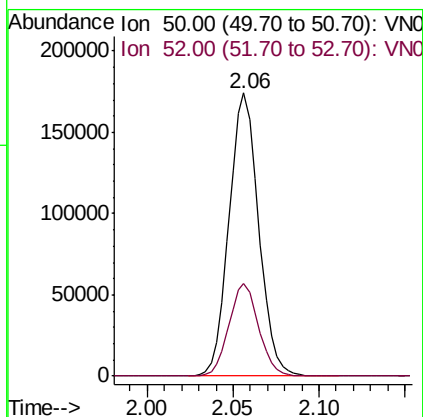
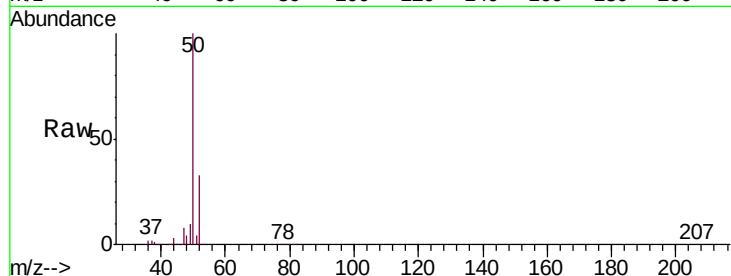
52 33.0 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:54:07 PM



#4

Vinyl Chloride

Concen: 21.17 ug/l

RT: 2.18 min Scan# 183

Delta R.T. 0.00 min

Lab File: VN050041.D

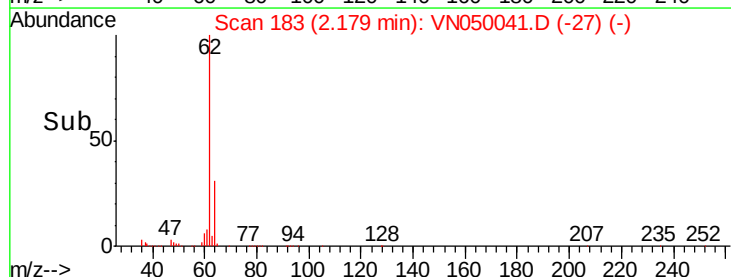
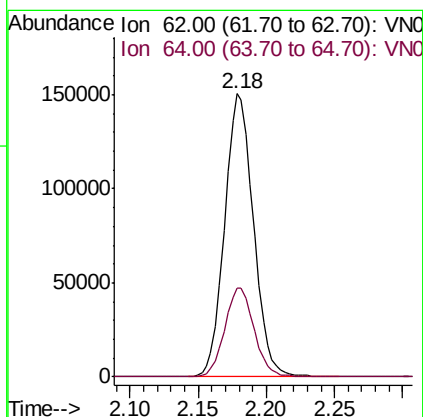
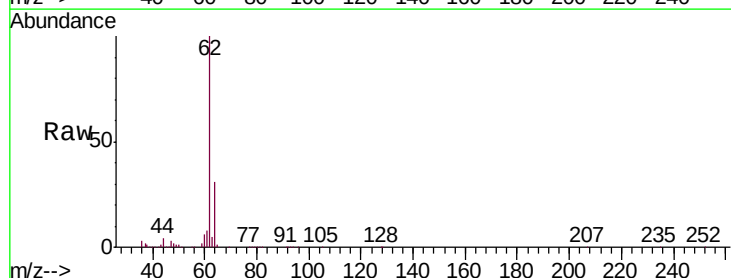
Acq: 25 Jul 2018 10:49

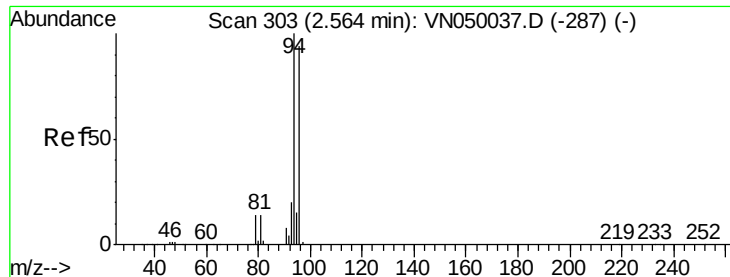
Tgt Ion: 62 Resp: 220707

Ion Ratio Lower Upper

62 100

64 31.3 24.4 36.6





#5

Bromomethane

Concen: 22.77 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN072518

Tot Ion: 94 Resp: 144696

Ion Ratio Lower Upper

94 100

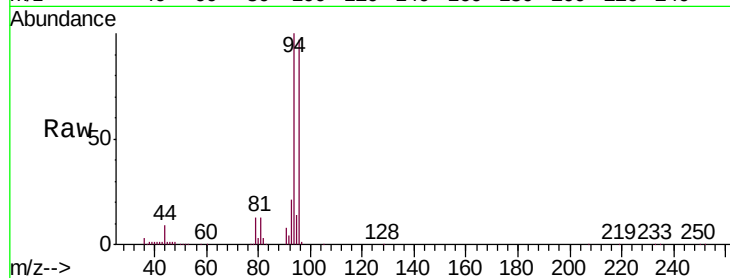
96 96.9 75.9 113.9

Manual Integrations

APPROVED

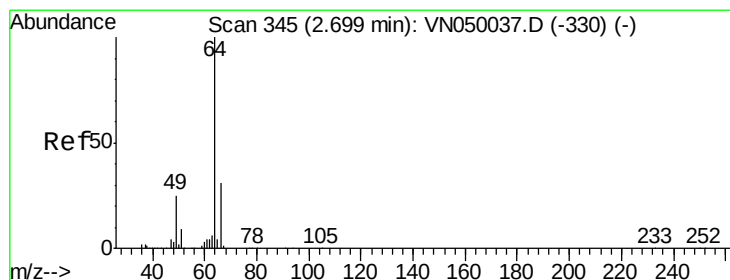
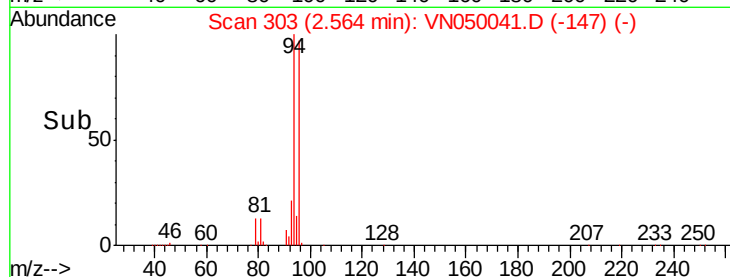
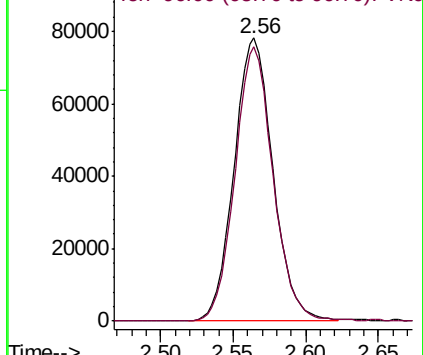
MMDadoda

7/26/2018 3:54:07 PM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 20.23 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050041.D

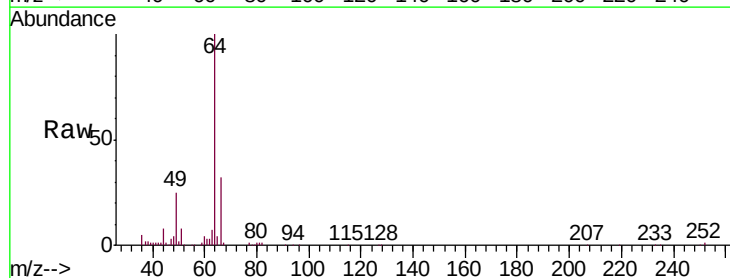
Acq: 25 Jul 2018 10:49

Tgt Ion: 64 Resp: 124765

Ion Ratio Lower Upper

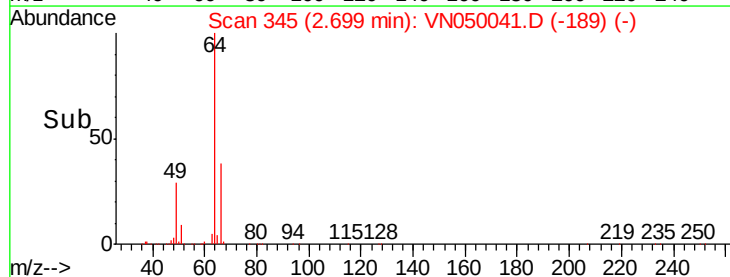
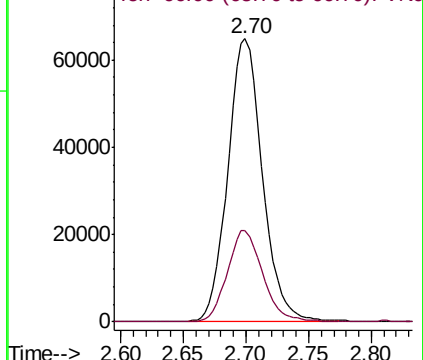
64 100

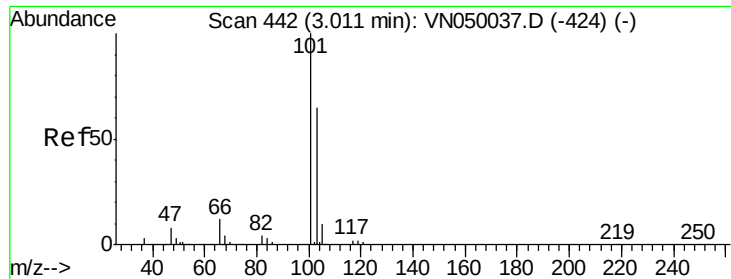
66 32.3 25.0 37.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

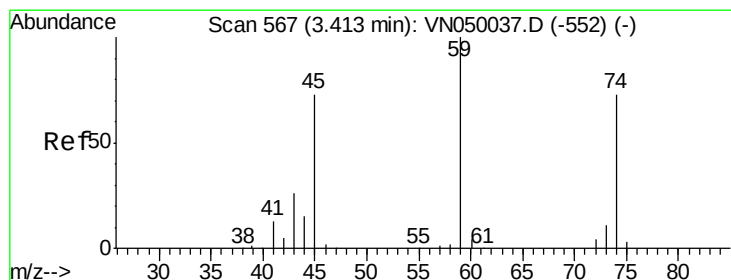
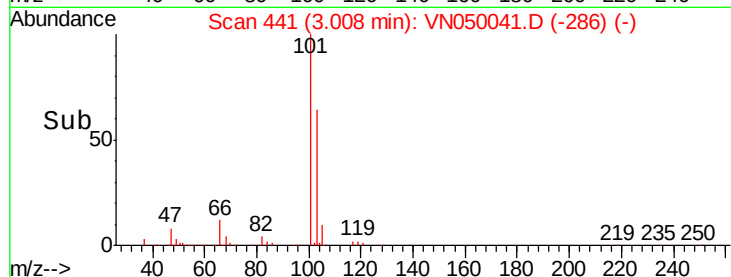
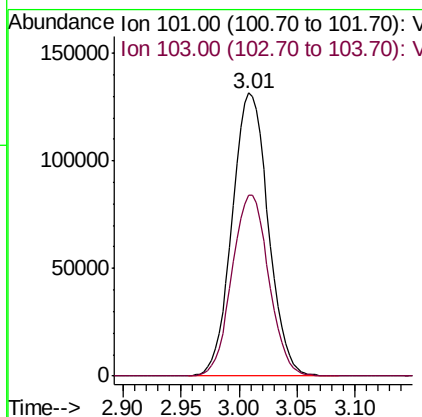
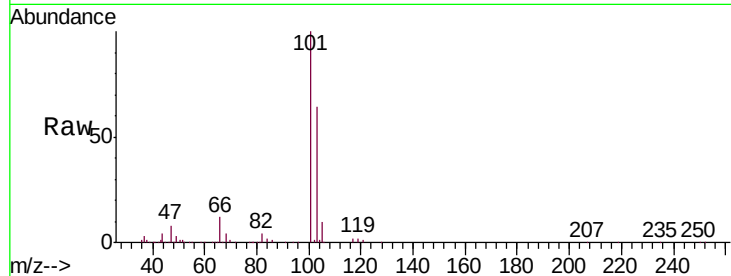
Trichlorofluoromethane
Concen: 20.89 ug/l
RT: 3.01 min Scan# 441
Delta R.T. -0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.5	77.3

Manual Integrations
APPROVED

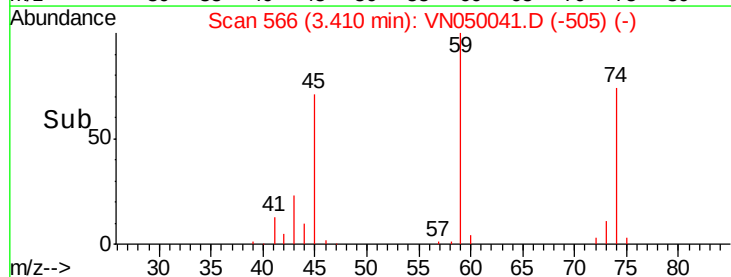
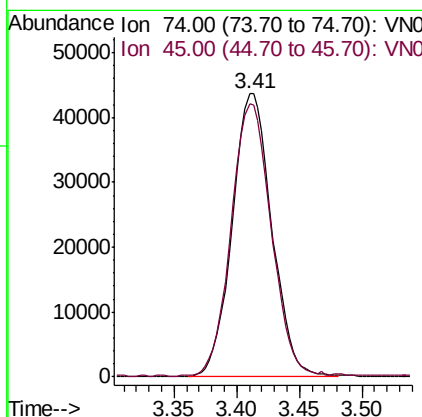
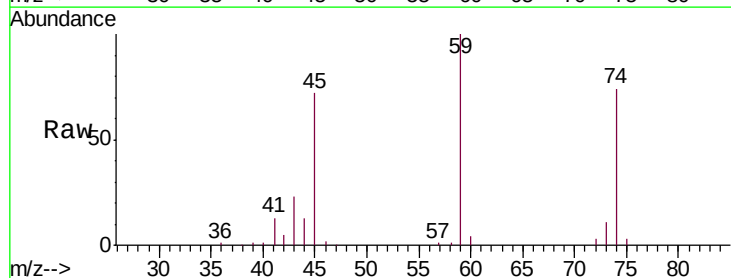
MMDadoda
7/26/2018 3:54:07 PM

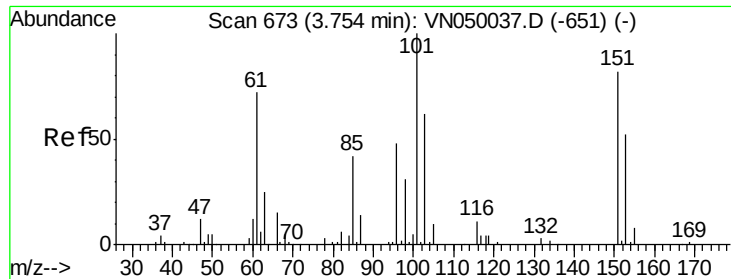


#8

Diethyl Ether
Concen: 20.99 ug/l
RT: 3.41 min Scan# 566
Delta R.T. -0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.0	18.7	167.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.97 ug/l

RT: 3.75 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

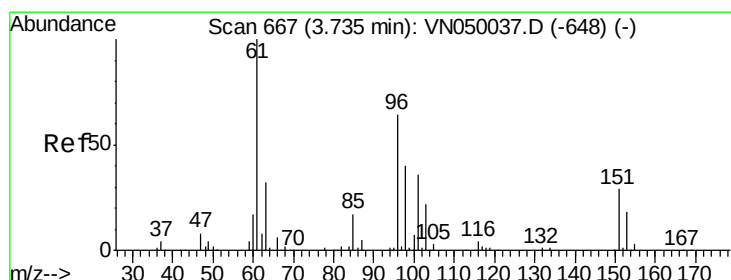
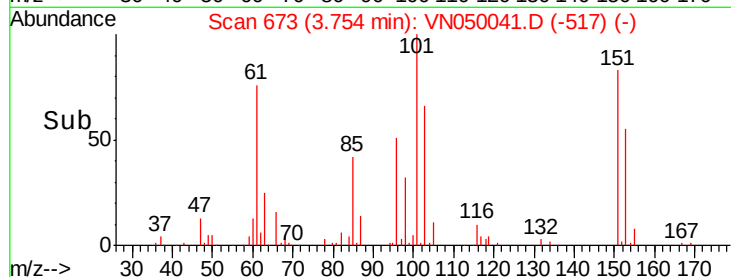
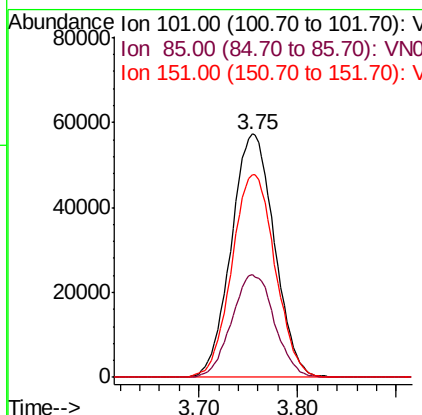
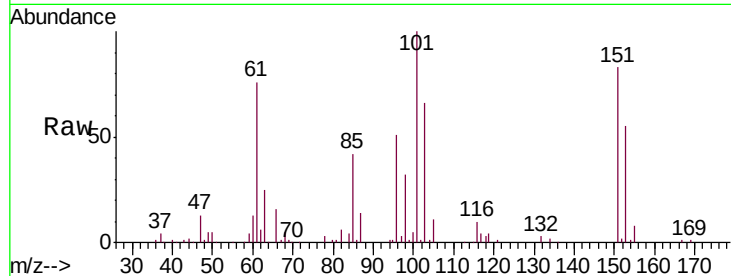
ClientSampleId :

ICVVN072518

Tot Ion:	101	Resp:	173789
Ion Ratio	Lower	Upper	
101	100		
85	41.8	0.0	83.0
151	83.6	0.0	166.8

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



#10

1,1-Dichloroethene

Concen: 21.47 ug/l

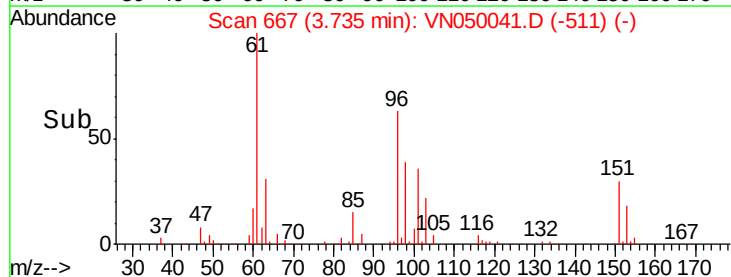
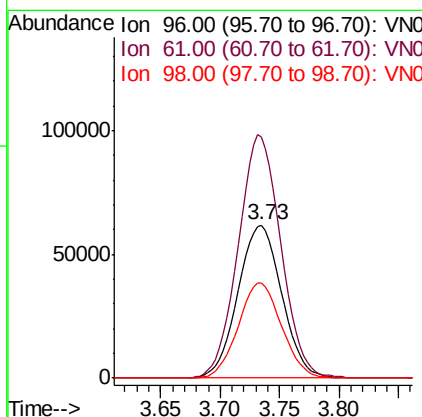
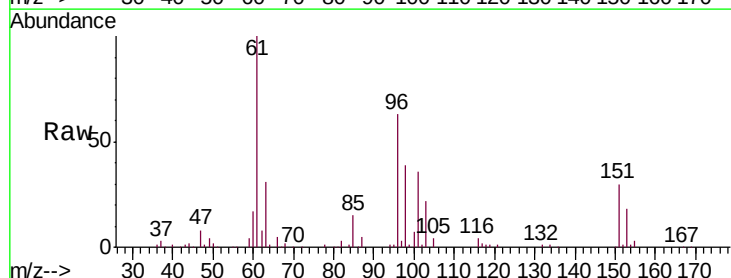
RT: 3.73 min Scan# 667

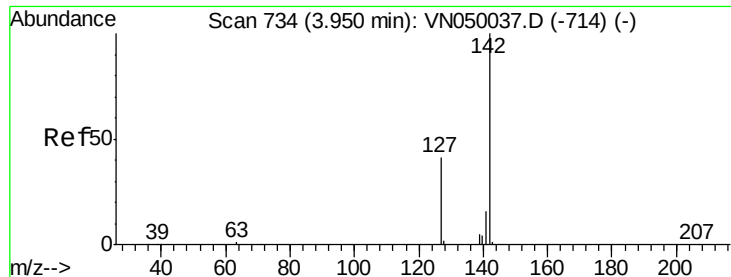
Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Tgt Ion:	96	Resp:	157760
Ion Ratio	Lower	Upper	
96	100		
61	157.3	130.6	195.8
98	62.2	53.5	80.3





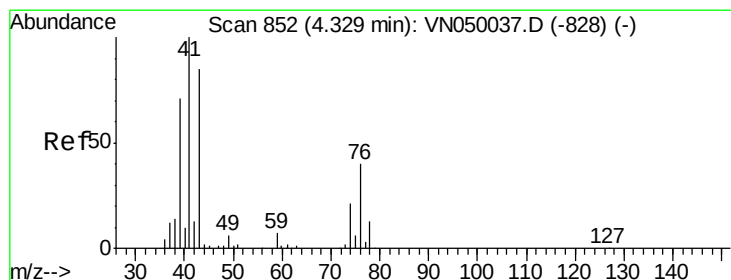
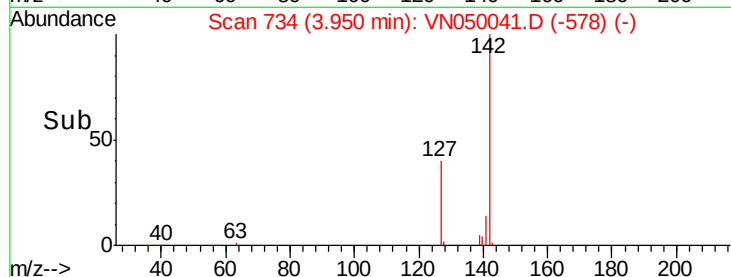
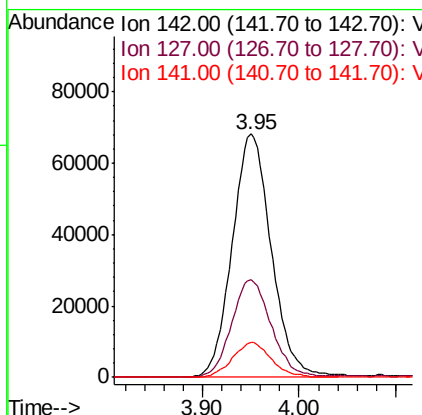
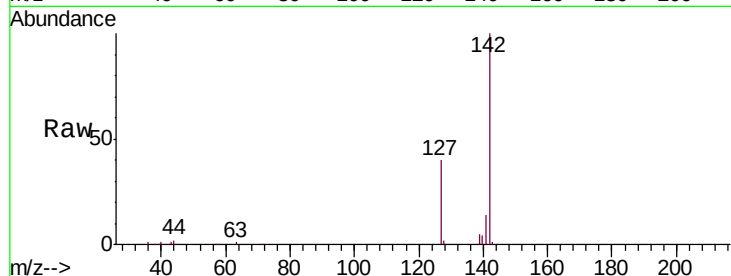
#11
Methvl Iodide
Concen: 17.71 ug/l
RT: 3.95 min Scan# 734
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.8	20.2	60.5
141	14.2	6.9	20.6

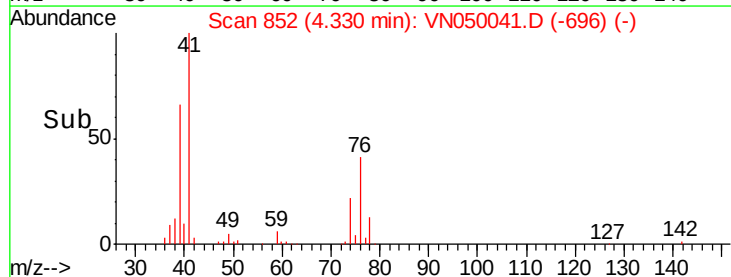
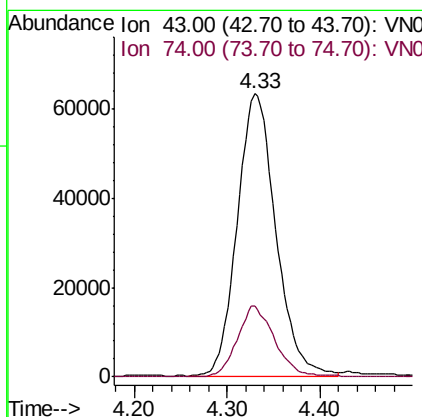
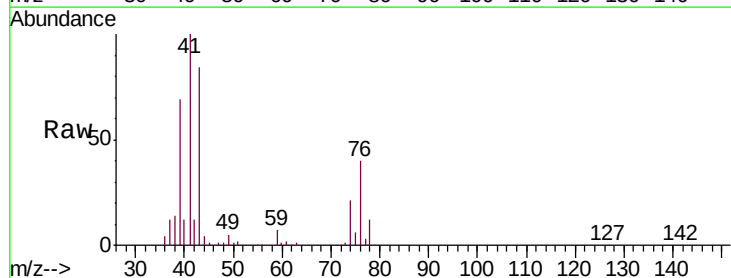
Manual Integrations
APPROVED

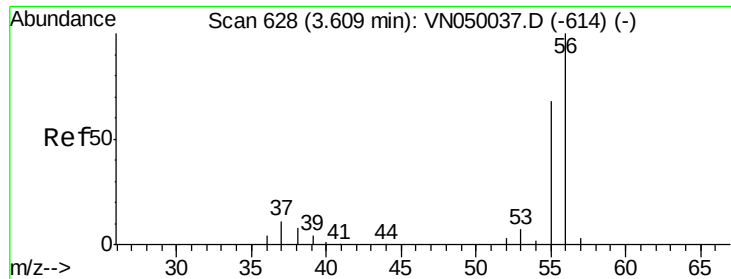
MMDadoda
7/26/2018 3:54:07 PM



#12
Methyl Acetate
Concen: 21.61 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.3	28.9





#13

Acrolein

Concen: 93.33 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN072518

Tot Ion: 56 Resp: 48556

Ion Ratio Lower Upper

56 100

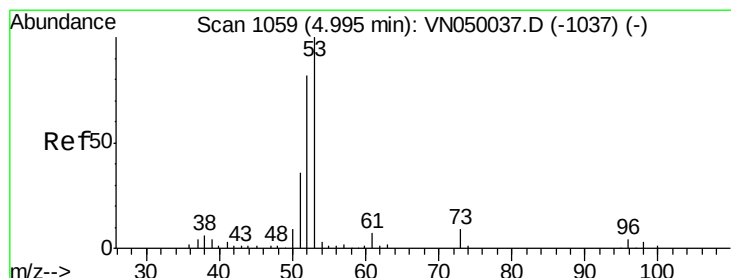
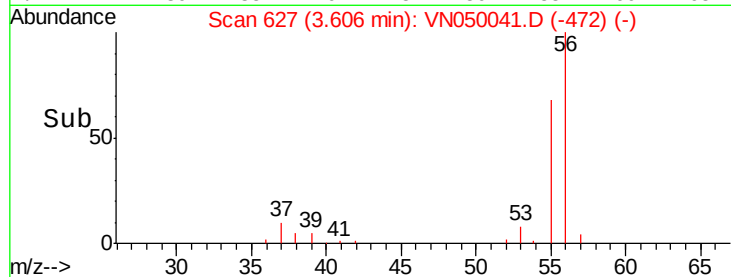
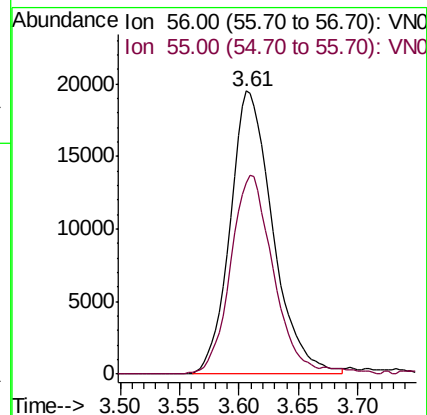
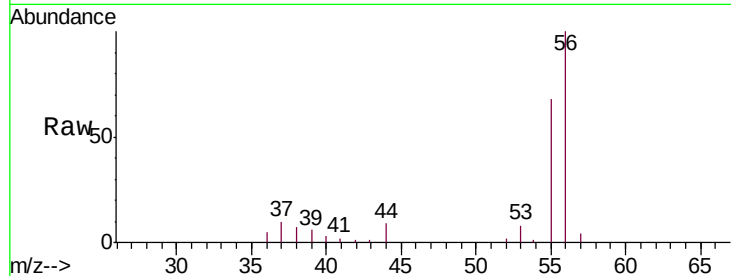
55 69.4 58.6 88.0

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:54:07 PM



#14

Acrylonitrile

Concen: 104.43 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

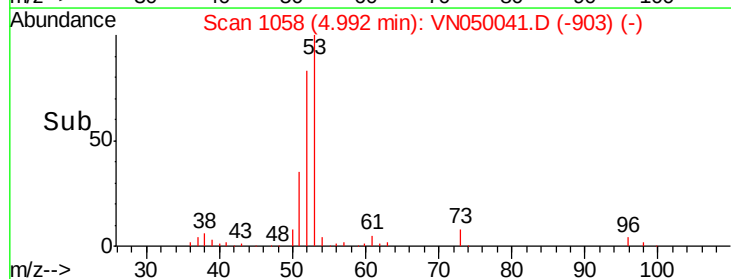
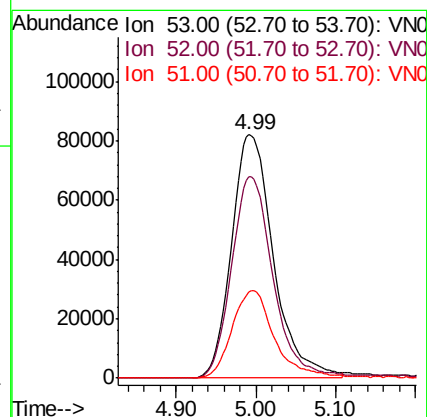
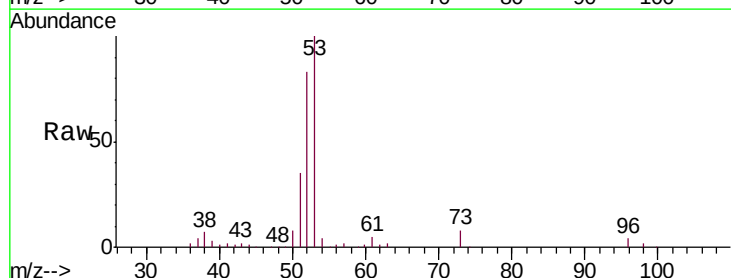
Tgt Ion: 53 Resp: 293340

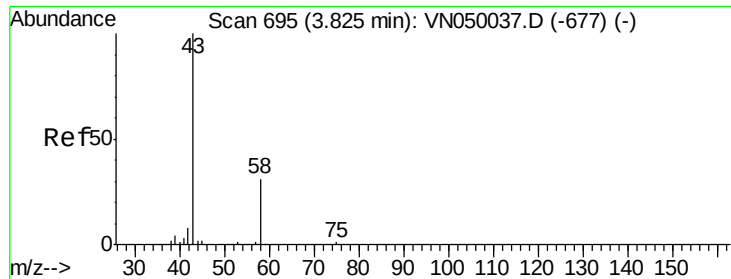
Ion Ratio Lower Upper

53 100

52 81.9 41.5 124.5

51 36.1 18.7 56.1





#15

Acetone

Concen: 108.03 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN072518

Tot Ion: 58 Resp: 80651

Ion Ratio Lower Upper

58 100

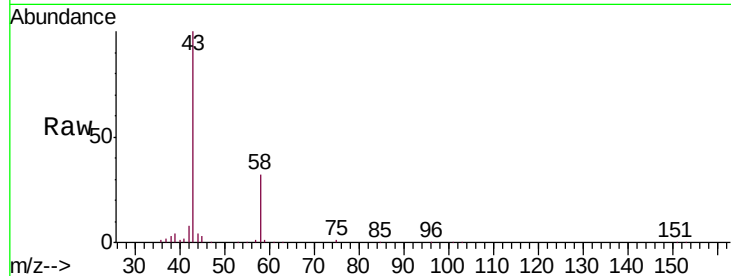
43 310.4 252.0 378.0

Manual Integrations

APPROVED

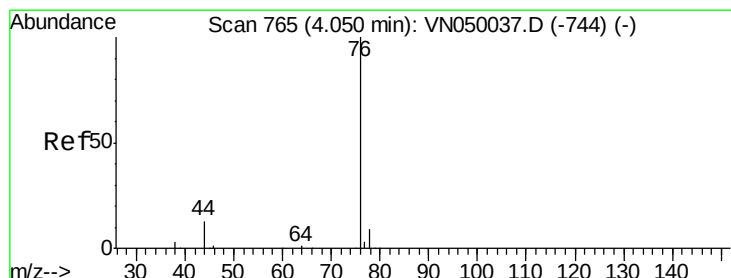
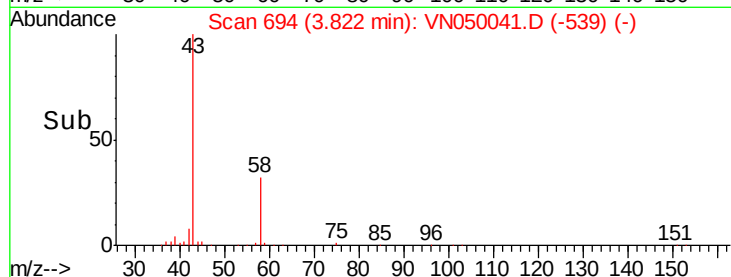
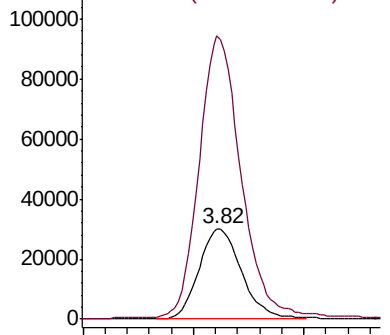
MMDadoda

7/26/2018 3:54:07 PM



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 21.66 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050041.D

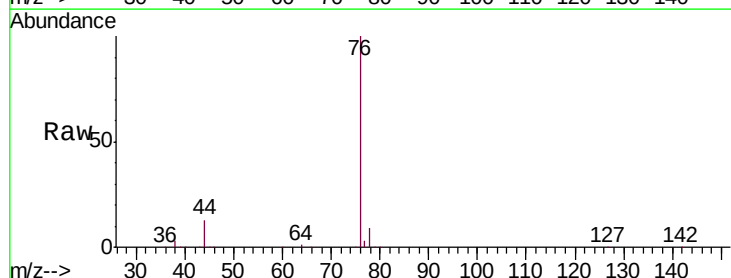
Acq: 25 Jul 2018 10:49

Tgt Ion: 76 Resp: 487147

Ion Ratio Lower Upper

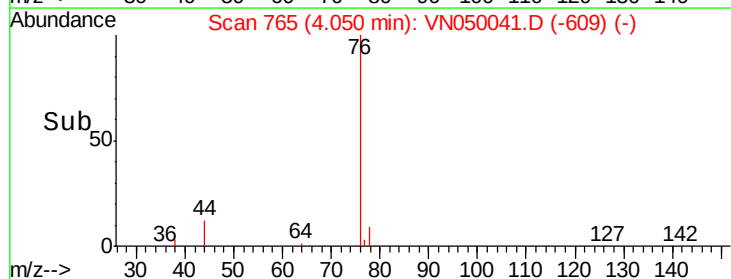
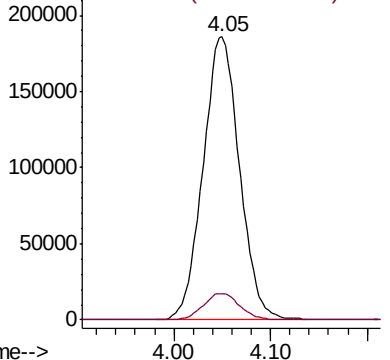
76 100

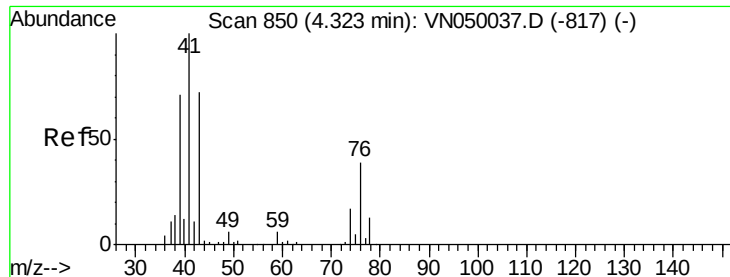
78 9.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





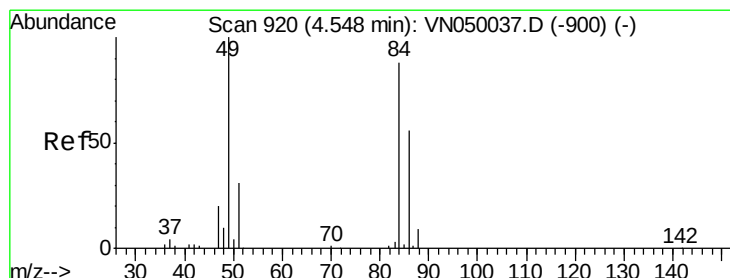
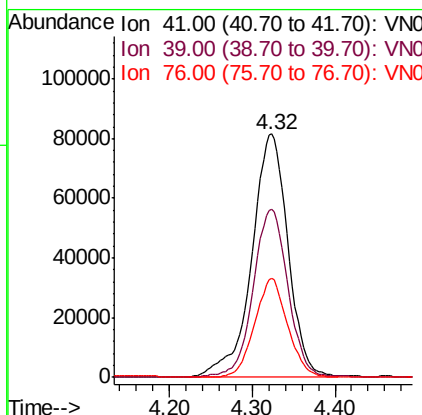
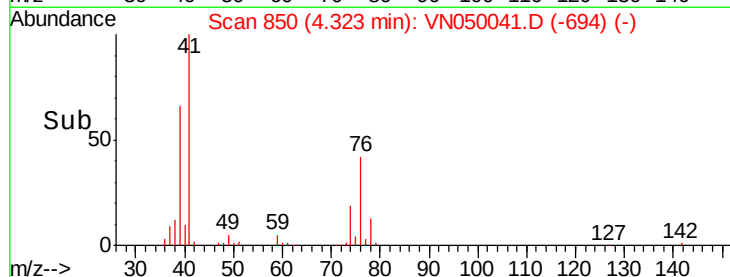
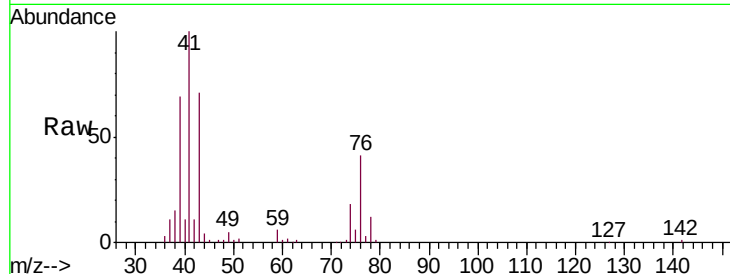
#17
Allvl chloride
Concen: 21.27 ug/l
RT: 4.32 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
41	100		
39	69.5	35.4	106.3
76	40.7	19.7	59.1

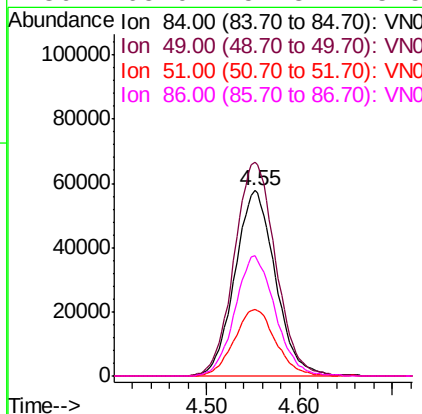
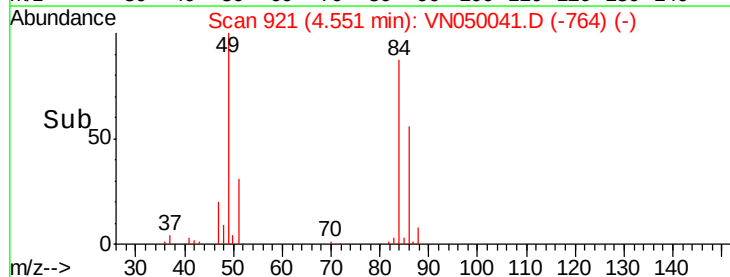
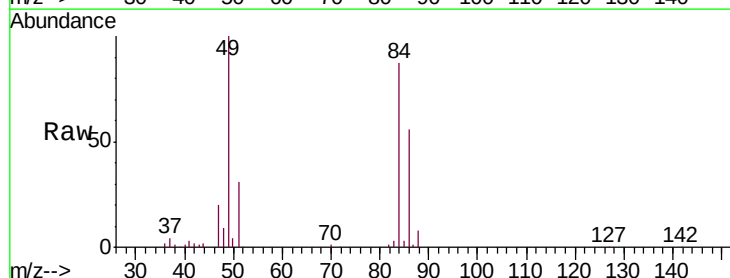
Manual Integrations
APPROVED

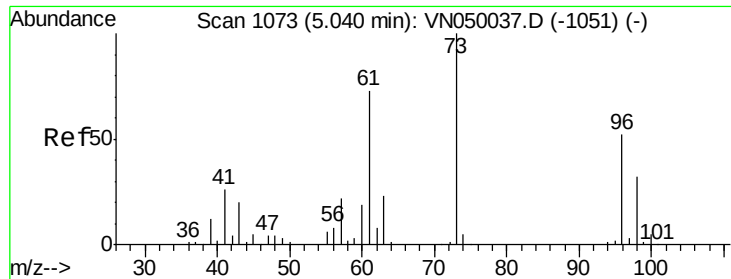
MMDadoda
7/26/2018 3:54:07 PM



#18
Methylene Chloride
Concen: 20.68 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
84	100		
49	115.3	95.1	142.7
51	35.9	28.8	43.2
86	65.0	52.3	78.5





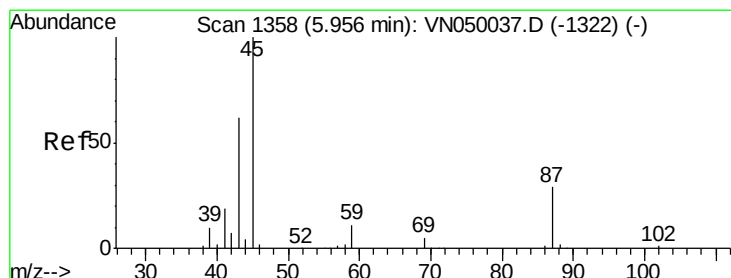
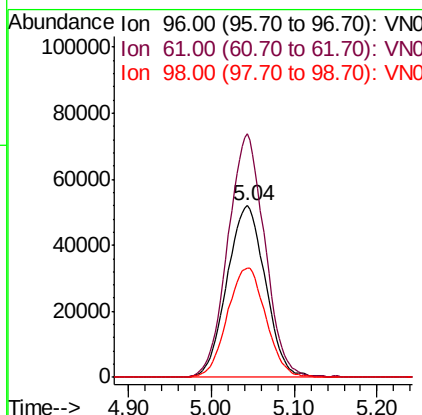
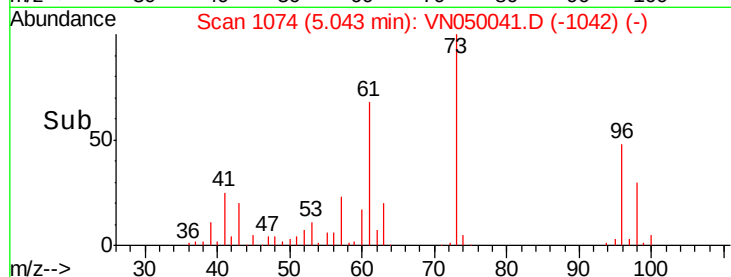
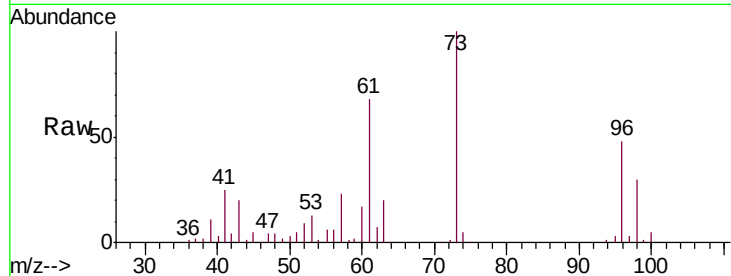
#19
trans-1,2-Dichloroethene
Concen: 21.34 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.4	112.1	168.1
98	63.8	51.3	76.9

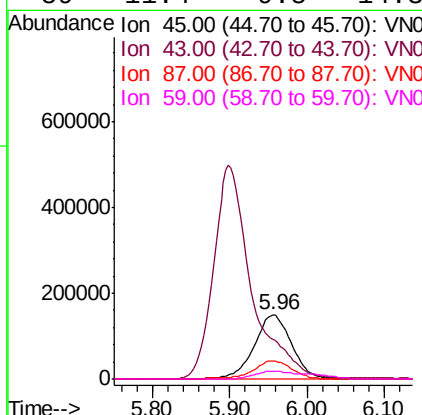
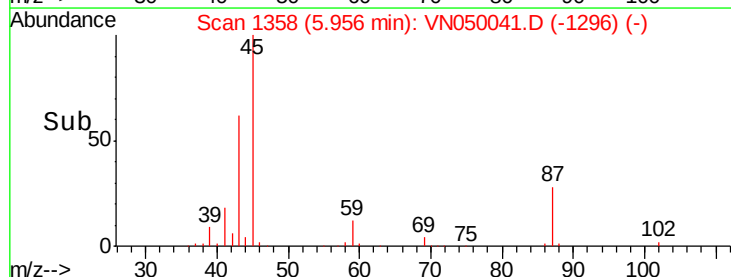
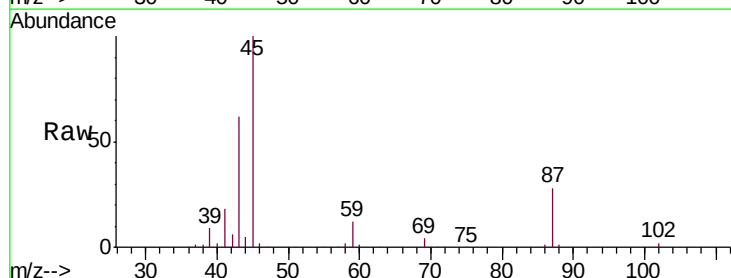
Manual Integrations
APPROVED

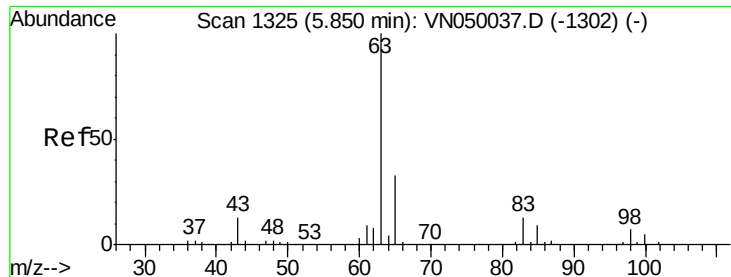
MMDadoda
7/26/2018 3:54:07 PM



#20
Diisopropyl ether
Concen: 21.18 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.3	46.6	70.0
87	28.1	22.3	33.5
59	11.4	9.5	14.3





#21

1,1-Dichloroethane

Concen: 20.73 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

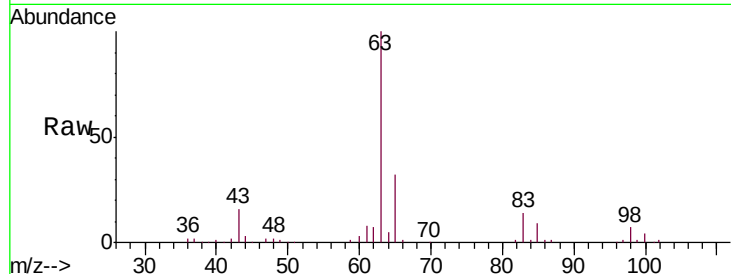
ClientSampleId :

ICVVN072518

Tot Ion:	63	Resp:	310122
Ion Ratio	Lower	Upper	
63	100		
98	6.6	3.5	10.6
100	4.0	2.3	6.8

Manual Integrations
APPROVED

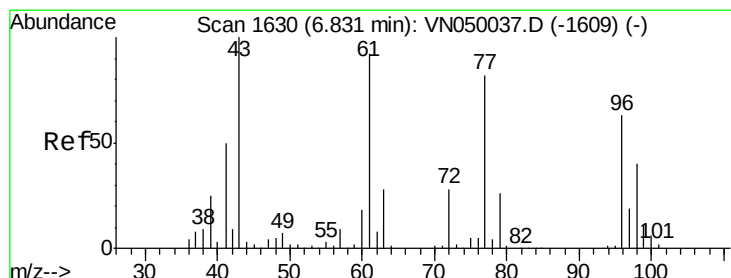
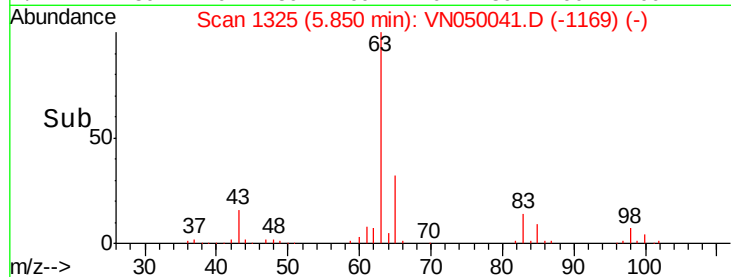
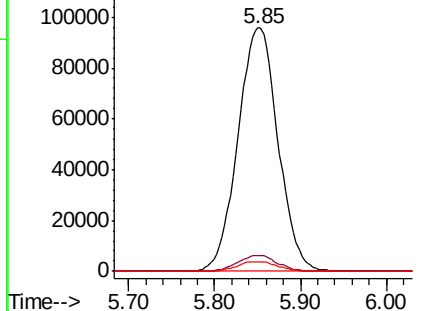
MMDadoda
7/26/2018 3:54:07 PM



Abundance Ion 63.00 (62.70 to 63.70): VN050037.D (-1302) (-)

Ion 98.00 (97.70 to 98.70): VN050037.D (-1302) (-)

Ion 100.00 (99.70 to 100.70): VN050037.D (-1302) (-)



#22

cis-1,2-Dichloroethene

Concen: 20.80 ug/l

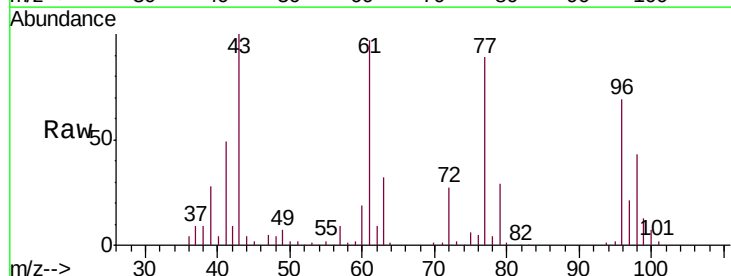
RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

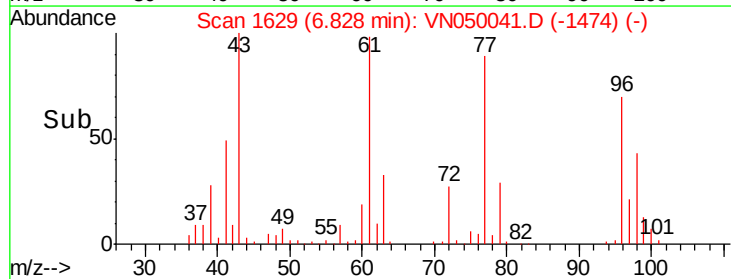
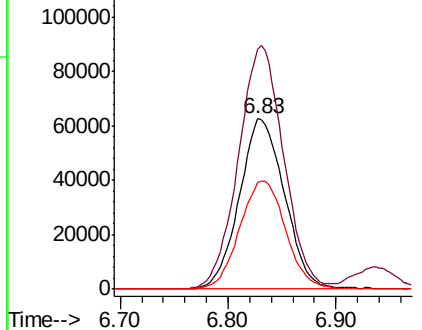
Tgt Ion:	96	Resp:	181530
Ion Ratio	Lower	Upper	
96	100		
61	143.7	114.2	171.2
98	64.8	51.7	77.5

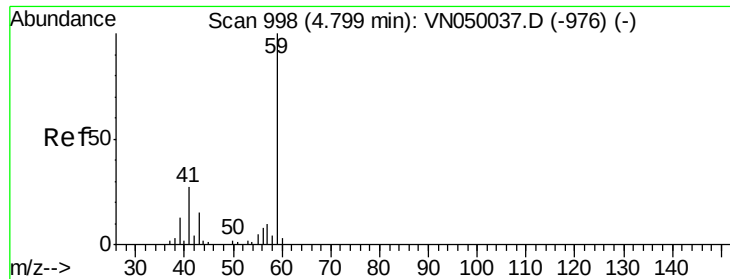


Abundance Ion 96.00 (95.70 to 96.70): VN050037.D (-1609) (-)

Ion 61.00 (60.70 to 61.70): VN050037.D (-1609) (-)

Ion 98.00 (97.70 to 98.70): VN050037.D (-1609) (-)





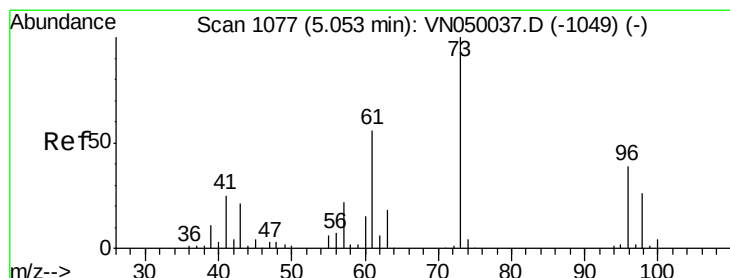
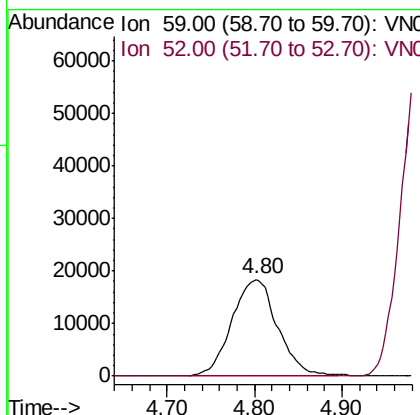
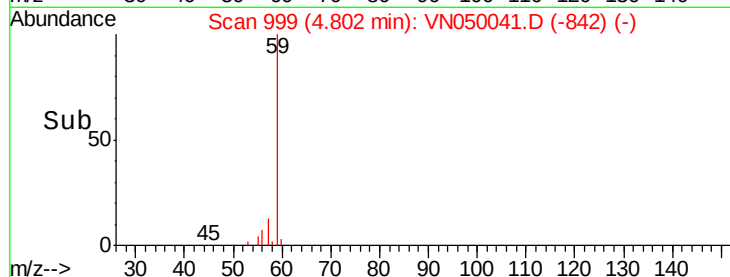
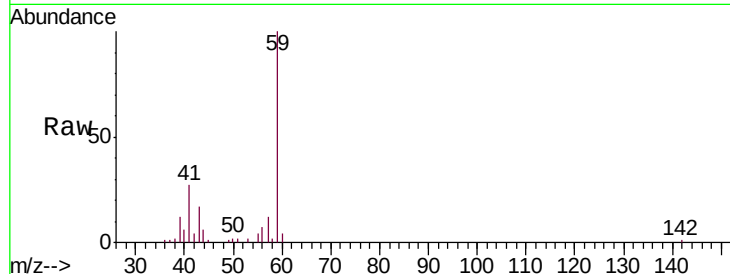
#23
tert-Butyl Alcohol
Concen: 106.16 ug/l
RT: 4.80 min Scan# 999
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion: 59 Resp: 66632
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#

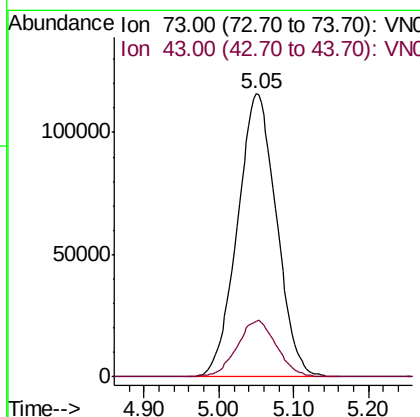
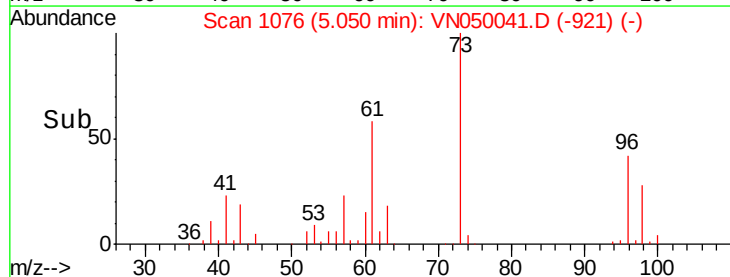
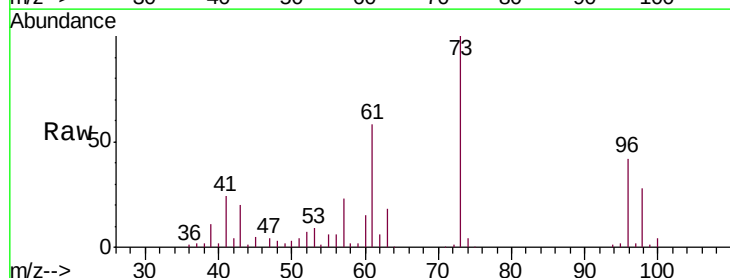
Manual Integrations
APPROVED

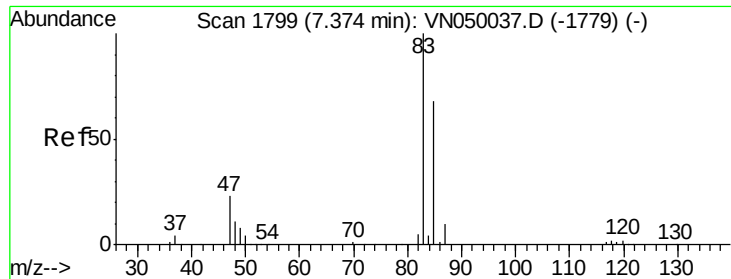
MMDadoda
7/26/2018 3:54:07 PM



#24
Methyl tert-Butyl Ether
Concen: 20.97 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion: 73 Resp: 420271
Ion Ratio Lower Upper
73 100
43 20.0 15.5 23.3





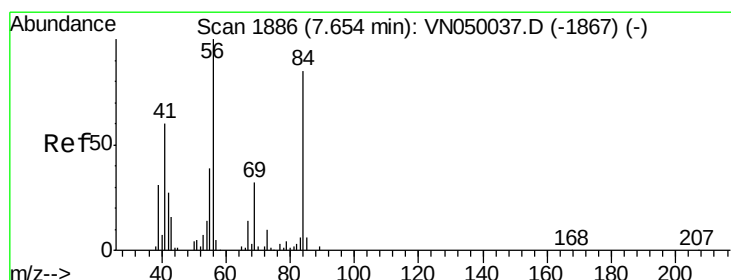
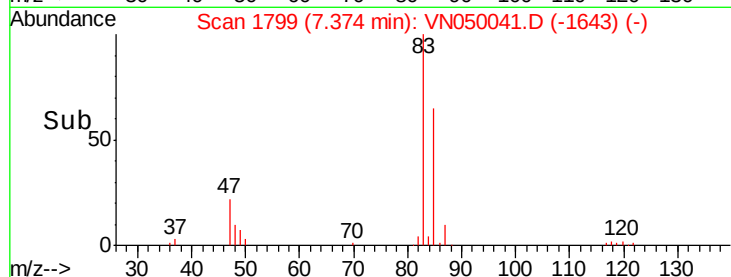
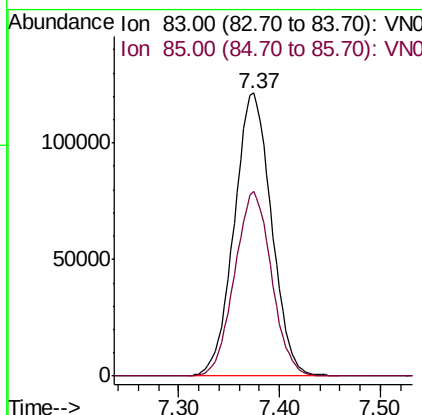
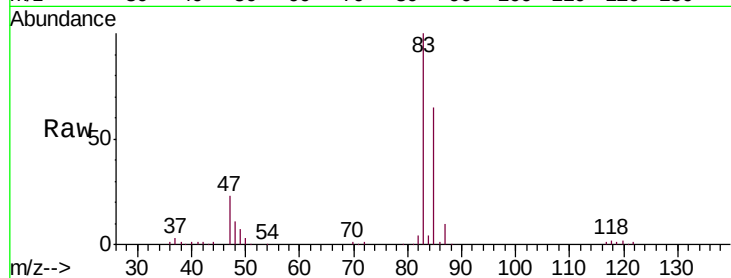
#25
Chloroform
Concen: 20.57 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	83	Resp	311532
Ion Ratio	100	Lower	Upper
85	65.3	52.1	78.1

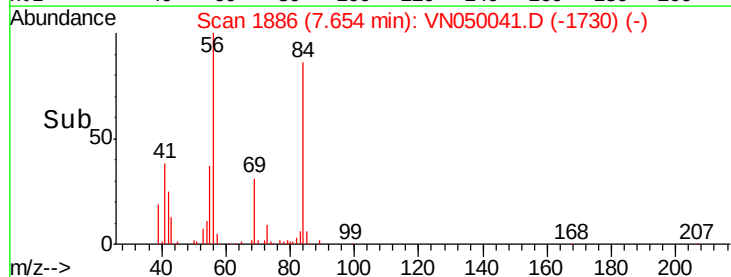
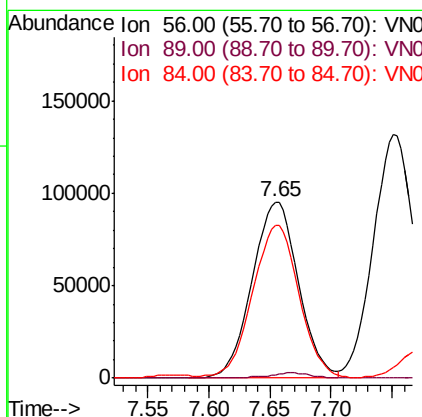
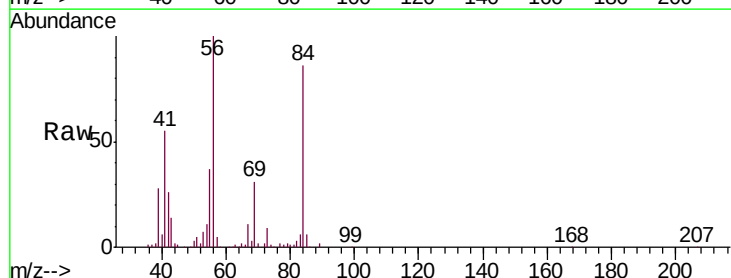
Manual Integrations
APPROVED

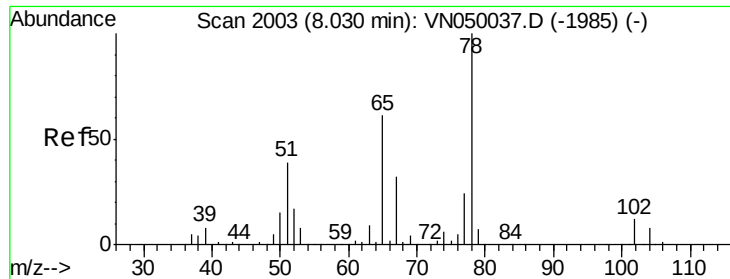
MMDadoda
7/26/2018 3:54:07 PM



#26
Cyclohexane
Concen: 21.12 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	56	Resp	251154
Ion Ratio	100	Lower	Upper
89	2.7	3.0	4.4#
84	87.4	69.8	104.8





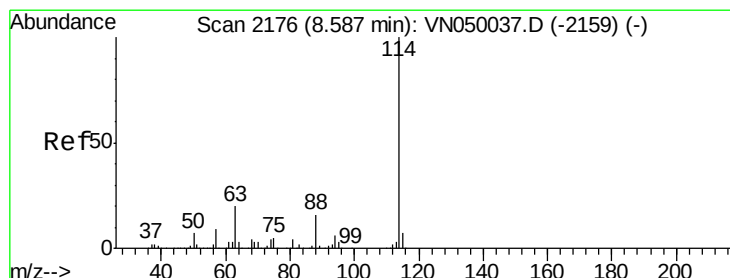
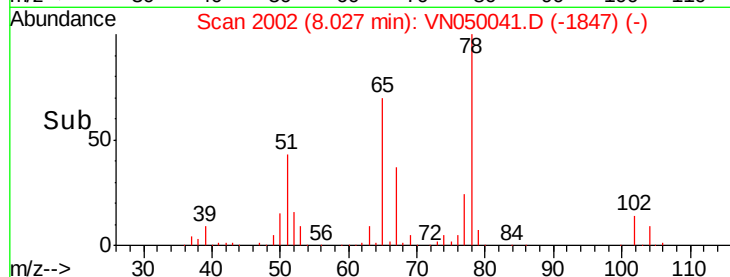
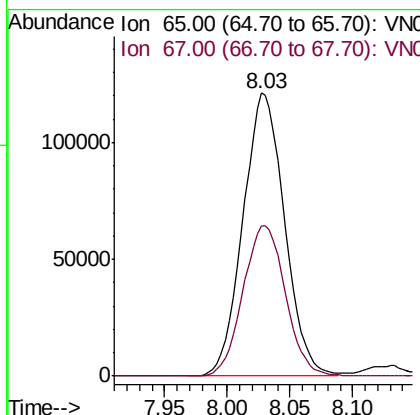
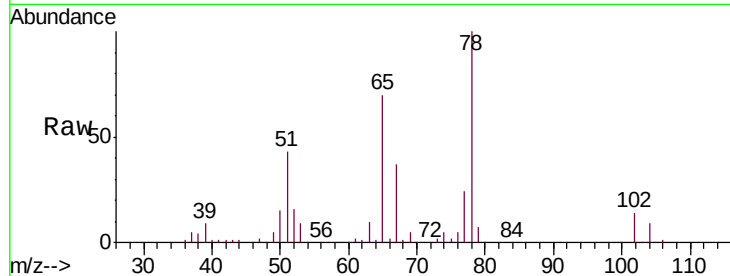
#27
 1,2-Dichloroethane-d4
 Concen: 29.89 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.1	42.7	64.1

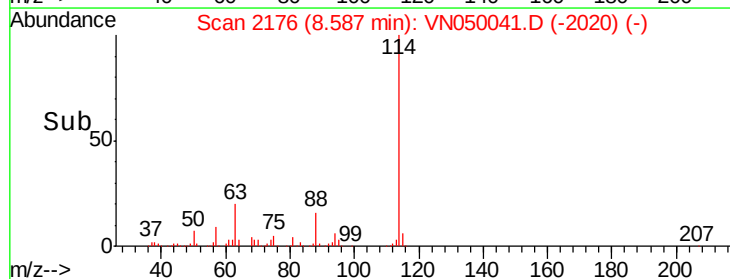
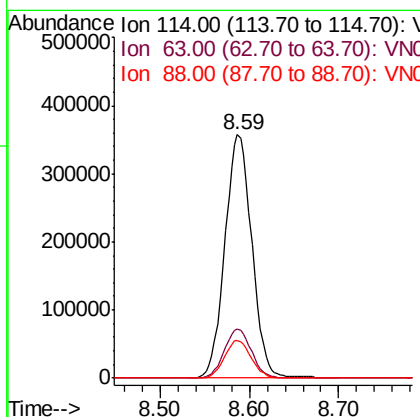
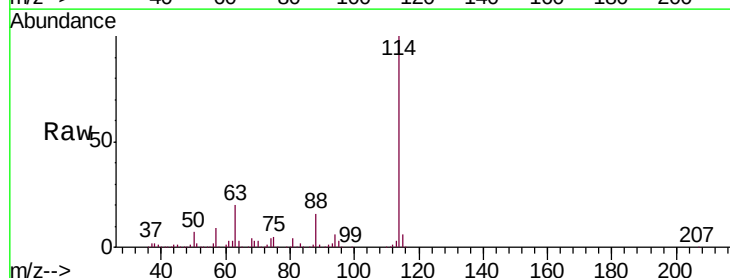
Manual Integrations
 APPROVED

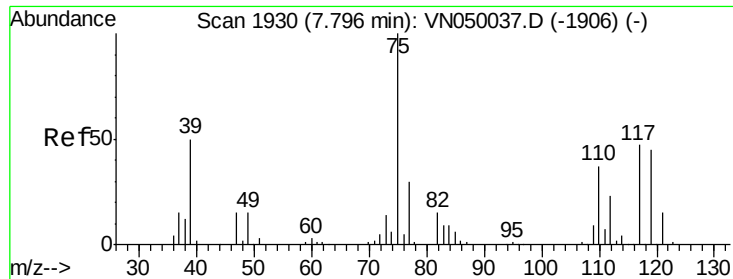
MMDadoda
 7/26/2018 3:54:07 PM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.1	16.2	24.2
88	15.4	12.3	18.5





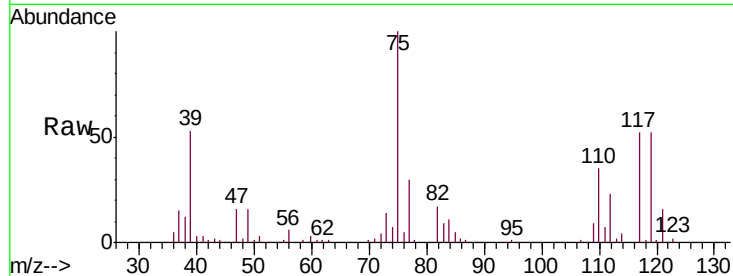
#29
 1,1-Dichloropropene
 Concen: 20.28 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

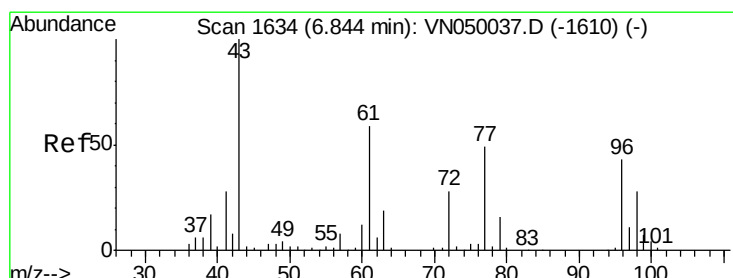
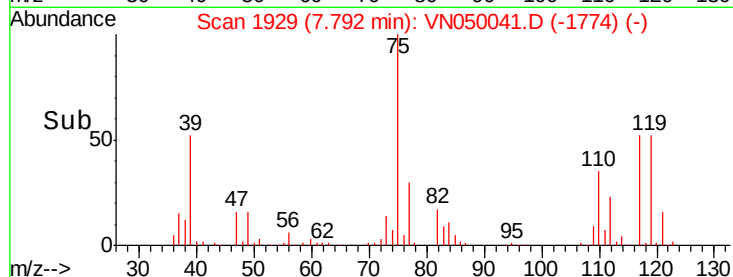
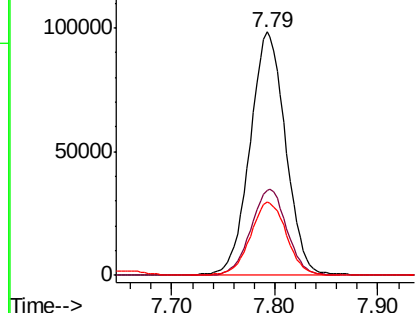
Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	35.5	0.0	73.2
77	30.5	0.0	62.0

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:07 PM

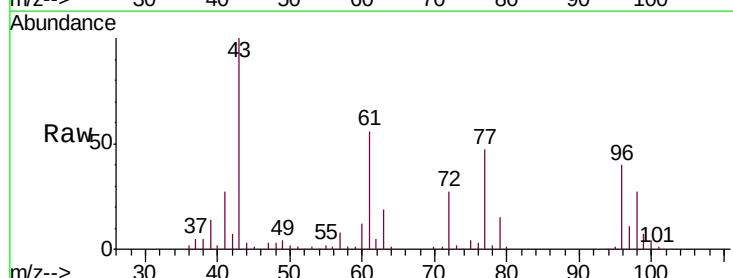


Abundance Ion 75.00 (74.70 to 75.70): VN050037.D (-1906) (-)
 Ion 110.00 (109.70 to 110.70): VN050037.D (-1906) (-)
 Ion 77.00 (76.70 to 77.70): VN050037.D (-1906) (-)

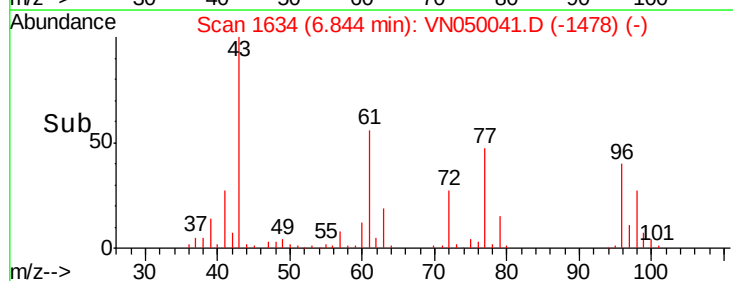
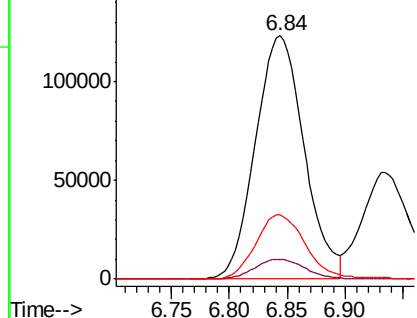


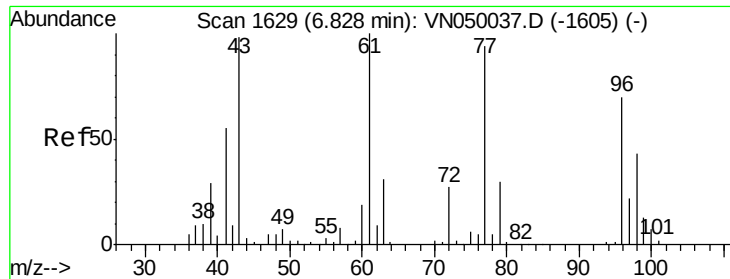
#30
 2-Butanone
 Concen: 98.53 ug/l
 RT: 6.84 min Scan# 1634
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.5	6.8	10.2
72	27.1	21.4	32.0



Abundance Ion 43.00 (42.70 to 43.70): VN050037.D (-1610) (-)
 Ion 57.00 (56.70 to 57.70): VN050037.D (-1610) (-)
 Ion 72.00 (71.70 to 72.70): VN050037.D (-1610) (-)





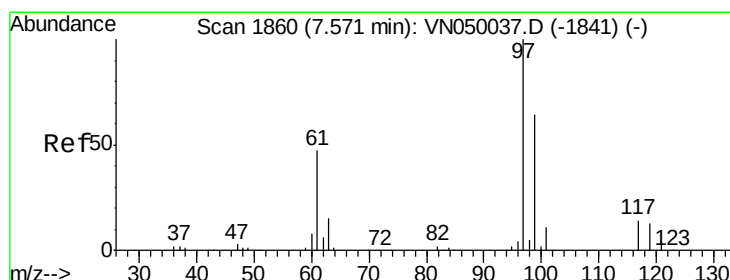
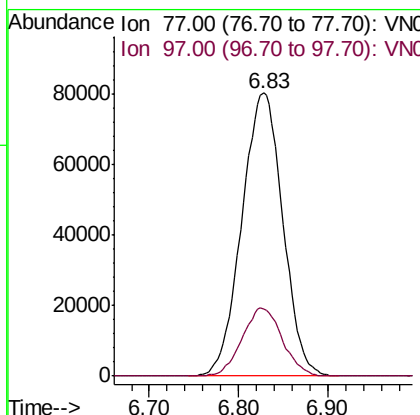
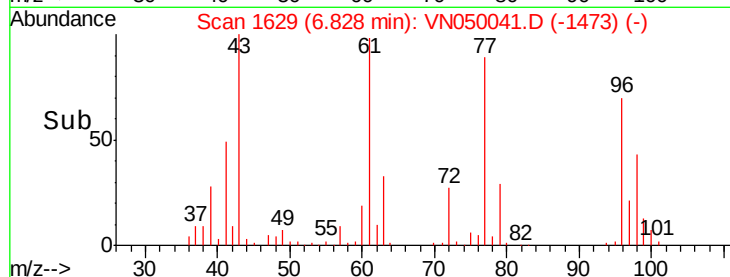
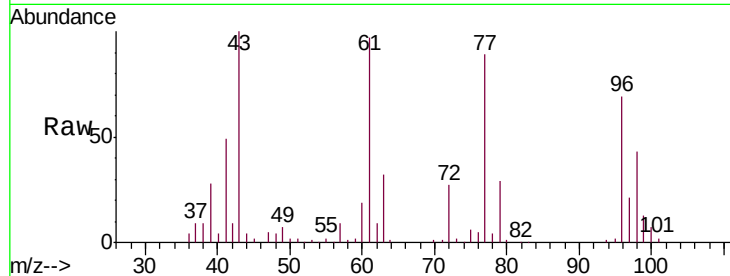
#31
 2,2-Dichloropropane
 Concen: 20.00 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

Tot Ion: 77 Resp: 256882
 Ion Ratio Lower Upper
 77 100
 97 23.5 18.9 28.3

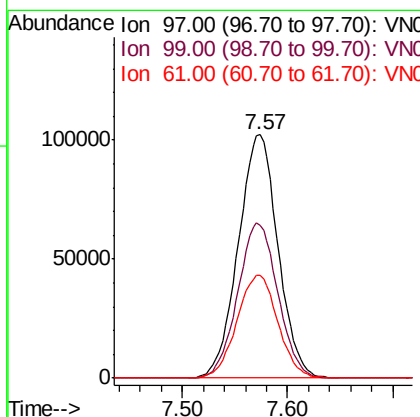
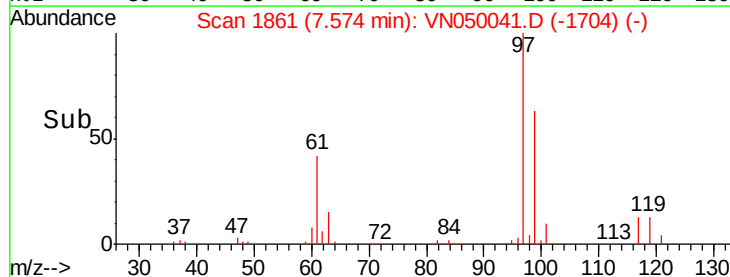
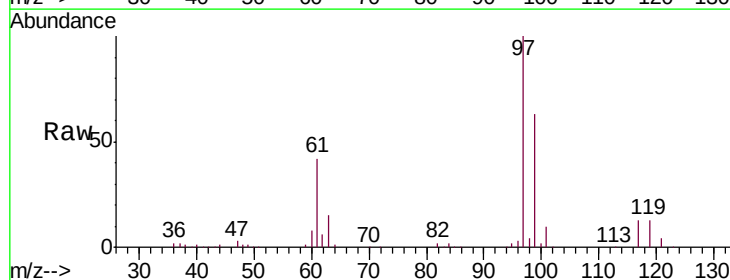
Manual Integrations
 APPROVED

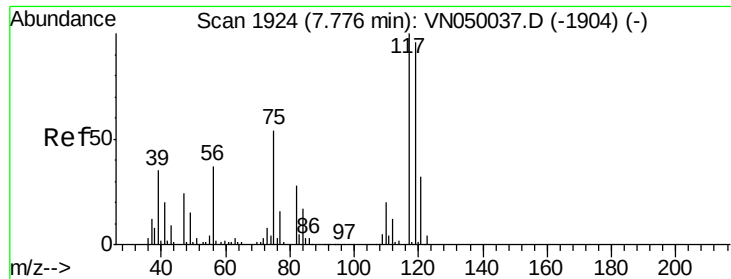
MMDadoda
 7/26/2018 3:54:07 PM



#32
 1,1,1-Trichloroethane
 Concen: 19.56 ug/l
 RT: 7.57 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Tgt Ion: 97 Resp: 267556
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.2 76.8
 61 43.6 35.3 52.9





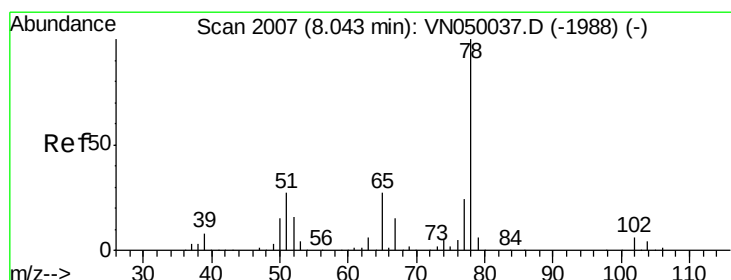
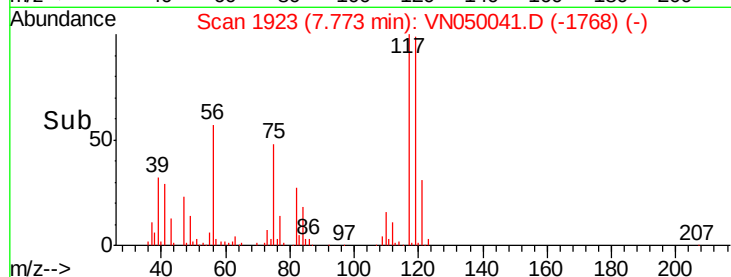
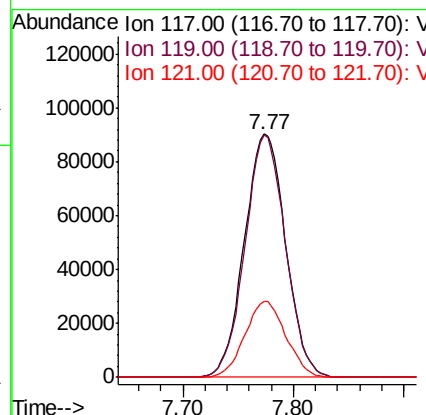
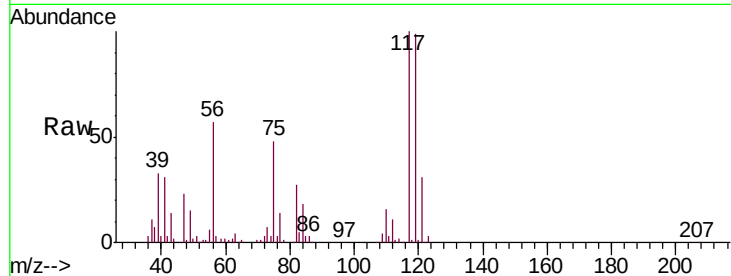
#33
Carbon Tetrachloride
Concen: 19.18 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
117	100		
119	99.3	76.9	115.3
121	31.3	24.4	36.6

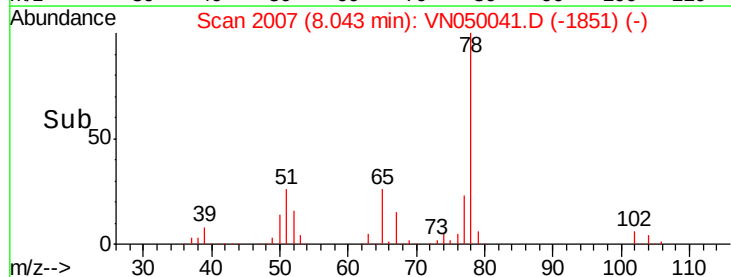
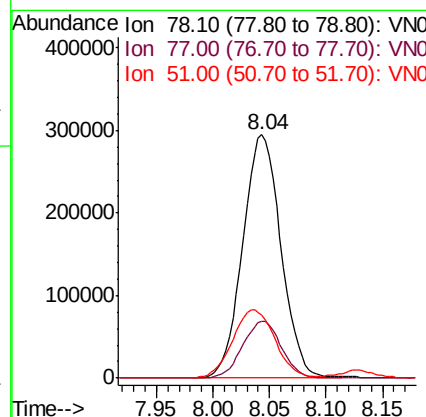
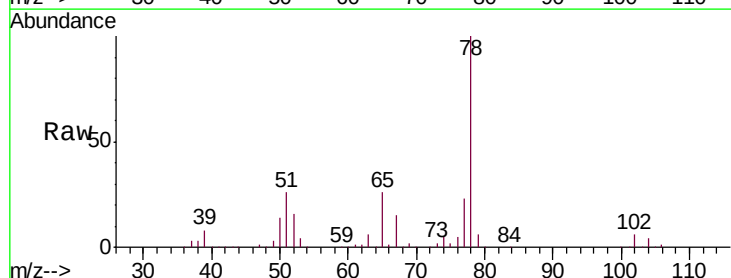
Manual Integrations
APPROVED

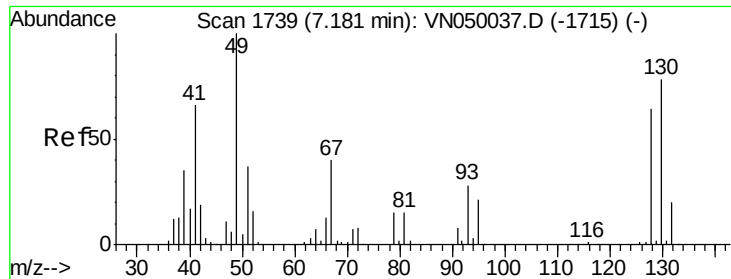
MMDadoda
7/26/2018 3:54:07 PM



#34
Benzene
Concen: 19.66 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.1	28.7
51	25.6	21.0	31.4





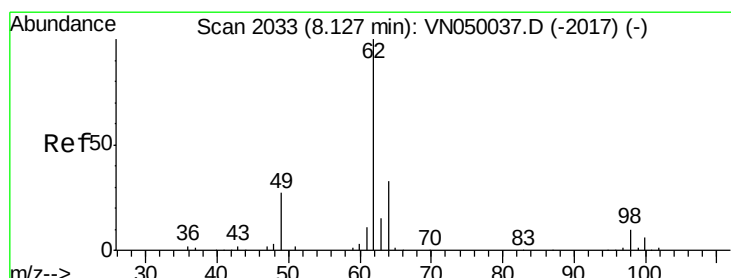
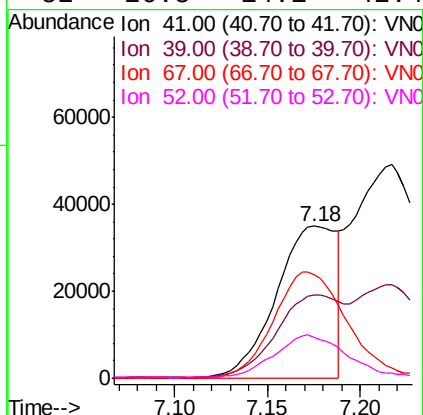
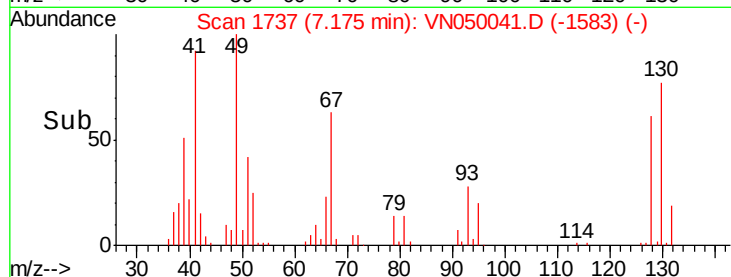
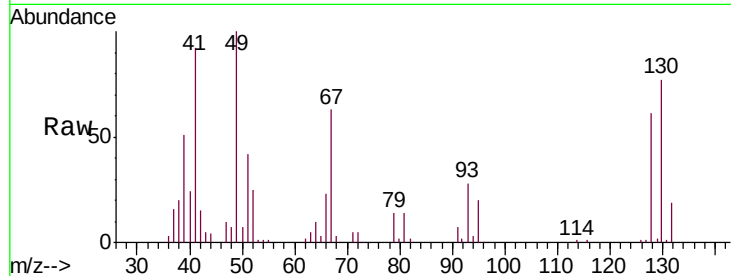
#35
Methacrylonitrile
Concen: 19.11 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.01 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	41	Resp	79324
Ion	Ratio	Lower	Upper
41	100		
39	54.4	27.6	82.7
67	68.1	35.1	105.5
52	26.5	14.1	42.4

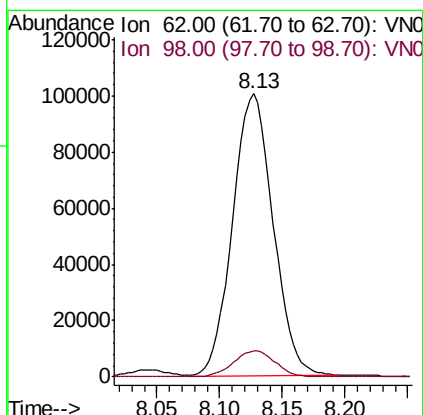
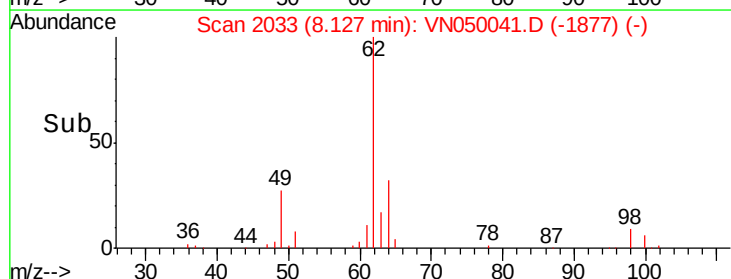
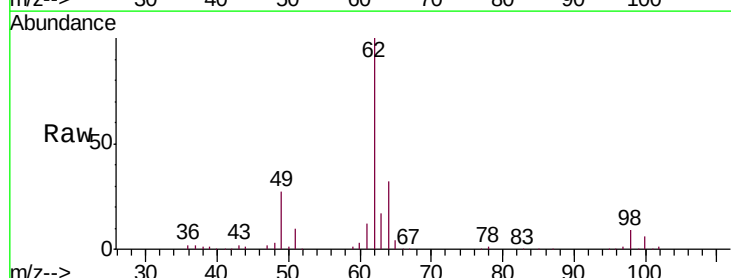
Manual Integrations
APPROVED

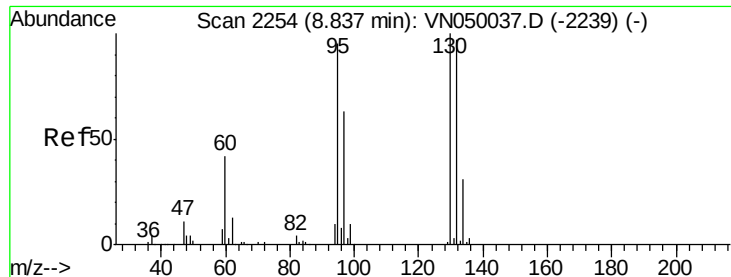
MMDadoda
7/26/2018 3:54:07 PM



#36
1,2-Dichloroethane
Concen: 19.51 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	62	Resp	226065
Ion	Ratio	Lower	Upper
62	100		
98	9.5	7.8	11.6





#37

Trichloroethene

Concen: 20.16 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN072518

Tot Ion:130 Resp: 186622

Ion Ratio Lower Upper

130 100

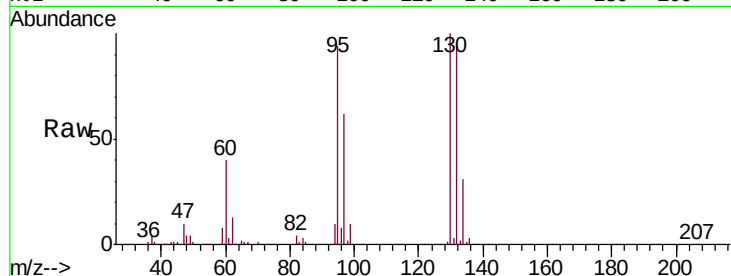
95 94.5 79.7 119.5

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:54:07 PM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

100000

80000

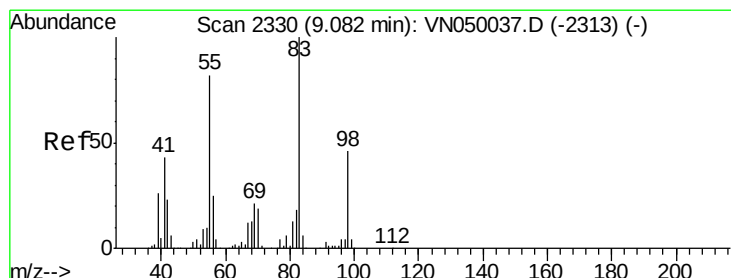
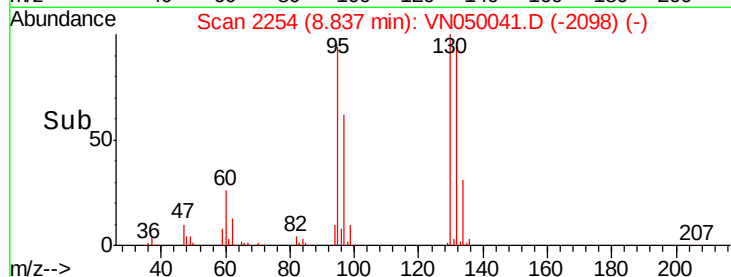
60000

40000

20000

0

Time-->



#38

Methylcyclohexane

Concen: 20.26 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

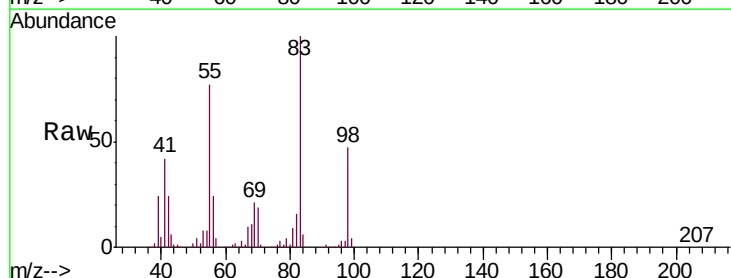
Tgt Ion: 83 Resp: 248152

Ion Ratio Lower Upper

83 100

55 77.2 39.3 117.8

98 45.8 23.0 69.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

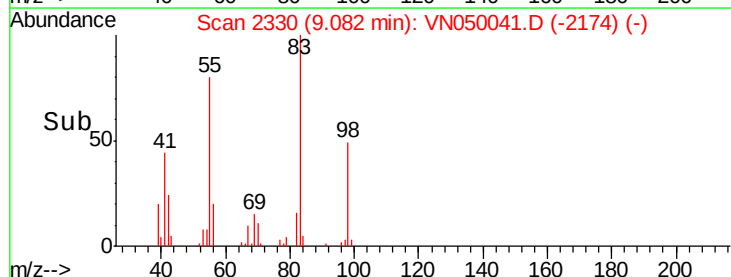
150000

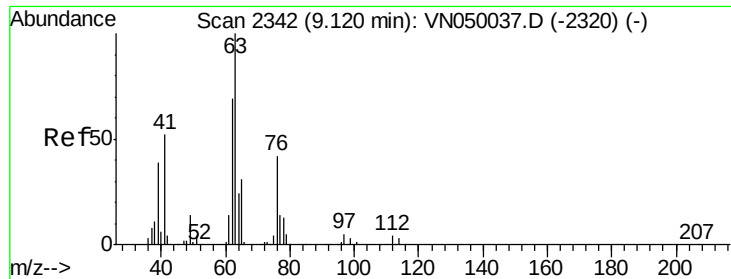
100000

50000

0

Time-->





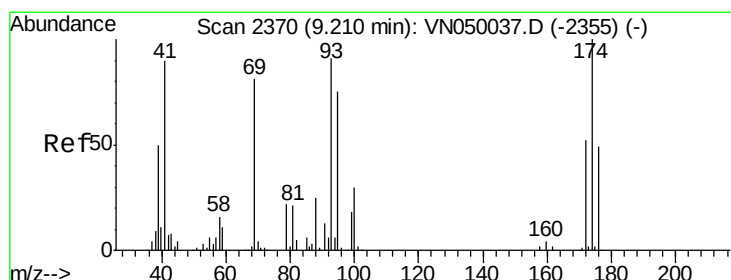
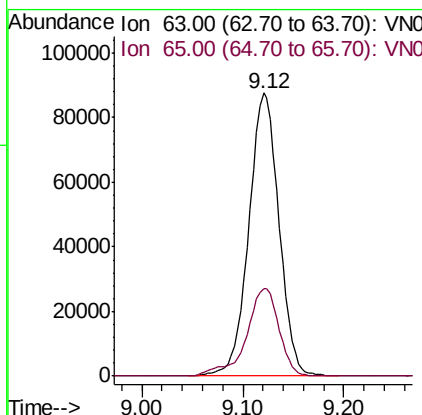
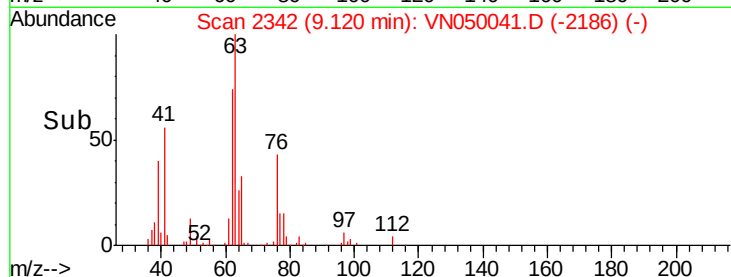
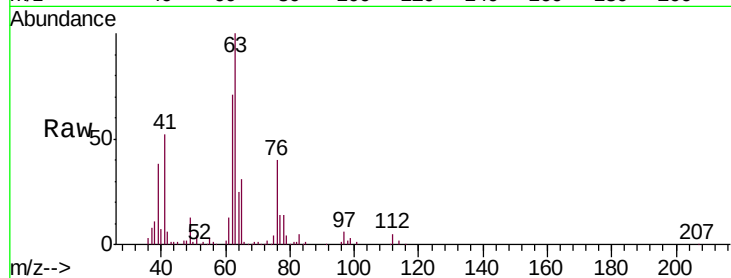
#39
 1,2-Dichloropropane
 Concen: 19.48 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.2	36.2

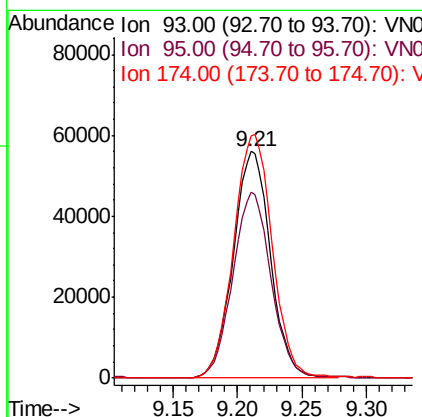
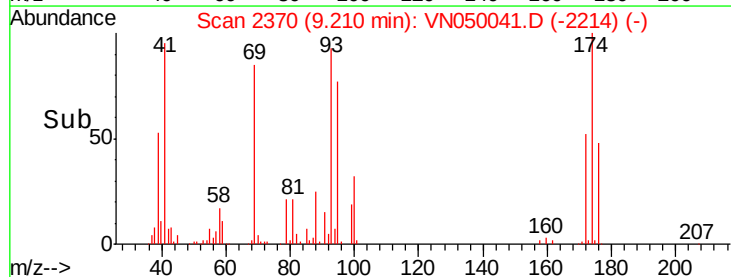
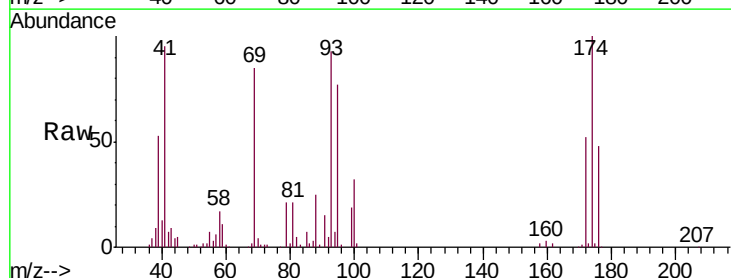
Manual Integrations
 APPROVED

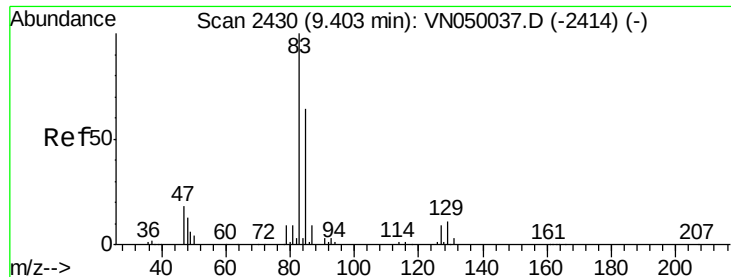
MMDadoda
 7/26/2018 3:54:07 PM



#40
 Dibromomethane
 Concen: 19.63 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.4	0.0	165.6
174	111.7	0.0	223.2





#41

Bromodichloromethane

Concen: 19.33 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

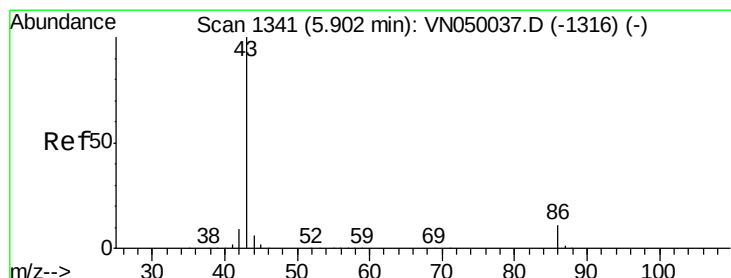
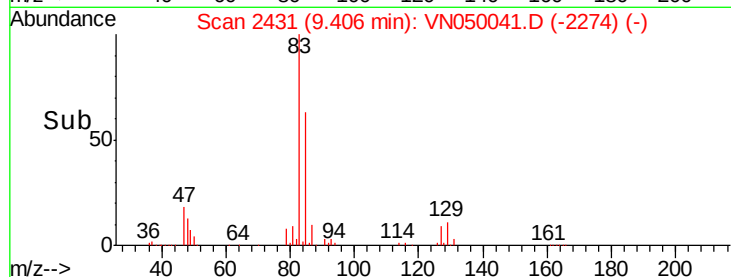
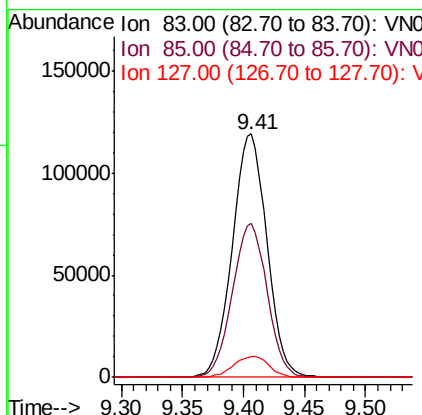
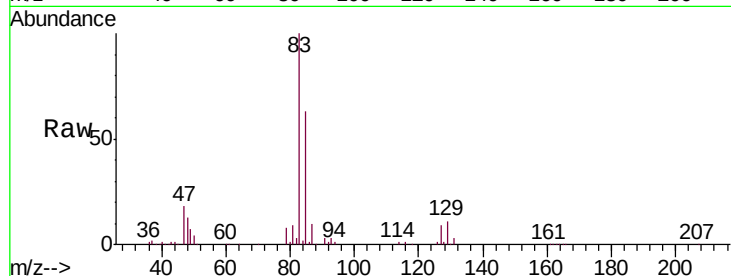
ClientSampleId :

ICVVN072518

Tot Ion:	83	Resp:	234335
Ion Ratio	Lower	Upper	
83	100		
85	63.0	52.6	78.8
127	8.8	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



#42

Vinyl Acetate

Concen: 99.41 ug/l

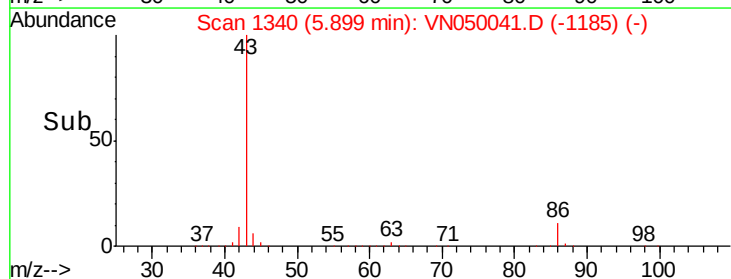
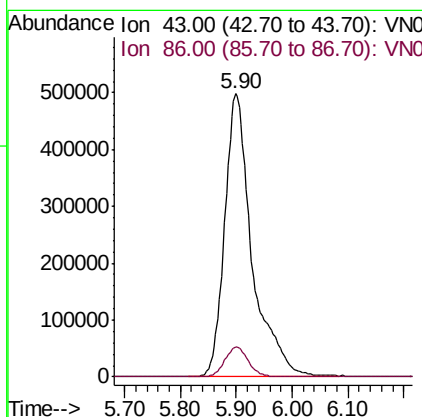
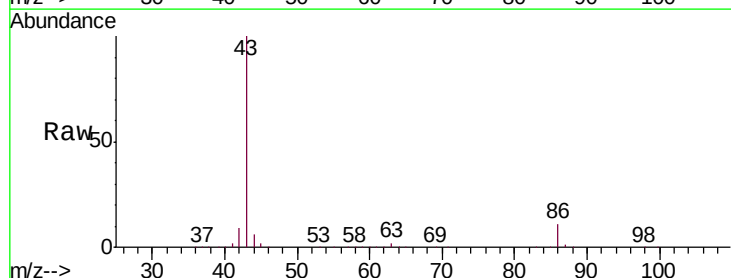
RT: 5.90 min Scan# 1340

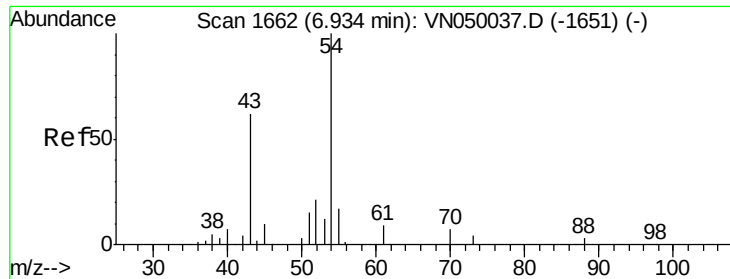
Delta R.T. -0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Tgt Ion:	43	Resp:	1705854
Ion Ratio	Lower	Upper	
43	100		
86	8.9	7.3	10.9





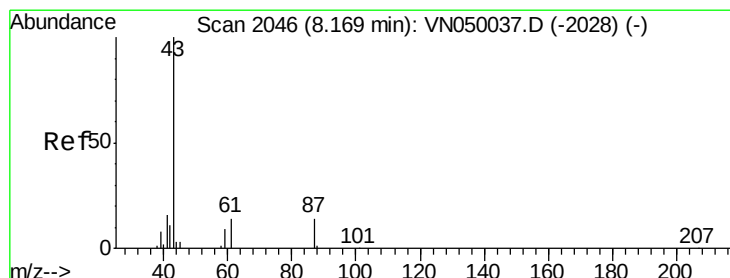
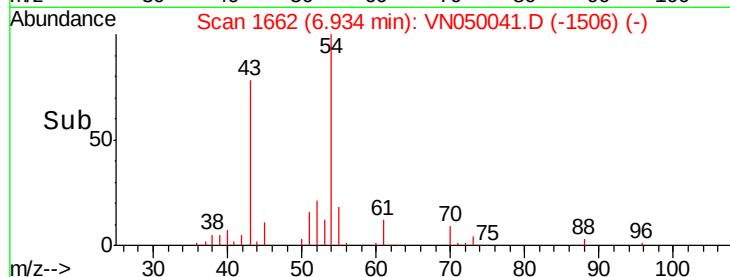
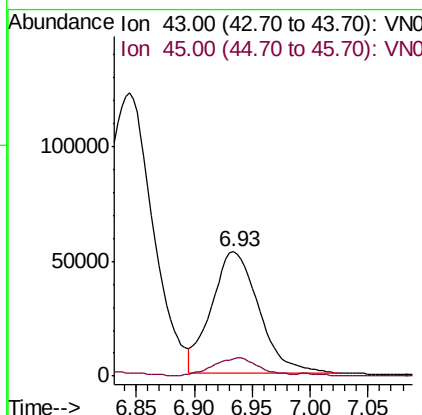
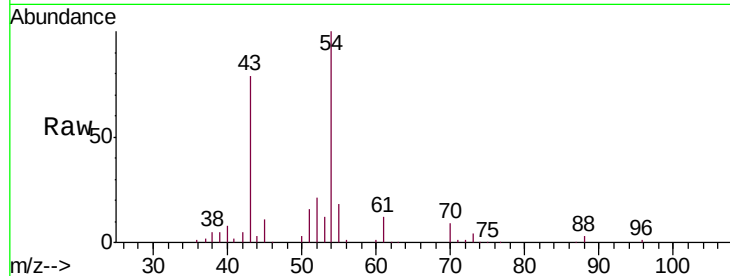
#43
Ethyl Acetate
Concen: 19.84 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion: 43 Resp: 151090
Ion Ratio Lower Upper
43 100
45 13.3 13.0 19.6

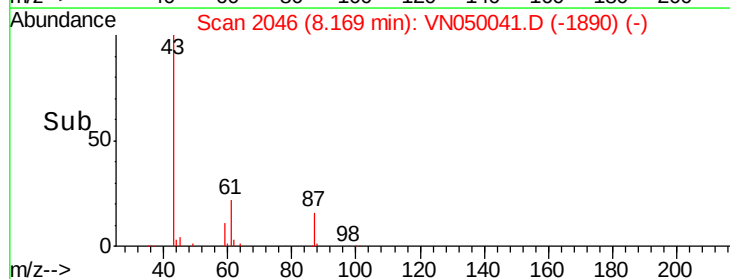
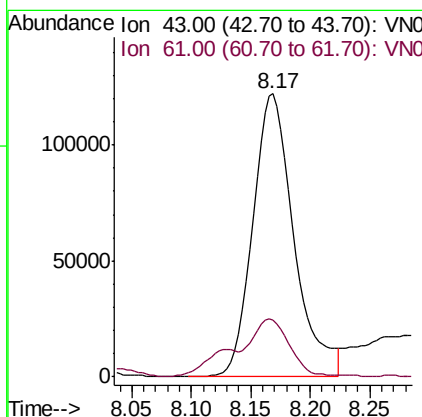
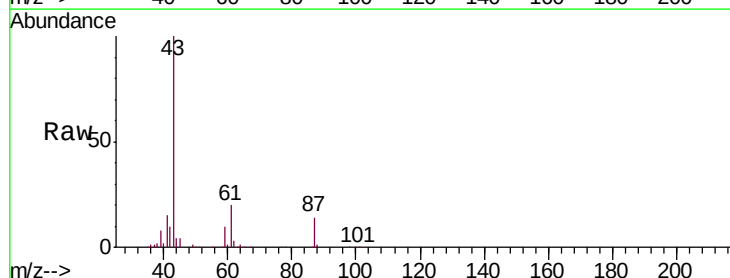
Manual Integrations
APPROVED

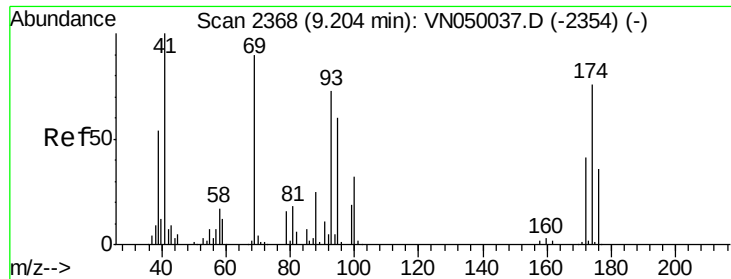
MMDadoda
7/26/2018 3:54:07 PM



#44
Isopropyl Acetate
Concen: 20.67 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion: 43 Resp: 291588
Ion Ratio Lower Upper
43 100
61 17.9 16.4 24.6





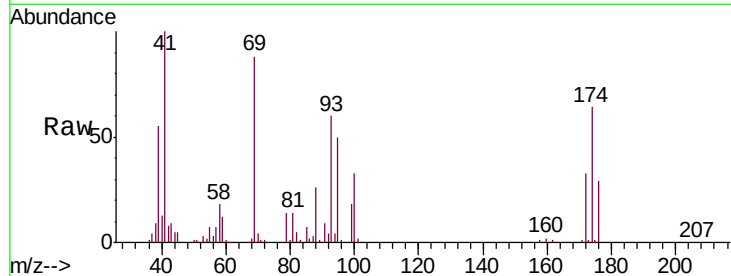
#45
1,4-Dioxane
Concen: 415.97 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampled :
ICVVN072518

Tot Ion	88	Resp	38610
Ion	Ratio	Lower	Upper
88	100		
43	31.6	26.9	40.3
58	65.2	53.6	80.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM

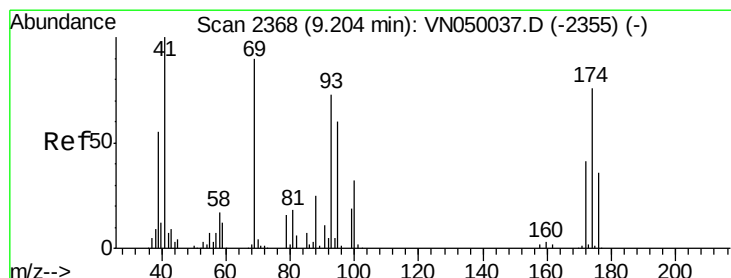
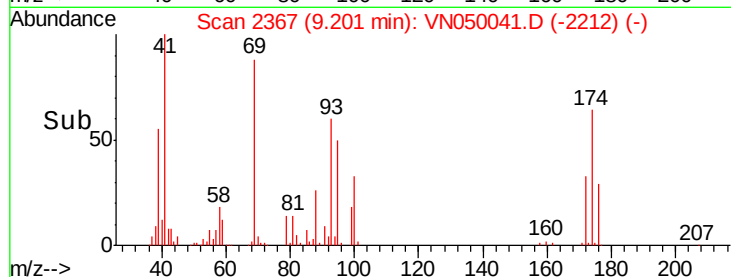
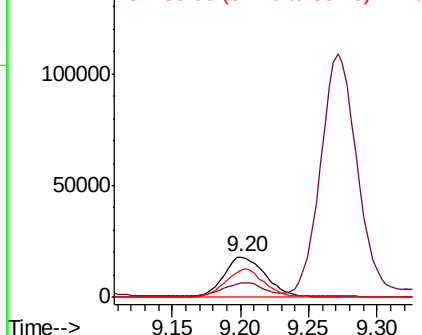


Abundance

Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#46
Methyl methacrylate
Concen: 19.33 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

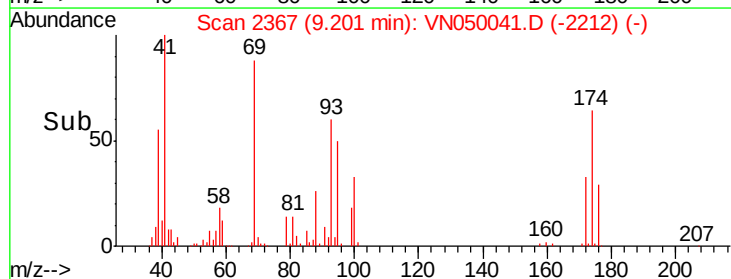
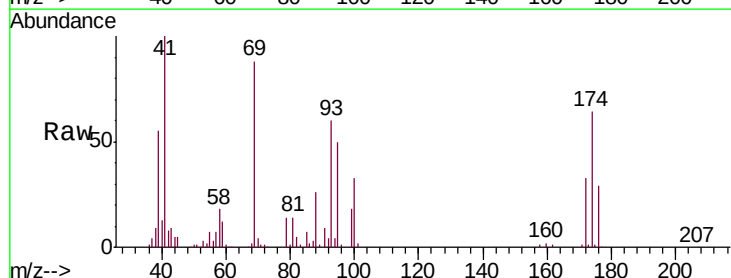
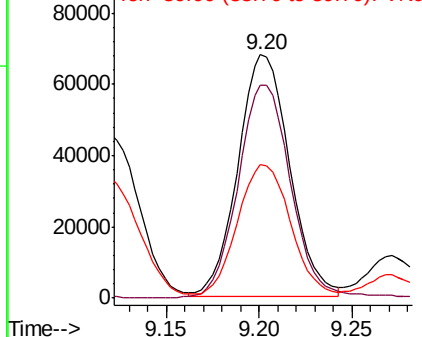
Tgt Ion	41	Resp	132143
Ion	Ratio	Lower	Upper
41	100		
69	88.9	44.0	132.1
39	54.5	27.0	80.8

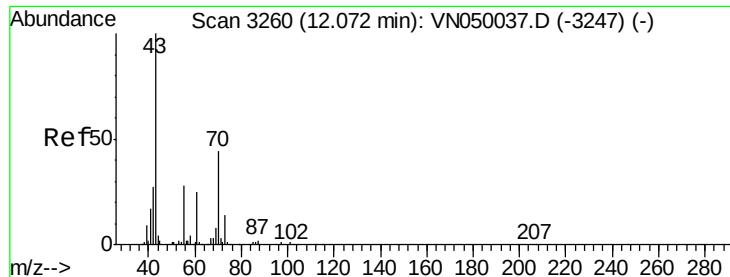
Abundance

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





#47

n-amyl Acetate

Concen: 18.67 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampled :

ICVVN072518

Tot Ion: 43 Resp: 204894

Ion Ratio Lower Upper

43 100

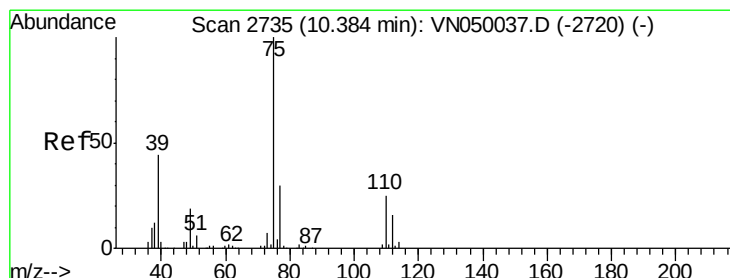
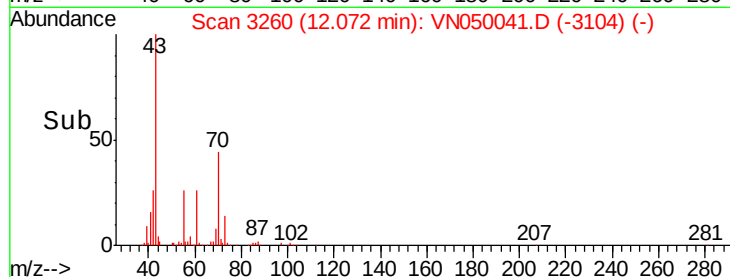
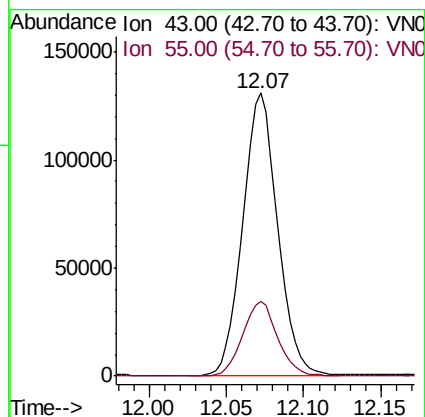
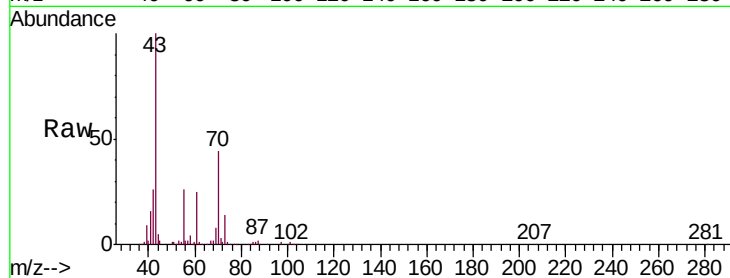
55 26.7 21.0 31.4

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:54:07 PM



#48

t-1,3-Dichloropropene

Concen: 19.81 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN050041.D

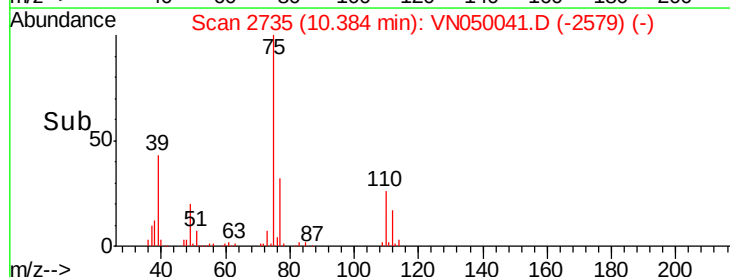
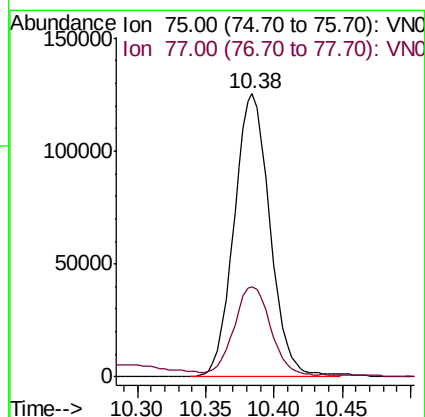
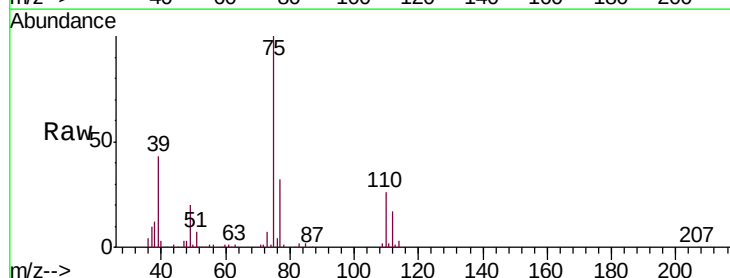
Acq: 25 Jul 2018 10:49

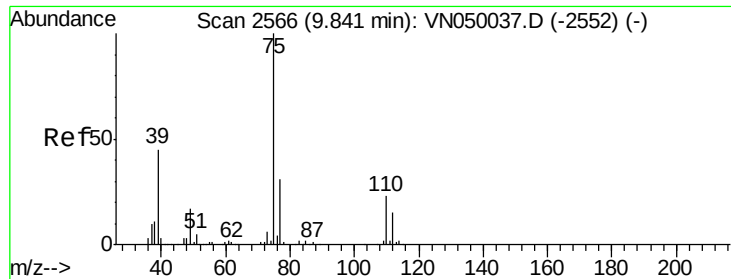
Tgt Ion: 75 Resp: 228879

Ion Ratio Lower Upper

75 100

77 31.1 24.6 37.0





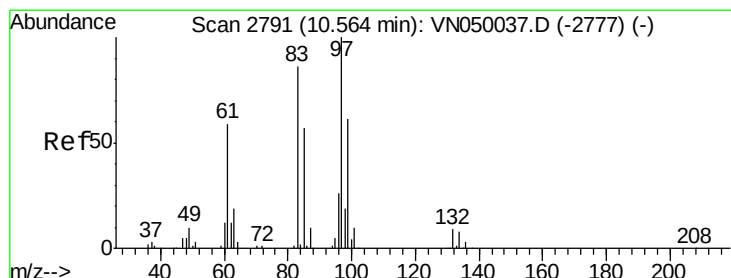
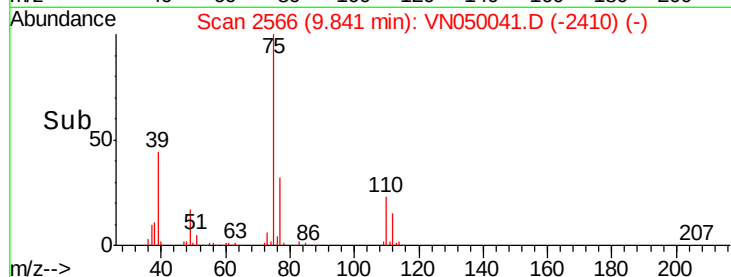
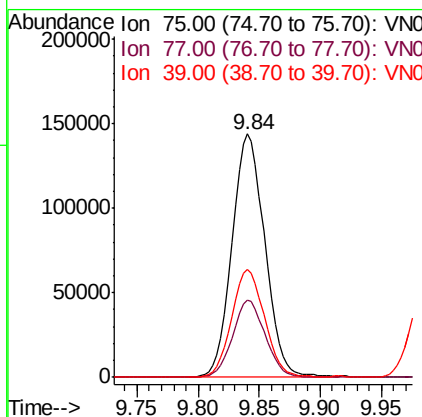
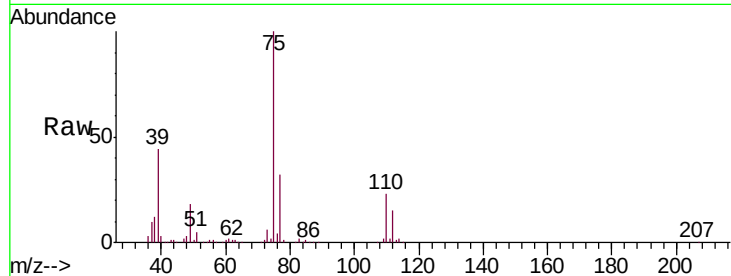
#49
 cis-1,3-Dichloropropene
 Concen: 19.82 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.7	38.5
39	44.0	36.3	54.5

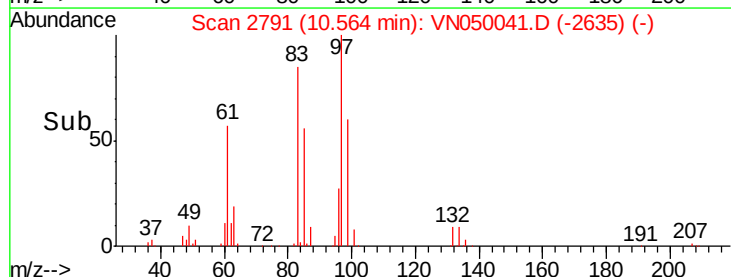
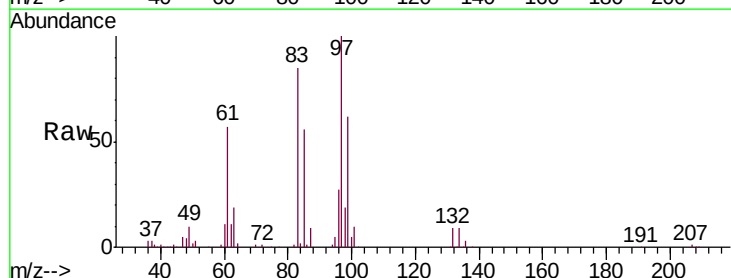
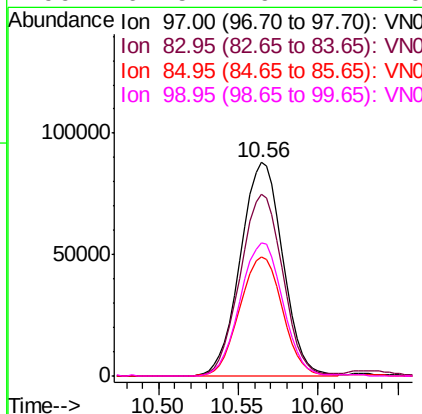
Manual Integrations
 APPROVED

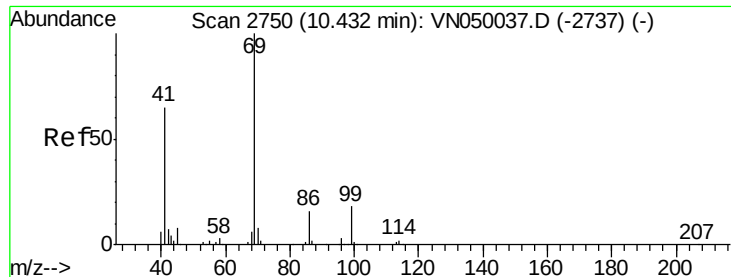
MMDadoda
 7/26/2018 3:54:07 PM



#50
 1,1,2-Trichloroethane
 Concen: 19.32 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.4	68.1	102.1
85	55.8	45.4	68.2
99	62.5	49.4	74.0





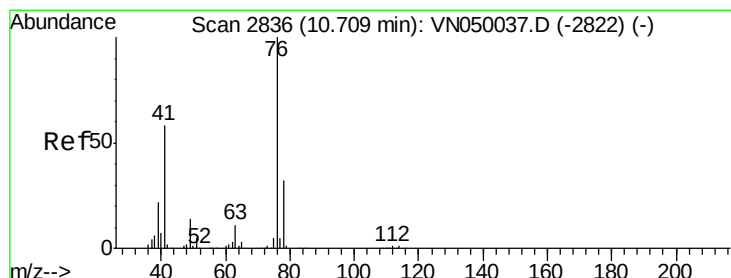
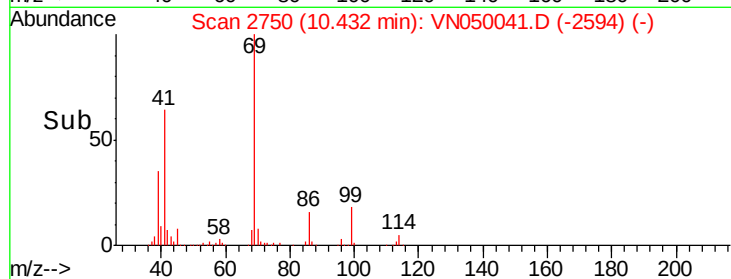
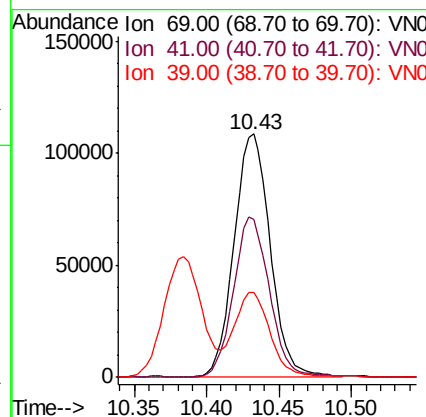
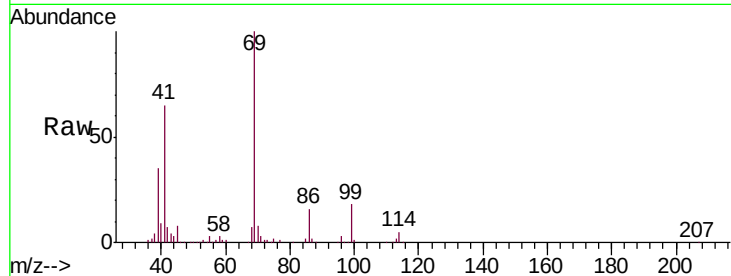
#51
Ethyl methacrylate
Concen: 18.86 ug/l
RT: 10.43 min Scan# 2750
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampled :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
69	100		
41	64.3	31.9	95.9
39	34.3	16.7	50.1

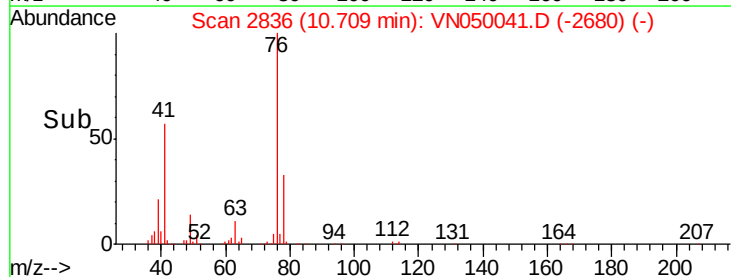
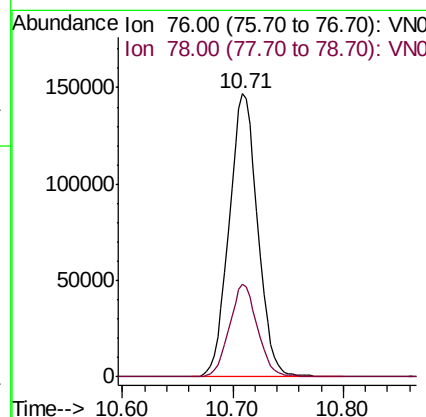
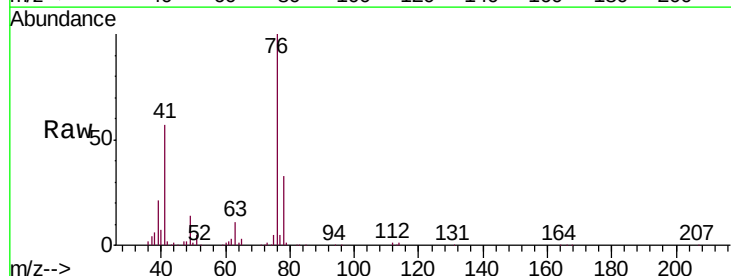
Manual Integrations
APPROVED

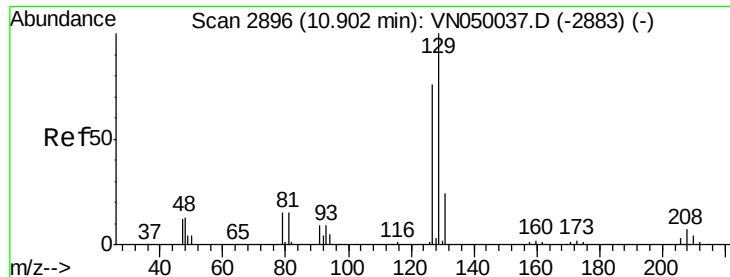
MMDadoda
7/26/2018 3:54:07 PM



#52
1,3-Dichloropropane
Concen: 19.49 ug/l
RT: 10.71 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.1	0.0	65.6





#53

Dibromochloromethane

Concen: 18.92 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN072518

Tot Ion:129 Resp: 177105

Ion Ratio Lower Upper

129 100

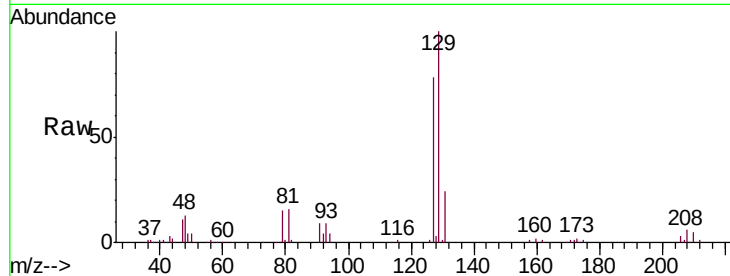
127 76.3 38.1 114.5

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:54:07 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

100000

80000

60000

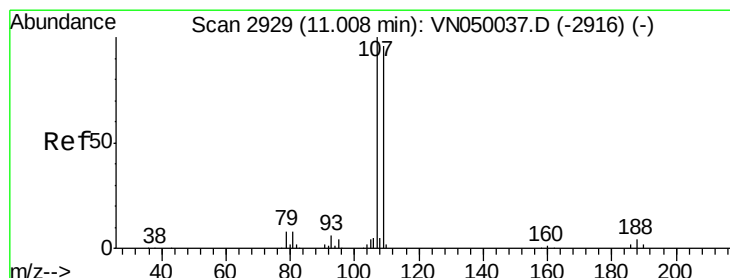
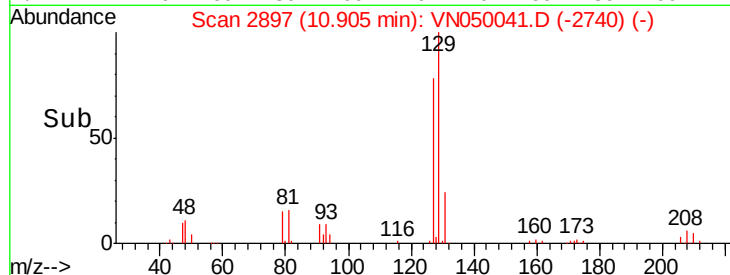
40000

20000

0

10.85 10.90 10.95

Time-->



#54

1,2-Dibromoethane

Concen: 19.60 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050041.D

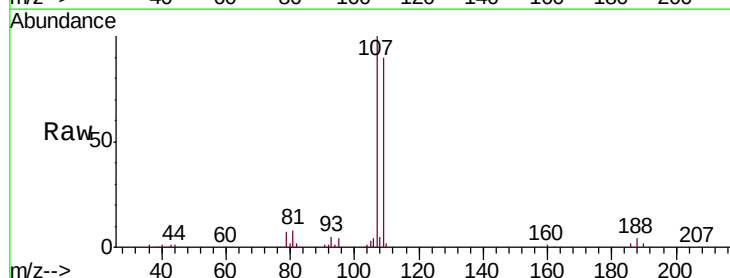
Acq: 25 Jul 2018 10:49

Tgt Ion:107 Resp: 158300

Ion Ratio Lower Upper

107 100

109 92.4 76.2 114.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

100000

80000

60000

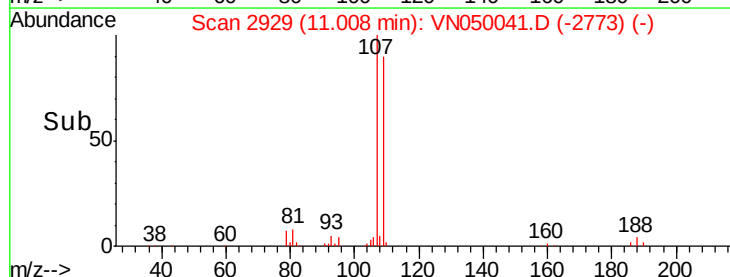
40000

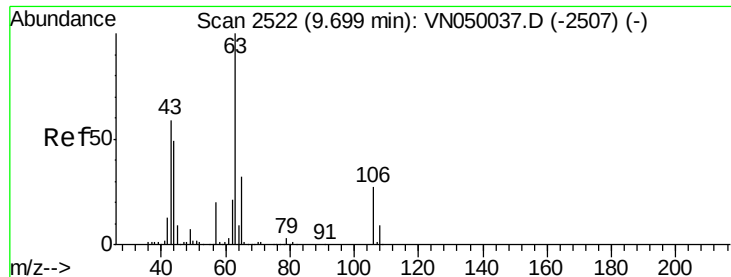
20000

0

11.00 11.10

Time-->





#55

2-Chloroethyl vinyl ether

Concen: 95.45 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

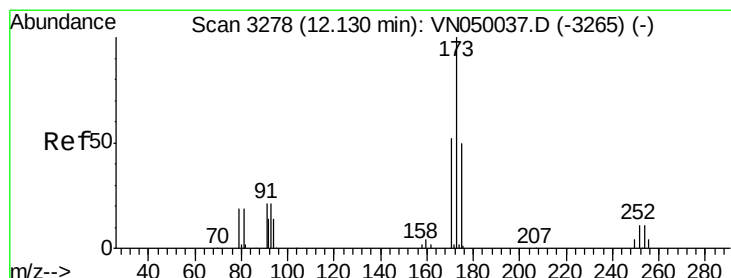
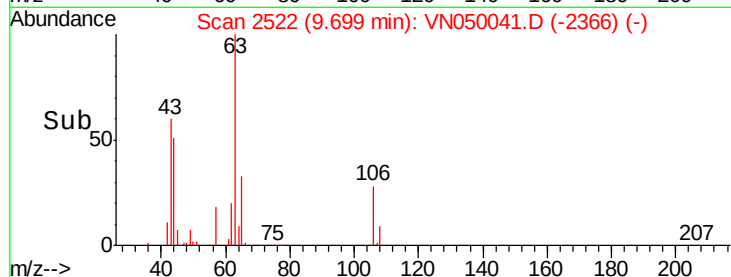
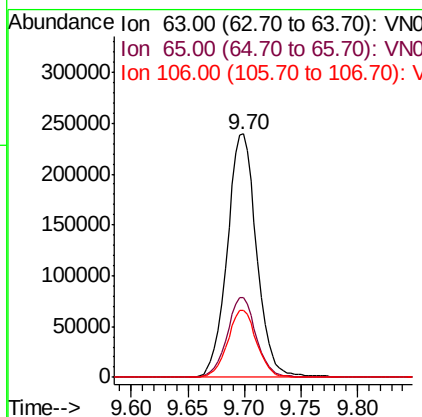
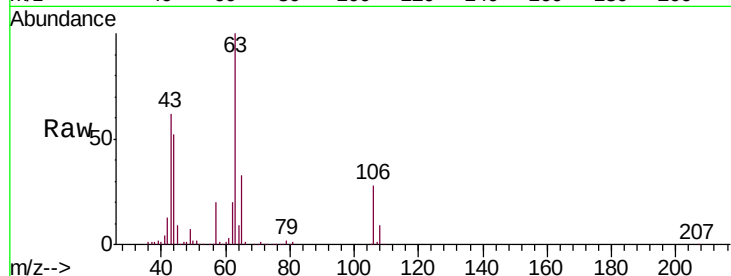
ClientSampleId :

ICVVN072518

Tot Ion:	63	Resp:	432457
Ion	Ratio	Lower	Upper
63	100		
65	32.5	25.5	38.3
106	27.2	21.8	32.6

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



#56

Bromoform

Concen: 18.49 ug/l

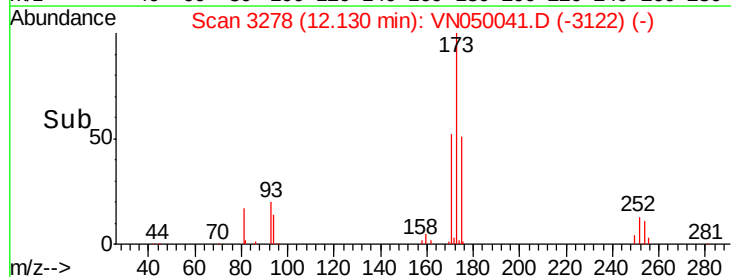
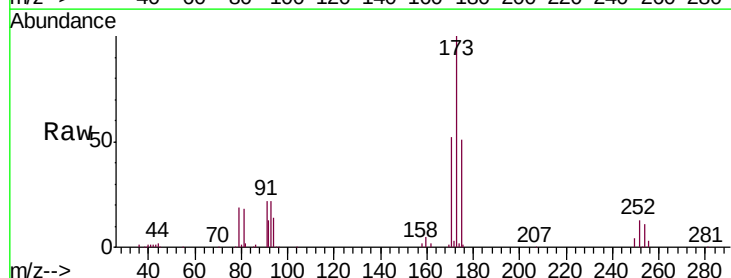
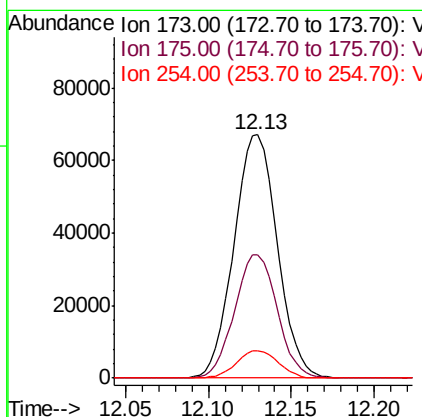
RT: 12.13 min Scan# 3278

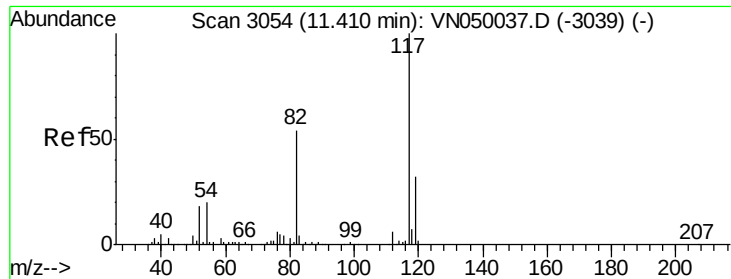
Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Tgt Ion:	173	Resp:	122212
Ion	Ratio	Lower	Upper
173	100		
175	49.9	38.6	57.8
254	10.9	8.8	13.2





#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

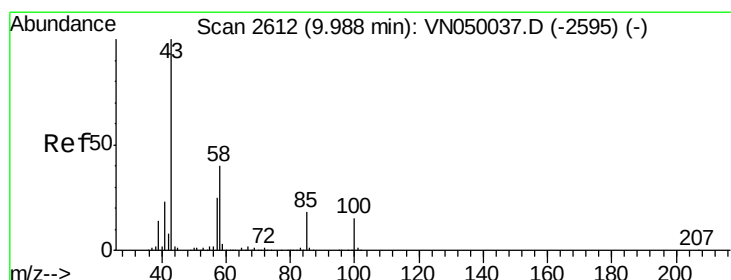
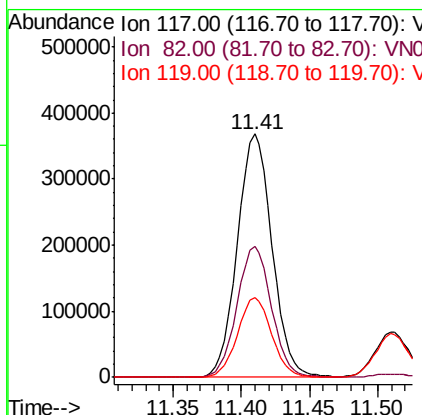
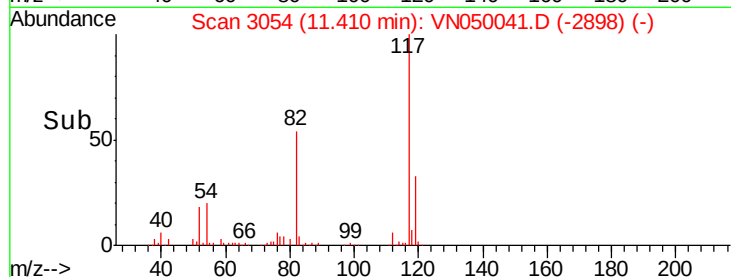
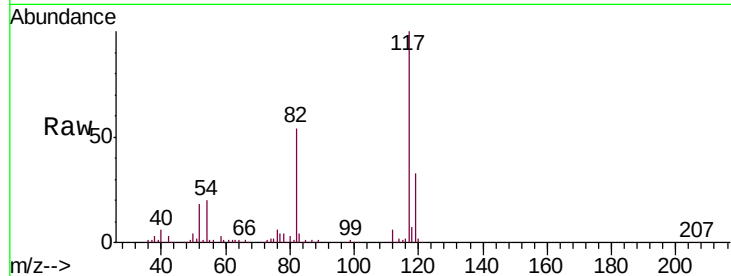
ClientSampleId :

ICVVN072518

Tot Ion:	117	Resp:	651580
Ion Ratio	Lower	Upper	
117	100		
82	53.7	42.4	63.6
119	32.3	25.4	38.0

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



#58

4-Methyl-2-Pentanone

Concen: 101.34 ug/l

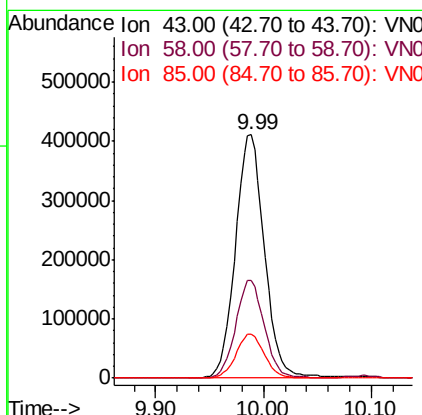
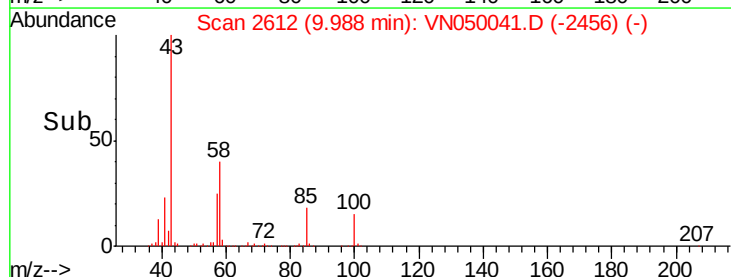
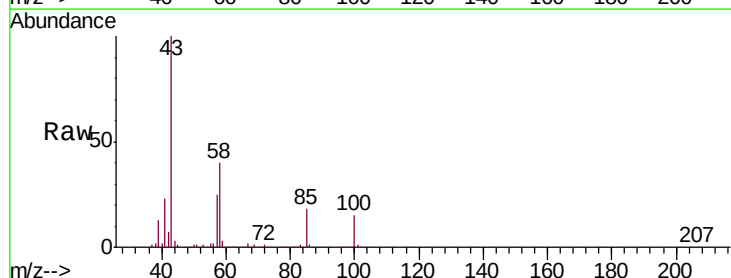
RT: 9.99 min Scan# 2612

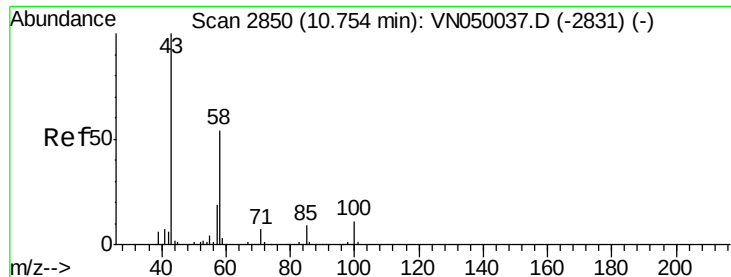
Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Tgt Ion:	43	Resp:	768299
Ion Ratio	Lower	Upper	
43	100		
58	39.8	31.2	46.8
85	18.1	14.4	21.6





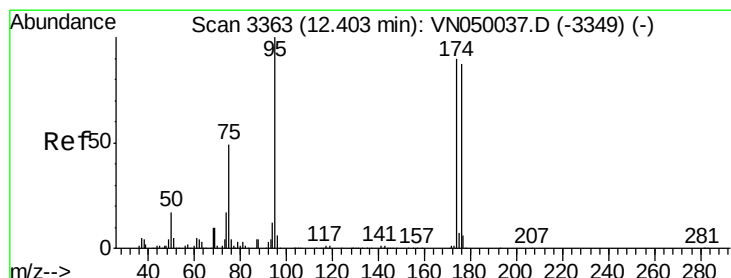
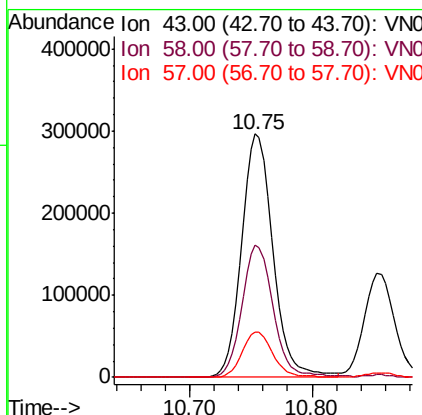
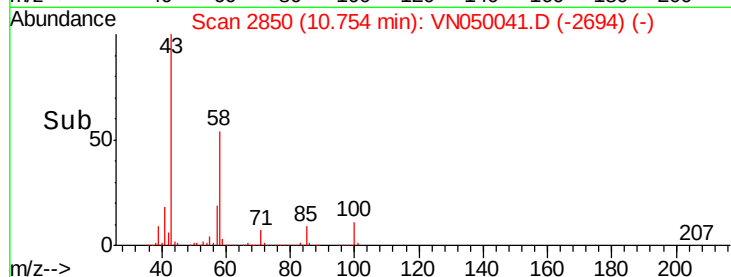
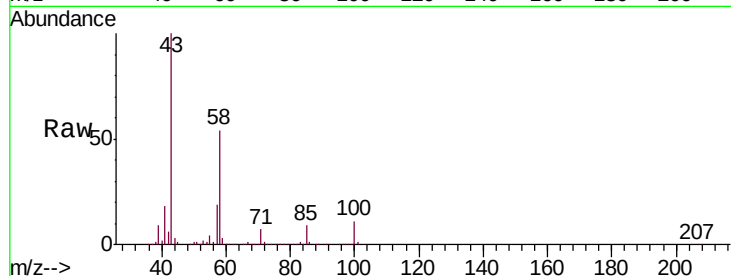
#59
2-Hexanone
Concen: 100.95 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.4	43.8	65.8
57	18.4	15.1	22.7

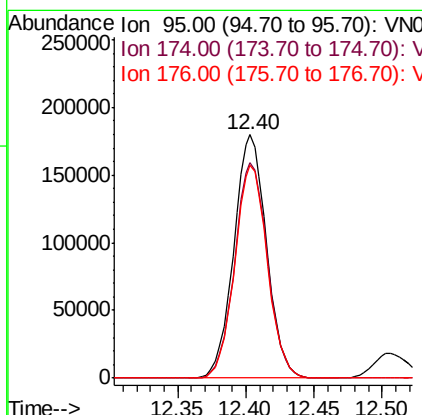
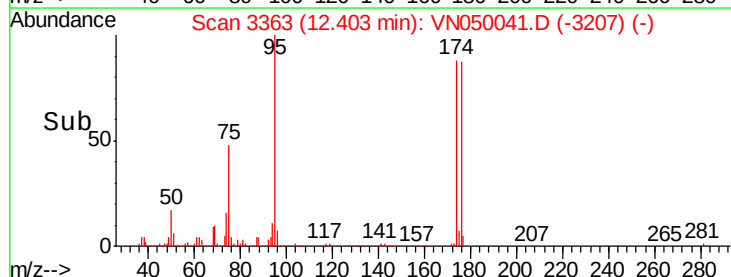
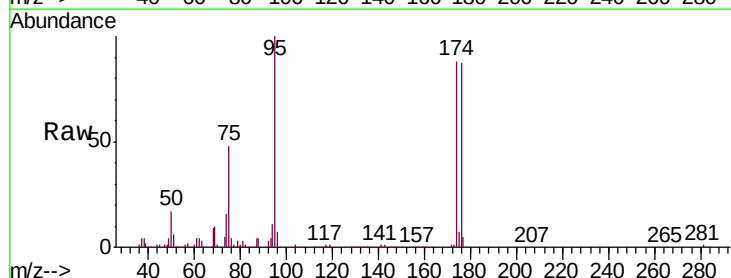
Manual Integrations
APPROVED

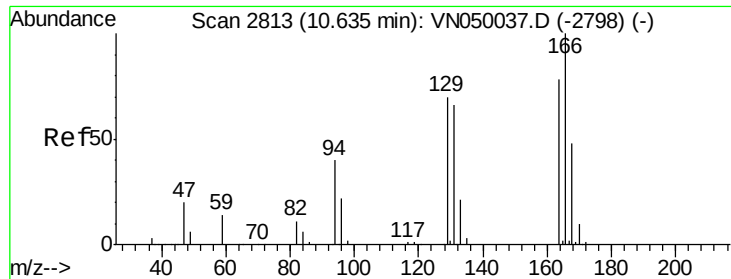
MMDadoda
7/26/2018 3:54:07 PM



#60
4-Bromofluorobenzene
Concen: 29.79 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.1	72.3	108.5
176	87.4	70.0	105.0





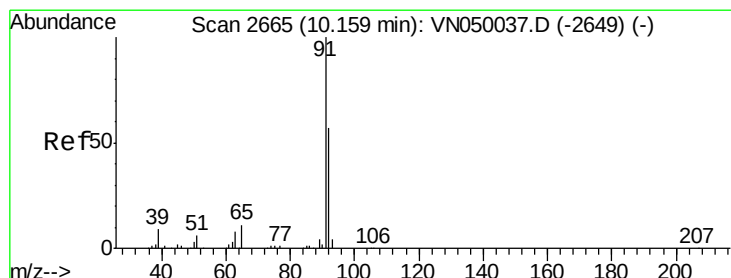
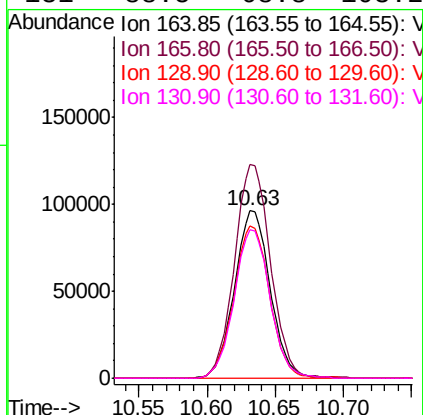
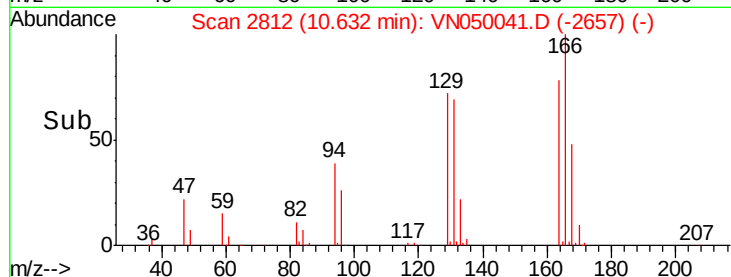
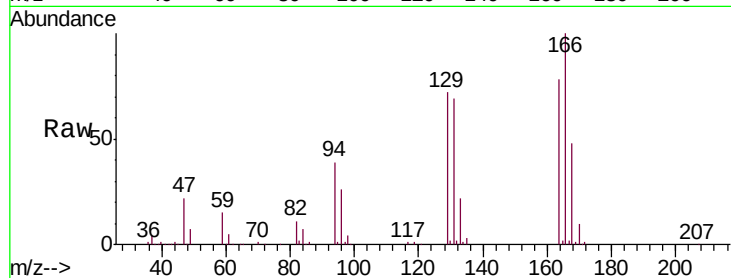
#61
Tetrachloroethene
Concen: 19.93 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.7	100.0	150.0
129	91.4	69.3	103.9
131	88.5	68.8	103.2

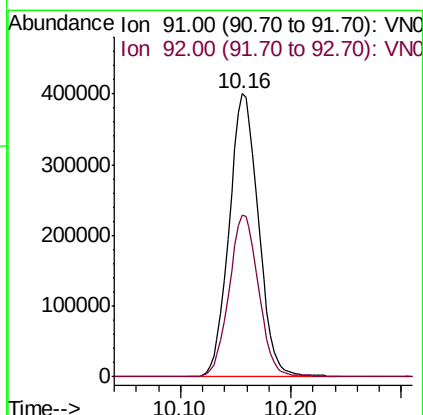
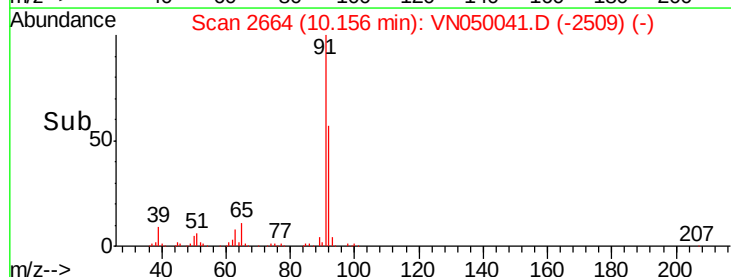
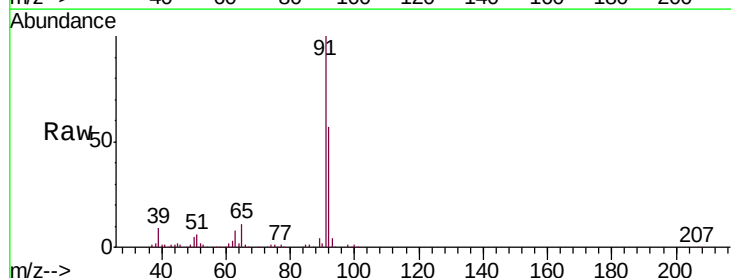
Manual Integrations
APPROVED

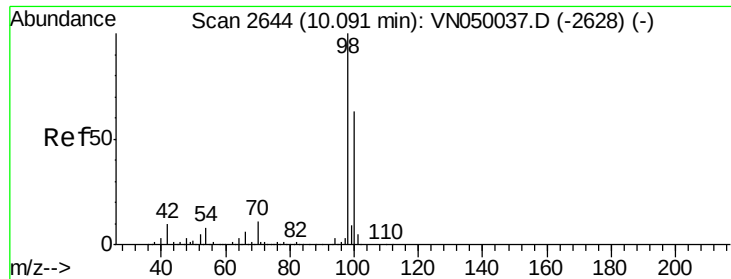
MMDadoda
7/26/2018 3:54:07 PM



#62
Toluene
Concen: 19.87 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.6	45.7	68.5





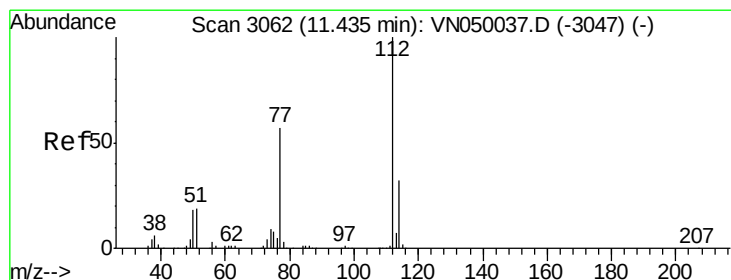
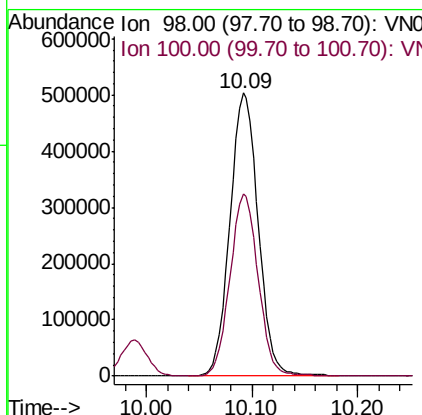
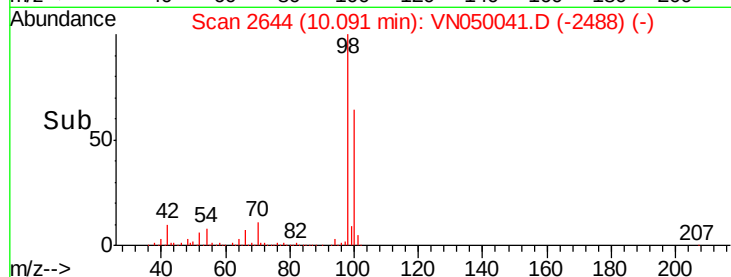
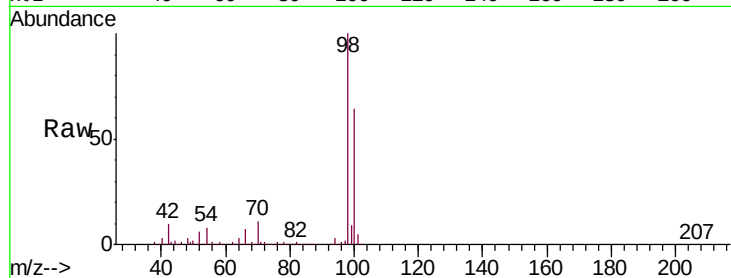
#63
Toluene-d8
Concen: 30.02 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	98	100	Ratio	Lower	Upper
98	100				
100	64.3	51.2			76.8

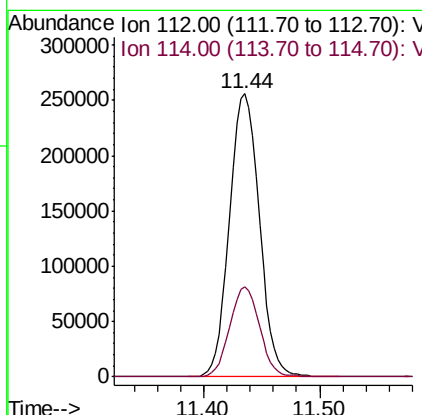
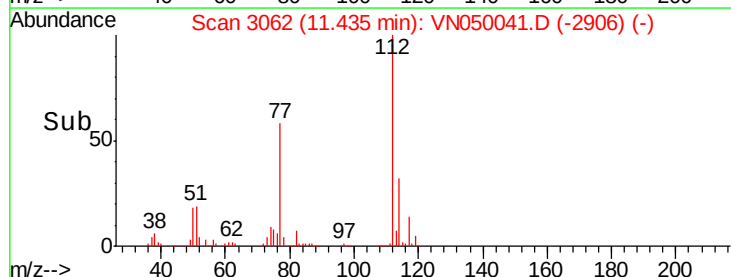
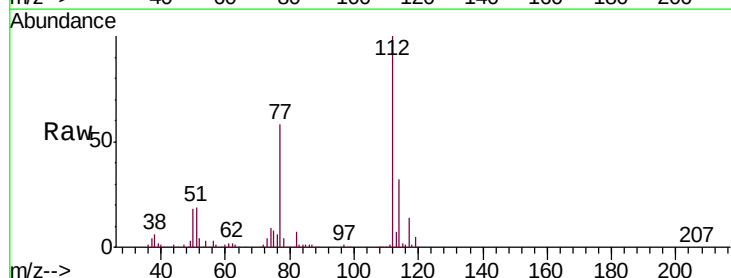
Manual Integrations
APPROVED

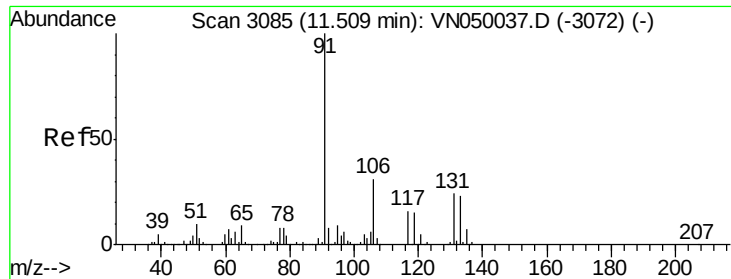
MMDadoda
7/26/2018 3:54:07 PM



#64
Chlorobenzene
Concen: 20.28 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	112	114	Ratio	Lower	Upper
112	100				
114	32.1	26.2			39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 19.44 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

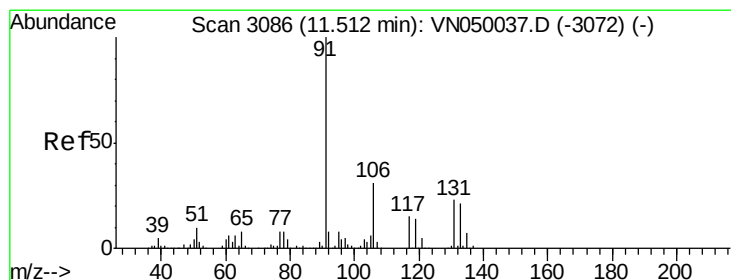
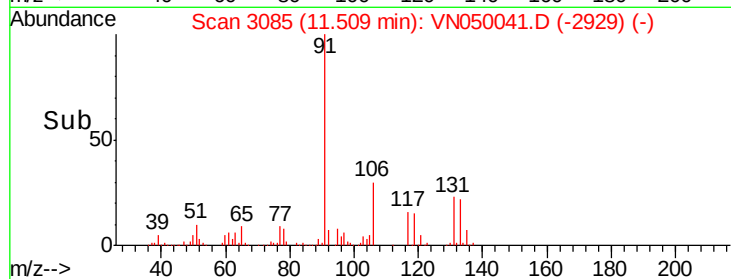
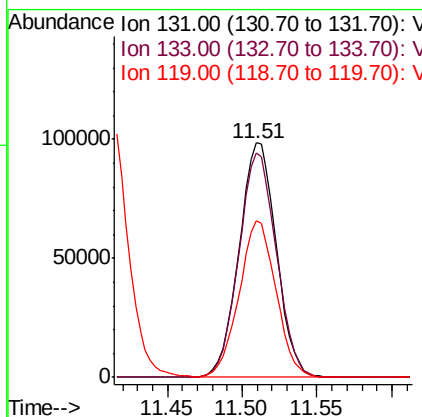
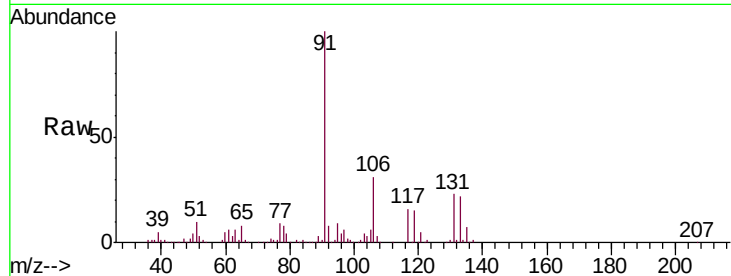
ClientSampleId :

ICVVN072518

Tot Ion:	131	Resp:	170974
Ion Ratio	Lower	Upper	
131	100		
133	96.2	0.0	190.0
119	66.1	0.0	131.6

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



#66

Ethyl Benzene

Concen: 20.06 ug/l

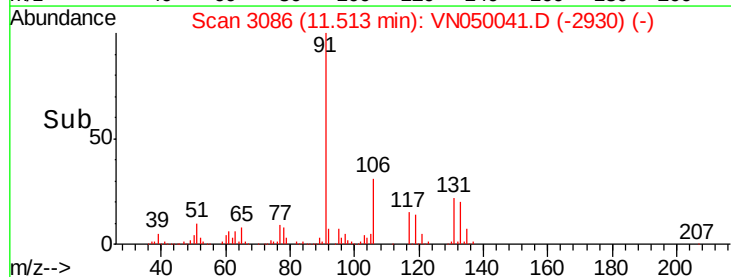
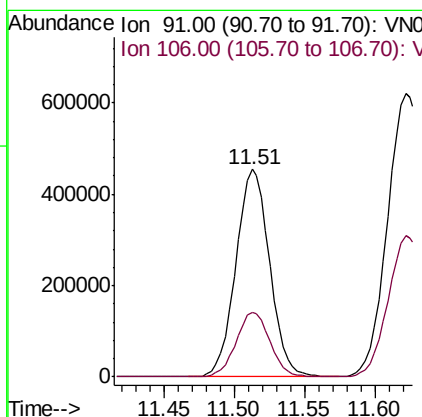
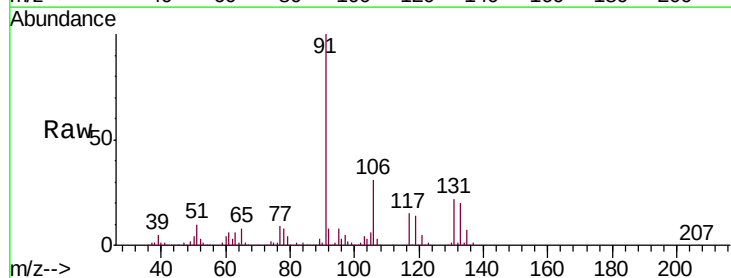
RT: 11.51 min Scan# 3086

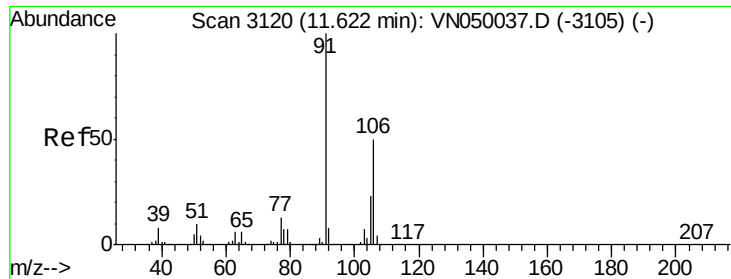
Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Tgt Ion:	91	Resp:	762278
Ion Ratio	Lower	Upper	
91	100		
106	31.4	25.1	37.7





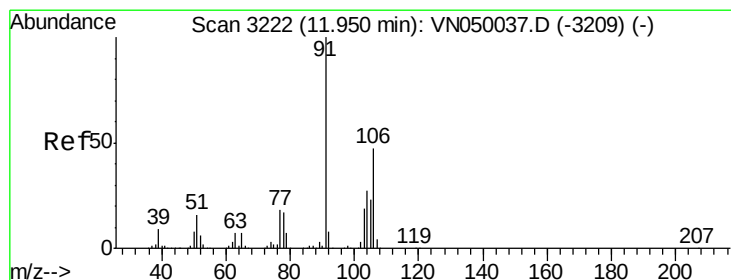
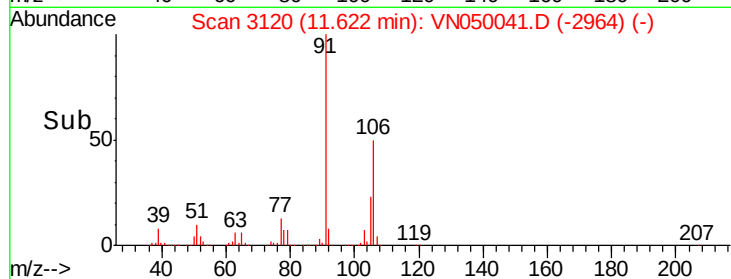
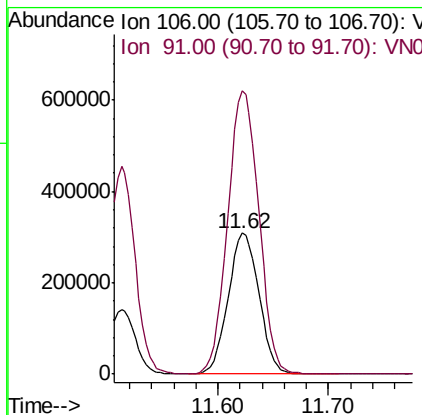
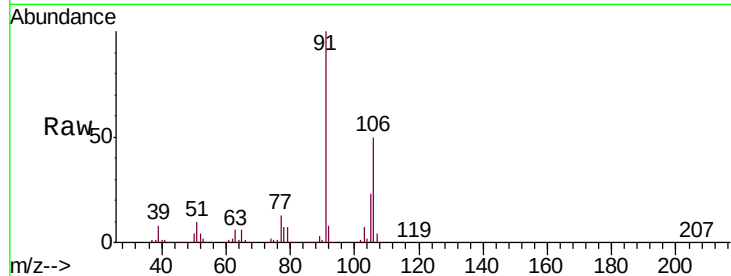
#67
m/p-Xylenes
Concen: 40.97 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		599061		
91	202.2	162.5	243.7		

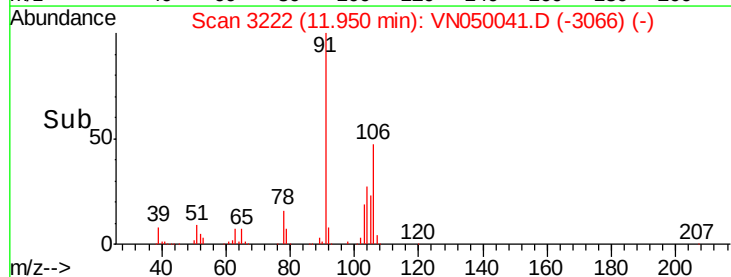
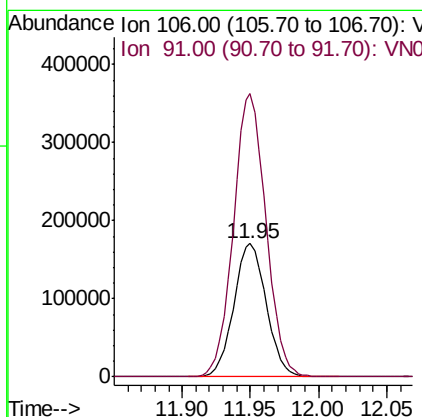
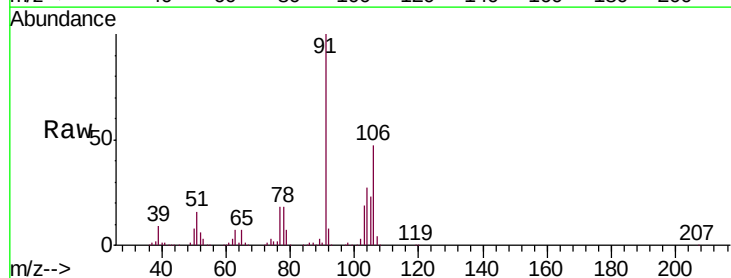
Manual Integrations
APPROVED

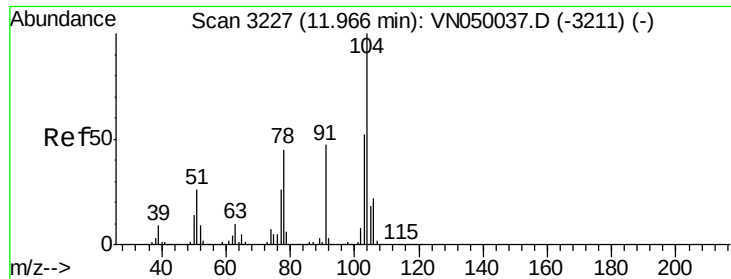
MMDadoda
7/26/2018 3:54:07 PM



#68
o-Xylene
Concen: 20.22 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		281241		
91	213.0	106.8	320.4		





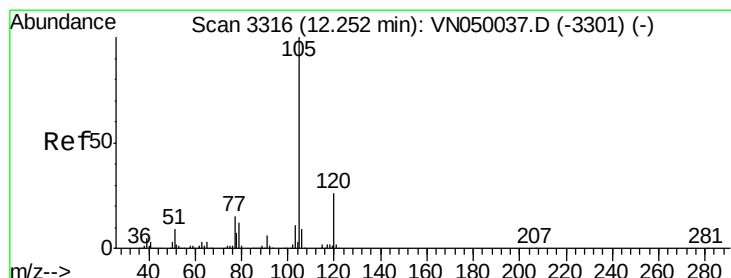
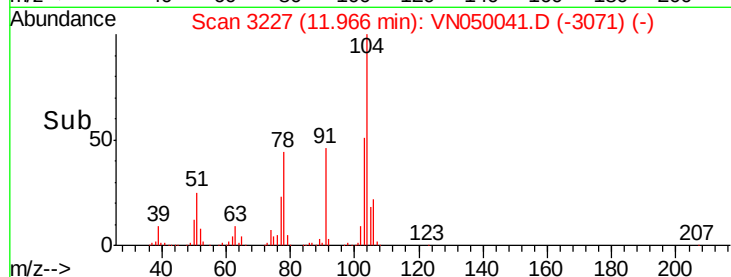
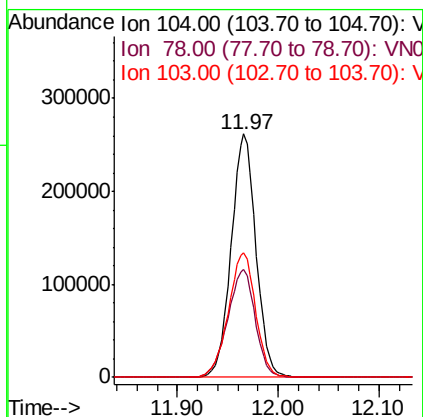
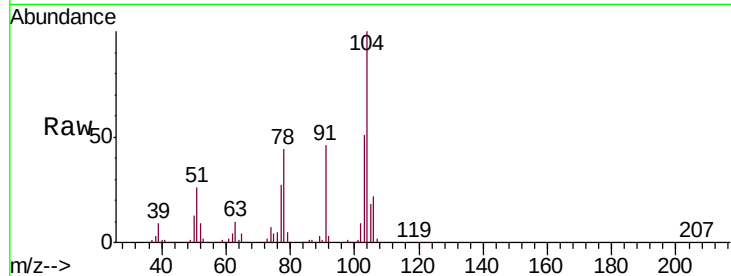
#69
Stvrene
Concen: 20.07 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.4	39.3	58.9
103	56.3	44.5	66.7

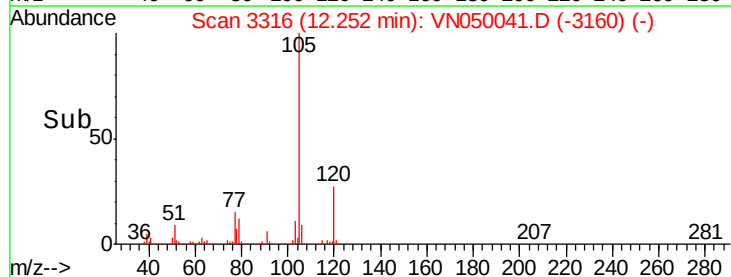
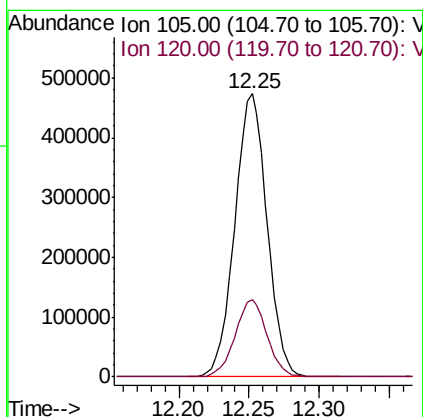
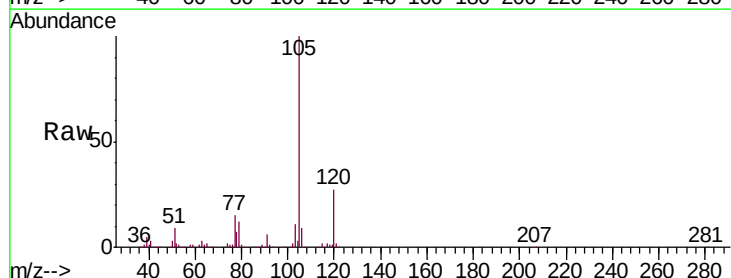
Manual Integrations
APPROVED

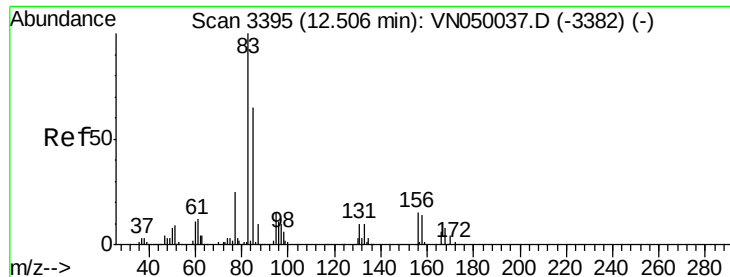
MMDadoda
7/26/2018 3:54:07 PM



#70
Isopropylbenzene
Concen: 20.48 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	18.9	35.1





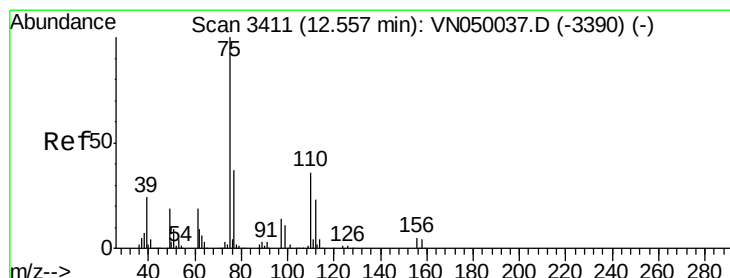
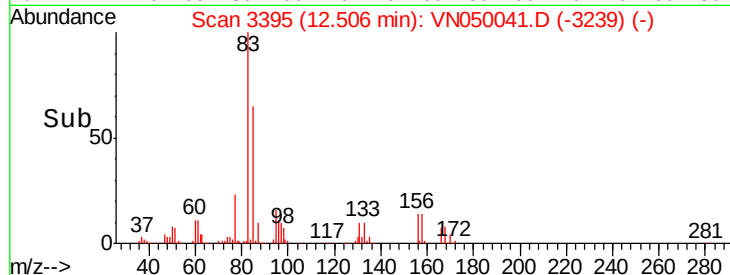
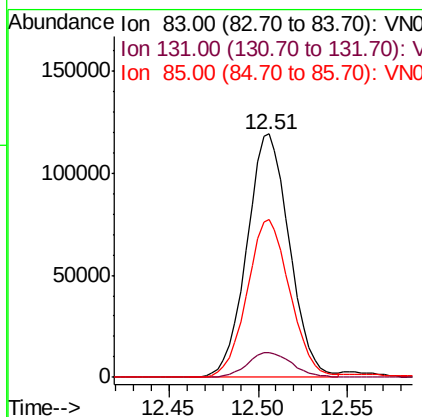
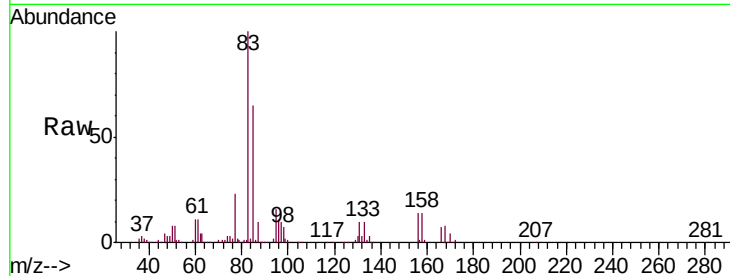
#71
 1,1,2,2-Tetrachloroethane
 Concen: 19.55 ug/l
 RT: 12.51 min Scan# 3395
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

Tot Ion	83	Resp	198846
Ion Ratio	100	Lower	Upper
83	100		
131	10.8	5.2	15.6
85	65.3	31.7	95.1

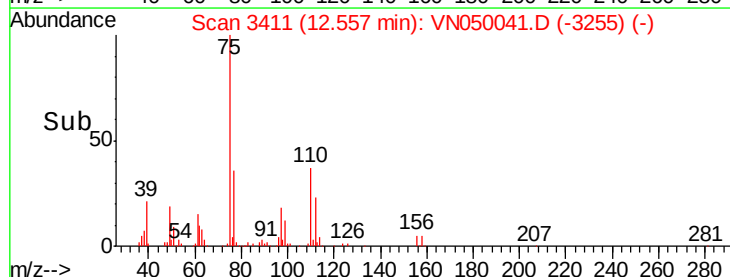
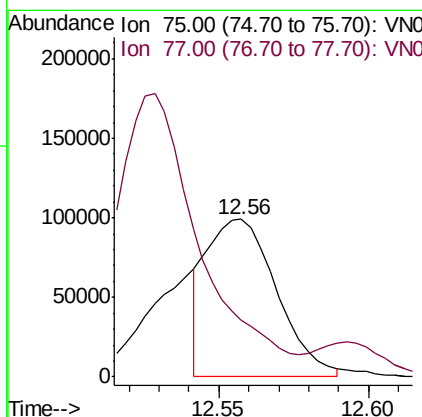
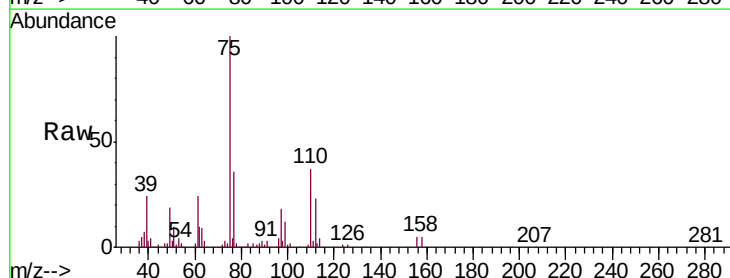
Manual Integrations
 APPROVED

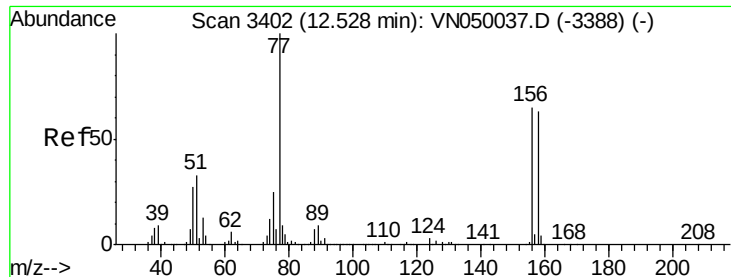
MMDadoda
 7/26/2018 3:54:07 PM



#72
 1,2,3-Trichloropropane
 Concen: 18.62 ug/l m
 RT: 12.56 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Tgt Ion	75	Resp	161778
Ion Ratio	100	Lower	Upper
75	100		
77	220.1	0.0	454.4





#73

Bromobenzene

Concen: 19.98 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

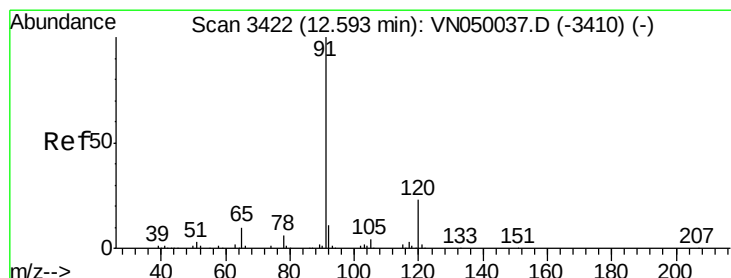
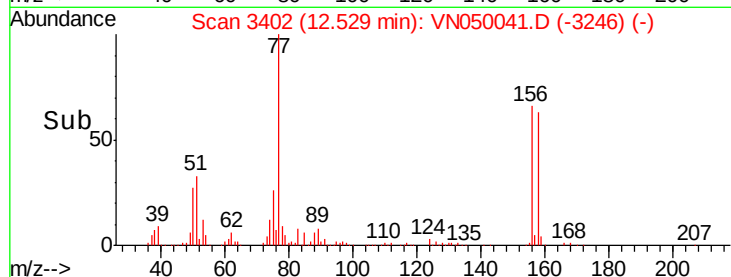
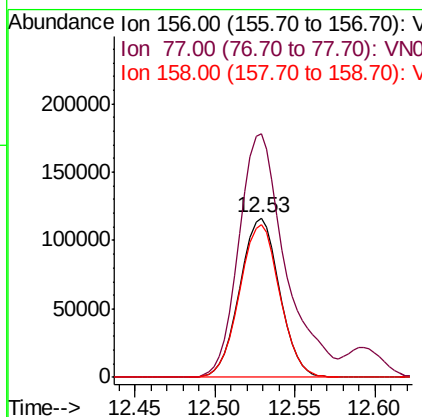
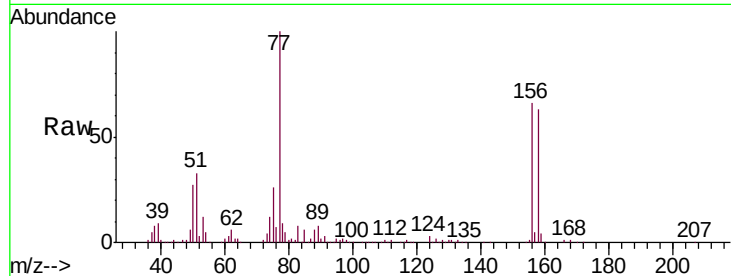
ClientSampleId :

ICVVN072518

Tot Ion:	156	Resp:	197190
Ion Ratio	Lower	Upper	
156	100		
77	180.6	0.0	359.8
158	97.1	0.0	192.8

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



#74

n-propylbenzene

Concen: 20.49 ug/l

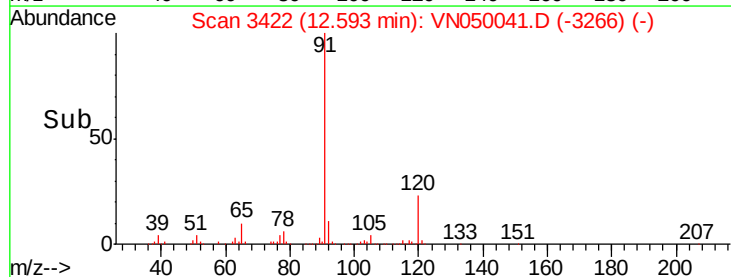
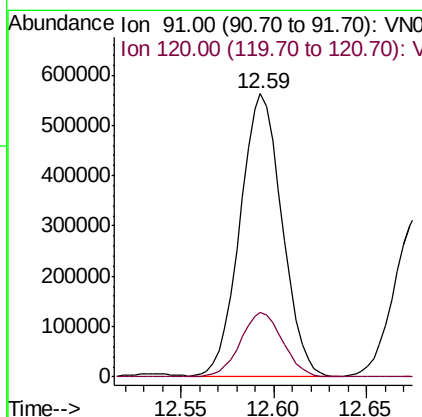
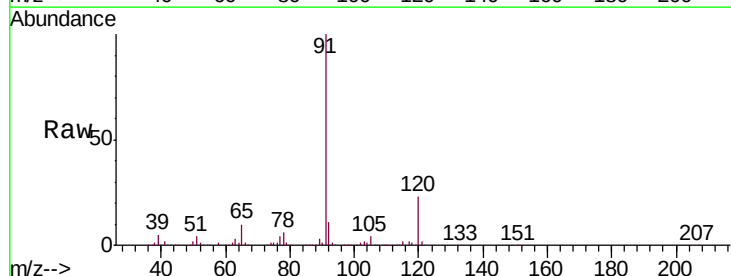
RT: 12.59 min Scan# 3422

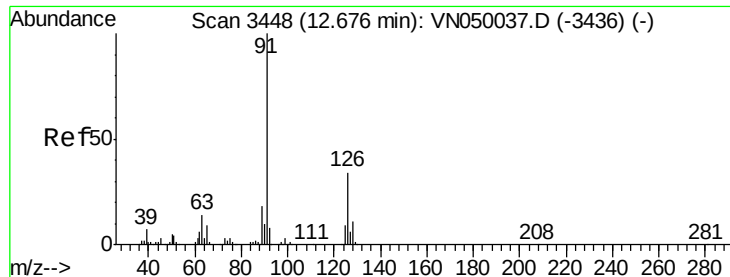
Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Tgt Ion:	91	Resp:	883964
Ion Ratio	Lower	Upper	
91	100		
120	22.9	0.0	46.4





#75

2-Chlorotoluene

Concen: 20.31 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

ICVVN072518

Tot Ion: 91 Resp: 526427

Ion Ratio Lower Upper

91 100

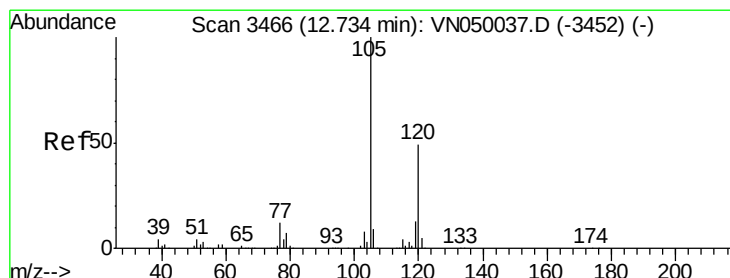
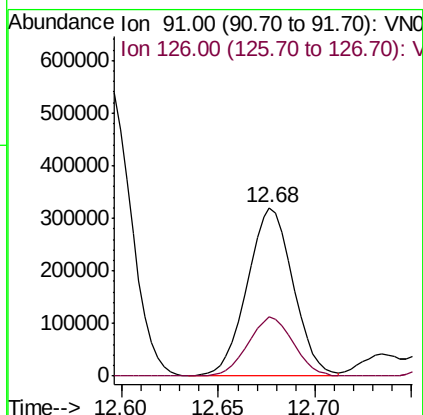
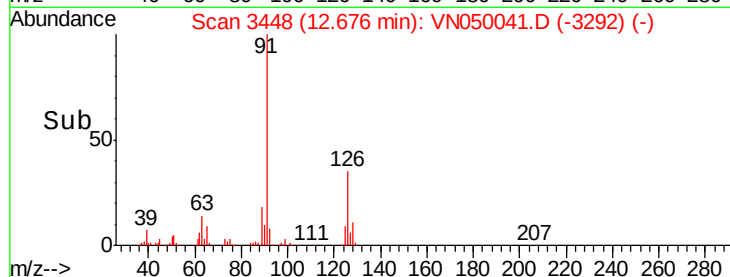
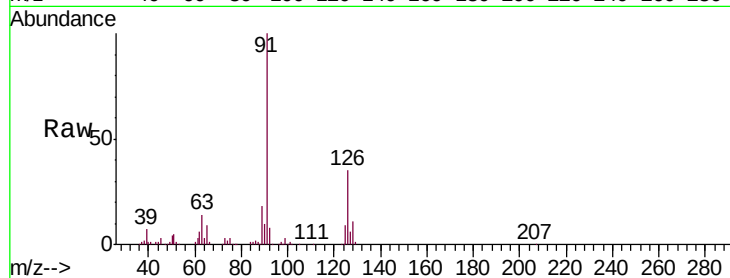
126 34.9 0.0 68.6

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:54:07 PM



#76

1,3,5-Trimethylbenzene

Concen: 20.62 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050041.D

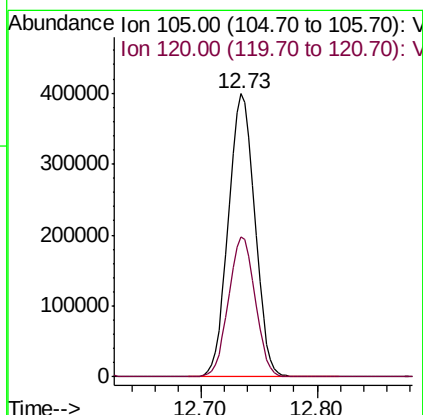
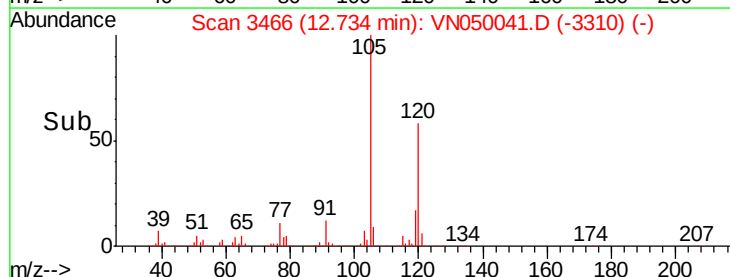
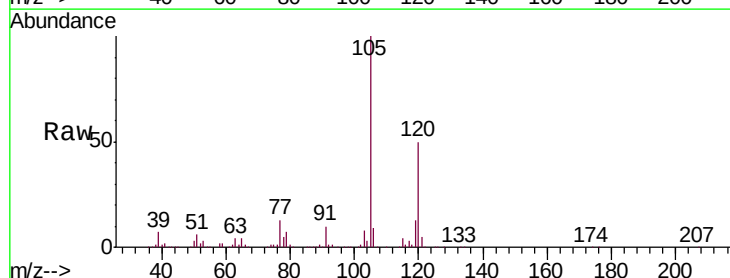
Acq: 25 Jul 2018 10:49

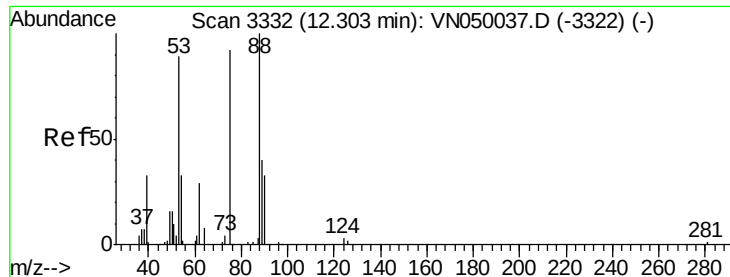
Tgt Ion: 105 Resp: 627518

Ion Ratio Lower Upper

105 100

120 49.6 0.0 98.0





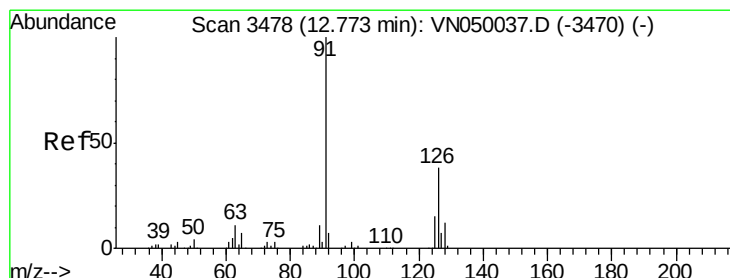
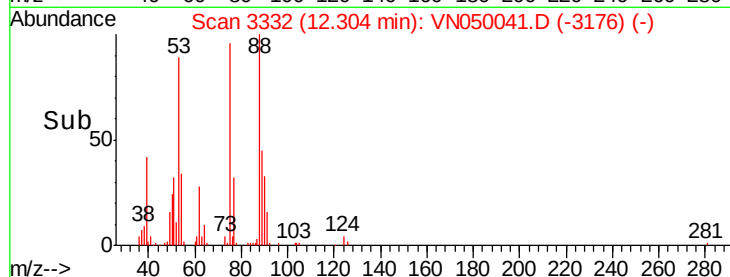
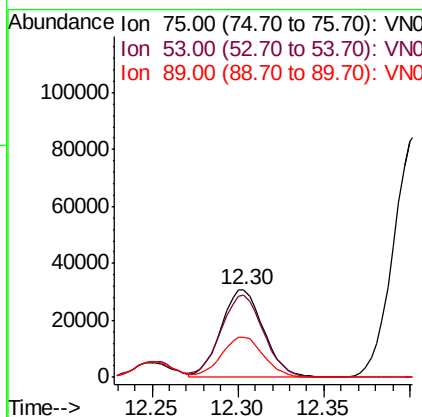
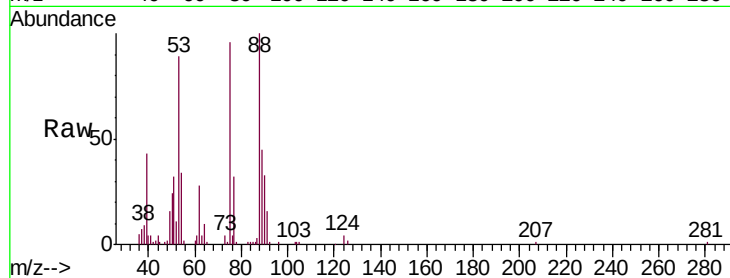
#77
t-1,4-Dichloro-2-butene
Concen: 18.67 ug/l
RT: 12.30 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.5	44.6	134.0
89	46.5	20.7	62.1

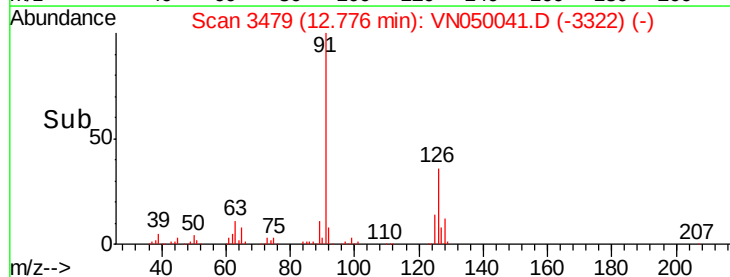
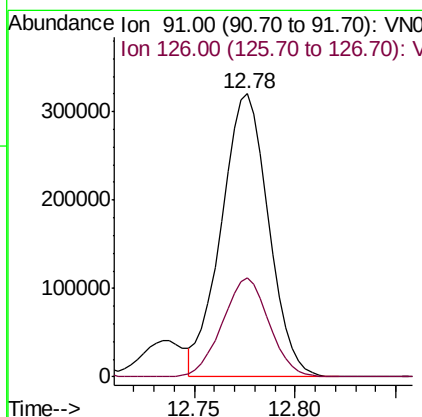
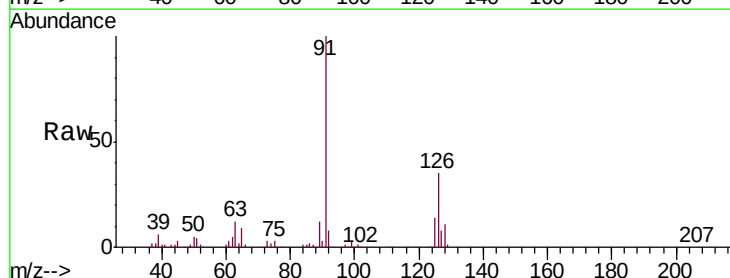
Manual Integrations
APPROVED

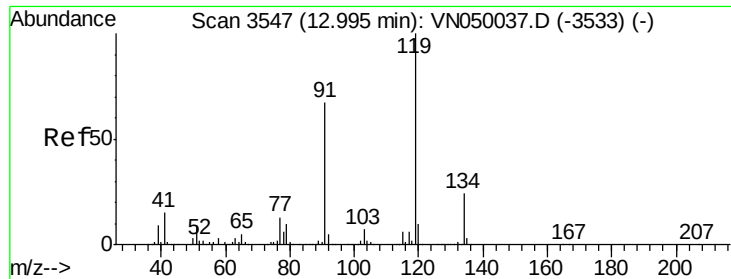
MMDadoda
7/26/2018 3:54:07 PM



#78
4-Chlorotoluene
Concen: 20.37 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	0.0	68.4





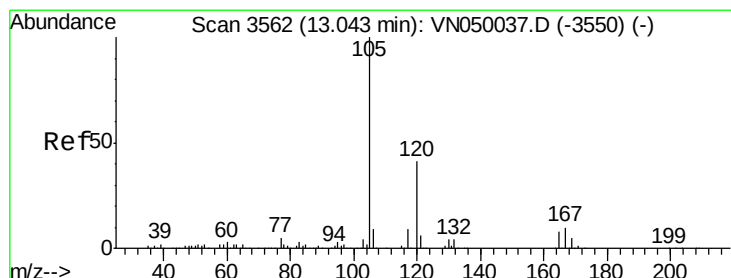
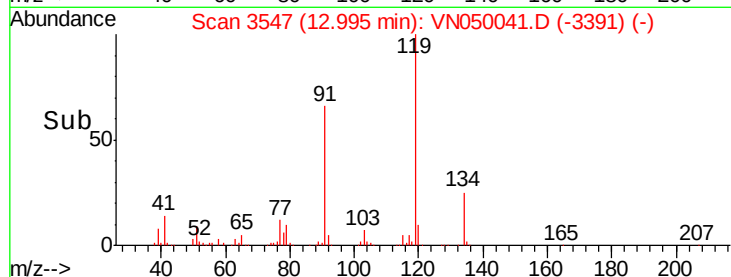
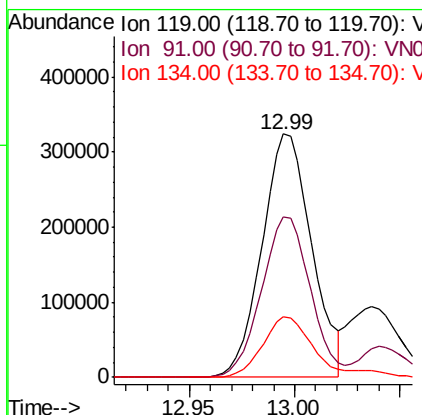
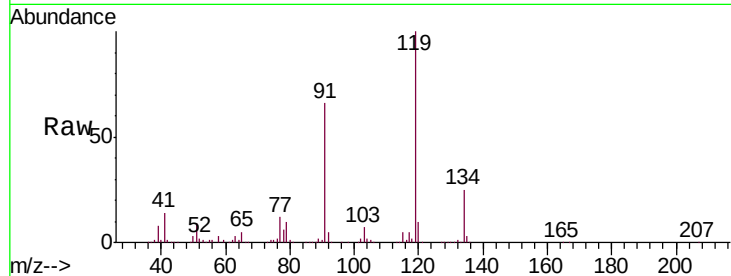
#79
tert-butylbenzene
Concen: 20.48 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Resp	Lower	Upper
119	100	532720		
91	64.6		0.0	126.8
134	24.8		0.0	47.4

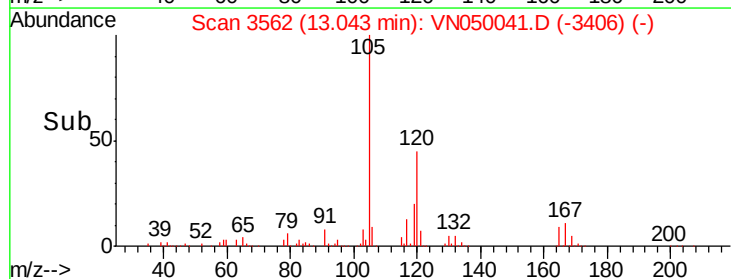
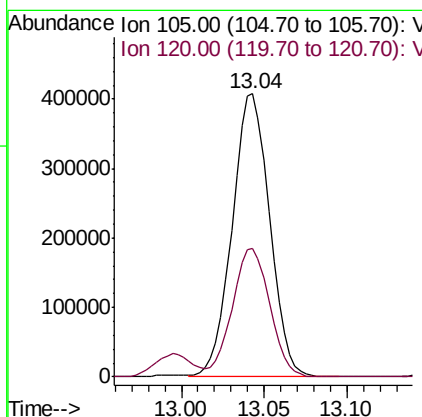
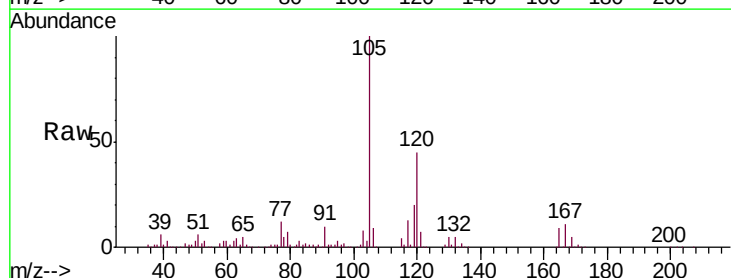
Manual Integrations
APPROVED

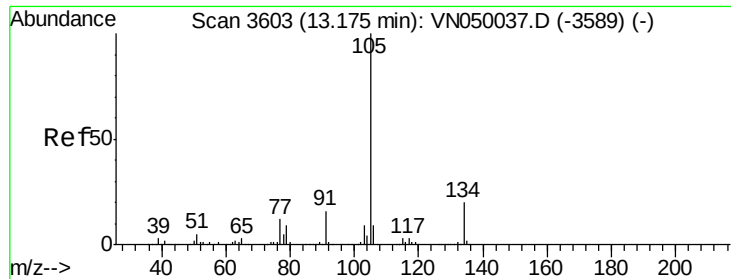
MMDadoda
7/26/2018 3:54:07 PM



#80
1,2,4-Trimethylbenzene
Concen: 20.78 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	640523		
120	45.4		0.0	90.6





#81

sec-Butylbenzene

Concen: 20.78 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

ClientSampled :

ICVVN072518

Tot Ion:105 Resp: 734436

Ion Ratio Lower Upper

105 100

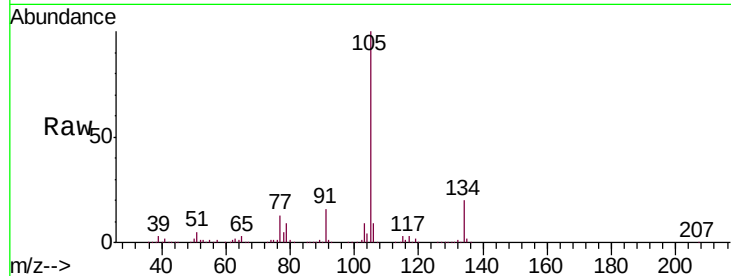
134 19.9 0.0 40.6

Manual Integrations

APPROVED

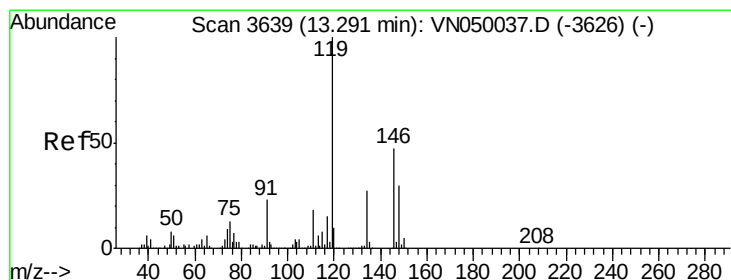
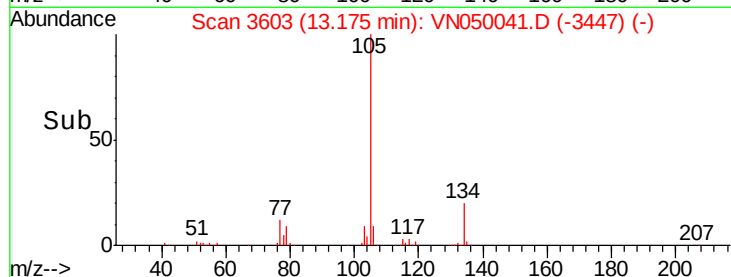
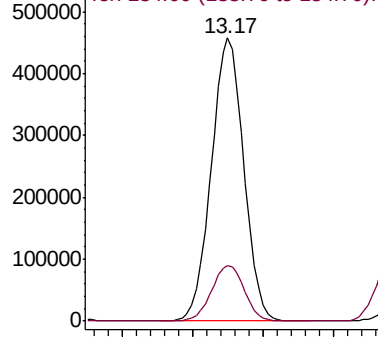
MMDadoda

7/26/2018 3:54:07 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 20.86 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

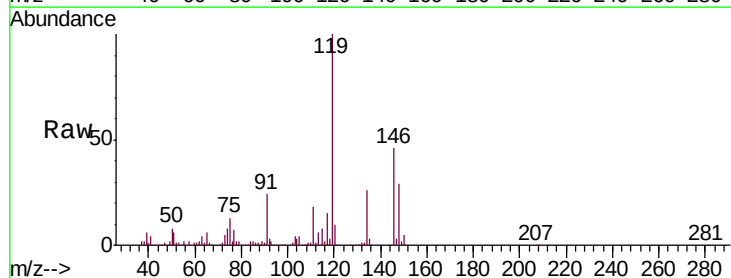
Tgt Ion:119 Resp: 629130

Ion Ratio Lower Upper

119 100

134 26.6 0.0 52.2

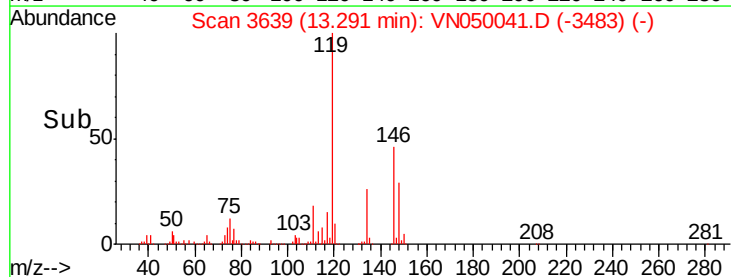
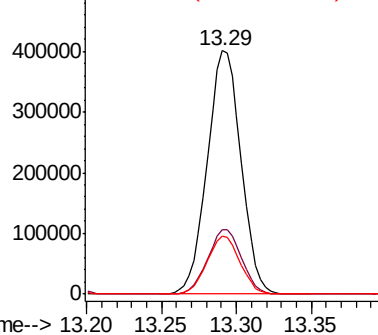
91 23.2 0.0 45.6

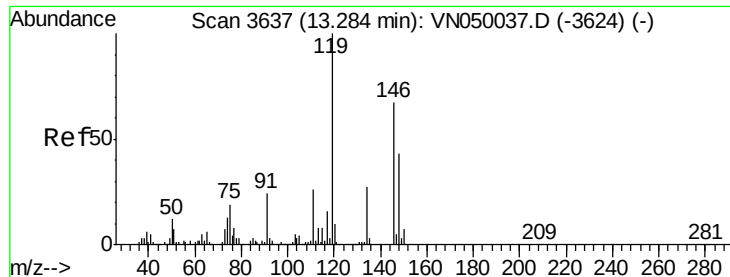


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





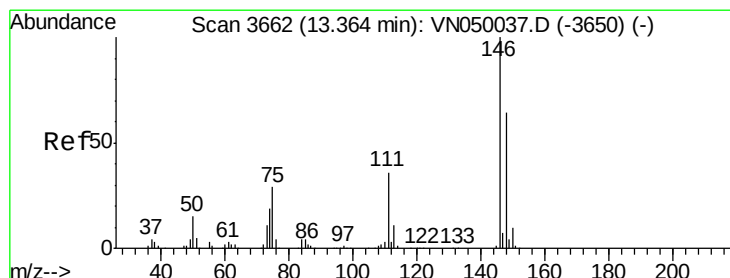
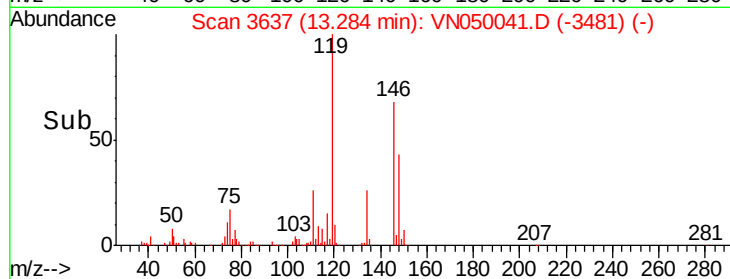
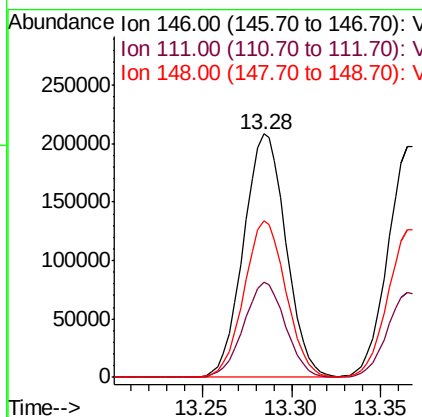
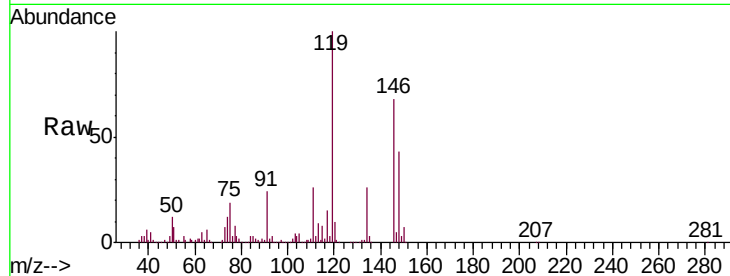
#83
1,3-Dichlorobenzene
Concen: 20.19 ug/l
RT: 13.28 min Scan# 3637
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
ICVVN072518

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.1	57.1
148	63.5	31.9	95.9

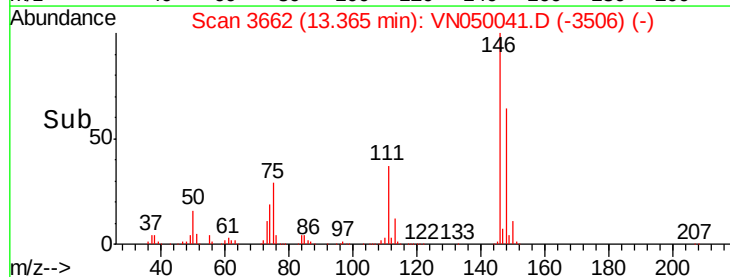
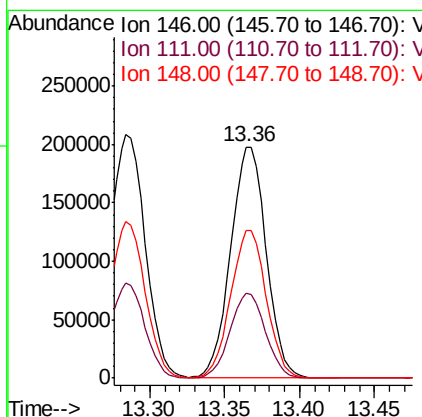
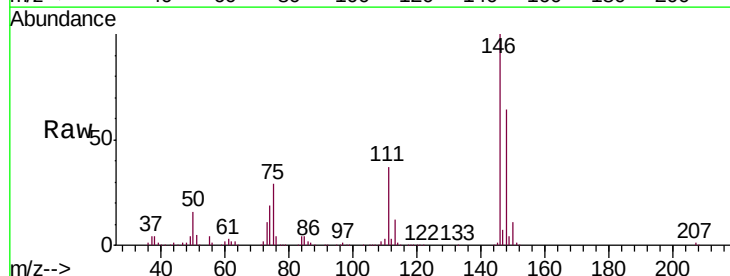
Manual Integrations
APPROVED

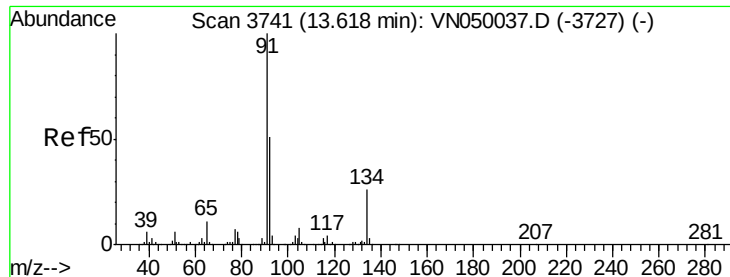
MMDadoda
7/26/2018 3:54:07 PM



#84
1,4-Dichlorobenzene
Concen: 20.21 ug/l
RT: 13.36 min Scan# 3662
Delta R.T. 0.00 min
Lab File: VN050041.D
Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	17.9	53.8
148	63.6	32.4	97.0





#85

n-Butylbenzene

Concen: 20.08 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. -0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

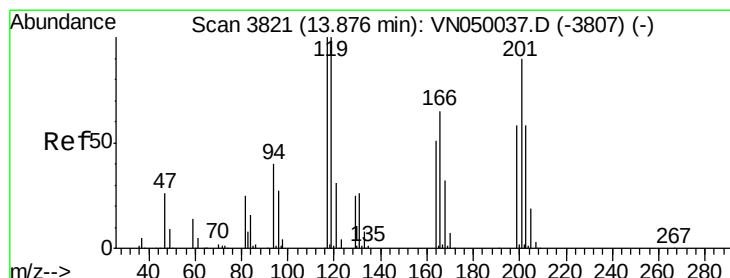
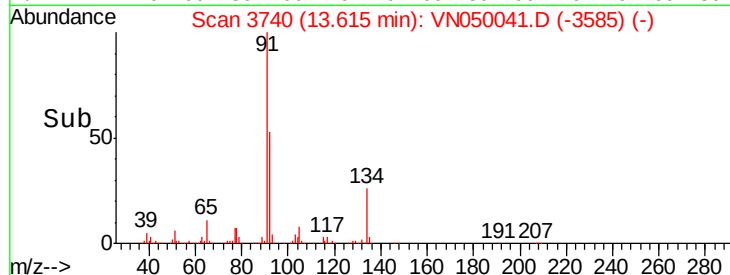
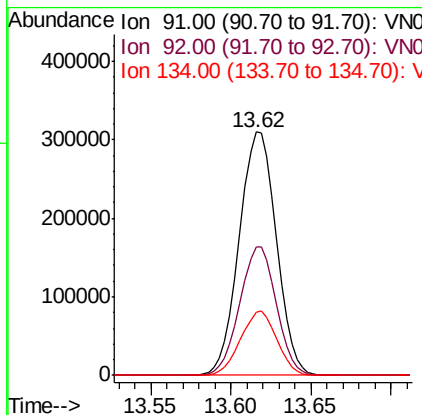
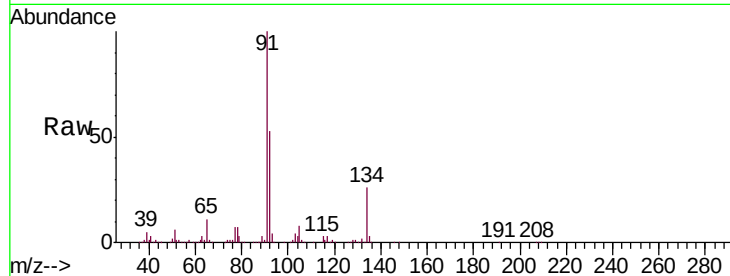
ClientSampleId :

ICVVN072518

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		491355		
92	52.1	0.0	102.8		
134	25.7	0.0	51.0		

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



#86

Hexachloroethane

Concen: 19.43 ug/l

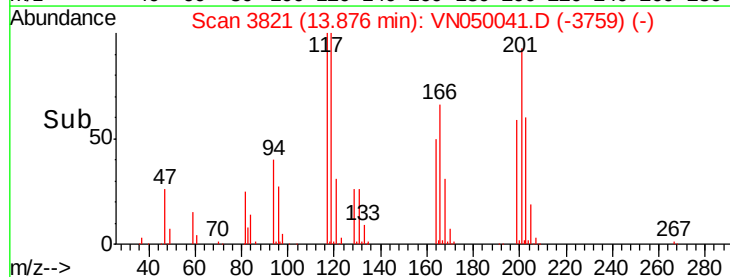
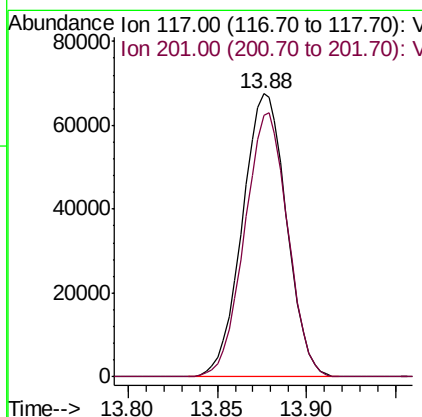
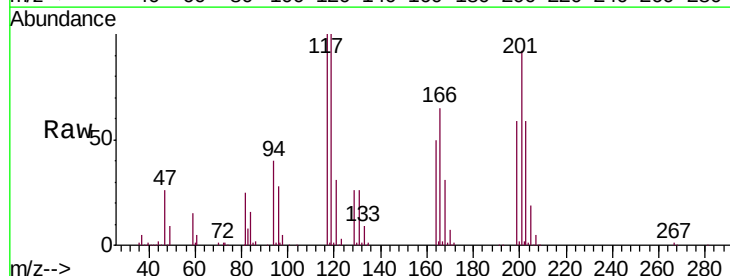
RT: 13.88 min Scan# 3821

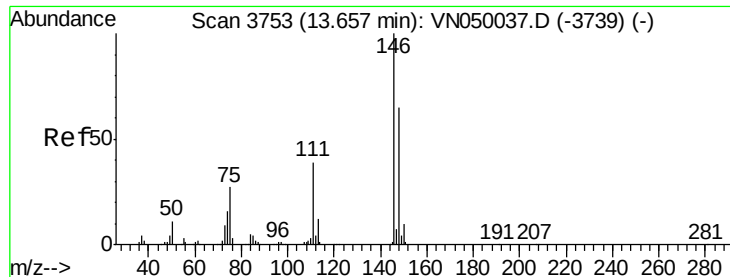
Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		117094		
201	90.9	46.6	139.7		





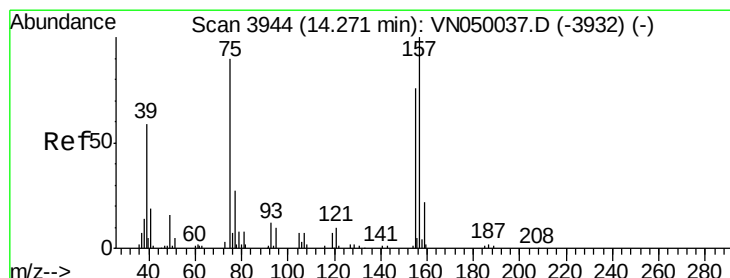
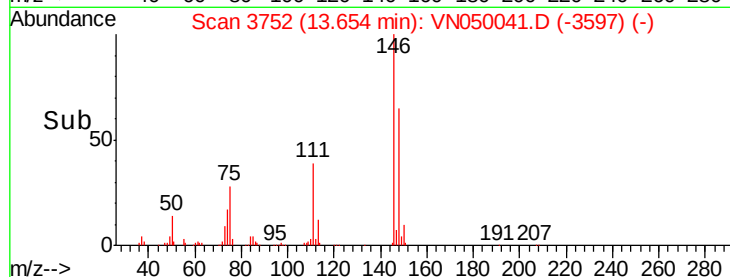
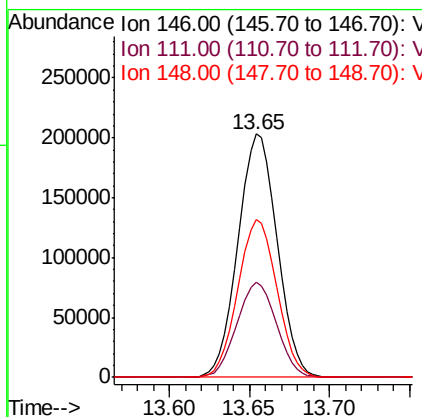
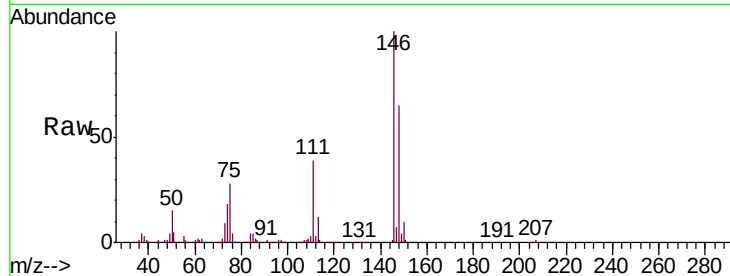
#87
 1,2-Dichlorobenzene
 Concen: 20.22 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.8	59.3
148	64.8	31.8	95.3

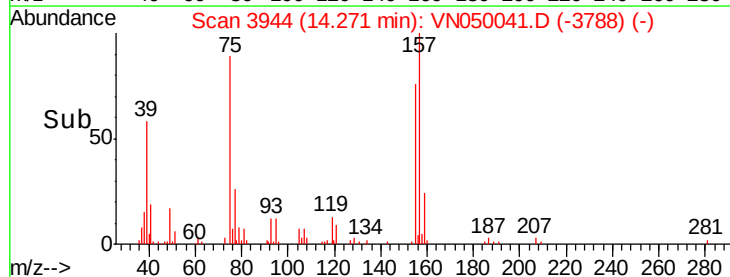
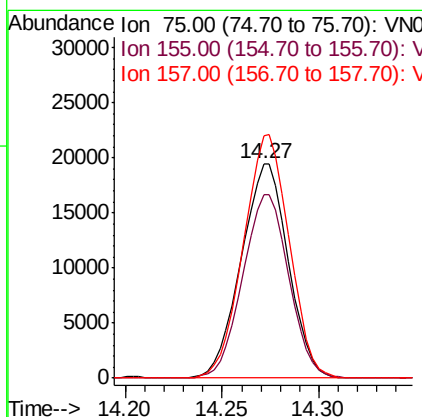
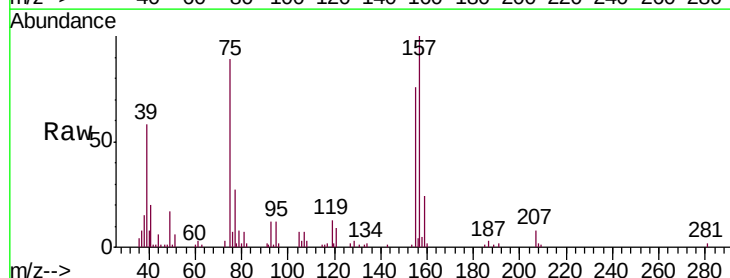
Manual Integrations
 APPROVED

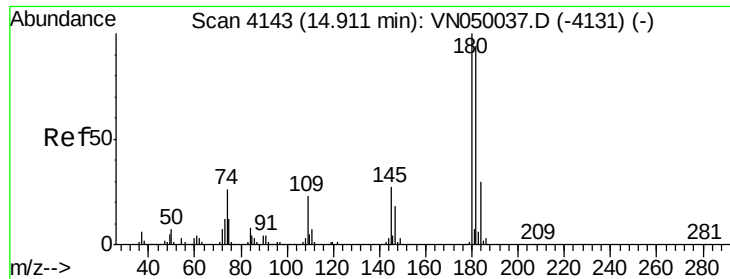
MMDadoda
 7/26/2018 3:54:07 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 20.80 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.8	73.0	109.6
157	110.6	94.9	142.3





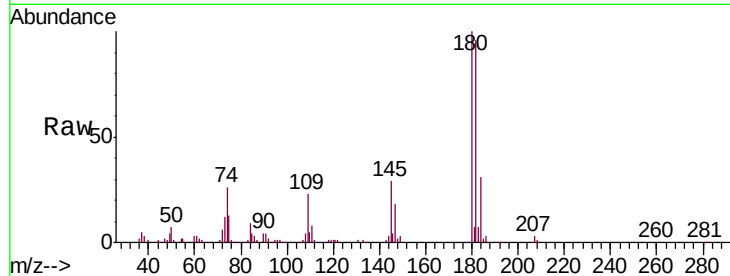
#89
 1,2,4-Trichlorobenzene
 Concen: 21.08 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN072518

Tot Ion	Ratio	Resp	Lower	Upper
180	100	169106		
182	95.0	76.7	115.1	
145	28.5	23.4	35.0	

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:07 PM

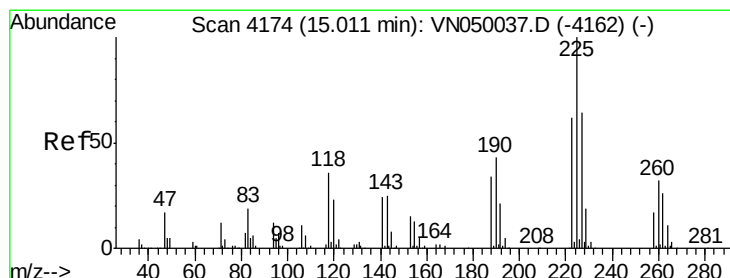
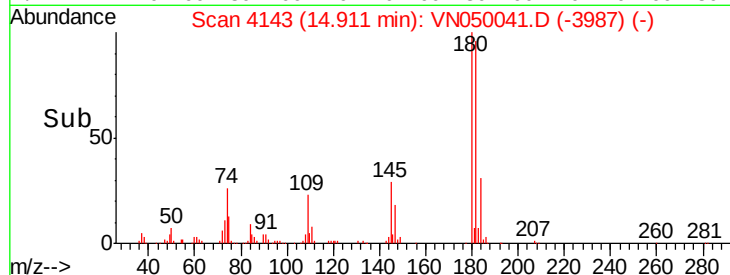
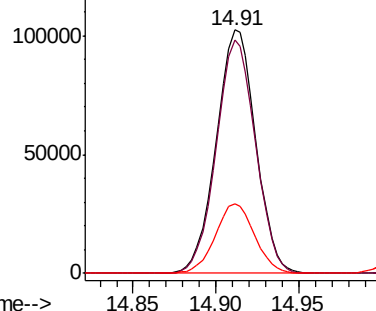


Abundance

Ion 180.00 (179.70 to 180.70): V

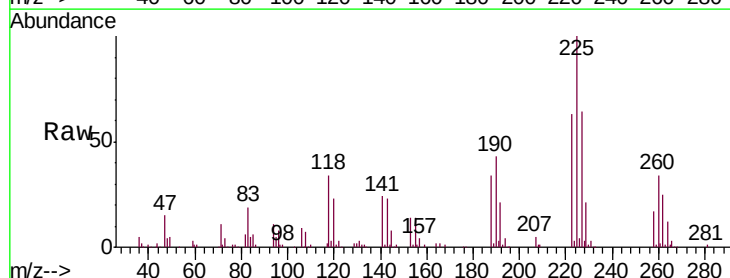
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
 Hexachlorobutadiene
 Concen: 22.75 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050041.D
 Acq: 25 Jul 2018 10:49

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	120339		
223	63.0	0.0	124.4	
227	64.4	0.0	133.0	

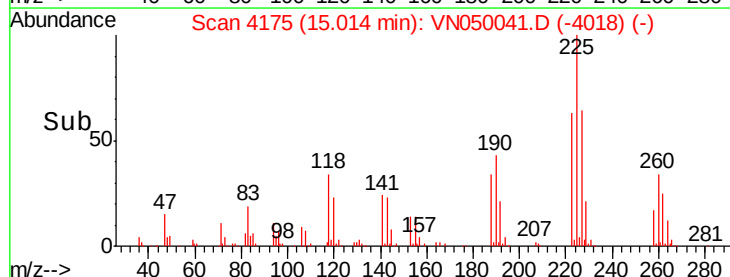
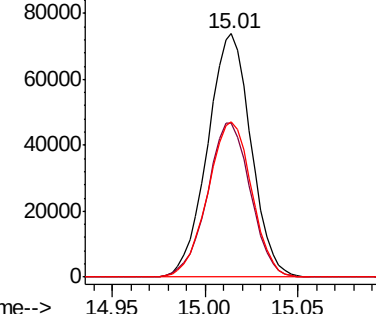


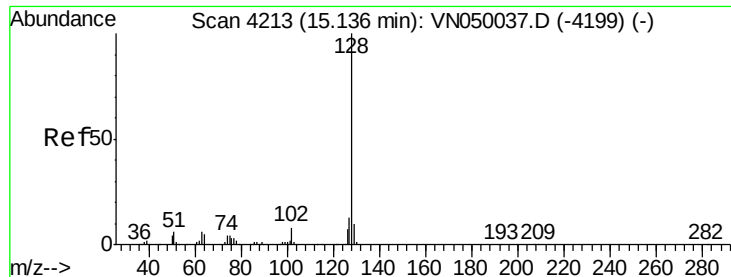
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 22.27 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Instrument :

MSVOA_N

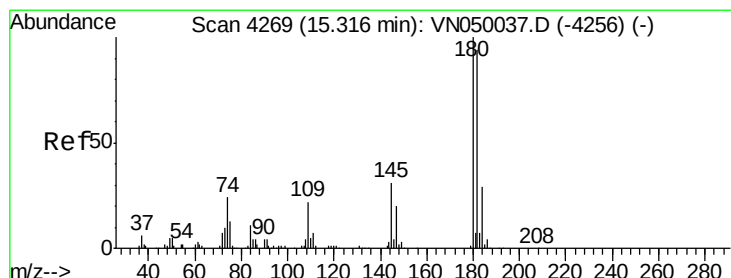
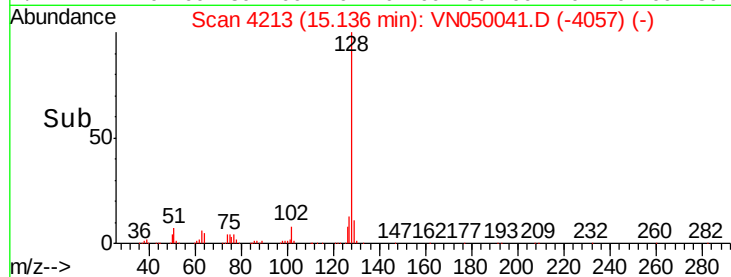
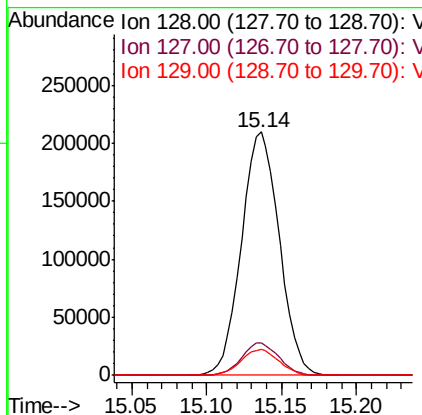
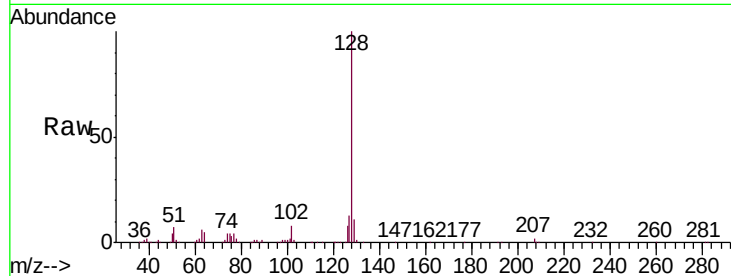
ClientSampleId :

ICVVN072518

Tot Ion:	128	Resp:	367915
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.2	15.4
129	10.7	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:07 PM



#92

1,2,3-Trichlorobenzene

Concen: 21.70 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050041.D

Acq: 25 Jul 2018 10:49

Tgt Ion:	180	Resp:	177090
Ion Ratio	Lower	Upper	
180	100		
182	95.3	0.0	188.8
145	30.3	0.0	60.8

