

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052147.D
 Acq On : 5 Nov 2018 14:29
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 11/6/2018 9:59:58 AM

Quant Time: Nov 05 22:24:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:07:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	426536	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	696511	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	641052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	300746	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	482820	95.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	190.92%	
35) Dibromofluoromethane	7.59	113	445725	103.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	206.14%	
50) Toluene-d8	10.09	98	1725052	103.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	206.36%	
62) 4-Bromofluorobenzene	12.40	95	580586	105.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	211.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	380692	102.352	ug/l	95
3) Chloromethane	2.06	50	485891	96.787	ug/l	99
4) Vinyl Chloride	2.19	62	468300	97.396	ug/l	99
5) Bromomethane	2.57	94	322255	89.650	ug/l	96
6) Chloroethane	2.71	64	293043	95.318	ug/l	99
7) Trichlorofluoromethane	3.02	101	680044	97.366	ug/l	100
8) Diethyl Ether	3.41	74	238208	97.622	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	414850	99.397	ug/l	99
10) Methyl Iodide	3.96	142	625010	106.065	ug/l	99
11) Tert butyl alcohol	4.78	59	99166	450.590	ug/l #	90
12) 1,1-Dichloroethene	3.74	96	385677	98.152	ug/l	100
13) Acrolein	3.61	56	108378	547.747	ug/l	96
14) Allyl chloride	4.33	41	646551	98.587	ug/l	92
15) Acrylonitrile	4.99	53	706126	487.716	ug/l	99
16) Acetone	3.81	43	517818	451.884	ug/l	97
17) Carbon Disulfide	4.06	76	1150557	102.609	ug/l	100
18) Methyl Acetate	4.32	43	318881	89.919	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1077046	99.503	ug/l	97
20) Methylene Chloride	4.56	84	449703	94.449	ug/l	96
21) trans-1,2-Dichloroethene	5.05	96	431648	105.633	ug/l	98
22) Diisopropyl ether	5.95	45	1428702	98.819	ug/l	99
23) Vinyl Acetate	5.90	43	4986000	524.318	ug/l	100
24) 1,1-Dichloroethane	5.85	63	812510	99.345	ug/l	100
25) 2-Butanone	6.83	43	814280	458.263	ug/l	99
26) 2,2-Dichloropropane	6.83	77	650142	101.634	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	504930	101.859	ug/l	97
28) Bromochloromethane	7.20	49	382295	98.734	ug/l	93
29) Tetrahydrofuran	7.21	42	533444	485.211	ug/l	99
30) Chloroform	7.37	83	827191	101.559	ug/l	97
31) Cyclohexane	7.66	56	751098	81.341	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	721002	99.797	ug/l	99
36) 1,1-Dichloropropene	7.80	75	636681	103.331	ug/l	98
37) Ethyl Acetate	6.93	43	376638	97.078	ug/l	96
38) Carbon Tetrachloride	7.78	117	658761	107.015	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052147.D
 Acq On : 5 Nov 2018 14:29
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 11/6/2018 9:59:58 AM

Quant Time: Nov 05 22:24:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:07:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	778388	106.668	ug/l	100
40) Benzene	8.04	78	1869158	103.194	ug/l	100
41) Methacrylonitrile	7.17	41	213069	106.841	ug/l	96
42) 1,2-Dichloroethane	8.12	62	586730	100.764	ug/l	99
43) Isopropyl Acetate	8.17	43	696646	99.091	ug/l #	90
44) Trichloroethene	8.84	130	508260	105.986	ug/l	100
45) 1,2-Dichloropropane	9.12	63	492947	102.763	ug/l	97
46) Dibromomethane	9.21	93	304314	99.753	ug/l	98
47) Bromodichloromethane	9.40	83	634329	106.617	ug/l	100
48) Methyl methacrylate	9.20	41	348362	102.954	ug/l	99
49) 1,4-Dioxane	9.20	88	55483	2031.613	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	1879642	506.074	ug/l	99
52) Toluene	10.16	92	1172377	107.335	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	653388	111.947	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	750711	109.916	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	405458	105.287	ug/l	99
56) Ethyl methacrylate	10.43	69	532840	106.152	ug/l	99
57) 1,3-Dichloropropane	10.71	76	695426	102.506	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	1453669	538.116	ug/l	99
59) 2-Hexanone	10.75	43	1273759	492.652	ug/l	99
60) Dibromochloromethane	10.90	129	490327	111.962	ug/l	99
61) 1,2-Dibromoethane	11.01	107	421247	107.759	ug/l	100
64) Tetrachloroethene	10.63	164	440062	105.960	ug/l	98
65) Chlorobenzene	11.43	112	1327567	101.603	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	469045	106.892	ug/l	98
67) Ethyl Benzene	11.51	91	2259167	104.099	ug/l	100
68) m/p-Xylenes	11.62	106	1766462	210.949	ug/l	99
69) o-Xylene	11.95	106	846579	104.246	ug/l	99
70) Styrene	11.96	104	1372382	106.752	ug/l	99
71) Bromoform	12.13	173	294955	116.074	ug/l #	99
73) Isopropylbenzene	12.25	105	2253602	99.106	ug/l	99
74) N-amyl acetate	12.07	43	669782	93.039	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	467812	93.987	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	414097m	103.145	ug/l	
77) Bromobenzene	12.53	156	545468	100.594	ug/l	98
78) n-propylbenzene	12.59	91	2569521	98.875	ug/l	100
79) 2-Chlorotoluene	12.67	91	1466042	96.201	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	1806987	98.172	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	143095	108.257	ug/l	95
82) 4-Chlorotoluene	12.77	91	1502958	98.124	ug/l	100
83) tert-Butylbenzene	12.99	119	1577867	97.083	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1840370	100.444	ug/l	98
85) sec-Butylbenzene	13.17	105	2167611	98.632	ug/l	99
86) p-Isopropyltoluene	13.29	119	1882689	101.780	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	954749	99.635	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	953103	99.511	ug/l	99
89) n-Butylbenzene	13.61	91	1609426	100.482	ug/l	99
90) Hexachloroethane	13.87	117	333266	106.904	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	904736	100.606	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	64746	98.541	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
Data File : VN052147.D
Acq On : 5 Nov 2018 14:29
Operator : MD\SY
Sample : VSTDICC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM

Quant Time: Nov 05 22:24:11 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 05 22:07:13 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	417538	99.897	ug/l	99
94) Hexachlorobutadiene	15.01	225	212906	87.622	ug/l	99
95) Naphthalene	15.13	128	935289	101.557	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	360955	97.459	ug/l	98

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

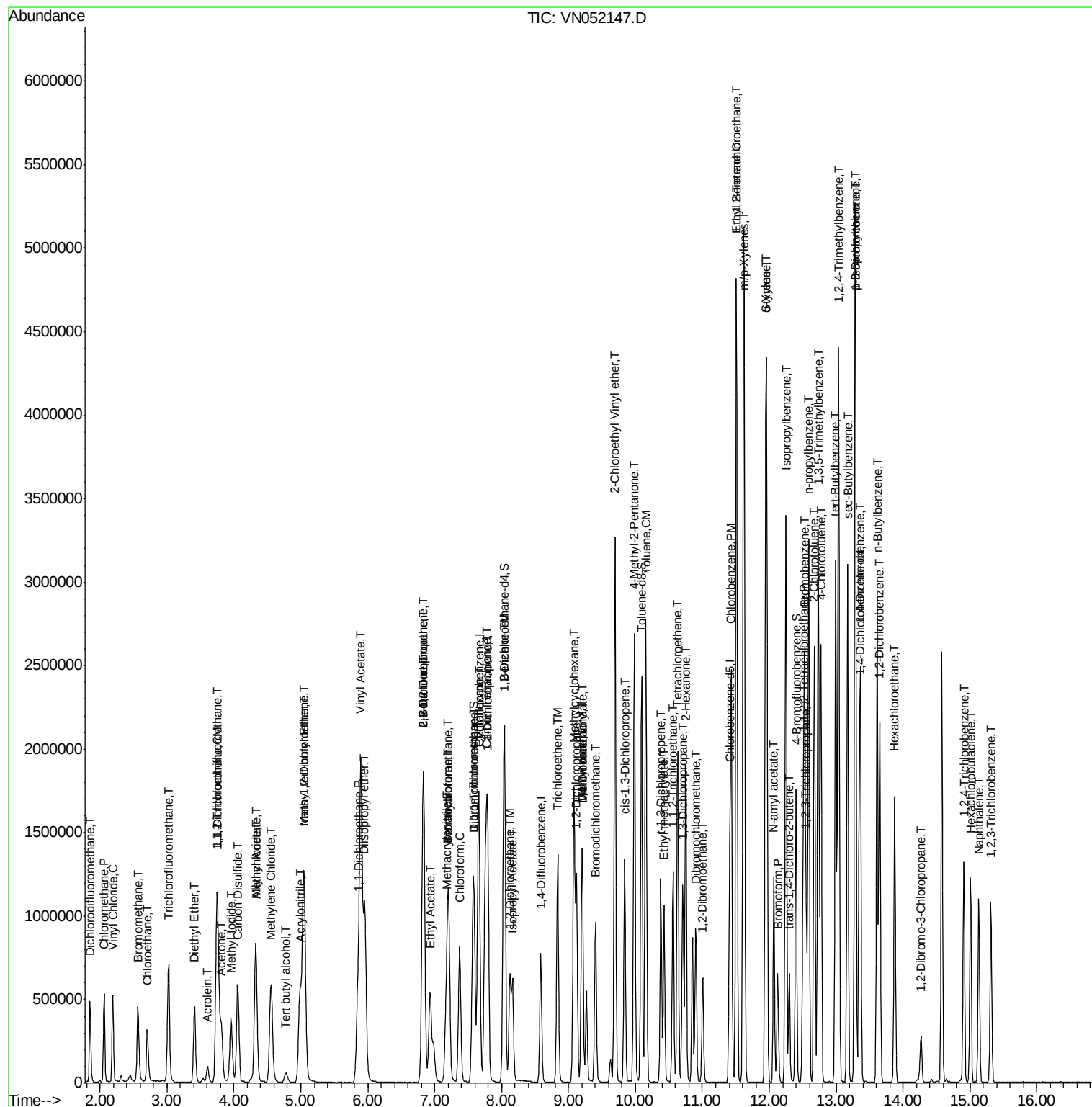
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN110518\
Data File : VN052147.D
Acq On : 5 Nov 2018 14:29
Operator : MD\SY
Sample : VSTDIC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 28

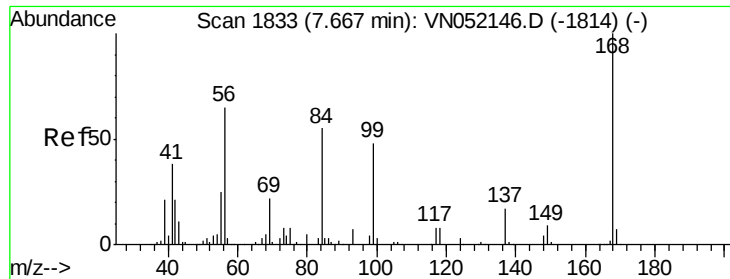
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM

Quant Time: Nov 05 22:24:11 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 05 22:07:13 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 426536

Ion Ratio Lower Upper

168 100

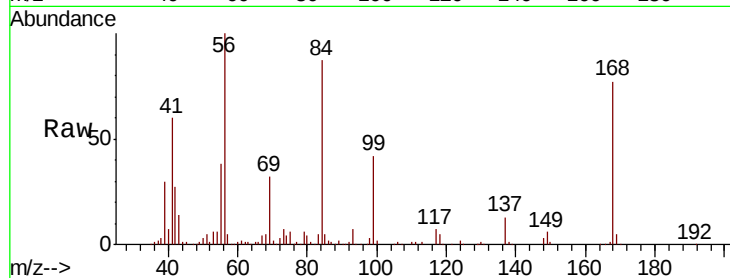
99 55.0 45.4 68.2

Manual Integrations

APPROVED

MMDadoda

11/6/2018 9:59:58 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

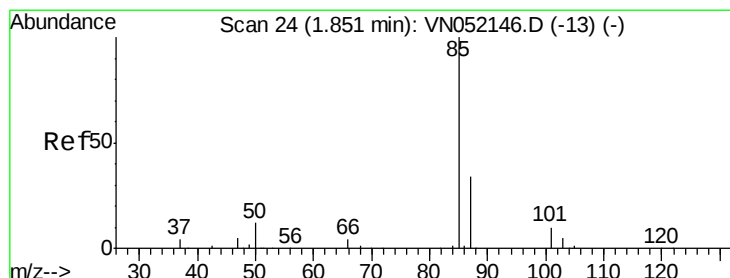
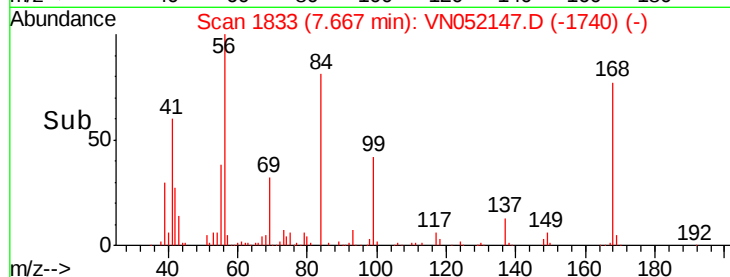
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 102.352 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052147.D

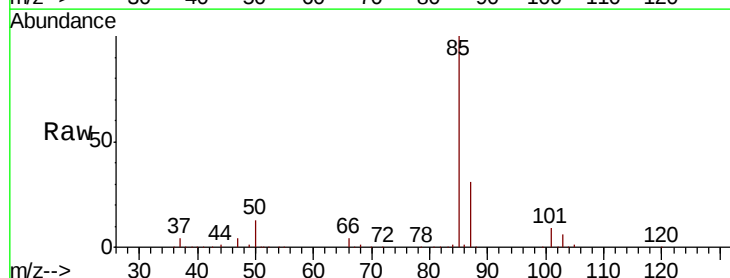
Acq: 5 Nov 2018 14:29

Tgt Ion: 85 Resp: 380692

Ion Ratio Lower Upper

85 100

87 31.1 17.0 51.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300000

250000

200000

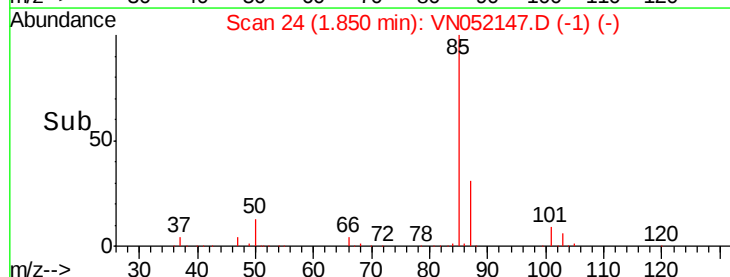
150000

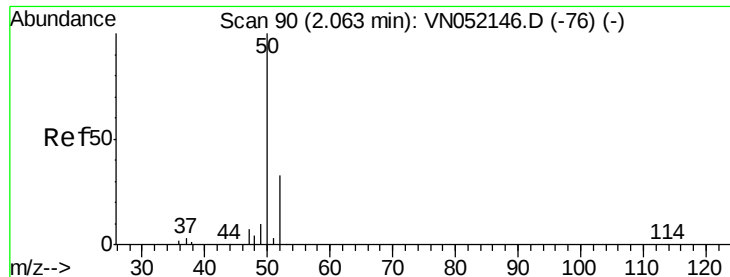
100000

50000

0

Time-->





#3

Chloromethane

Concen: 96.787 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 485891

Ion Ratio Lower Upper

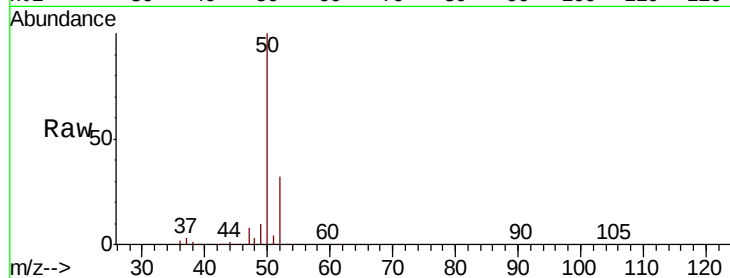
50 100

52 32.2 26.2 39.4

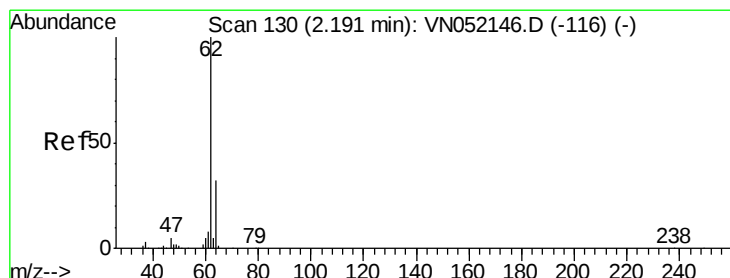
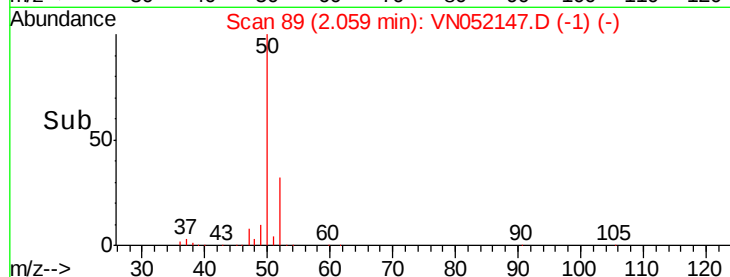
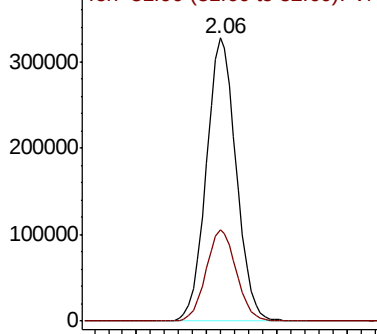
Manual Integrations
APPROVED

MMDadoda

11/6/2018 9:59:58 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO
Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 97.396 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052147.D

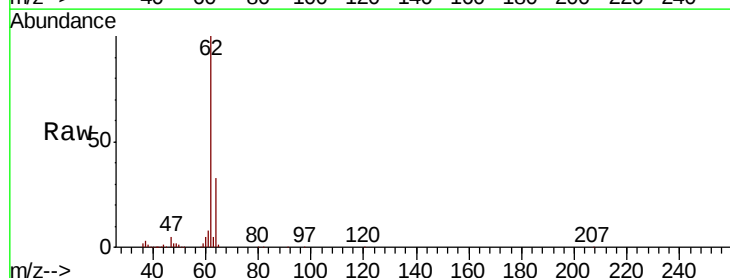
Acq: 5 Nov 2018 14:29

Tgt Ion: 62 Resp: 468300

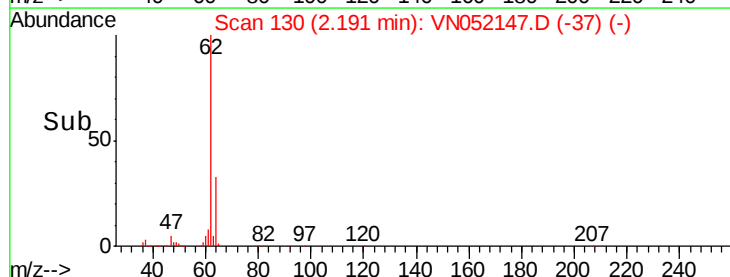
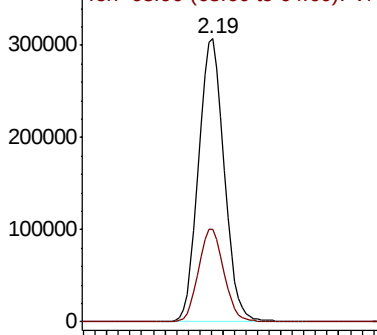
Ion Ratio Lower Upper

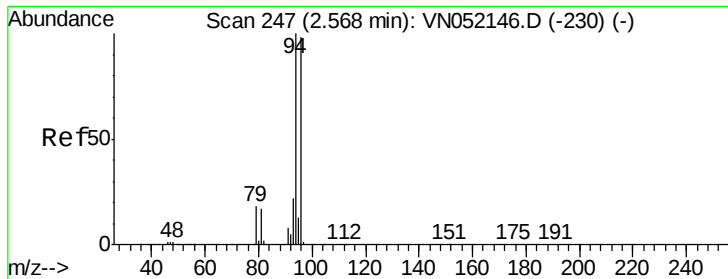
62 100

64 32.8 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 89.650 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 322255

Ion Ratio Lower Upper

94 100

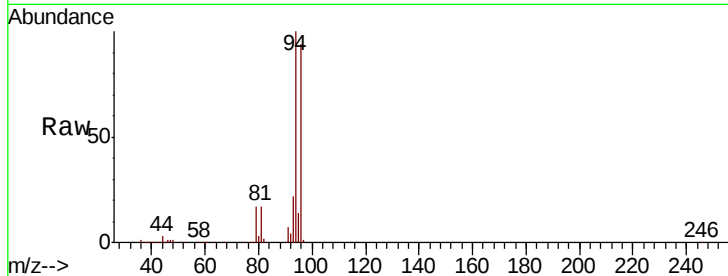
96 94.0 78.3 117.5

Manual Integrations

APPROVED

MMDadoda

11/6/2018 9:59:58 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

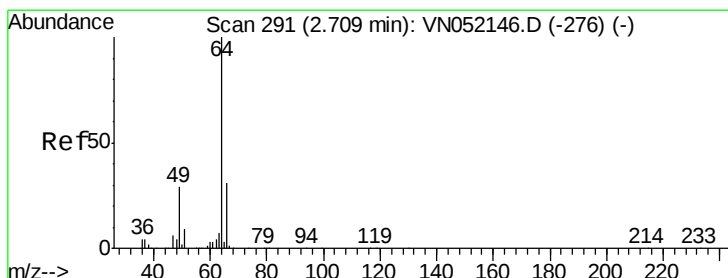
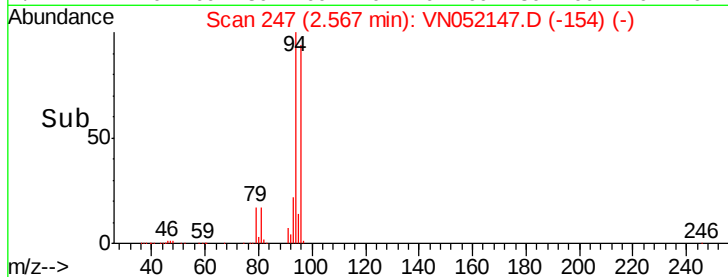
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 95.318 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052147.D

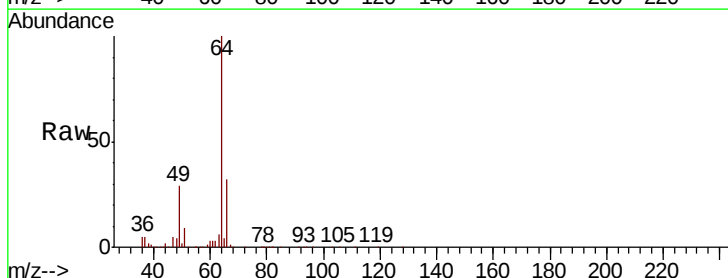
Acq: 5 Nov 2018 14:29

Tgt Ion: 64 Resp: 293043

Ion Ratio Lower Upper

64 100

66 31.7 24.7 37.1



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.71

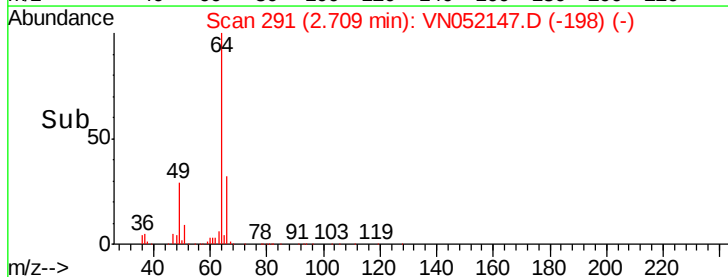
150000

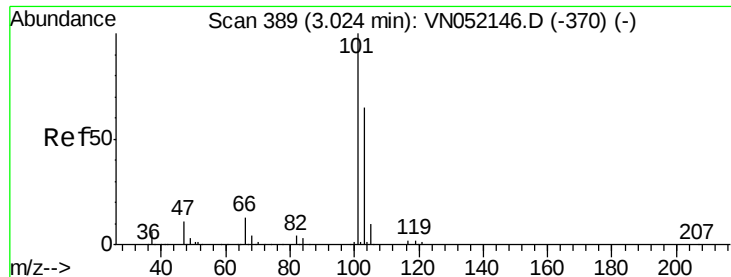
100000

50000

0

Time-->





#7

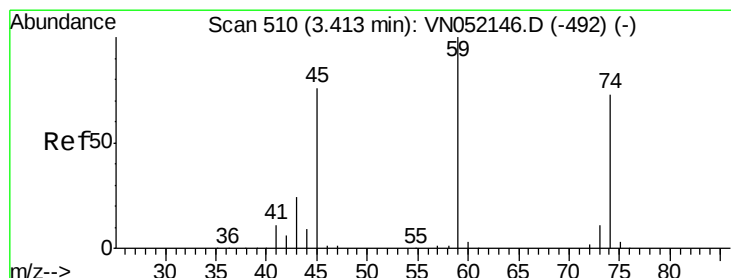
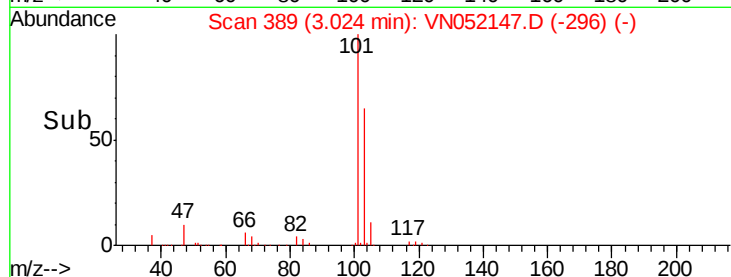
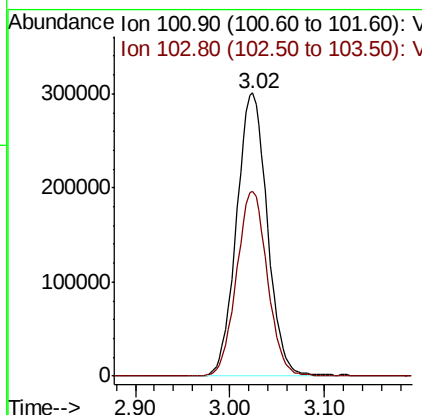
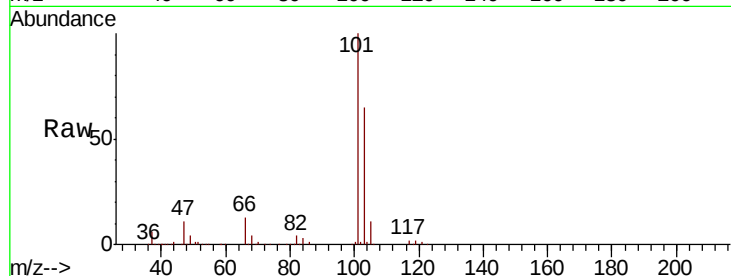
Trichlorofluoromethane
 Concen: 97.366 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	52.2	78.4

Manual Integrations
 APPROVED

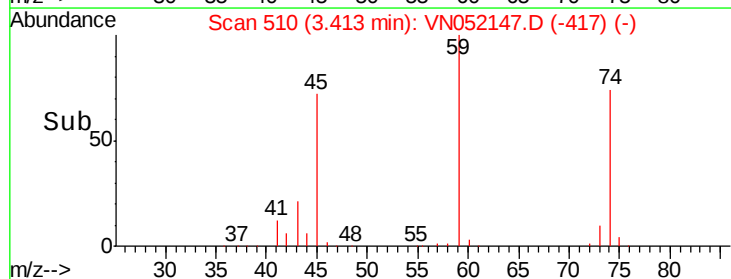
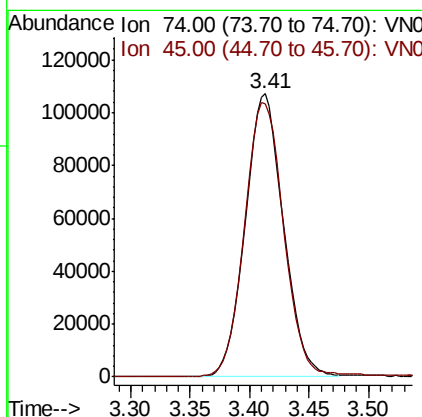
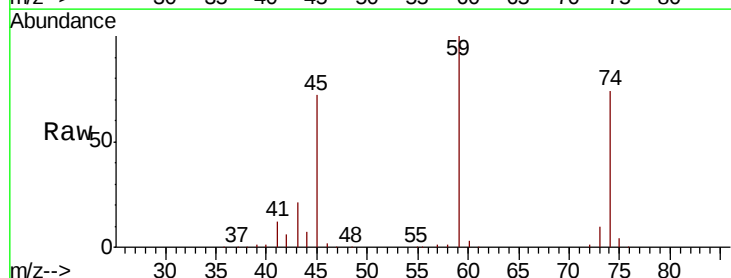
MMDadoda
 11/6/2018 9:59:58 AM

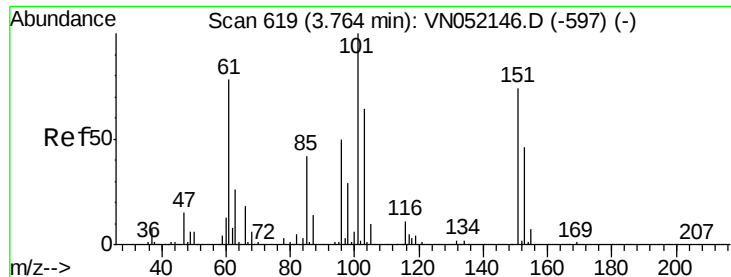


#8

Diethyl Ether
 Concen: 97.622 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.2	49.1	147.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 99.397 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

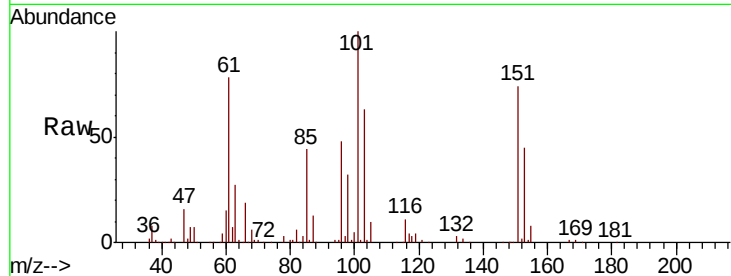
ClientSampleId :

VSTDIC100

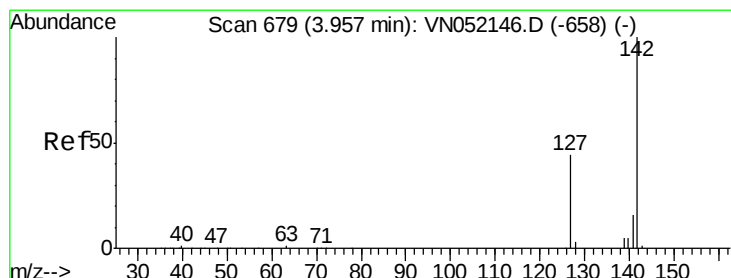
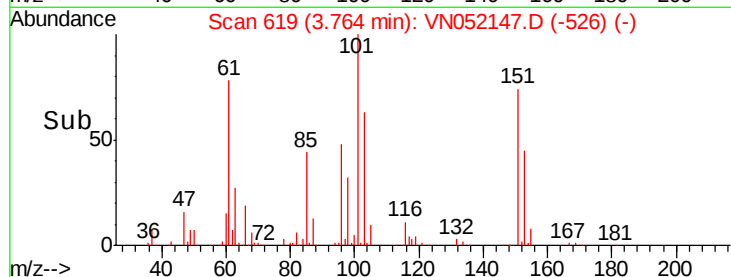
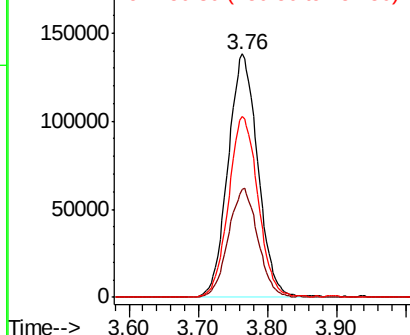
Tot Ion:	101	Resp:	414850
Ion Ratio	Lower	Upper	
101	100		
85	44.2	36.1	54.1
151	73.6	59.7	89.5

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VN
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 106.065 ug/l

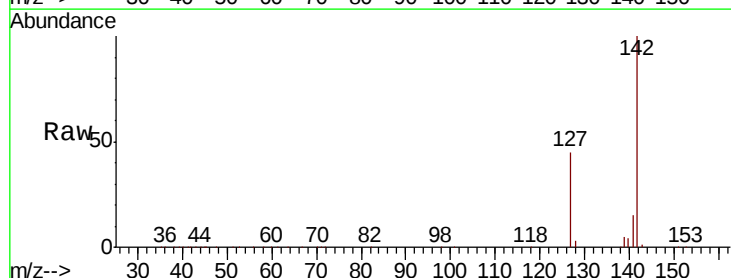
RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

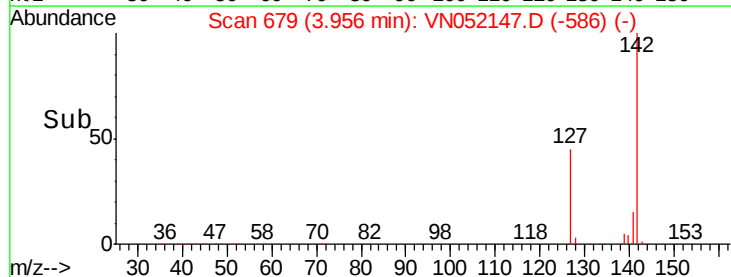
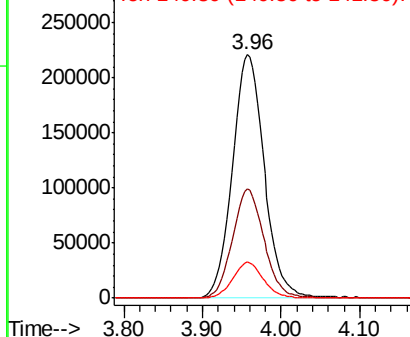
Lab File: VN052147.D

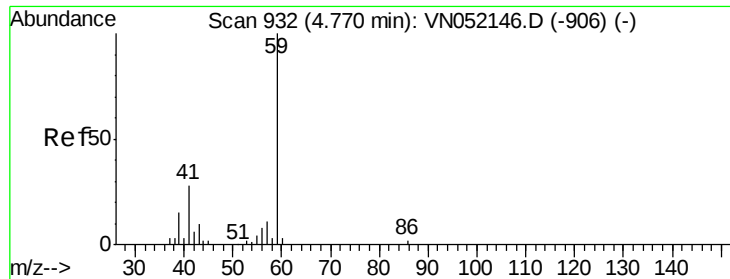
Acq: 5 Nov 2018 14:29

Tgt Ion:	142	Resp:	625010
Ion Ratio	Lower	Upper	
142	100		
127	44.4	36.0	54.0
141	14.2	11.8	17.6



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





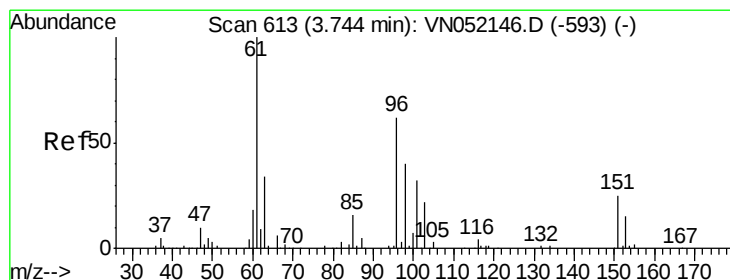
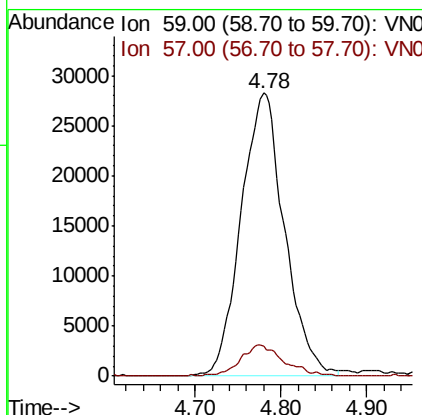
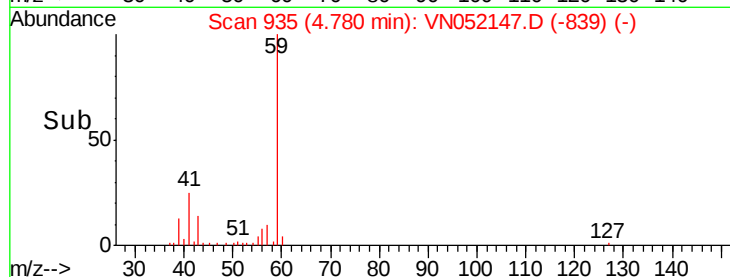
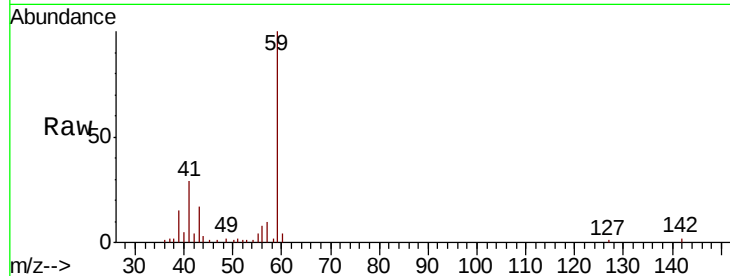
#11
Tert butyl alcohol
Concen: 450.590 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.01 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 59 Resp: 99166
Ion Ratio Lower Upper
59 100
57 10.7 5.7 8.5#

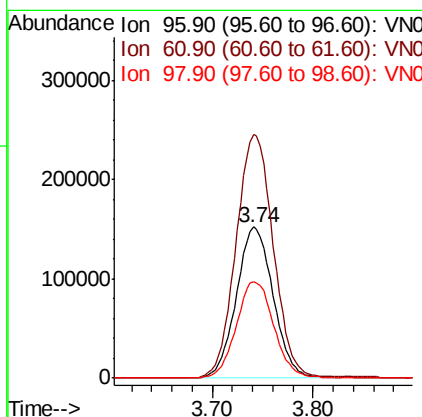
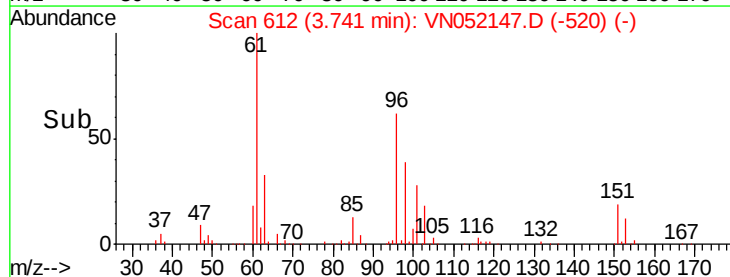
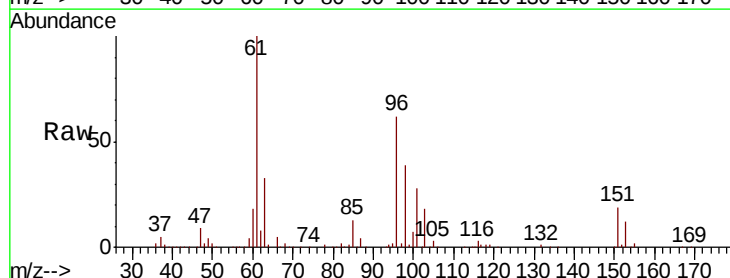
Manual Integrations
APPROVED

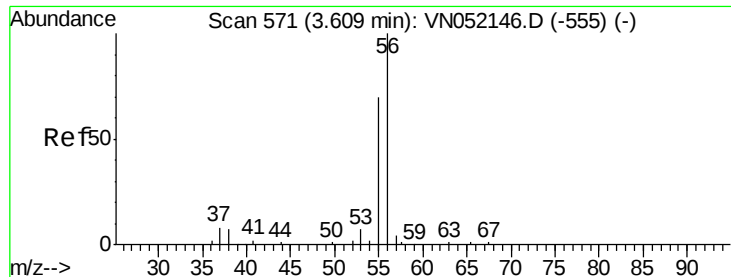
MMDadoda
11/6/2018 9:59:58 AM



#12
1,1-Dichloroethene
Concen: 98.152 ug/l
RT: 3.74 min Scan# 612
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion: 96 Resp: 385677
Ion Ratio Lower Upper
96 100
61 161.1 128.4 192.6
98 63.5 50.9 76.3





#13

Acrolein

Concen: 547.747 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 108378

Ion Ratio Lower Upper

56 100

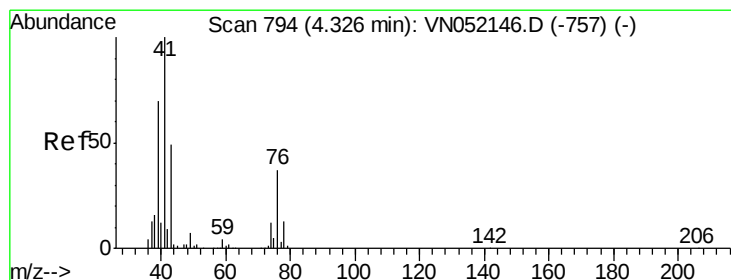
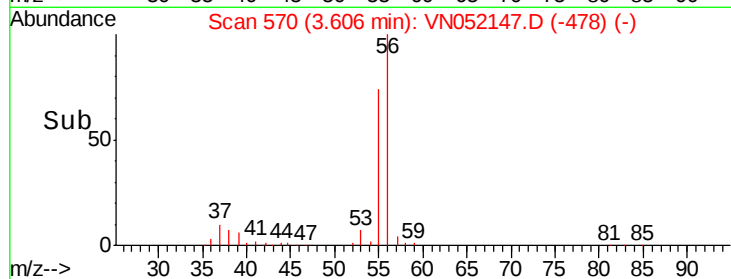
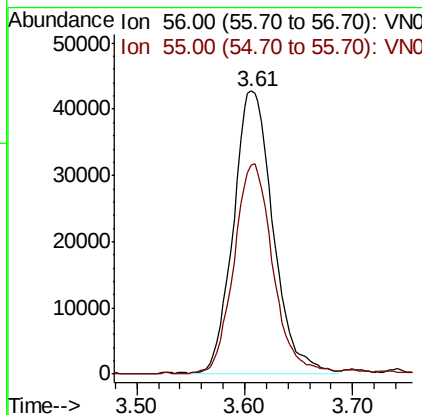
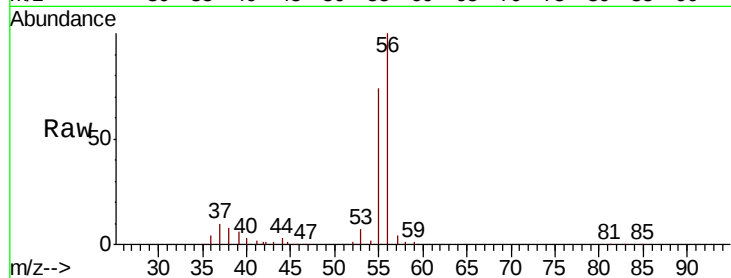
55 74.0 56.6 84.8

Manual Integrations

APPROVED

MMDadoda

11/6/2018 9:59:58 AM



#14

Allyl chloride

Concen: 98.587 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

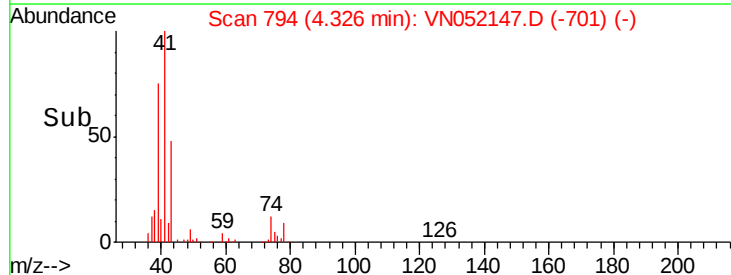
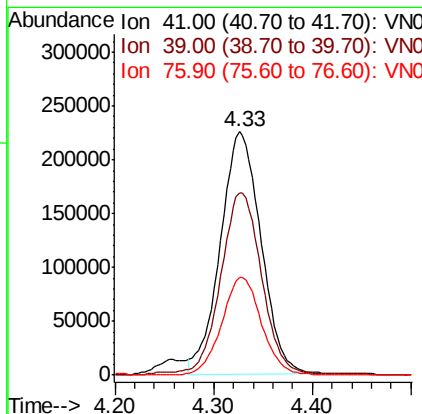
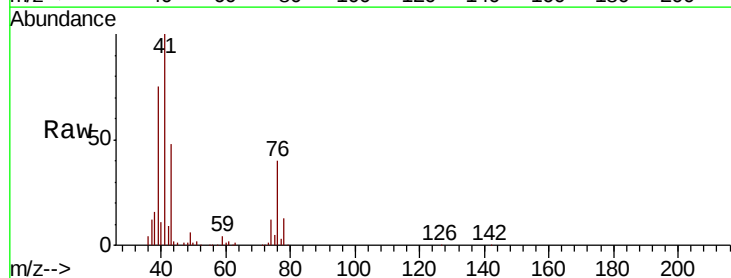
Tgt Ion: 41 Resp: 646551

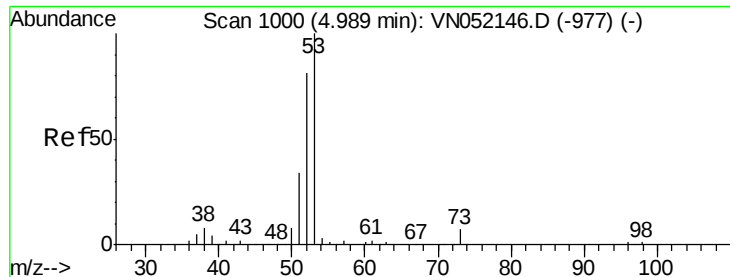
Ion Ratio Lower Upper

41 100

39 76.0 55.3 82.9

76 38.8 27.8 41.8





#15

Acrylonitrile

Concen: 487.716 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

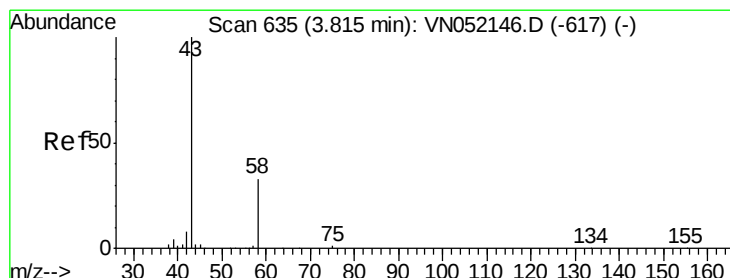
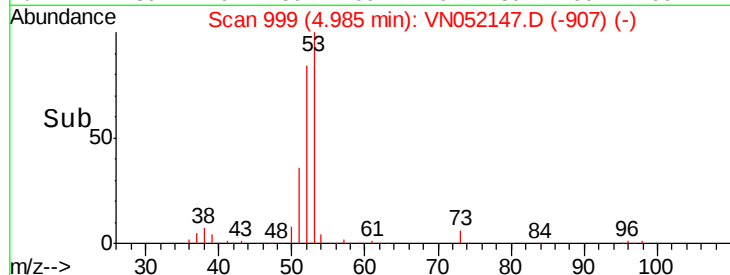
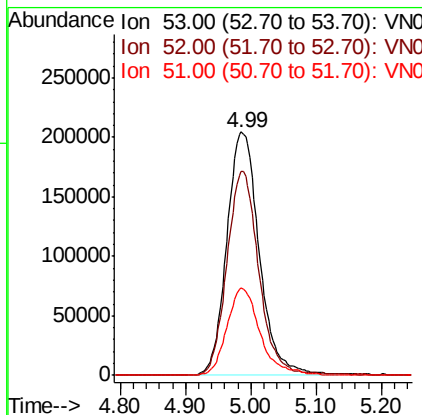
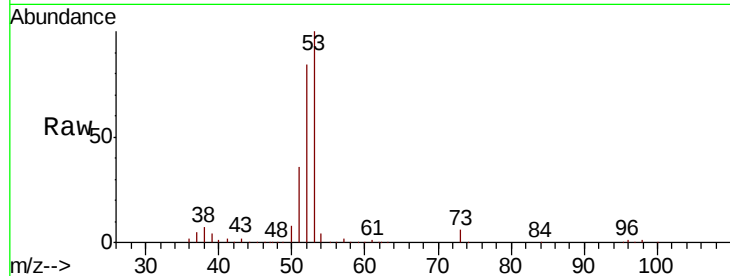
ClientSampleId :

VSTDIC100

Tot Ion:	53	Resp:	706126
Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.5	99.7
51	36.4	29.2	43.8

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



#16

Acetone

Concen: 451.884 ug/l

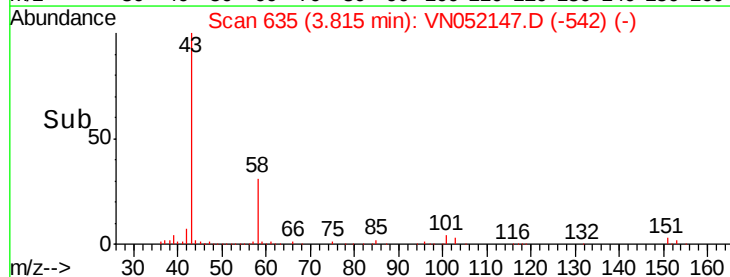
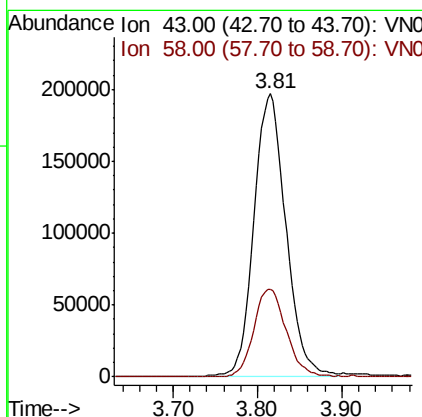
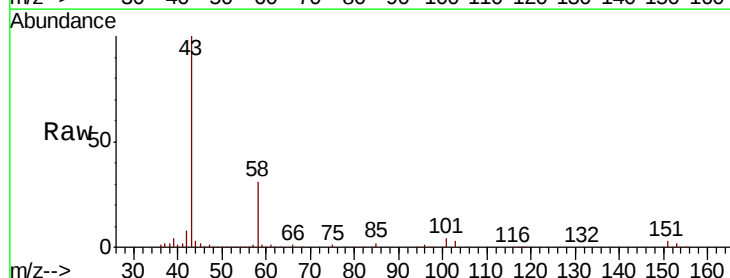
RT: 3.81 min Scan# 635

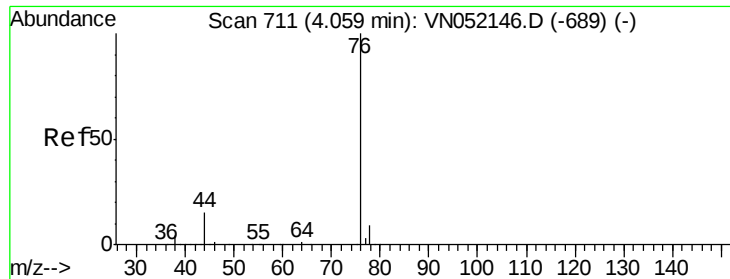
Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion:	43	Resp:	517818
Ion	Ratio	Lower	Upper
43	100		
58	30.9	26.2	39.2





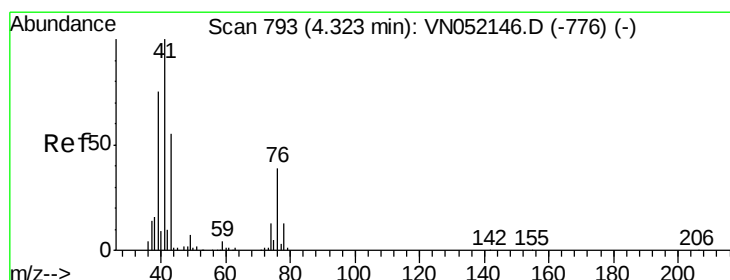
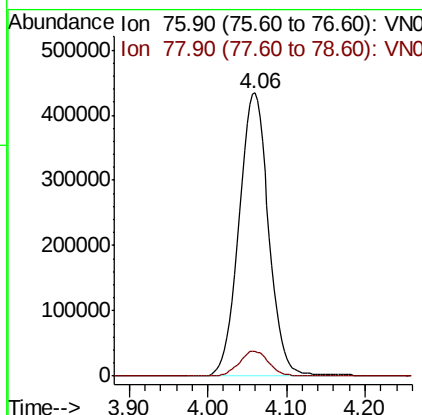
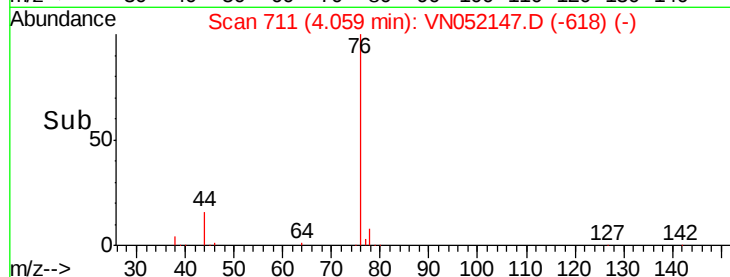
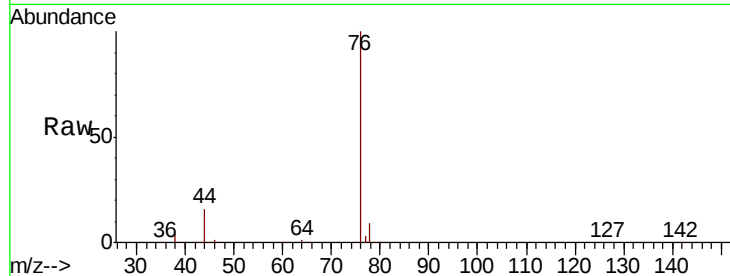
#17
Carbon Disulfide
Concen: 102.609 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 76 Resp: 1150557
Ion Ratio Lower Upper
76 100
78 8.8 7.0 10.6

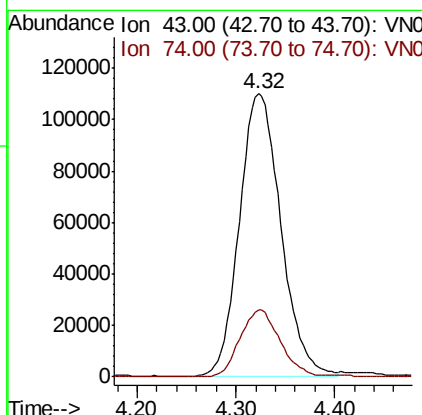
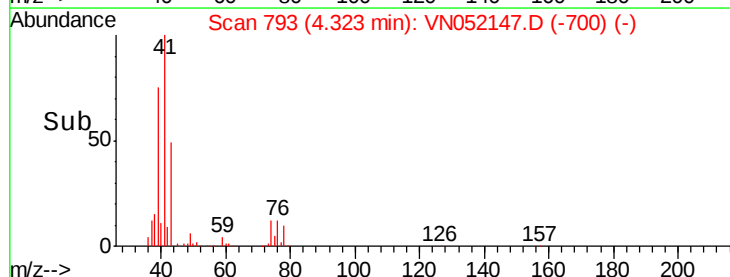
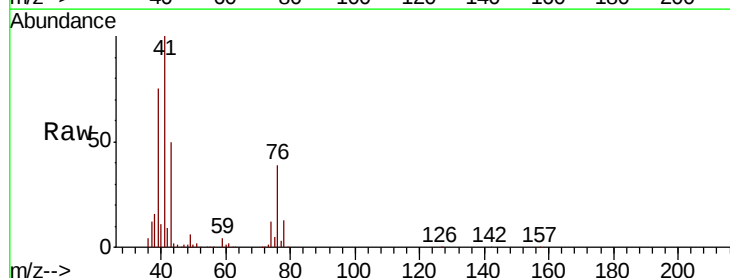
Manual Integrations
APPROVED

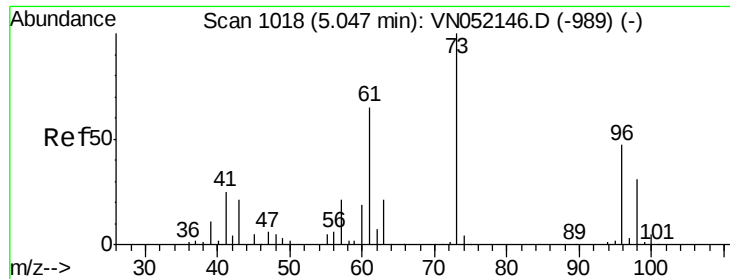
MMDadoda
11/6/2018 9:59:58 AM



#18
Methyl Acetate
Concen: 89.919 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion: 43 Resp: 318881
Ion Ratio Lower Upper
43 100
74 23.5 19.3 28.9





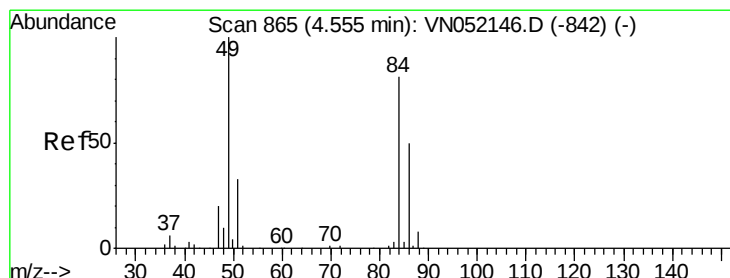
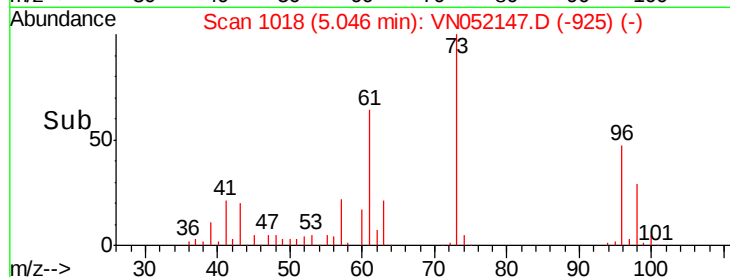
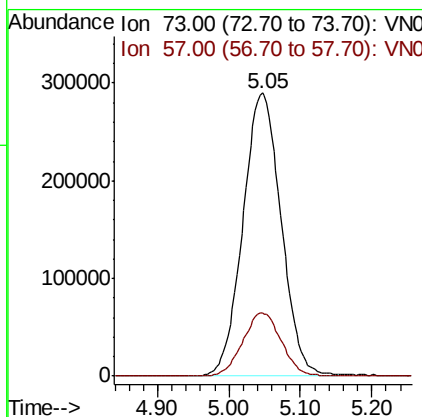
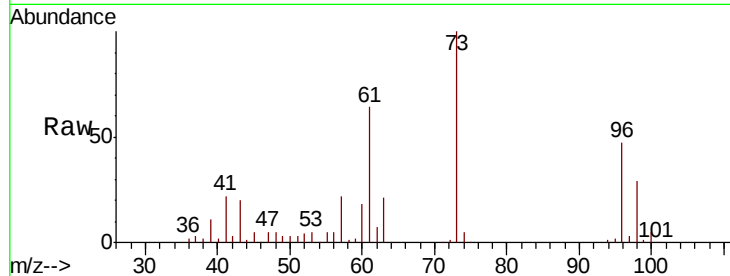
#19
Methvl tert-butvl Ether
Concen: 99.503 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 1077046
Ion Ratio Lower Upper
73 100
57 22.2 16.8 25.2

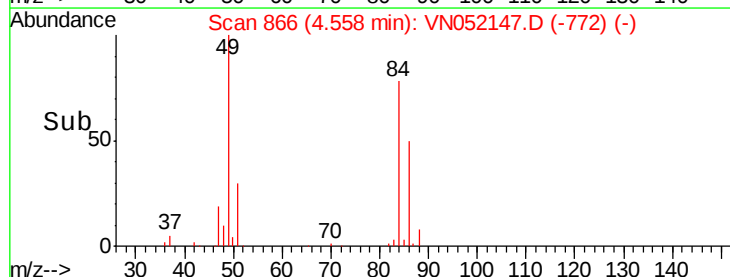
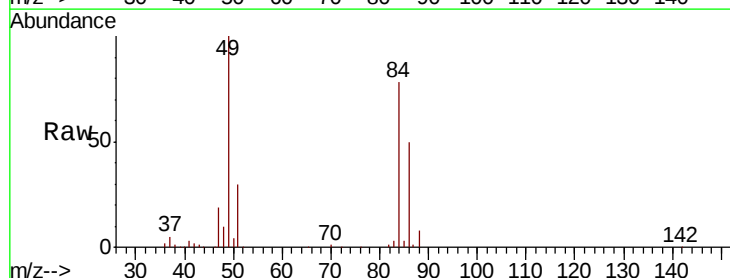
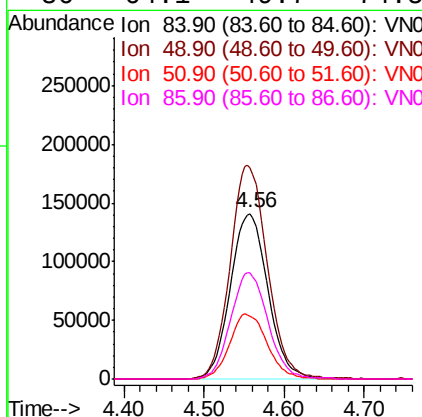
Manual Integrations
APPROVED

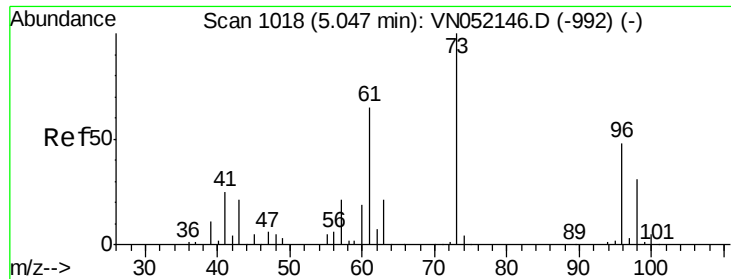
MMDadoda
11/6/2018 9:59:58 AM



#20
Methylene Chloride
Concen: 94.449 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion: 84 Resp: 449703
Ion Ratio Lower Upper
84 100
49 127.5 98.4 147.6
51 38.1 32.5 48.7
86 64.1 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 105.633 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 96 Resp: 431648

Ion Ratio Lower Upper

96 100

61 135.6 109.6 164.4

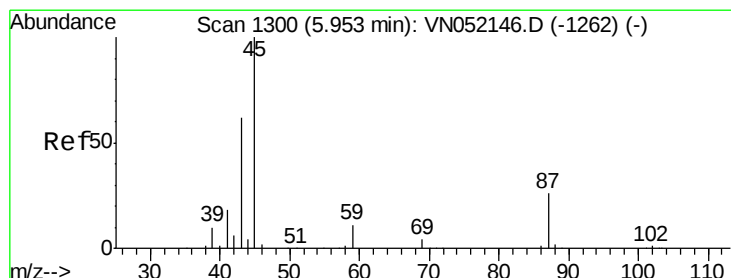
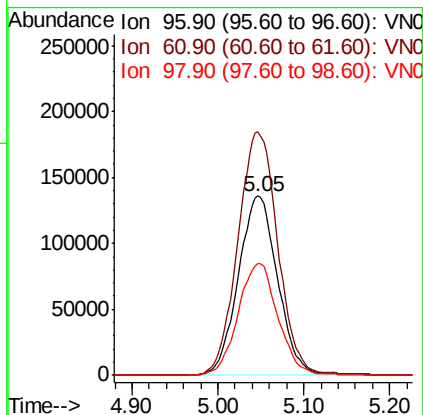
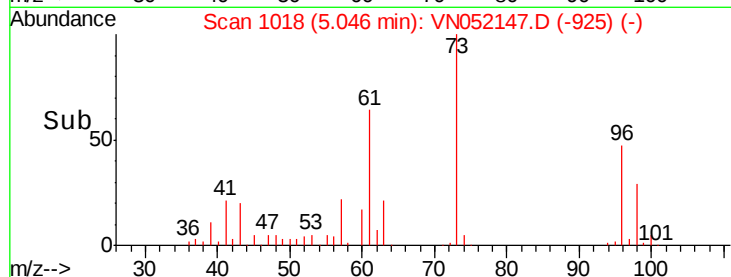
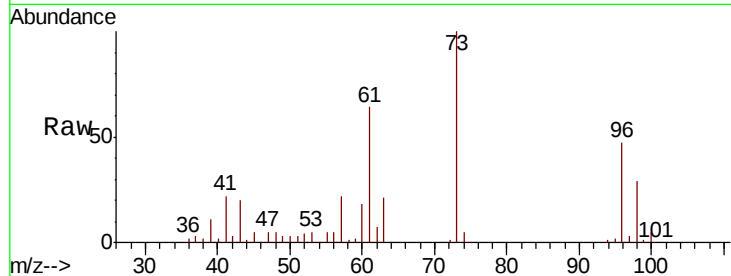
98 62.2 52.0 78.0

Manual Integrations

APPROVED

MMDadoda

11/6/2018 9:59:58 AM



#22

Diisopropyl ether

Concen: 98.819 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion: 45 Resp: 1428702

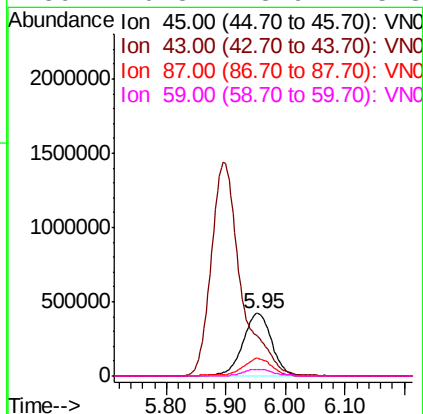
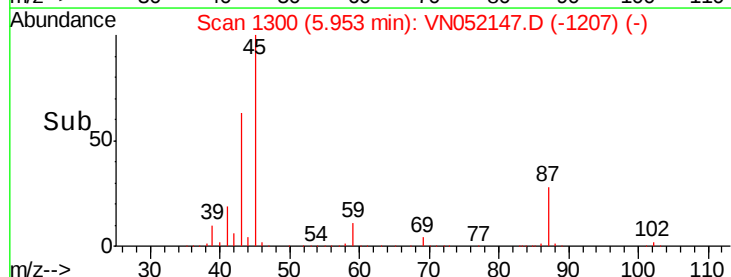
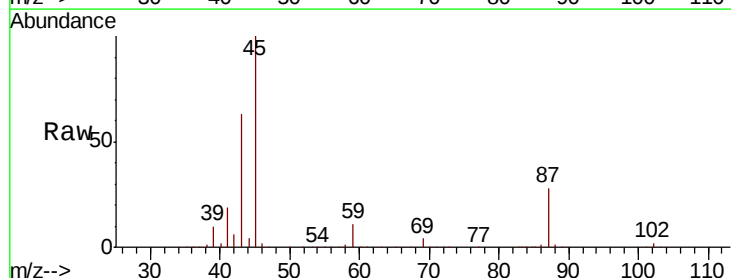
Ion Ratio Lower Upper

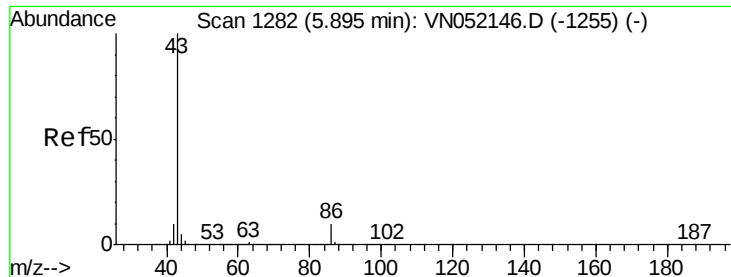
45 100

43 62.1 49.8 74.6

87 27.9 21.1 31.7

59 10.8 8.9 13.3





#23

Vinyl Acetate

Concen: 524.318 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 43 Resp: 4986000

Ion Ratio Lower Upper

43 100

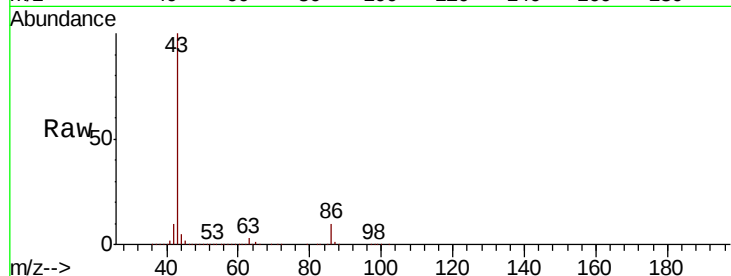
86 9.9 7.9 11.9

Manual Integrations

APPROVED

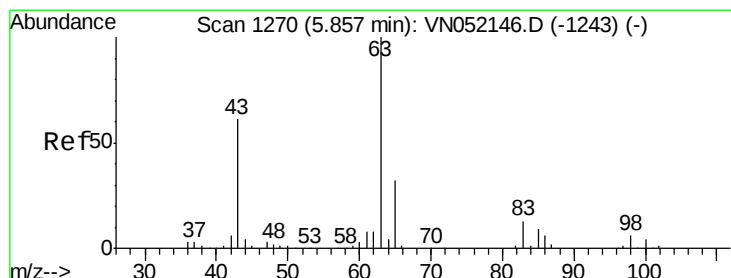
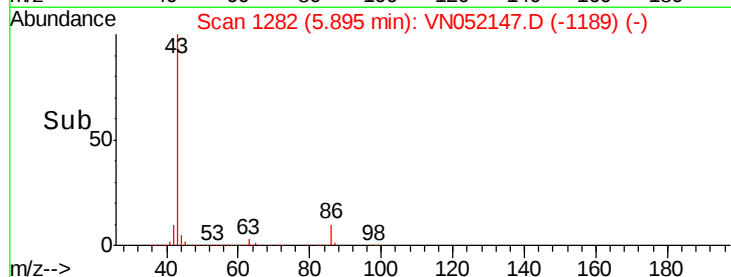
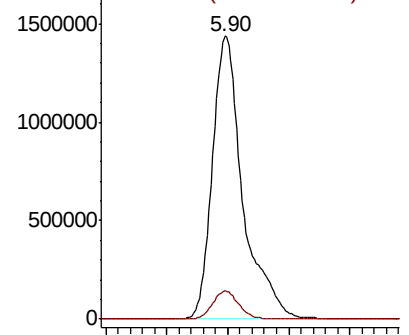
MMDadoda

11/6/2018 9:59:58 AM



Abundance Ion 43.00 (42.70 to 43.70): VN052146.D (-1255) (-)

Ion 86.00 (85.70 to 86.70): VN052146.D (-1255) (-)



#24

1,1-Dichloroethane

Concen: 99.345 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

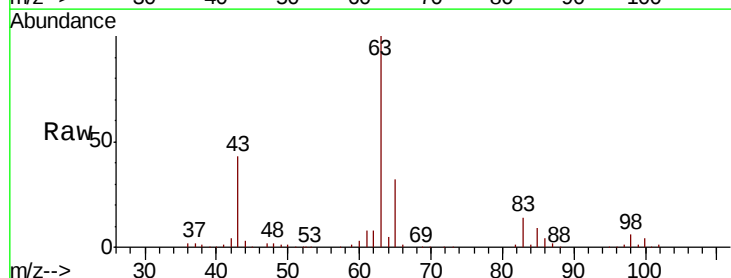
Tgt Ion: 63 Resp: 812510

Ion Ratio Lower Upper

63 100

98 6.4 3.1 9.4

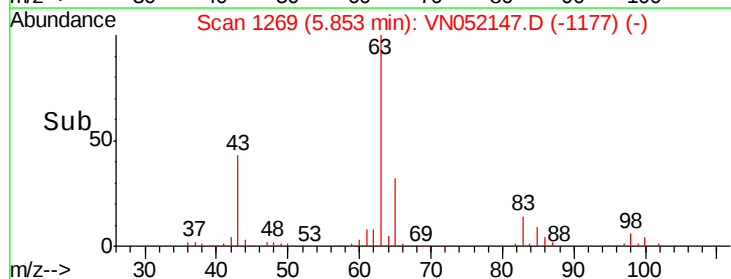
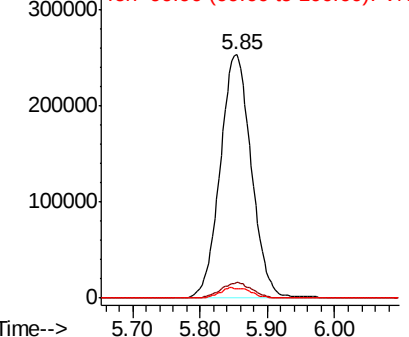
100 4.1 2.1 6.2

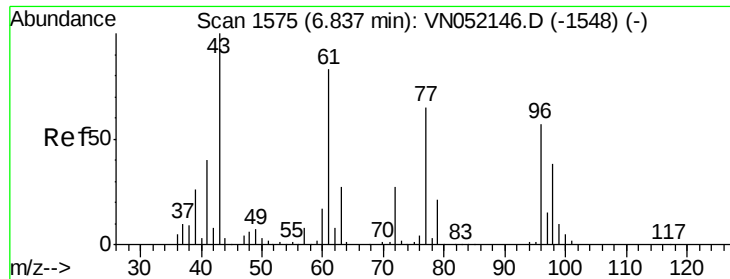


Abundance Ion 62.90 (62.60 to 63.60): VN052146.D (-1243) (-)

Ion 97.90 (97.60 to 98.60): VN052146.D (-1243) (-)

Ion 99.90 (99.60 to 100.60): VN052146.D (-1243) (-)





#25

2-Butanone

Concen: 458.263 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 814280

Ion Ratio Lower Upper

43 100

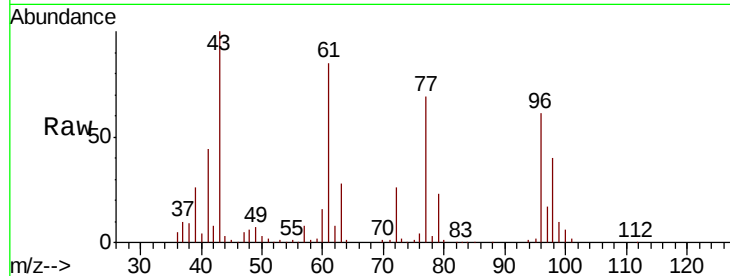
72 26.3 21.4 32.2

Manual Integrations

APPROVED

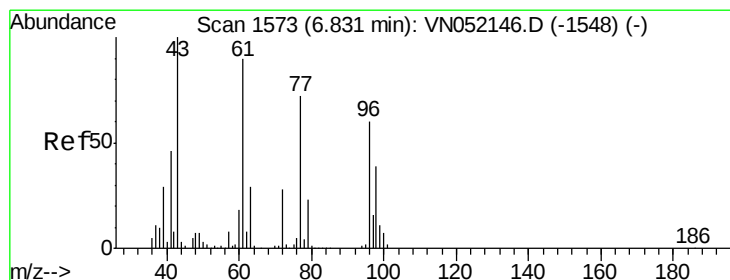
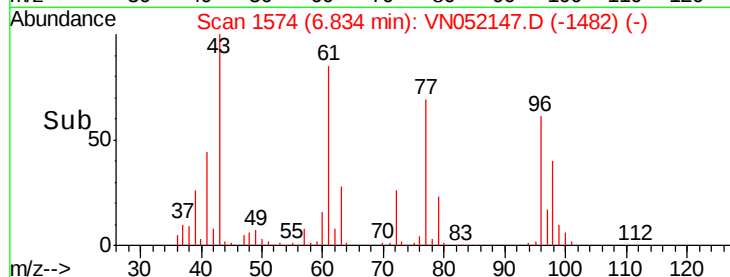
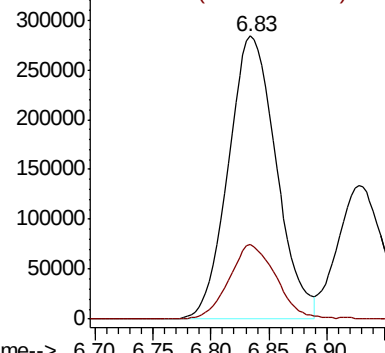
MMDadoda

11/6/2018 9:59:58 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 101.634 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN052147.D

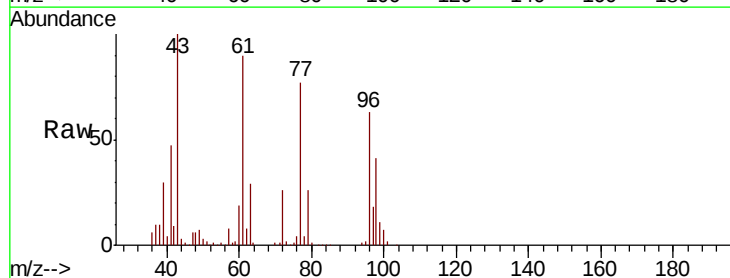
Acq: 5 Nov 2018 14:29

Tgt Ion: 77 Resp: 650142

Ion Ratio Lower Upper

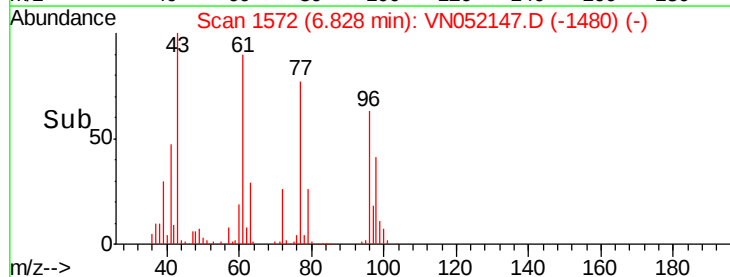
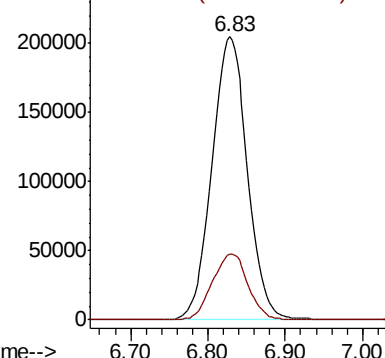
77 100

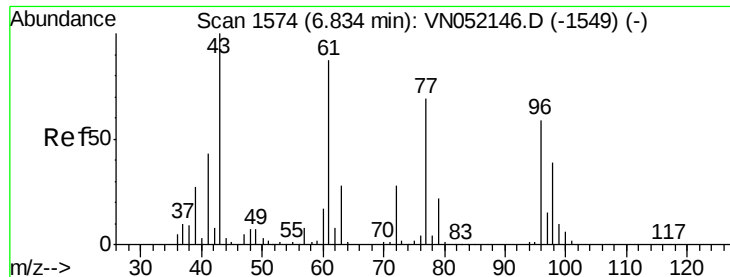
97 23.5 11.4 34.1



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 101.859 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

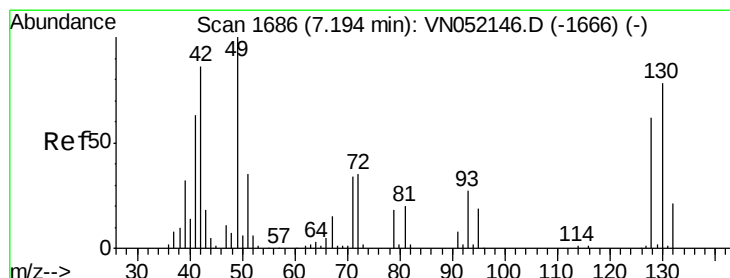
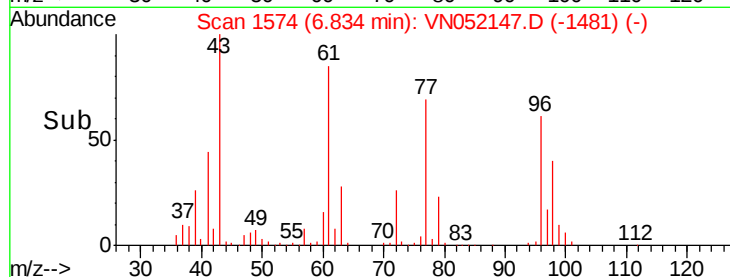
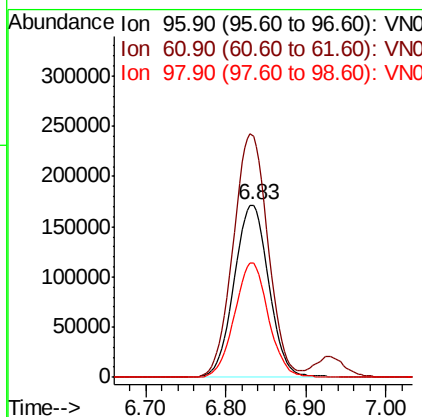
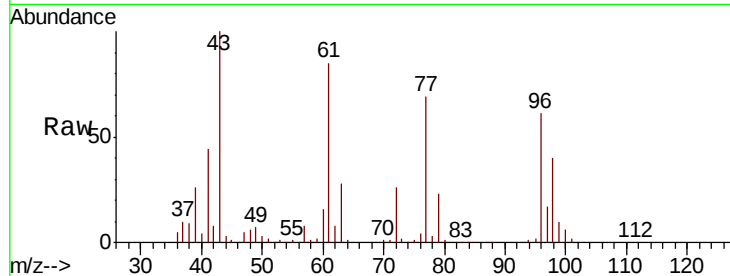
ClientSampleId :

VSTDIC100

Tot Ion:	96	Resp:	504930
Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	291.8
98	64.6	0.0	130.0

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



#28

Bromochloromethane

Concen: 98.734 ug/l

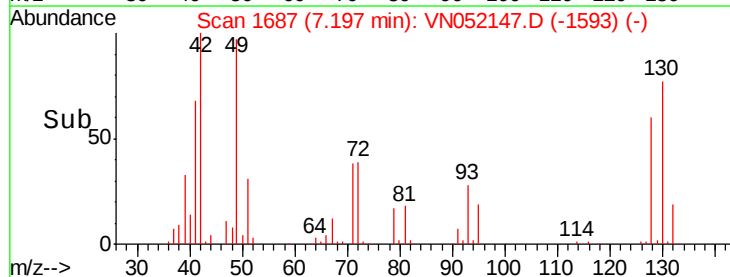
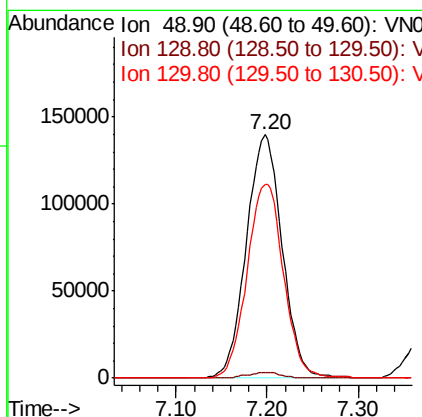
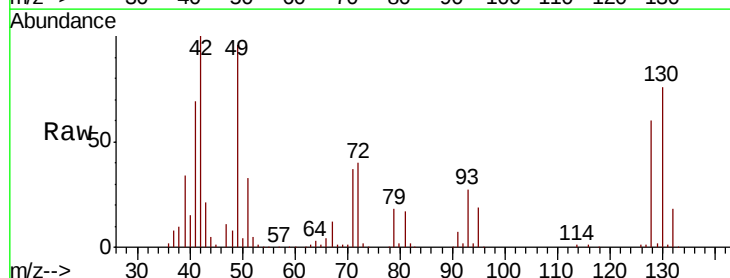
RT: 7.20 min Scan# 1687

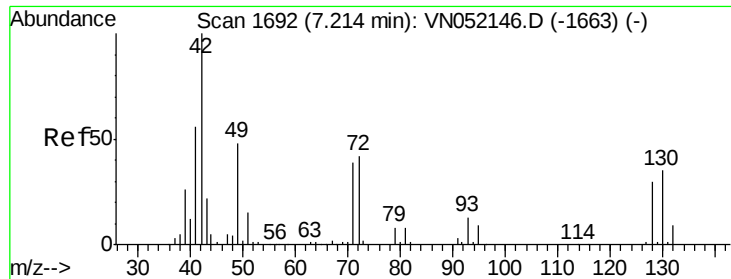
Delta R.T. 0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion:	49	Resp:	382295
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	80.8	59.8	89.6





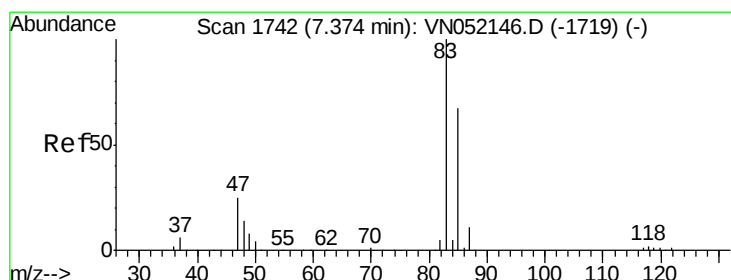
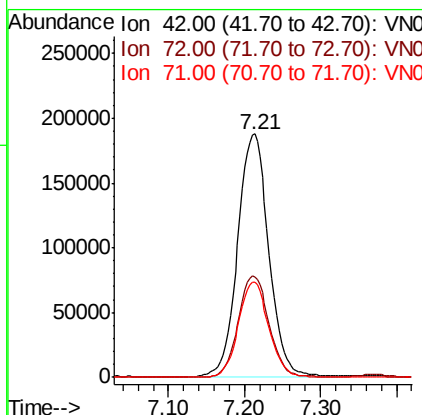
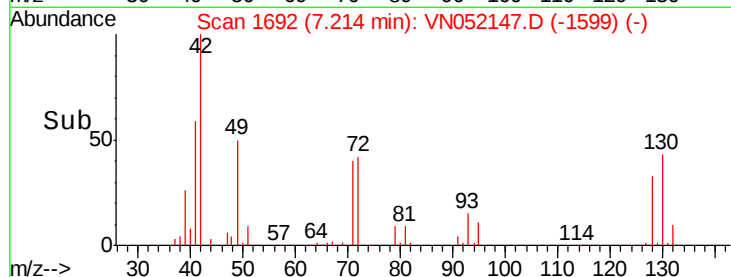
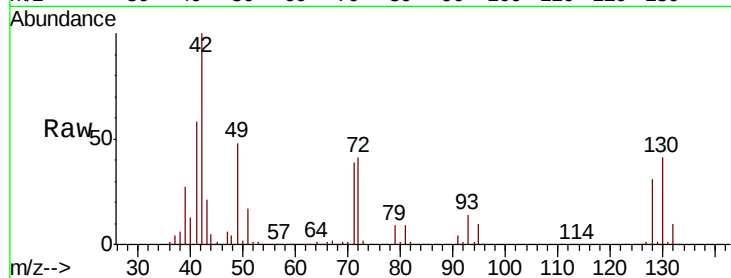
#29
Tetrahydrofuran
Concen: 485.211 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	32.3	48.5
71	38.3	31.0	46.6

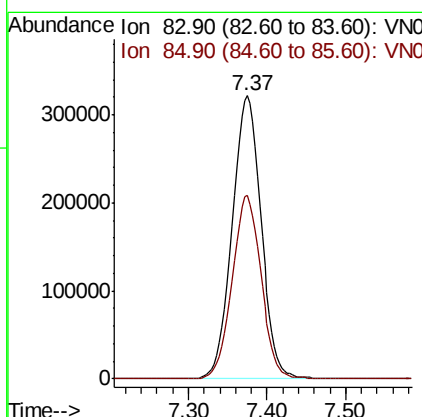
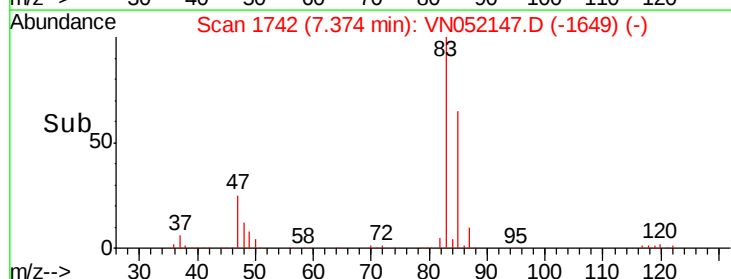
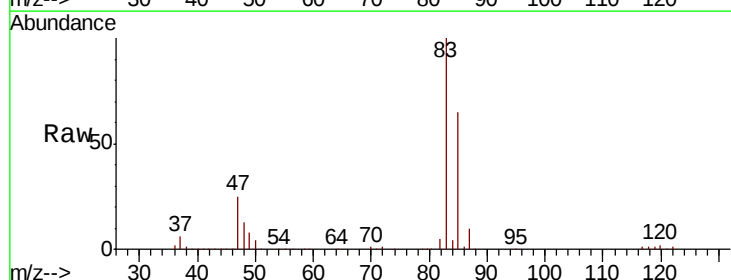
Manual Integrations
APPROVED

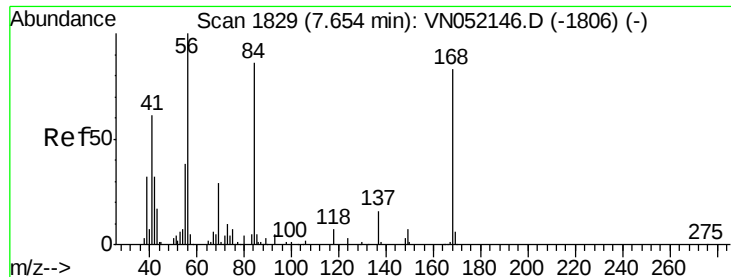
MMDadoda
11/6/2018 9:59:58 AM



#30
Chloroform
Concen: 101.559 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	53.7	80.5





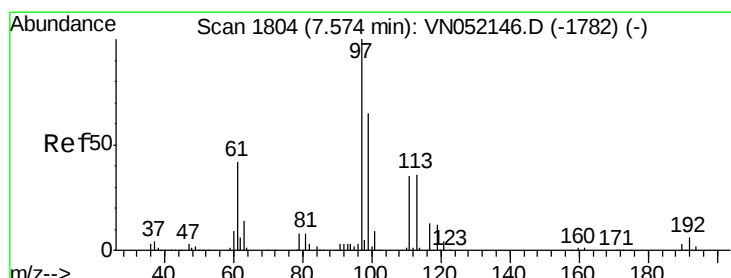
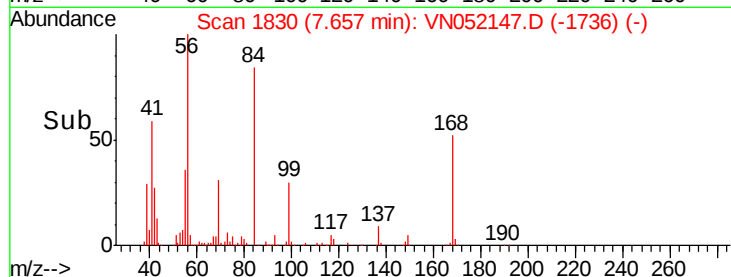
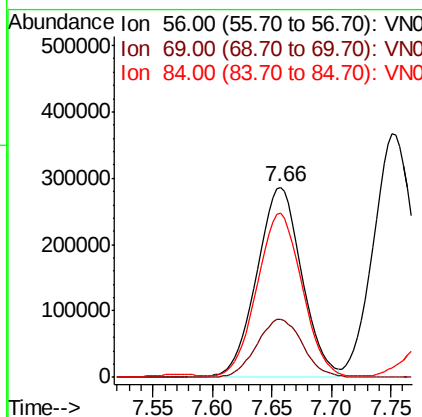
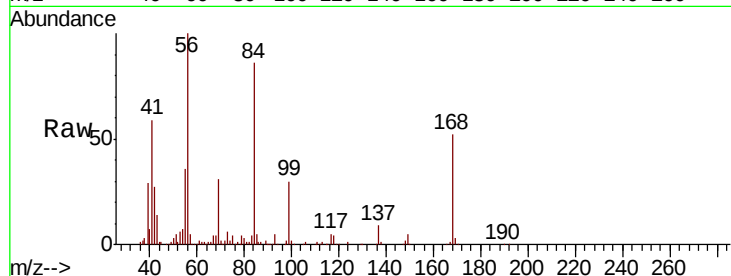
#31
Cyclohexane
Concen: 81.341 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.8	23.5	35.3
84	84.9	68.7	103.1

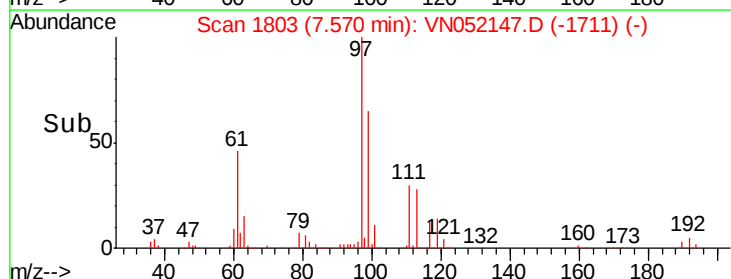
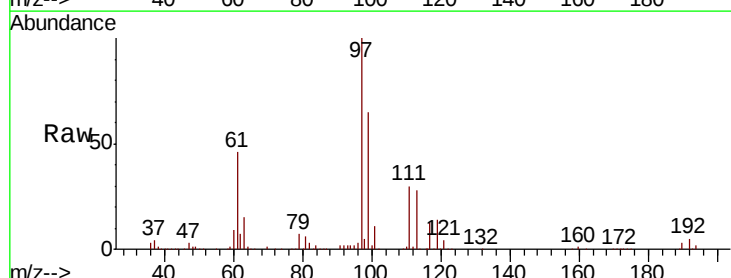
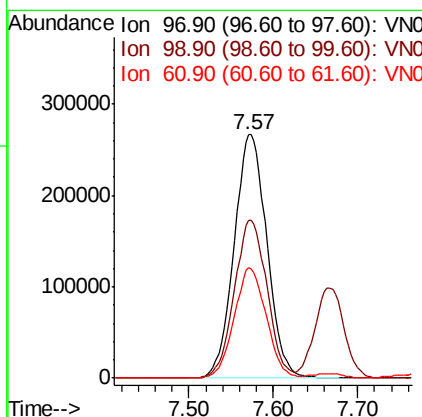
Manual Integrations
APPROVED

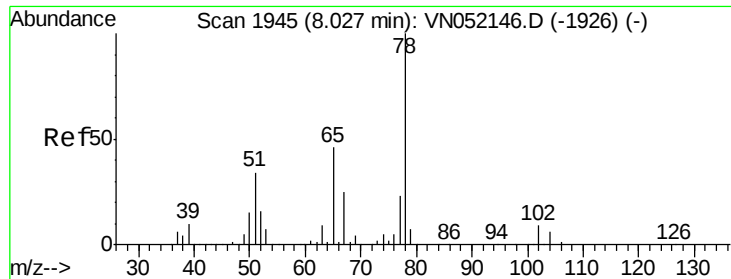
MMDadoda
11/6/2018 9:59:58 AM



#32
1,1,1-Trichloroethane
Concen: 99.797 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.6	77.4
61	44.4	35.1	52.7





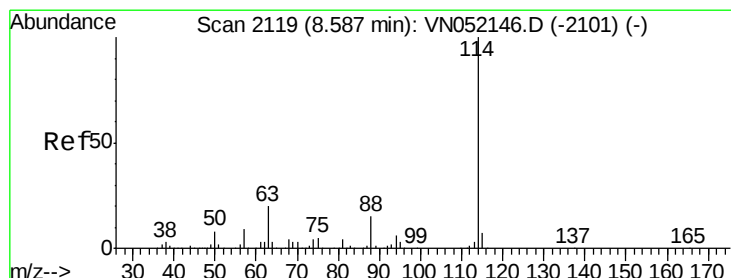
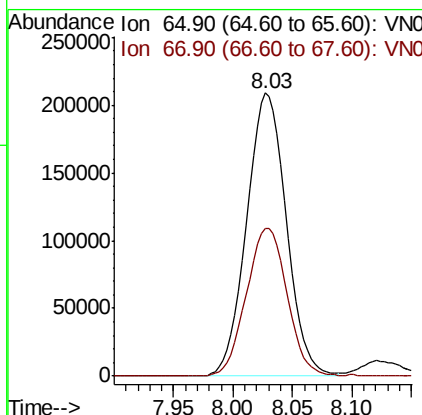
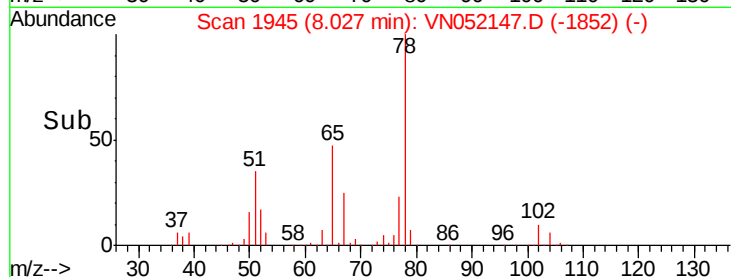
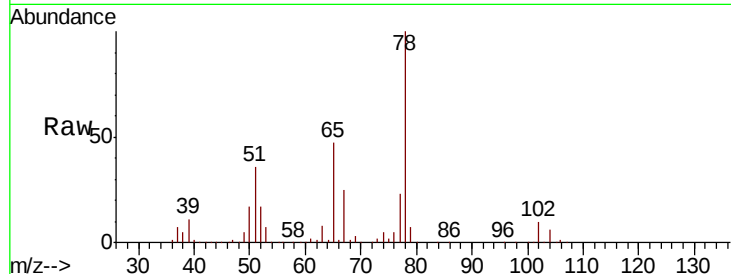
#33
 1,2-Dichloroethane-d4
 Concen: 99.797 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	482820		
67	53.7	0.0	107.6	

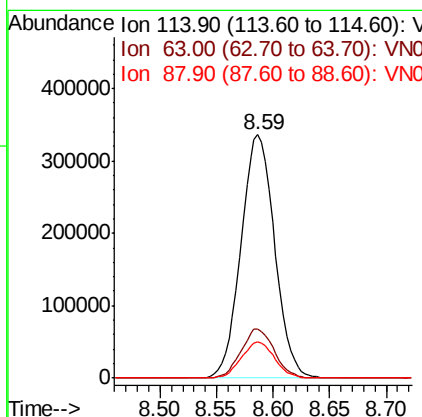
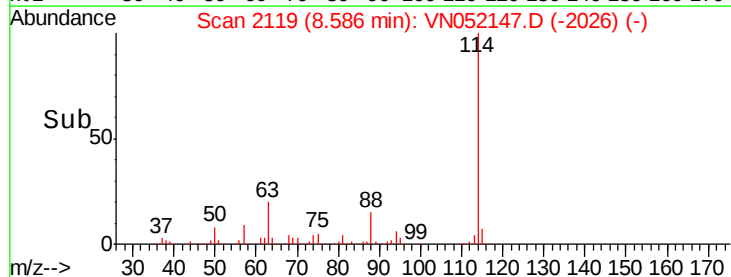
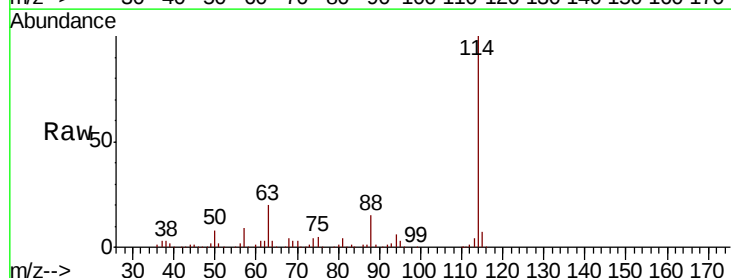
Manual Integrations
 APPROVED

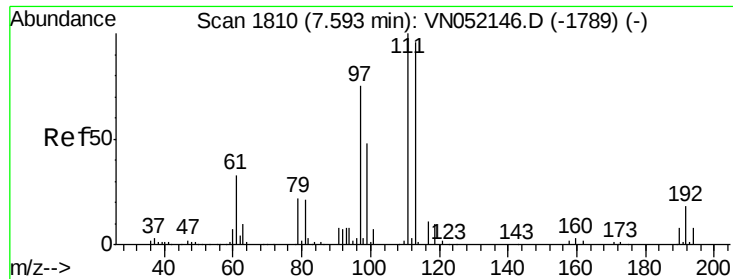
MMDadoda
 11/6/2018 9:59:58 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	696511		
63	20.2	0.0	40.0	
88	15.0	0.0	31.0	





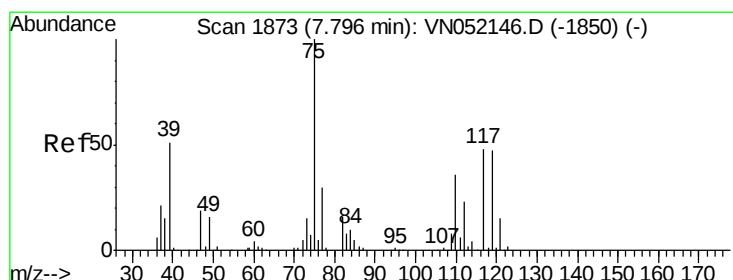
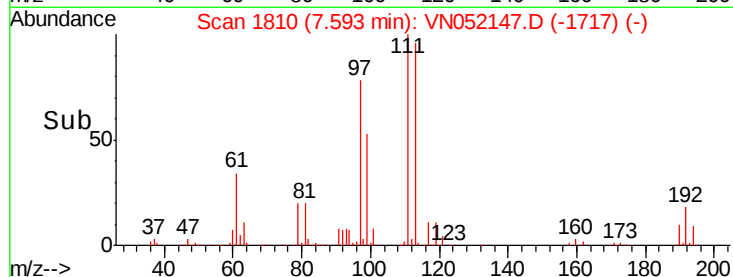
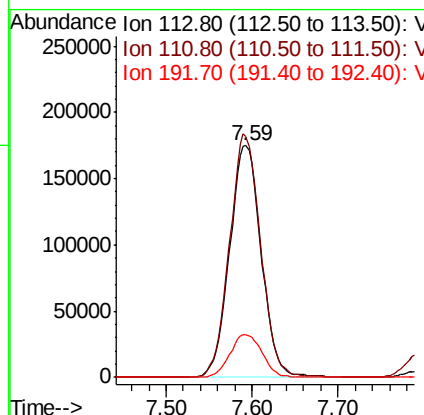
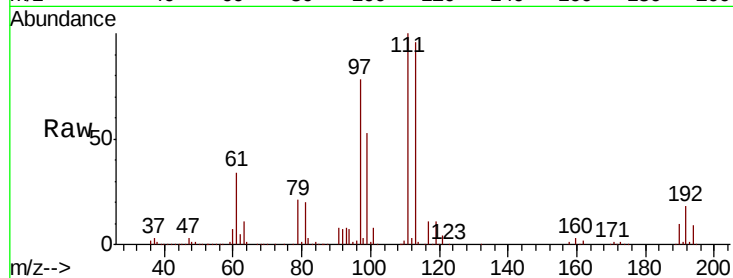
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.6	81.7	122.5	
192	18.8	14.2	21.4	

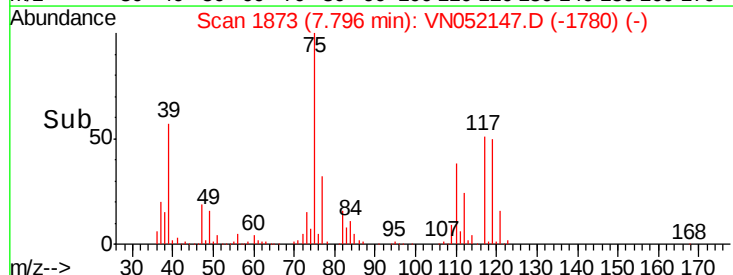
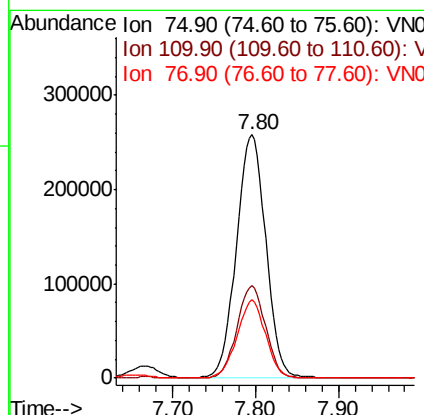
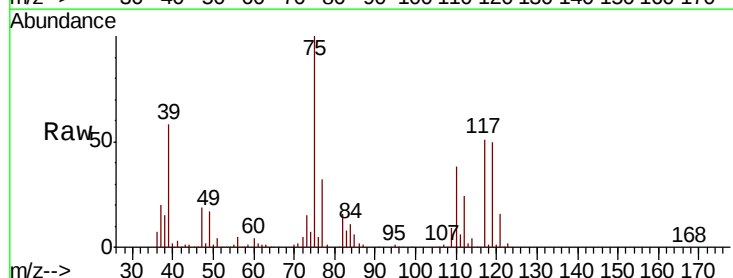
Manual Integrations
APPROVED

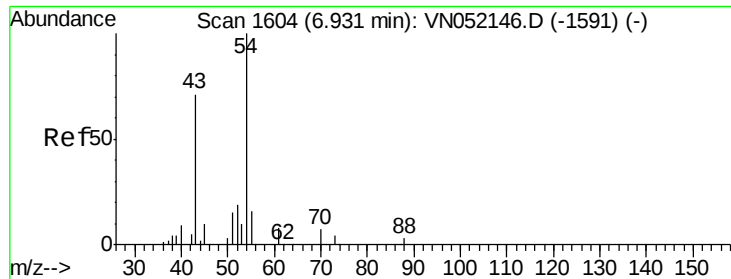
MMDadoda
11/6/2018 9:59:58 AM



#36
1,1-Dichloropropene
Concen: 103.331 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.0	17.8	53.5	
77	31.0	24.0	36.0	





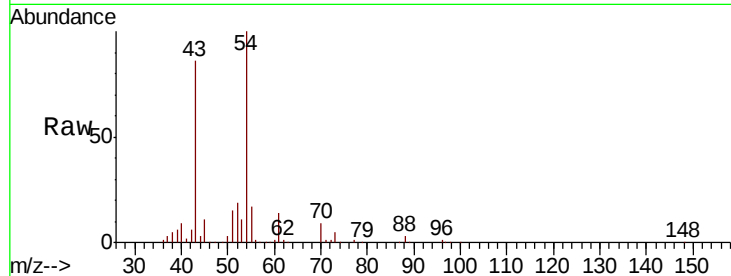
#37
Ethyl Acetate
Concen: 97.078 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

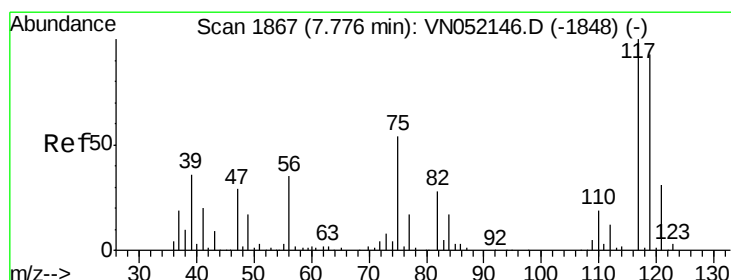
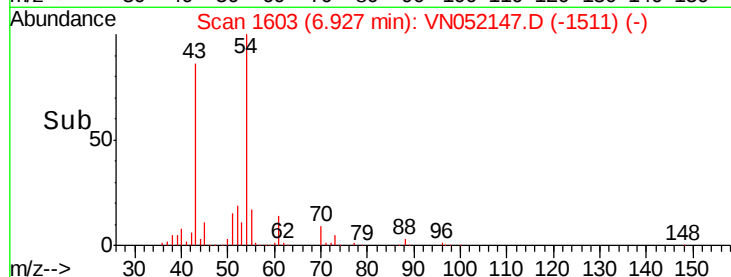
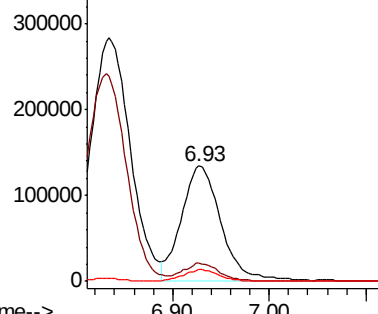
Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	9.4	14.2
70	9.1	7.6	11.4

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM

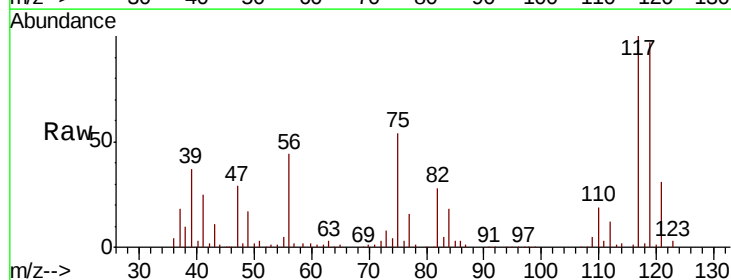


Abundance Ion 43.00 (42.70 to 43.70): VN052147.D (-1591) (-)
Ion 60.90 (60.60 to 61.60): VN052147.D (-1591) (-)
Ion 70.00 (69.70 to 70.70): VN052147.D (-1591) (-)

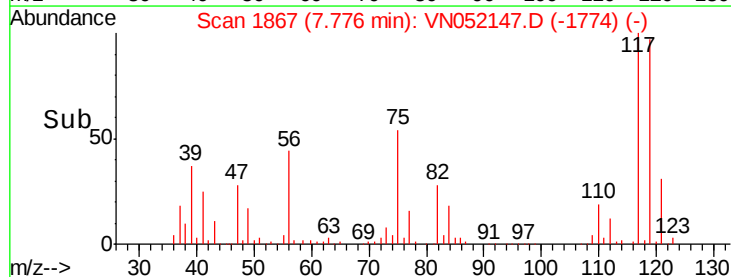
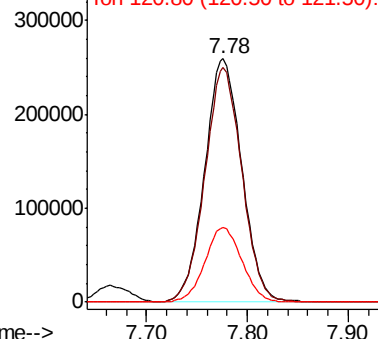


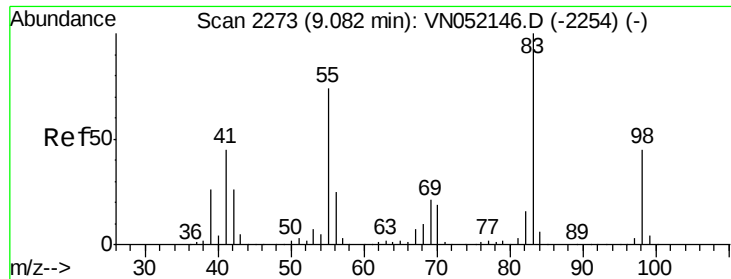
#38
Carbon Tetrachloride
Concen: 107.015 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	74.7	112.1
121	30.7	24.5	36.7



Abundance Ion 116.80 (116.50 to 117.50): VN052147.D (-1774) (-)
Ion 118.80 (118.50 to 119.50): VN052147.D (-1774) (-)
Ion 120.80 (120.50 to 121.50): VN052147.D (-1774) (-)





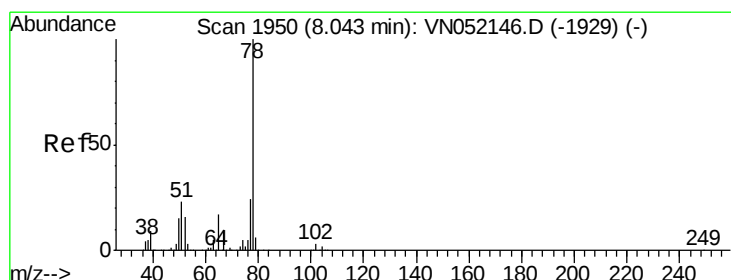
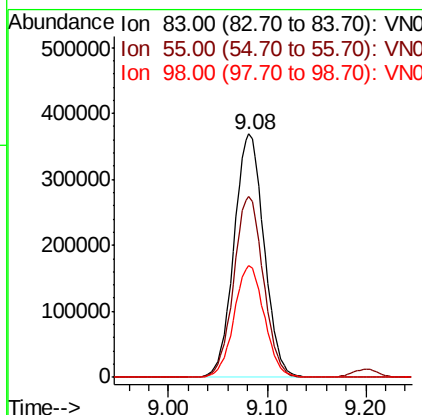
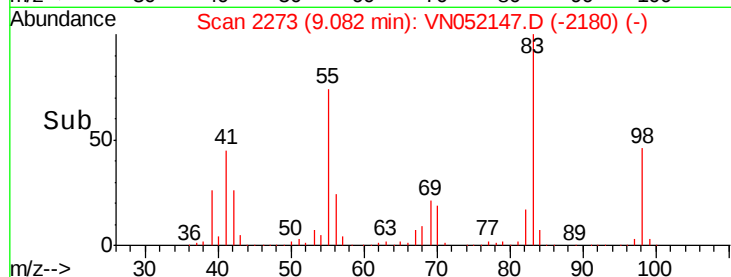
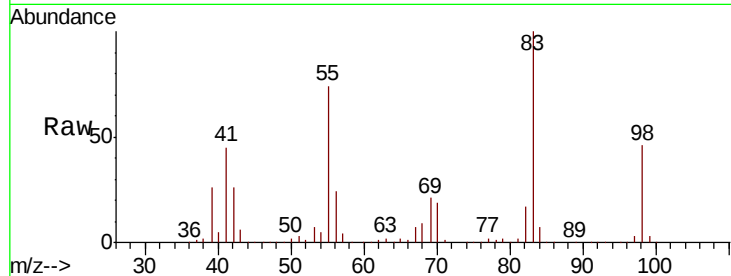
#39
Methvlcvclohexane
Concen: 106.668 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.4	59.4	89.2
98	45.7	36.3	54.5

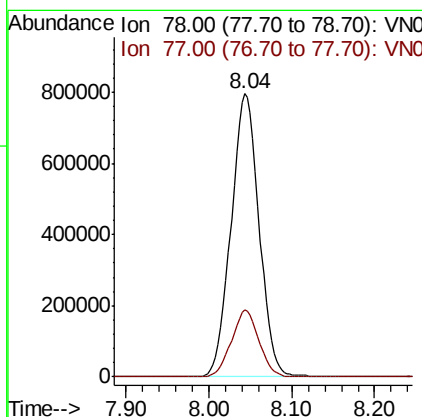
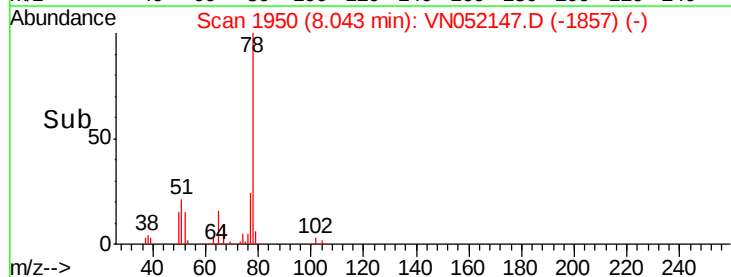
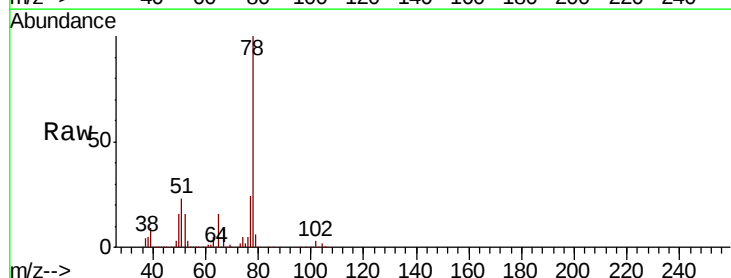
Manual Integrations
APPROVED

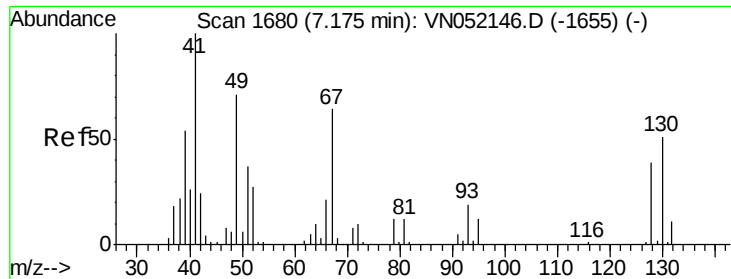
MMDadoda
11/6/2018 9:59:58 AM



#40
Benzene
Concen: 103.194 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.1	28.7





#41

Methacrylonitrile

Concen: 106.841 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 41 Resp: 213069
Ion Ratio Lower Upper

41 100

39 58.9 49.6 74.4

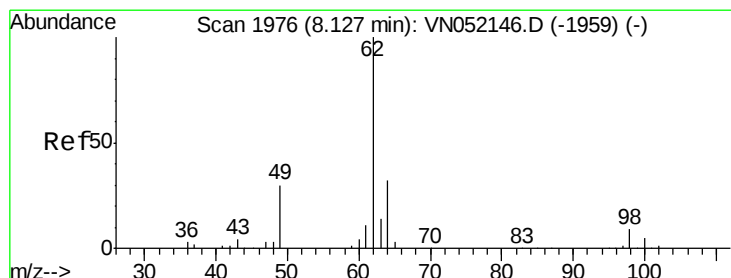
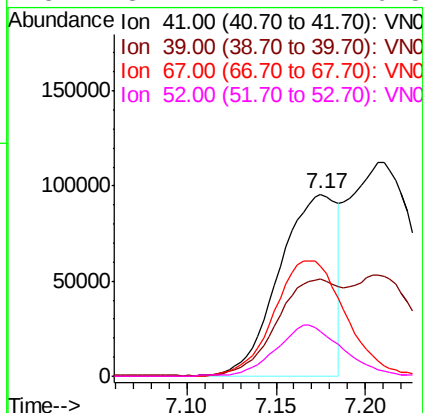
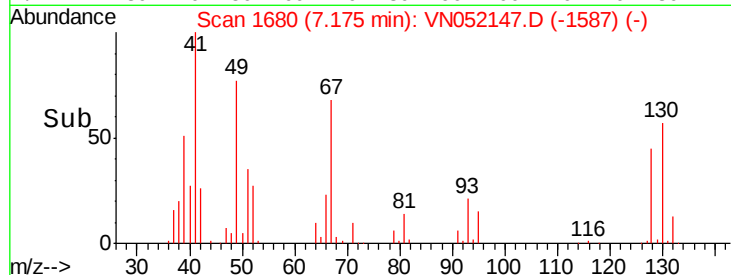
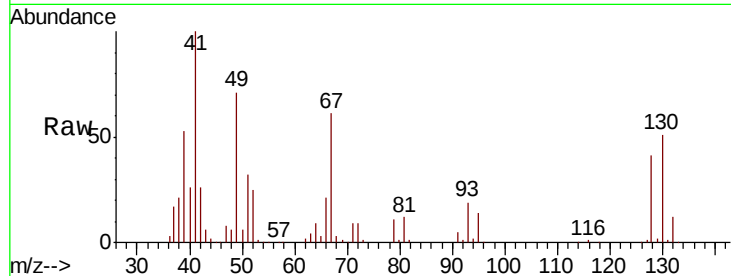
67 79.4 65.4 98.2

52 31.4 27.2 40.8

Manual Integrations
APPROVED

MMDadoda

11/6/2018 9:59:58 AM



#42

1,2-Dichloroethane

Concen: 100.764 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

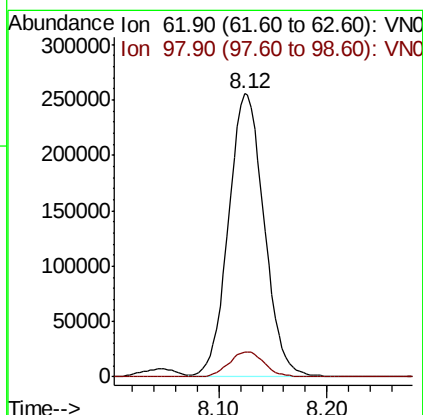
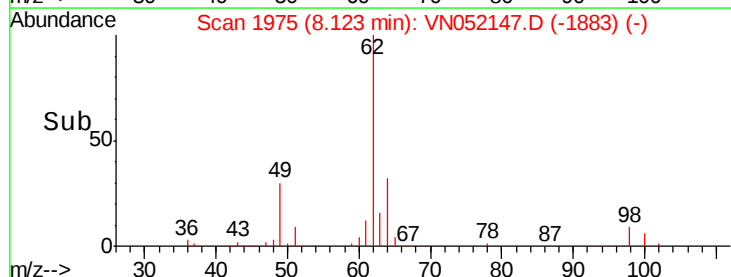
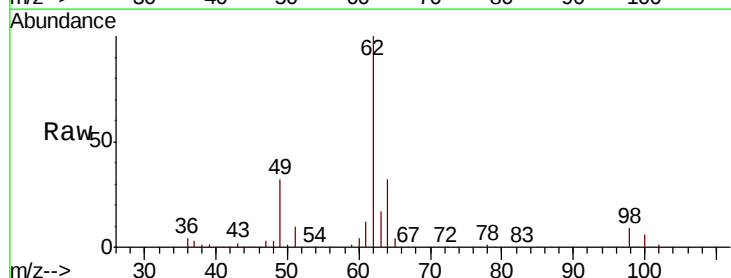
Lab File: VN052147.D

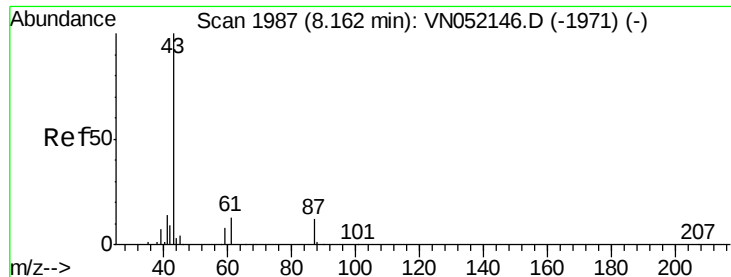
Acq: 5 Nov 2018 14:29

Tgt Ion: 62 Resp: 586730
Ion Ratio Lower Upper

62 100

98 8.9 0.0 18.2





#43

Isopropyl Acetate

Concen: 99.091 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

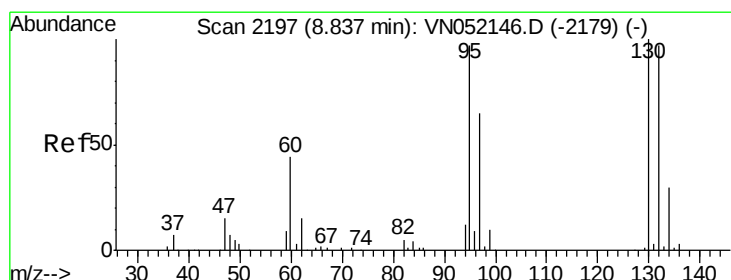
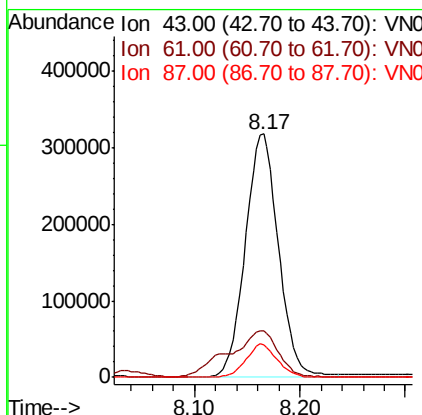
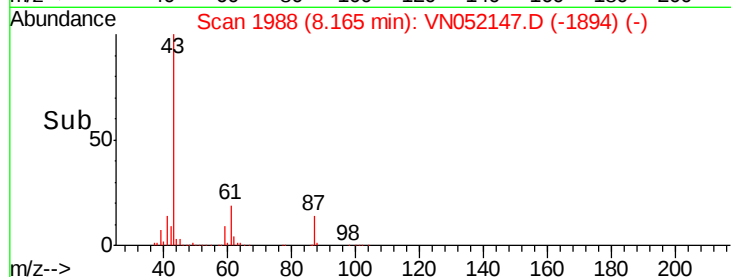
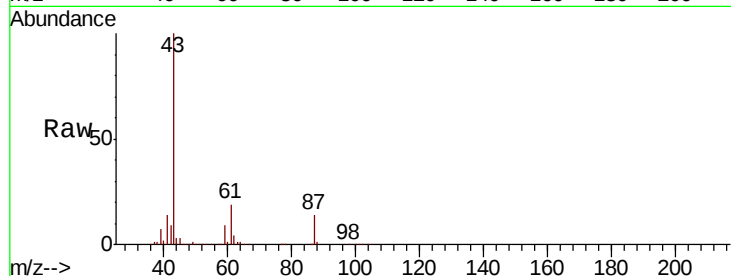
ClientSampleId :

VSTDIC100

Tot Ion:	43	Resp:	696646
Ion	Ratio	Lower	Upper
43	100		
61	19.3	21.5	32.3#
87	13.1	10.2	15.2

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



#44

Trichloroethene

Concen: 105.986 ug/l

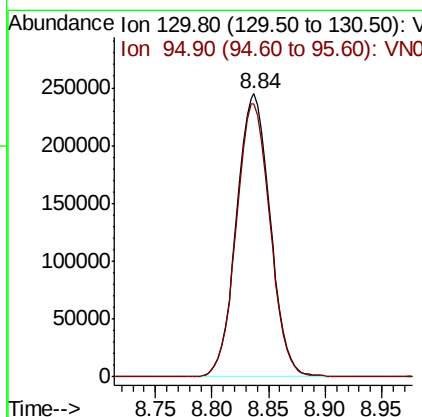
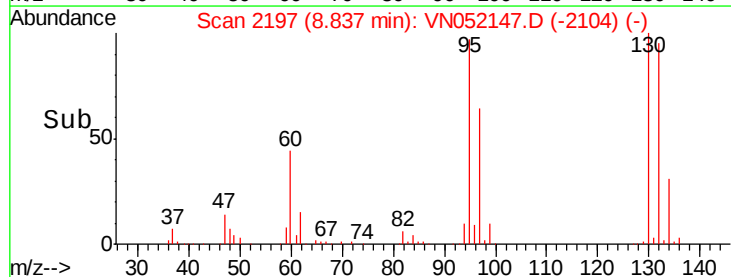
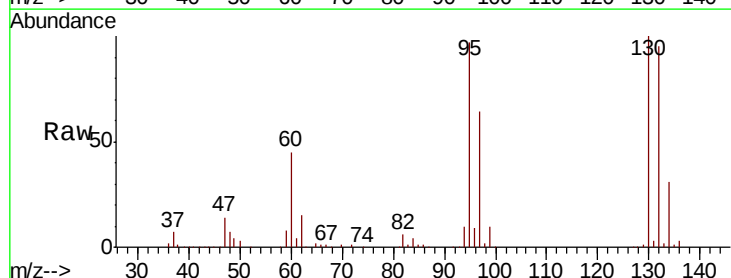
RT: 8.84 min Scan# 2197

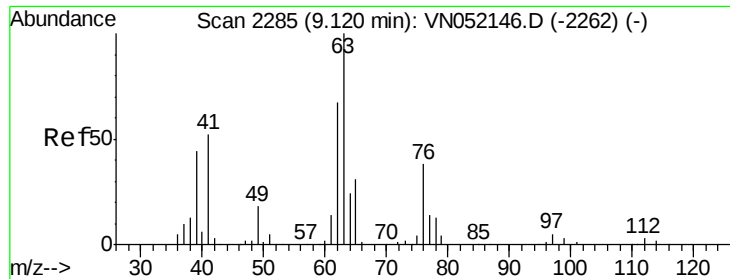
Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion:	130	Resp:	508260
Ion	Ratio	Lower	Upper
130	100		
95	96.7	0.0	193.8





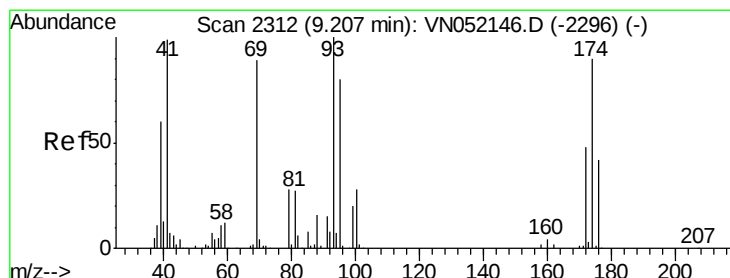
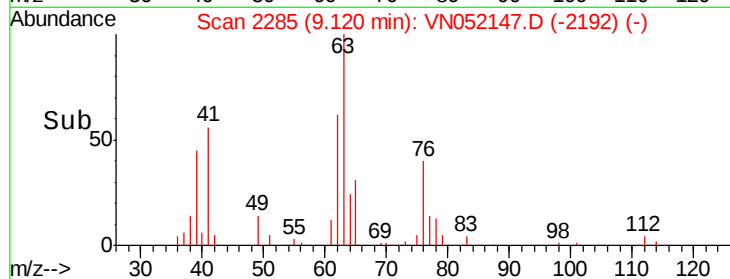
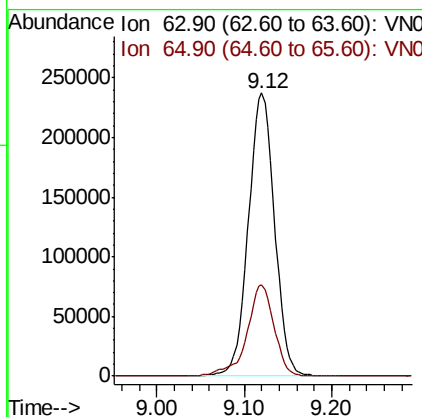
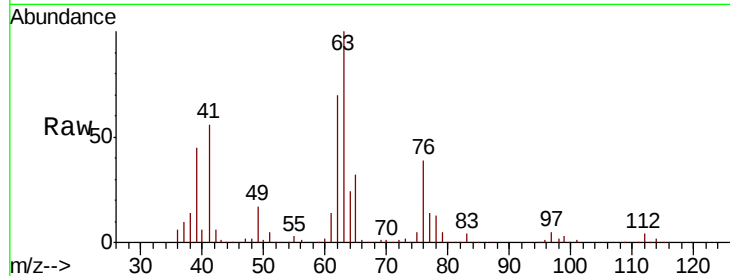
#45
 1,2-Dichloropropane
 Concen: 102.763 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 63 Resp: 492947
 Ion Ratio Lower Upper
 63 100
 65 32.1 24.4 36.6

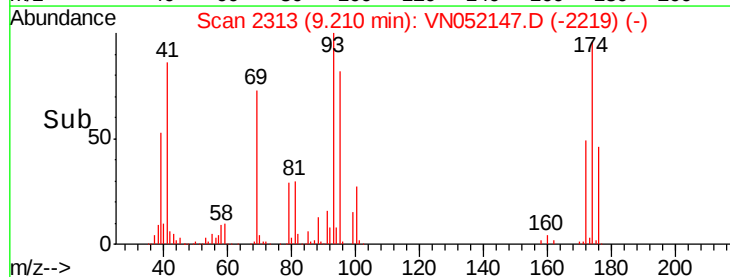
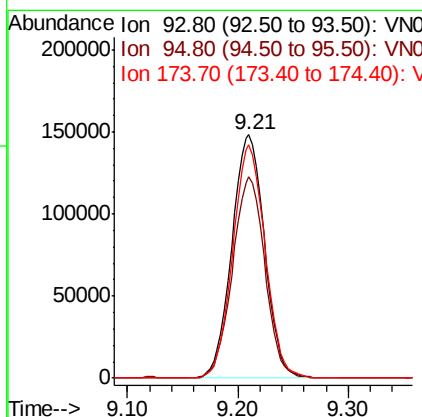
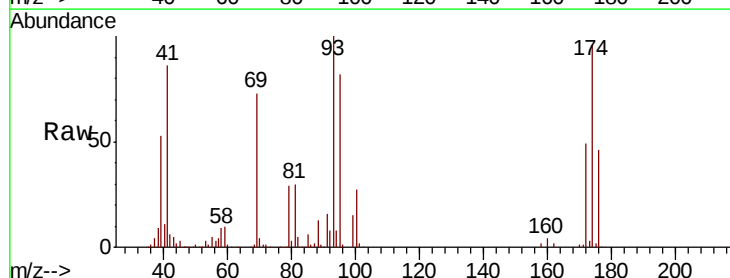
Manual Integrations
 APPROVED

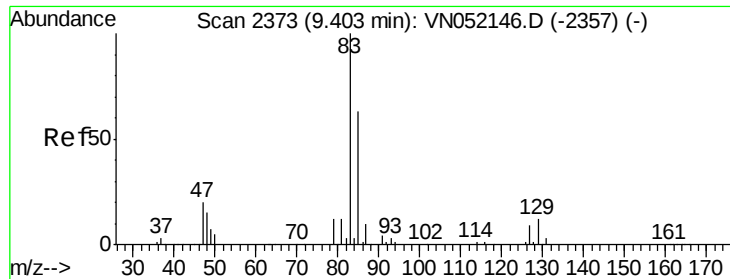
MMDadoda
 11/6/2018 9:59:58 AM



#46
 Dibromomethane
 Concen: 99.753 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion: 93 Resp: 304314
 Ion Ratio Lower Upper
 93 100
 95 82.5 64.5 96.7
 174 95.1 74.6 112.0





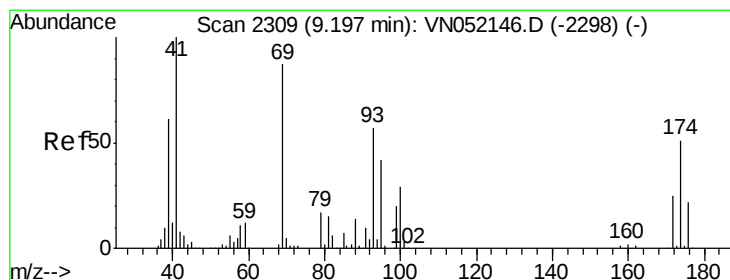
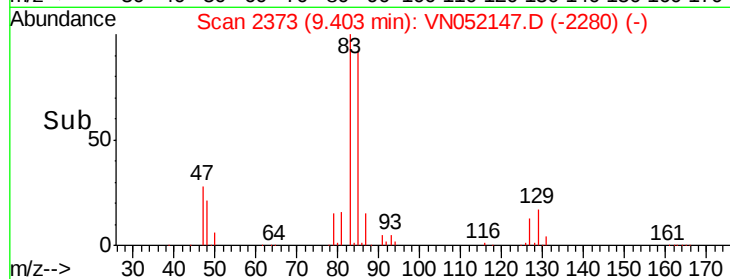
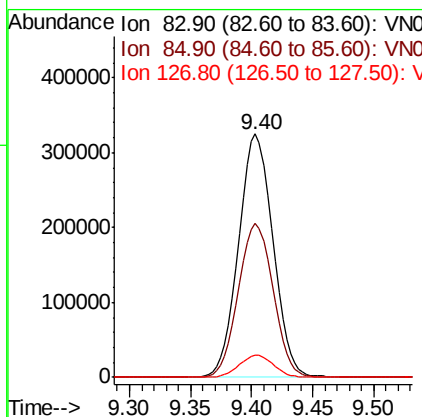
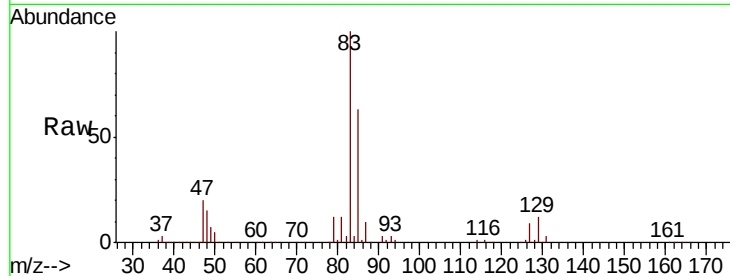
#47
Bromodichloromethane
Concen: 106.617 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	83	Resp	634329
Ion Ratio	100	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	9.0	7.2	10.8

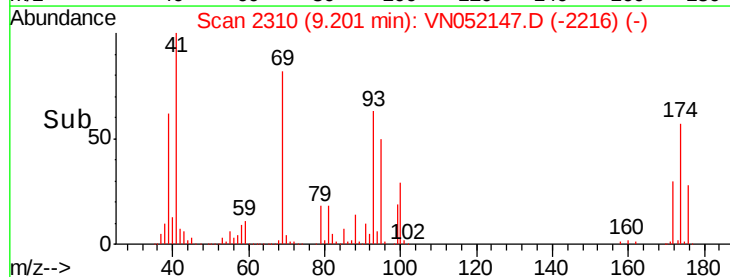
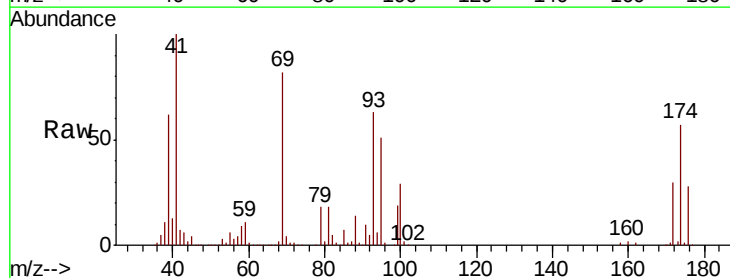
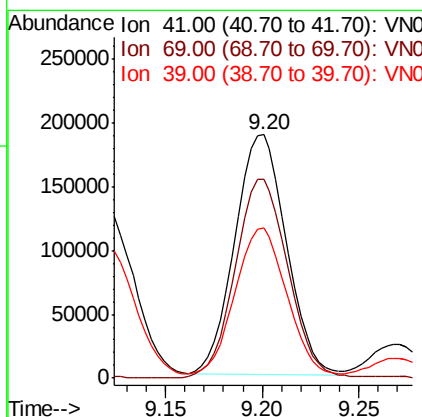
Manual Integrations
APPROVED

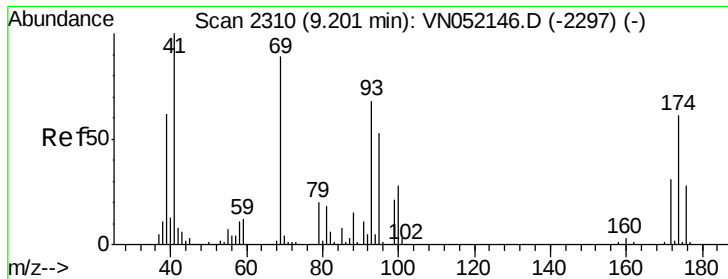
MMDadoda
11/6/2018 9:59:58 AM



#48
Methyl methacrylate
Concen: 102.954 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion	41	Resp	348362
Ion Ratio	100	Lower	Upper
41	100		
69	85.2	69.7	104.5
39	63.7	50.6	76.0





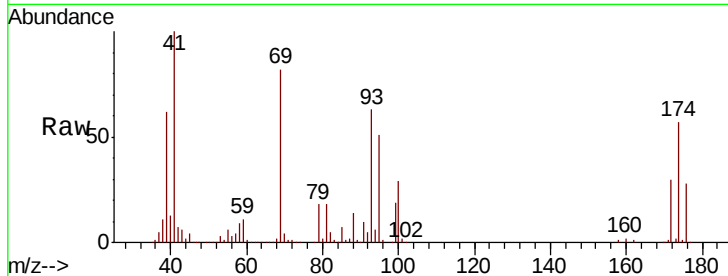
#49
 1,4-Dioxane
 Concen: 2031.613 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

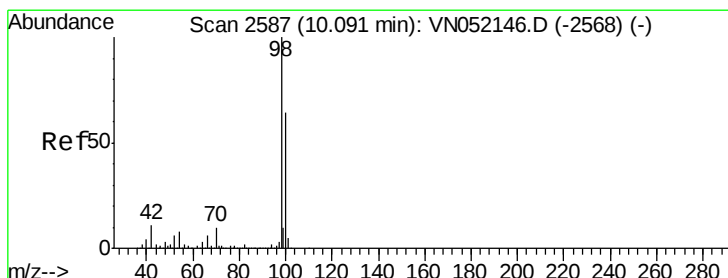
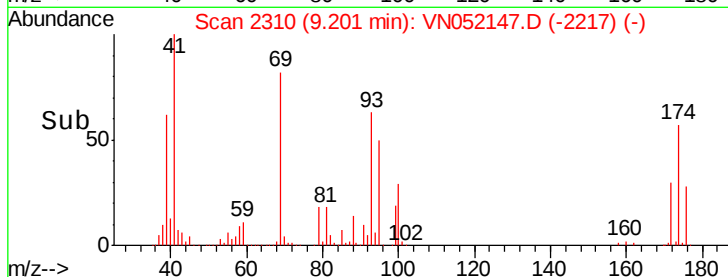
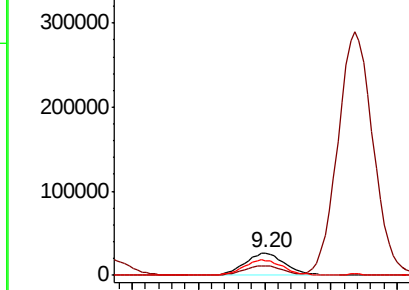
Tot Ion	Ratio	Lower	Upper
88	100		
43	38.6	33.0	49.6
58	68.2	58.6	88.0

Manual Integrations
 APPROVED

MMDadoda
 11/6/2018 9:59:58 AM

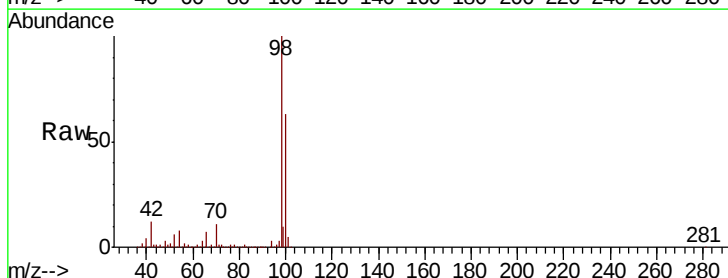


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

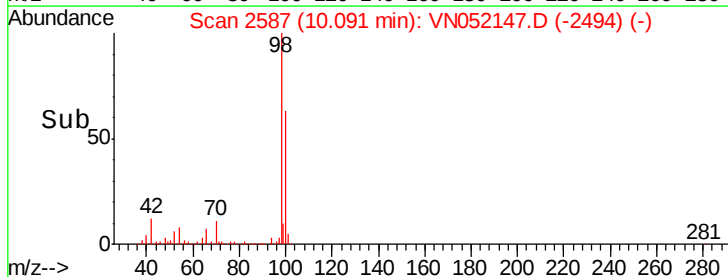
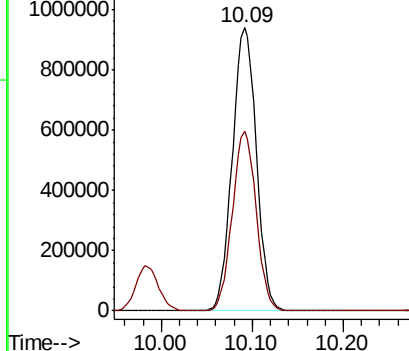


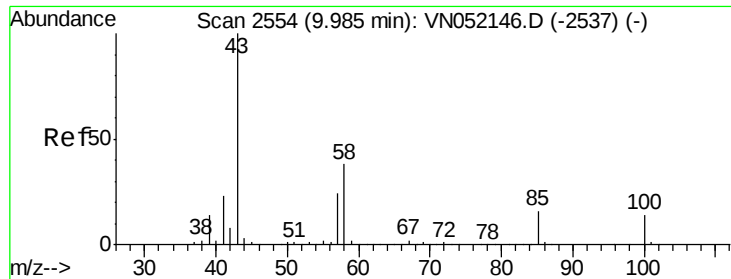
#50
 Toluene-d8
 Concen: 2031.613 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.9	50.5	75.7



Abundance Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 506.074 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1879642

Ion Ratio Lower Upper

43 100

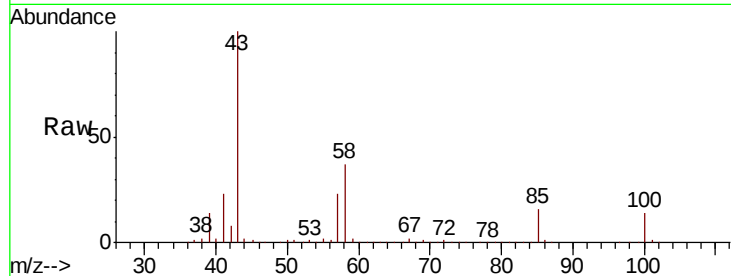
58 36.2 29.6 44.4

Manual Integrations

APPROVED

MMDadoda

11/6/2018 9:59:58 AM



Abundance Ion 43.00 (42.70 to 43.70): VN052147.D (-2461) (-)

Ion 58.00 (57.70 to 58.70): VN052147.D (-2461) (-)

1200000

1000000

800000

600000

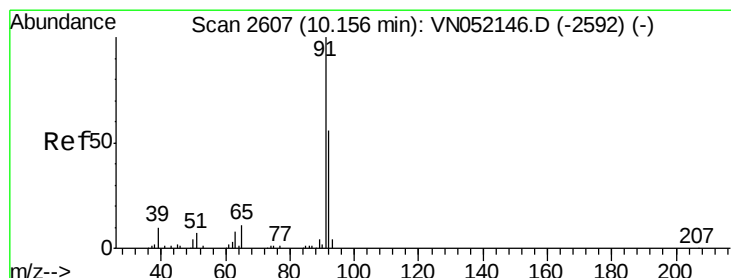
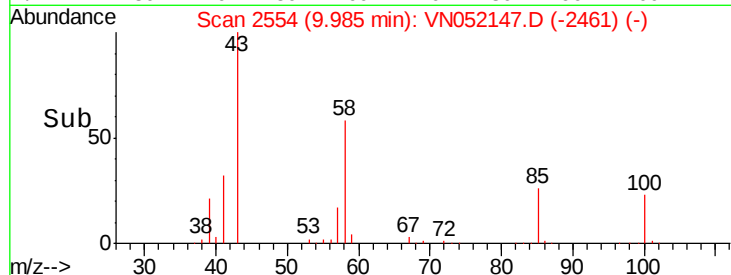
400000

200000

0

9.90 9.99 10.00 10.10

Time-->



#52

Toluene

Concen: 107.335 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052147.D

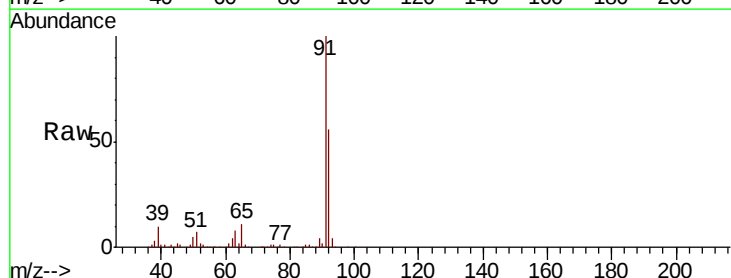
Acq: 5 Nov 2018 14:29

Tgt Ion: 92 Resp: 1172377

Ion Ratio Lower Upper

92 100

91 177.5 142.5 213.7



Abundance Ion 92.00 (91.70 to 92.70): VN052147.D (-2514) (-)

Ion 91.00 (90.70 to 91.70): VN052147.D (-2514) (-)

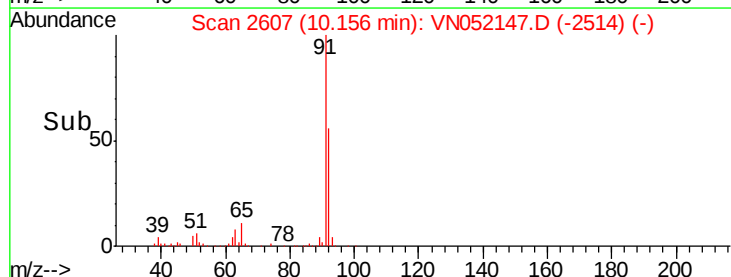
1000000

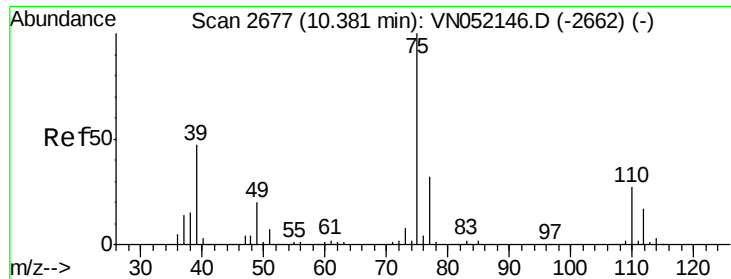
500000

0

10.10 10.16 10.20

Time-->





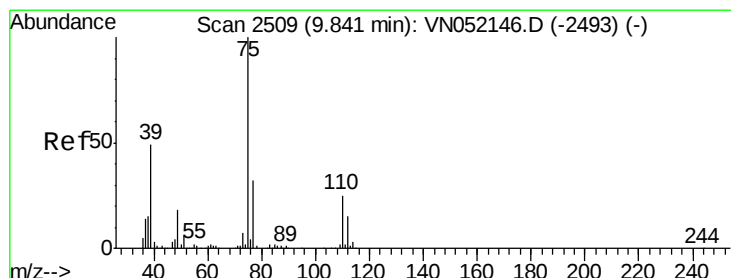
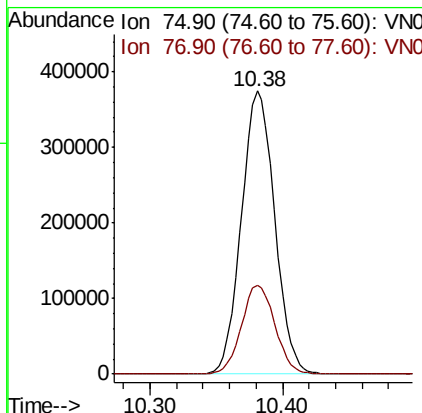
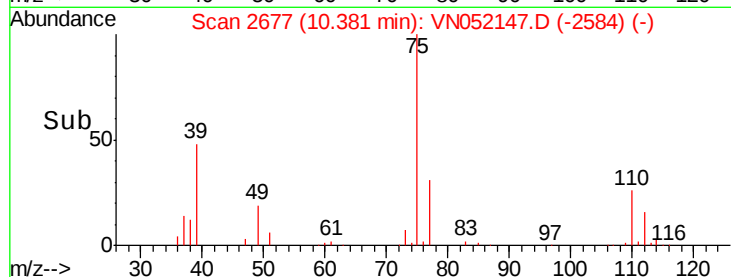
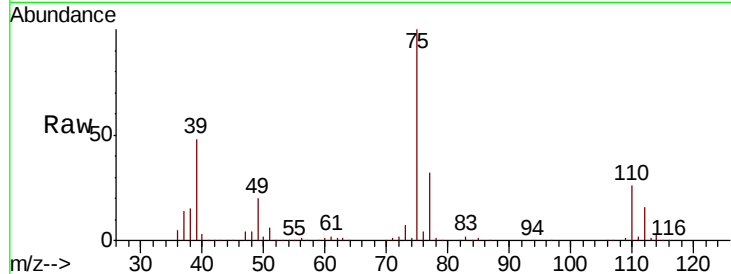
#53
 t-1,3-Dichloropropene
 Concen: 111.947 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 75 Resp: 653388
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.8 38.6

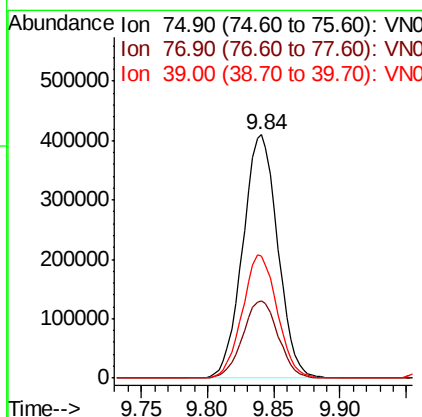
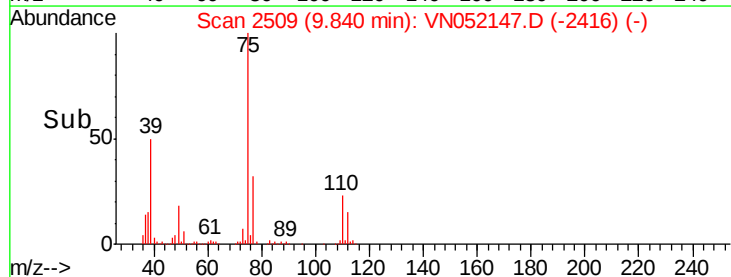
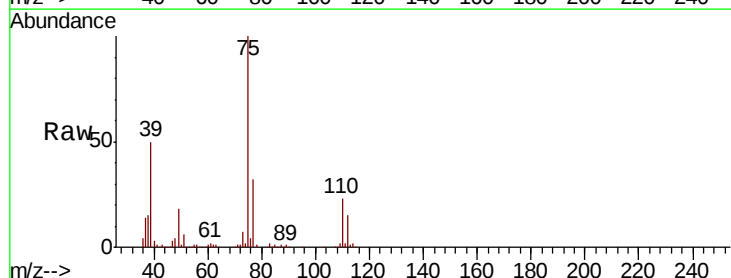
Manual Integrations
 APPROVED

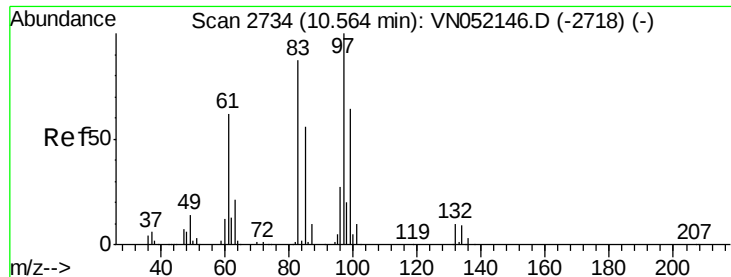
MMDadoda
 11/6/2018 9:59:58 AM



#54
 cis-1,3-Dichloropropene
 Concen: 109.916 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion: 75 Resp: 750711
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.8 38.8
 39 50.1 39.2 58.8





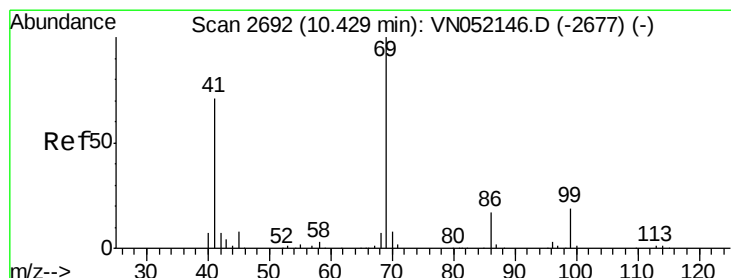
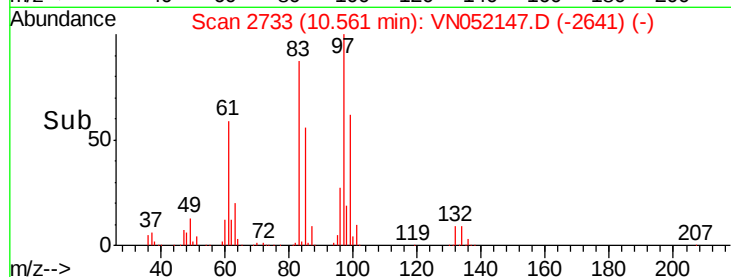
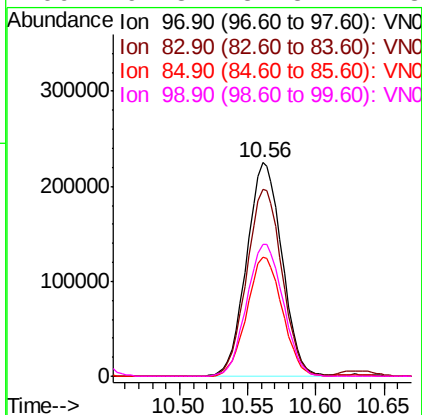
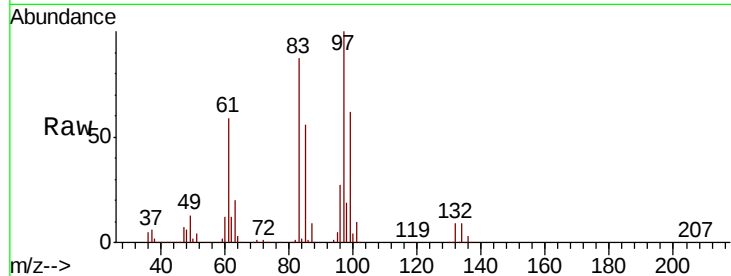
#55
 1,1,2-Trichloroethane
 Concen: 105.287 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.4	69.3	103.9
85	55.9	44.9	67.3
99	61.8	51.5	77.3

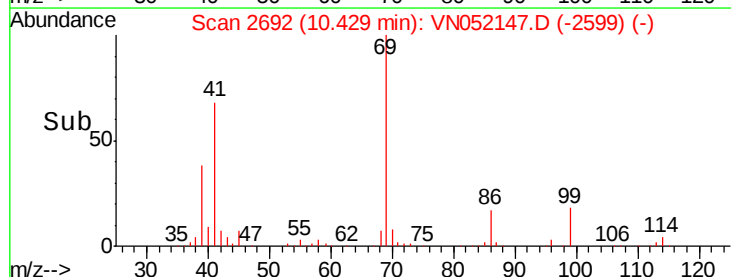
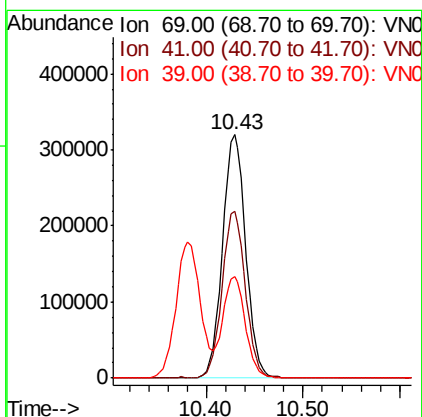
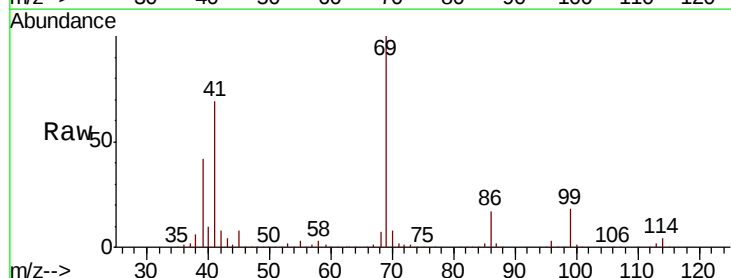
Manual Integrations
 APPROVED

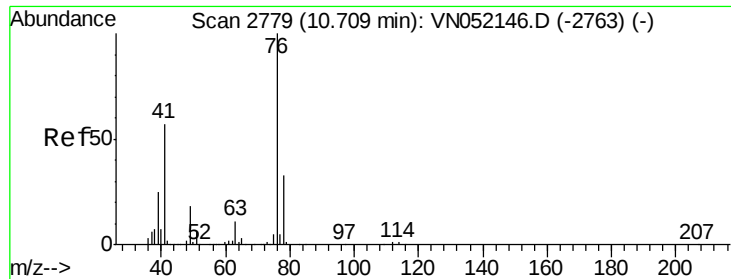
MMDadoda
 11/6/2018 9:59:58 AM



#56
 Ethyl methacrylate
 Concen: 106.152 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
69	100		
41	68.2	55.4	83.0
39	40.5	32.0	48.0





#57

1,3-Dichloropropane

Concen: 102.506 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 76 Resp: 695426

Ion Ratio Lower Upper

76 100

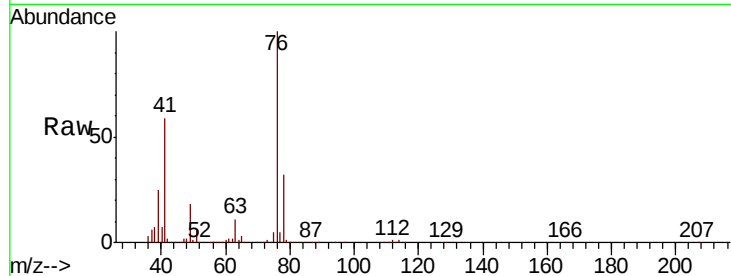
78 32.4 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

11/6/2018 9:59:58 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

400000

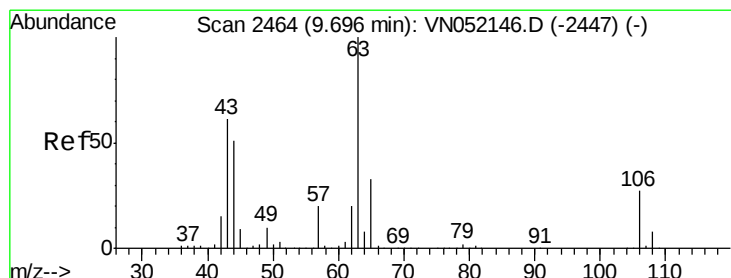
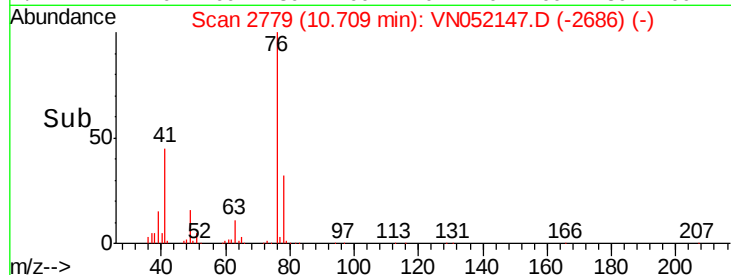
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 538.116 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN052147.D

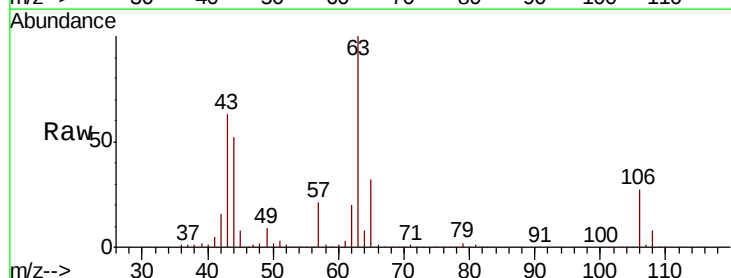
Acq: 5 Nov 2018 14:29

Tgt Ion: 63 Resp: 1453669

Ion Ratio Lower Upper

63 100

106 26.7 21.0 31.4



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

800000

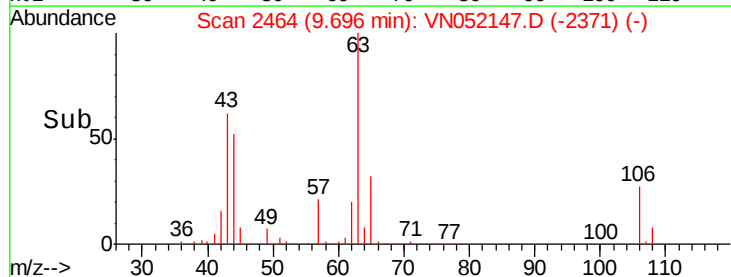
600000

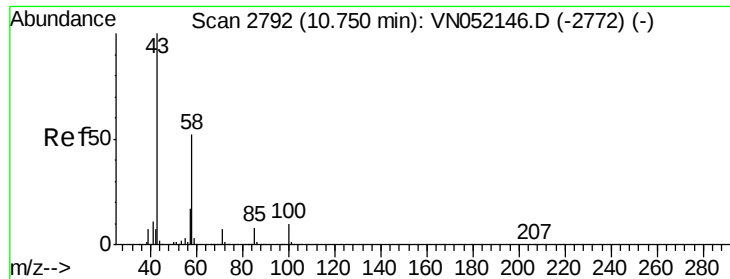
400000

200000

0

Time-->





#59

2-Hexanone

Concen: 492.652 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1273759

Ion Ratio Lower Upper

43 100

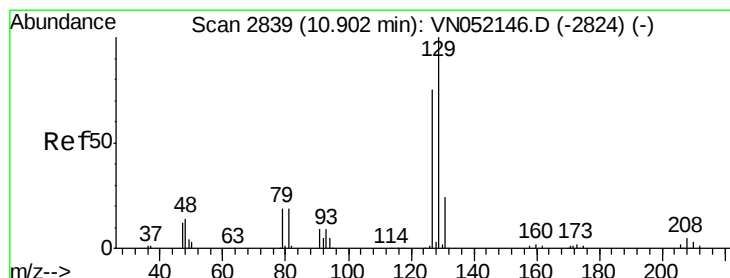
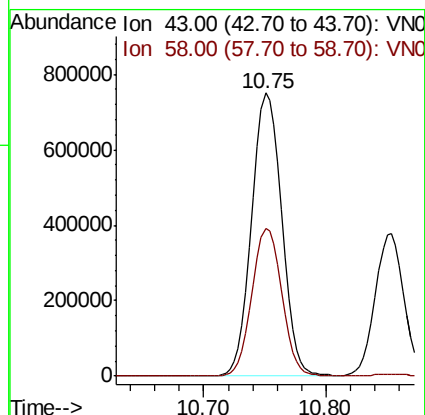
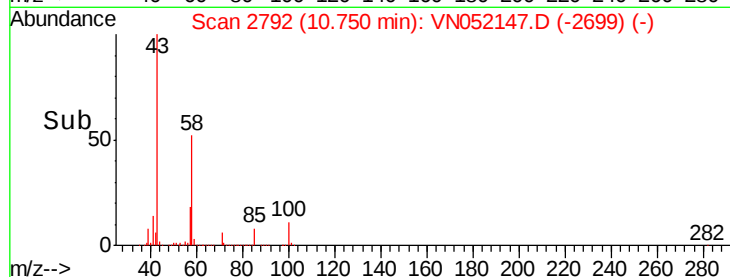
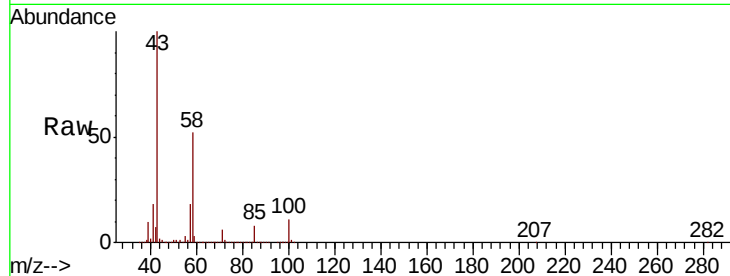
58 52.0 25.8 77.4

Manual Integrations

APPROVED

MMDadoda

11/6/2018 9:59:58 AM



#60

Dibromochloromethane

Concen: 111.962 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN052147.D

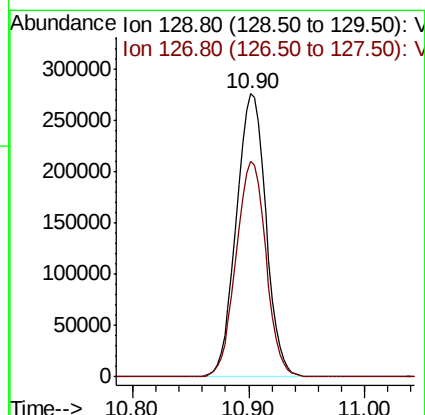
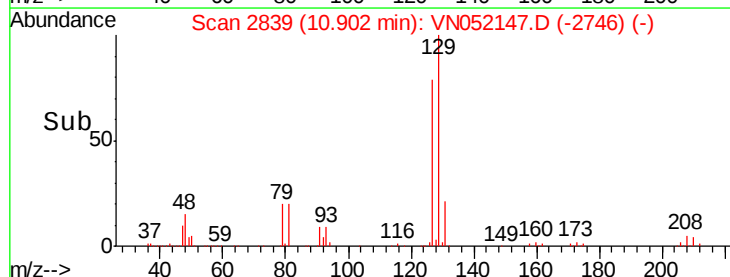
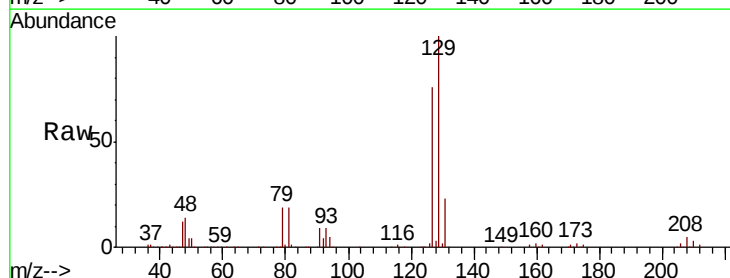
Acq: 5 Nov 2018 14:29

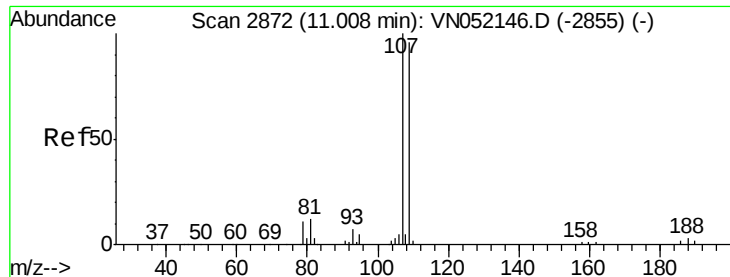
Tgt Ion: 129 Resp: 490327

Ion Ratio Lower Upper

129 100

127 76.8 38.0 114.1





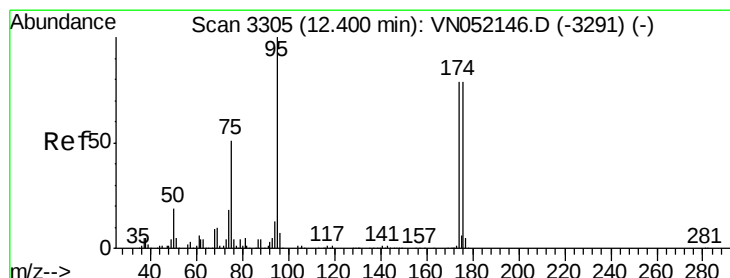
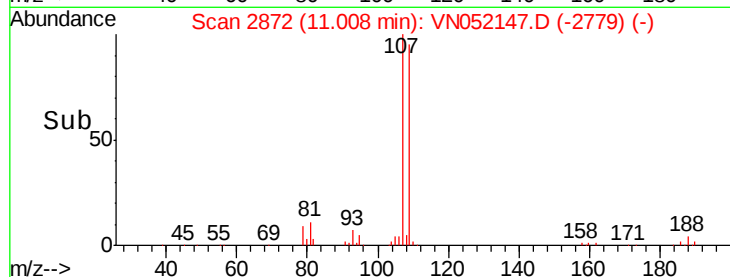
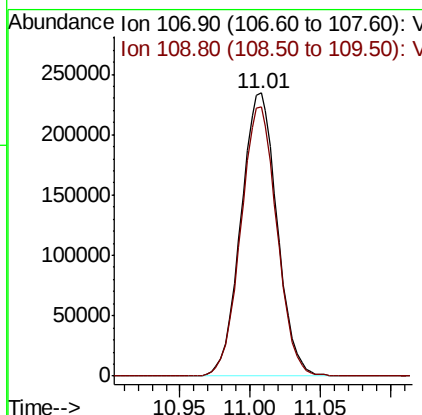
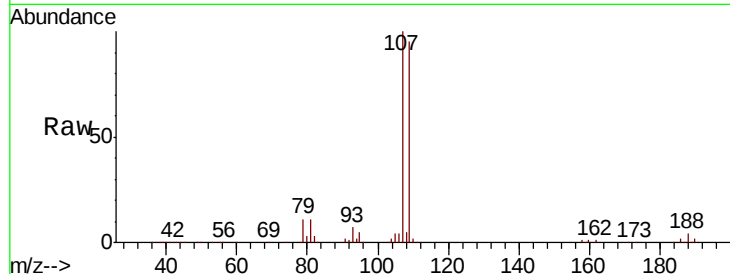
#61
 1,2-Dibromoethane
 Concen: 107.759 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.7	76.0	114.0

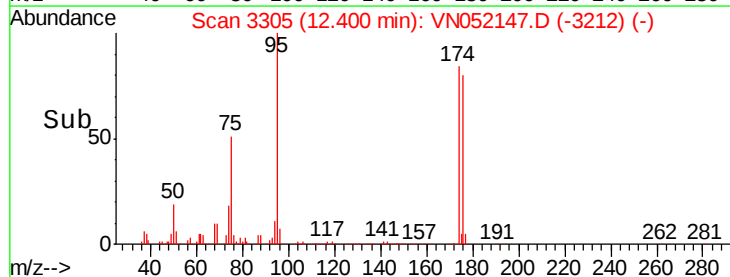
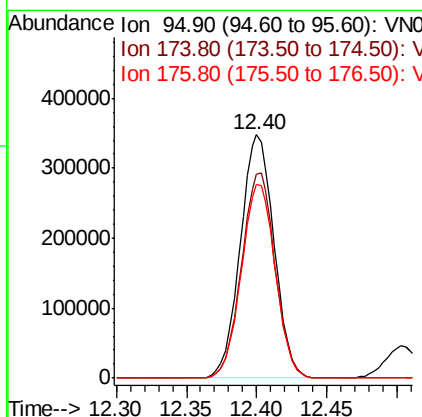
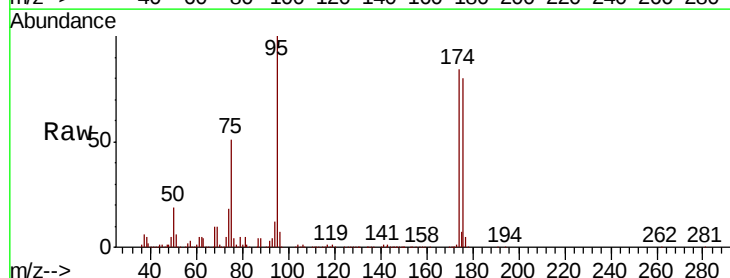
Manual Integrations
 APPROVED

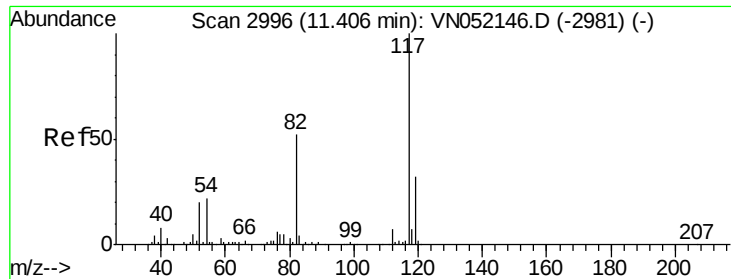
MMDadoda
 11/6/2018 9:59:58 AM



#62
 4-Bromofluorobenzene
 Concen: 107.759 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	162.6
176	80.6	0.0	155.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

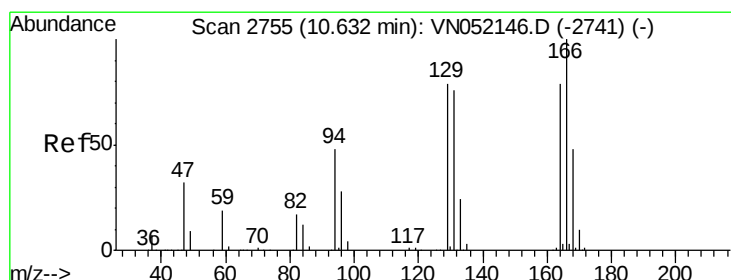
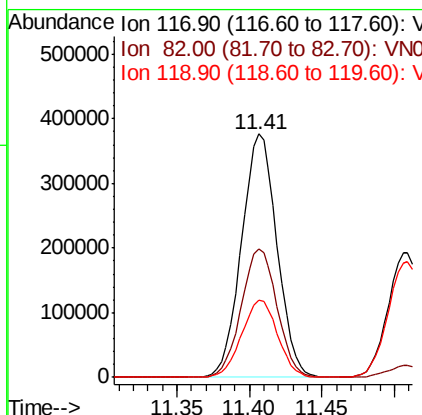
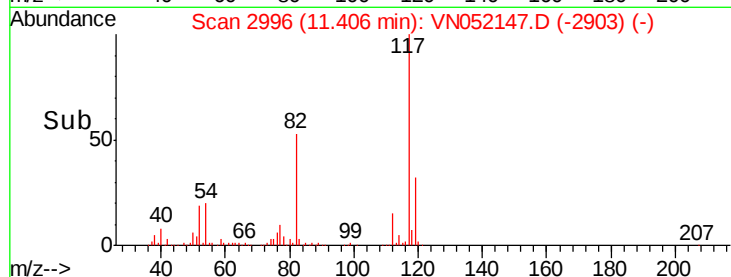
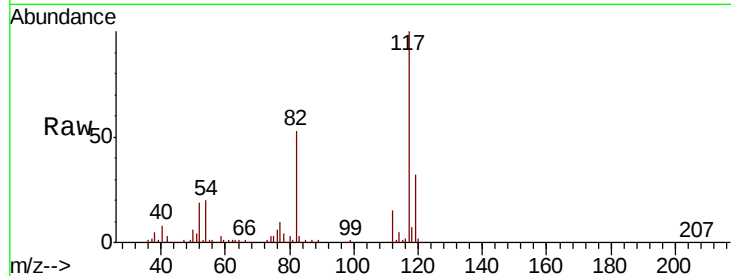
ClientSampleID :

VSTDIC100

Tot Ion:	117	Resp:	641052
Ion Ratio	Lower	Upper	
117	100		
82	52.9	41.9	62.9
119	31.7	25.7	38.5

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



#64

Tetrachloroethene

Concen: 105.960 ug/l

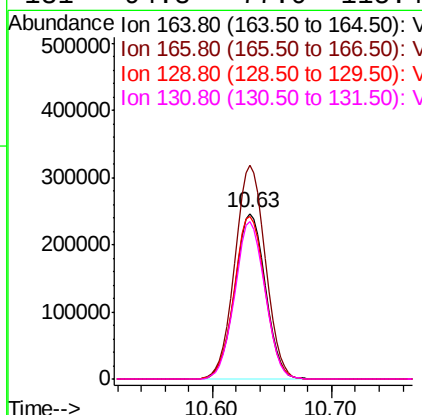
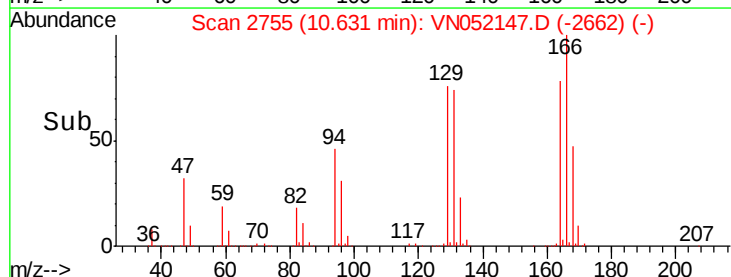
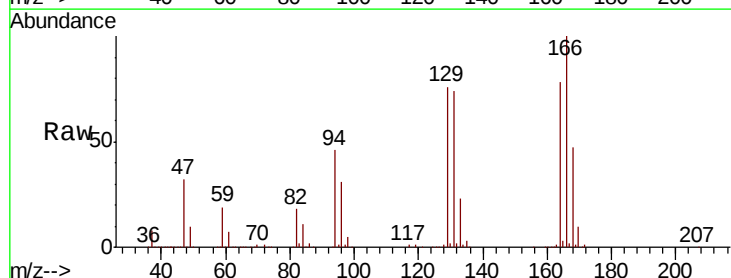
RT: 10.63 min Scan# 2755

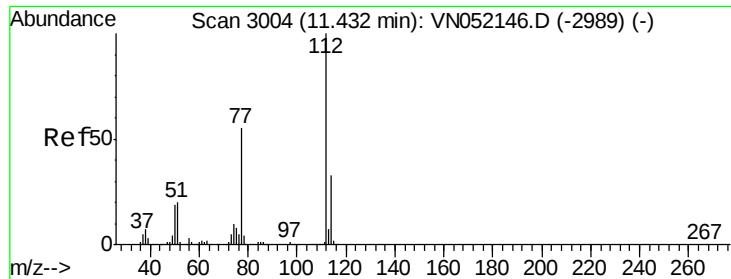
Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion:	164	Resp:	440062
Ion Ratio	Lower	Upper	
164	100		
166	128.9	100.8	151.2
129	98.4	79.1	118.7
131	94.8	77.0	115.4





#65

Chlorobenzene

Concen: 101.603 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:112 Resp: 1327567

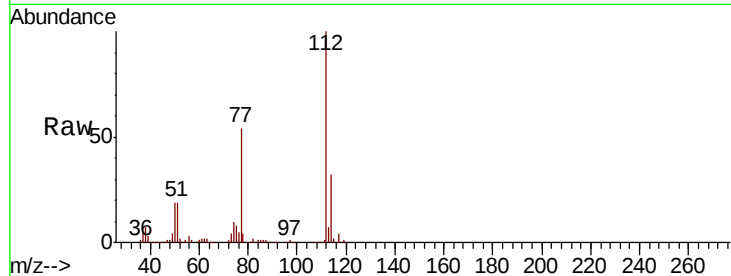
Ion Ratio Lower Upper

112 100

114 32.0 26.2 39.4

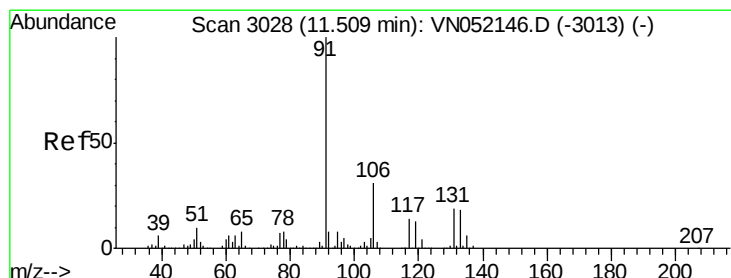
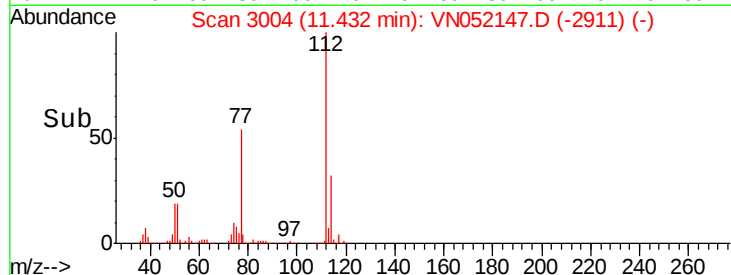
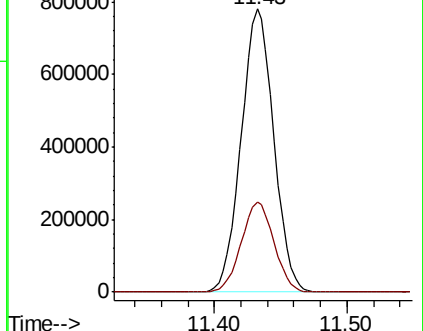
Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 106.892 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

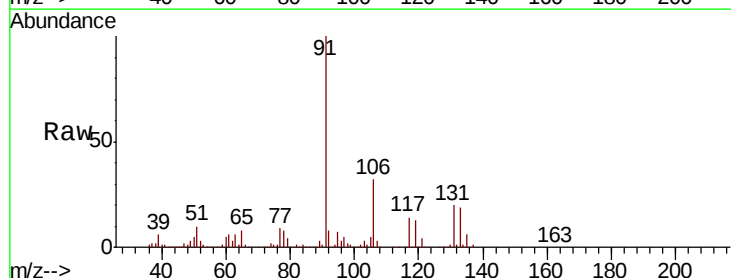
Tgt Ion:131 Resp: 469045

Ion Ratio Lower Upper

131 100

133 96.4 46.6 139.8

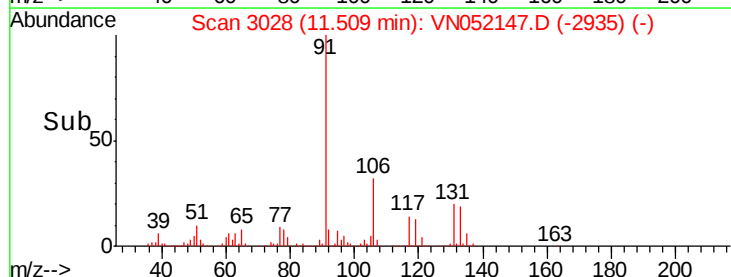
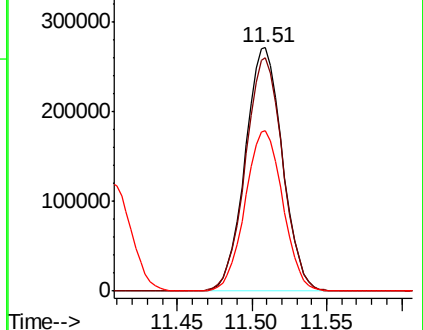
119 66.5 33.6 100.8

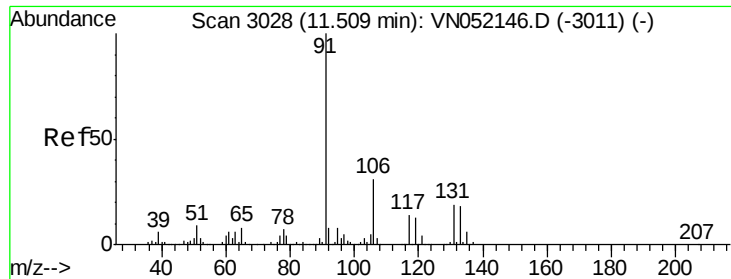


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





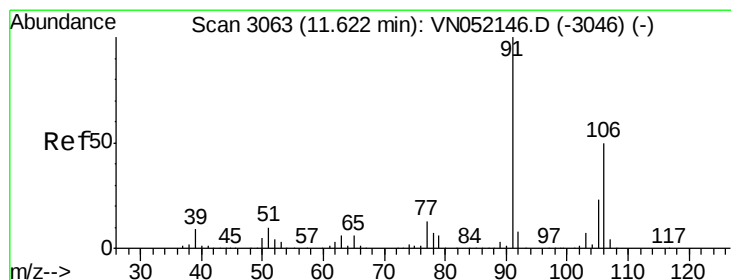
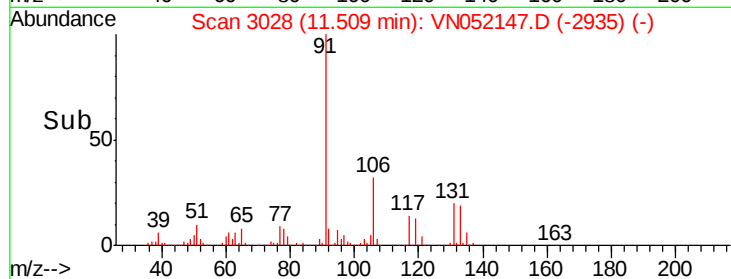
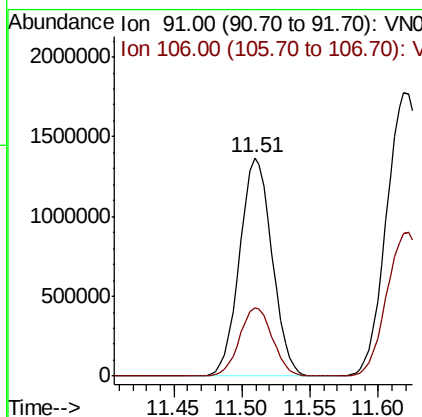
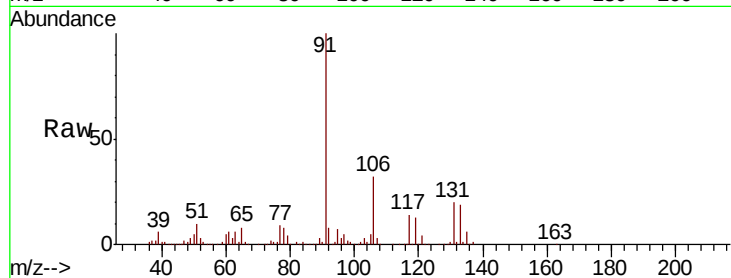
#67
Ethyl Benzene
Concen: 104.099 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 2259167
Ion Ratio Lower Upper
91 100
106 31.5 25.1 37.7

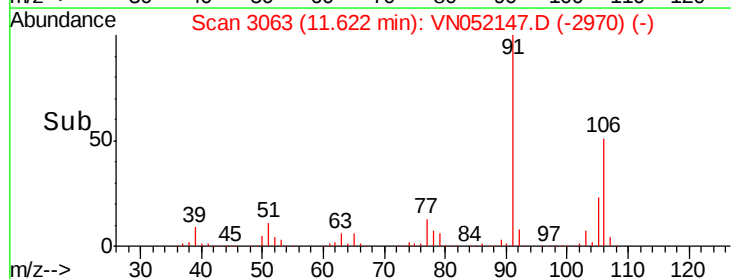
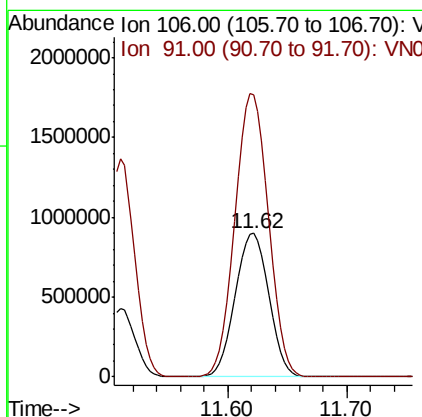
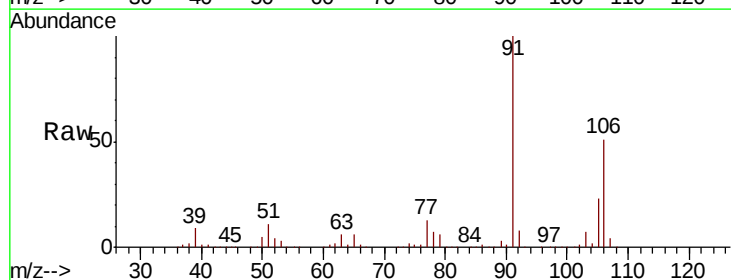
Manual Integrations
APPROVED

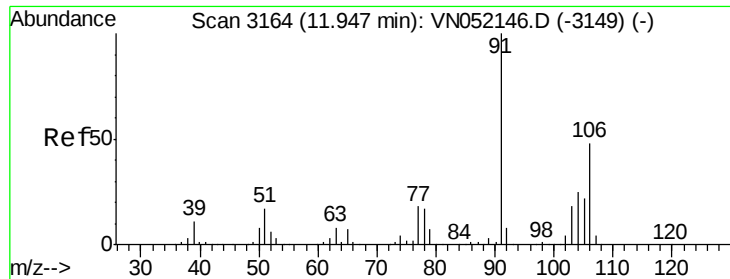
MMDadoda
11/6/2018 9:59:58 AM



#68
m/p-Xylenes
Concen: 210.949 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion: 106 Resp: 1766462
Ion Ratio Lower Upper
106 100
91 196.0 158.2 237.4





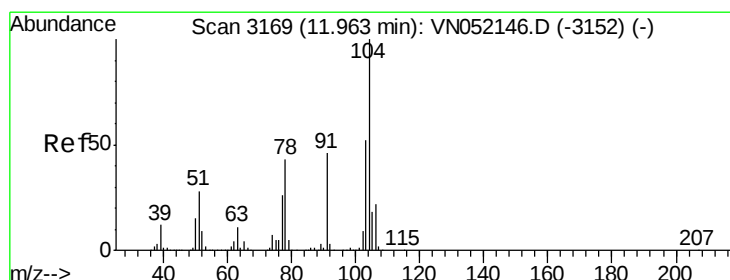
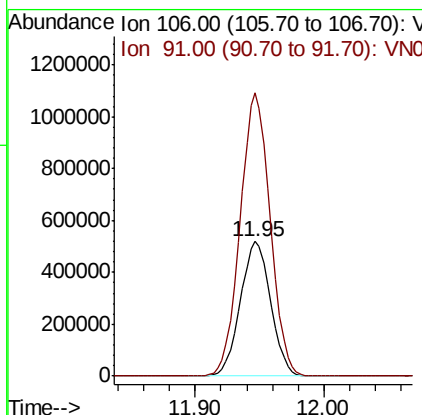
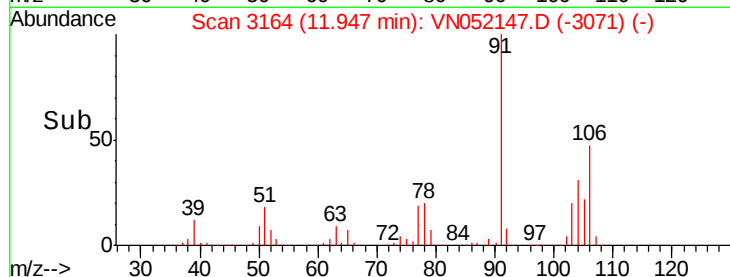
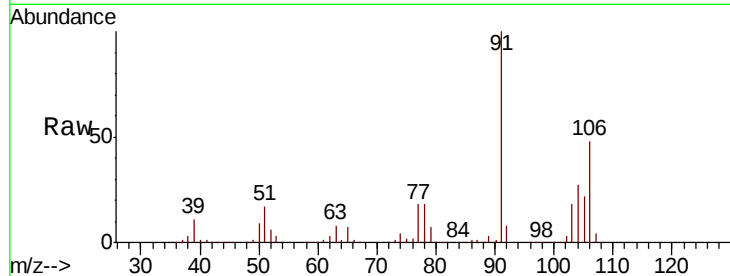
#69
o-Xylene
Concen: 104.246 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:106 Resp: 846579
Ion Ratio Lower Upper
106 100
91 208.1 104.8 314.3

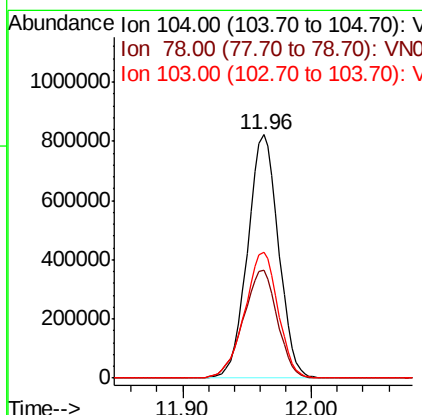
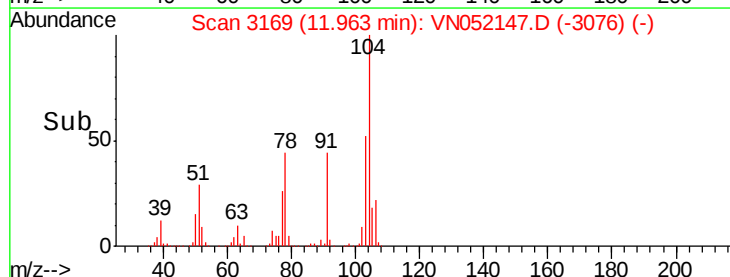
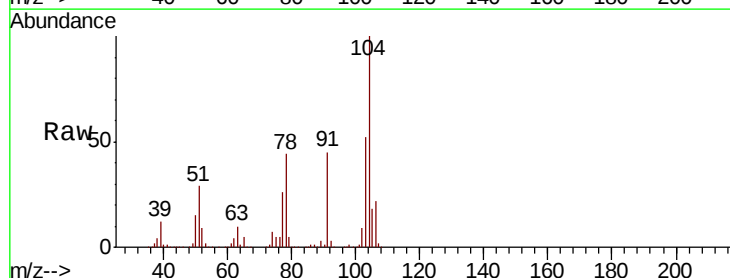
Manual Integrations
APPROVED

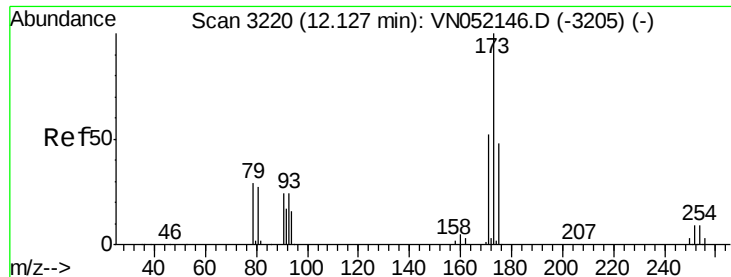
MMDadoda
11/6/2018 9:59:58 AM



#70
Styrene
Concen: 106.752 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion:104 Resp: 1372382
Ion Ratio Lower Upper
104 100
78 49.0 39.4 59.0
103 55.9 45.1 67.7





#71

Bromoform

Concen: 116.074 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

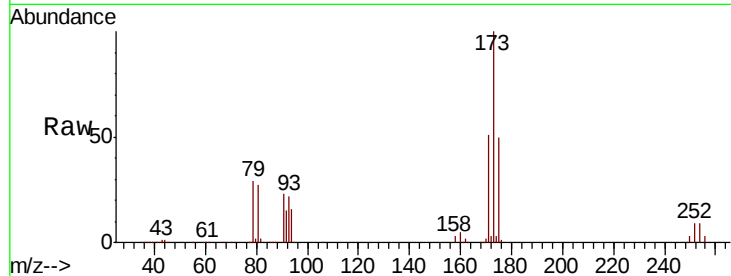
ClientSampleId :

VSTDIC100

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.8	74.4
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM

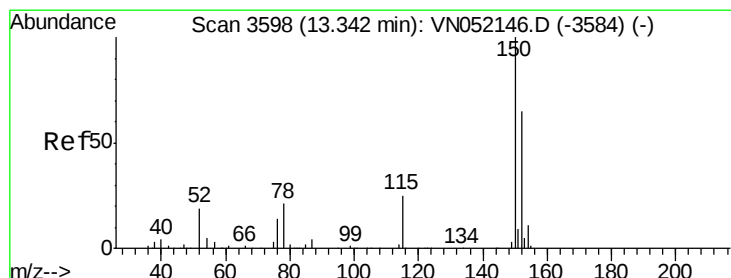
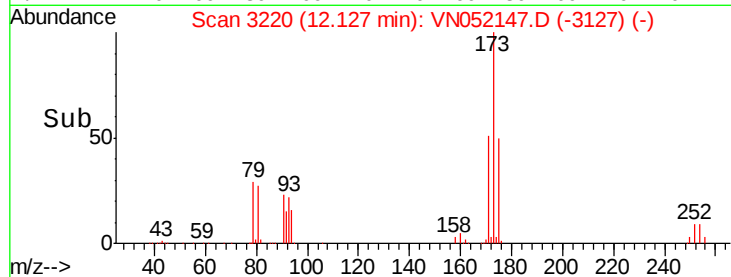
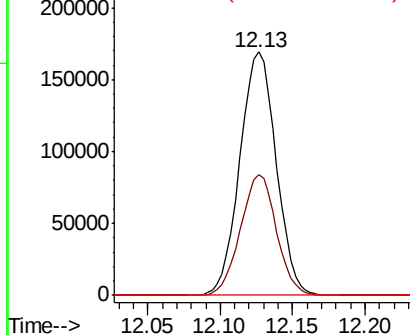


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

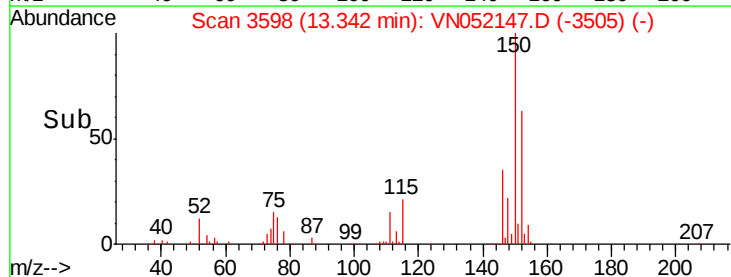
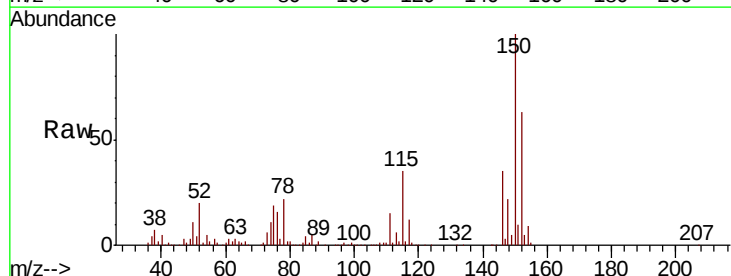
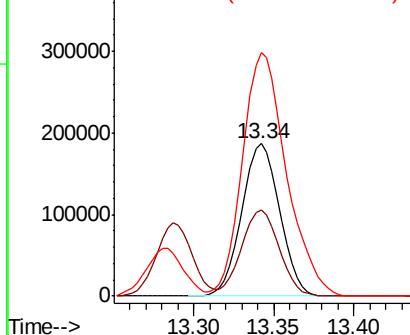
Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	28.5	85.5
150	186.3	0.0	348.6

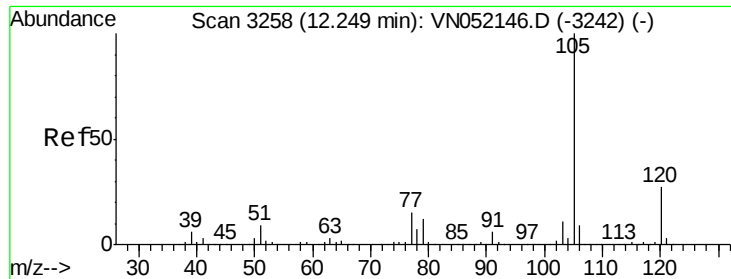
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 99.106 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 2253602

Ion Ratio Lower Upper

105 100

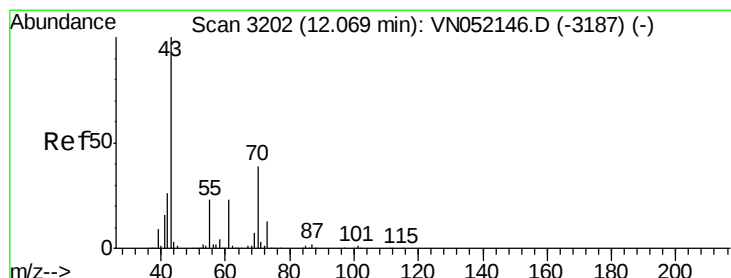
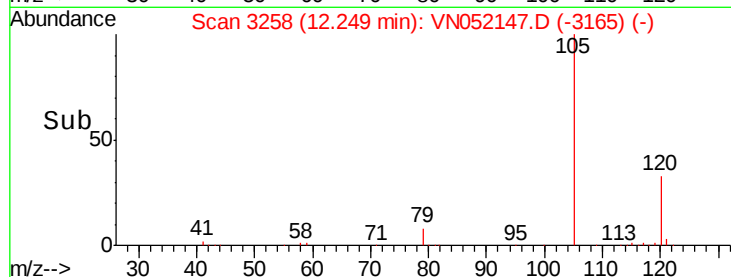
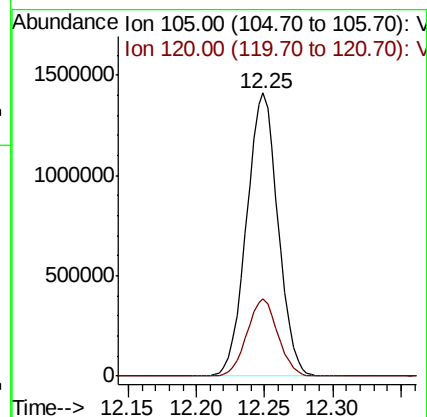
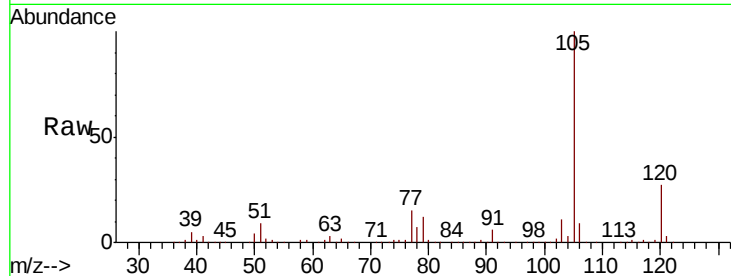
120 26.9 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

11/6/2018 9:59:58 AM



#74

N-ethyl acetate

Concen: 93.039 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion: 43 Resp: 669782

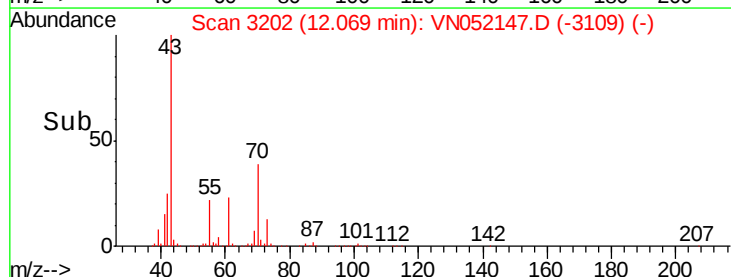
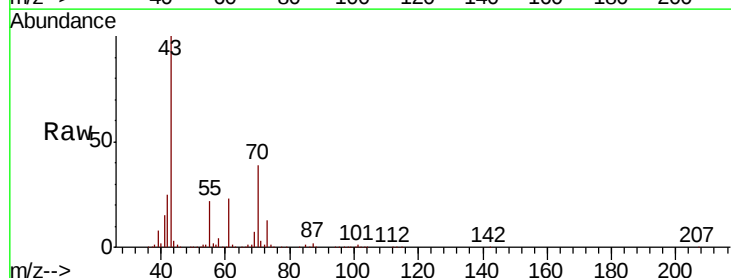
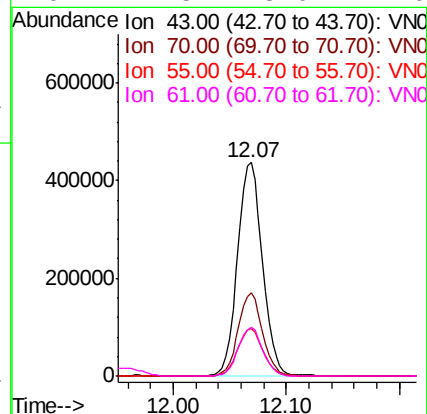
Ion Ratio Lower Upper

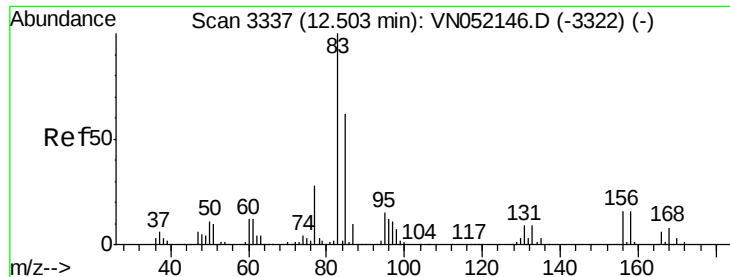
43 100

70 38.2 31.1 46.7

55 22.5 18.5 27.7

61 22.5 18.0 27.0





#75

1,1,2,2-Tetrachloroethane

Concen: 93.987 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

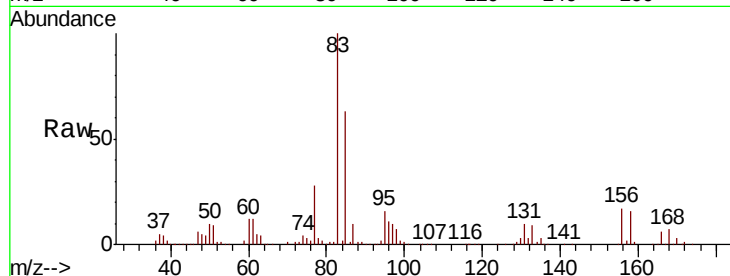
ClientSampleId :

VSTDIC100

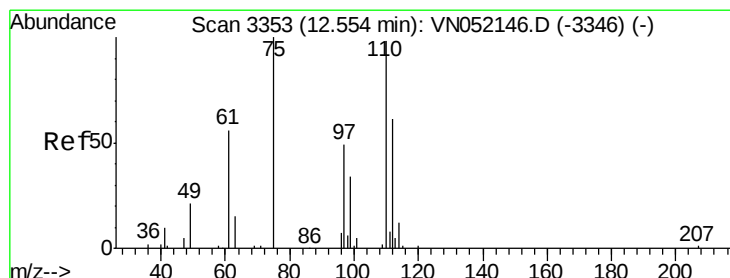
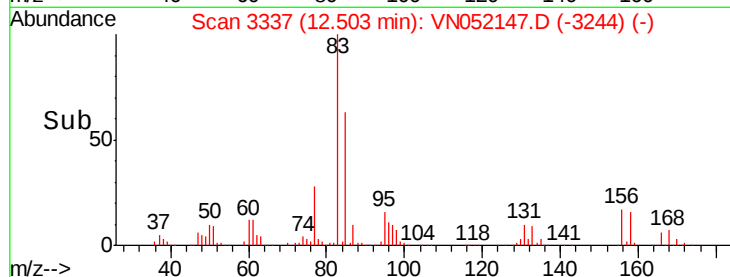
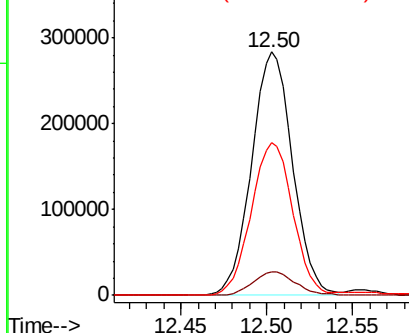
Tot Ion:	83	Resp:	467812
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.0	14.9
85	63.7	31.8	95.3

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



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



#76

1,2,3-Trichloropropane

Concen: 103.145 ug/l m

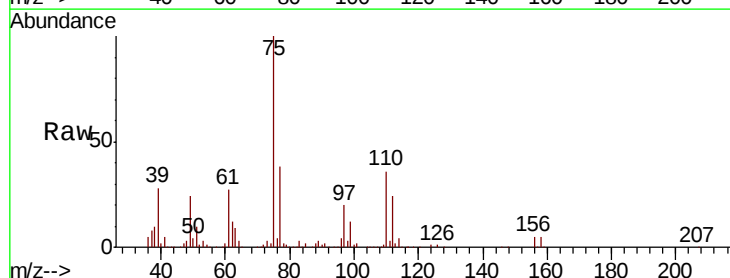
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

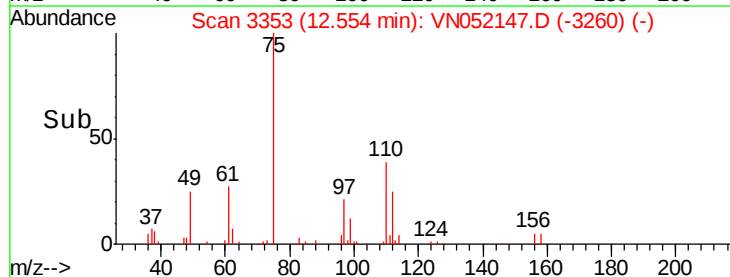
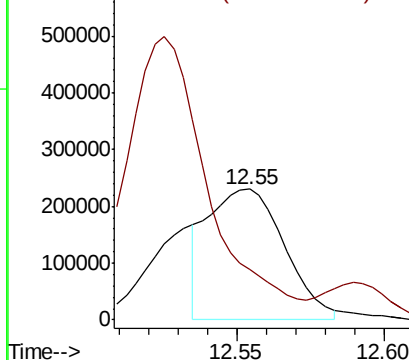
Lab File: VN052147.D

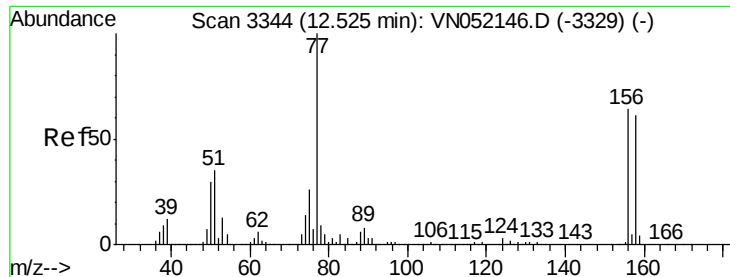
Acq: 5 Nov 2018 14:29

Tgt Ion:	75	Resp:	414097
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



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





#77

Bromobenzene

Concen: 100.594 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

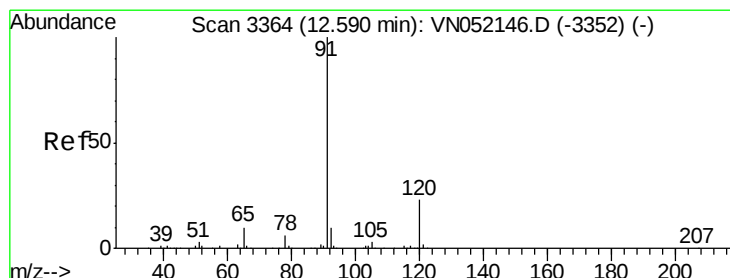
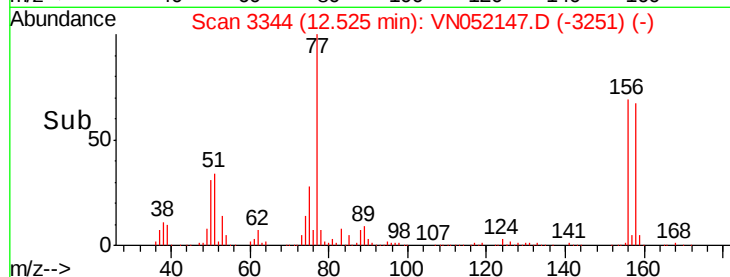
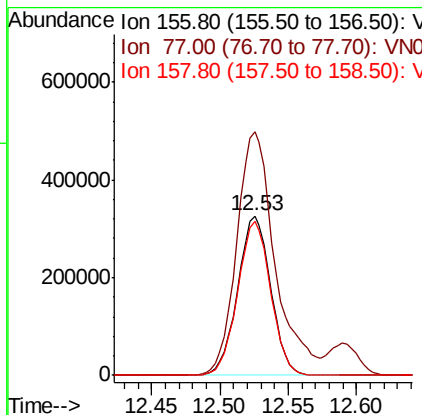
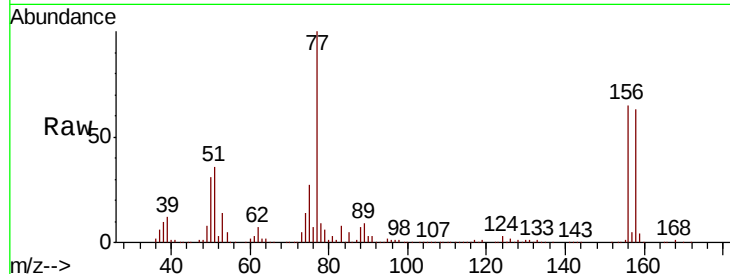
ClientSampleId :

VSTDIC100

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	179.1	91.6	274.9		
158	96.6	48.1	144.3		

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



#78

n-propylbenzene

Concen: 98.875 ug/l

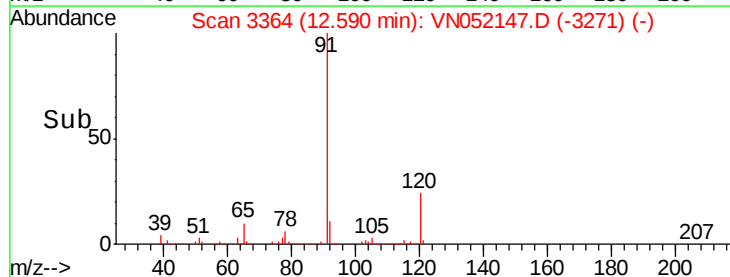
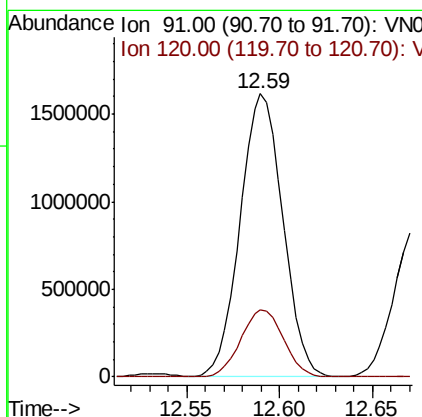
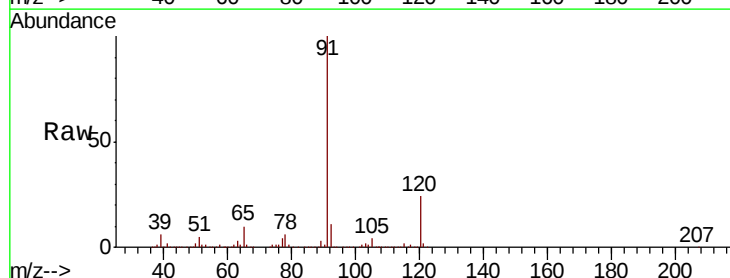
RT: 12.59 min Scan# 3364

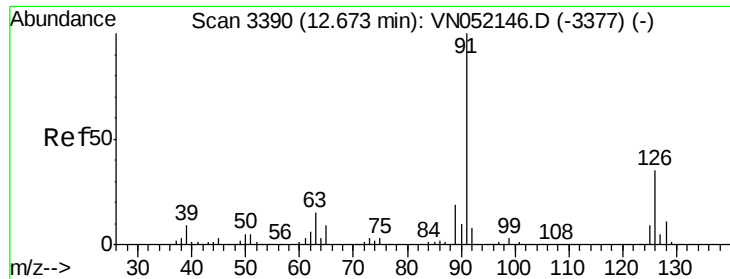
Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	23.9	11.9	35.7		





#79

2-Chlorotoluene

Concen: 96.201 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1466042

Ion Ratio Lower Upper

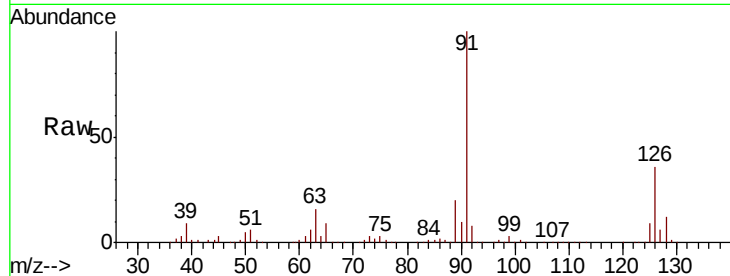
91 100

126 36.2 18.0 54.0

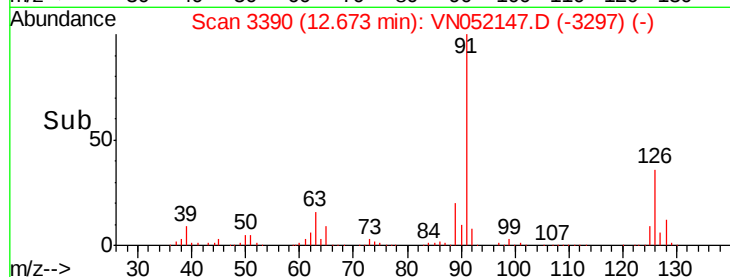
Manual Integrations
APPROVED

MMDadoda

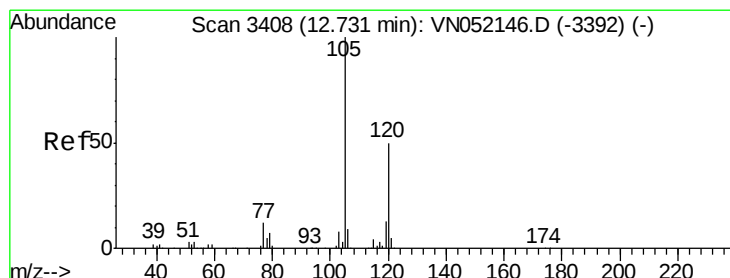
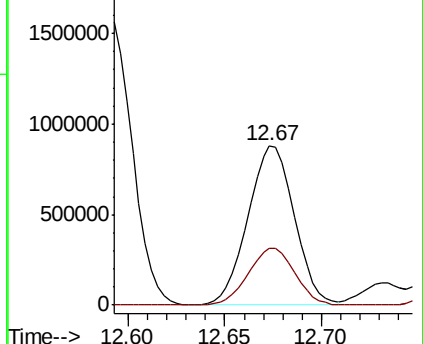
11/6/2018 9:59:58 AM



Abundance Ion 91.00 (90.70 to 91.70): VN052147.D (-3297) (-)



Ion 125.90 (125.60 to 126.60): VN052147.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 98.172 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052147.D

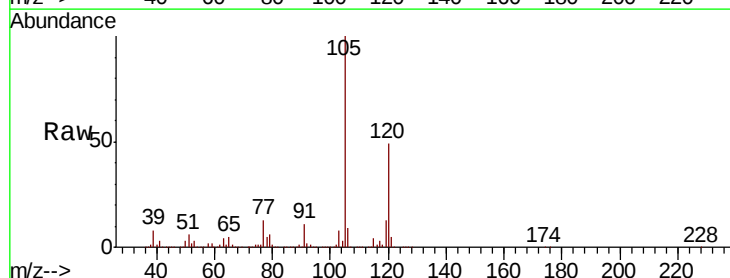
Acq: 5 Nov 2018 14:29

Tgt Ion:105 Resp: 1806987

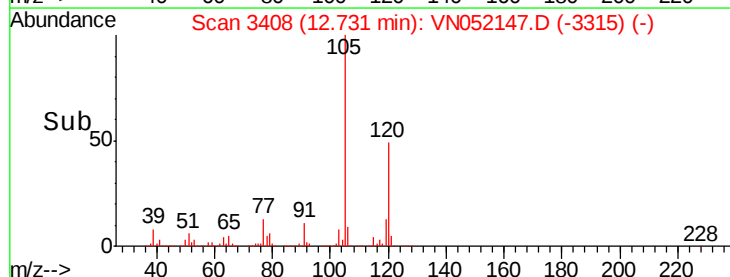
Ion Ratio Lower Upper

105 100

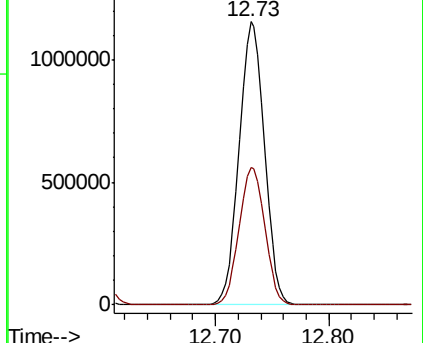
120 49.3 24.9 74.6

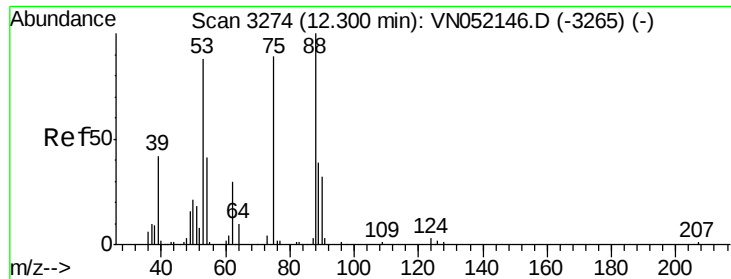


Abundance Ion 105.00 (104.70 to 105.70): VN052147.D (-3315) (-)



Ion 120.00 (119.70 to 120.70): VN052147.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 108.257 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

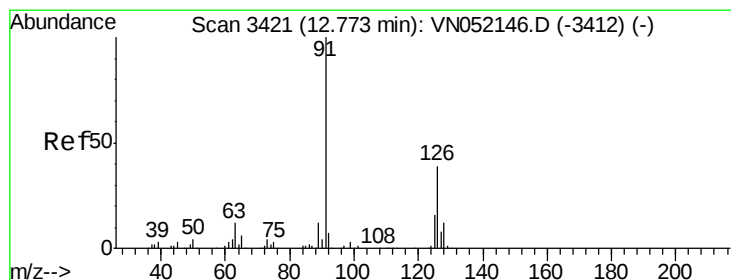
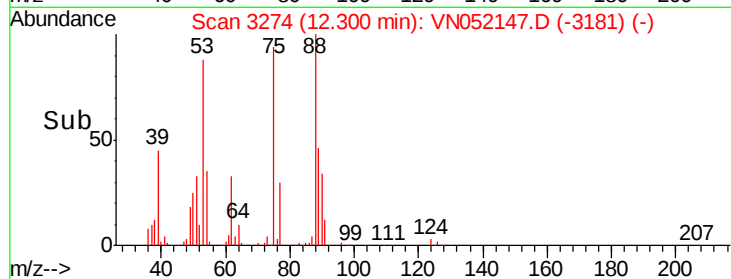
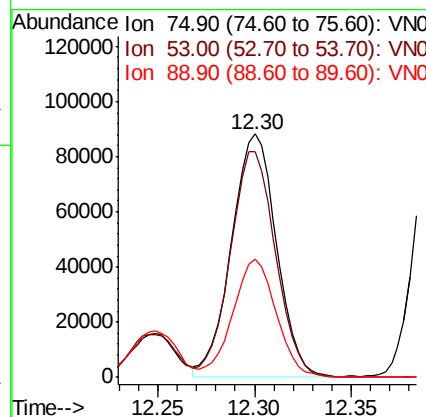
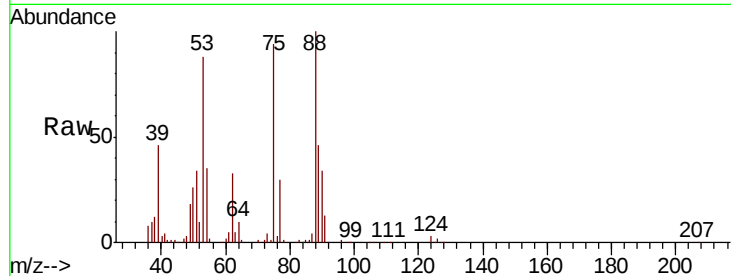
ClientSampleId :

VSTDIC100

Tot Ion:	75	Resp:	143095
Ion Ratio	Lower	Upper	
75	100		
53	92.5	79.4	119.0
89	46.3	35.8	53.8

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



#82

4-Chlorotoluene

Concen: 98.124 ug/l

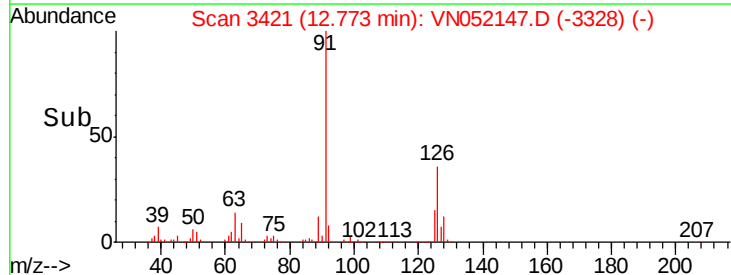
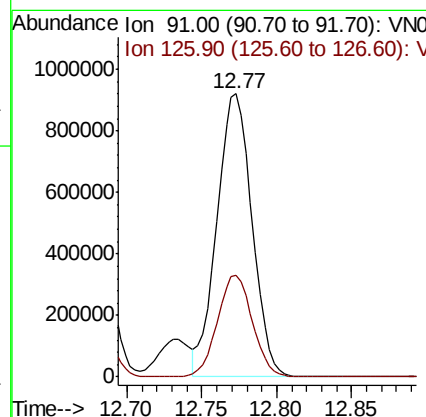
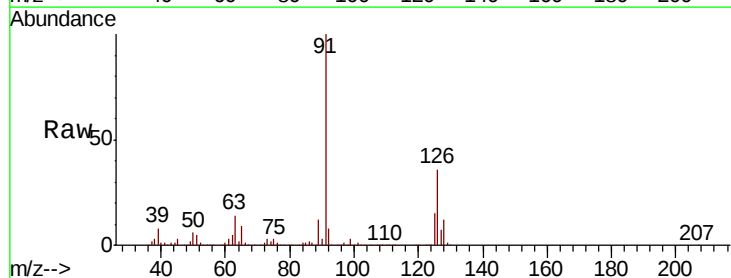
RT: 12.77 min Scan# 3421

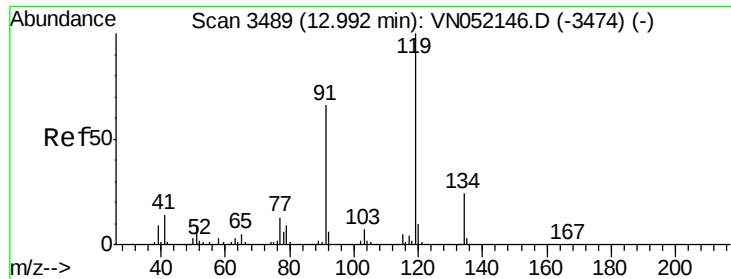
Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion:	91	Resp:	1502958
Ion Ratio	Lower	Upper	
91	100		
126	35.8	17.8	53.5





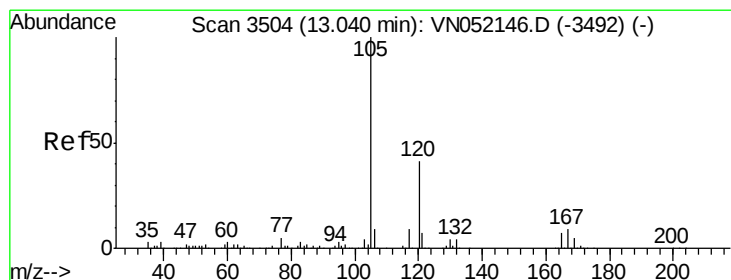
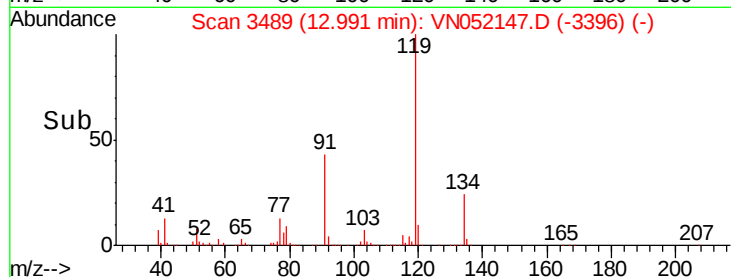
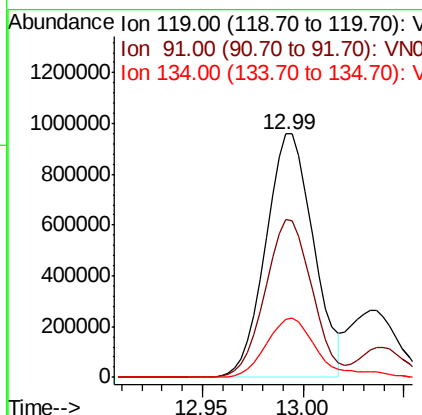
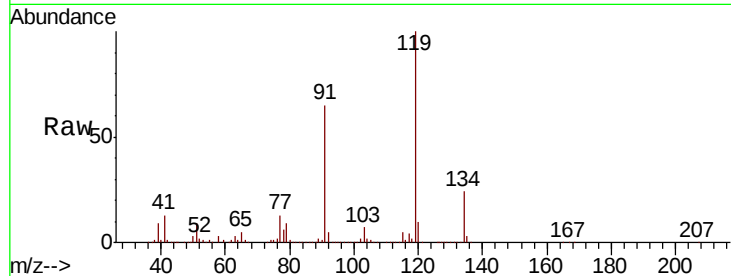
#83
 tert-Butylbenzene
 Concen: 97.083 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:119 Resp: 1577867
 Ion Ratio Lower Upper
 119 100
 91 63.6 32.3 96.8
 134 26.2 13.0 38.9

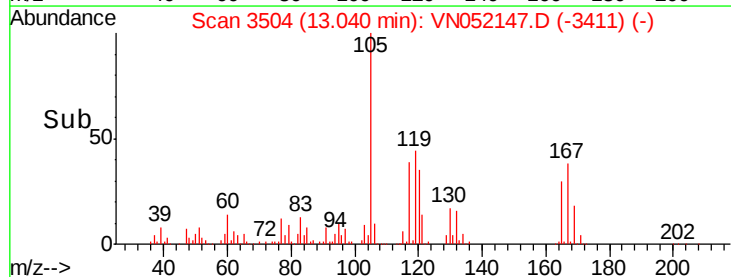
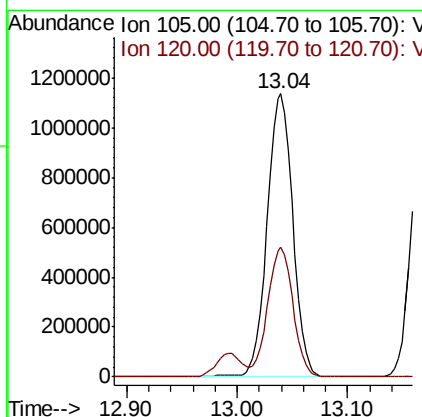
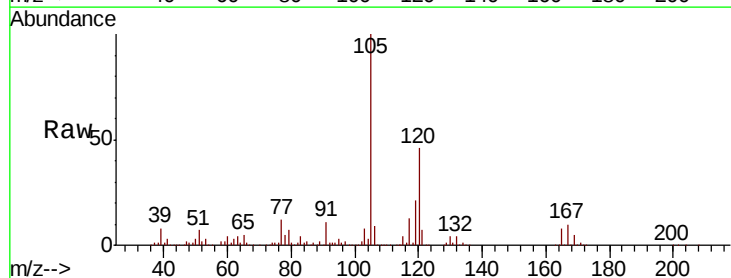
Manual Integrations
 APPROVED

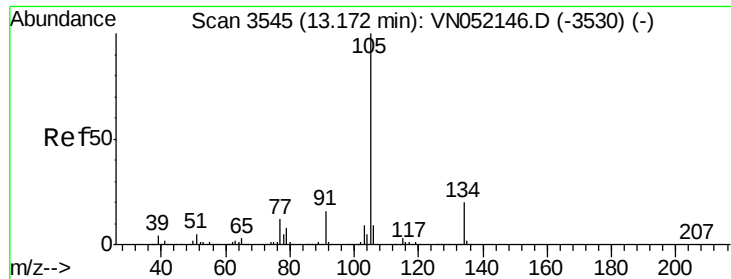
MMDadoda
 11/6/2018 9:59:58 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 100.444 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion:105 Resp: 1840370
 Ion Ratio Lower Upper
 105 100
 120 45.3 23.2 69.5





#85

sec-Butylbenzene

Concen: 98.632 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 2167611

Ion Ratio Lower Upper

105 100

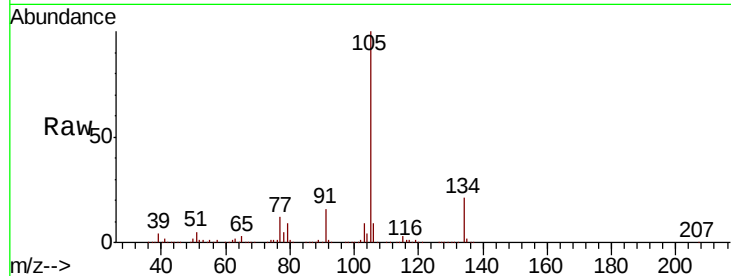
134 20.6 10.2 30.4

Manual Integrations

APPROVED

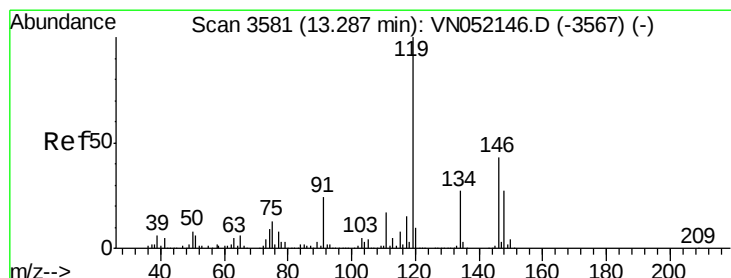
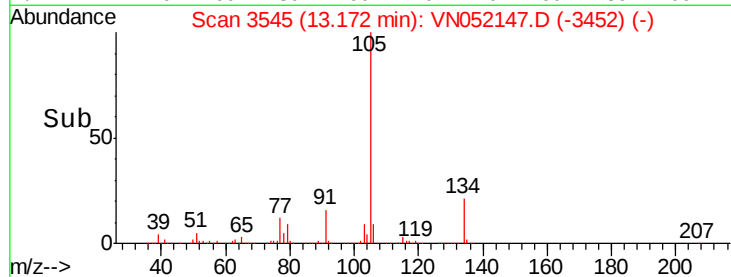
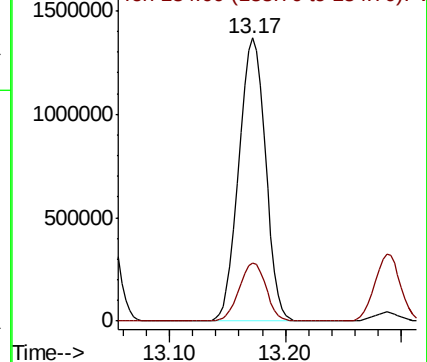
MMDadoda

11/6/2018 9:59:58 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 101.780 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

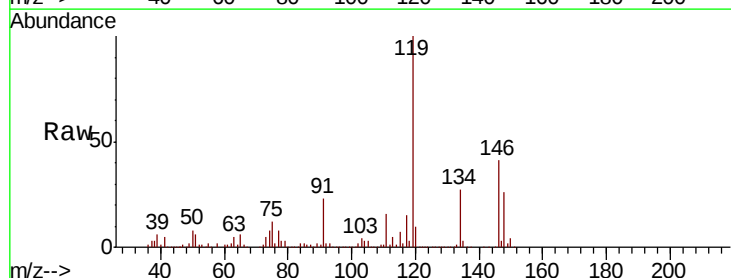
Tgt Ion:119 Resp: 1882689

Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.5

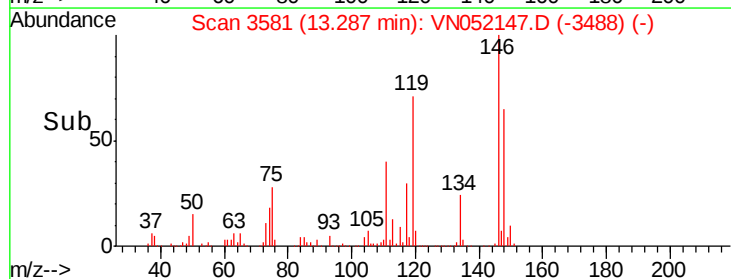
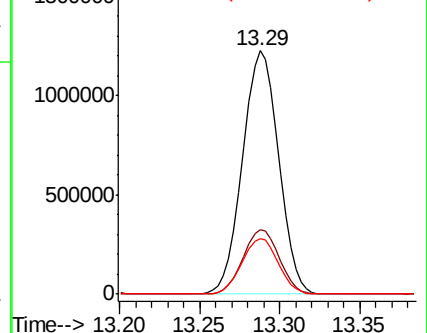
91 22.9 11.9 35.7

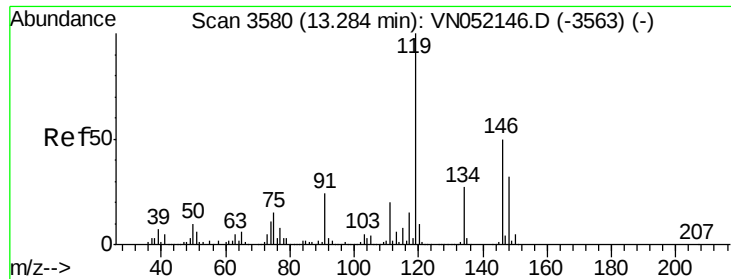


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





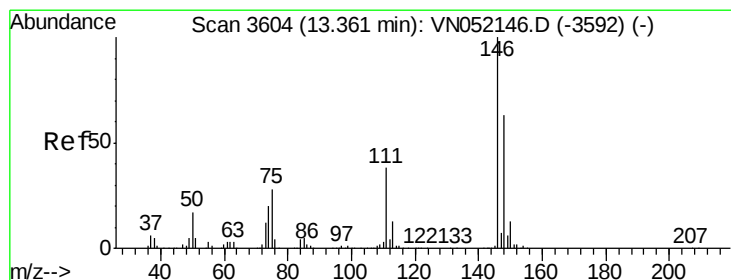
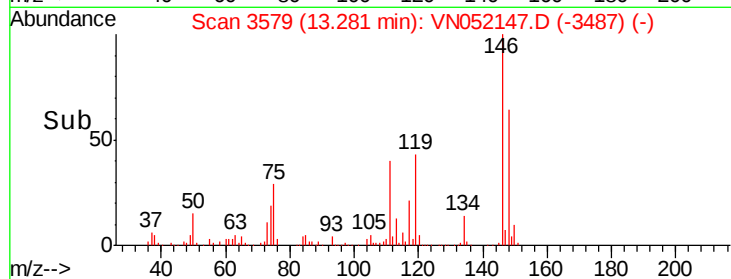
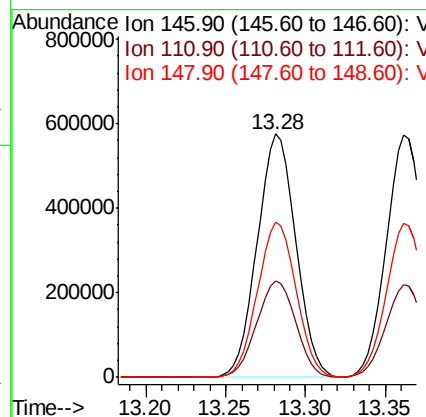
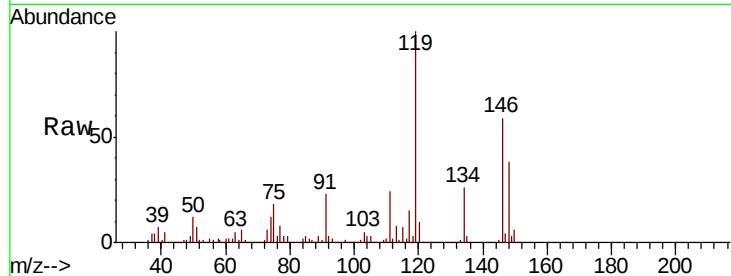
#87
 1,3-Dichlorobenzene
 Concen: 99.635 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
146	100	954749		
111	40.1	20.2	60.6	
148	64.0	32.1	96.3	

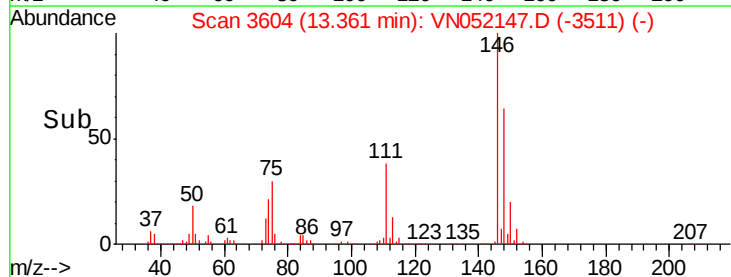
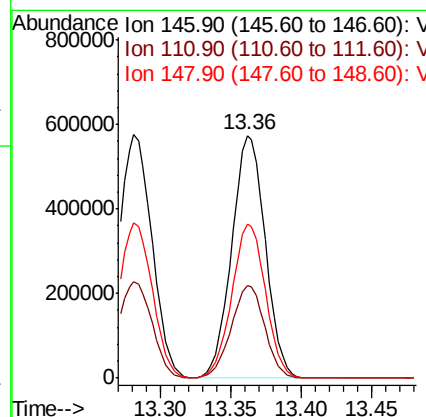
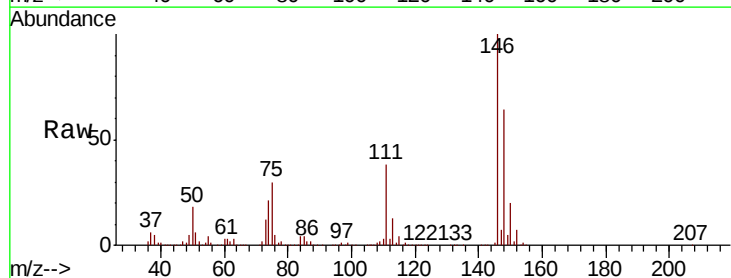
Manual Integrations
 APPROVED

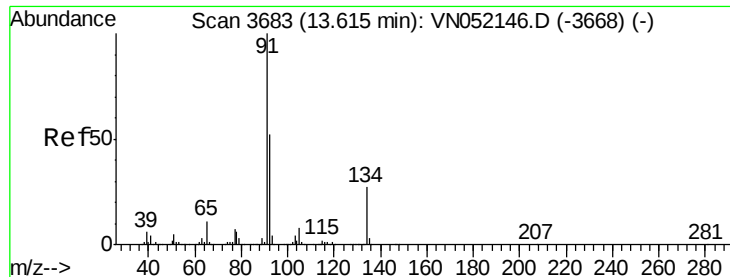
MMDadoda
 11/6/2018 9:59:58 AM



#88
 1,4-Dichlorobenzene
 Concen: 99.511 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	953103		
111	38.0	19.4	58.1	
148	63.6	31.5	94.5	





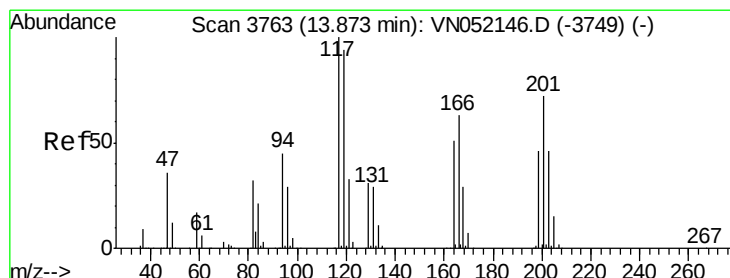
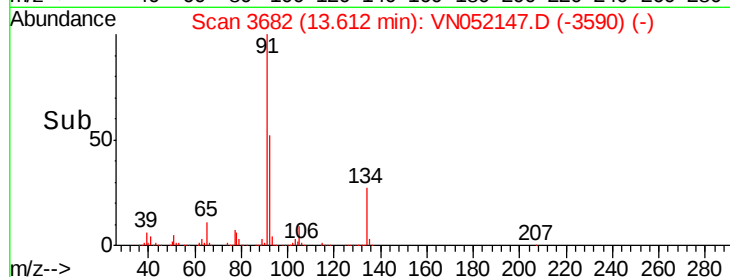
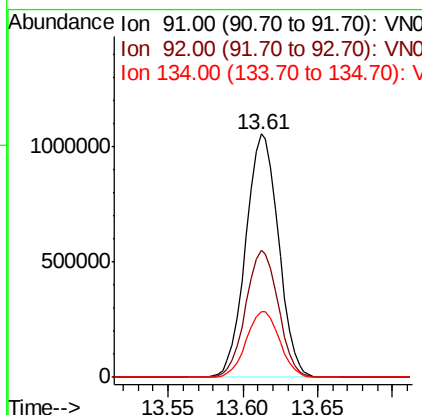
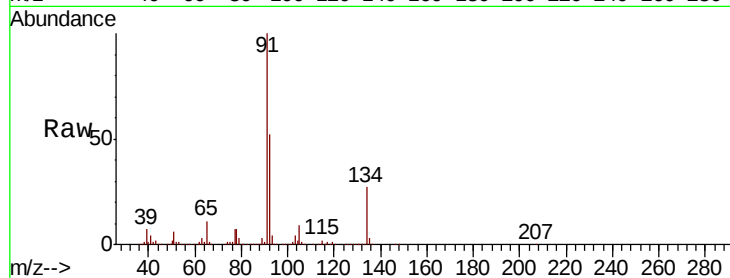
#89
n-Butylbenzene
Concen: 100.482 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.3	78.8
134	27.4	13.4	40.2

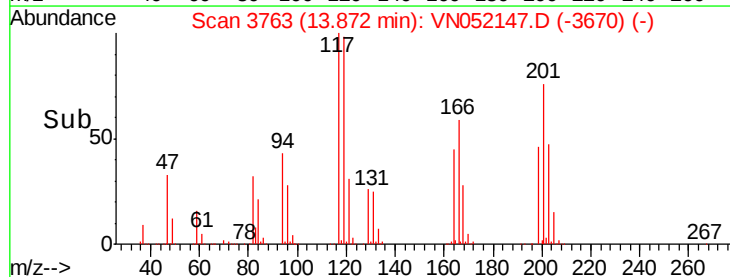
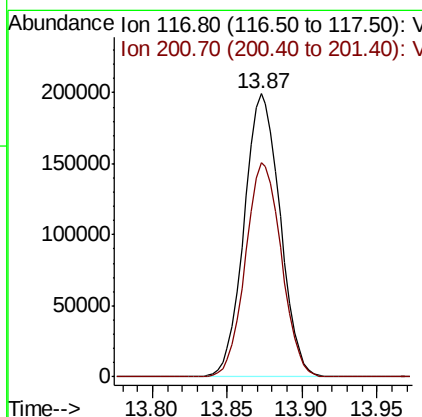
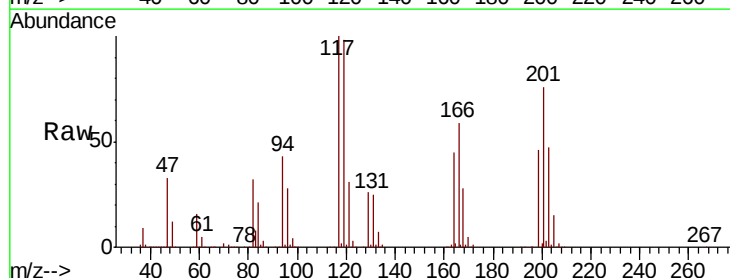
Manual Integrations
APPROVED

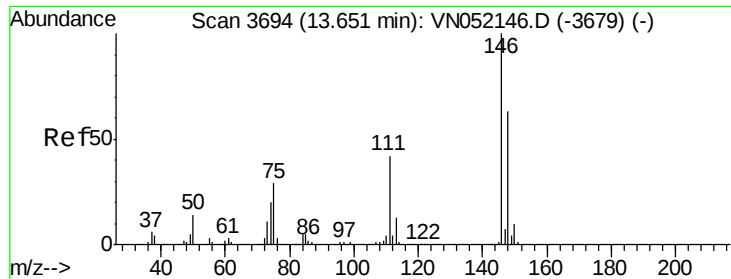
MMDadoda
11/6/2018 9:59:58 AM



#90
Hexachloroethane
Concen: 106.904 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN052147.D
Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.5	36.8	110.3





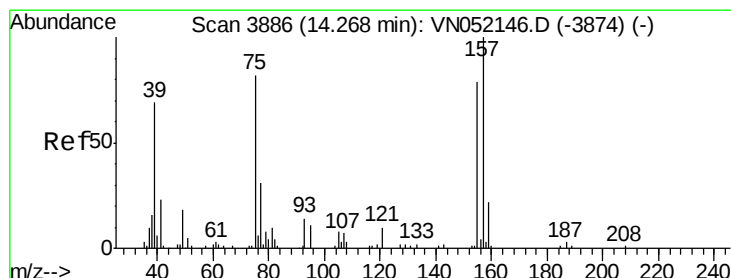
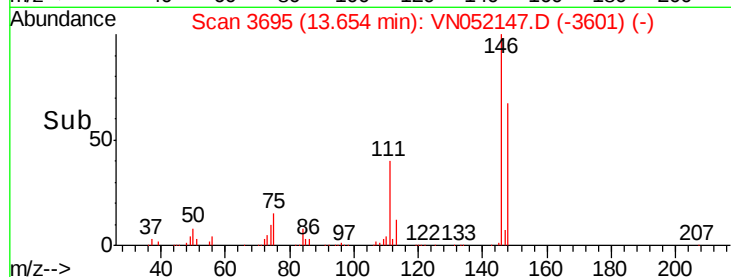
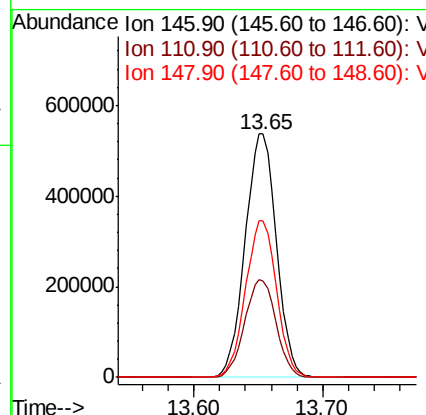
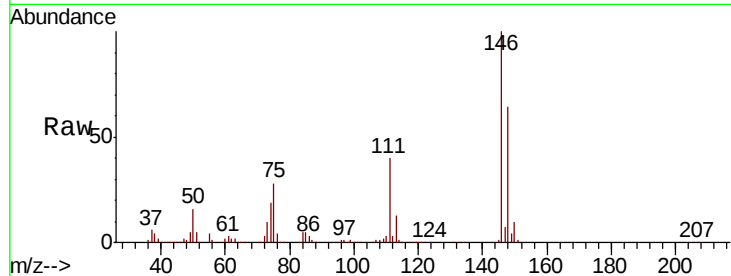
#91
 1,2-Dichlorobenzene
 Concen: 100.606 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	21.1	63.1
148	64.0	31.4	94.3

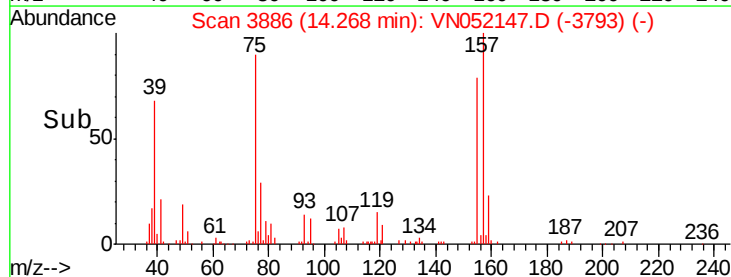
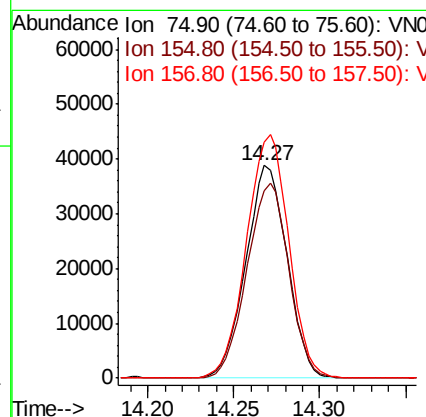
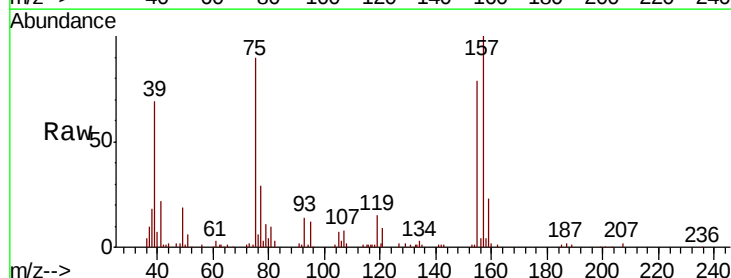
Manual Integrations
 APPROVED

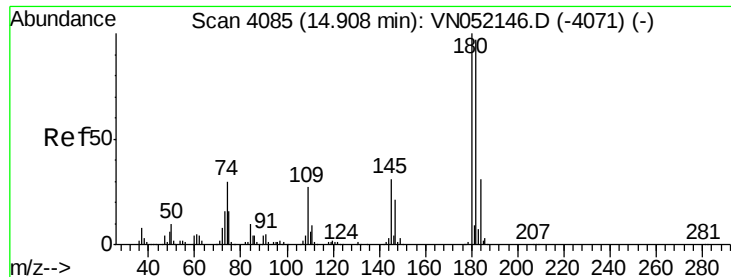
MMDadoda
 11/6/2018 9:59:58 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 98.541 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.5	47.4	142.2
157	117.0	60.3	180.8





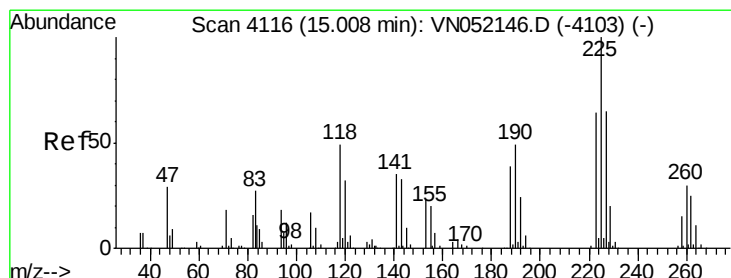
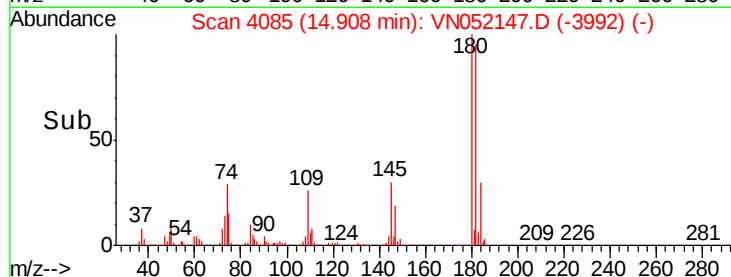
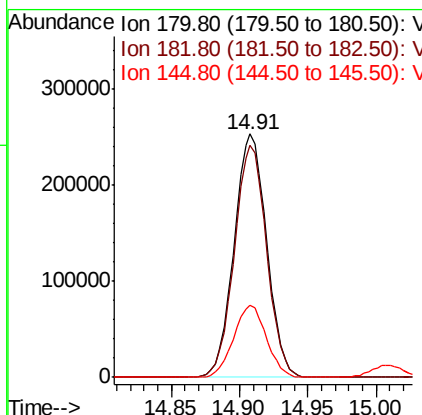
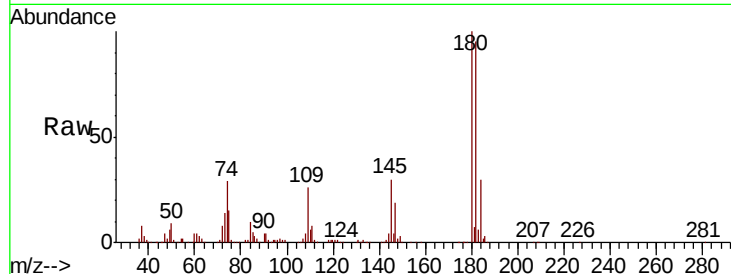
#93
 1,2,4-Trichlorobenzene
 Concen: 99.897 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.8	48.1	144.4	
145	30.0	15.3	45.9	

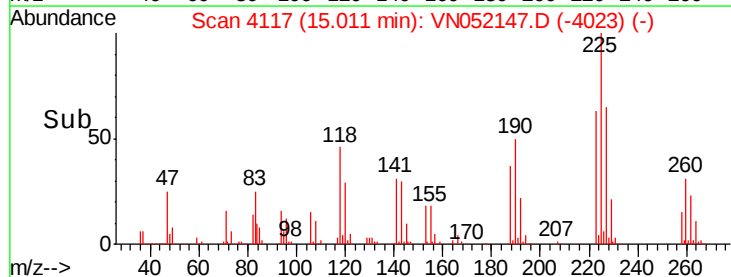
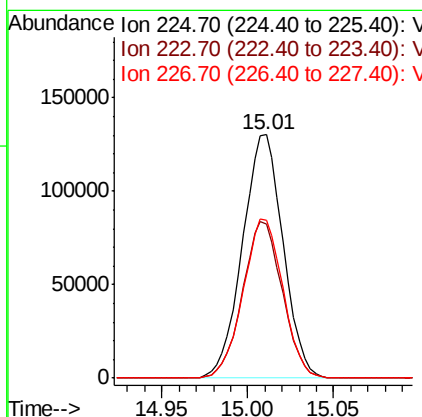
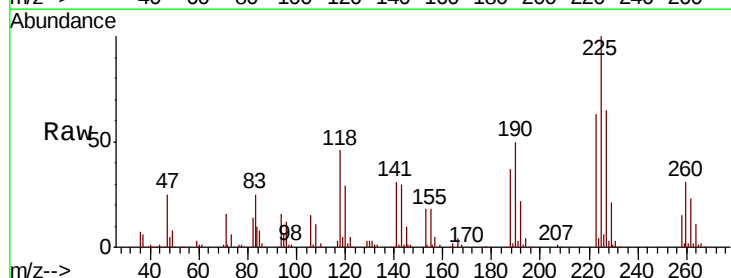
Manual Integrations
 APPROVED

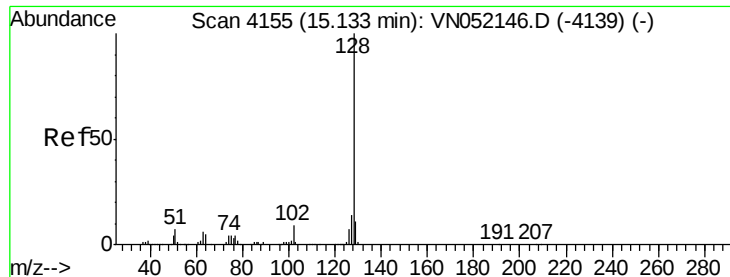
MMDadoda
 11/6/2018 9:59:58 AM



#94
 Hexachlorobutadiene
 Concen: 87.622 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052147.D
 Acq: 5 Nov 2018 14:29

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.1	32.3	96.8	
227	64.1	31.6	94.8	





#95

Naphthalene

Concen: 101.557 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Instrument :

MSVOA_N

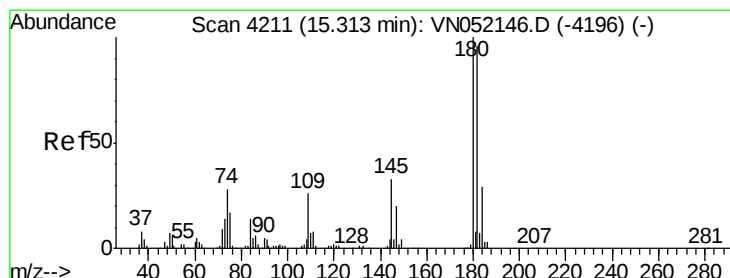
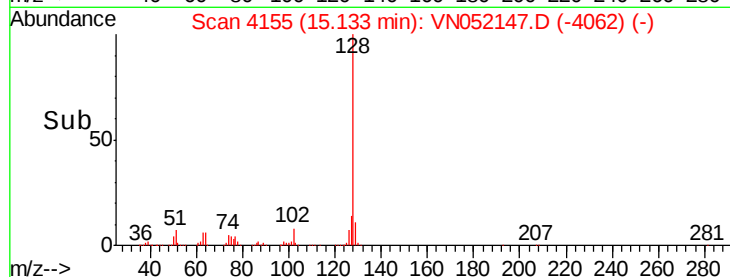
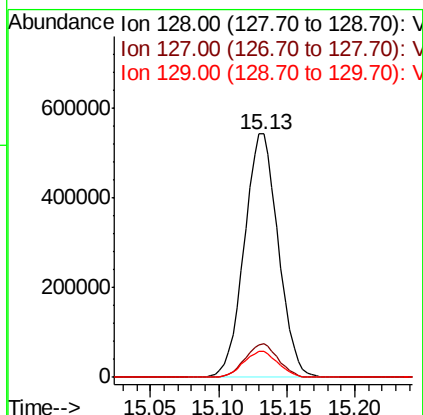
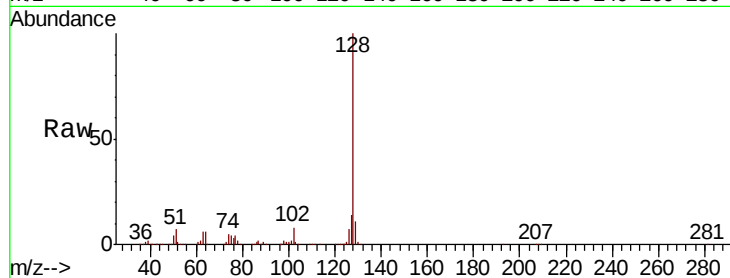
ClientSampleId :

VSTDIC100

Tot Ion:	128	Resp:	935289
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.8	16.2
129	10.8	9.1	13.7

Manual Integrations
APPROVED

MMDadoda
11/6/2018 9:59:58 AM



#96

1,2,3-Trichlorobenzene

Concen: 97.459 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN052147.D

Acq: 5 Nov 2018 14:29

Tgt Ion:	180	Resp:	360955
Ion Ratio	Lower	Upper	
180	100		
182	95.2	46.6	139.7
145	32.9	16.7	50.0

