

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050724.D
 Acq On : 17 Aug 2018 12:44
 Operator : MD\SY
 Sample : VN0817WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBS02

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:57 AM

Quant Time: Aug 18 00:09:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	607370	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	887637	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	808609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	392930	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	387506	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
35) Dibromofluoromethane	7.59	113	363513	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
50) Toluene-d8	10.09	98	1359727	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.40	95	426393	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	127357	18.60	ug/l	99
3) Chloromethane	2.06	50	162676	19.19	ug/l	100
4) Vinyl Chloride	2.18	62	166106	18.26	ug/l	98
5) Bromomethane	2.56	94	94341	17.96	ug/l	100
6) Chloroethane	2.70	64	102561	19.32	ug/l	97
7) Trichlorofluoromethane	3.01	101	222149	18.61	ug/l	98
8) Diethyl Ether	3.41	74	77398	19.50	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	138030	19.12	ug/l	99
10) Methyl Iodide	3.95	142	79531	20.30	ug/l	99
11) Tert butyl alcohol	4.79	59	43492	104.04	ug/l	99
12) 1,1-Dichloroethene	3.73	96	122231	18.55	ug/l	99
13) Acrolein	3.61	56	9870	54.11	ug/l	99
14) Allyl chloride	4.33	41	193729	18.90	ug/l	99
15) Acrylonitrile	4.99	53	227779	99.21	ug/l	100
16) Acetone	3.82	43	199436	103.48	ug/l	96
17) Carbon Disulfide	4.05	76	364595	17.58	ug/l	100
18) Methyl Acetate	4.33	43	116896	21.17	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	329653	19.65	ug/l	99
20) Methylene Chloride	4.55	84	150078	19.86	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	133312	18.66	ug/l	96
22) Diisopropyl ether	5.96	45	426820	20.31	ug/l	97
23) Vinyl Acetate	5.90	43	1358706	98.82	ug/l	99
24) 1,1-Dichloroethane	5.85	63	258857	19.03	ug/l	98
25) 2-Butanone	6.84	43	313615	99.91	ug/l	99
26) 2,2-Dichloropropane	6.83	77	197698	21.72	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	149964	18.85	ug/l	97
28) Bromochloromethane	7.20	49	117734	19.02	ug/l	100
29) Tetrahydrofuran	7.22	42	169532	103.44	ug/l	98
30) Chloroform	7.37	83	261121	18.95	ug/l	99
31) Cyclohexane	7.65	56	221854	18.90	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	216736	18.68	ug/l	99
36) 1,1-Dichloropropene	7.79	75	193411	19.57	ug/l	99
37) Ethyl Acetate	6.93	43	117937	21.12	ug/l #	93
38) Carbon Tetrachloride	7.78	117	194792	19.00	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050724.D
 Acq On : 17 Aug 2018 12:44
 Operator : MD\SY
 Sample : VN0817WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0817WBS02

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:57 AM

Quant Time: Aug 18 00:09:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	195485	19.11	ug/l	98
40) Benzene	8.04	78	595000	19.79	ug/l	99
41) Methacrylonitrile	7.18	41	61459	20.35	ug/l #	90
42) 1,2-Dichloroethane	8.13	62	182081	19.76	ug/l	100
43) Isopropyl Acetate	8.17	43	201349	19.78	ug/l	99
44) Trichloroethene	8.84	130	153564	19.07	ug/l	99
45) 1,2-Dichloropropane	9.12	63	156581	19.57	ug/l	97
46) Dibromomethane	9.21	93	92229	19.52	ug/l	99
47) Bromodichloromethane	9.40	83	193211	19.13	ug/l	99
48) Methyl methacrylate	9.20	41	96445	18.83	ug/l	97
49) 1,4-Dioxane	9.20	88	27697	410.49	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	724709	105.27	ug/l	99
52) Toluene	10.16	92	363111	20.23	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	185476	19.72	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	219808	20.37	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	132983	19.83	ug/l	99
56) Ethyl methacrylate	10.43	69	154398	19.27	ug/l	100
57) 1,3-Dichloropropane	10.71	76	220646	20.07	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	365225	95.84	ug/l	100
59) 2-Hexanone	10.75	43	457225	102.91	ug/l	99
60) Dibromochloromethane	10.90	129	146893	19.85	ug/l	99
61) 1,2-Dibromoethane	11.01	107	125910	19.72	ug/l	100
64) Tetrachloroethene	10.63	164	141524	18.85	ug/l	99
65) Chlorobenzene	11.44	112	392525	19.51	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	145464	19.28	ug/l	100
67) Ethyl Benzene	11.51	91	643845	19.81	ug/l	100
68) m/p-Xylenes	11.62	106	502879	40.46	ug/l	99
69) o-Xylene	11.95	106	239481	20.21	ug/l	100
70) Styrene	11.96	104	382599	18.75	ug/l	99
71) Bromoform	12.13	173	98243	19.64	ug/l #	100
73) Isopropylbenzene	12.25	105	626168	20.40	ug/l	100
74) N-amyl acetate	12.07	43	158876	19.89	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	164725	21.80	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	136113m	20.84	ug/l	
77) Bromobenzene	12.53	156	166445	19.97	ug/l	99
78) n-propylbenzene	12.59	91	713448	20.84	ug/l	99
79) 2-Chlorotoluene	12.68	91	434349	20.35	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	528010	21.48	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	36312	20.55	ug/l	98
82) 4-Chlorotoluene	12.77	91	433757	20.57	ug/l	100
83) tert-Butylbenzene	12.99	119	448118	21.00	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	524782	21.27	ug/l	100
85) sec-Butylbenzene	13.17	105	581633	20.86	ug/l	100
86) p-Isopropyltoluene	13.29	119	498596	21.10	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	276870	19.51	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	267715	19.01	ug/l	100
89) n-Butylbenzene	13.62	91	370554	19.42	ug/l	97
90) Hexachloroethane	13.88	117	92428	19.46	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	271789	19.63	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	21786	19.89	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
Data File : VN050724.D
Acq On : 17 Aug 2018 12:44
Operator : MD\SY
Sample : VN0817WBS02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM

Quant Time: Aug 18 00:09:56 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	107397	16.98	ug/l	99
94) Hexachlorobutadiene	15.01	225	83129	19.59	ug/l	98
95) Naphthalene	15.14	128	200372	16.09	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	109326	17.77	ug/l	100

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

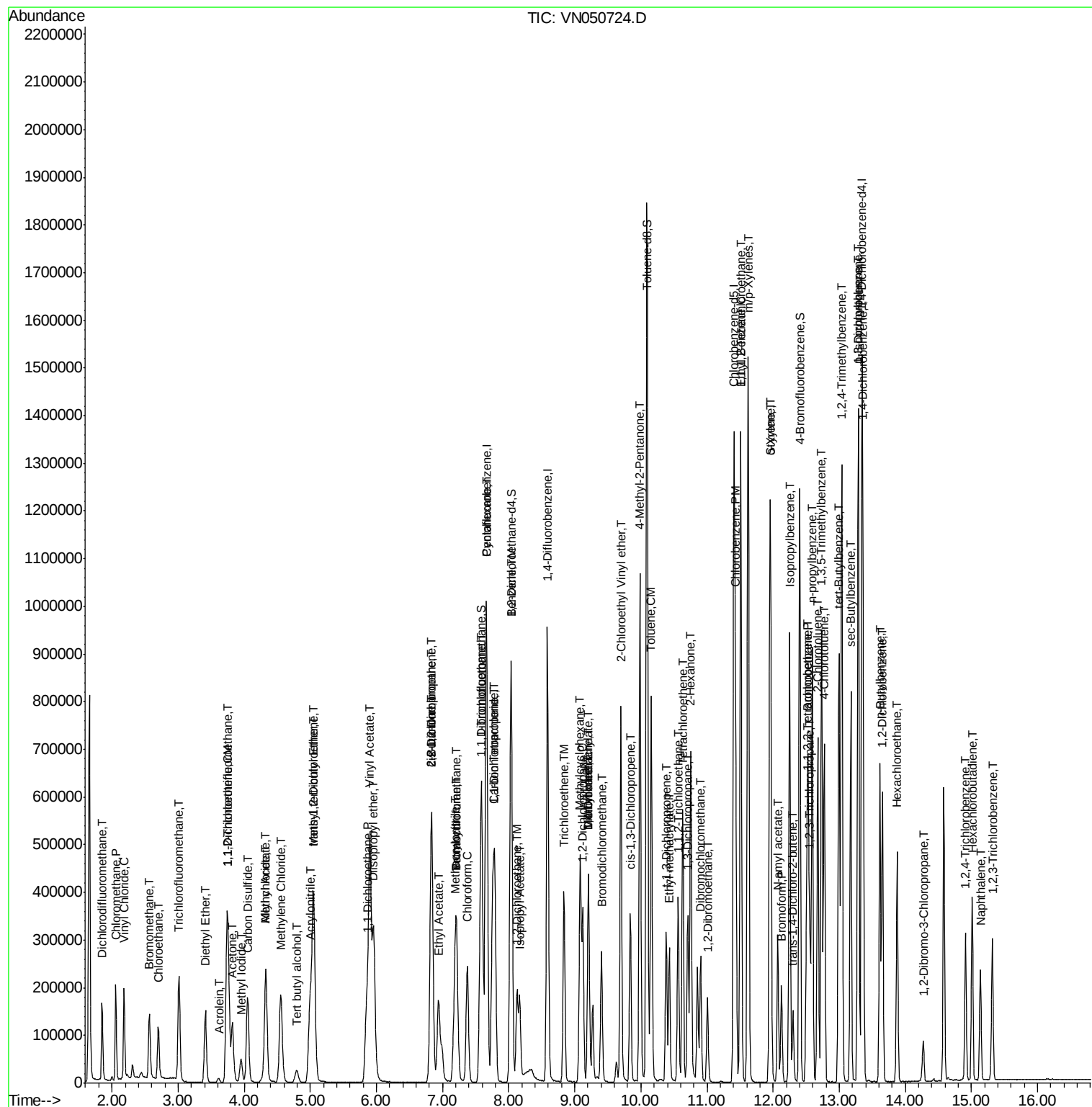
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050724.D
 Acq On : 17 Aug 2018 12:44
 Operator : MD\SY
 Sample : VN0817WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

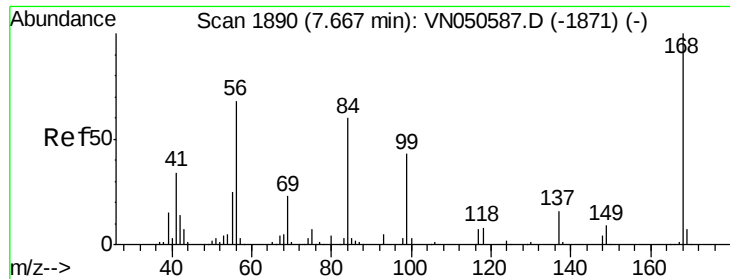
Instrument :
 MSVOA_N
 Client Sample Id :
 VN0817WBS02

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:57 AM

Quant Time: Aug 18 00:09:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion:168 Resp: 607370

Ion Ratio Lower Upper

168 100

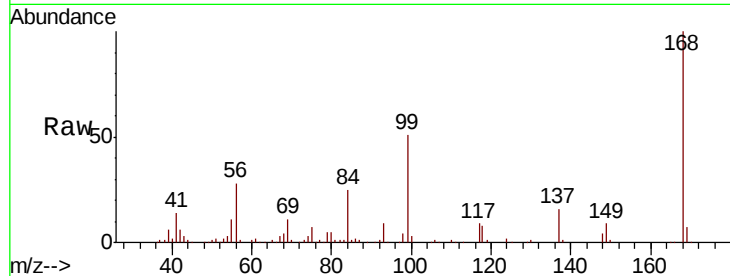
99 50.6 40.8 61.2

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

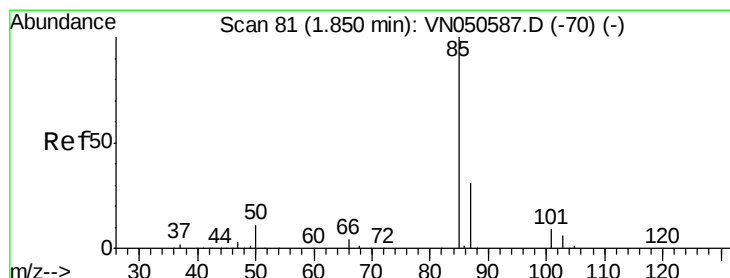
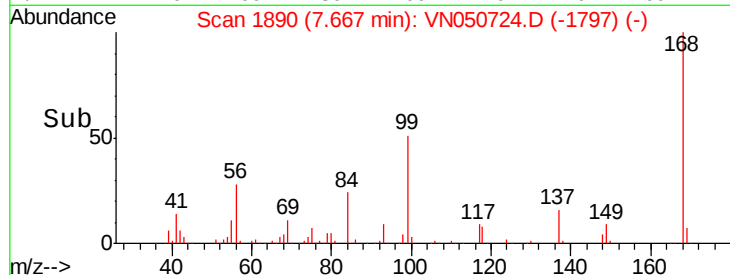
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.60 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050724.D

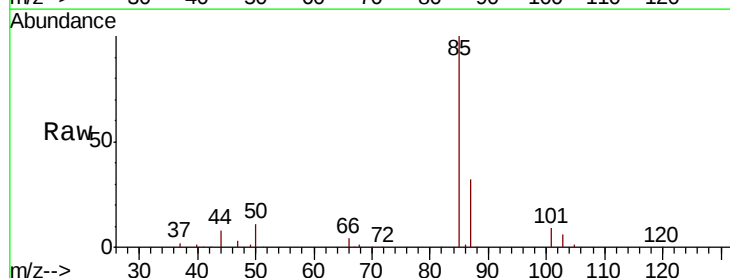
Acq: 17 Aug 2018 12:44

Tgt Ion: 85 Resp: 127357

Ion Ratio Lower Upper

85 100

87 32.3 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

100000

80000

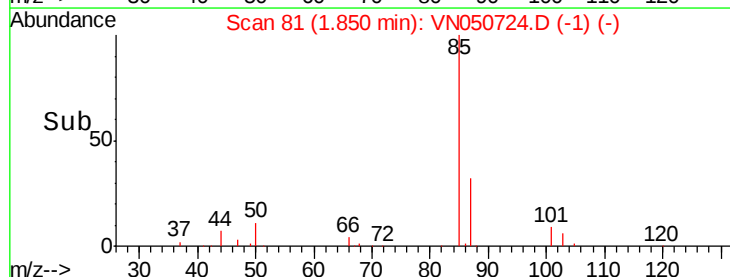
60000

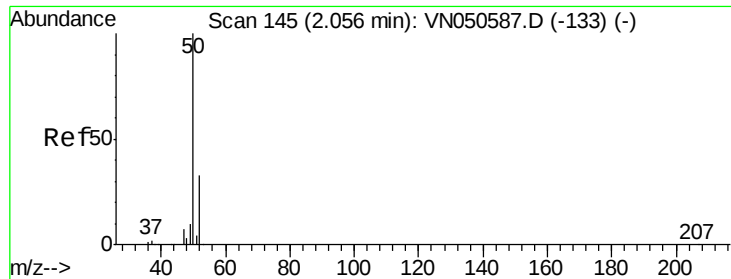
40000

20000

0

Time-->





#3

Chloromethane

Concen: 19.19 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampled :

VN0817WBS02

Tot Ion: 50 Resp: 162676

Ion Ratio Lower Upper

50 100

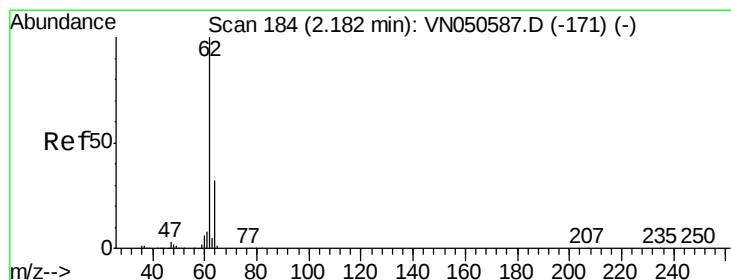
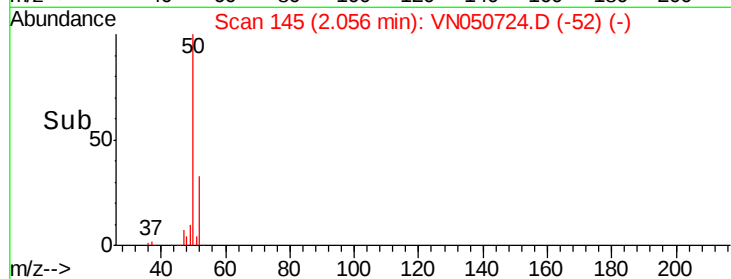
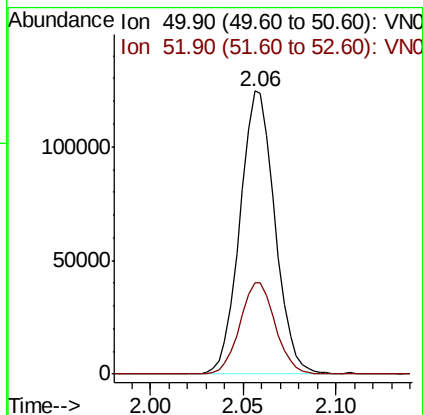
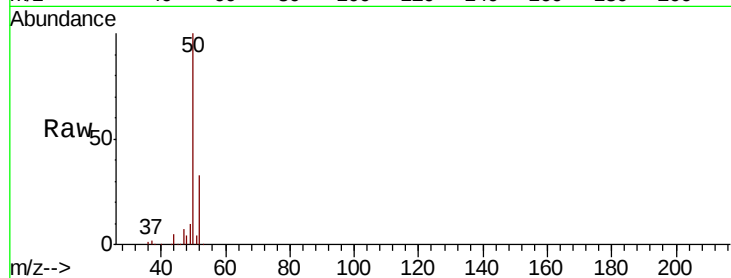
52 32.5 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



#4

Vinyl Chloride

Concen: 18.26 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050724.D

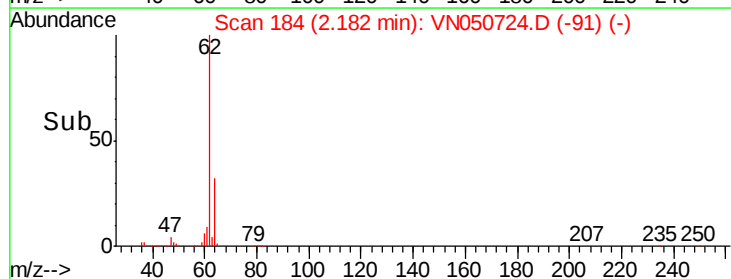
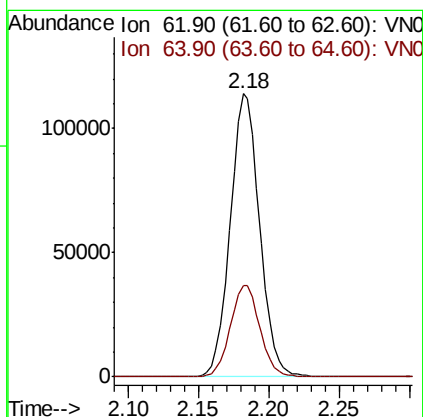
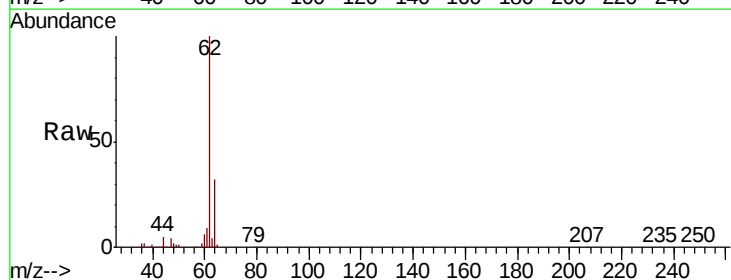
Acq: 17 Aug 2018 12:44

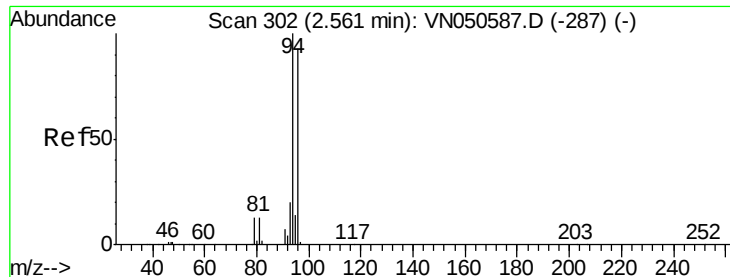
Tgt Ion: 62 Resp: 166106

Ion Ratio Lower Upper

62 100

64 32.4 25.2 37.8





#5

Bromomethane

Concen: 17.96 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 94 Resp: 94341

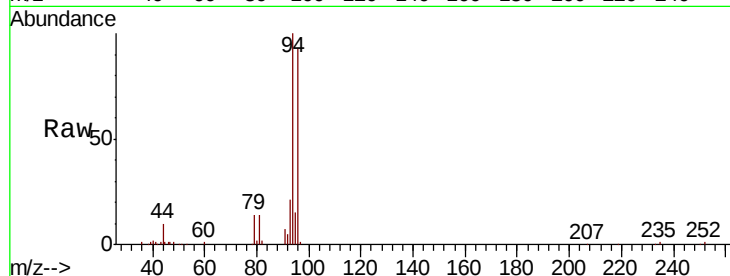
Ion Ratio Lower Upper

94 100

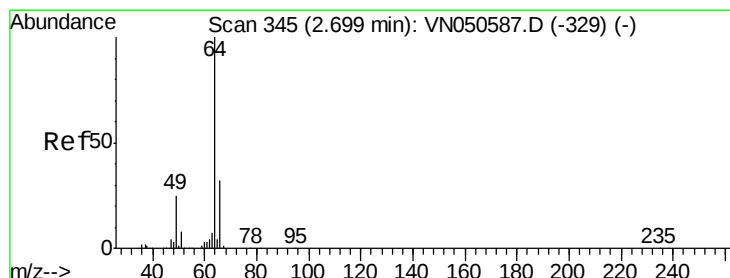
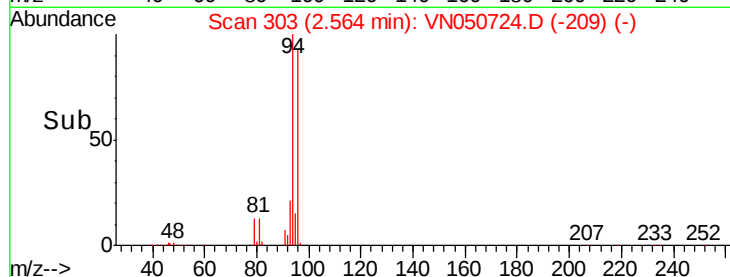
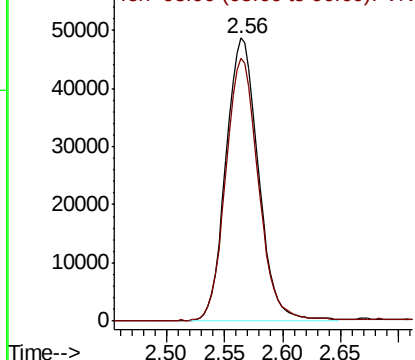
96 92.4 74.0 111.0

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 19.32 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050724.D

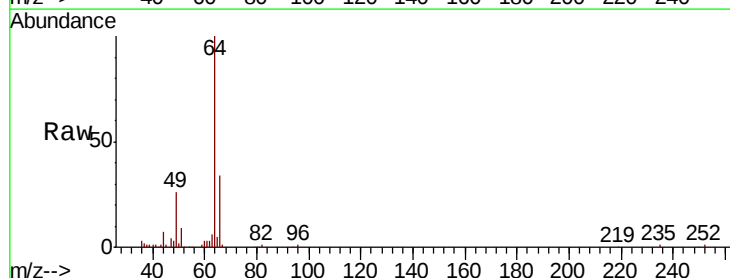
Acq: 17 Aug 2018 12:44

Tgt Ion: 64 Resp: 102561

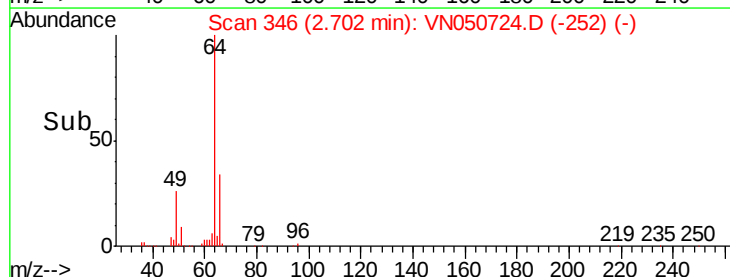
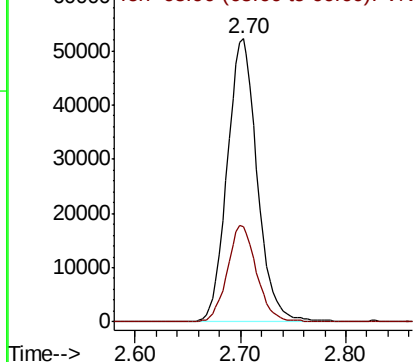
Ion Ratio Lower Upper

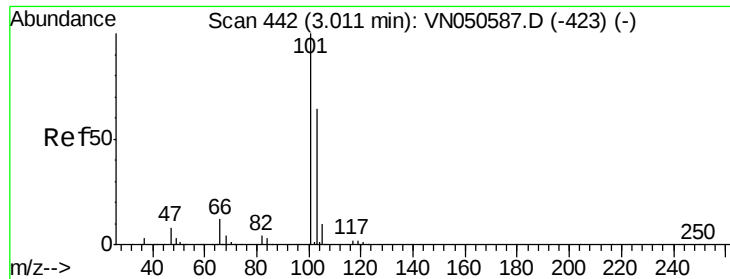
64 100

66 33.6 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO
Ion 65.90 (65.60 to 66.60): VNO





#7

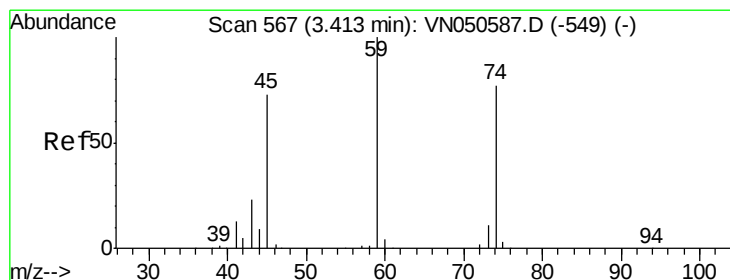
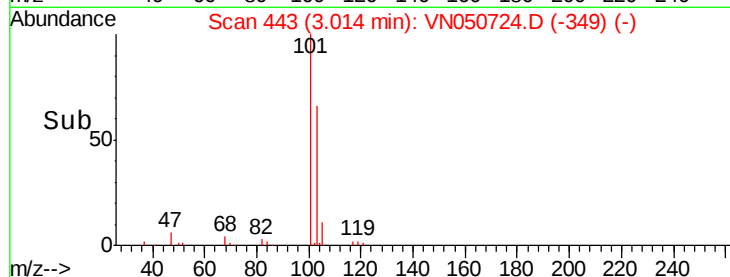
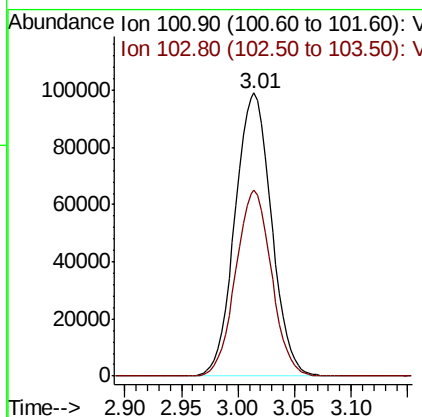
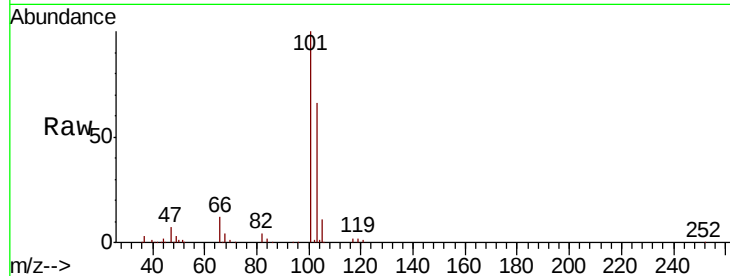
Trichlorofluoromethane
 Concen: 18.61 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	51.4	77.0

Manual Integrations
 APPROVED

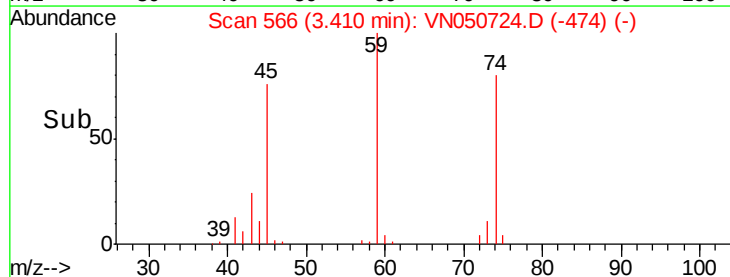
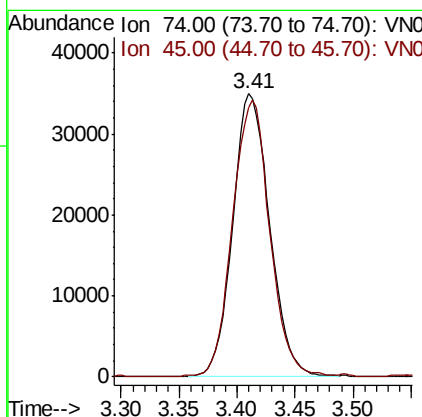
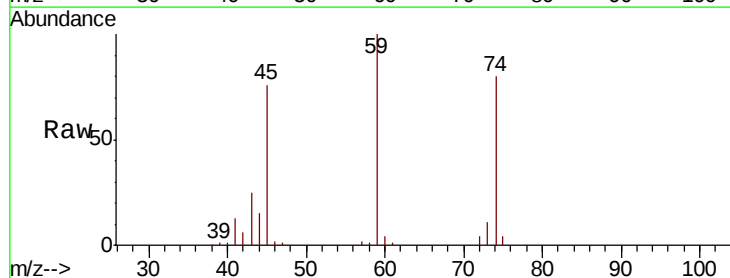
MMDadoda
 8/20/2018 10:52:57 AM

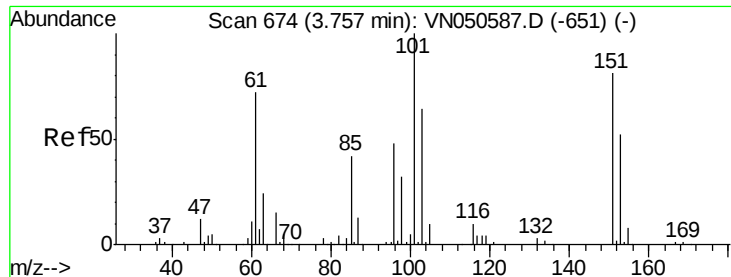


#8

Diethyl Ether
 Concen: 19.50 ug/l
 RT: 3.41 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.7	48.0	144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.12 ug/l

RT: 3.76 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

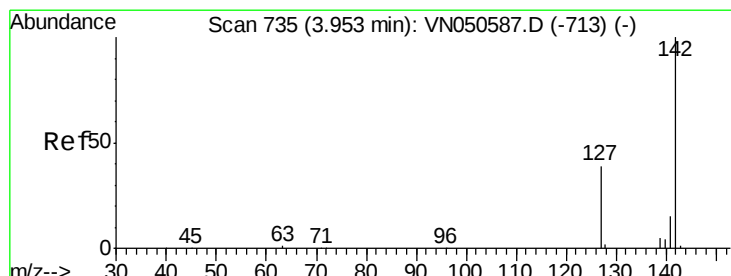
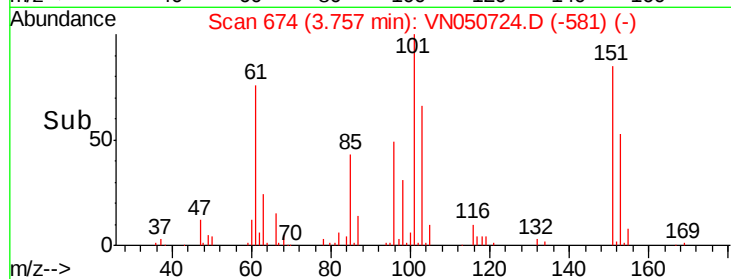
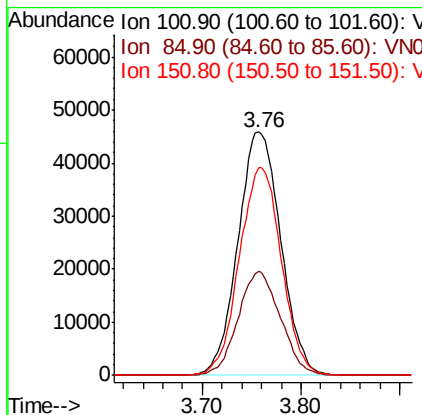
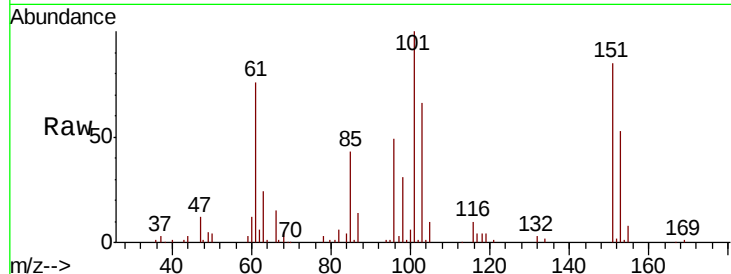
ClientSampleId :

VN0817WBS02

Tot Ion:	101	Resp:	138030
Ion Ratio	Lower	Upper	
101	100		
85	42.0	33.4	50.0
151	83.9	66.6	100.0

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#10

Methyl Iodide

Concen: 20.30 ug/l

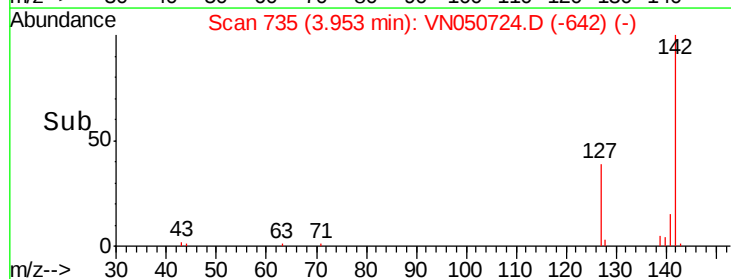
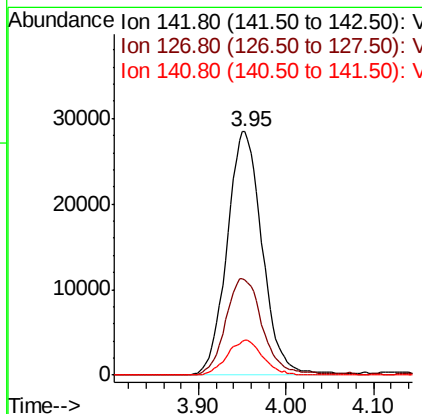
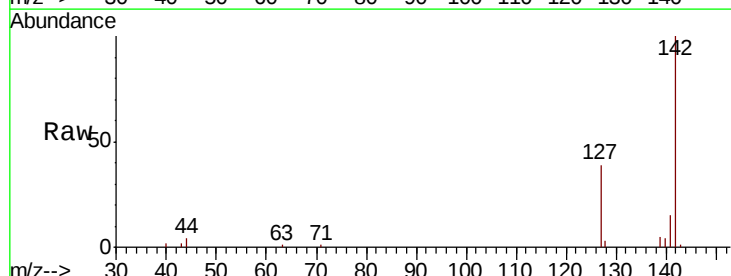
RT: 3.95 min Scan# 735

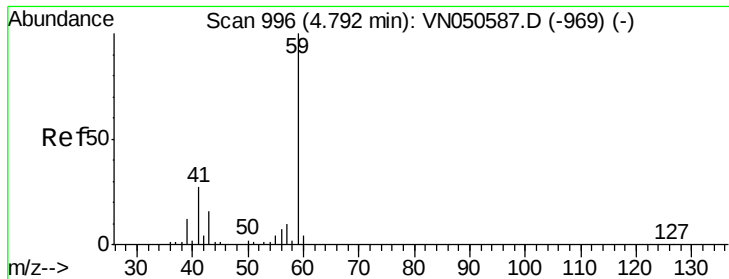
Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	142	Resp:	79531
Ion Ratio	Lower	Upper	
142	100		
127	41.6	32.6	49.0
141	14.5	11.5	17.3





#11

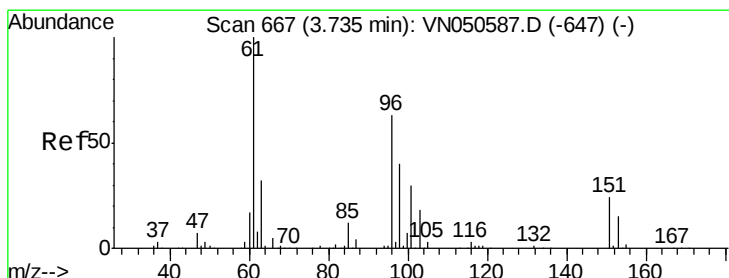
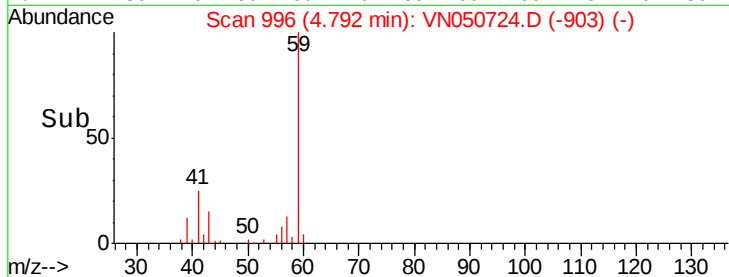
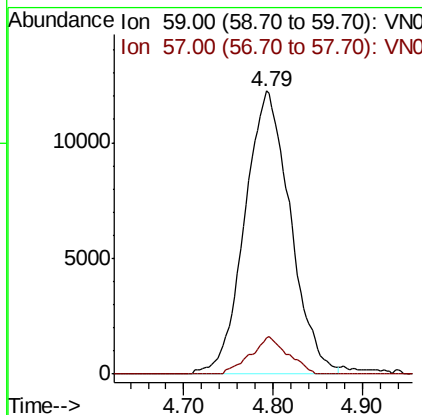
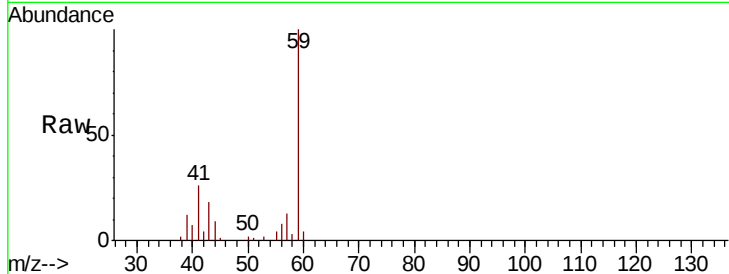
Tert butyl alcohol
 Concen: 104.04 ug/l
 RT: 4.79 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampled :
 VN0817WBS02

Tot Ion	59	Resp	43492
Ion Ratio	100	Lower	Upper
57	10.8	8.4	12.6

Manual Integrations
 APPROVED

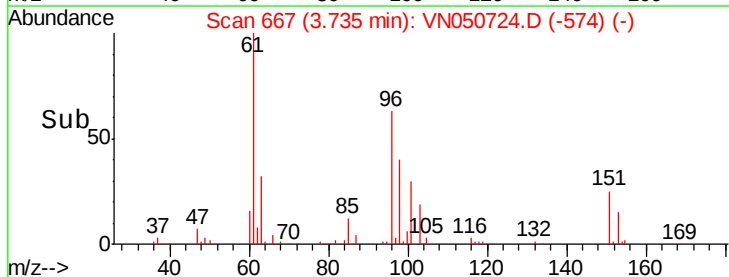
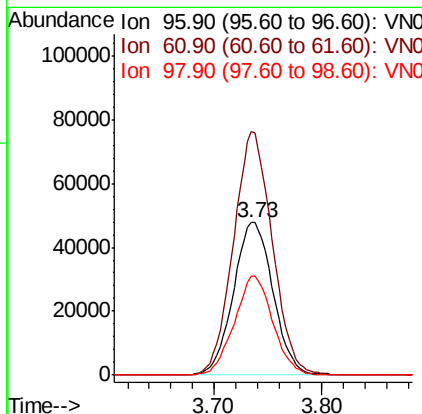
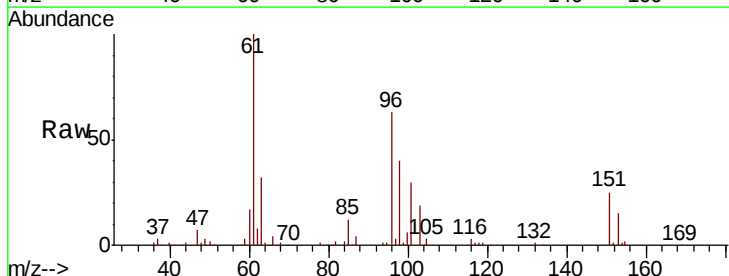
MMDadoda
 8/20/2018 10:52:57 AM

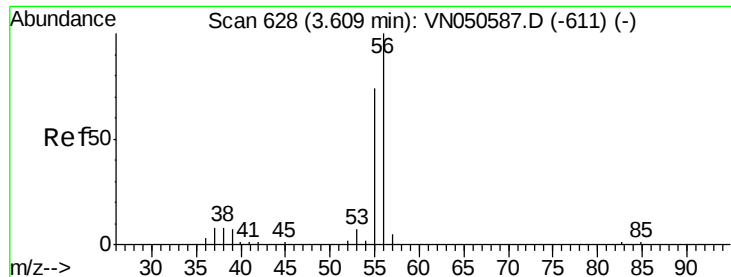


#12

1,1-Dichloroethene
 Concen: 18.55 ug/l
 RT: 3.73 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	96	Resp	122231
Ion Ratio	100	Lower	Upper
61	159.3	126.9	190.3
98	64.5	51.1	76.7





#13

Acrolein

Concen: 54.11 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 56 Resp: 9870

Ion Ratio Lower Upper

56 100

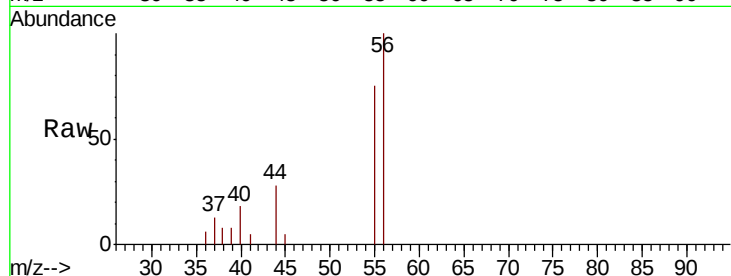
55 71.2 56.3 84.5

Manual Integrations

APPROVED

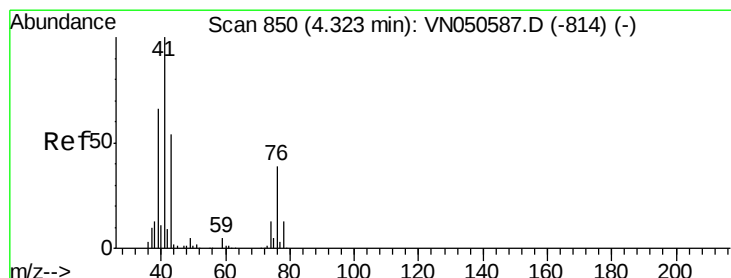
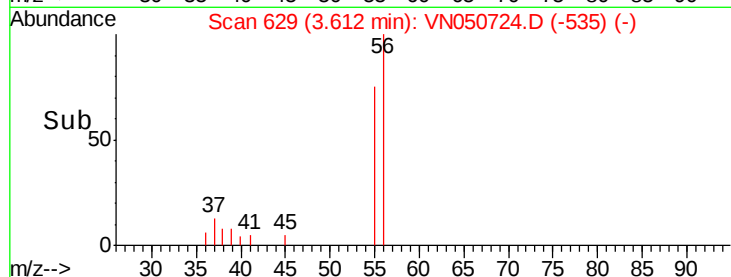
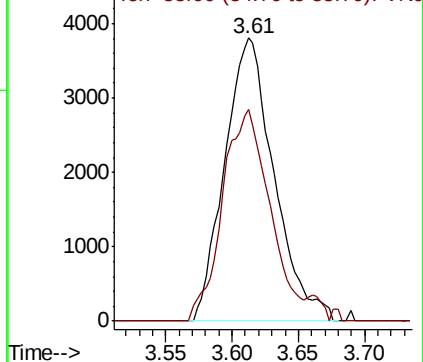
MMDadoda

8/20/2018 10:52:57 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.90 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

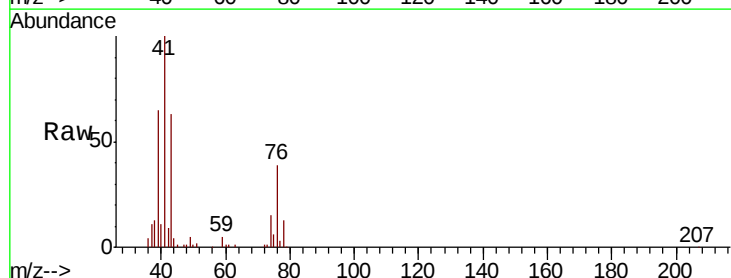
Tgt Ion: 41 Resp: 193729

Ion Ratio Lower Upper

41 100

39 62.8 51.4 77.0

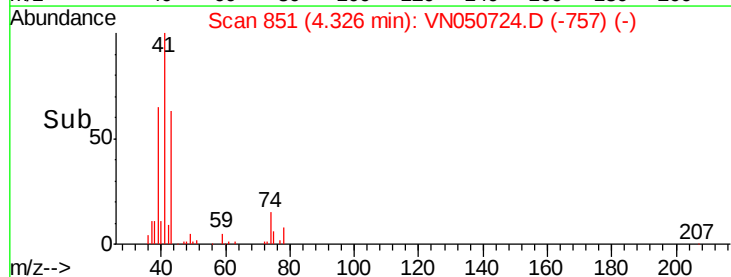
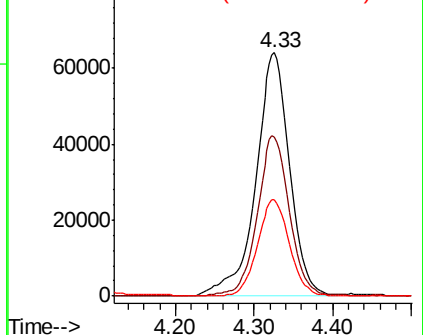
76 36.7 29.4 44.0

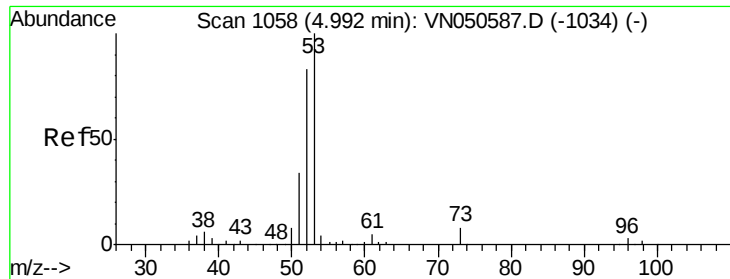


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 99.21 ug/l

RT: 4.99 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

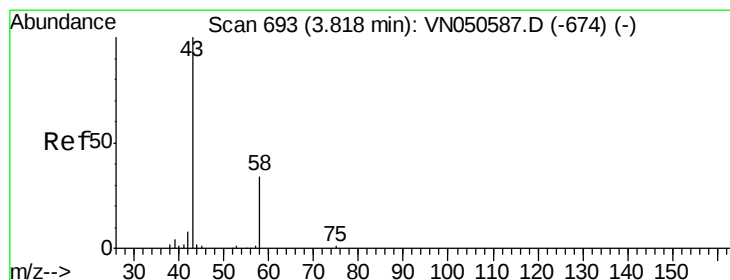
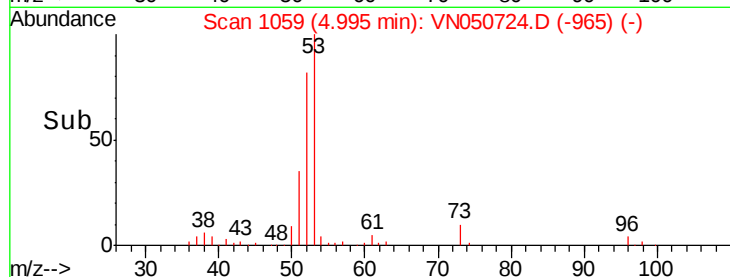
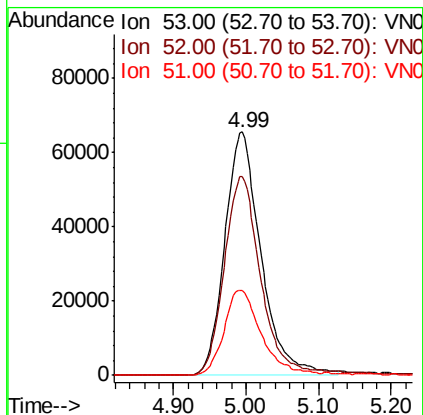
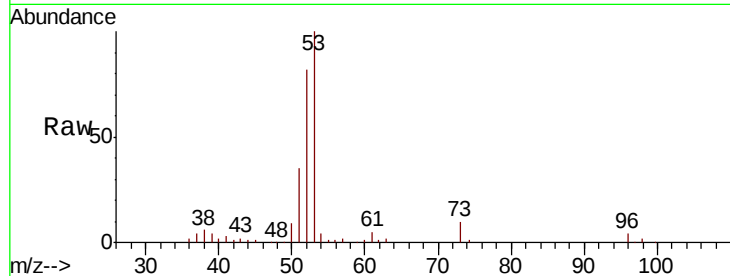
ClientSampleId :

VN0817WBS02

Tot Ion:	53	Resp:	227779
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.2	99.2
51	36.0	28.6	43.0

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#16

Acetone

Concen: 103.48 ug/l

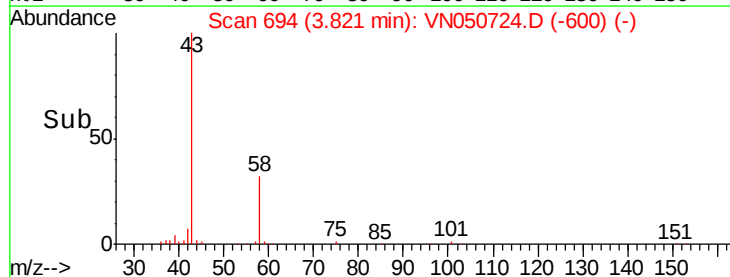
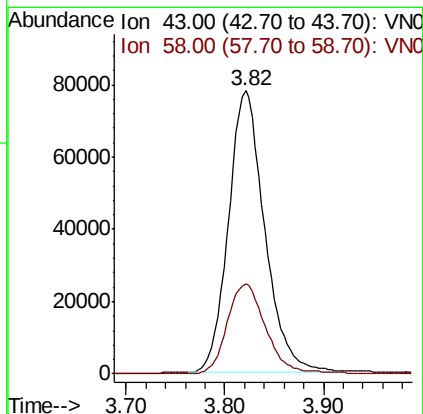
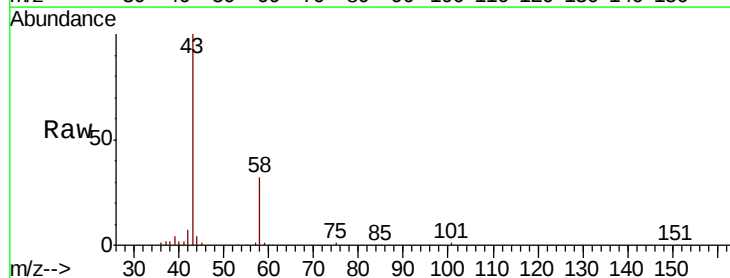
RT: 3.82 min Scan# 694

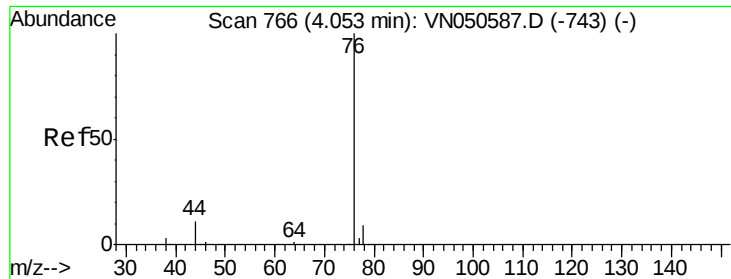
Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	43	Resp:	199436
Ion	Ratio	Lower	Upper
43	100		
58	31.7	27.1	40.7





#17

Carbon Disulfide

Concen: 17.58 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 76 Resp: 364595

Ion Ratio Lower Upper

76 100

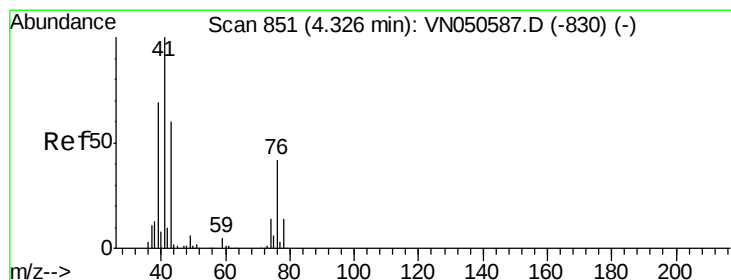
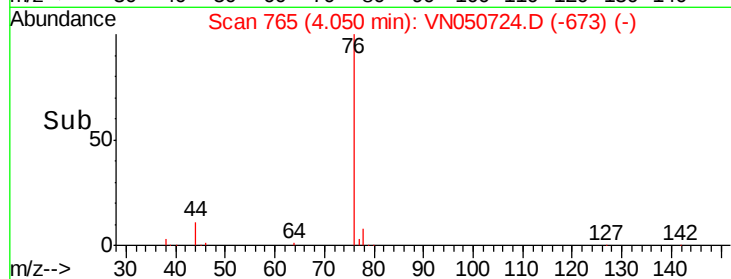
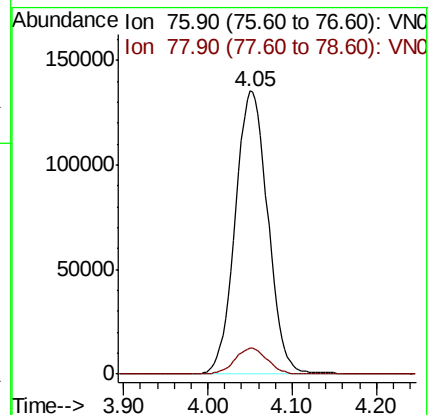
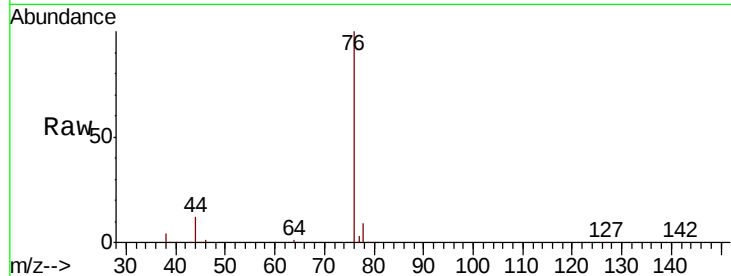
78 9.2 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



#18

Methyl Acetate

Concen: 21.17 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050724.D

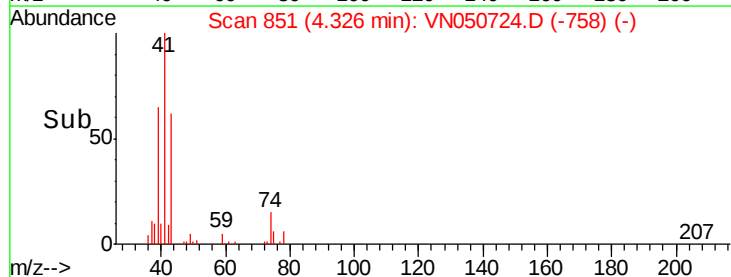
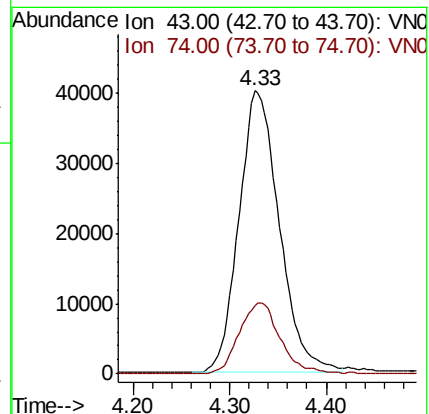
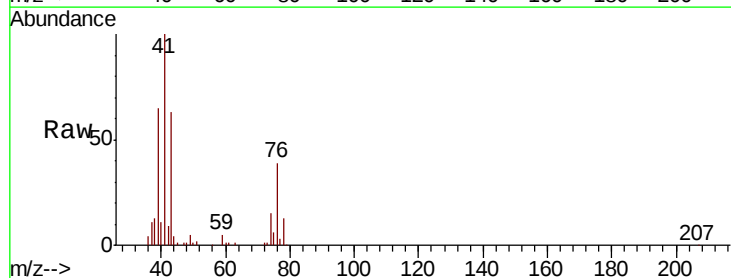
Acq: 17 Aug 2018 12:44

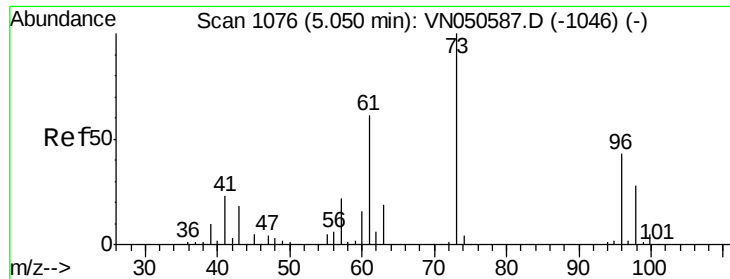
Tgt Ion: 43 Resp: 116896

Ion Ratio Lower Upper

43 100

74 25.4 19.7 29.5





#19

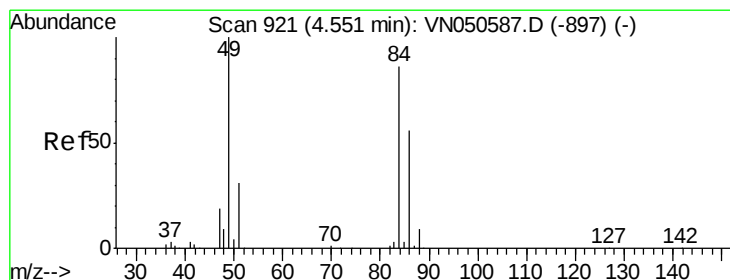
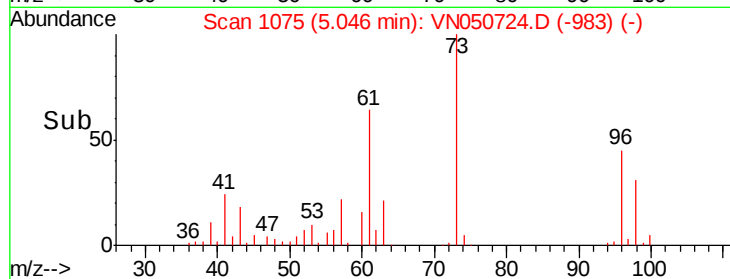
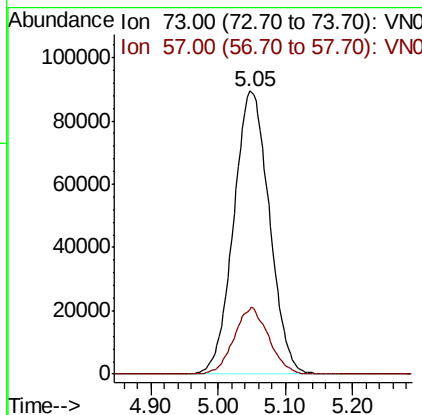
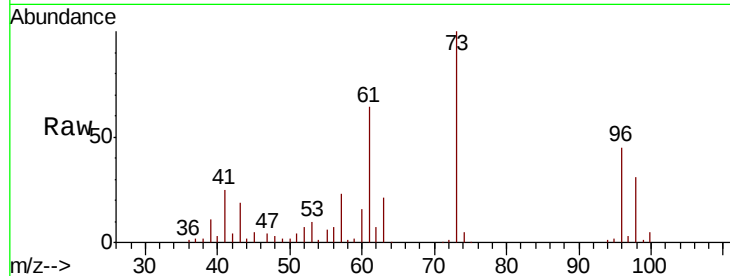
Methyl tert-butyl Ether
 Concen: 19.65 ug/l
 RT: 5.05 min Scan# 1075
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0817WBS02

Tot Ion	73	Resp	329653
Ion Ratio	100	Lower	Upper
57	22.7	17.9	26.9

Manual Integrations
 APPROVED

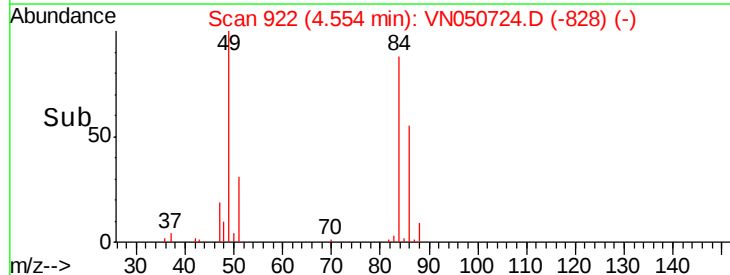
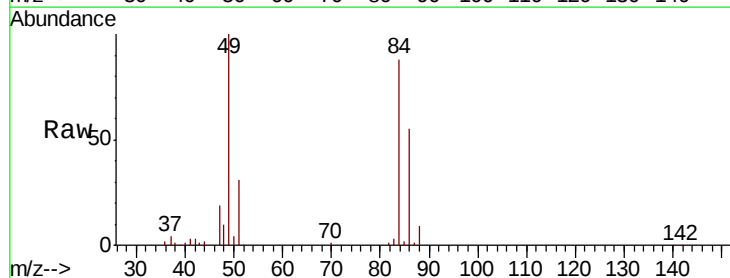
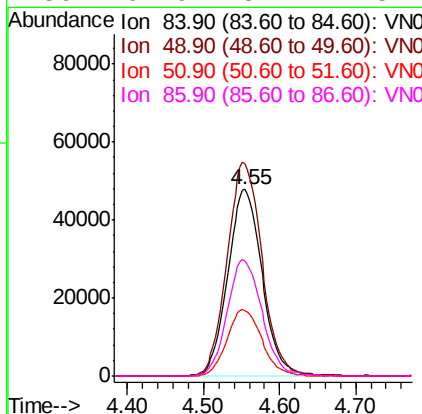
MMDadoda
 8/20/2018 10:52:57 AM

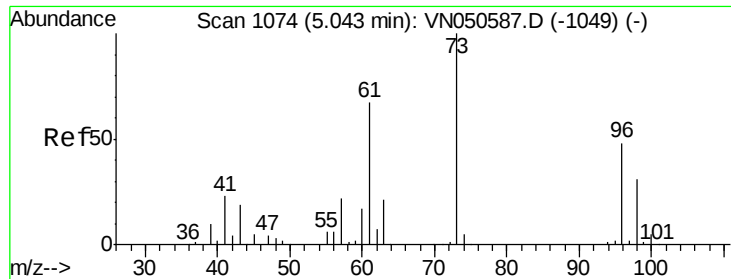


#20

Methylene Chloride
 Concen: 19.86 ug/l
 RT: 4.55 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	84	Resp	150078
Ion Ratio	100	Lower	Upper
49	113.6	92.6	138.8
51	35.2	28.6	43.0
86	61.9	52.2	78.2





#21

trans-1,2-Dichloroethene

Concen: 18.66 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

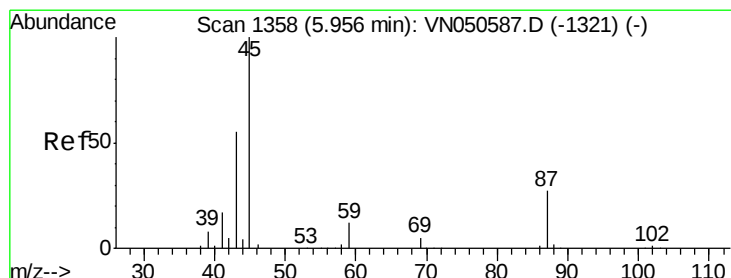
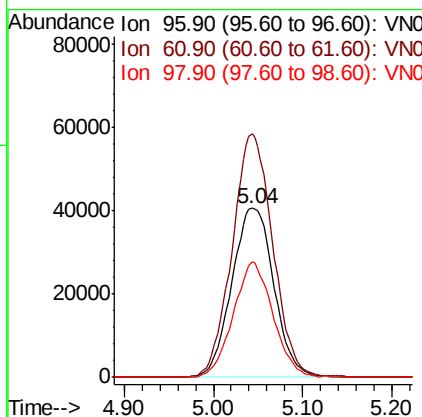
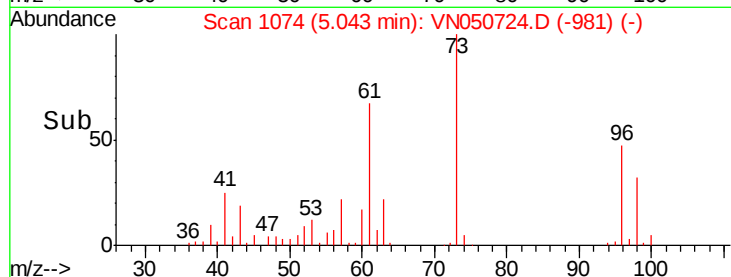
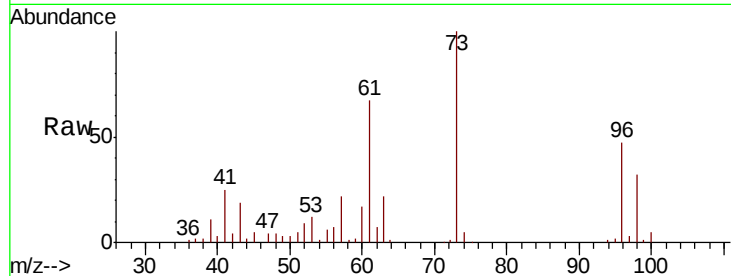
ClientSampleId :

VN0817WBS02

Tot Ion:	96	Resp:	133312
Ion	Ratio	Lower	Upper
96	100		
61	143.4	111.2	166.8
98	68.4	51.6	77.4

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#22

Diisopropyl ether

Concen: 20.31 ug/l

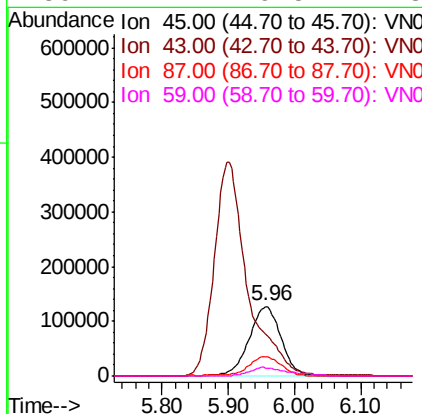
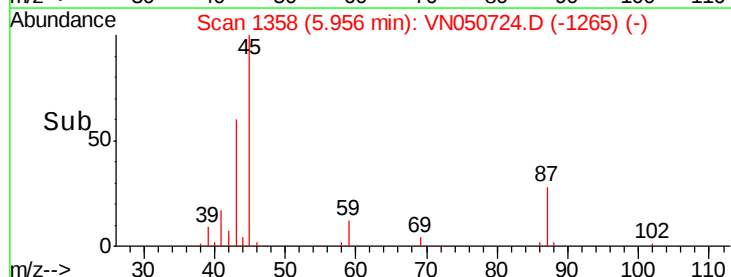
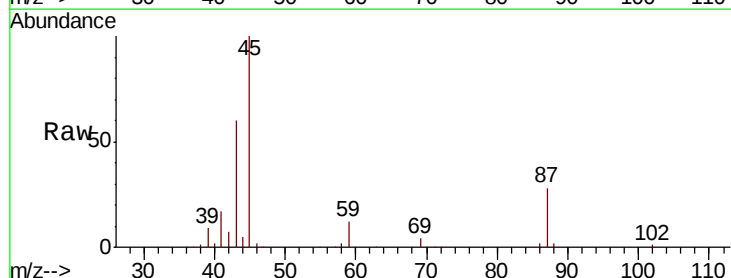
RT: 5.96 min Scan# 1358

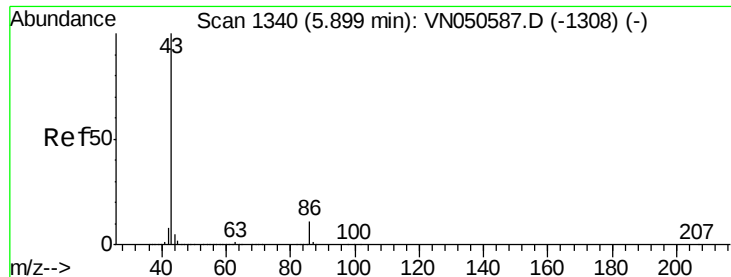
Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	45	Resp:	426820
Ion	Ratio	Lower	Upper
45	100		
43	58.7	44.5	66.7
87	28.4	22.2	33.2
59	11.7	9.5	14.3





#23

Vinyl Acetate

Concen: 98.82 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampled :

VN0817WBS02

Tot Ion: 43 Resp: 1358706

Ion Ratio Lower Upper

43 100

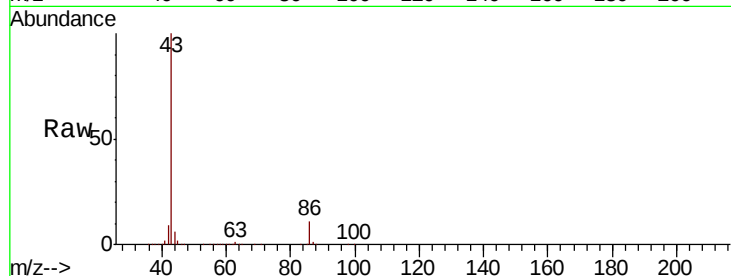
86 10.9 8.4 12.6

Manual Integrations

APPROVED

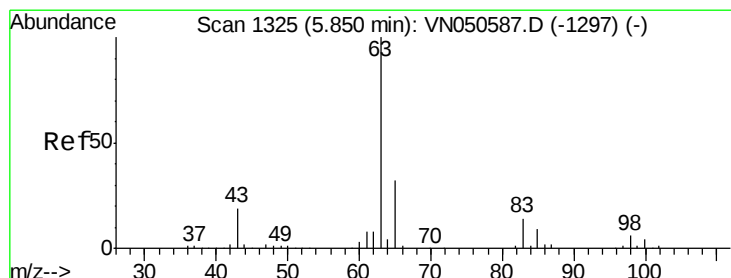
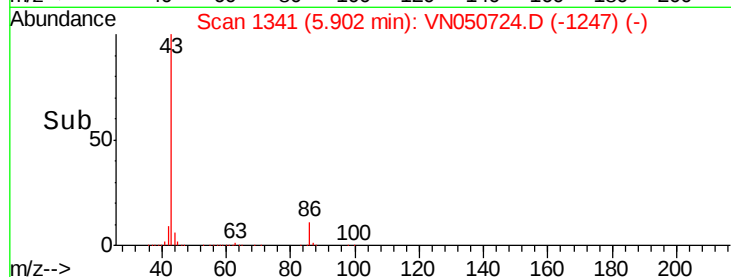
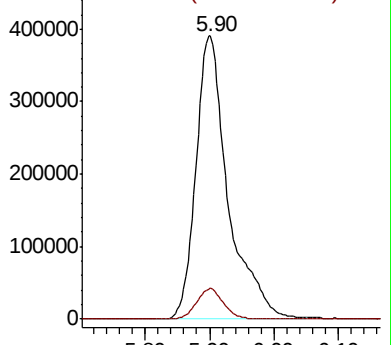
MMDadoda

8/20/2018 10:52:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.03 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

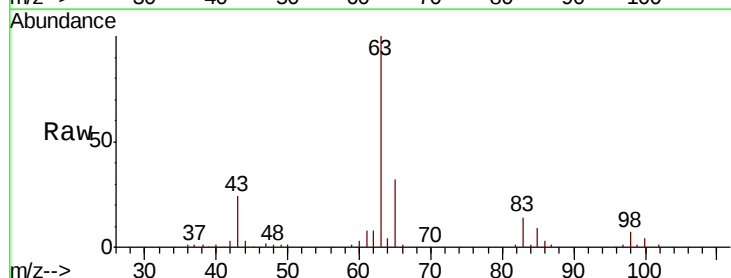
Tgt Ion: 63 Resp: 258857

Ion Ratio Lower Upper

63 100

98 7.3 3.2 9.6

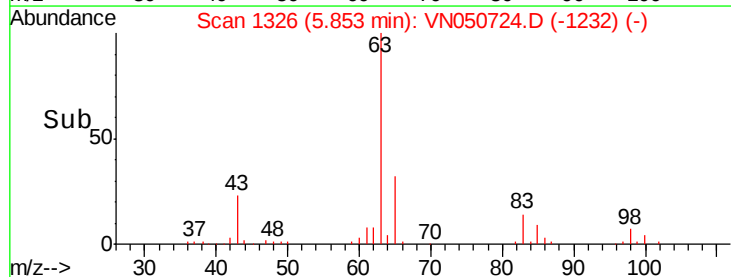
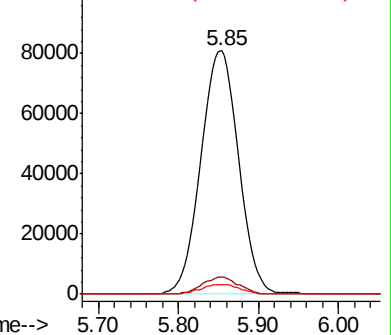
100 4.0 2.1 6.5

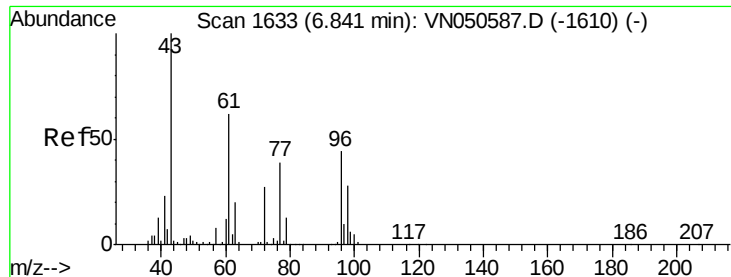


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 99.91 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 43 Resp: 313615

Ion Ratio Lower Upper

43 100

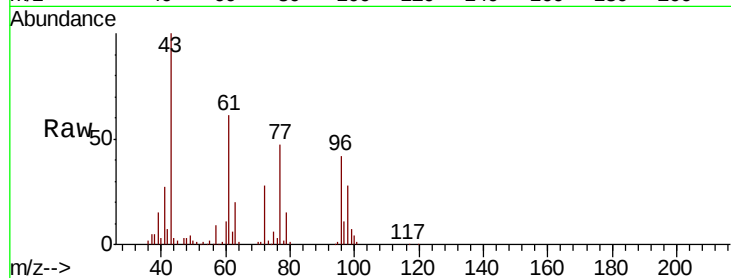
72 27.8 21.8 32.6

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

120000

100000

80000

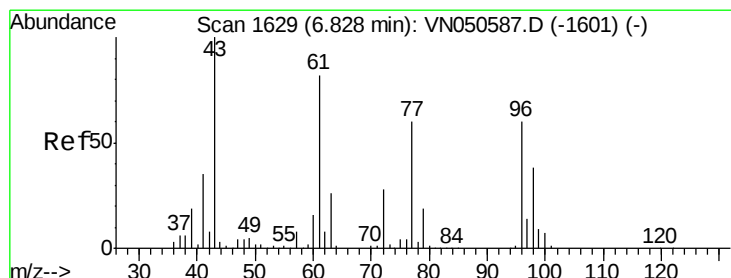
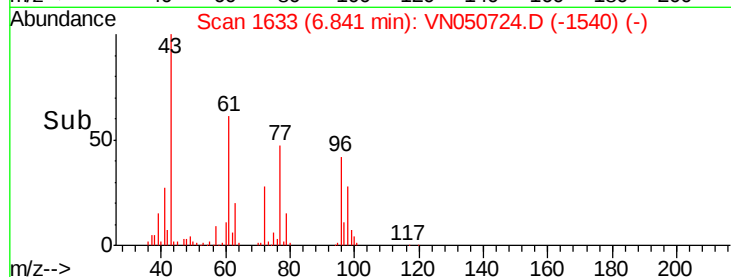
60000

40000

20000

0

Time-->



#26

2,2-Dichloropropane

Concen: 21.72 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050724.D

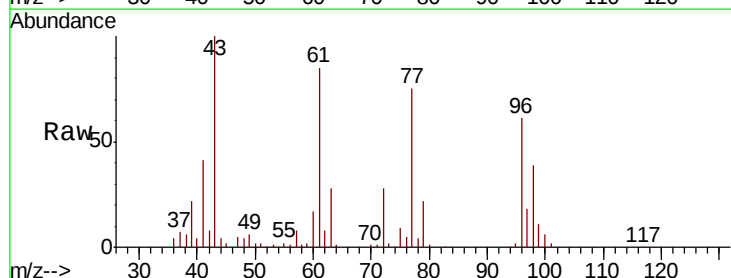
Acq: 17 Aug 2018 12:44

Tgt Ion: 77 Resp: 197698

Ion Ratio Lower Upper

77 100

97 24.3 12.2 36.4



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.83

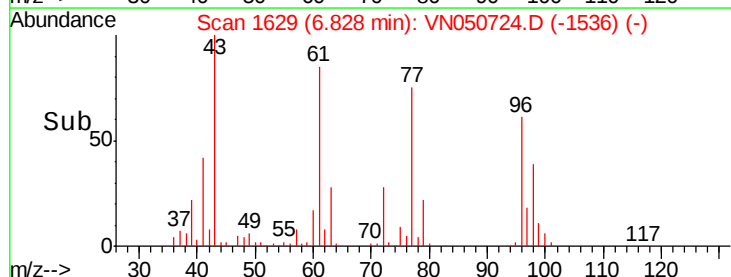
60000

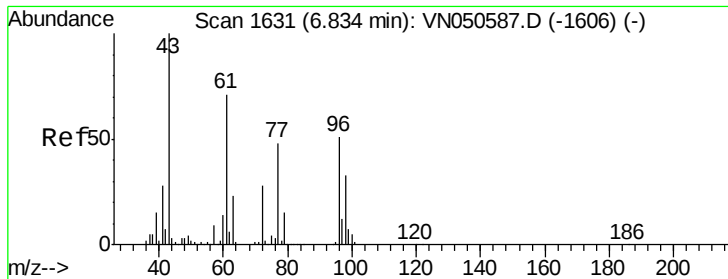
40000

20000

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 18.85 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

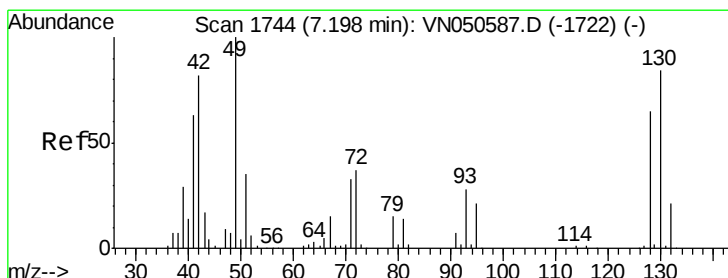
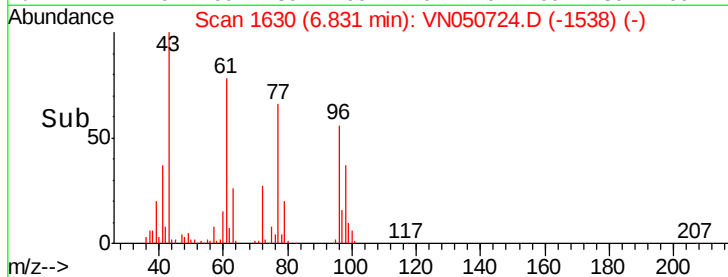
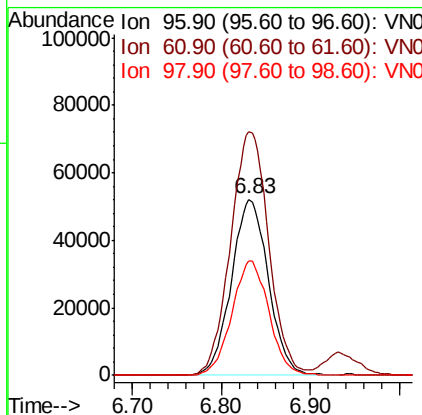
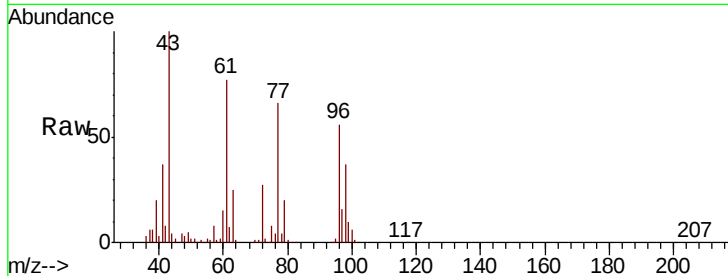
ClientSampleId :

VN0817WBS02

Tot Ion:	96	Resp:	149964
Ion	Ratio	Lower	Upper
96	100		
61	142.9	0.0	278.2
98	65.2	0.0	128.8

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#28

Bromochloromethane

Concen: 19.02 ug/l

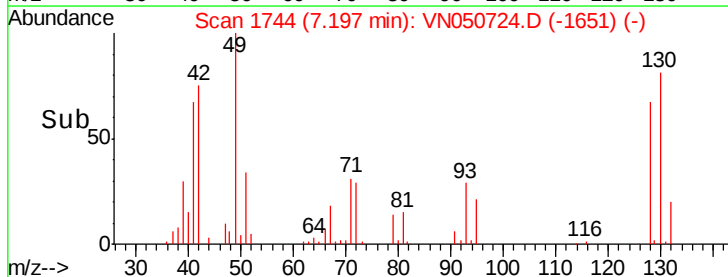
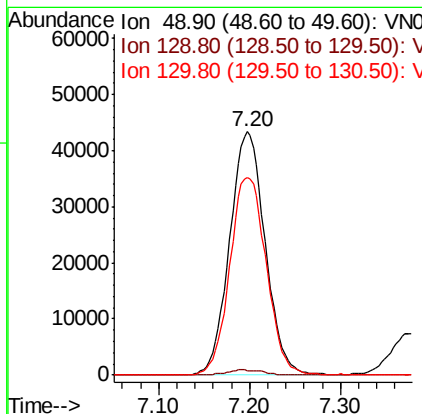
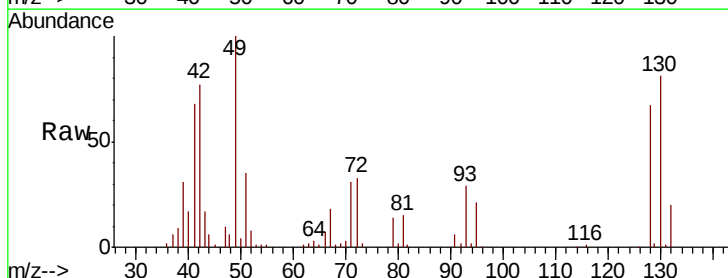
RT: 7.20 min Scan# 1744

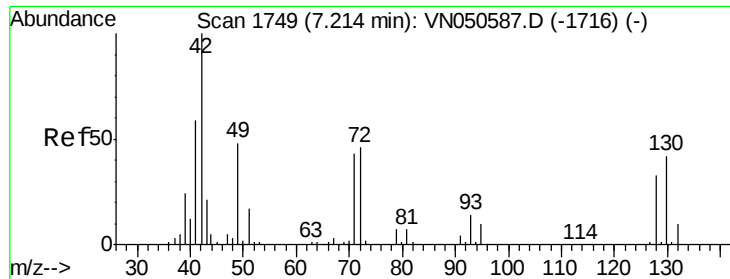
Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	49	Resp:	117734
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	83.4	66.8	100.2





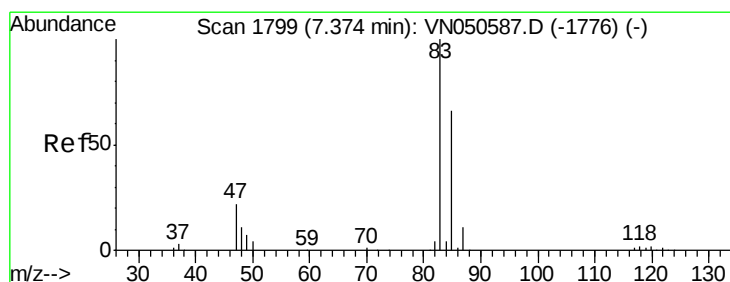
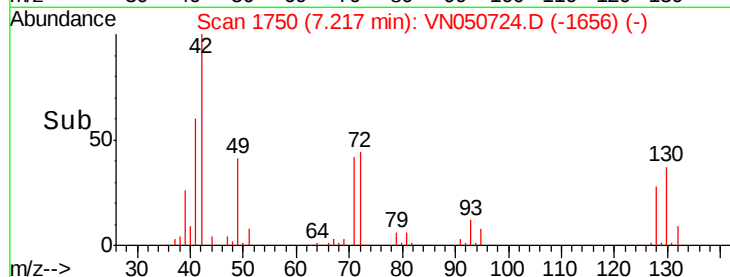
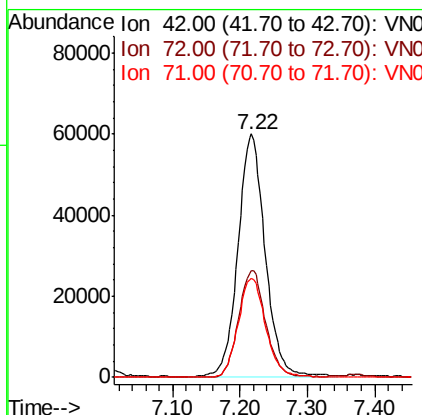
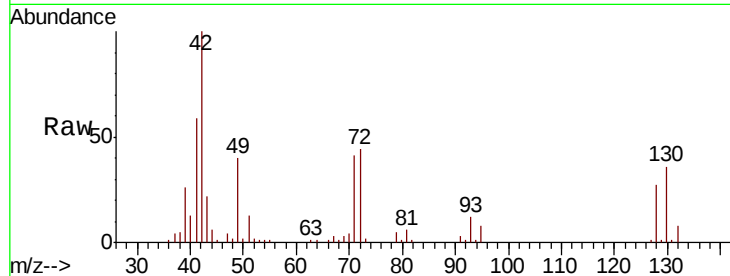
#29
Tetrahydrofuran
Concen: 103.44 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.5	35.8	53.6
71	40.6	33.4	50.0

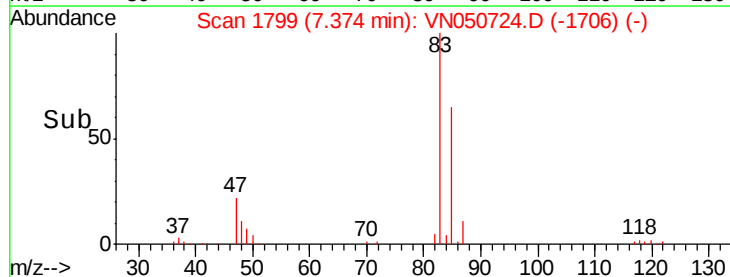
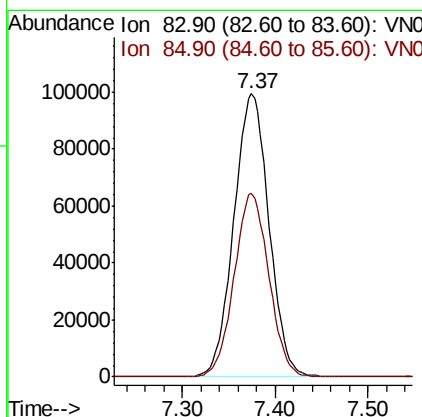
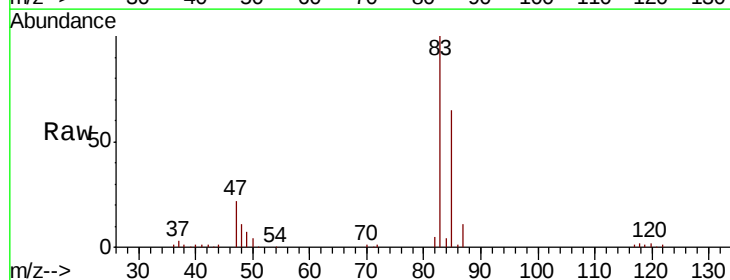
Manual Integrations
APPROVED

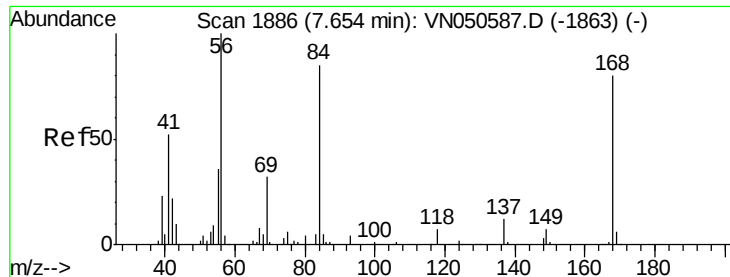
MMDadoda
8/20/2018 10:52:57 AM



#30
Chloroform
Concen: 18.95 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.5	78.7





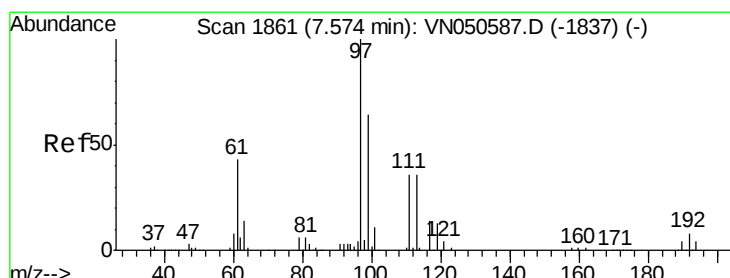
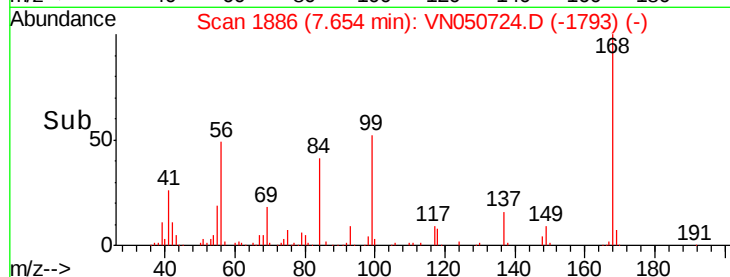
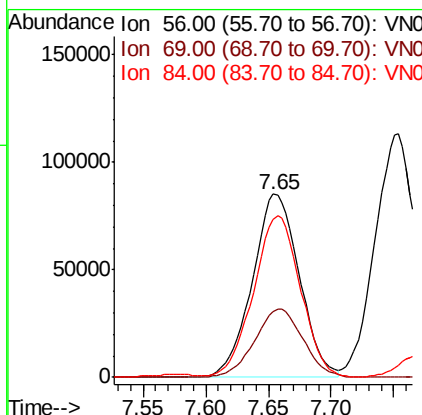
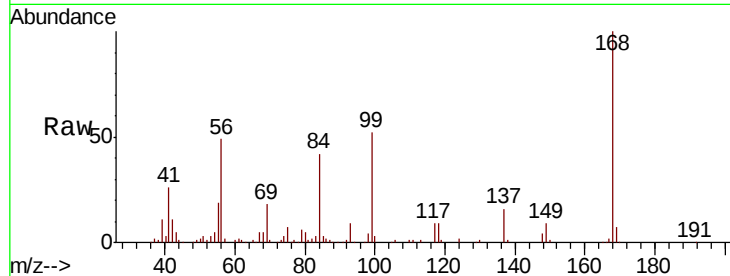
#31
Cyclohexane
Concen: 18.90 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampled :
VN0817WBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.0	25.8	38.6
84	85.0	67.8	101.6

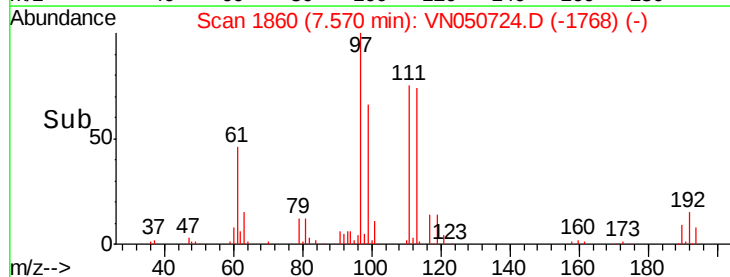
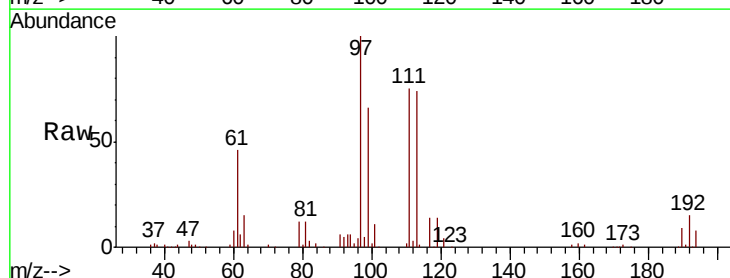
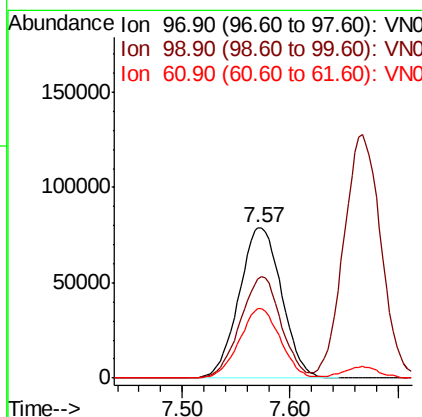
Manual Integrations
APPROVED

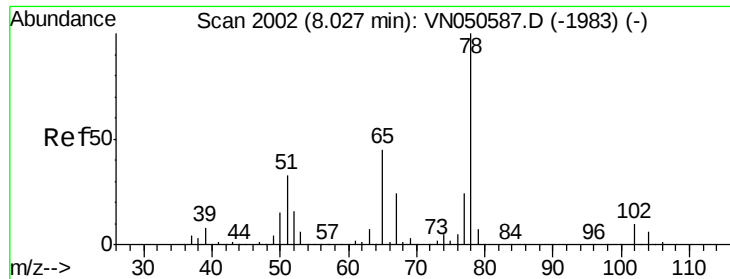
MMDadoda
8/20/2018 10:52:57 AM



#32
1,1,1-Trichloroethane
Concen: 18.68 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.1	76.7
61	44.7	34.8	52.2





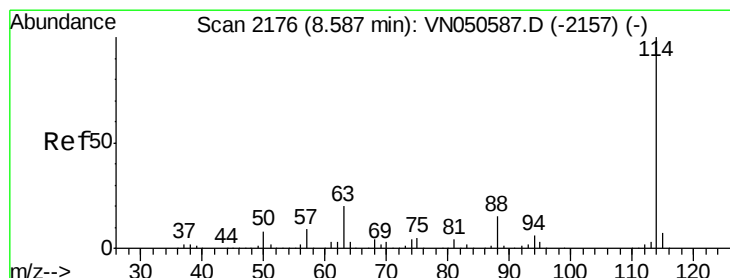
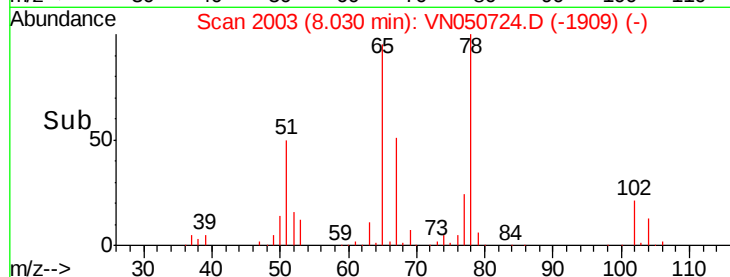
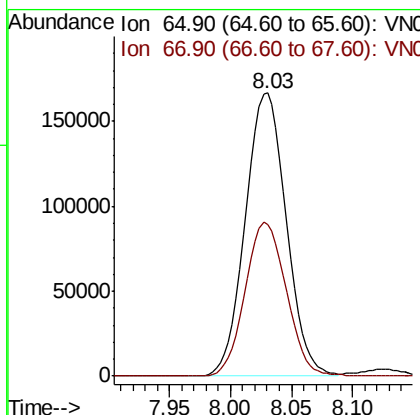
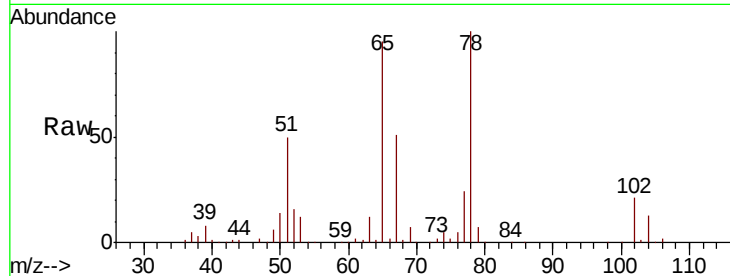
#33
 1,2-Dichloroethane-d4
 Concen: 50.62 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBS02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	387506		
67	54.7	0.0	109.8	

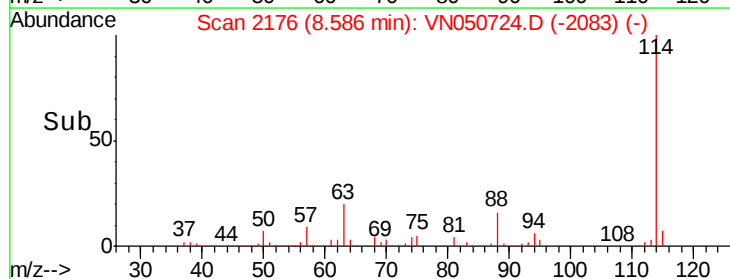
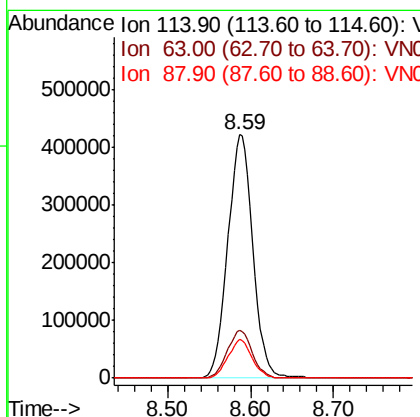
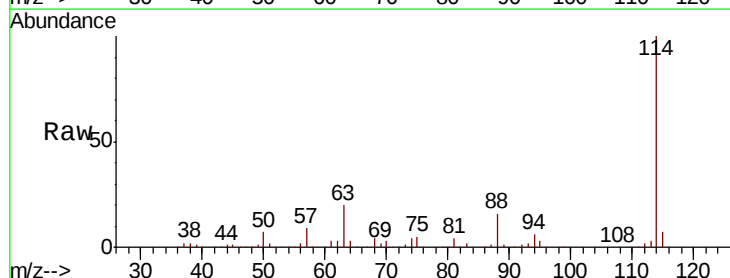
Manual Integrations
 APPROVED

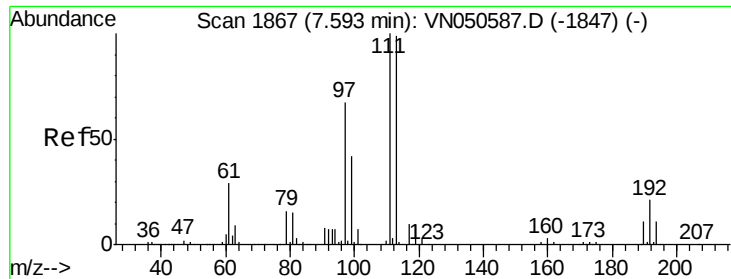
MMDadoda
 8/20/2018 10:52:57 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	887637		
63	19.6	0.0	40.0	
88	15.8	0.0	30.8	





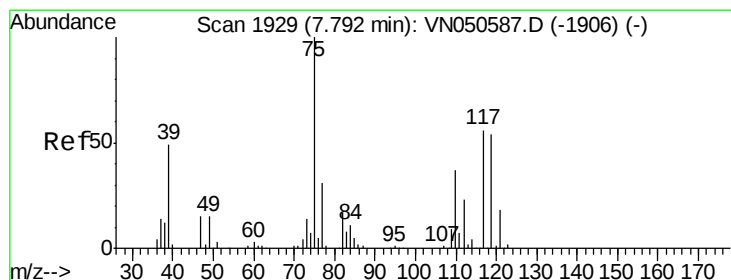
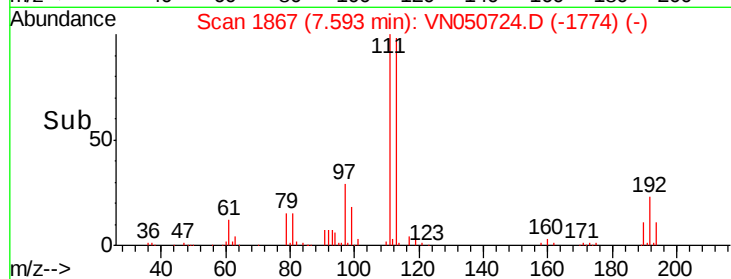
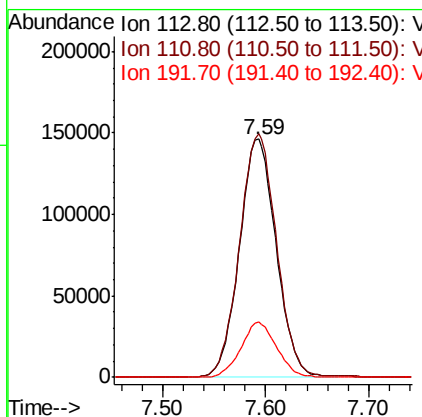
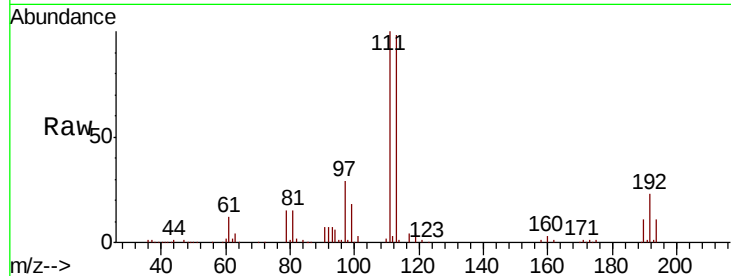
#35
 Dibromofluoromethane
 Concen: 51.30 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	363513		
111	103.3	81.0	121.6	
192	22.2	17.6	26.4	

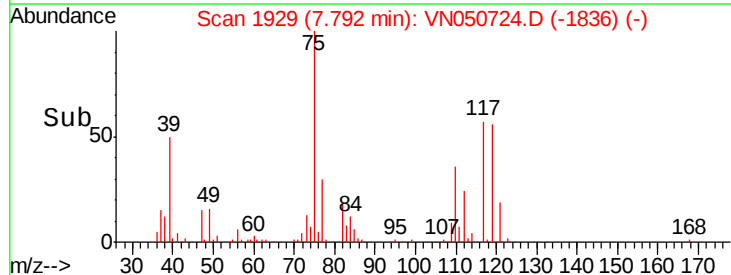
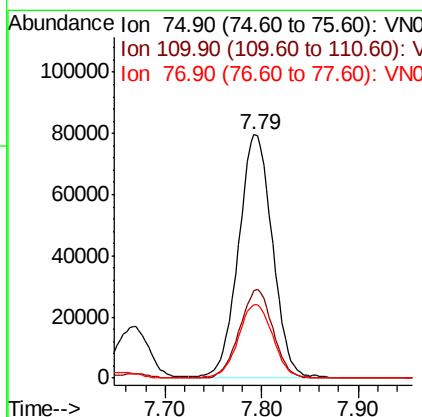
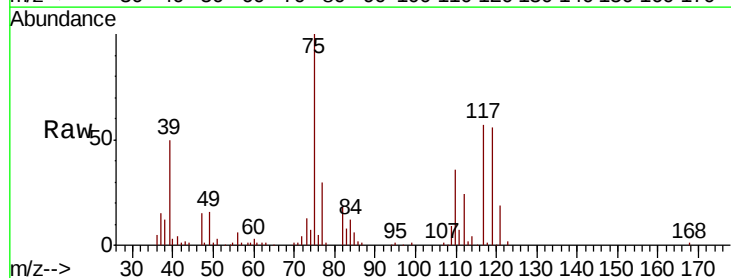
Manual Integrations
 APPROVED

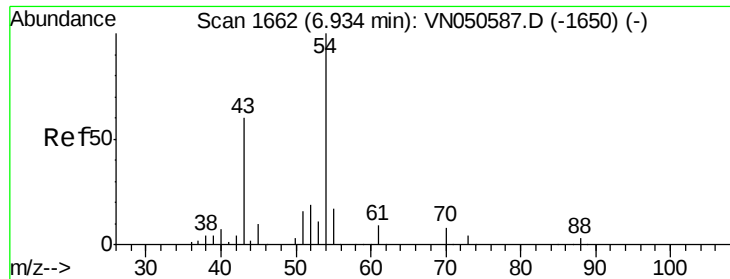
MMDadoda
 8/20/2018 10:52:57 AM



#36
 1,1-Dichloropropene
 Concen: 19.57 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	193411		
110	35.8	18.3	54.9	
77	31.0	25.0	37.4	





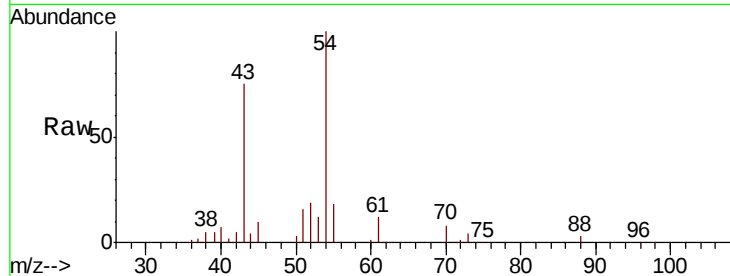
#37
Ethyl Acetate
Concen: 21.12 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.0	18.0
70	4.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM

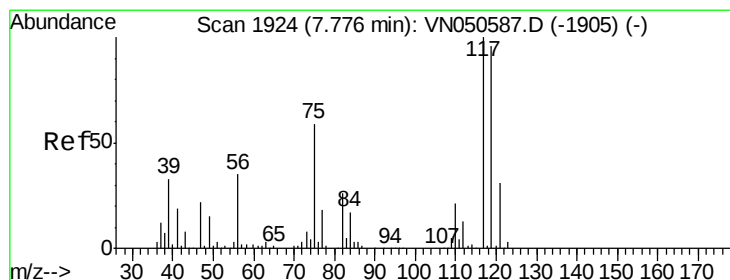
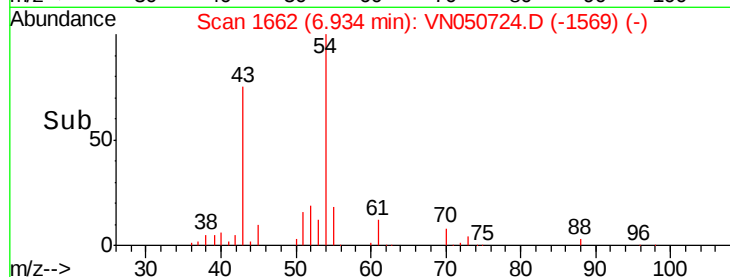
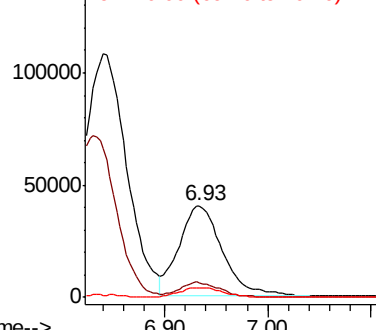


Abundance

Ion 43.00 (42.70 to 43.70): VN050724.D (-1650) (-)

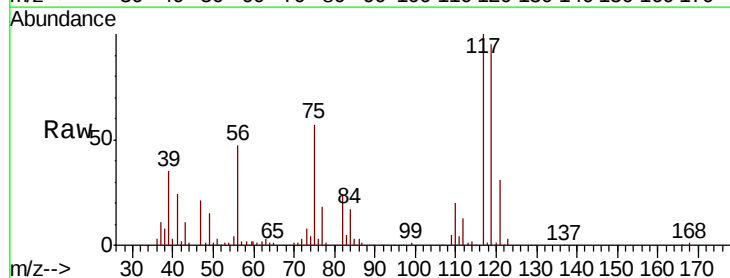
Ion 60.90 (60.60 to 61.60): VN050724.D (-1650) (-)

Ion 70.00 (69.70 to 70.70): VN050724.D (-1650) (-)



#38
Carbon Tetrachloride
Concen: 19.00 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.6	115.0
121	30.6	25.0	37.6

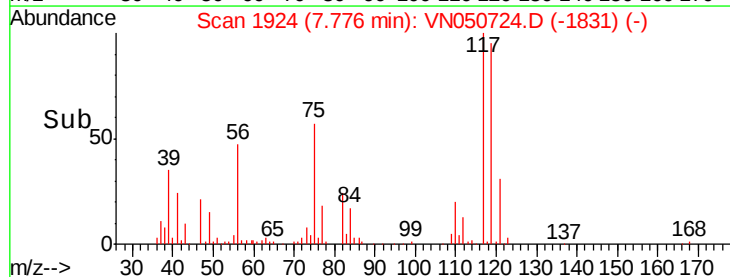
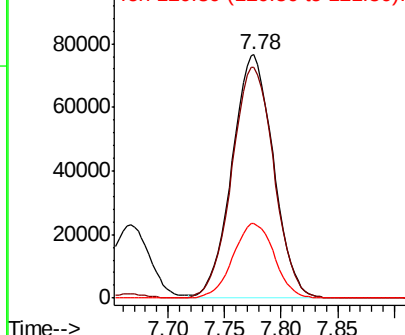


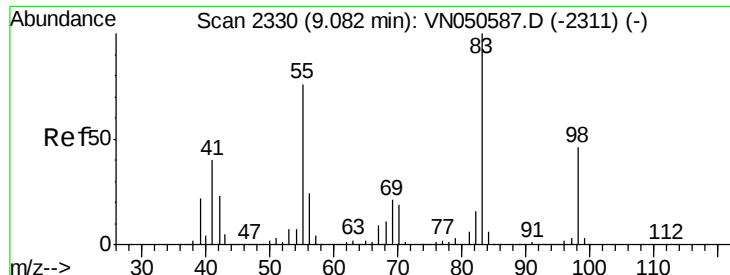
Abundance

Ion 116.80 (116.50 to 117.50): VN050724.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN050724.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN050724.D (-1831) (-)





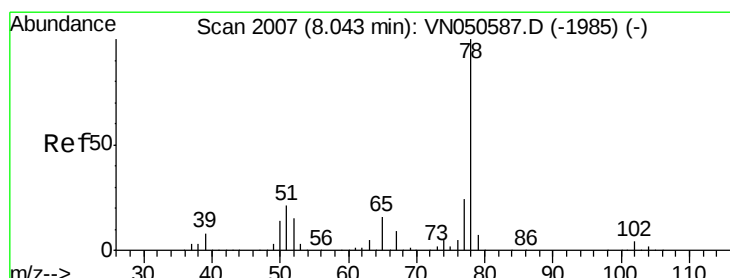
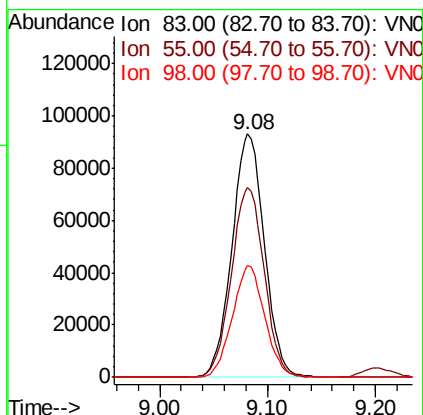
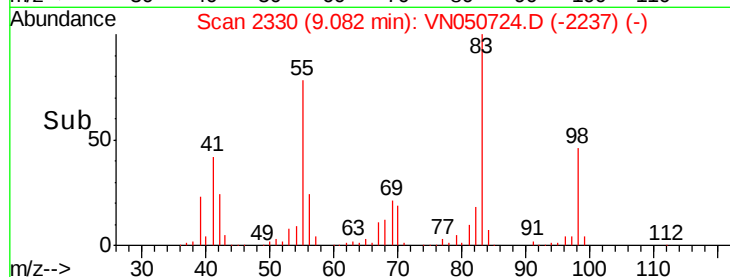
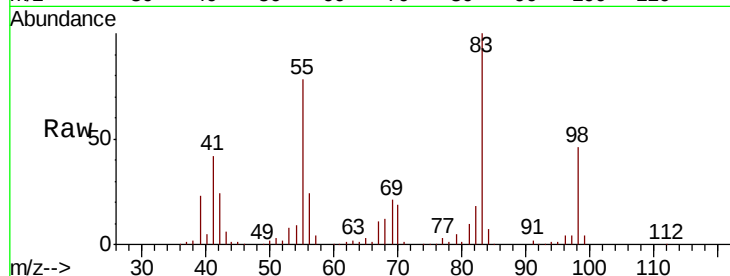
#39
Methvlcvclohexane
Concen: 19.11 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.1	60.6	91.0
98	46.0	37.0	55.4

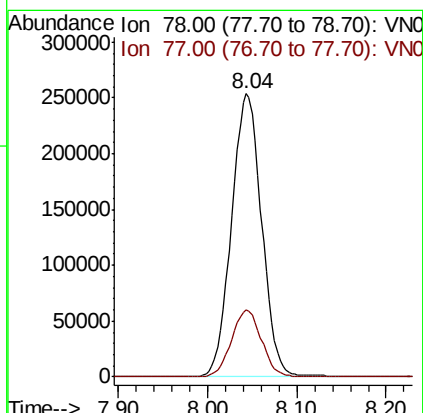
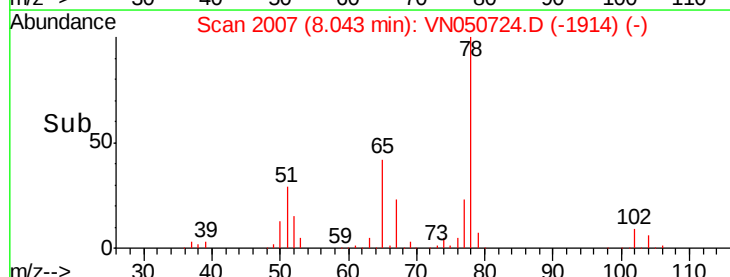
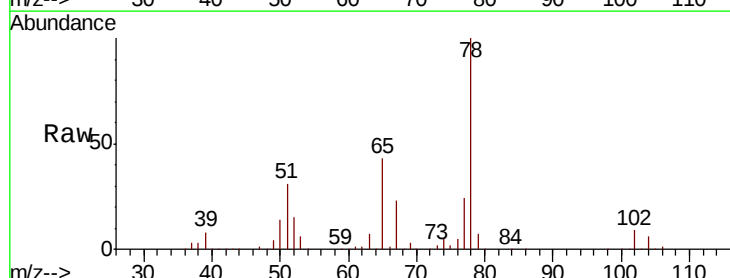
Manual Integrations
APPROVED

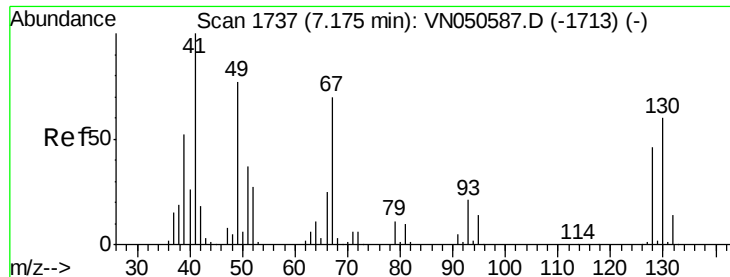
MMDadoda
8/20/2018 10:52:57 AM



#40
Benzene
Concen: 19.79 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6





#41

Methacrylonitrile

Concen: 20.35 ug/l

RT: 7.18 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 41 Resp: 61459

Ion Ratio Lower Upper

41 100

39 36.0 44.6 66.8#

67 86.3 66.7 100.1

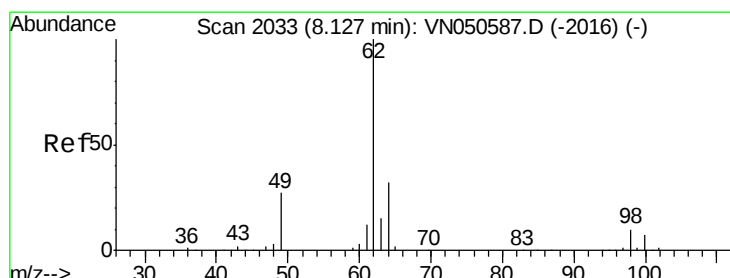
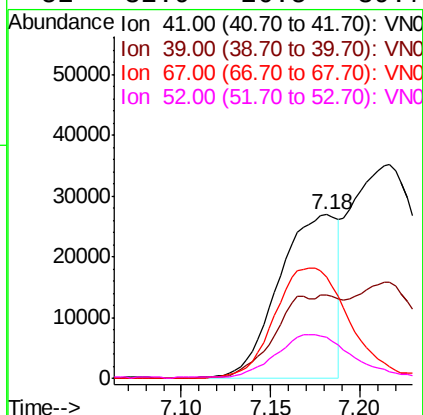
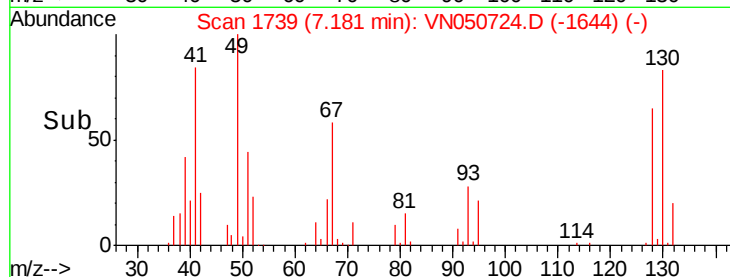
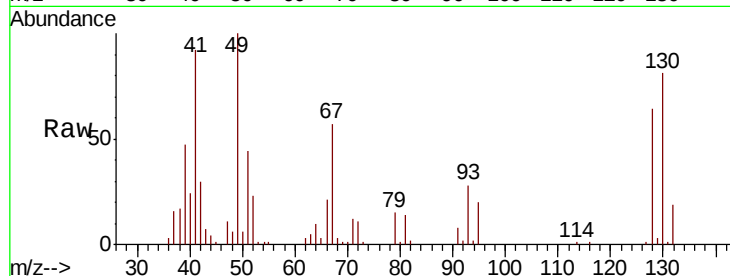
52 32.9 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



#42

1,2-Dichloroethane

Concen: 19.76 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. -0.00 min

Lab File: VN050724.D

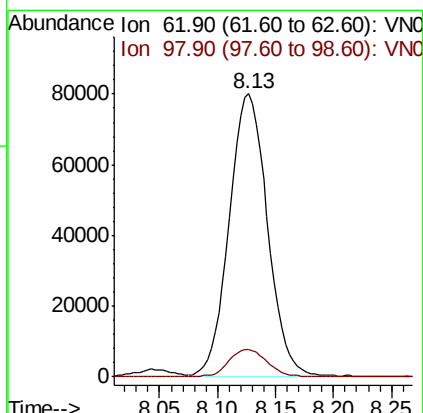
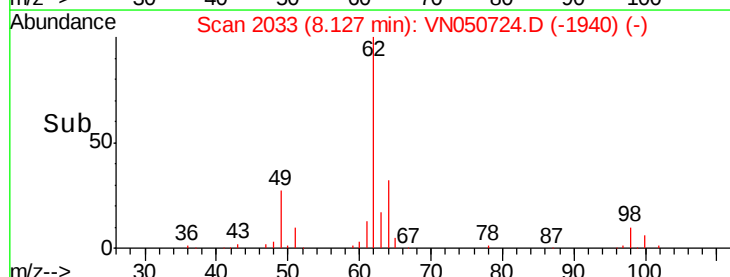
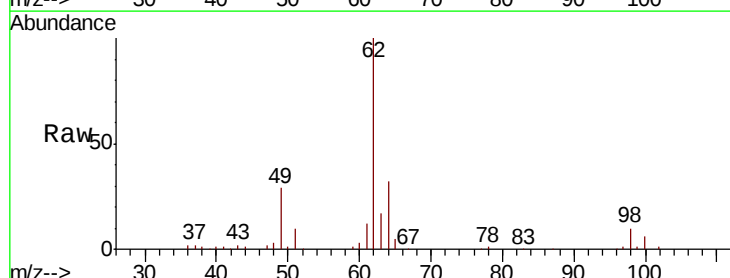
Acq: 17 Aug 2018 12:44

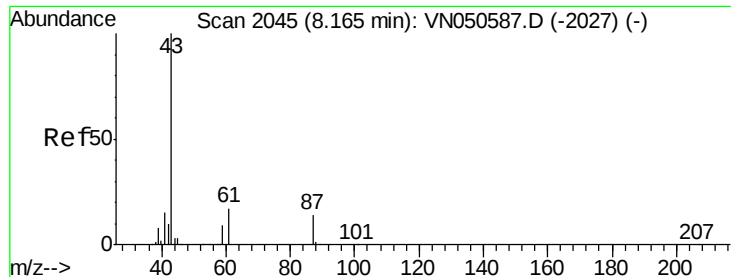
Tgt Ion: 62 Resp: 182081

Ion Ratio Lower Upper

62 100

98 9.7 0.0 19.4





#43

Isopropyl Acetate

Concen: 19.78 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

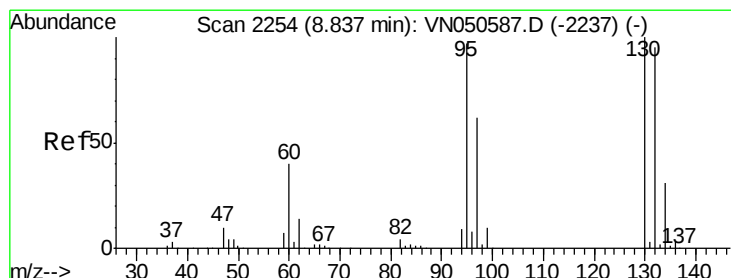
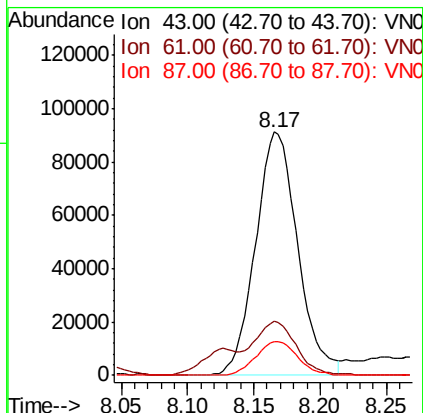
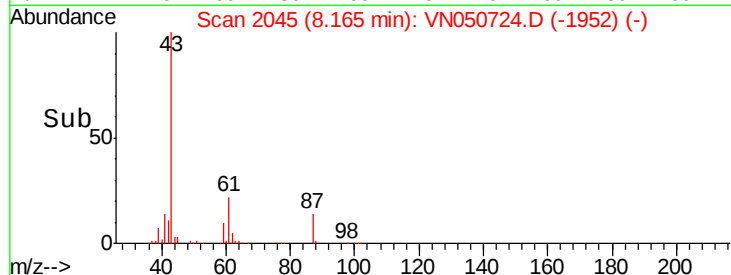
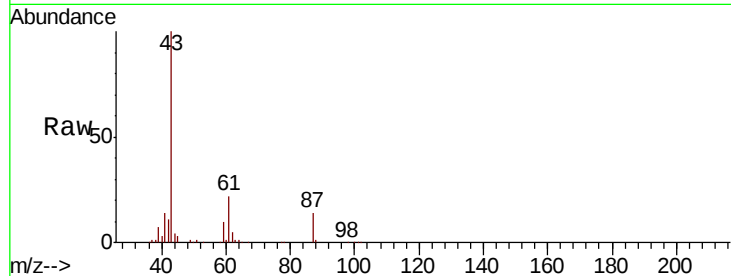
ClientSampleId :

VN0817WBS02

Tot Ion:	43	Resp:	201349
Ion	Ratio	Lower	Upper
43	100		
61	20.8	16.2	24.2
87	13.9	10.9	16.3

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#44

Trichloroethene

Concen: 19.07 ug/l

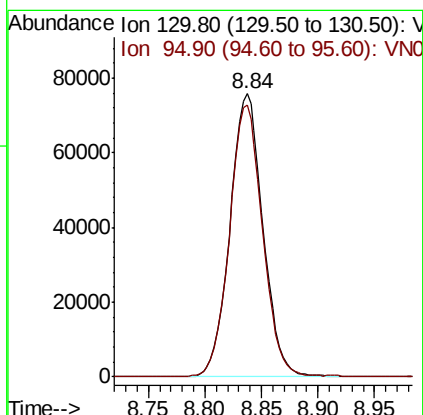
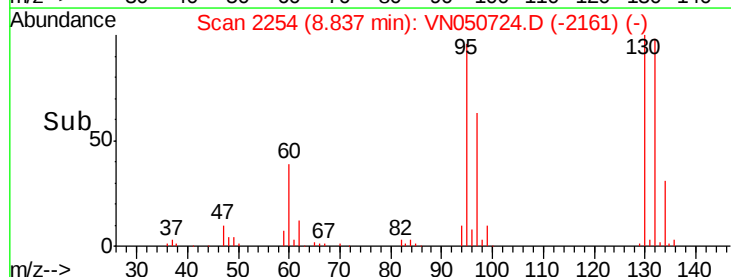
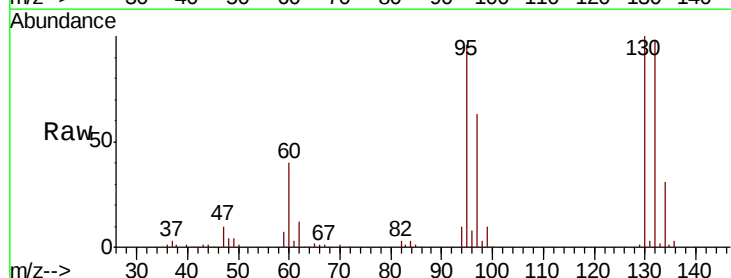
RT: 8.84 min Scan# 2254

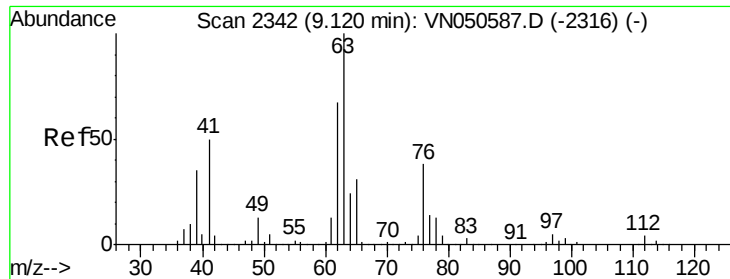
Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	130	Resp:	153564
Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	193.8





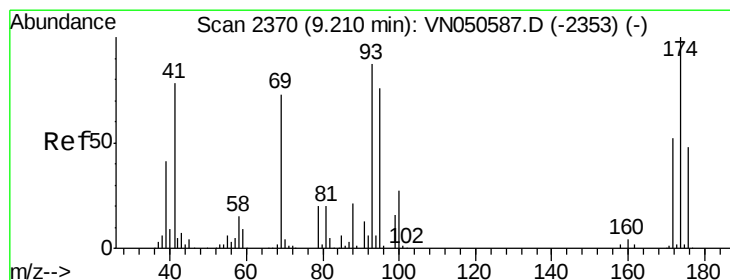
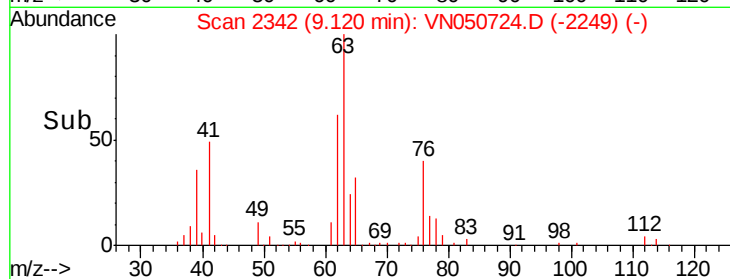
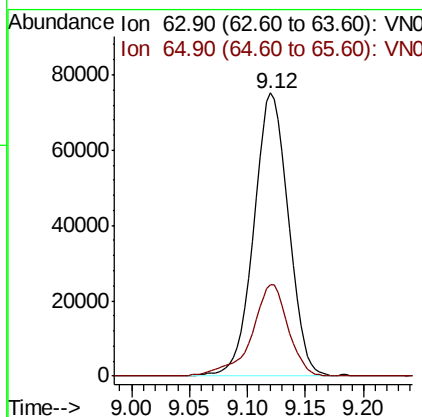
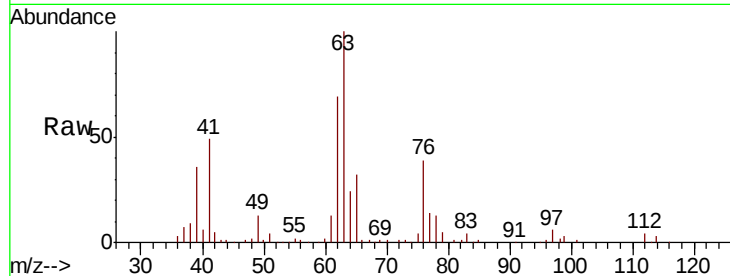
#45
 1,2-Dichloropropane
 Concen: 19.57 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBS02

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.3	24.5	36.7

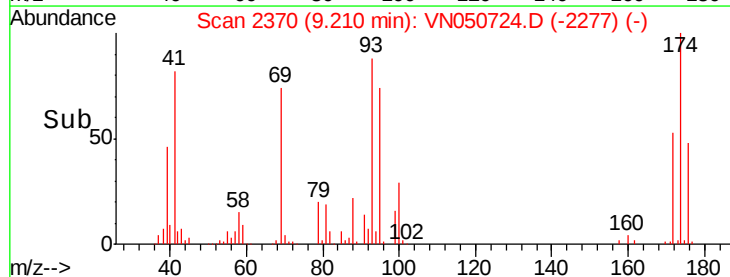
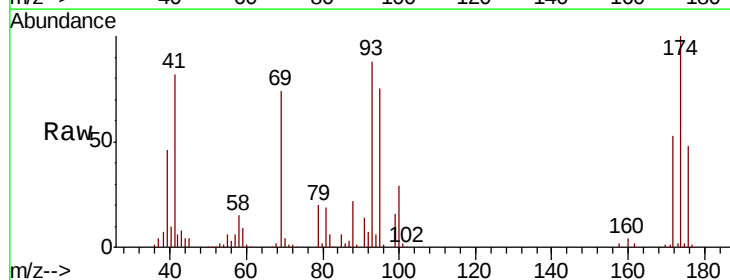
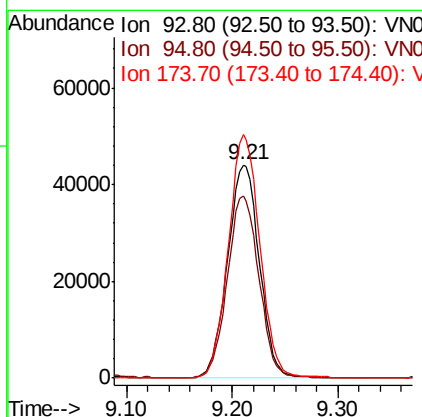
Manual Integrations
 APPROVED

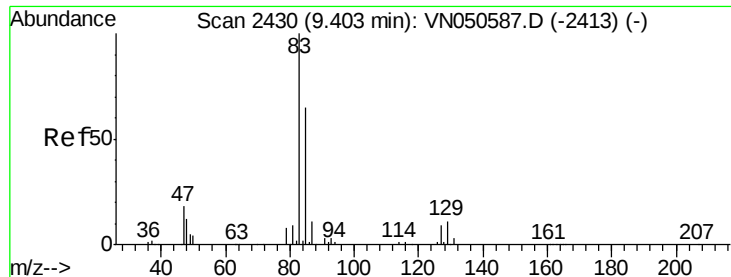
MMDadoda
 8/20/2018 10:52:57 AM



#46
 Dibromomethane
 Concen: 19.52 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.7	69.1	103.7
174	113.0	91.0	136.6





#47

Bromodichloromethane

Concen: 19.13 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

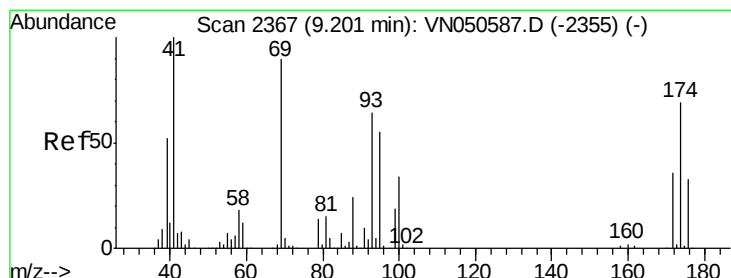
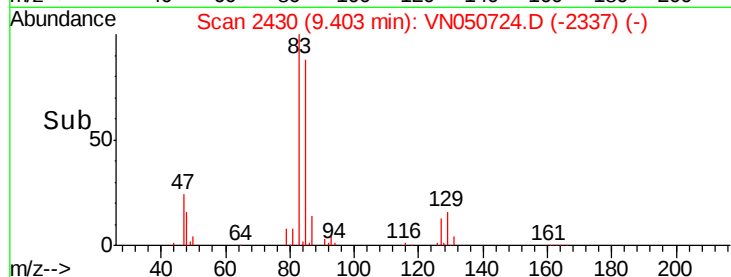
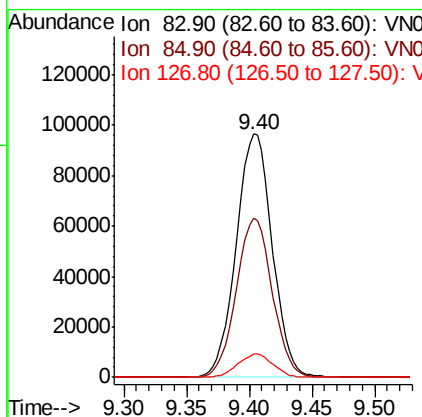
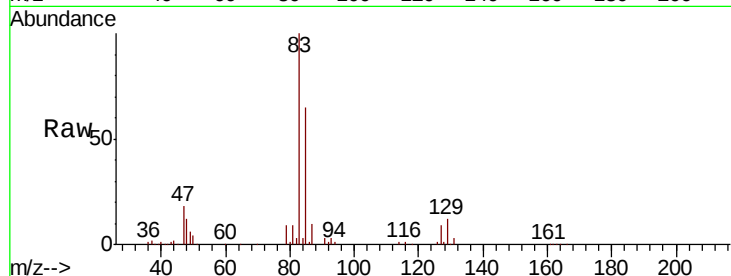
ClientSampleId :

VN0817WBS02

Tot Ion:	83	Resp:	193211
Ion Ratio	Lower	Upper	
83	100		
85	65.2	51.8	77.6
127	9.4	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#48

Methyl methacrylate

Concen: 18.83 ug/l

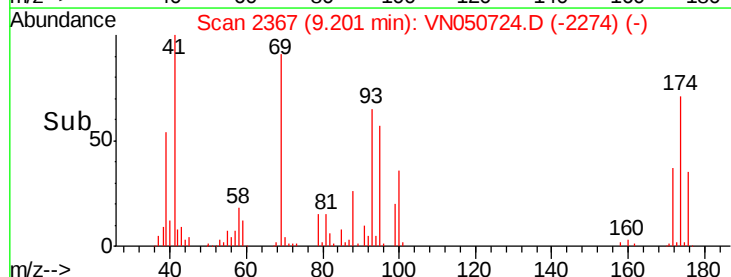
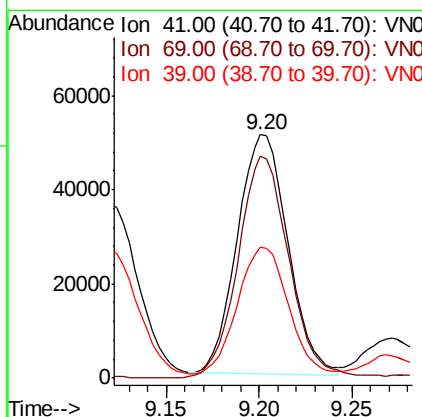
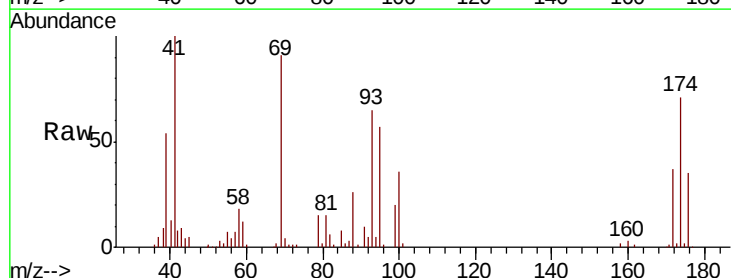
RT: 9.20 min Scan# 2367

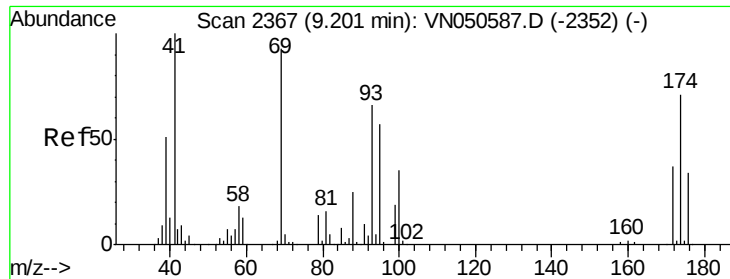
Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	41	Resp:	96445
Ion Ratio	Lower	Upper	
41	100		
69	93.9	73.4	110.0
39	56.1	43.0	64.6





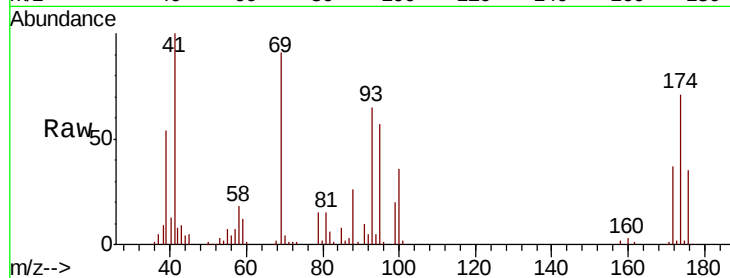
#49
 1,4-Dioxane
 Concen: 410.49 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0817WBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.4	25.9	38.9
58	71.3	56.5	84.7

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:52:57 AM

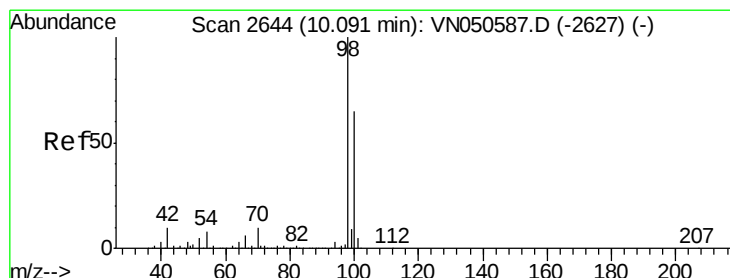
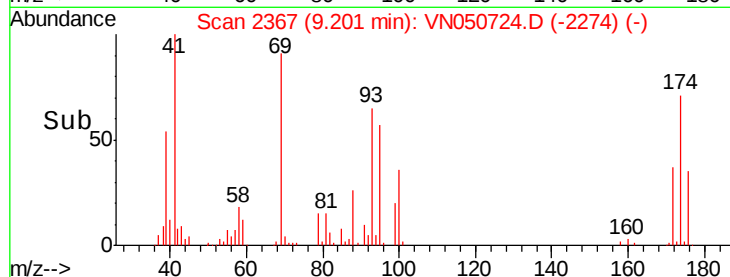
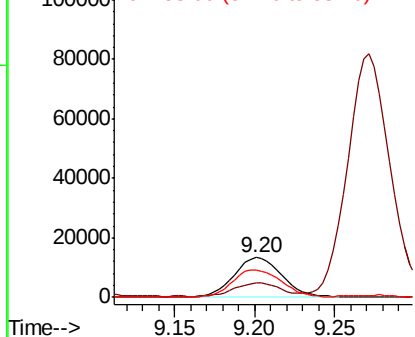


Abundance

Ion 88.00 (87.70 to 88.70): VN0

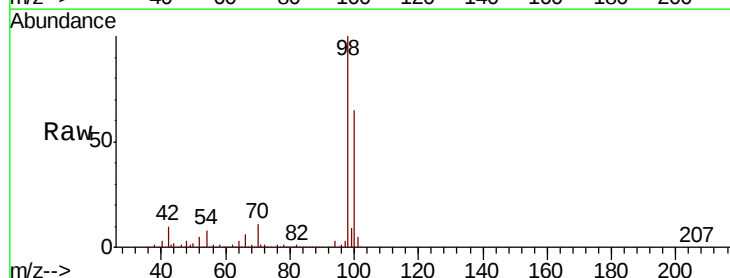
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
 Toluene-d8
 Concen: 50.98 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

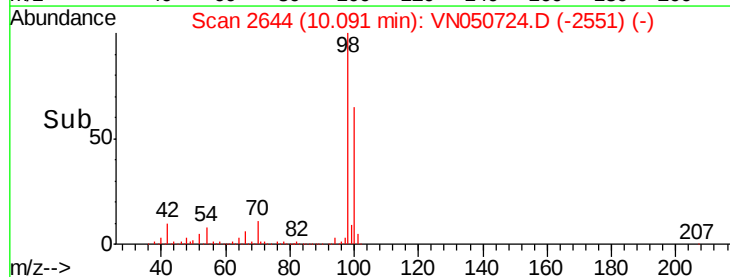
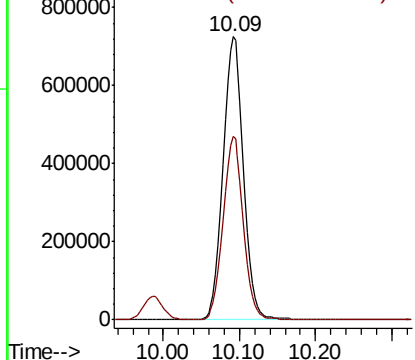
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.8	77.8

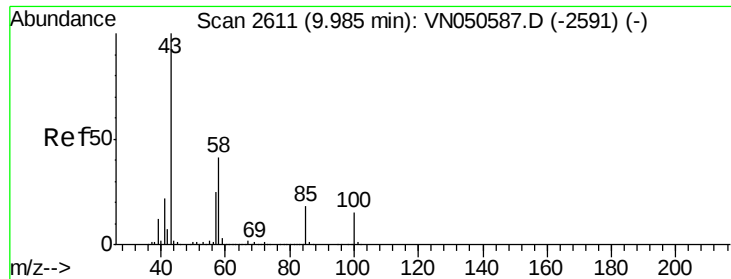


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





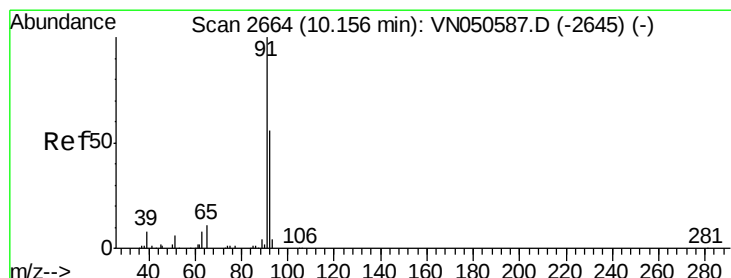
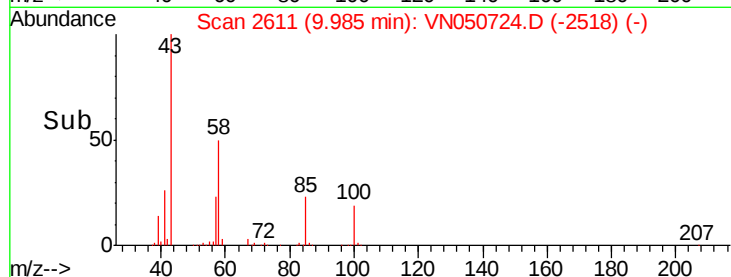
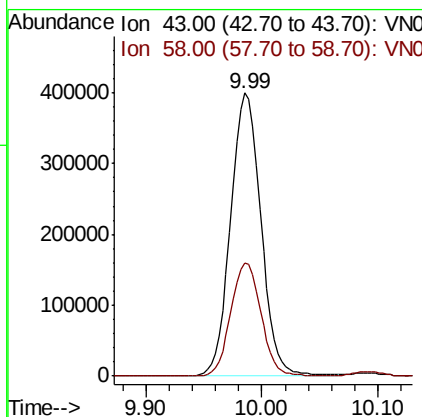
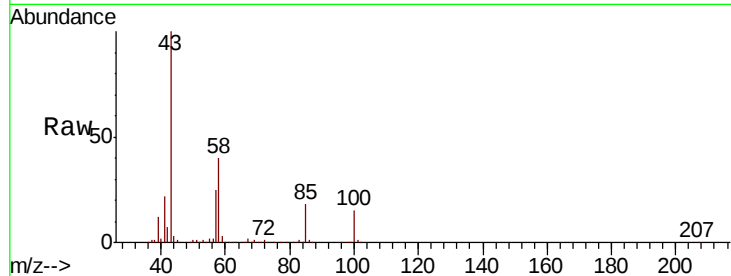
#51
4-Methyl-2-Pentanone
Concen: 105.27 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.0	32.5	48.7

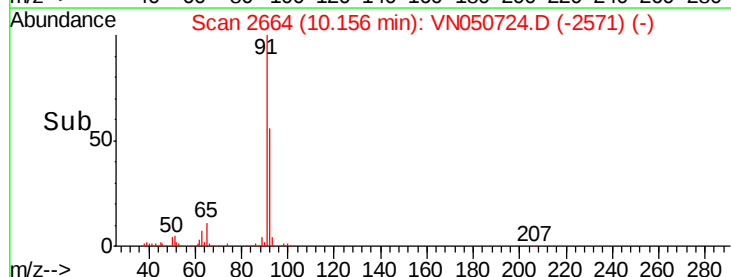
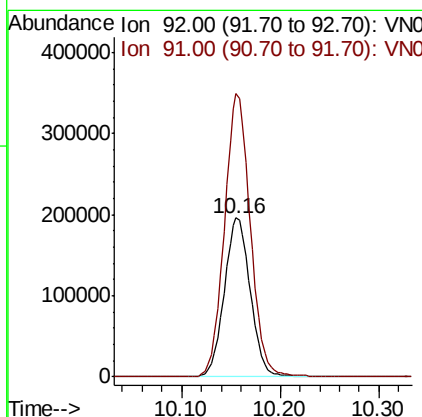
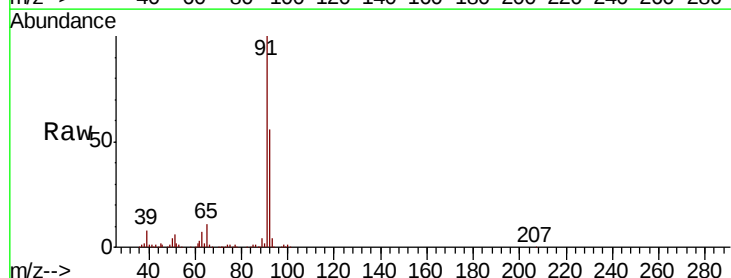
Manual Integrations
APPROVED

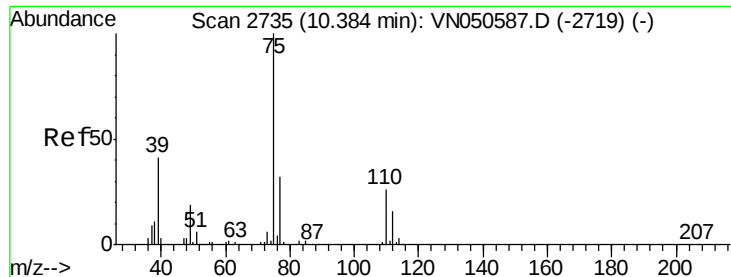
MMDadoda
8/20/2018 10:52:57 AM



#52
Toluene
Concen: 20.23 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.8	141.9	212.9





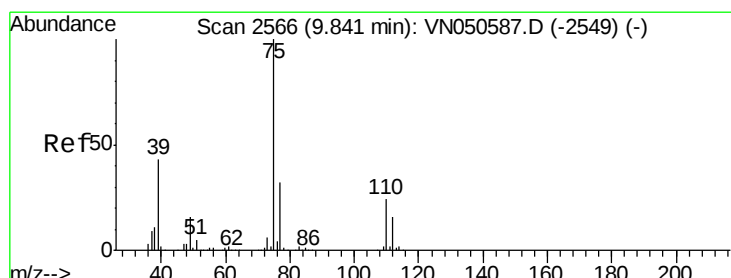
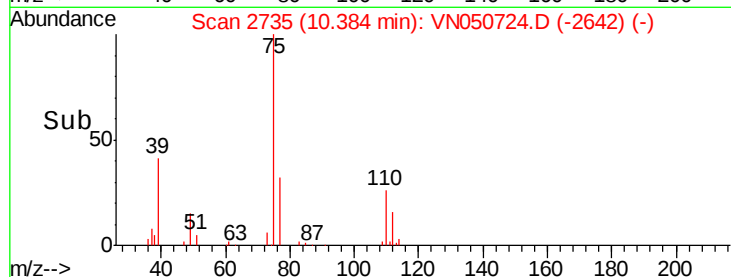
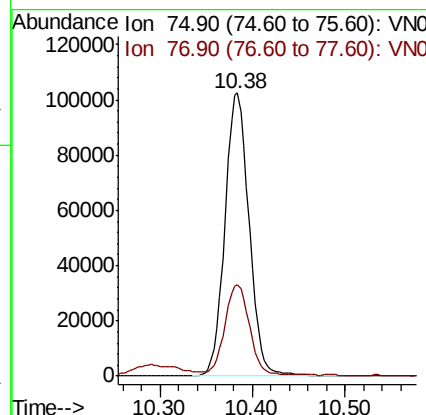
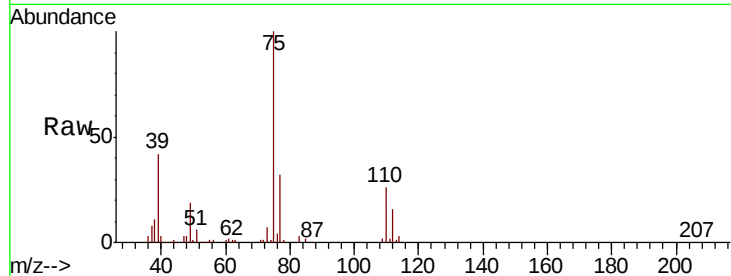
#53
t-1,3-Dichloropropene
Concen: 19.72 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampled :
VN0817WBS02

Tot Ion: 75 Resp: 185476
Ion Ratio Lower Upper
75 100
77 31.8 25.8 38.6

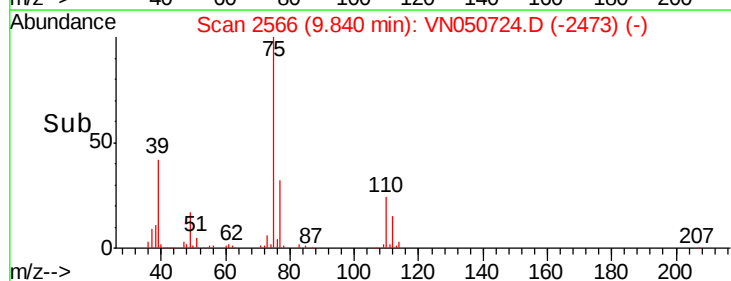
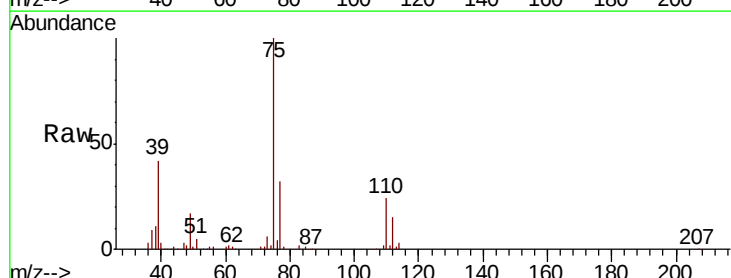
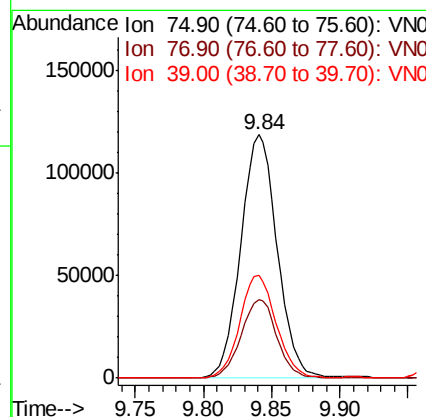
Manual Integrations
APPROVED

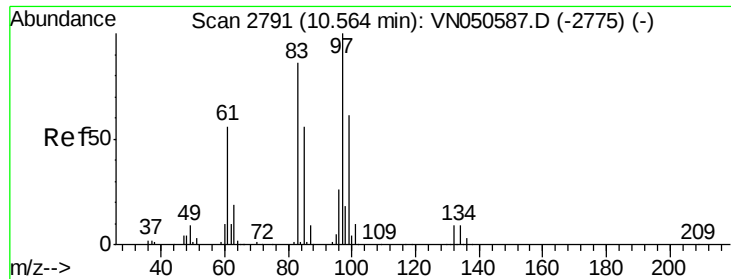
MMDadoda
8/20/2018 10:52:57 AM



#54
cis-1,3-Dichloropropene
Concen: 20.37 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion: 75 Resp: 219808
Ion Ratio Lower Upper
75 100
77 32.2 25.6 38.4
39 42.0 34.4 51.6





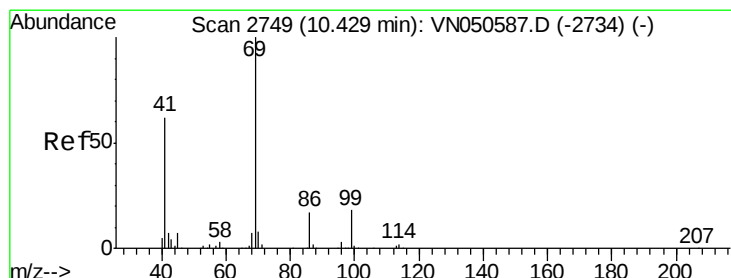
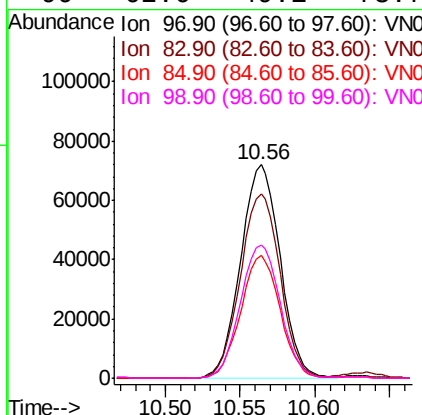
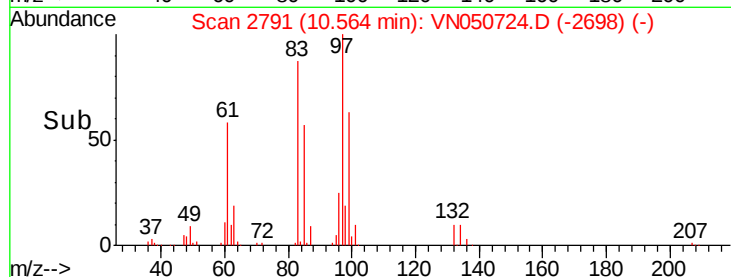
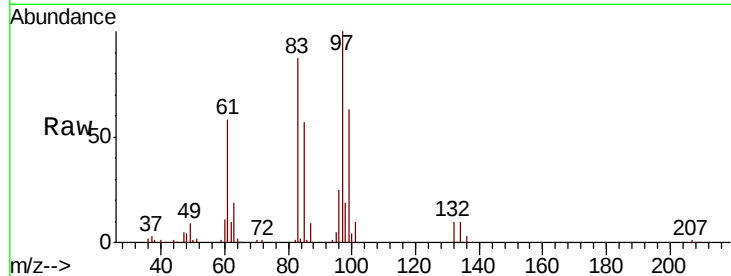
#55
 1,1,2-Trichloroethane
 Concen: 19.83 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampled :
 VN0817WBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		132983		
83	86.5	68.5	102.7		
85	57.3	44.6	66.8		
99	62.6	49.1	73.7		

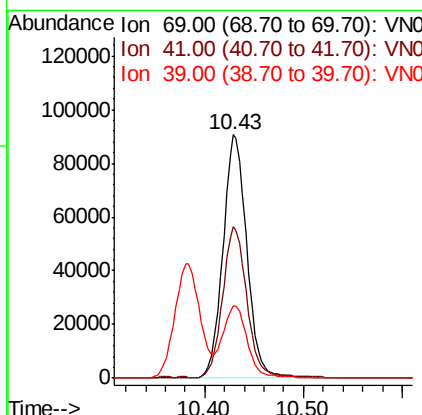
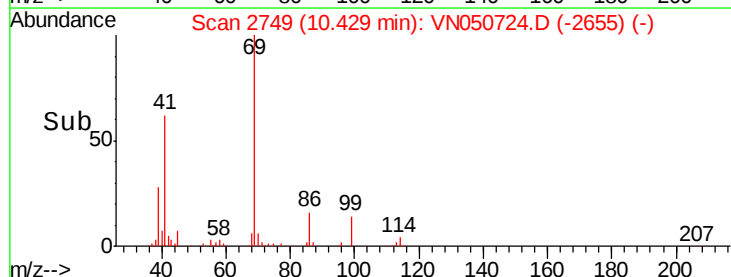
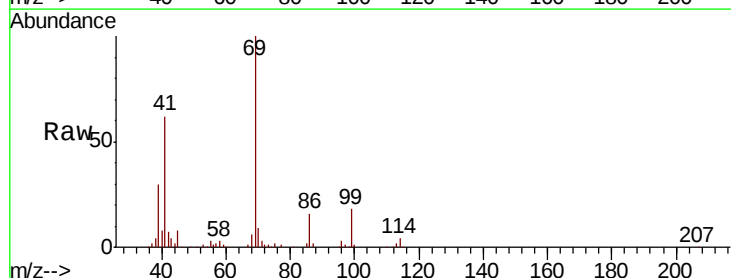
Manual Integrations
 APPROVED

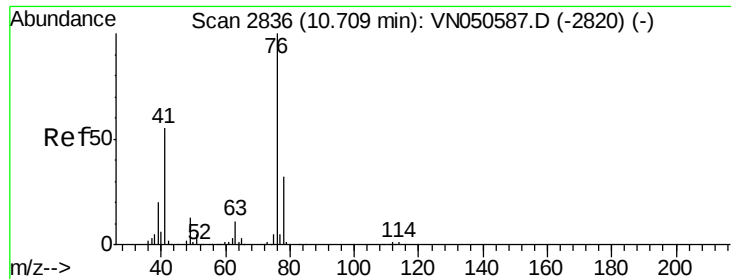
MMDadoda
 8/20/2018 10:52:57 AM



#56
 Ethyl methacrylate
 Concen: 19.27 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		154398		
41	62.1	49.7	74.5		
39	29.8	24.2	36.2		





#57

1,3-Dichloropropane

Concen: 20.07 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 76 Resp: 220646

Ion Ratio Lower Upper

76 100

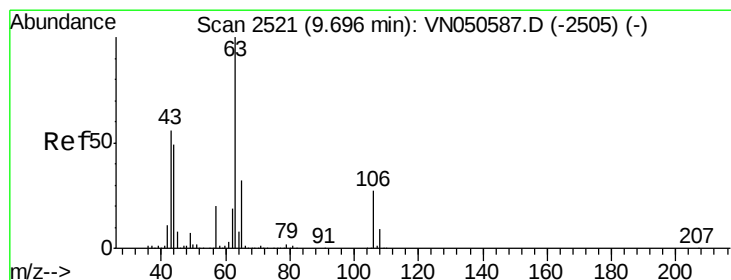
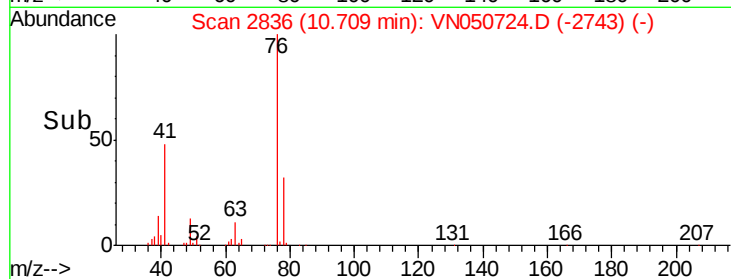
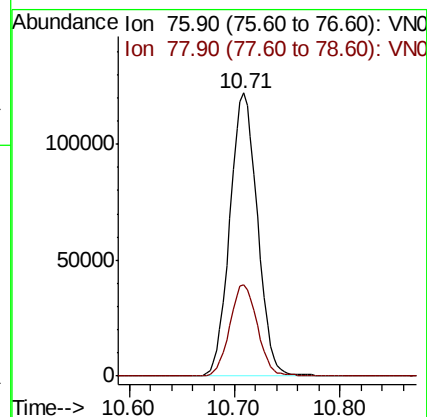
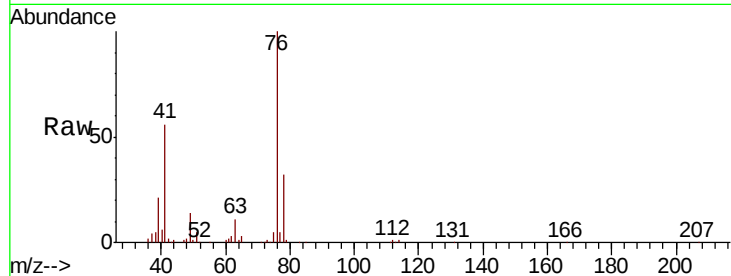
78 32.5 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



#58

2-Chloroethyl Vinyl ether

Concen: 95.84 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN050724.D

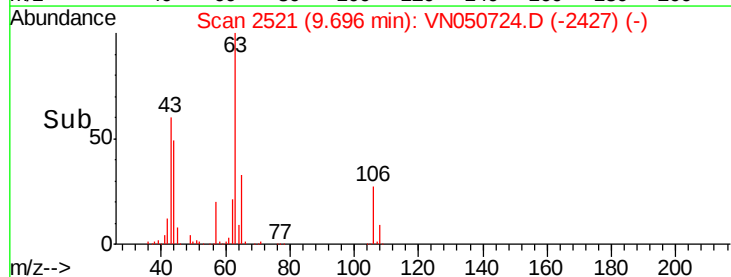
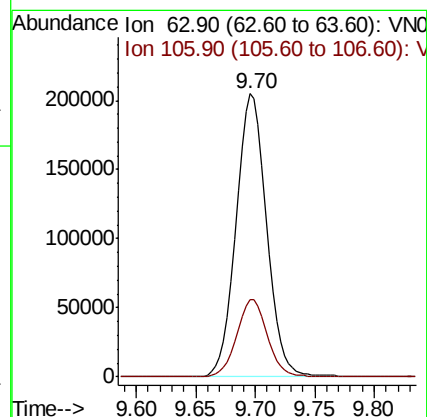
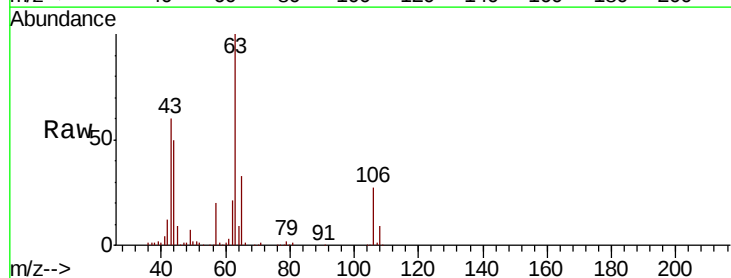
Acq: 17 Aug 2018 12:44

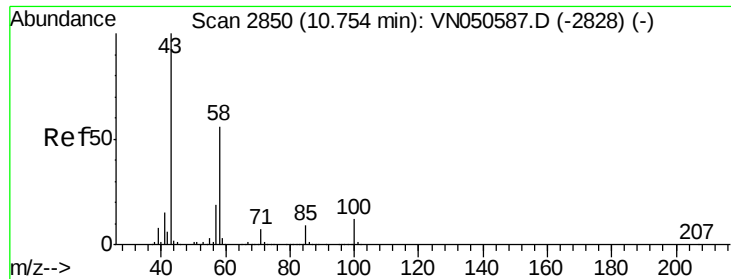
Tgt Ion: 63 Resp: 365225

Ion Ratio Lower Upper

63 100

106 27.3 21.7 32.5





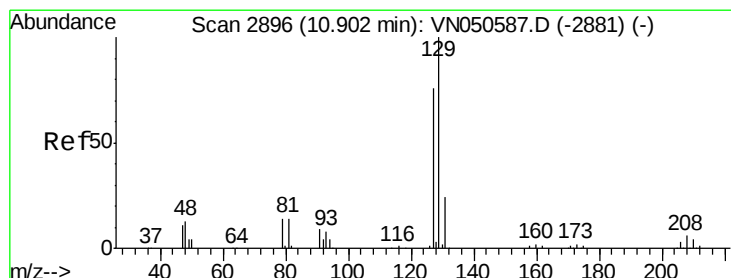
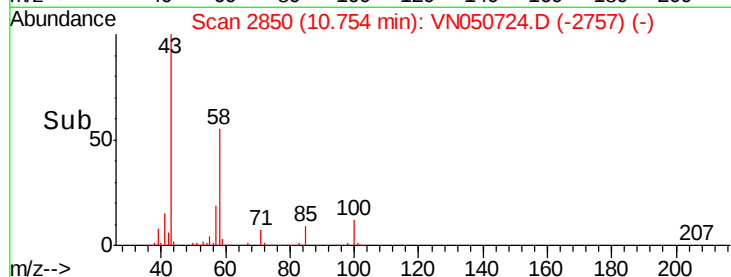
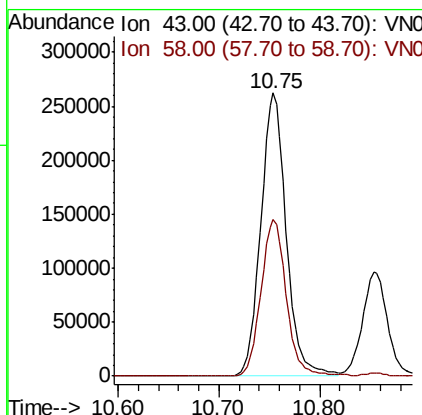
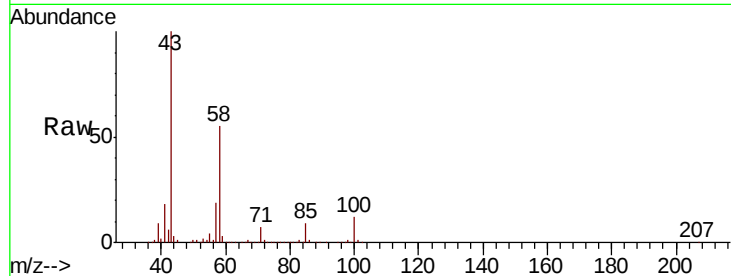
#59
2-Hexanone
Concen: 102.91 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion: 43 Resp: 457225
Ion Ratio Lower Upper
43 100
58 55.6 28.0 84.0

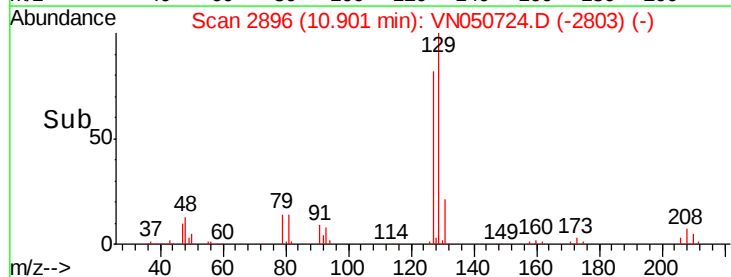
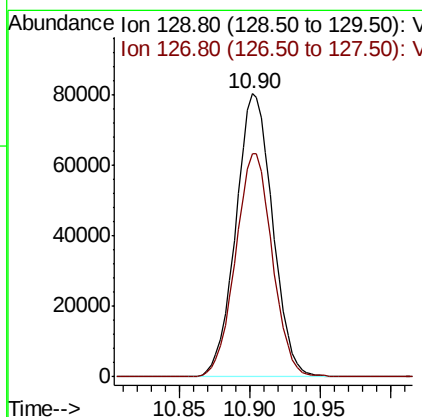
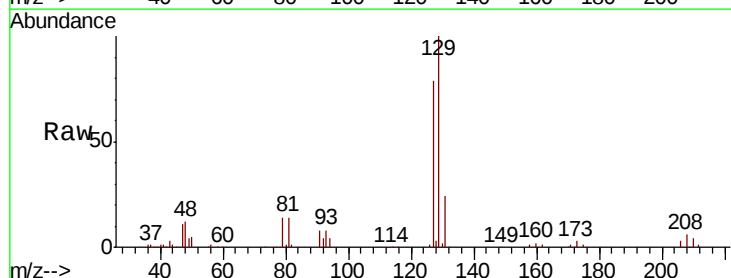
Manual Integrations
APPROVED

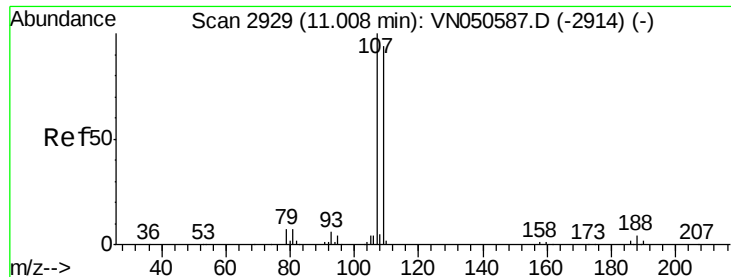
MMDadoda
8/20/2018 10:52:57 AM



#60
Dibromochloromethane
Concen: 19.85 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion: 129 Resp: 146893
Ion Ratio Lower Upper
129 100
127 78.7 38.9 116.7





#61

1,2-Dibromoethane

Concen: 19.72 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 107 Resp: 125910

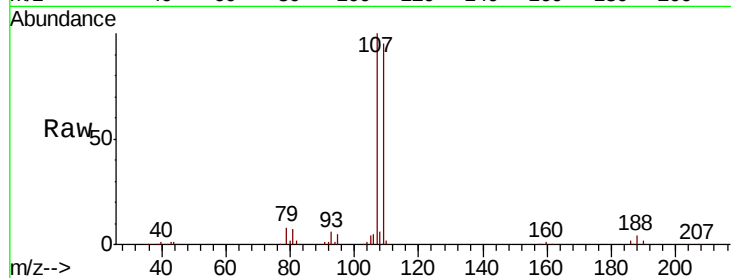
Ion Ratio Lower Upper

107 100

109 94.3 75.7 113.5

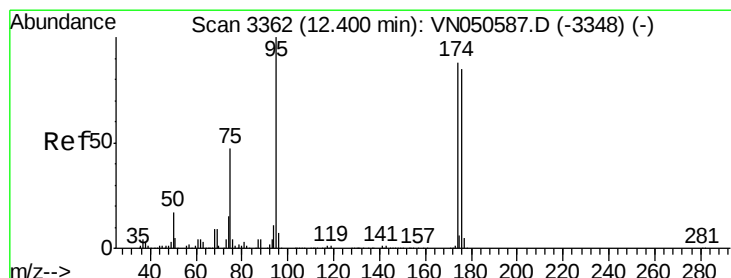
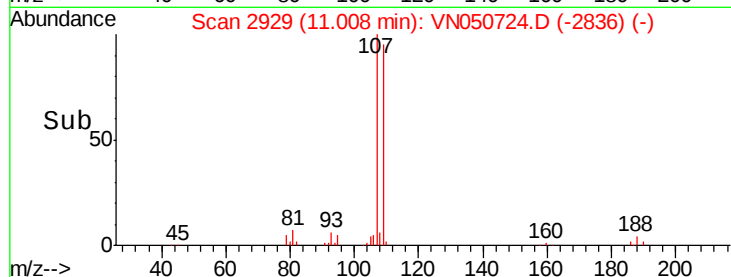
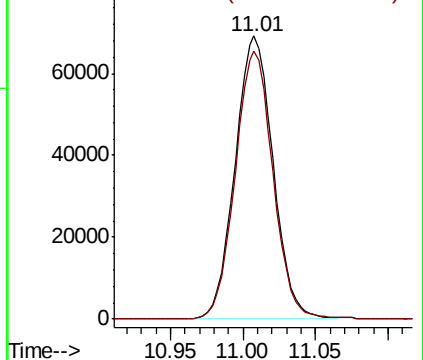
Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

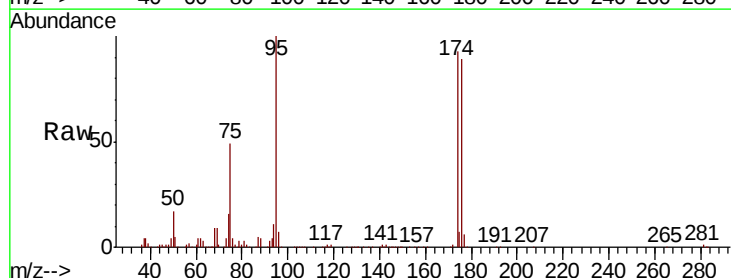
Tgt Ion: 95 Resp: 426393

Ion Ratio Lower Upper

95 100

174 91.2 0.0 177.8

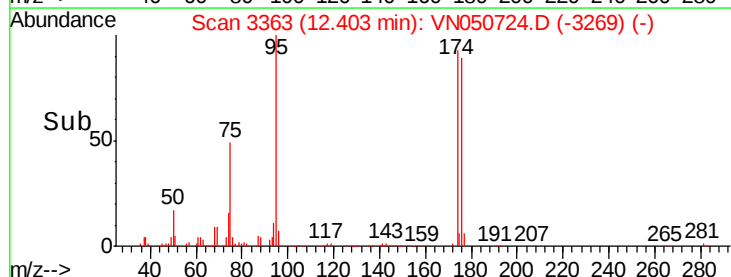
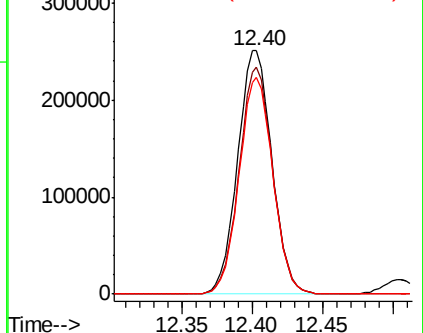
176 87.9 0.0 175.0

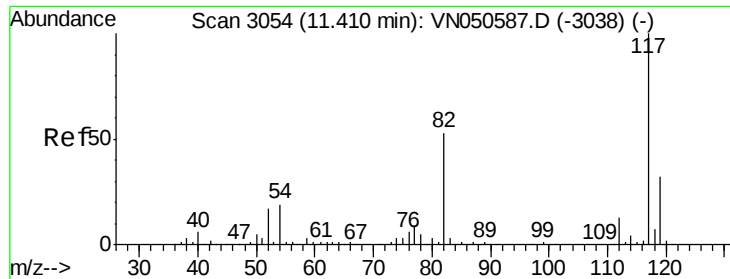


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





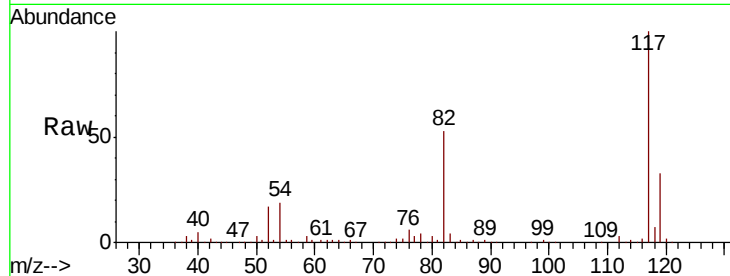
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.4	63.6
119	32.6	25.8	38.8

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM

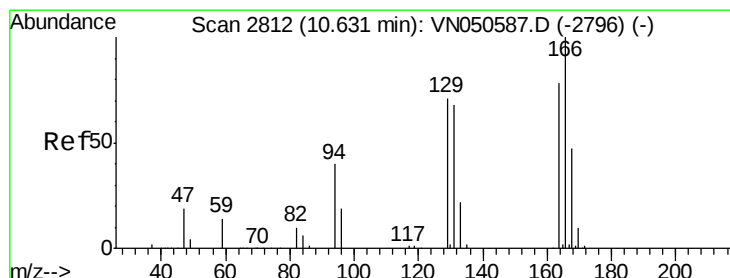
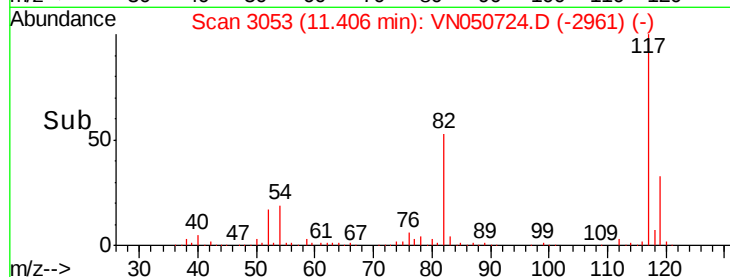
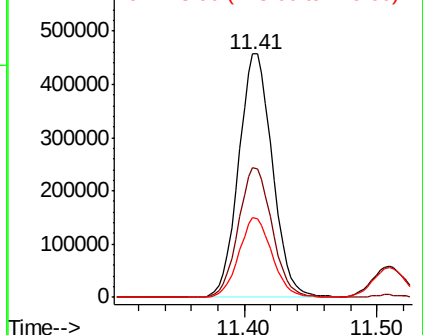


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 18.85 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.9	102.1	153.1
129	91.0	72.7	109.1
131	88.2	69.9	104.9

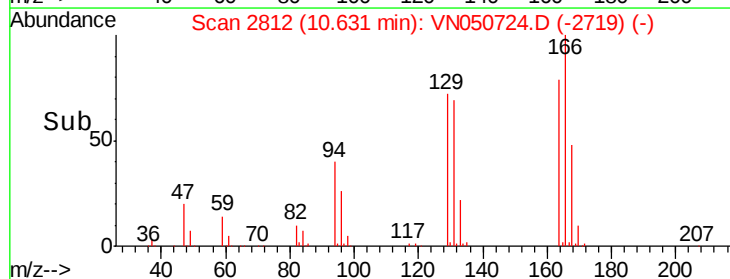
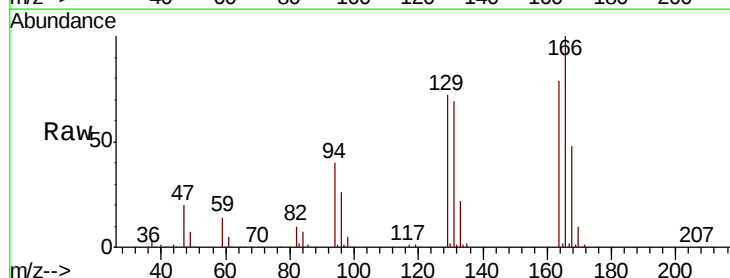
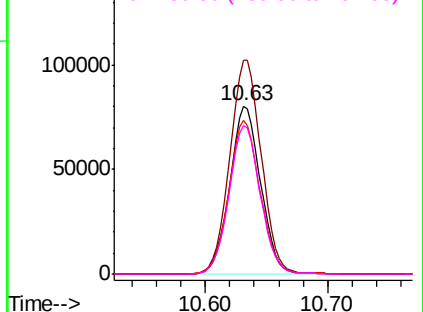
Abundance

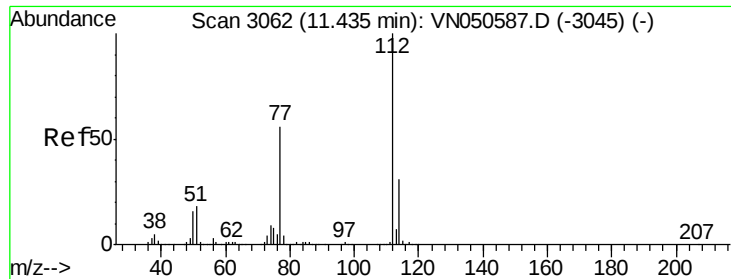
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





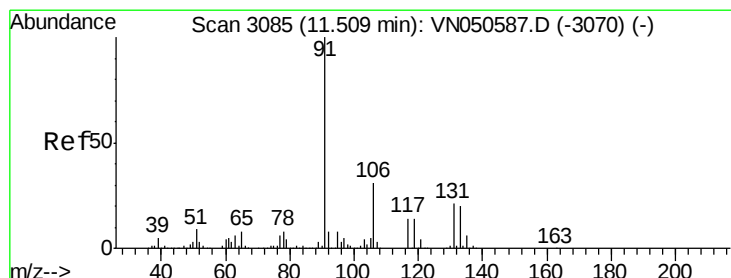
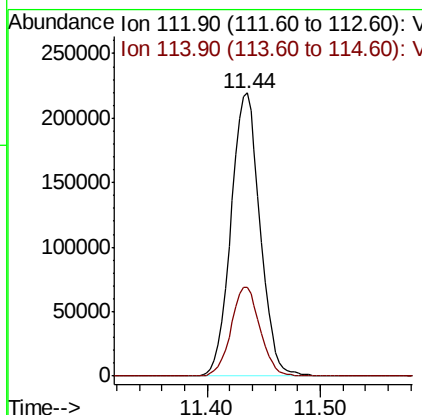
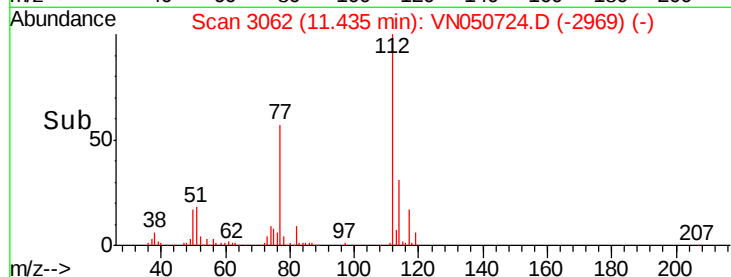
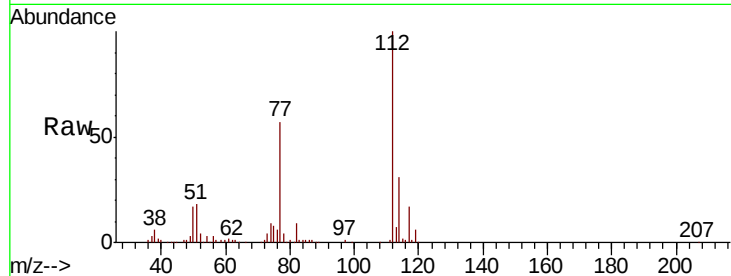
#65
Chlorobenzene
Concen: 19.51 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion	Ratio	Resp	Lower	Upper
112	100	392525		
114	31.4	25.2	37.8	

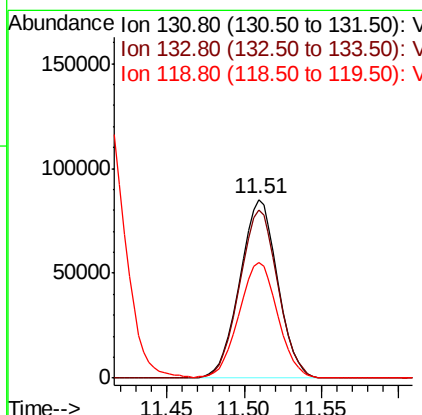
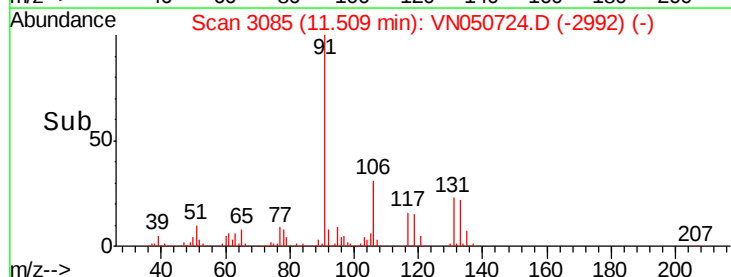
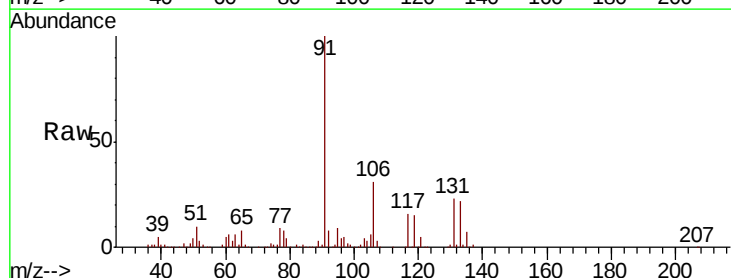
Manual Integrations
APPROVED

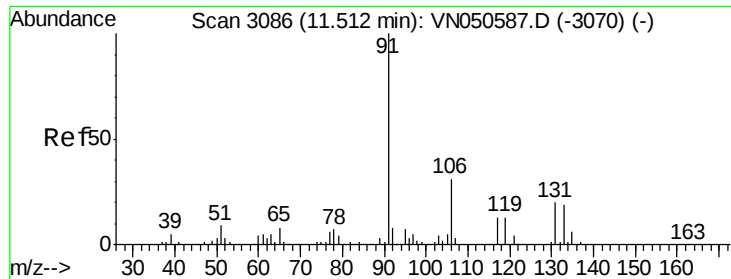
MMDadoda
8/20/2018 10:52:57 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.28 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	145464		
133	95.4	47.6	142.9	
119	66.1	33.1	99.3	





#67

Ethyl Benzene

Concen: 19.81 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampled :

VN0817WBS02

Tot Ion: 91 Resp: 643845

Ion Ratio Lower Upper

91 100

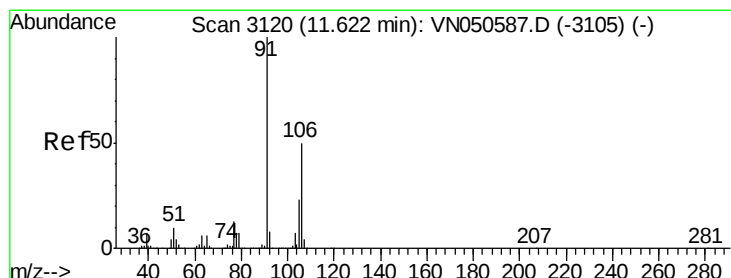
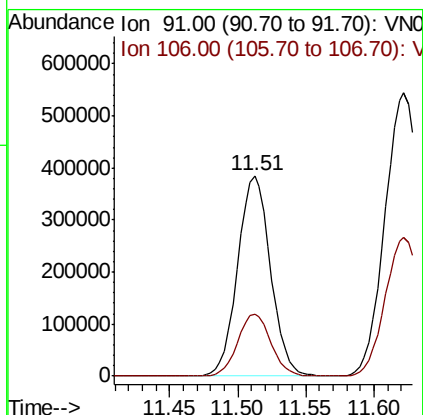
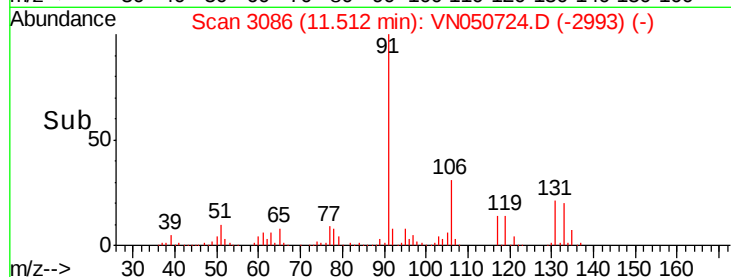
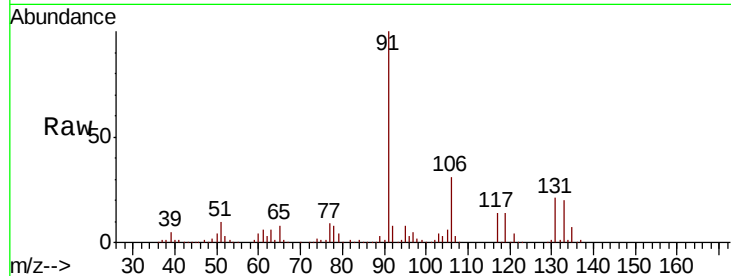
106 31.0 24.8 37.2

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



#68

m/p-Xylenes

Concen: 40.46 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN050724.D

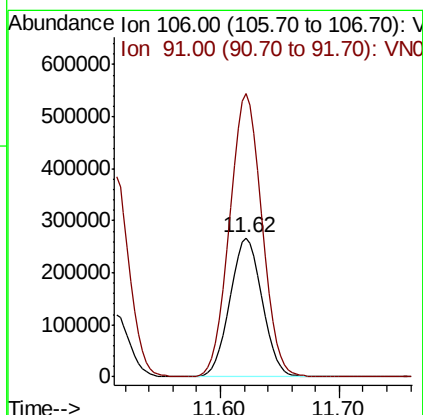
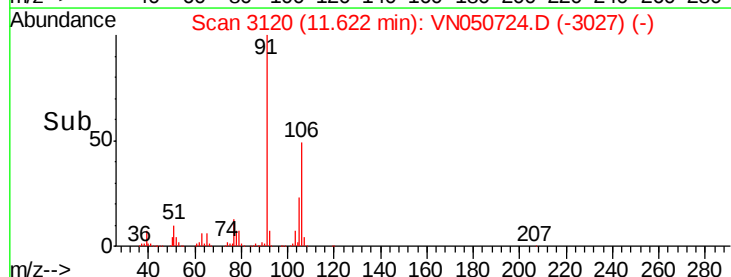
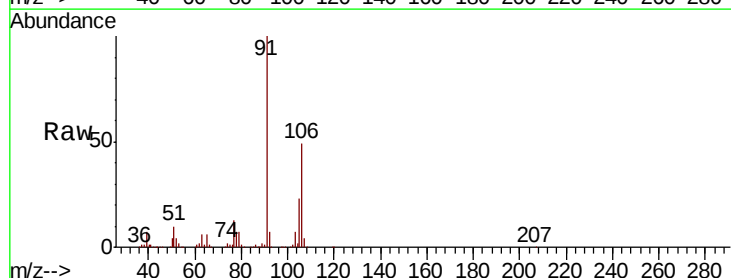
Acq: 17 Aug 2018 12:44

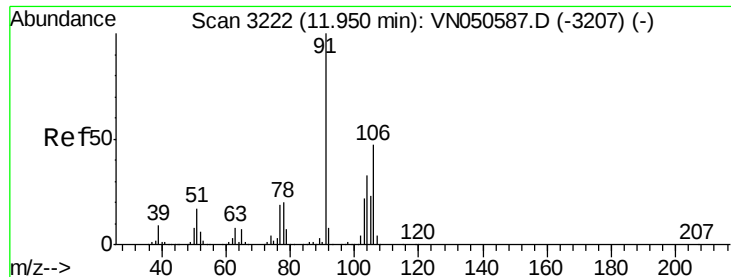
Tgt Ion: 106 Resp: 502879

Ion Ratio Lower Upper

106 100

91 203.2 161.5 242.3





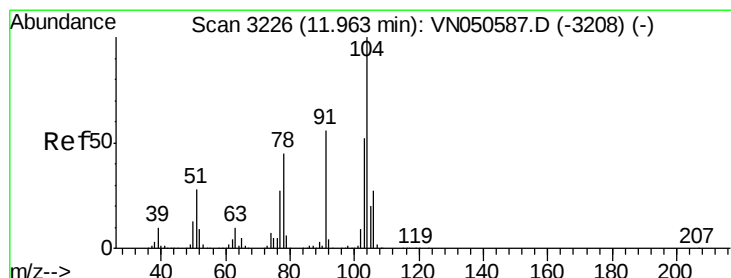
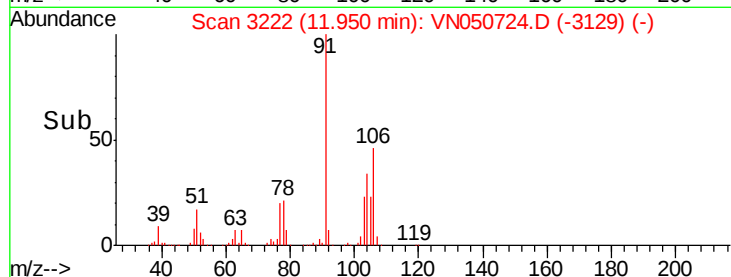
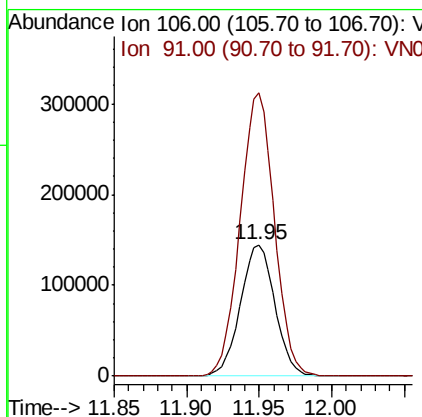
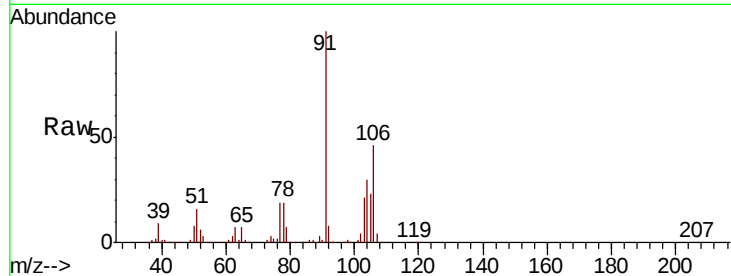
#69
o-Xylene
Concen: 20.21 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampled :
VN0817WBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		239481		
91	214.0	106.8	320.4		

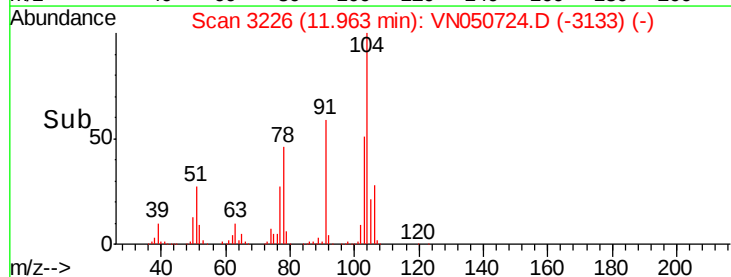
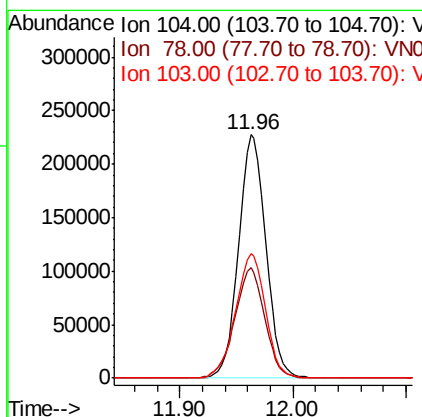
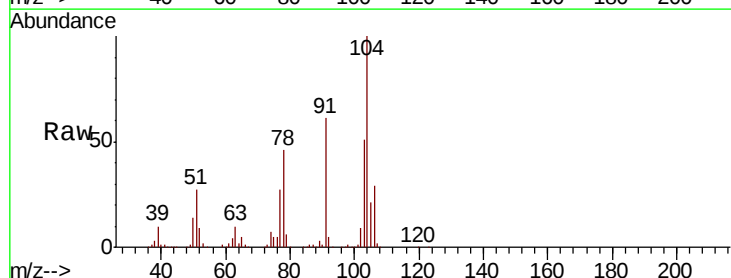
Manual Integrations
APPROVED

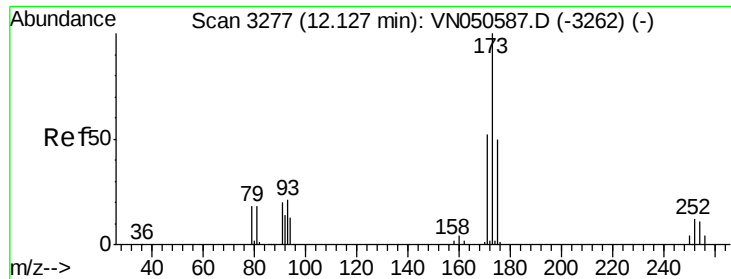
MMDadoda
8/20/2018 10:52:57 AM



#70
Styrene
Concen: 18.75 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		382599		
78	49.7	39.1	58.7		
103	56.0	44.9	67.3		





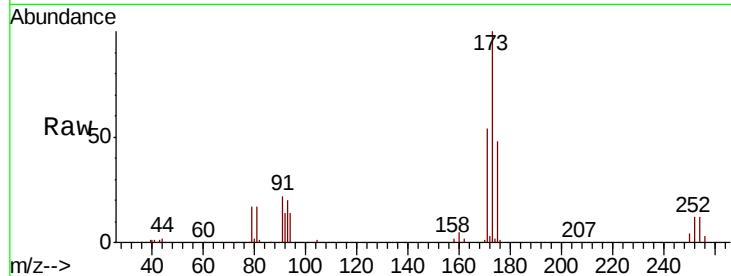
#71
Bromoform
Concen: 19.64 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.4	73.2
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM

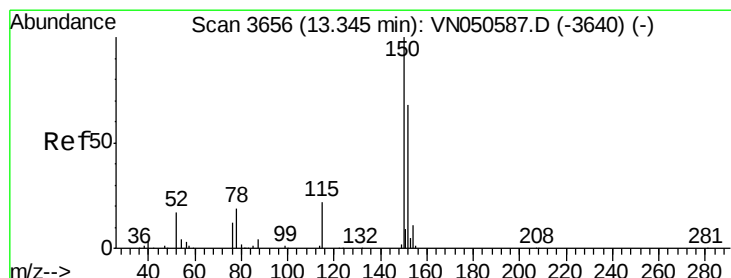
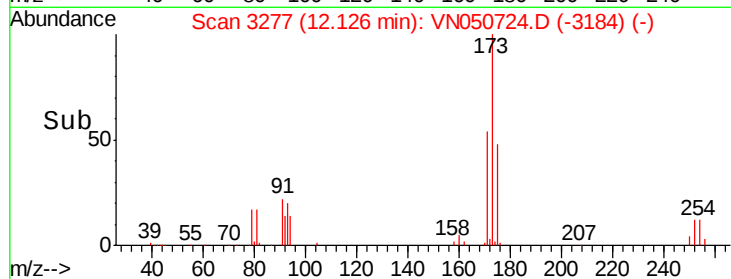
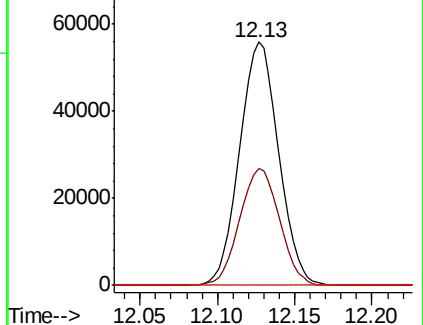


Abundance

Ion 172.70 (172.40 to 173.40): V

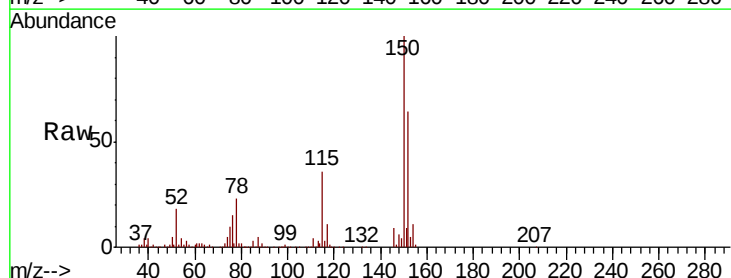
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	28.1	84.2
150	162.9	0.0	347.8

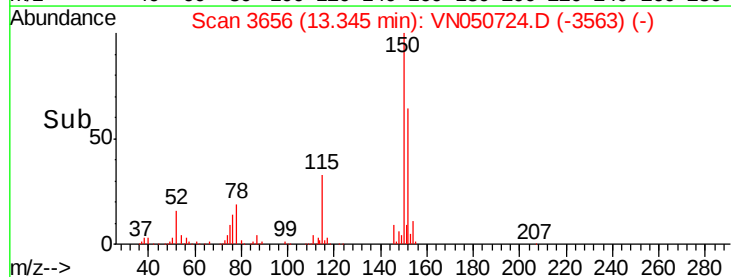
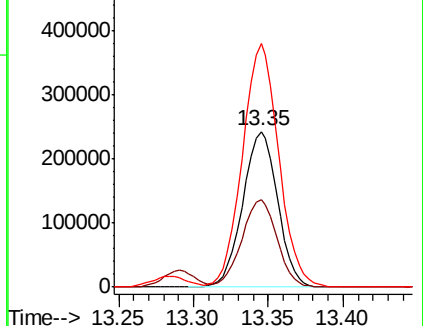


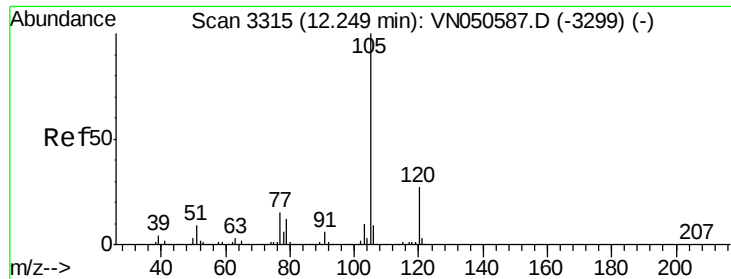
Abundance

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: 20.40 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 105 Resp: 626168

Ion Ratio Lower Upper

105 100

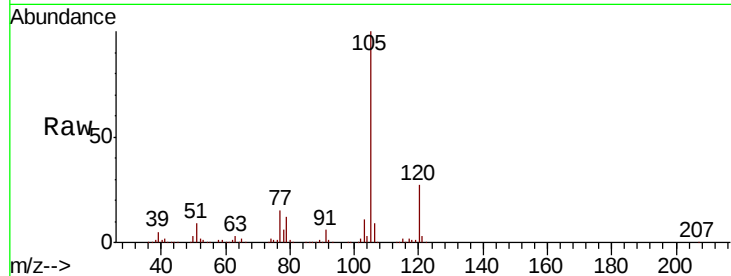
120 26.9 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

400000

300000

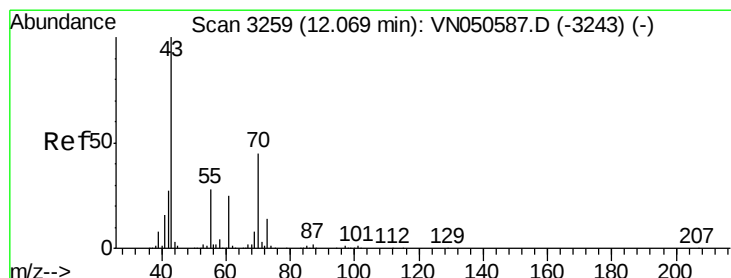
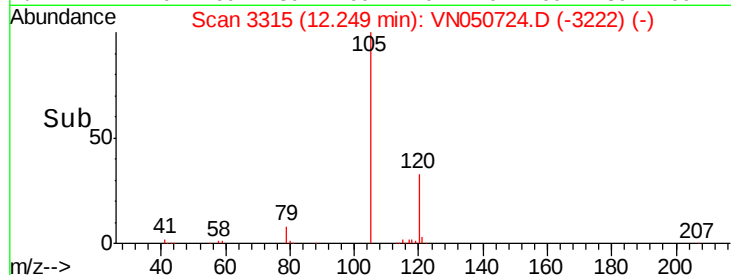
200000

100000

0

Time-->

12.20 12.30



#74

N-ethyl acetate

Concen: 19.89 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion: 43 Resp: 158876

Ion Ratio Lower Upper

43 100

70 44.1 35.9 53.9

55 27.2 22.2 33.4

61 23.7 20.0 30.0

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

150000

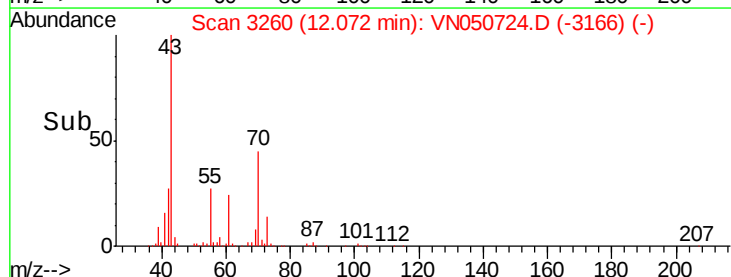
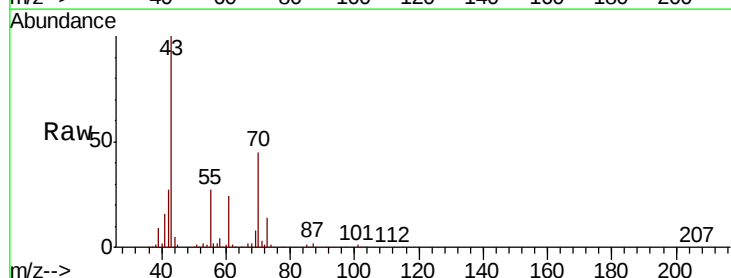
100000

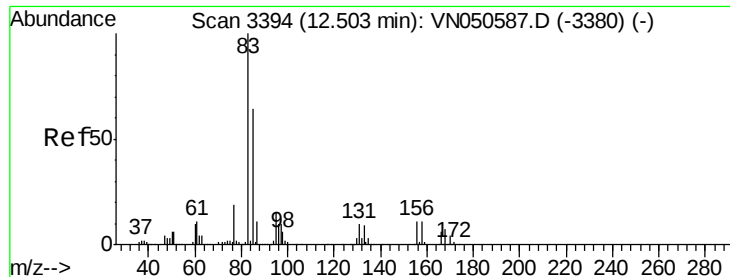
50000

0

Time-->

12.00 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 21.80 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

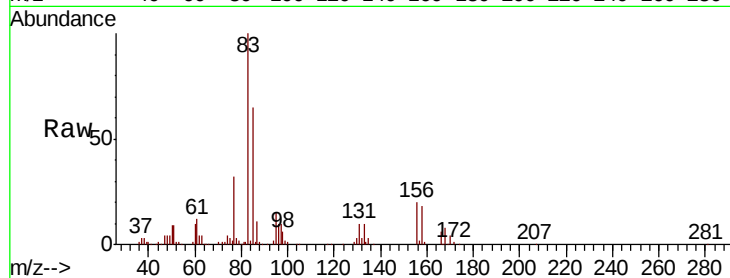
ClientSampleId :

VN0817WBS02

Tot Ion:	83	Resp:	164725
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	15.9
85	64.6	32.1	96.5

Manual Integrations
APPROVED

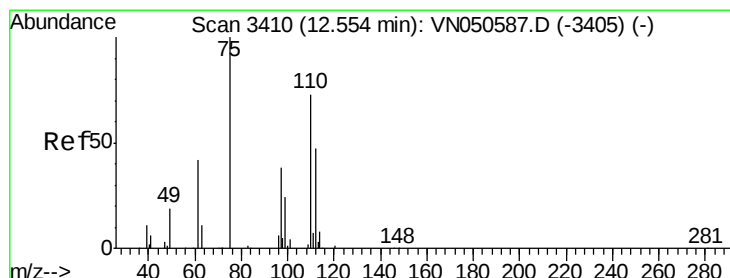
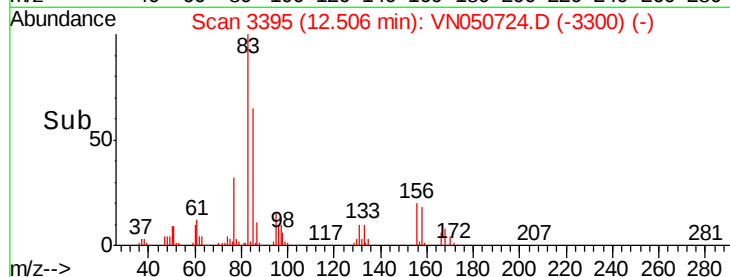
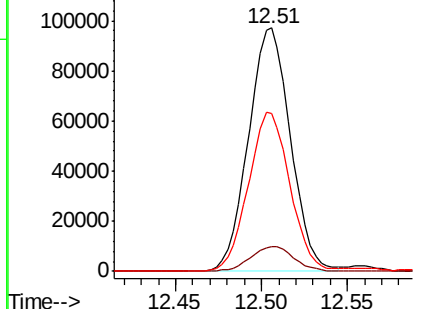
MMDadoda
8/20/2018 10:52:57 AM



Abundance Ion 82.90 (82.60 to 83.60): VN050587.D (-3380) (-)

Ion 130.80 (130.50 to 131.50): VN050587.D (-3380) (-)

Ion 84.90 (84.60 to 85.60): VN050587.D (-3380) (-)



#76

1,2,3-Trichloropropane

Concen: 20.84 ug/l m

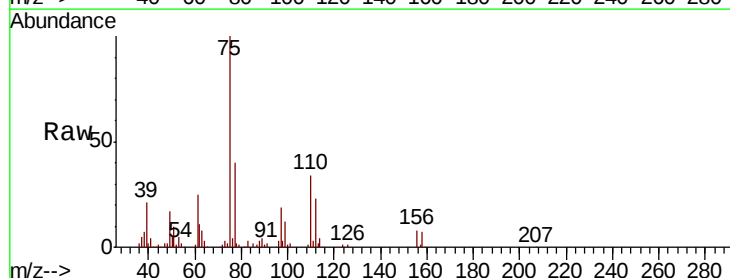
RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN050724.D

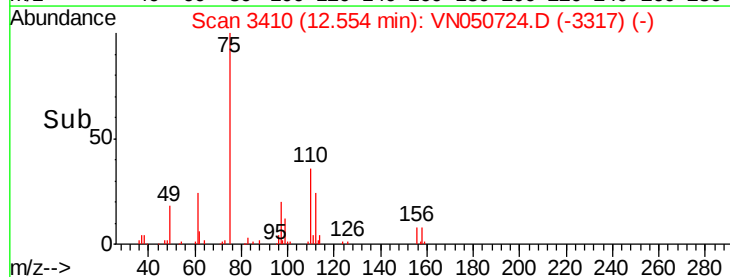
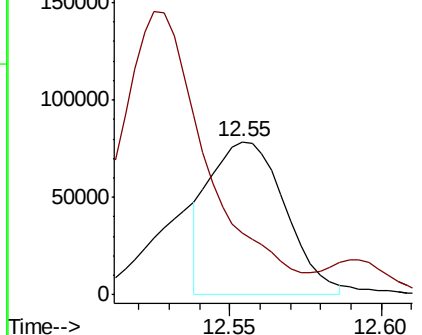
Acq: 17 Aug 2018 12:44

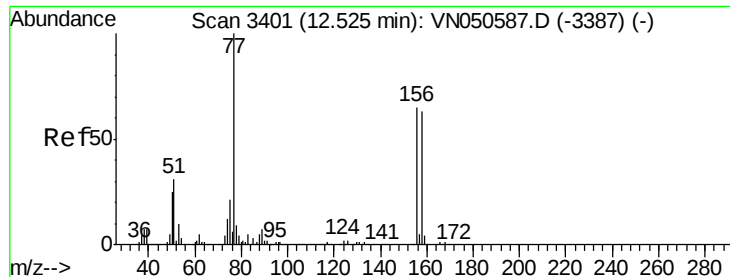
Tgt Ion:	75	Resp:	136113
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050587.D (-3405) (-)

Ion 77.00 (76.70 to 77.70): VN050587.D (-3405) (-)





#77

Bromobenzene

Concen: 19.97 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

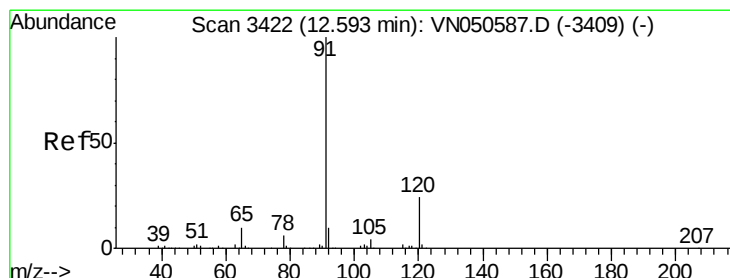
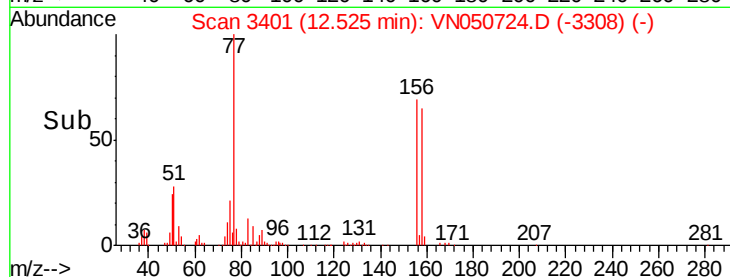
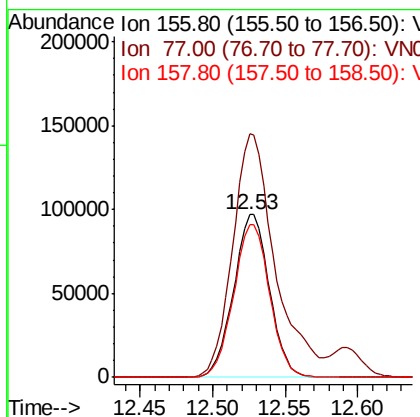
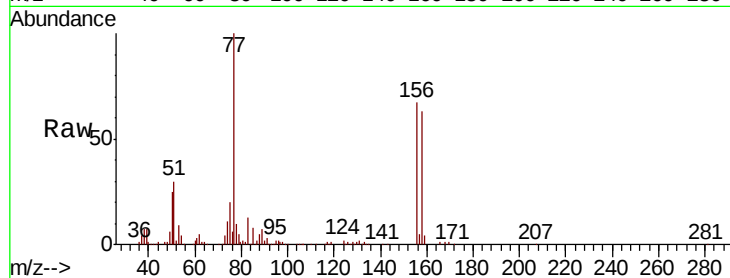
ClientSampleId :

VN0817WBS02

Tot Ion:	156	Resp:	166445
Ion Ratio	Lower	Upper	
156	100		
77	177.5	89.0	267.1
158	94.6	48.5	145.6

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#78

n-propylbenzene

Concen: 20.84 ug/l

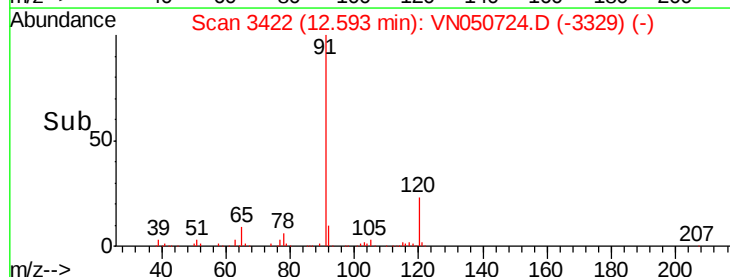
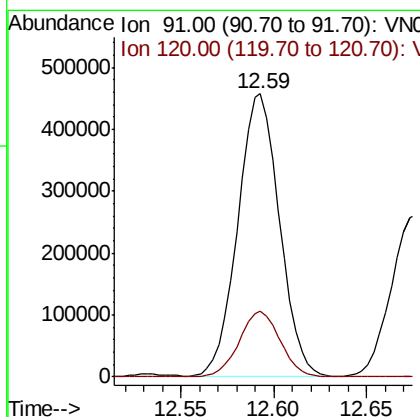
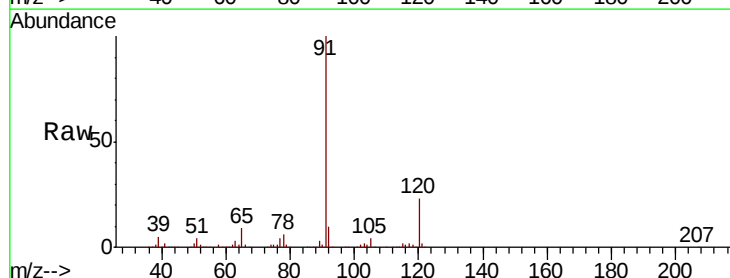
RT: 12.59 min Scan# 3422

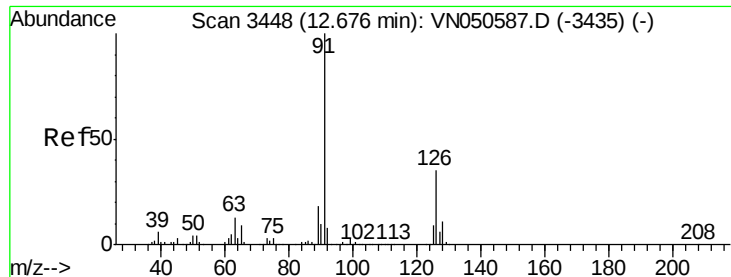
Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	91	Resp:	713448
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.8	35.4





#79

2-Chlorotoluene

Concen: 20.35 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 91 Resp: 434349

Ion Ratio Lower Upper

91 100

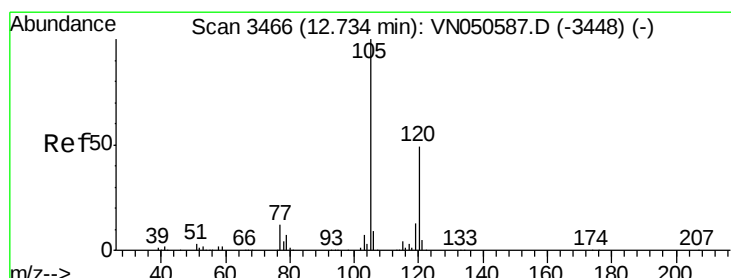
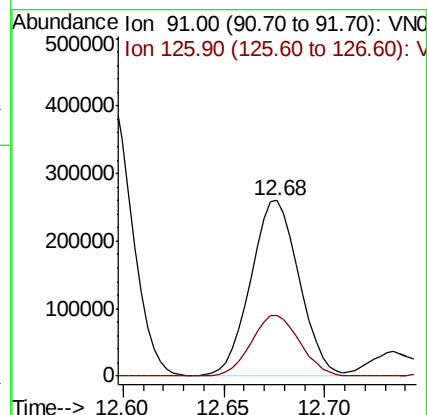
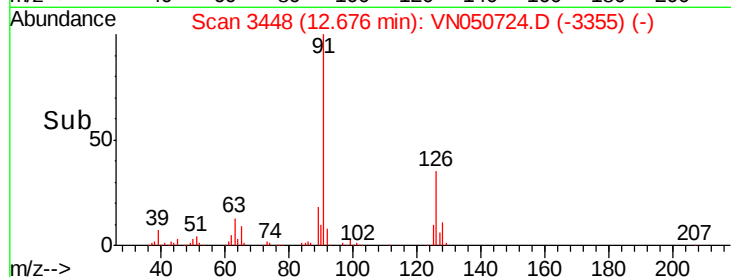
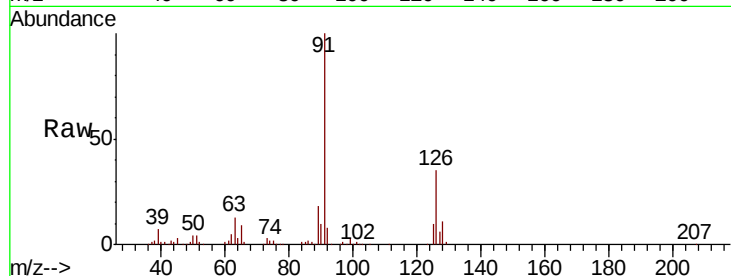
126 35.1 17.6 52.8

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:52:57 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.48 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050724.D

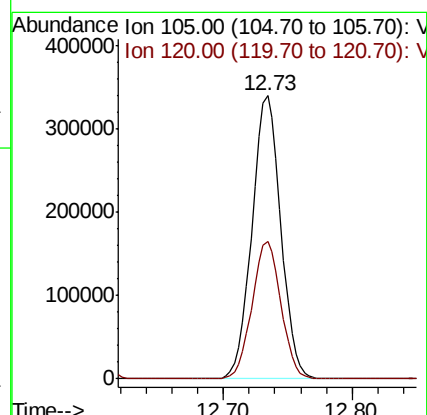
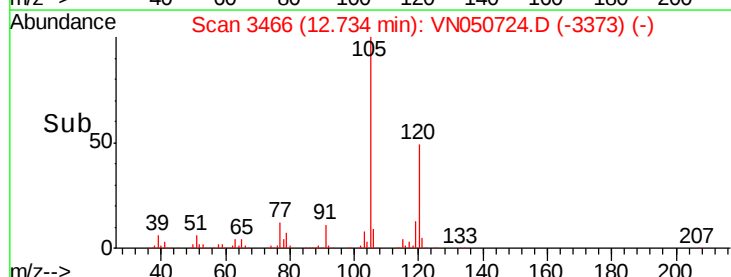
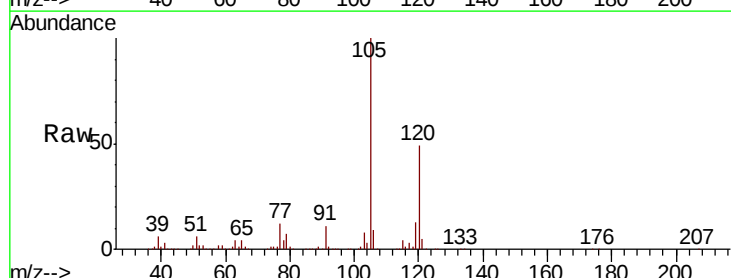
Acq: 17 Aug 2018 12:44

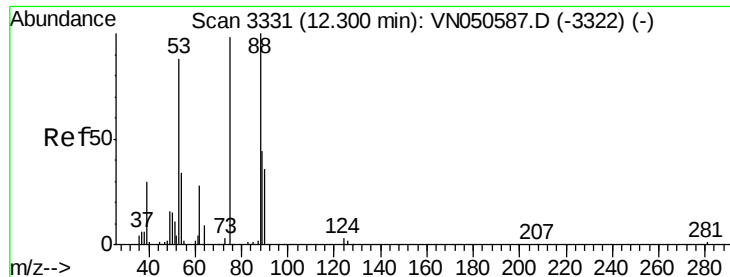
Tgt Ion: 105 Resp: 528010

Ion Ratio Lower Upper

105 100

120 48.9 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 20.55 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion: 75 Resp: 36312

Ion Ratio Lower Upper

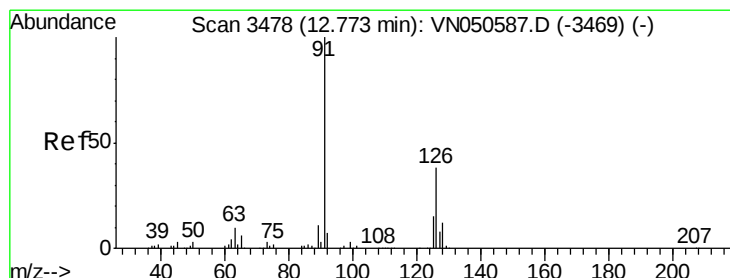
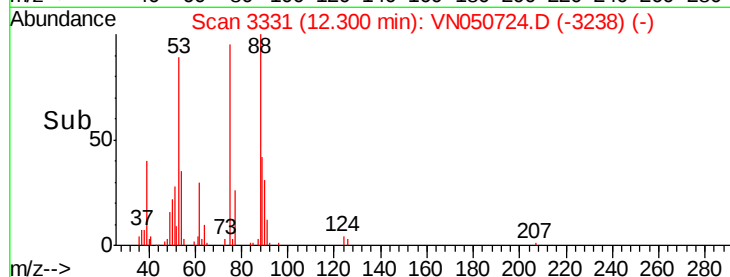
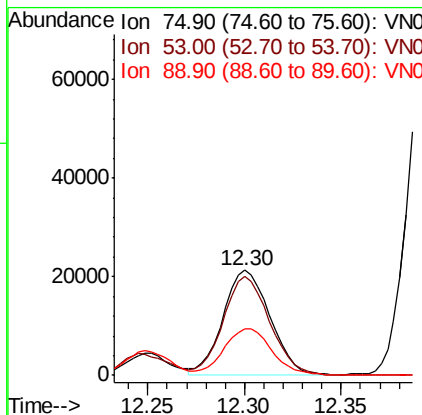
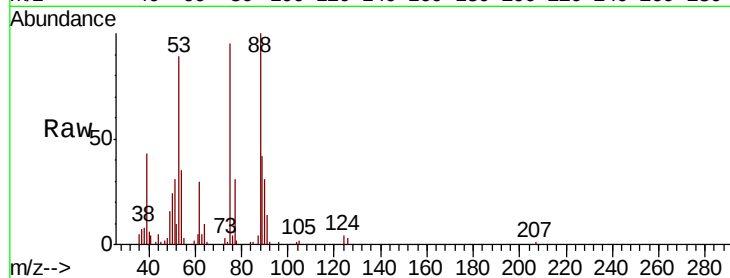
75 100

53 92.6 72.2 108.2

89 45.0 36.3 54.5

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#82

4-Chlorotoluene

Concen: 20.57 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. -0.00 min

Lab File: VN050724.D

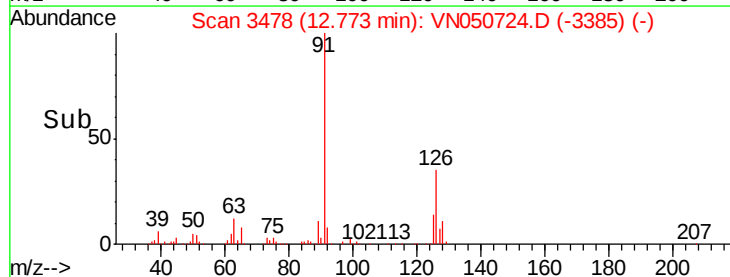
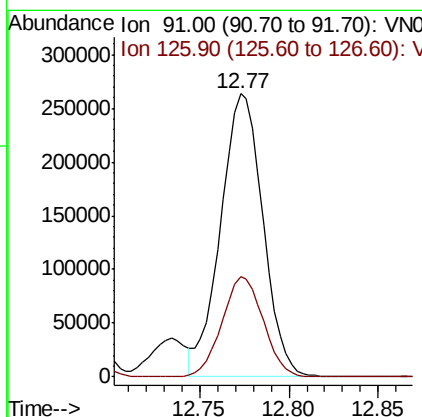
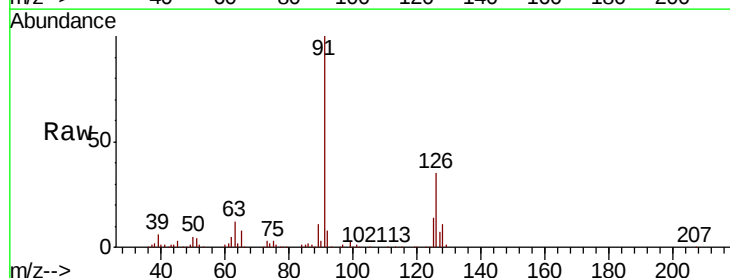
Acq: 17 Aug 2018 12:44

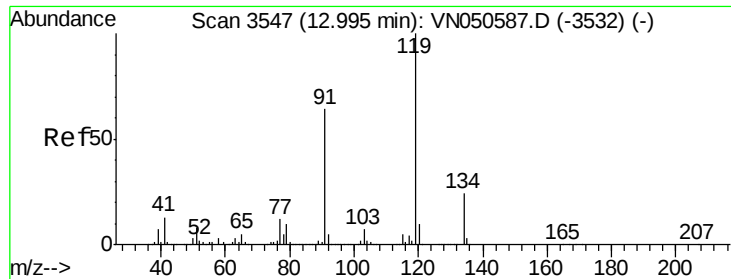
Tgt Ion: 91 Resp: 433757

Ion Ratio Lower Upper

91 100

126 34.8 17.3 52.0





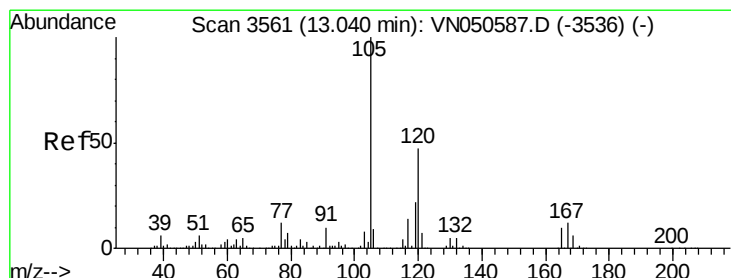
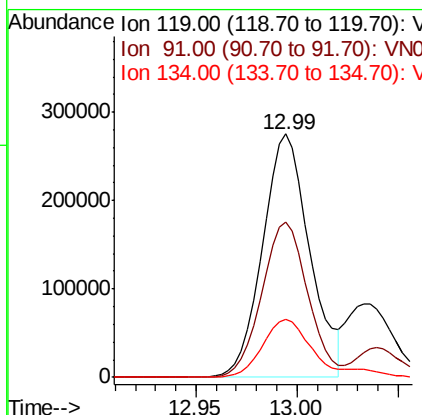
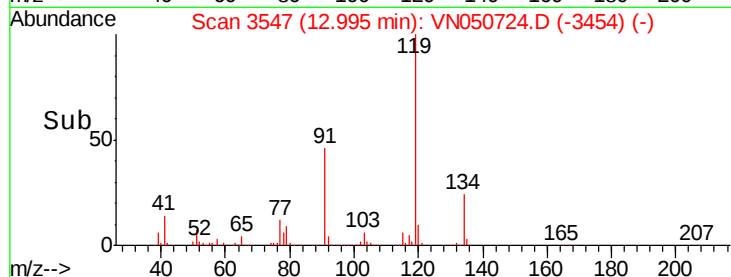
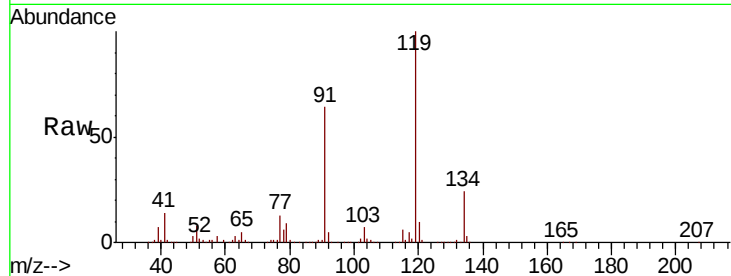
#83
 tert-Butylbenzene
 Concen: 21.00 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	448118		
91	62.5		32.2	96.6
134	24.0		13.4	40.2

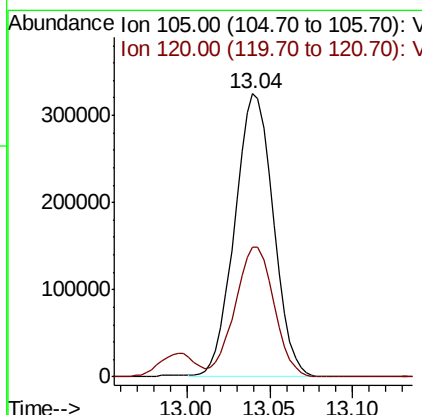
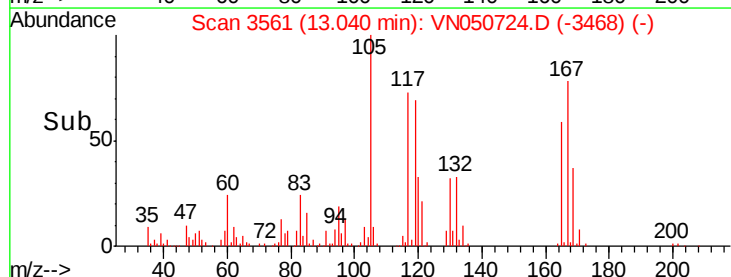
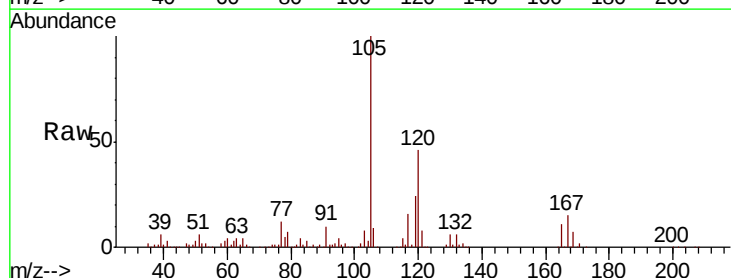
Manual Integrations
 APPROVED

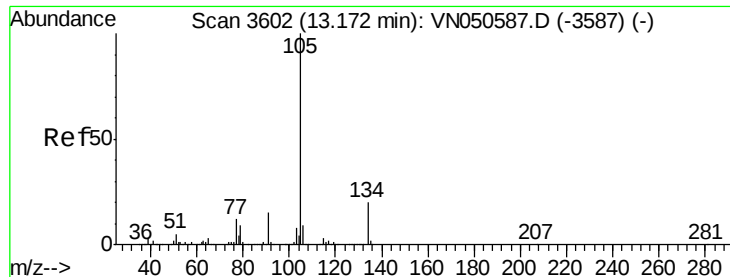
MMDadoda
 8/20/2018 10:52:57 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.27 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	524782		
120	46.6		23.2	69.5





#85

sec-Butylbenzene

Concen: 20.86 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBS02

Tot Ion:105 Resp: 581633

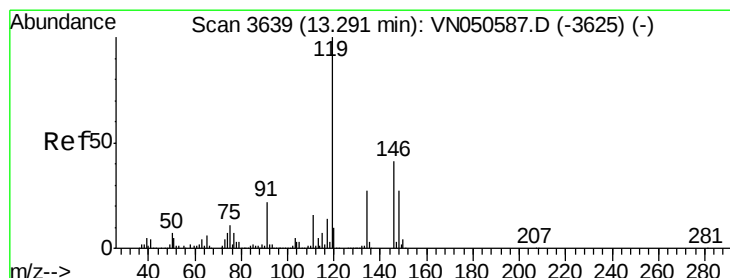
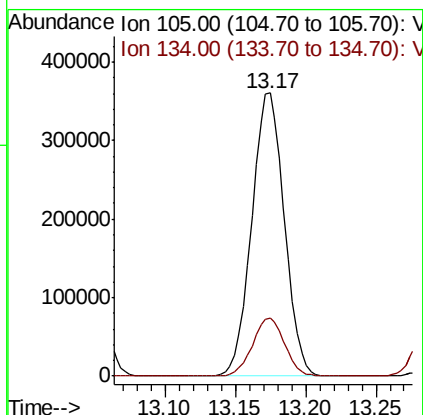
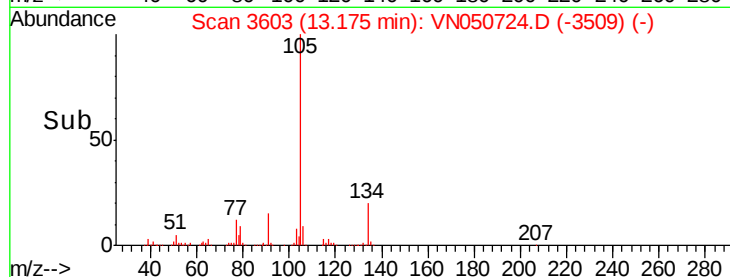
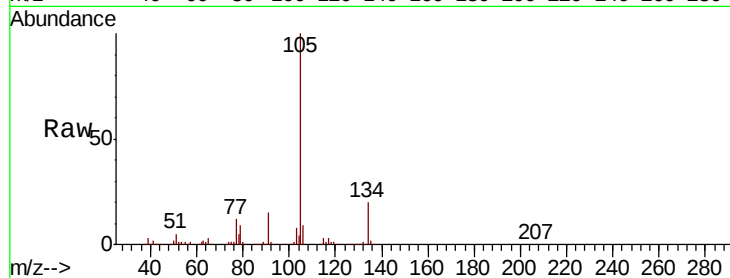
Ion Ratio Lower Upper

105 100

134 20.2 10.1 30.3

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#86

p-Isopropyltoluene

Concen: 21.10 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

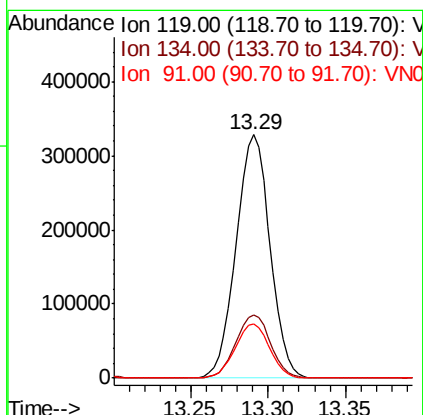
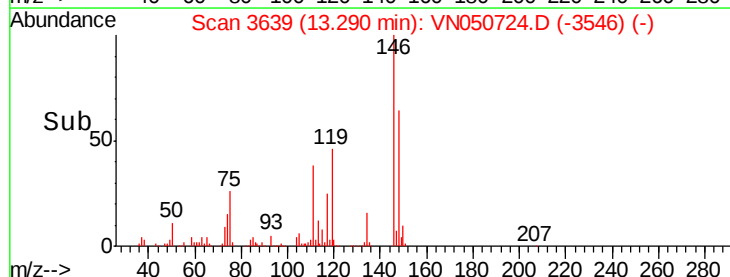
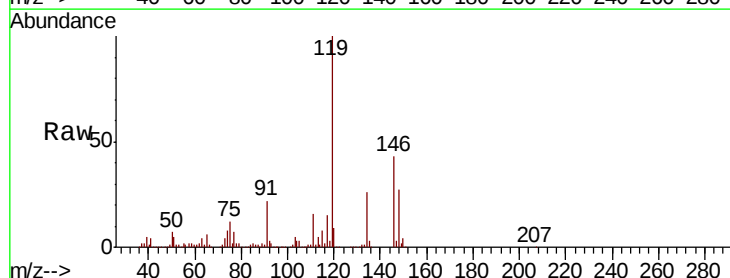
Tgt Ion:119 Resp: 498596

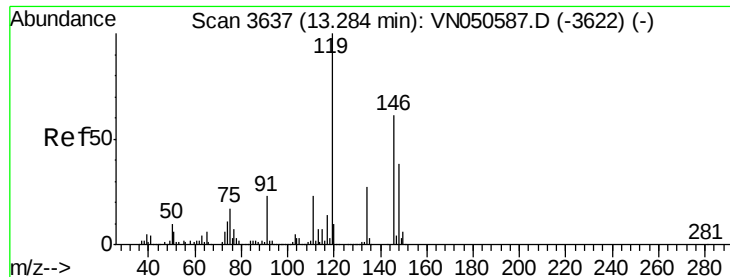
Ion Ratio Lower Upper

119 100

134 26.5 13.5 40.4

91 22.5 11.2 33.6





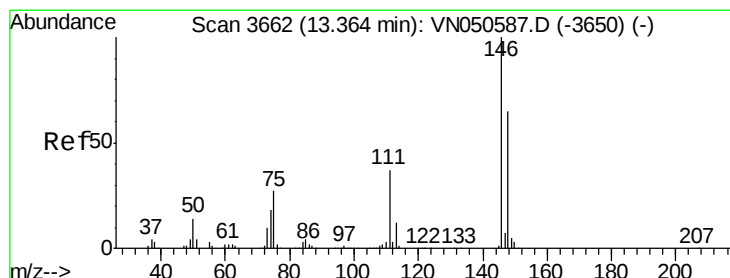
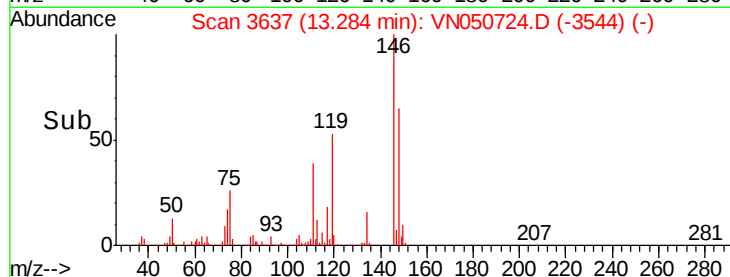
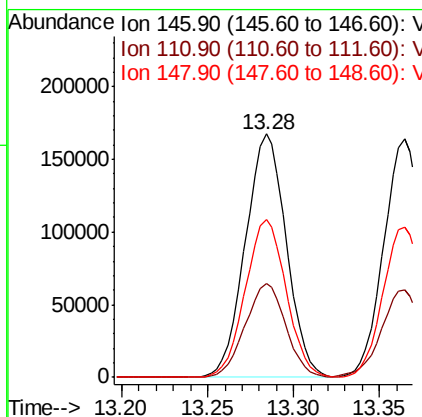
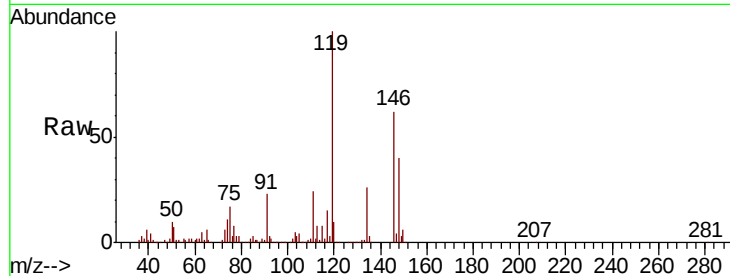
#87
 1,3-Dichlorobenzene
 Concen: 19.51 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.2	57.6
148	64.6	31.9	95.7

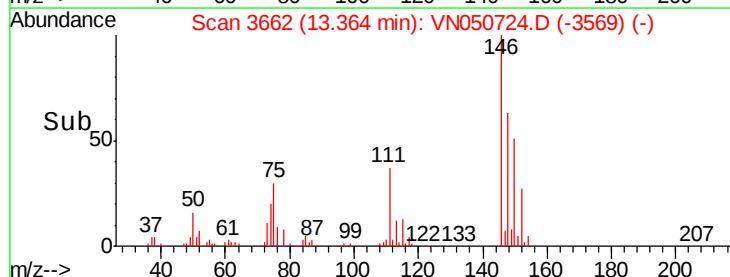
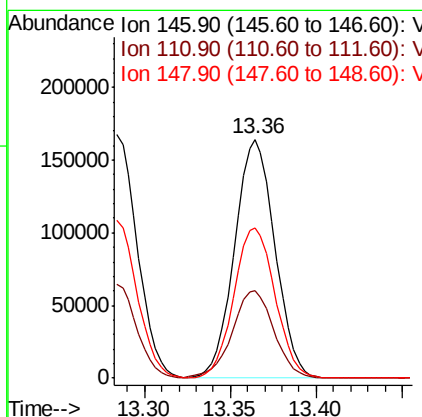
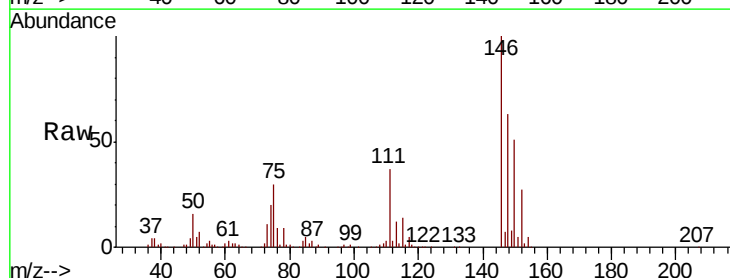
Manual Integrations
 APPROVED

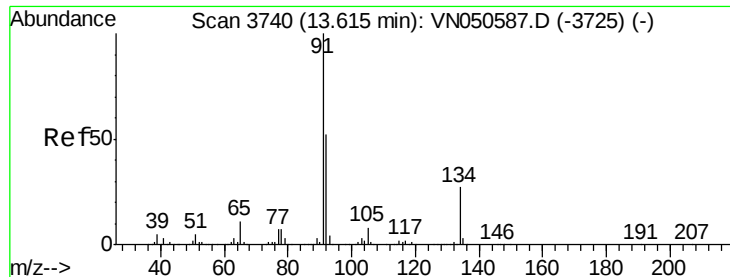
MMDadoda
 8/20/2018 10:52:57 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.01 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.8	56.4
148	64.7	32.3	96.8





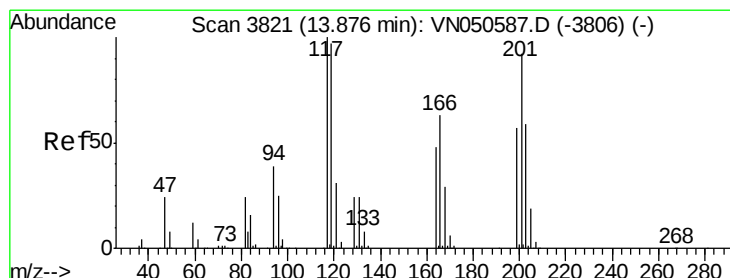
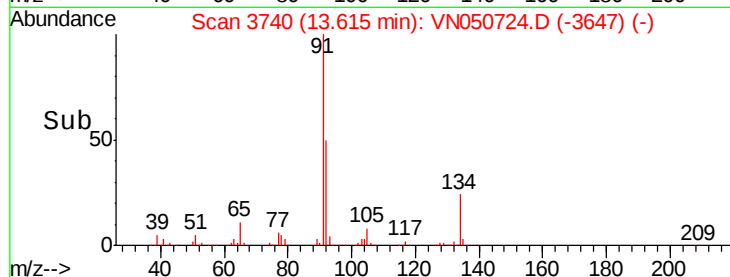
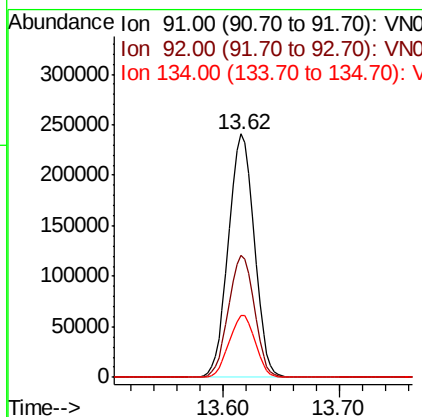
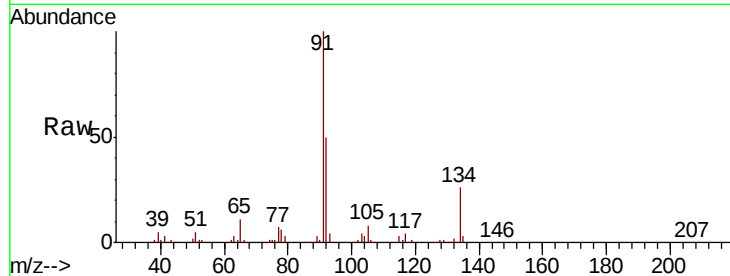
#89
n-Butylbenzene
Concen: 19.42 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.2	26.3	78.8
134	25.7	13.3	39.9

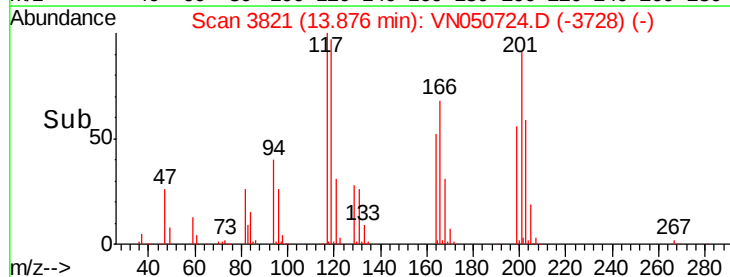
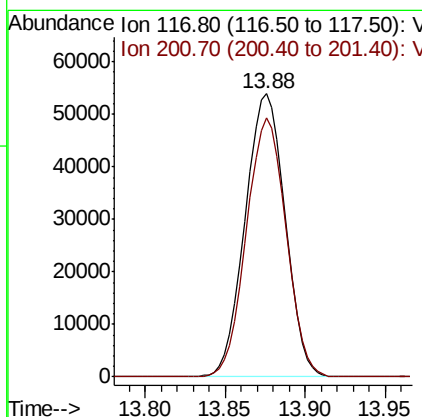
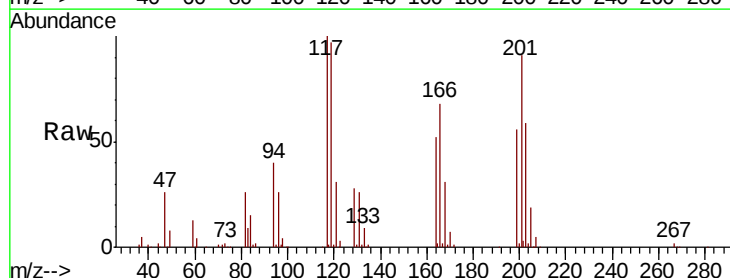
Manual Integrations
APPROVED

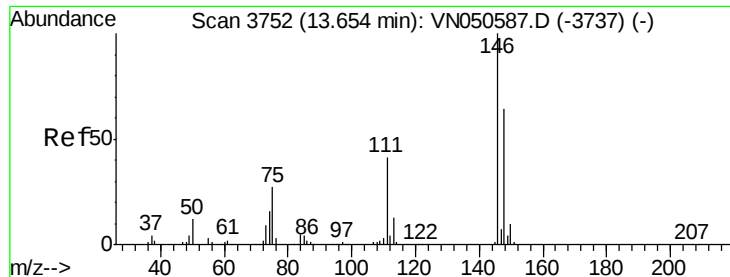
MMDadoda
8/20/2018 10:52:57 AM



#90
Hexachloroethane
Concen: 19.46 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN050724.D
Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.4	45.5	136.5





#91

1,2-Dichlorobenzene

Concen: 19.63 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

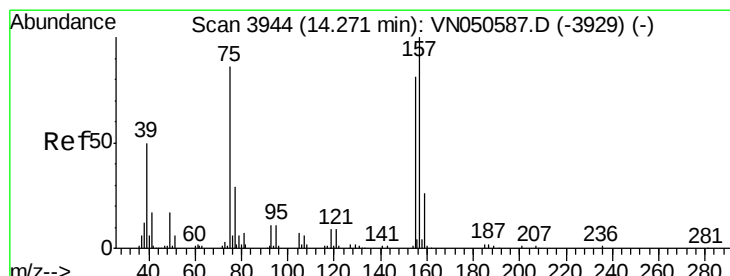
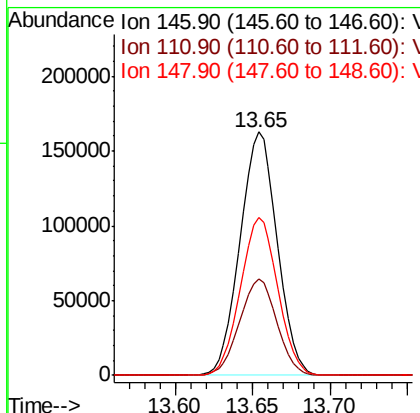
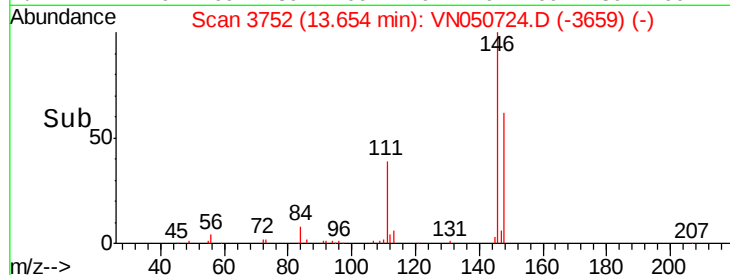
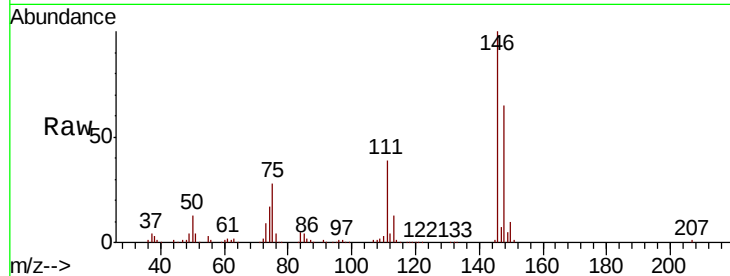
ClientSampleId :

VN0817WBS02

Tot Ion:	146	Resp:	271789
Ion Ratio	Lower	Upper	
146	100		
111	39.7	19.8	59.4
148	65.2	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.89 ug/l

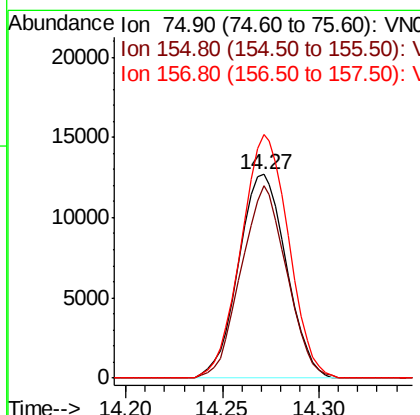
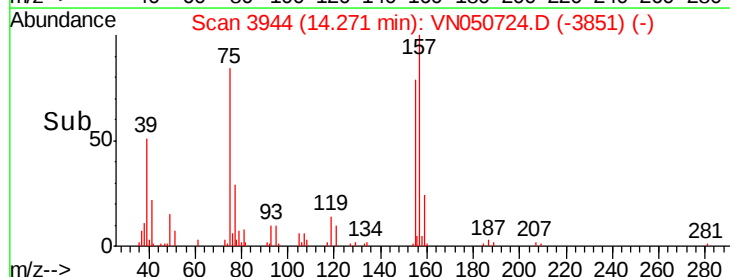
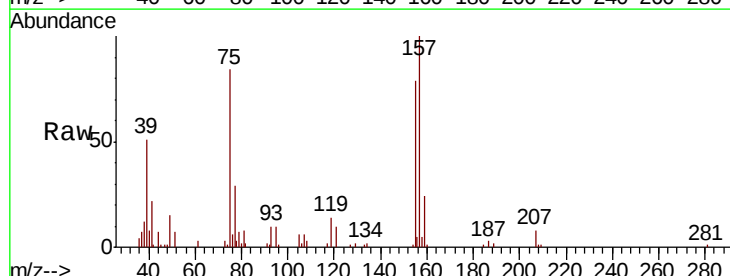
RT: 14.27 min Scan# 3944

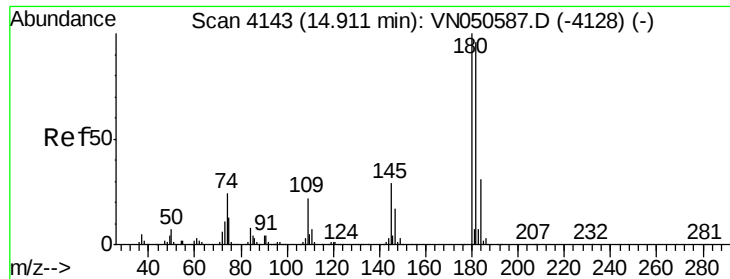
Delta R.T. -0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	75	Resp:	21786
Ion Ratio	Lower	Upper	
75	100		
155	90.0	46.6	139.8
157	118.5	58.1	174.2





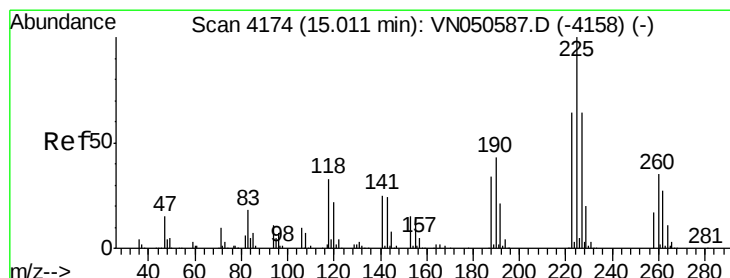
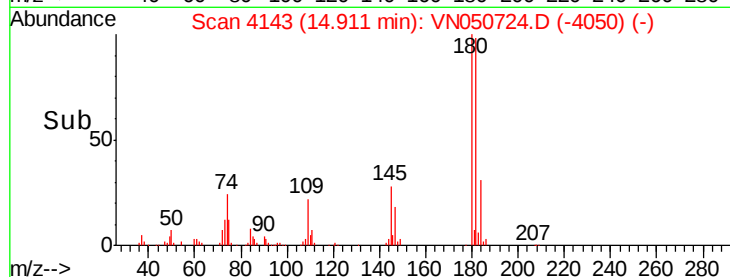
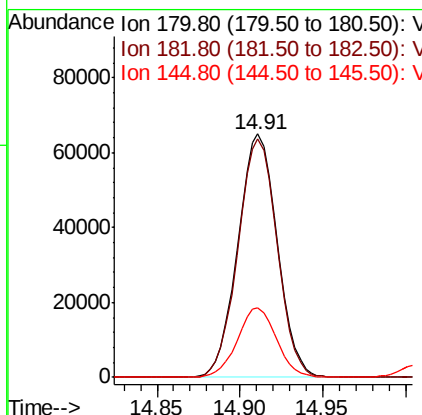
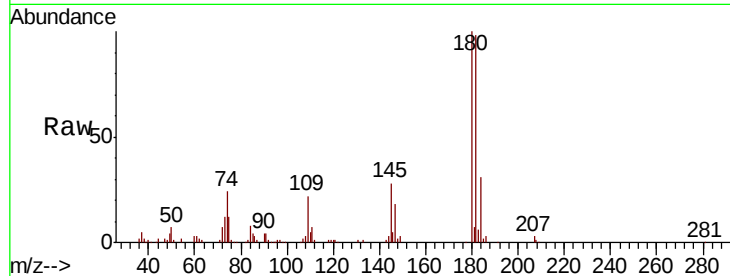
#93
 1,2,4-Trichlorobenzene
 Concen: 16.98 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	107397		
182	97.3	47.9	143.7	
145	28.3	14.4	43.4	

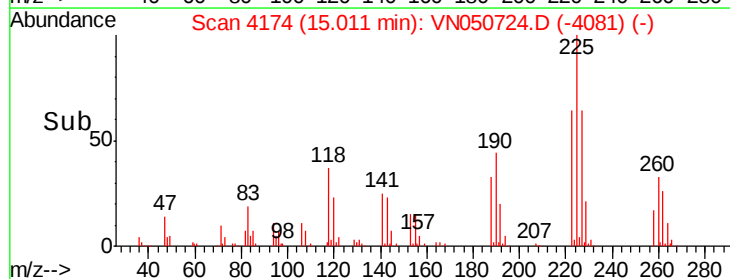
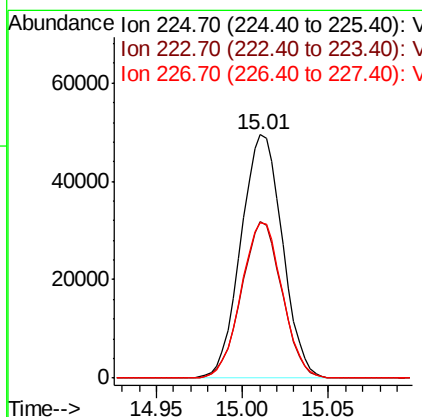
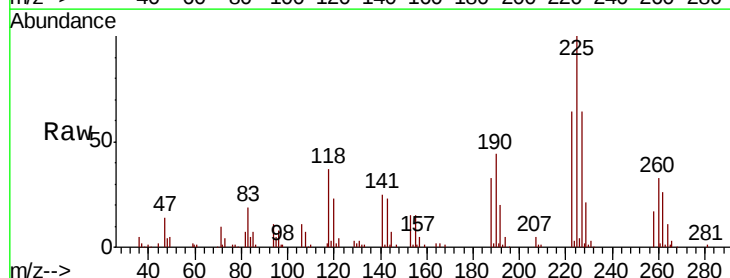
Manual Integrations
 APPROVED

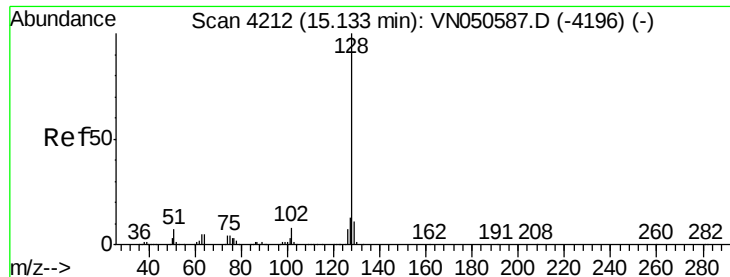
MMDadoda
 8/20/2018 10:52:57 AM



#94
 Hexachlorobutadiene
 Concen: 19.59 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050724.D
 Acq: 17 Aug 2018 12:44

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	83129		
223	62.5	32.1	96.3	
227	63.3	32.0	96.2	





#95

Naphthalene

Concen: 16.09 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Instrument :

MSVOA_N

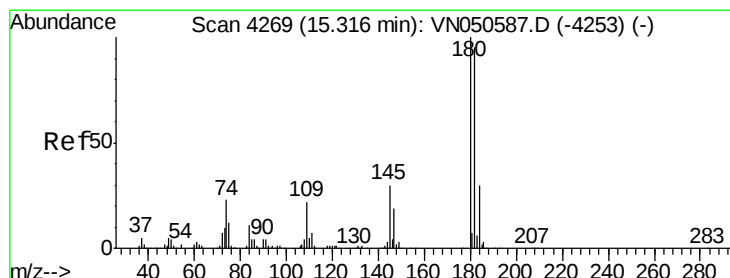
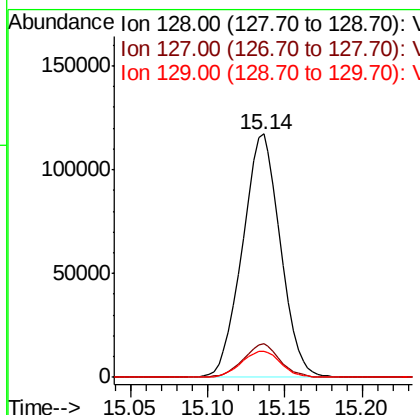
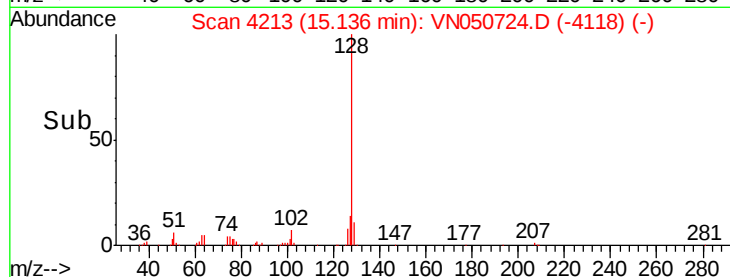
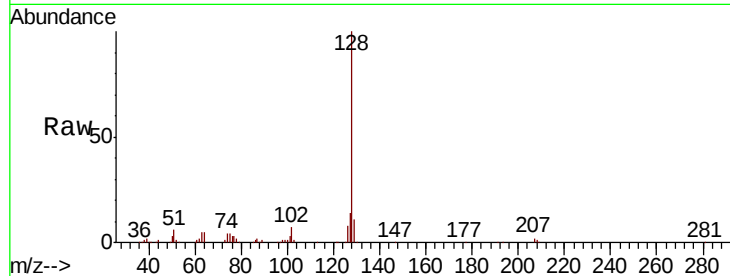
ClientSampleId :

VN0817WBS02

Tot Ion:	128	Resp:	200372
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.3	15.5
129	11.1	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:52:57 AM



#96

1,2,3-Trichlorobenzene

Concen: 17.77 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050724.D

Acq: 17 Aug 2018 12:44

Tgt Ion:	180	Resp:	109326
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.3	141.8
145	29.1	14.6	44.0

