

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080718\
 Data File : VN050436.D
 Acq On : 7 Aug 2018 17:05
 Operator : MD\SY
 Sample : VN0807MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/8/2018 10:47:53 AM

Quant Time: Aug 08 07:02:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	776947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1178682	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1058137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	574789	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	496248	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	
35) Dibromofluoromethane	7.59	113	452972	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	
50) Toluene-d8	10.09	98	1705159	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	
62) 4-Bromofluorobenzene	12.40	95	585461	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.85	85	155719	18.06	ug/l	99
3) Chloromethane	2.06	50	197358	18.44	ug/l	99
4) Vinyl Chloride	2.18	62	209175	18.74	ug/l	99
5) Bromomethane	2.56	94	124911	23.17	ug/l	99
6) Chloroethane	2.70	64	127841	18.59	ug/l	98
7) Trichlorofluoromethane	3.01	101	279856	19.41	ug/l	99
8) Diethyl Ether	3.41	74	105864	20.02	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	174339	19.57	ug/l	99
10) Methyl Iodide	3.95	142	82755	21.08	ug/l	96
11) Tert butyl alcohol	4.80	59	74271	89.06	ug/l	100
12) 1,1-Dichloroethene	3.73	96	166041	19.77	ug/l	95
13) Acrolein	3.61	56	86130	89.64	ug/l	94
14) Allyl chloride	4.33	41	257517	19.09	ug/l	97
15) Acrylonitrile	4.99	53	316227	90.53	ug/l	99
16) Acetone	3.82	43	279825	90.16	ug/l	98
17) Carbon Disulfide	4.05	76	472296	17.29	ug/l	100
18) Methyl Acetate	4.33	43	153722	18.99	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	490693	20.58	ug/l	99
20) Methylene Chloride	4.55	84	186986	18.78	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	176835	19.45	ug/l	99
22) Diisopropyl ether	5.96	45	567122	20.58	ug/l	98
23) Vinyl Acetate	5.90	43	1917986	97.55	ug/l	99
24) 1,1-Dichloroethane	5.85	63	332543	19.67	ug/l	99
25) 2-Butanone	6.84	43	464929	90.38	ug/l	99
26) 2,2-Dichloropropane	6.83	77	226763	16.27	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	202600	20.11	ug/l	98
28) Bromochloromethane	7.20	49	152343	19.57	ug/l	97
29) Tetrahydrofuran	7.22	42	250949	91.14	ug/l	99
30) Chloroform	7.37	83	332086	19.65	ug/l	98
31) Cyclohexane	7.65	56	291264	19.18	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	286975	19.77	ug/l	98
36) 1,1-Dichloropropene	7.80	75	252428	19.49	ug/l	99
37) Ethyl Acetate	6.94	43	175054	18.77	ug/l	99
38) Carbon Tetrachloride	7.78	117	245351	18.16	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080718\
 Data File : VN050436.D
 Acq On : 7 Aug 2018 17:05
 Operator : MD\SY
 Sample : VN0807MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0807MBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/8/2018 10:47:53 AM

Quant Time: Aug 08 07:02:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	257614	18.22	µg/l	96
40) Benzene	8.04	78	771217	19.37	µg/l	98
41) Methacrylonitrile	7.18	41	83864	16.91	µg/l #	87
42) 1,2-Dichloroethane	8.13	62	234238	18.53	µg/l	98
43) Isopropyl Acetate	8.17	43	306262	19.02	µg/l #	86
44) Trichloroethene	8.84	130	208150	19.46	µg/l	99
45) 1,2-Dichloropropane	9.12	63	201450	19.24	µg/l	98
46) Dibromomethane	9.21	93	118881	18.39	µg/l	97
47) Bromodichloromethane	9.41	83	243359	18.18	µg/l	98
48) Methyl methacrylate	9.20	41	147848	18.32	µg/l	96
49) 1,4-Dioxane	9.20	88	41606	334.50	µg/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1066349	91.97	µg/l	99
52) Toluene	10.16	92	471297	19.71	µg/l	99
53) t-1,3-Dichloropropene	10.38	75	253080	18.83	µg/l	97
54) cis-1,3-Dichloropropene	9.84	75	287921	19.19	µg/l	97
55) 1,1,2-Trichloroethane	10.56	97	175792	18.83	µg/l	98
56) Ethyl methacrylate	10.43	69	237829	19.09	µg/l	97
57) 1,3-Dichloropropane	10.71	76	294363	19.21	µg/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	540789	92.60	µg/l	99
59) 2-Hexanone	10.75	43	718414	88.78	µg/l	98
60) Dibromochloromethane	10.90	129	186719	18.15	µg/l	98
61) 1,2-Dibromoethane	11.01	107	171844	18.67	µg/l	100
64) Tetrachloroethene	10.63	164	197418	19.97	µg/l	99
65) Chlorobenzene	11.44	112	507412	19.13	µg/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	185474	19.21	µg/l	98
67) Ethyl Benzene	11.51	91	900467	21.00	µg/l	100
68) m/p-Xylenes	11.62	106	688389	42.17	µg/l	97
69) o-Xylene	11.95	106	335252	21.32	µg/l	98
70) Styrene	11.97	104	544595	21.30	µg/l	98
71) Bromoform	12.13	173	135160	19.15	µg/l #	97
73) Isopropylbenzene	12.25	105	904170	20.96	µg/l	98
74) N-amyl acetate	12.07	43	277481	19.84	µg/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	214066	17.20	µg/l	96
76) 1,2,3-Trichloropropane	12.55	75	206160m	19.82	µg/l	
77) Bromobenzene	12.53	156	1824943	157.88	µg/l #	1
78) n-propylbenzene	12.59	91	960681	19.67	µg/l	99
79) 2-Chlorotoluene	12.68	91	582098	19.30	µg/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	830286	23.71	µg/l	88
81) trans-1,4-Dichloro-2-buten	12.30	75	52652	17.78	µg/l	99
82) 4-Chlorotoluene	12.77	91	593466	19.73	µg/l	97
83) tert-Butylbenzene	12.99	119	577692	18.91	µg/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	706272	19.91	µg/l	99
85) sec-Butylbenzene	13.17	105	755539	18.55	µg/l	99
86) p-Isopropyltoluene	13.29	119	663134	19.00	µg/l	99
87) 1,3-Dichlorobenzene	13.28	146	373804	18.16	µg/l	99
88) 1,4-Dichlorobenzene	13.36	146	371139	18.05	µg/l	99
89) n-Butylbenzene	13.62	91	548726	18.47	µg/l	97
90) Hexachloroethane	13.88	117	97121	15.65	µg/l	100
91) 1,2-Dichlorobenzene	13.66	146	374942	18.17	µg/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	36530	17.28	µg/l	88

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080718\
Data File : VN050436.D
Acq On : 7 Aug 2018 17:05
Operator : MD\SY
Sample : VN0807MBSD01
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

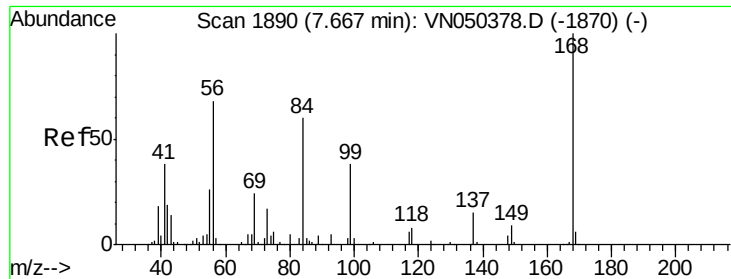
Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM

Quant Time: Aug 08 07:02:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	216639	20.61	ug/l	97
94) Hexachlorobutadiene	15.01	225	104020	17.03	ug/l	100
95) Naphthalene	15.14	128	644397	25.10	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	211528	19.90	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0807MBSD01

Tot Ion:168 Resp: 776947

Ion Ratio Lower Upper

168 100

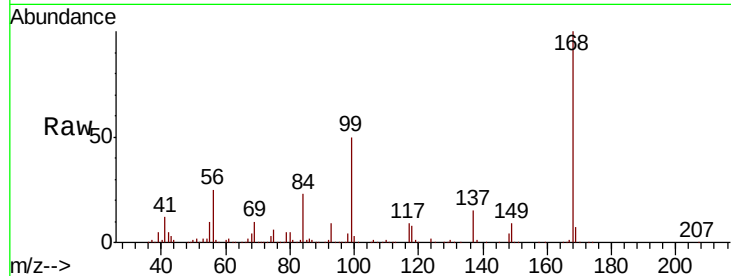
99 50.2 40.0 60.0

Manual Integrations

APPROVED

MMDadoda

8/8/2018 10:47:53 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

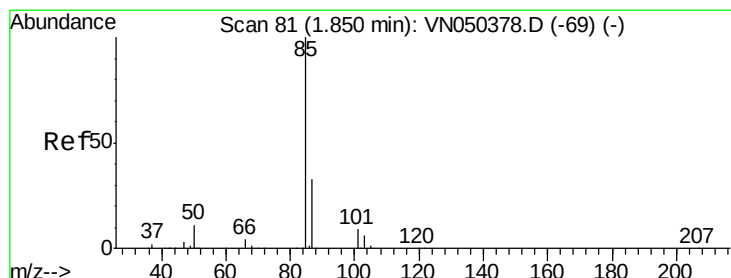
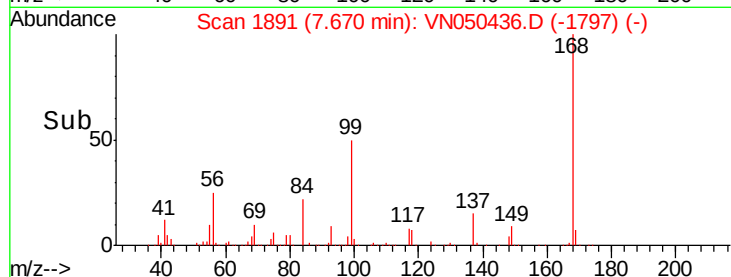
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 18.06 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN050436.D

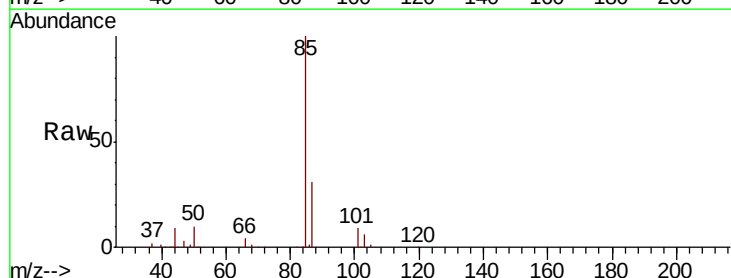
Acq: 7 Aug 2018 17:05

Tgt Ion: 85 Resp: 155719

Ion Ratio Lower Upper

85 100

87 31.4 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

120000

100000

80000

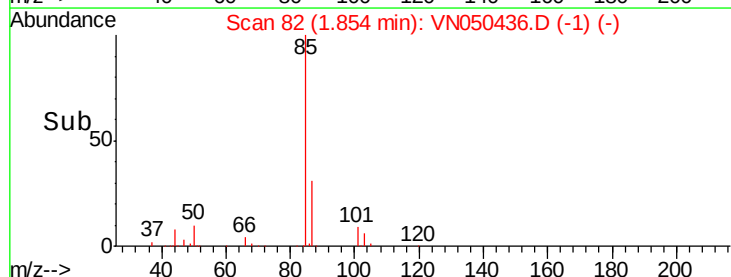
60000

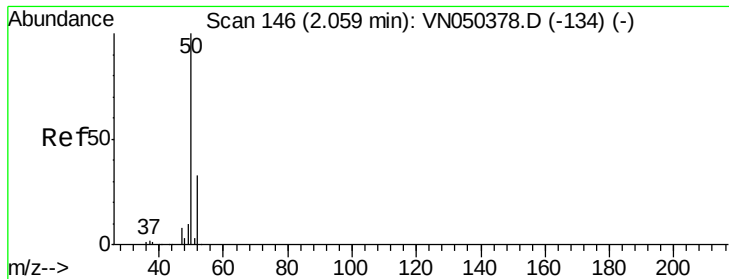
40000

20000

0

Time--> 1.80 1.85 1.90 1.95





#3

Chloromethane

Concen: 18.44 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0807MBSD01

Tot Ion: 50 Resp: 197358

Ion Ratio Lower Upper

50 100

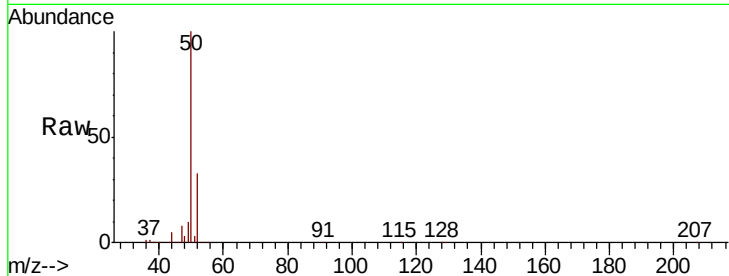
52 32.9 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

8/8/2018 10:47:53 AM



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC

2.06

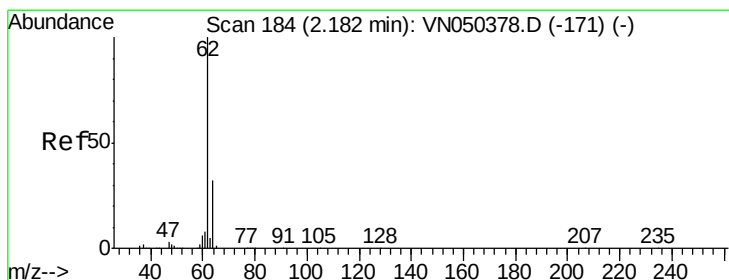
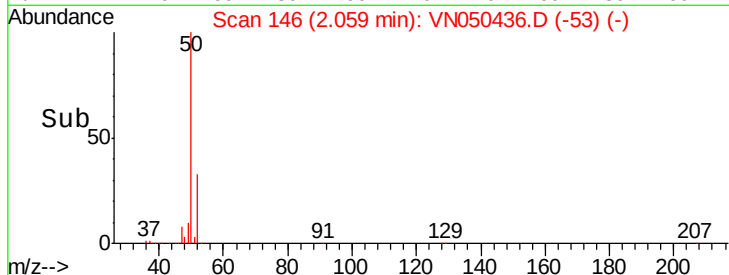
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 18.74 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050436.D

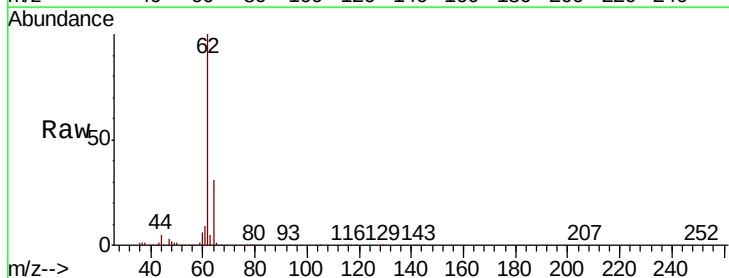
Acq: 7 Aug 2018 17:05

Tgt Ion: 62 Resp: 209175

Ion Ratio Lower Upper

62 100

64 31.4 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

2.18

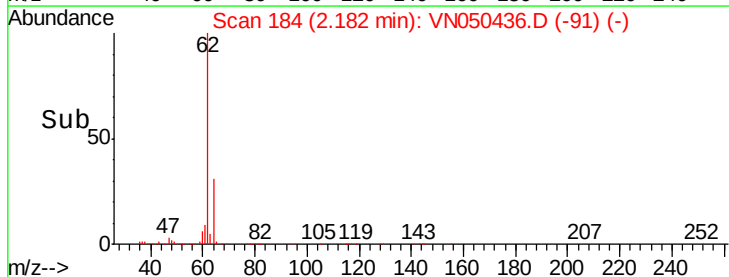
150000

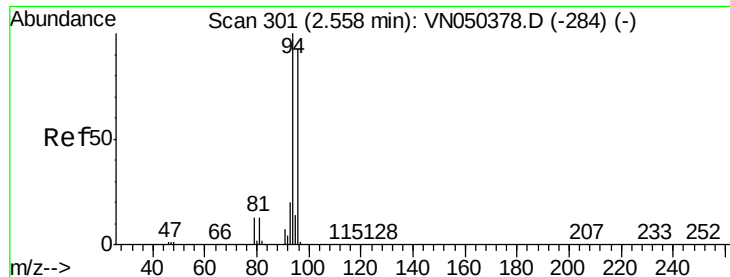
100000

50000

0

Time-->





#5

Bromomethane

Concen: 23.17 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0807MBSD01

Tot Ion: 94 Resp: 124911

Ion Ratio Lower Upper

94 100

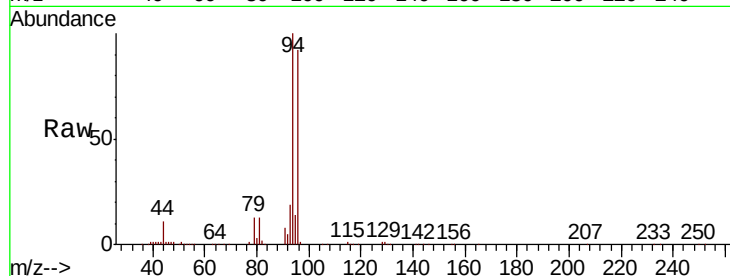
96 92.3 74.6 112.0

Manual Integrations

APPROVED

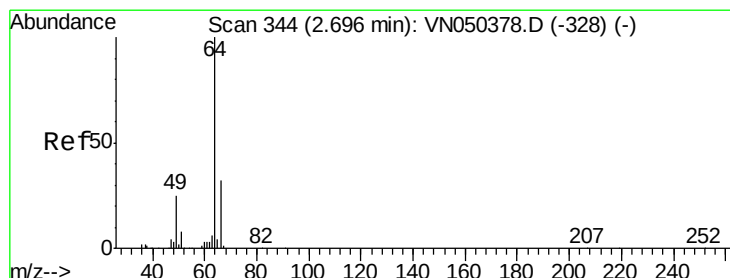
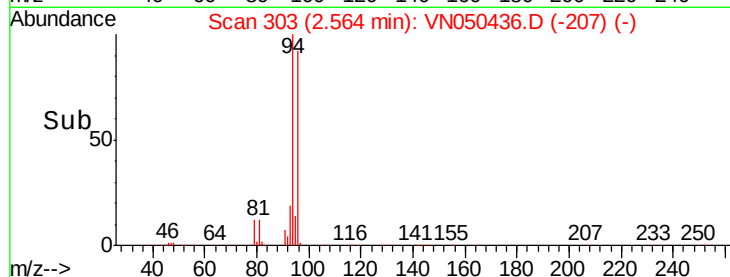
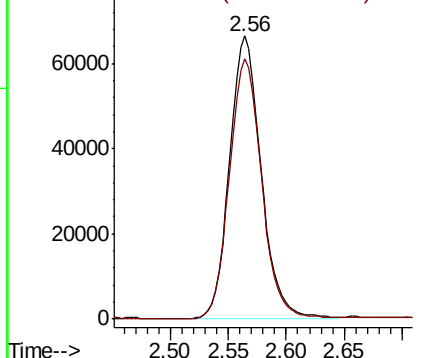
MMDadoda

8/8/2018 10:47:53 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.59 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050436.D

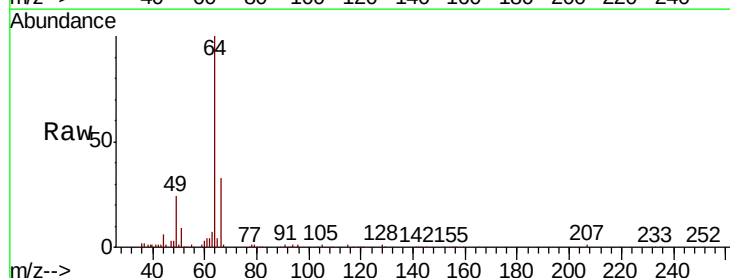
Acq: 7 Aug 2018 17:05

Tgt Ion: 64 Resp: 127841

Ion Ratio Lower Upper

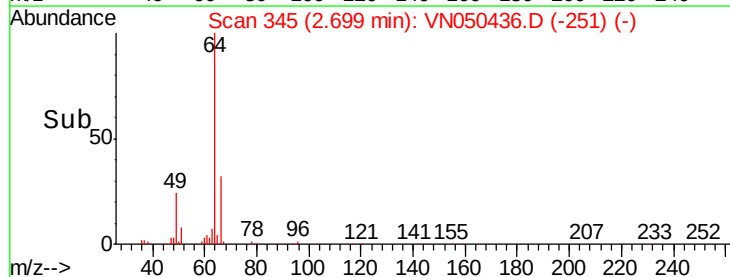
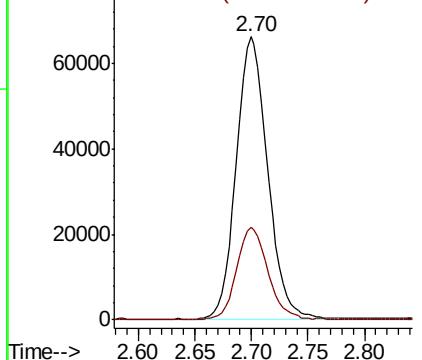
64 100

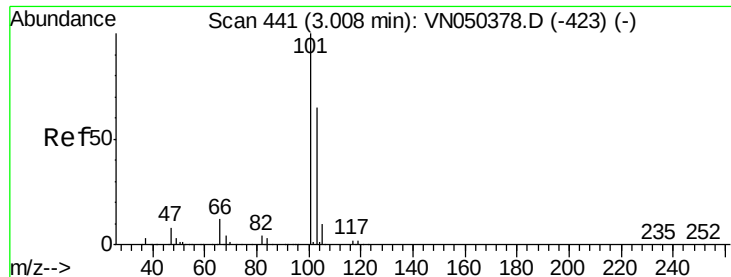
66 32.7 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

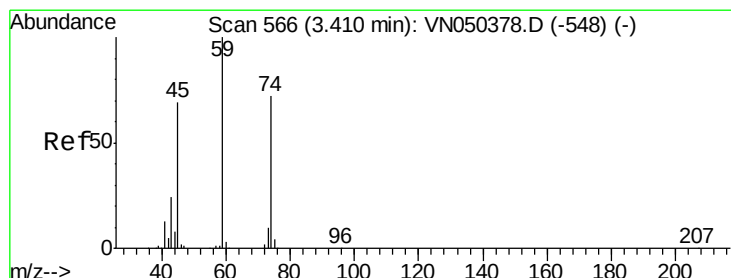
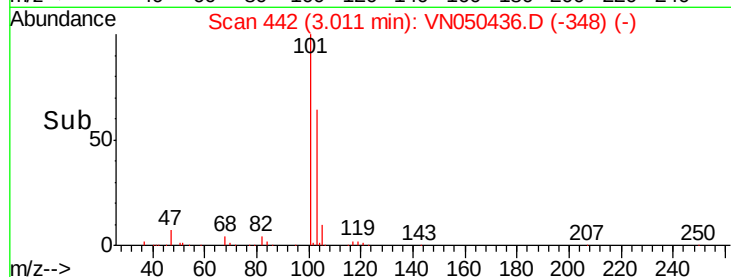
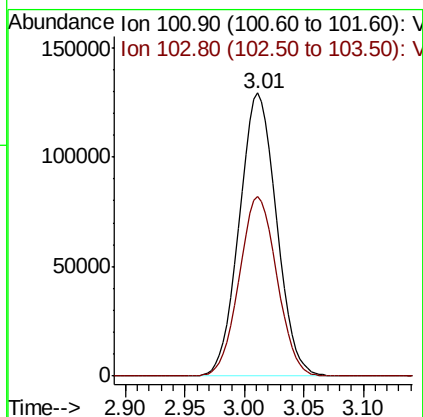
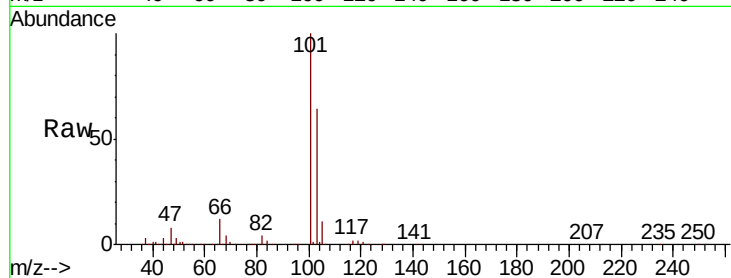
Trichlorofluoromethane
 Concen: 19.41 ug/l
 RT: 3.01 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.7	77.5

Manual Integrations
 APPROVED

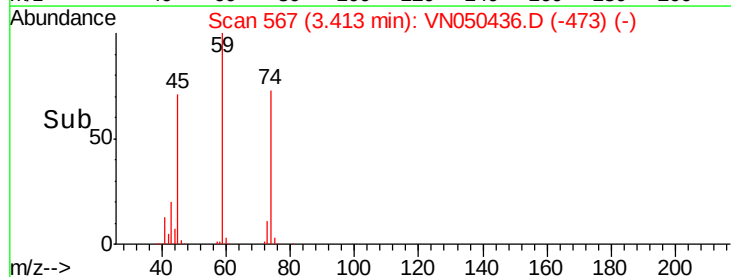
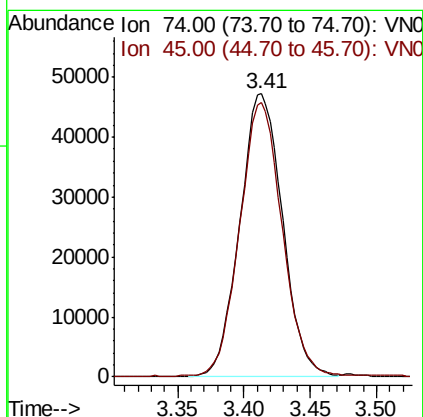
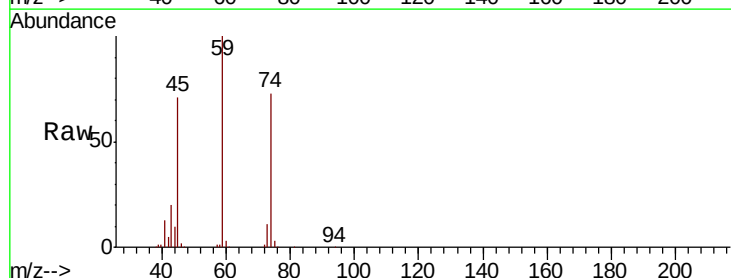
MMDadoda
 8/8/2018 10:47:53 AM

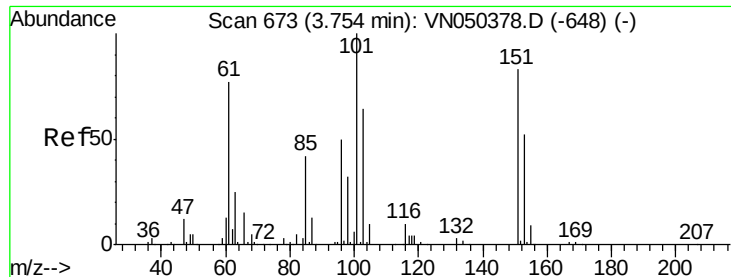


#8

Diethyl Ether
 Concen: 20.02 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.7	47.6	142.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.57 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

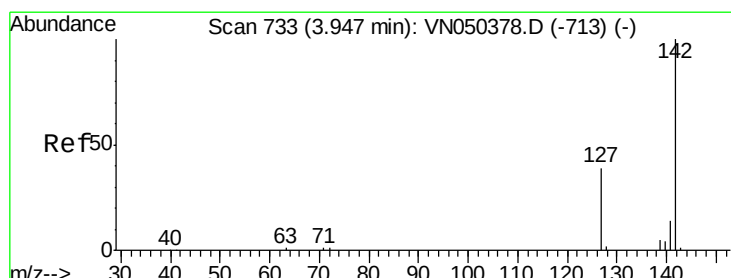
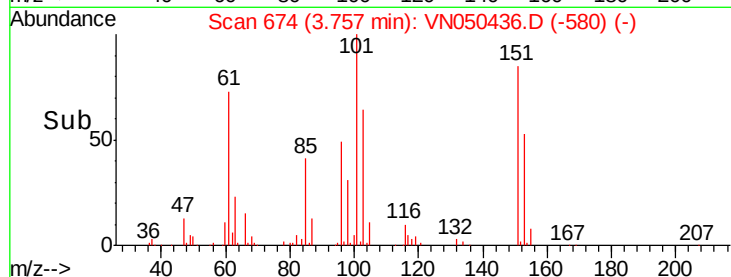
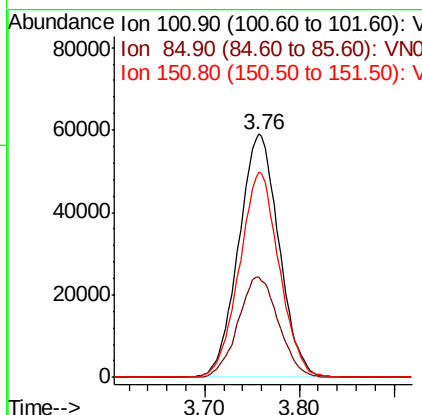
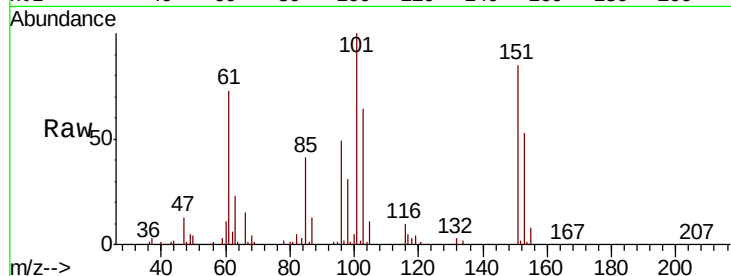
ClientSampleId :

VN0807MBSD01

Tot Ion:	101	Resp:	174339
Ion Ratio	Lower	Upper	
101	100		
85	41.4	34.2	51.2
151	83.5	66.3	99.5

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#10

Methyl Iodide

Concen: 21.08 ug/l

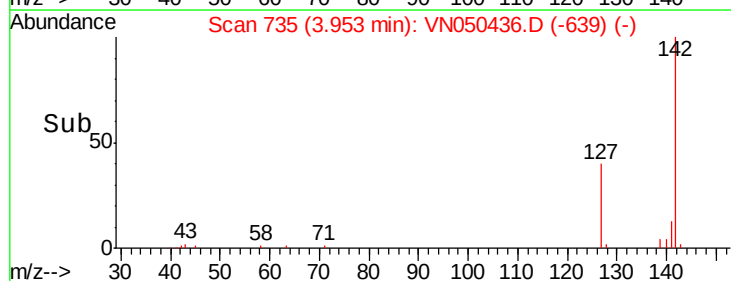
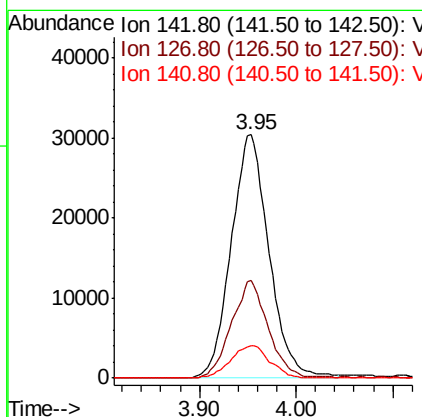
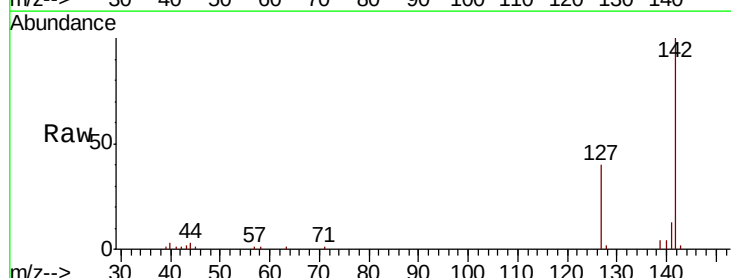
RT: 3.95 min Scan# 735

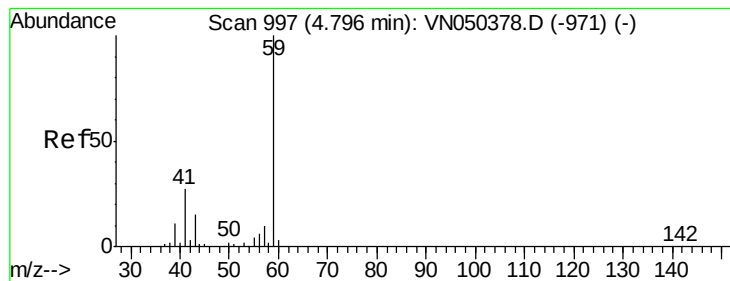
Delta R.T. 0.01 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion:	142	Resp:	82755
Ion Ratio	Lower	Upper	
142	100		
127	38.9	33.4	50.2
141	13.8	11.6	17.4





#11

Tert butyl alcohol

Concen: 89.06 ug/l

RT: 4.80 min Scan# 998

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0807MBSD01

Tot Ion: 59 Resp: 74271

Ion Ratio Lower Upper

59 100

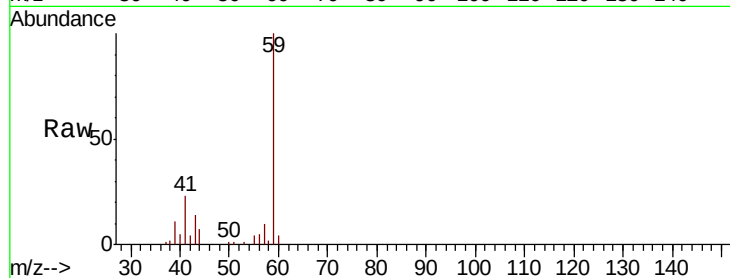
57 10.5 8.5 12.7

Manual Integrations

APPROVED

MMDadoda

8/8/2018 10:47:53 AM



Abundance Ion 59.00 (58.70 to 59.70): VN050378.D (-971) (-)

Ion 57.00 (56.70 to 57.70): VN050378.D (-971) (-)

25000

20000

15000

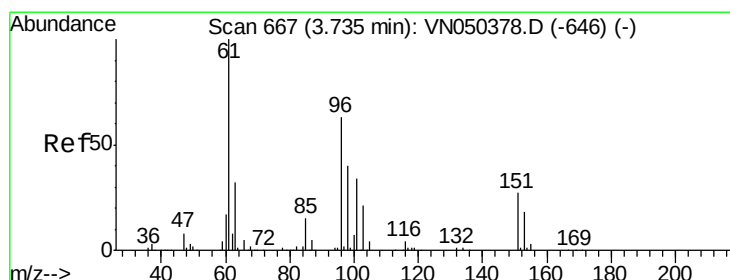
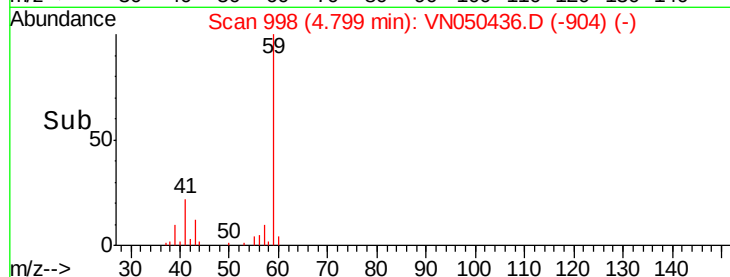
10000

5000

0

4.70 4.80 4.90

Time-->



#12

1,1-Dichloroethene

Concen: 19.77 ug/l

RT: 3.73 min Scan# 667

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

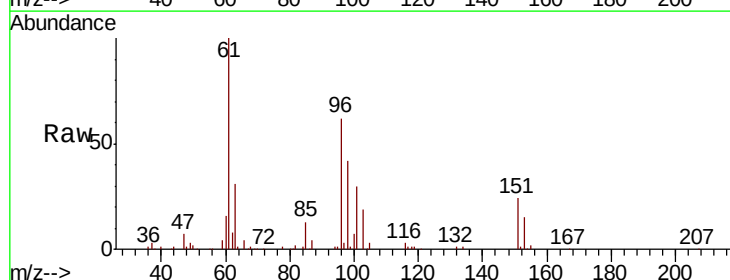
Tgt Ion: 96 Resp: 166041

Ion Ratio Lower Upper

96 100

61 160.2 124.4 186.6

98 66.5 48.3 72.5



Abundance Ion 95.90 (95.60 to 96.60): VN050378.D (-646) (-)

Ion 60.90 (60.60 to 61.60): VN050378.D (-646) (-)

Ion 97.90 (97.60 to 98.60): VN050378.D (-646) (-)

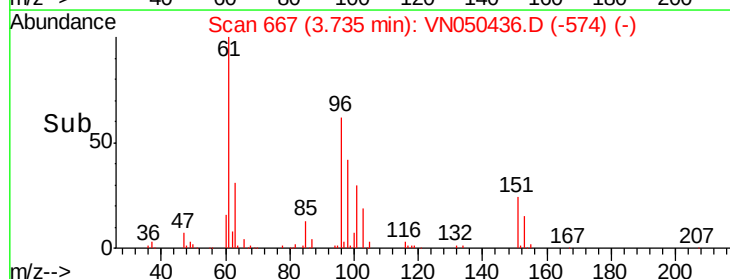
100000

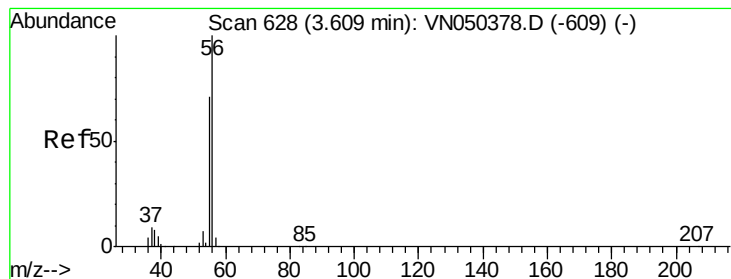
50000

0

3.60 3.70 3.80

Time-->





#13

Acrolein

Concen: 89.64 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0807MBSD01

Tot Ion: 56 Resp: 86130

Ion Ratio Lower Upper

56 100

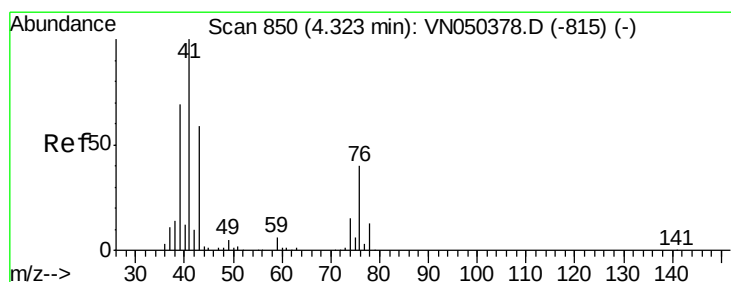
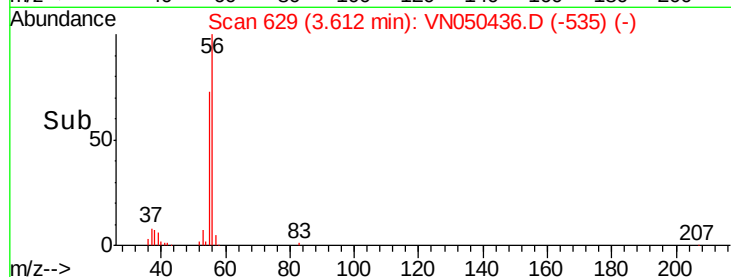
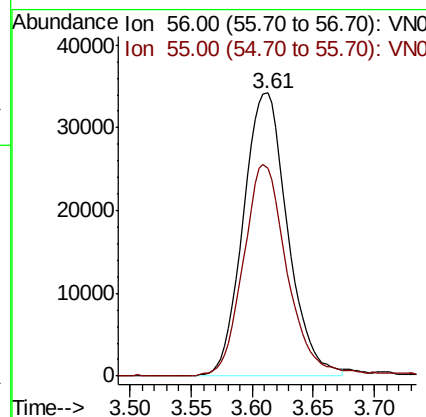
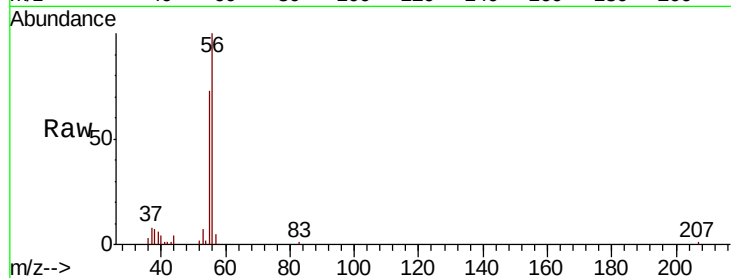
55 74.4 55.8 83.6

Manual Integrations

APPROVED

MMDadoda

8/8/2018 10:47:53 AM



#14

Allyl chloride

Concen: 19.09 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

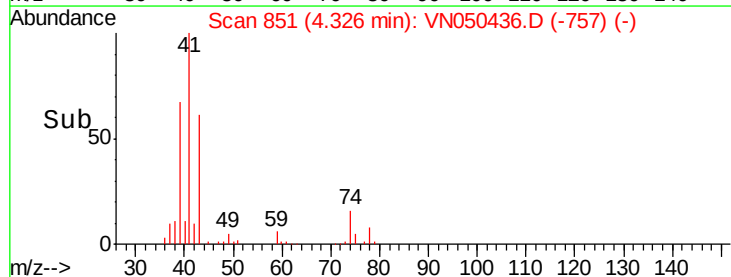
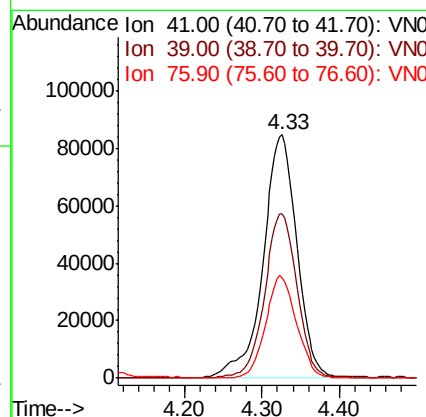
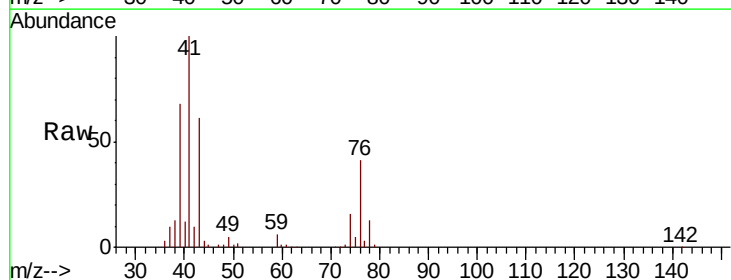
Tgt Ion: 41 Resp: 257517

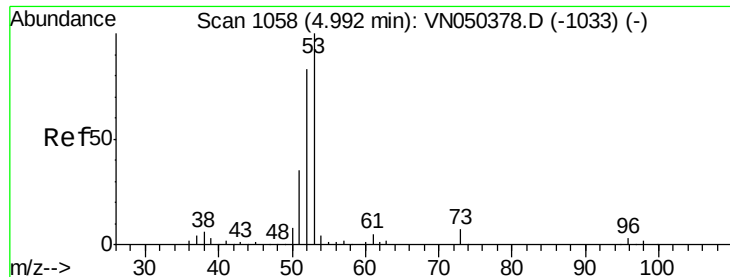
Ion Ratio Lower Upper

41 100

39 64.8 54.2 81.4

76 37.8 29.0 43.6





#15

Acrylonitrile

Concen: 90.53 ug/l

RT: 4.99 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

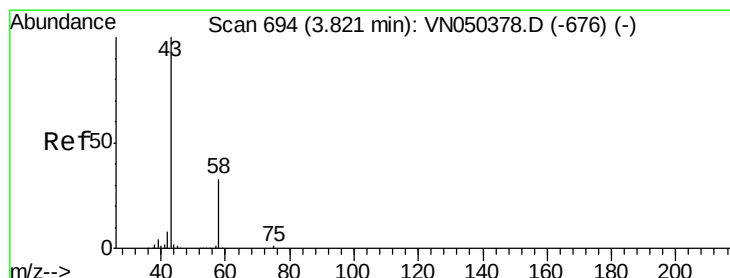
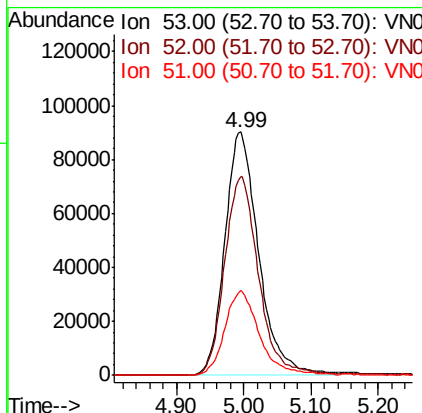
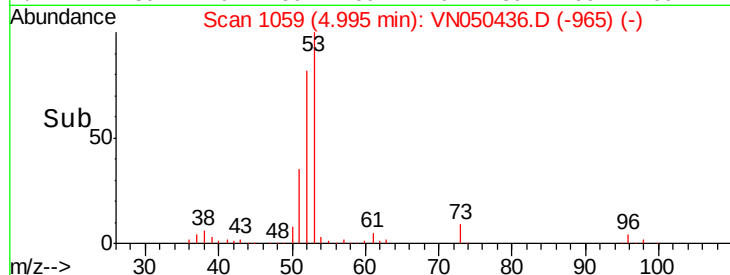
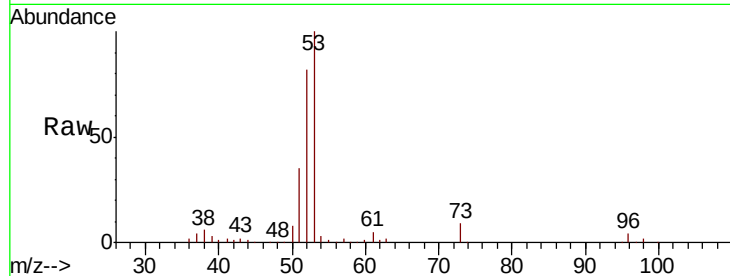
ClientSampleId :

VN0807MBSD01

Tot Ion:	53	Resp:	316227
Ion	Ratio	Lower	Upper
53	100		
52	81.7	66.2	99.2
51	35.5	29.3	43.9

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#16

Acetone

Concen: 90.16 ug/l

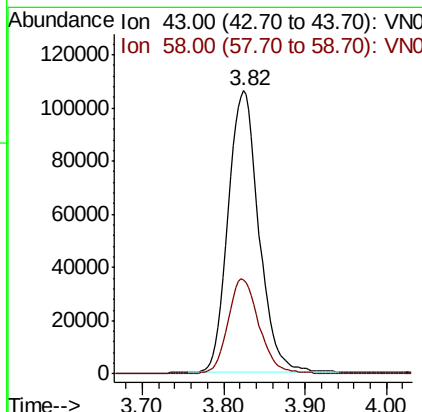
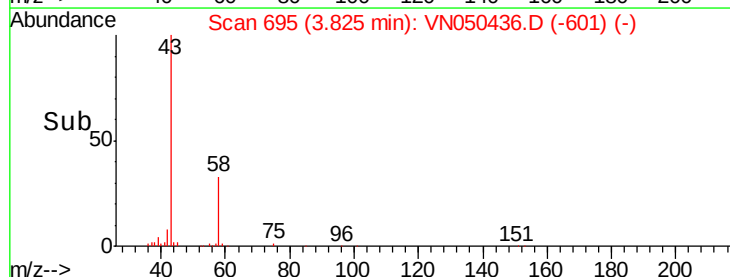
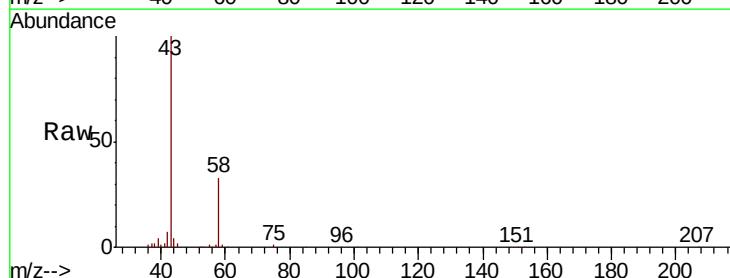
RT: 3.82 min Scan# 695

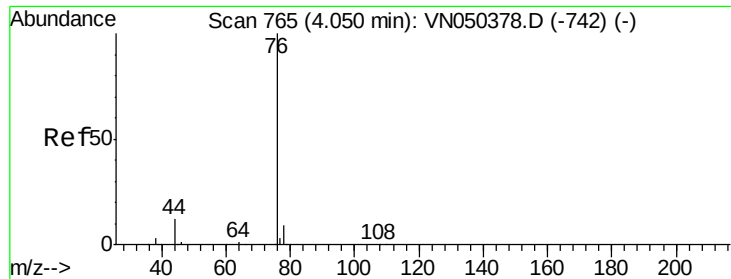
Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion:	43	Resp:	279825
Ion	Ratio	Lower	Upper
43	100		
58	33.3	25.8	38.8





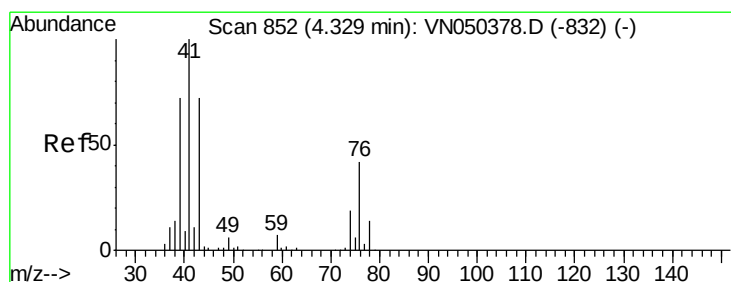
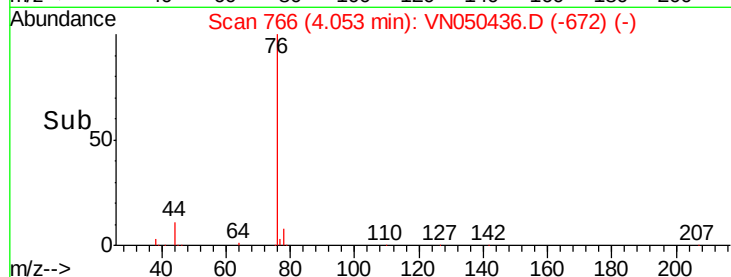
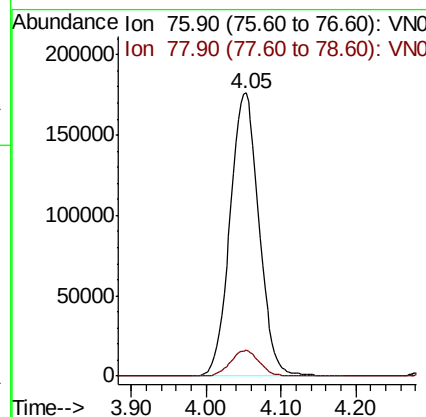
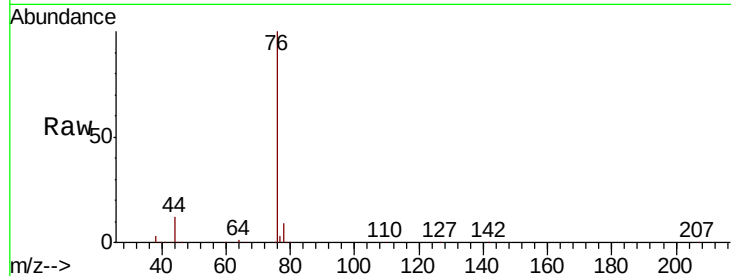
#17
Carbon Disulfide
Concen: 17.29 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

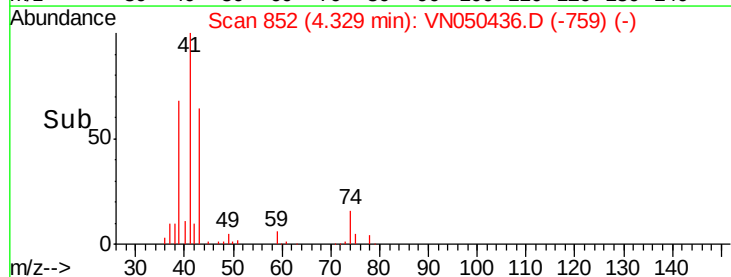
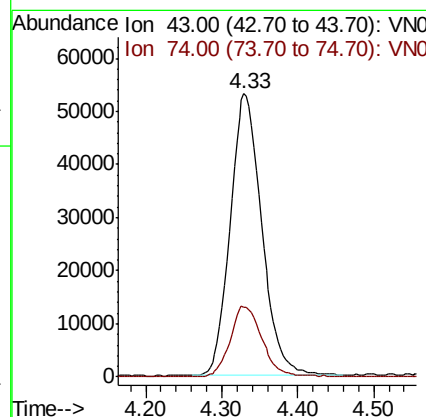
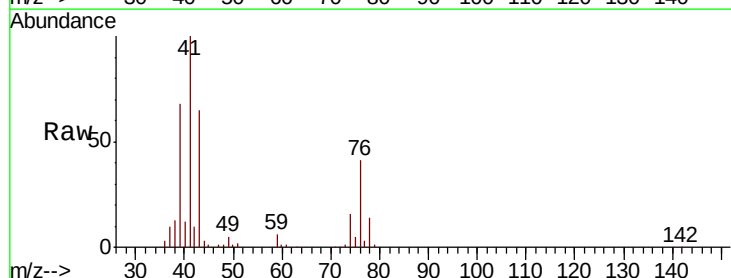
Manual Integrations
APPROVED

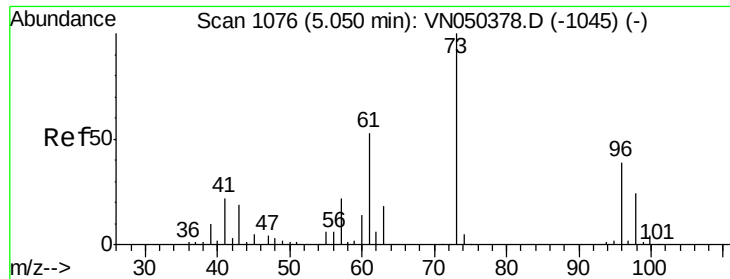
MMDadoda
8/8/2018 10:47:53 AM



#18
Methyl Acetate
Concen: 18.99 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.2	19.2	28.8





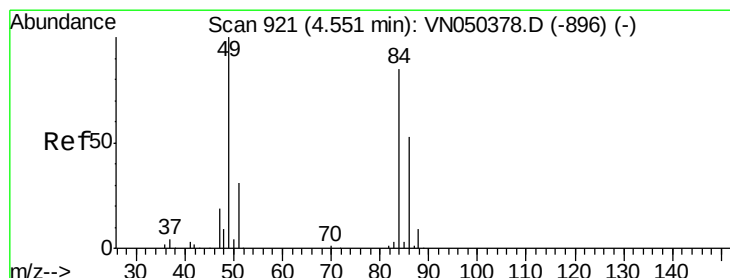
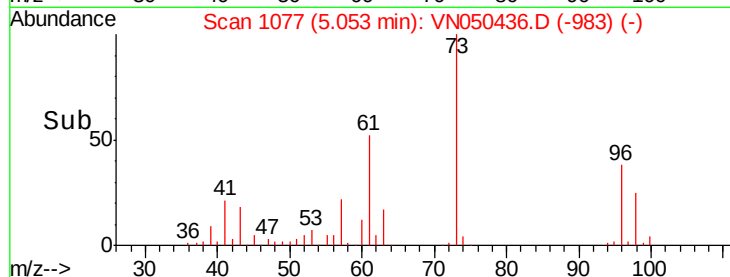
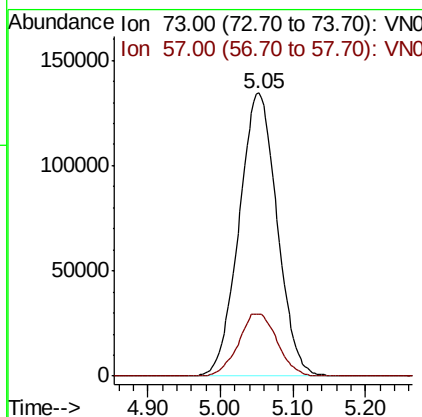
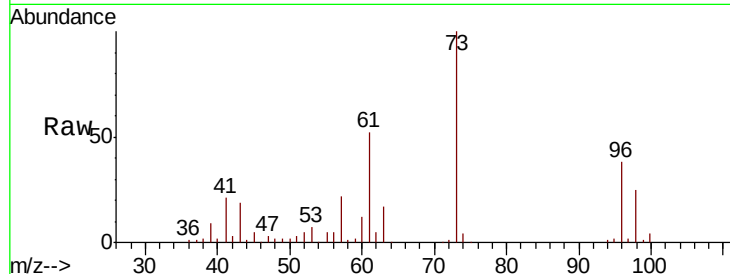
#19
Methvl tert-butvl Ether
Concen: 20.58 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion: 73 Resp: 490693
Ion Ratio Lower Upper
73 100
57 21.9 18.0 27.0

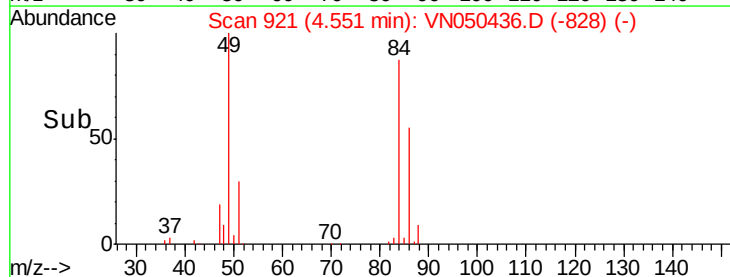
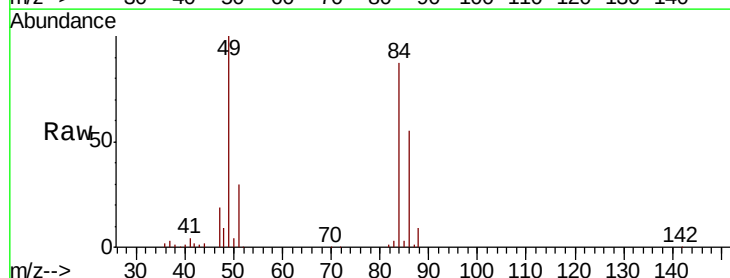
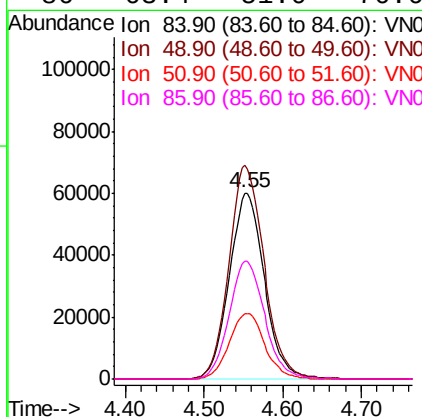
Manual Integrations
APPROVED

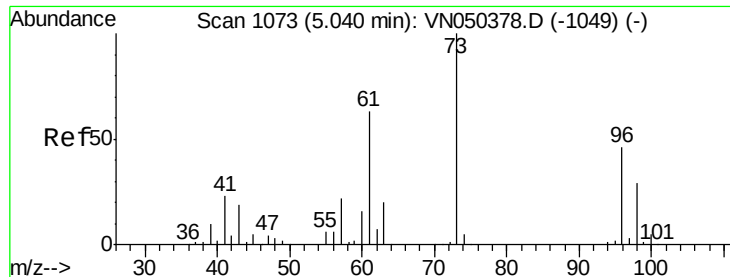
MMDadoda
8/8/2018 10:47:53 AM



#20
Methylene Chloride
Concen: 18.78 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion: 84 Resp: 186986
Ion Ratio Lower Upper
84 100
49 114.8 94.8 142.2
51 34.8 28.3 42.5
86 63.4 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 19.45 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

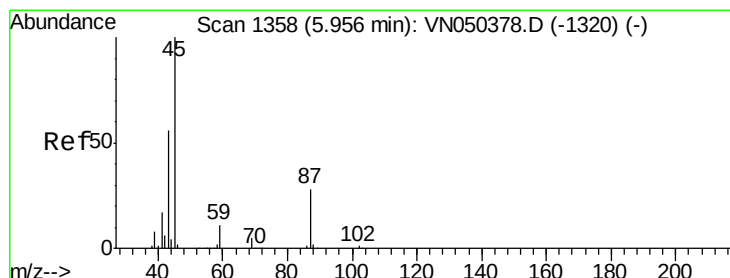
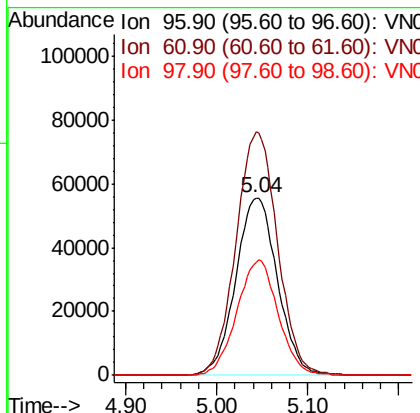
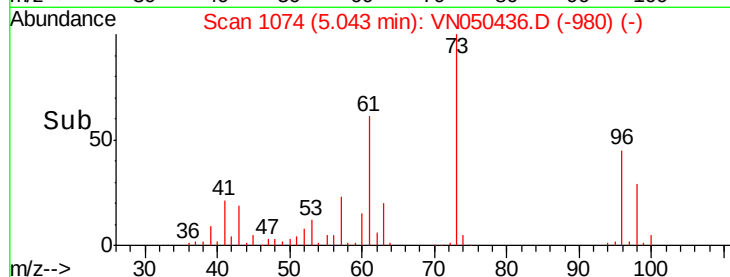
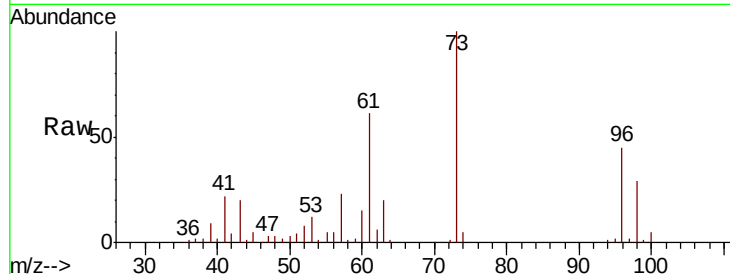
ClientSampled :

VN0807MBSD01

Tot Ion:	96	Resp:	176835
Ion	Ratio	Lower	Upper
96	100		
61	136.9	110.7	166.1
98	64.0	51.6	77.4

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#22

Diisopropyl ether

Concen: 20.58 ug/l

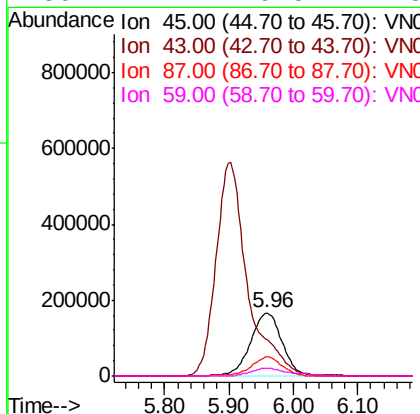
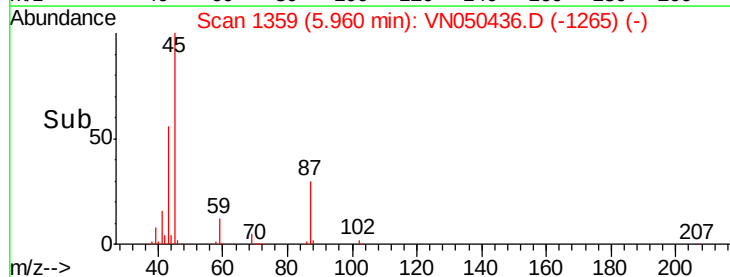
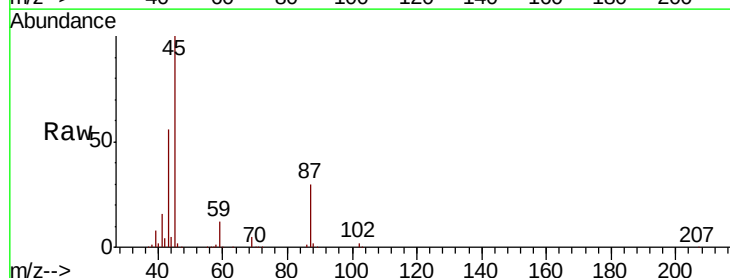
RT: 5.96 min Scan# 1359

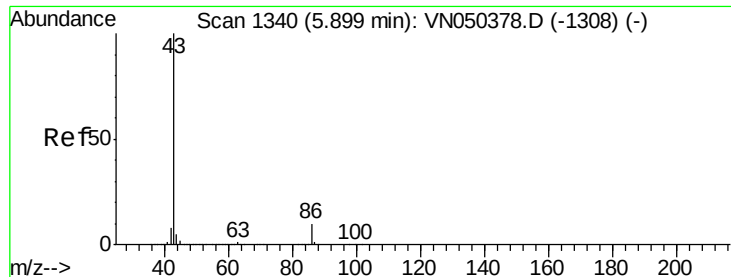
Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion:	45	Resp:	567122
Ion	Ratio	Lower	Upper
45	100		
43	55.3	45.7	68.5
87	29.9	22.7	34.1
59	12.2	9.5	14.3





#23

Vinyl Acetate

Concen: 97.55 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0807MBSD01

Tot Ion: 43 Resp: 1917986

Ion Ratio Lower Upper

43 100

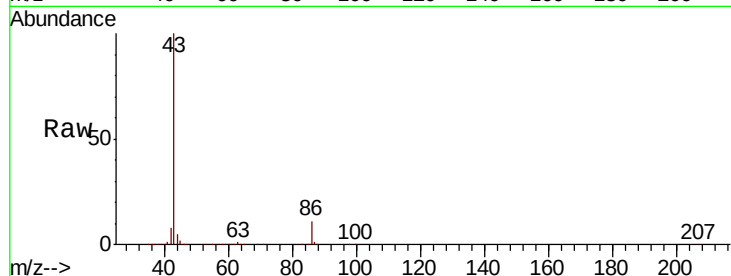
86 10.6 8.6 13.0

Manual Integrations

APPROVED

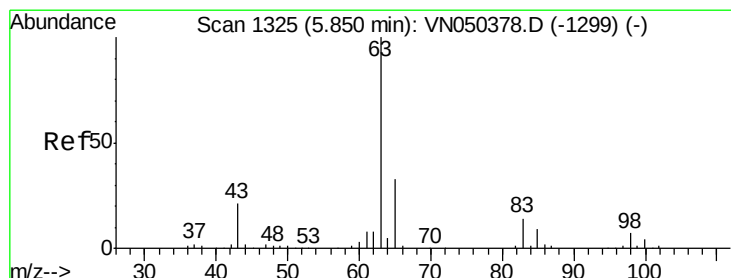
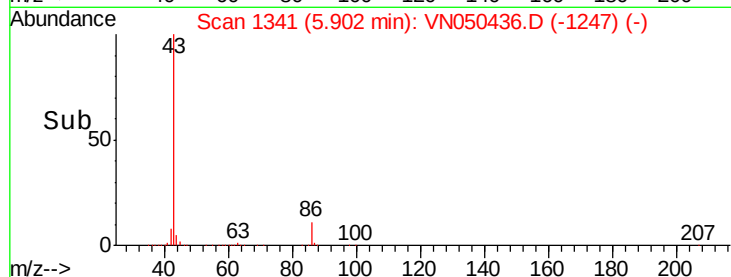
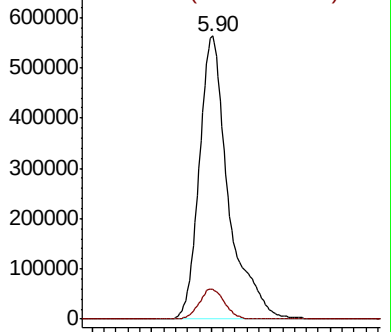
MMDadoda

8/8/2018 10:47:53 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: 19.67 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

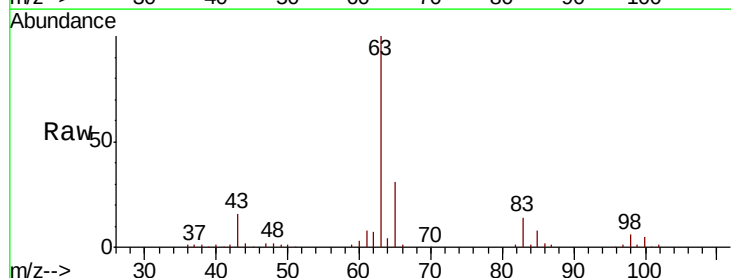
Tgt Ion: 63 Resp: 332543

Ion Ratio Lower Upper

63 100

98 6.4 3.3 9.8

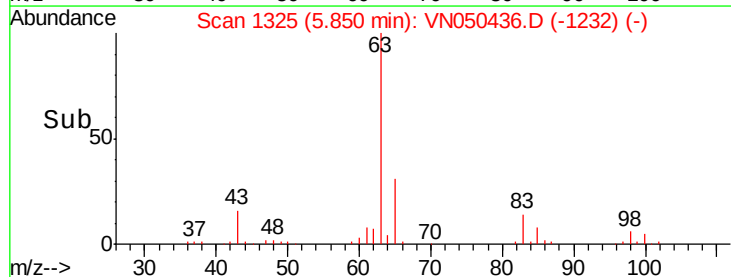
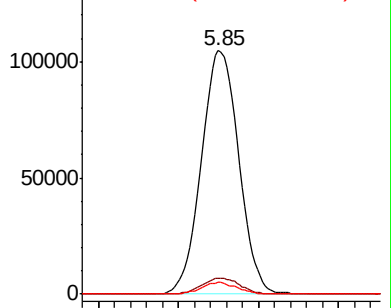
100 4.7 2.1 6.3

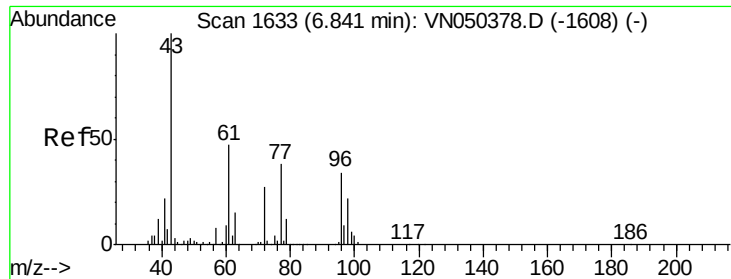


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 90.38 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0807MBSD01

Tot Ion: 43 Resp: 464929

Ion Ratio Lower Upper

43 100

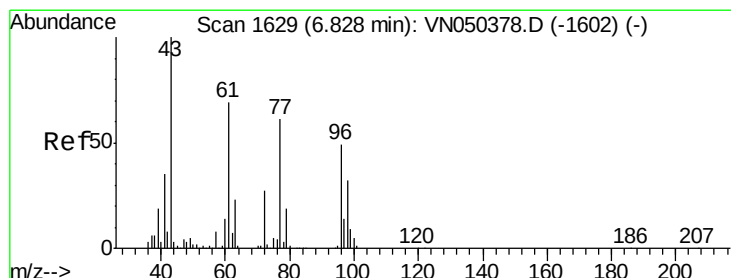
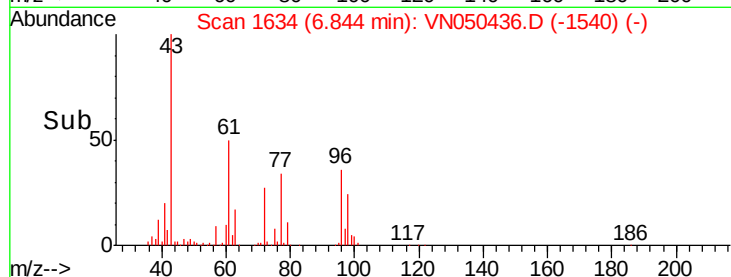
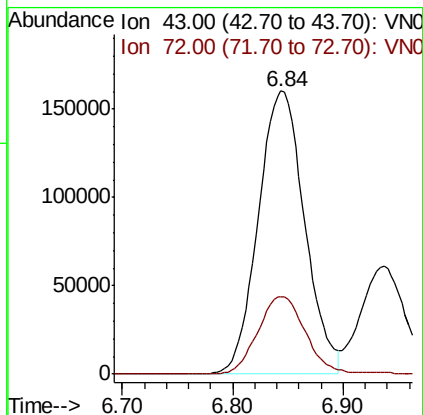
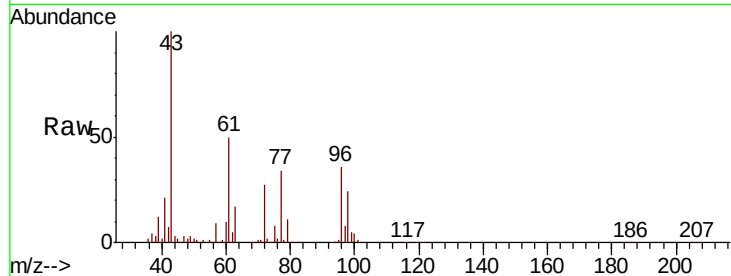
72 27.5 21.5 32.3

Manual Integrations

APPROVED

MMDadoda

8/8/2018 10:47:53 AM



#26

2,2-Dichloropropane

Concen: 16.27 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050436.D

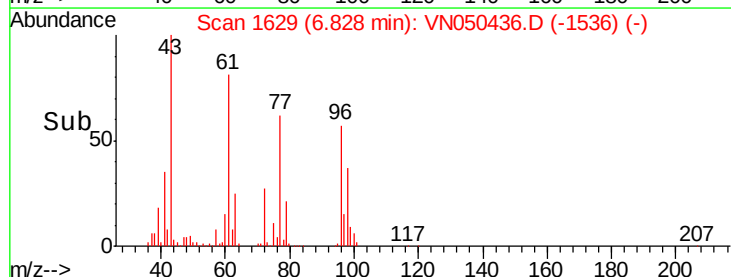
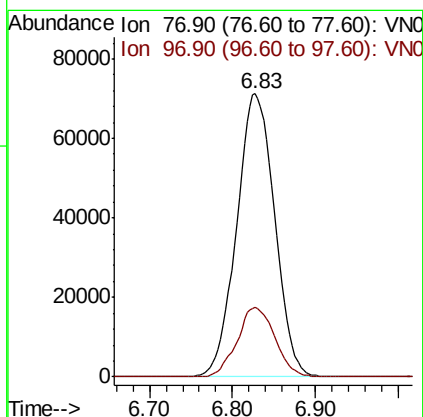
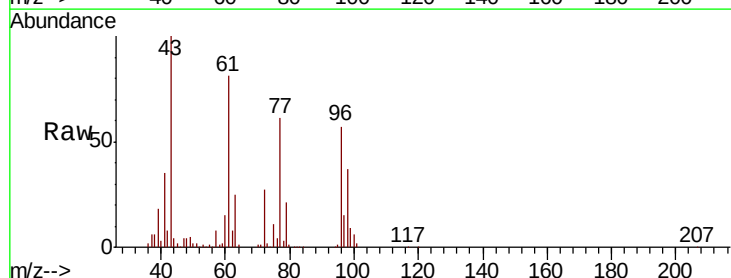
Acq: 7 Aug 2018 17:05

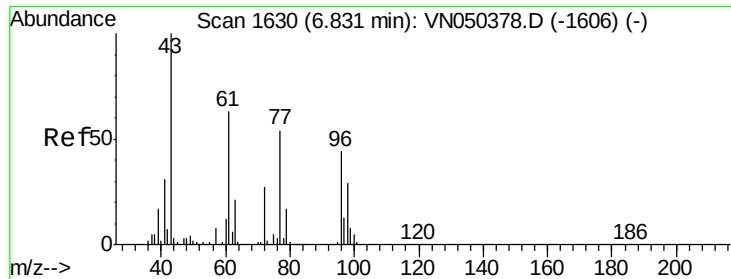
Tgt Ion: 77 Resp: 226763

Ion Ratio Lower Upper

77 100

97 24.4 11.8 35.3





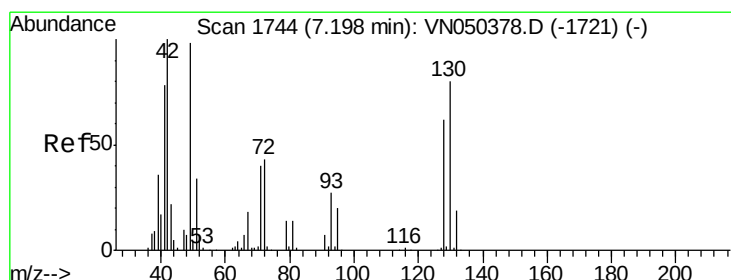
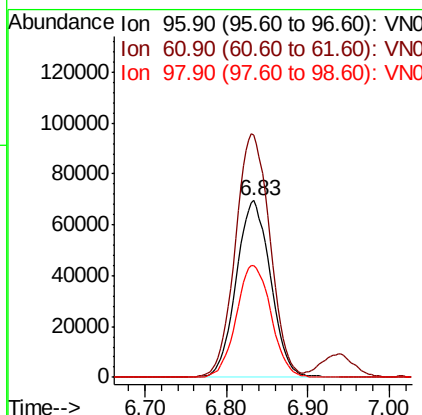
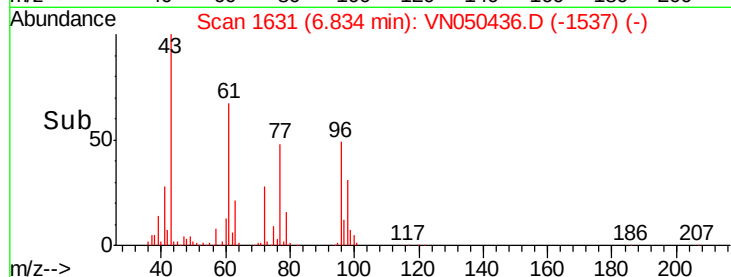
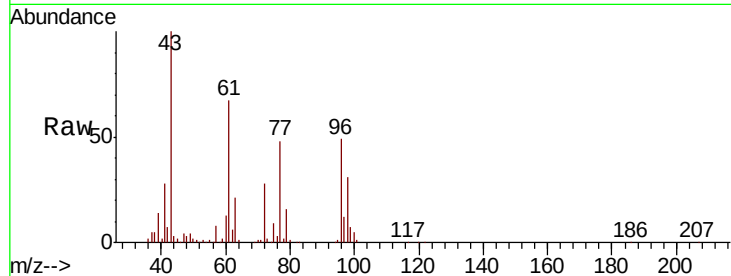
#27
 cis-1,2-Dichloroethene
 Concen: 20.11 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	202600		
61	138.8	0.0	285.0	
98	64.1	0.0	129.2	

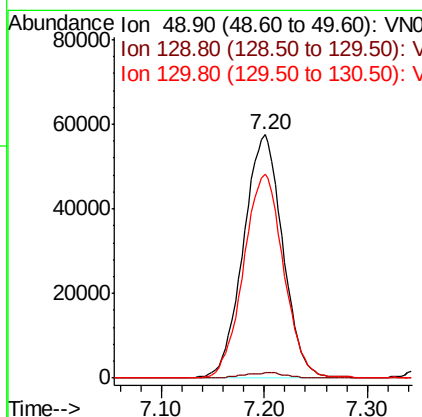
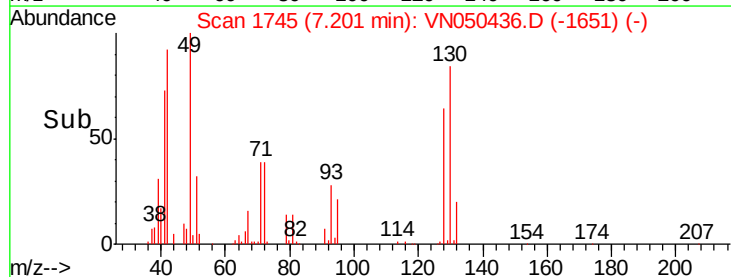
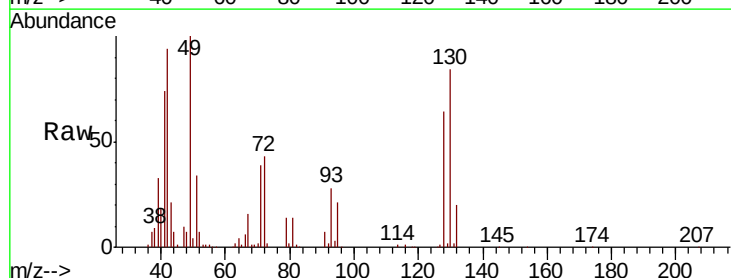
Manual Integrations
 APPROVED

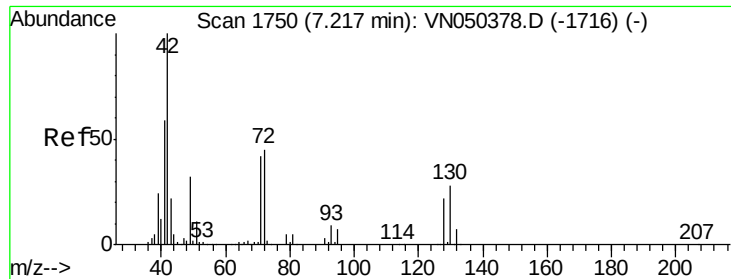
MMDadoda
 8/8/2018 10:47:53 AM



#28
 Bromochloromethane
 Concen: 19.57 ug/l
 RT: 7.20 min Scan# 1745
 Delta R.T. 0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	152343		
129	2.4	0.0	4.0	
130	85.5	66.3	99.5	





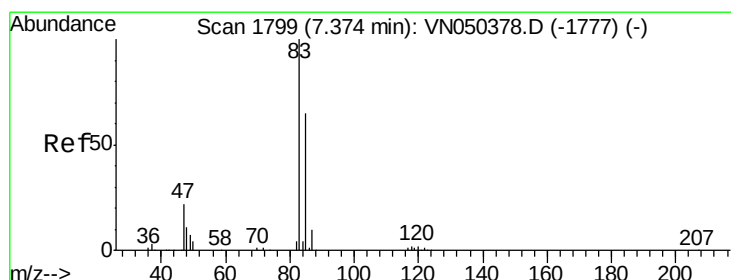
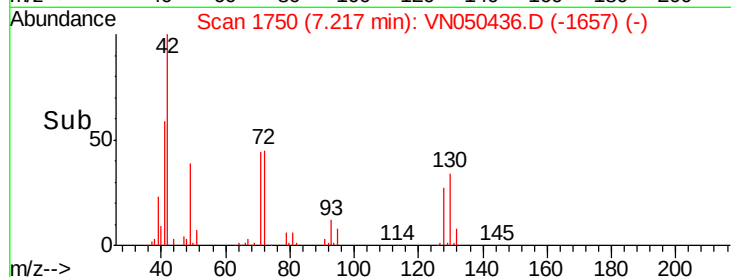
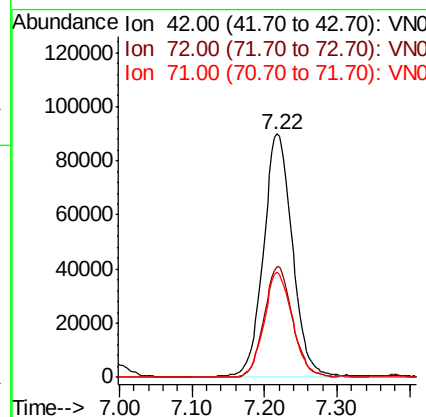
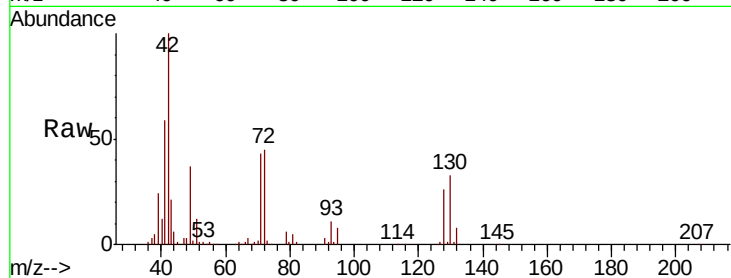
#29
Tetrahydrofuran
Concen: 91.14 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.5	35.9	53.9
71	42.3	33.7	50.5

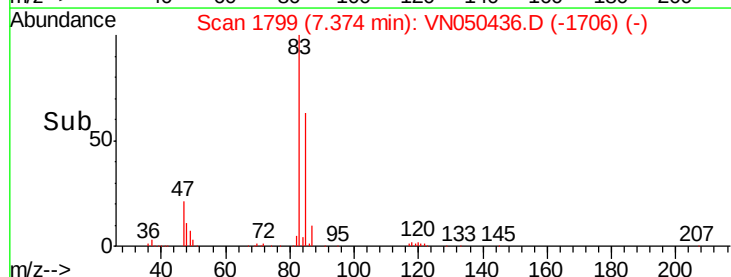
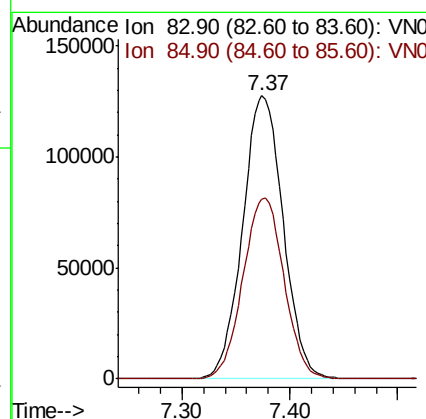
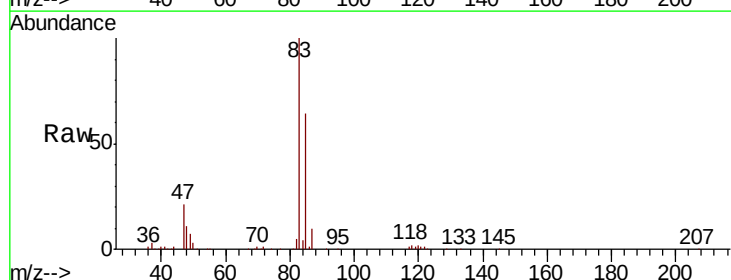
Manual Integrations
APPROVED

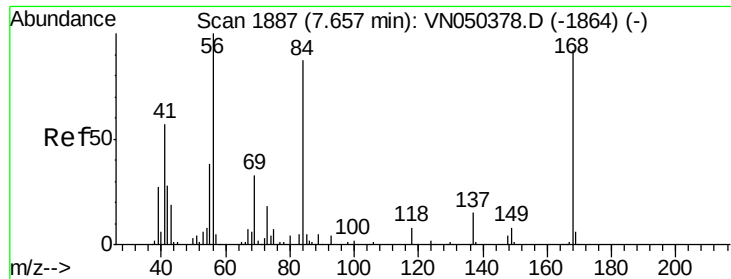
MMDadoda
8/8/2018 10:47:53 AM



#30
Chloroform
Concen: 19.65 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.5	78.7





#31

Cyclohexane

Concen: 19.18 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

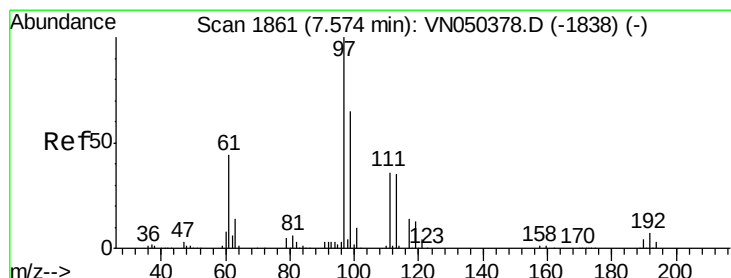
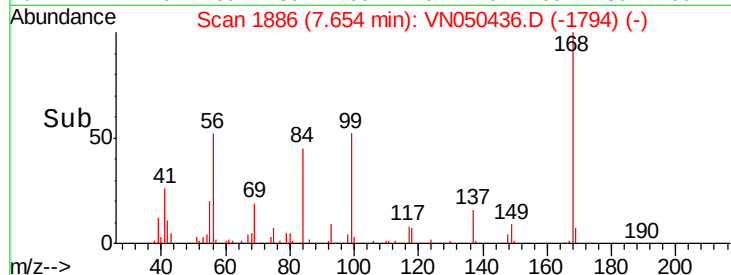
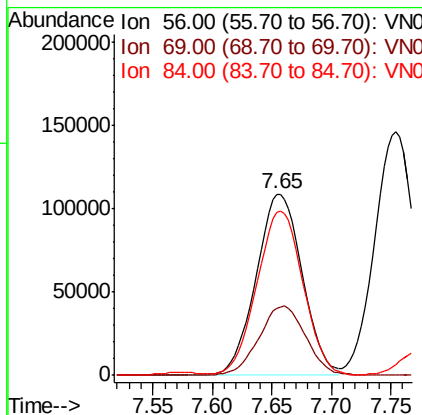
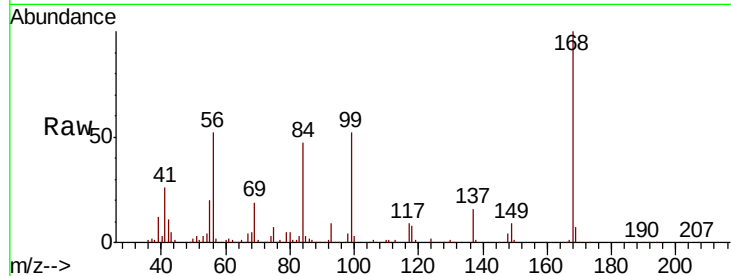
ClientSampleID :

VN0807MBSD01

Tot Ion:	56	Resp:	291264
Ion Ratio	Lower	Upper	
56	100		
69	36.9	26.2	39.4
84	88.7	67.4	101.0

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#32

1,1,1-Trichloroethane

Concen: 19.77 ug/l

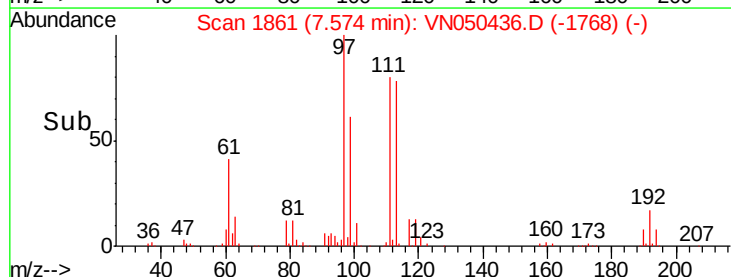
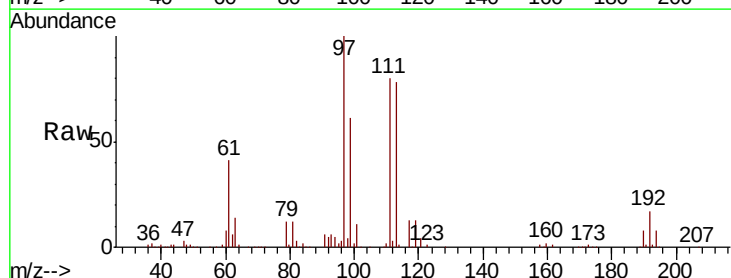
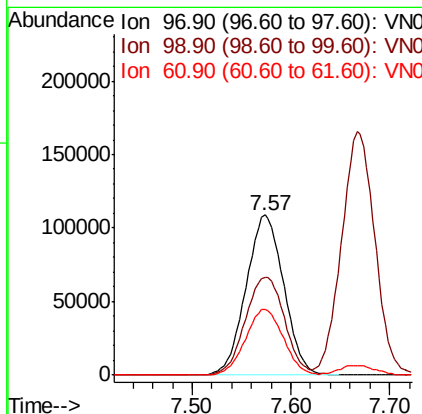
RT: 7.57 min Scan# 1861

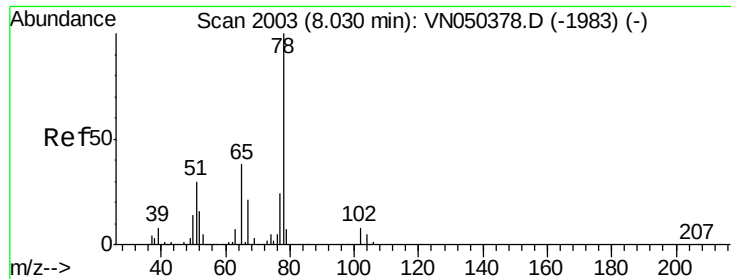
Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion:	97	Resp:	286975
Ion Ratio	Lower	Upper	
97	100		
99	63.8	51.4	77.0
61	41.4	35.4	53.0





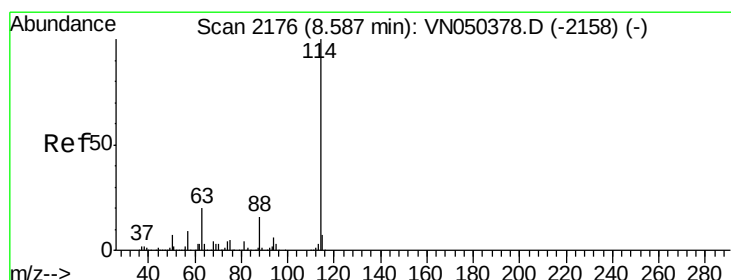
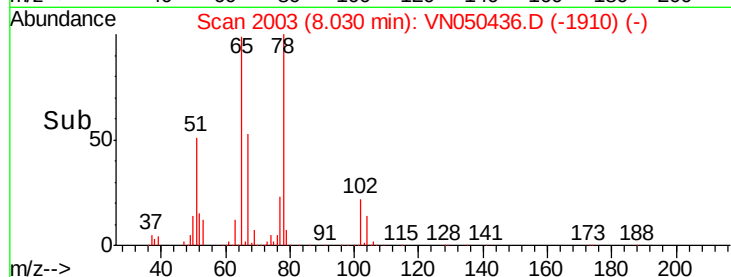
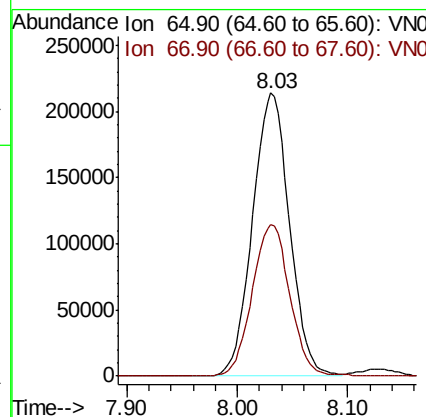
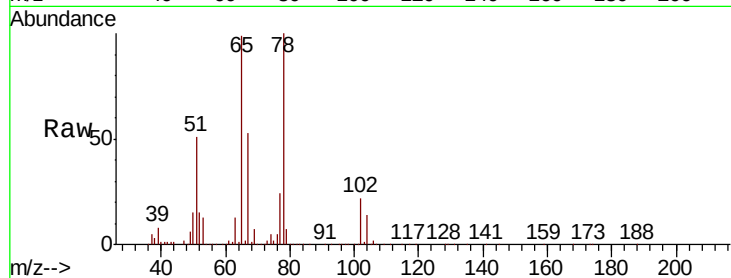
#33
 1,2-Dichloroethane-d4
 Concen: 47.80 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	496248		
67	54.1	0.0	108.4	

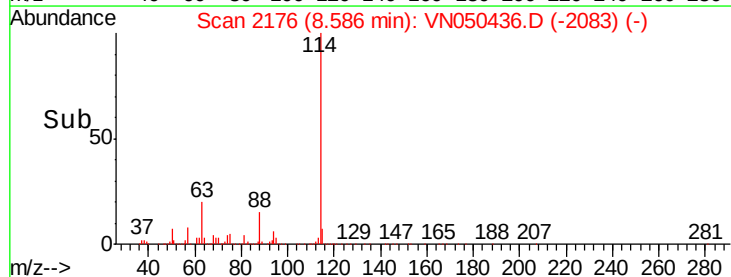
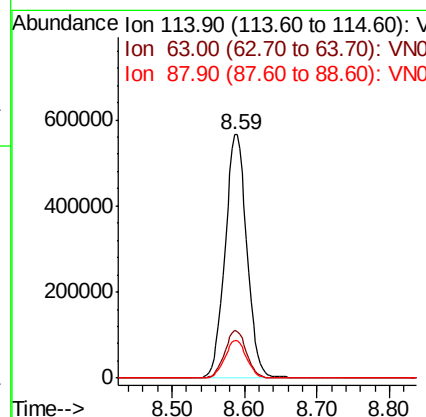
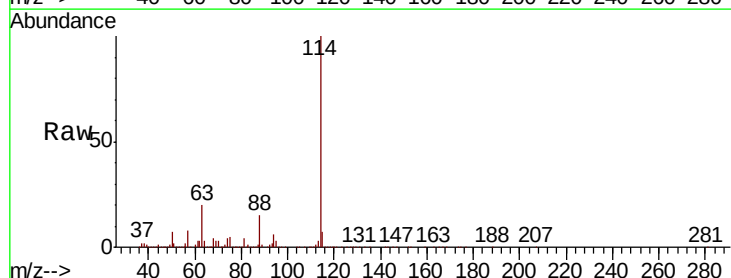
Manual Integrations
 APPROVED

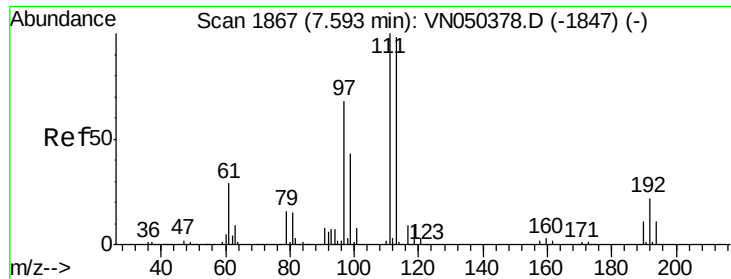
MMDadoda
 8/8/2018 10:47:53 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1178682		
63	19.6	0.0	40.0	
88	15.4	0.0	31.2	





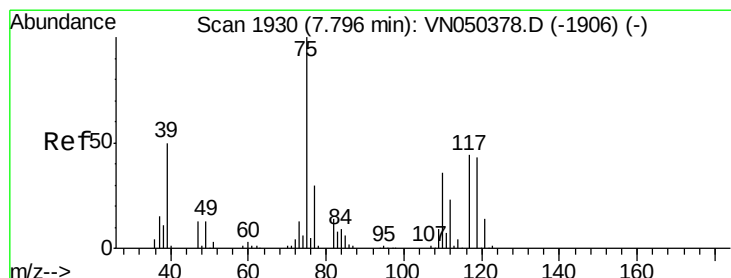
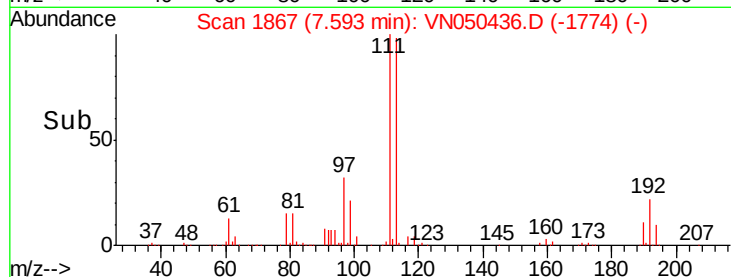
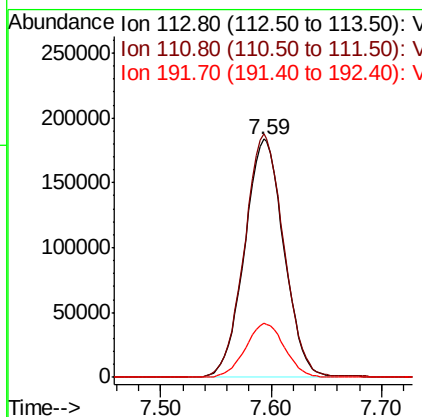
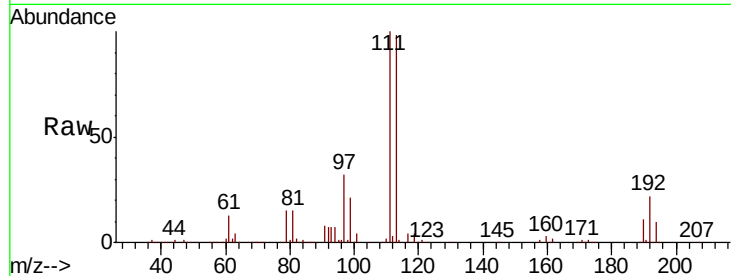
#35
 Dibromofluoromethane
 Concen: 47.89 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.7	121.1
192	22.7	17.8	26.6

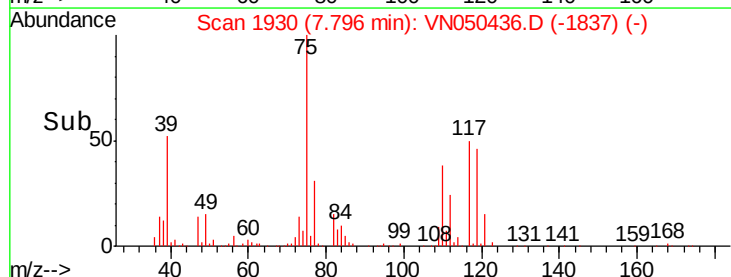
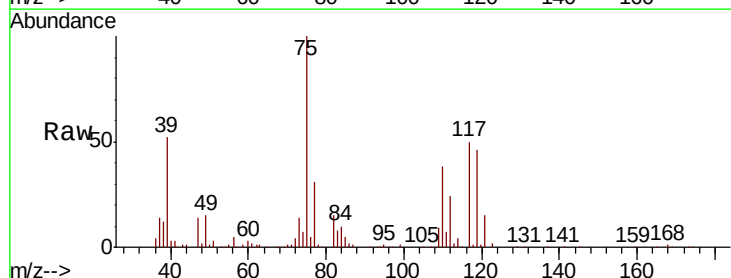
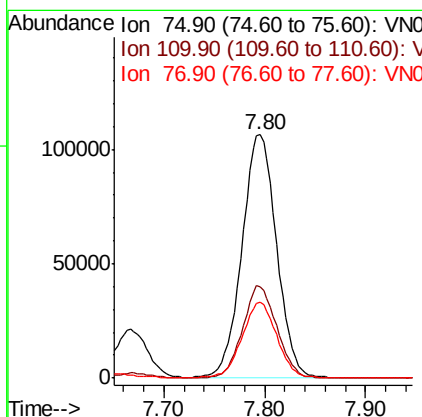
Manual Integrations
 APPROVED

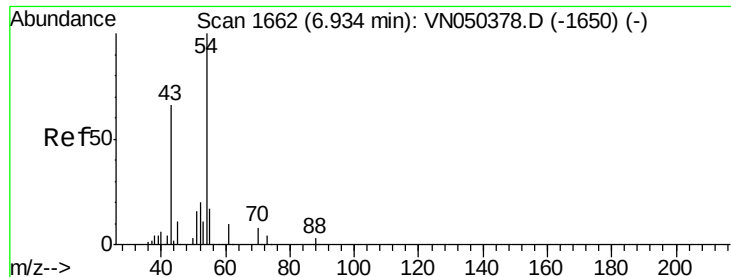
MMDadoda
 8/8/2018 10:47:53 AM



#36
 1,1-Dichloropropene
 Concen: 19.49 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.4	18.4	55.2
77	31.9	25.3	37.9





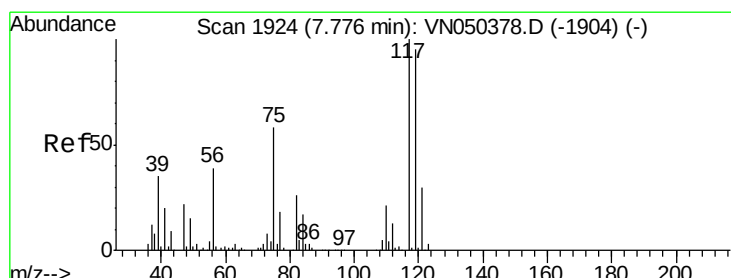
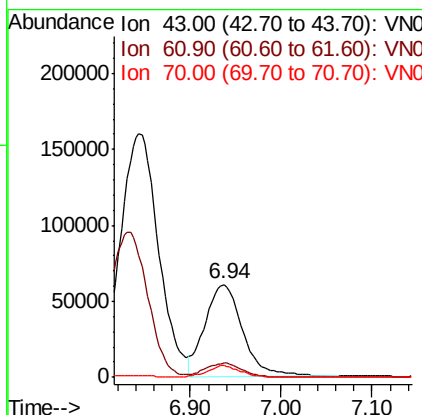
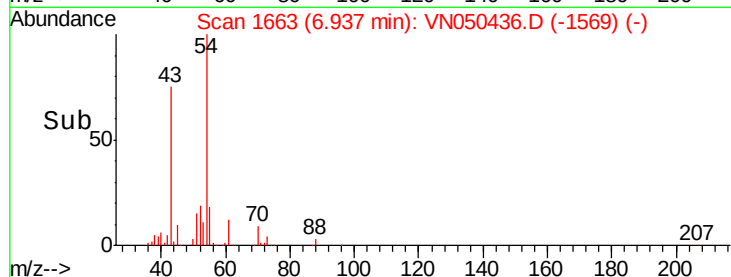
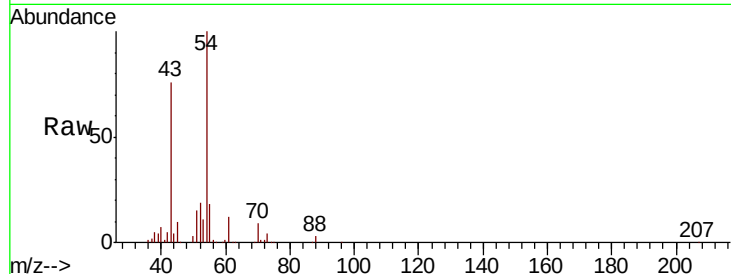
#37
Ethyl Acetate
Concen: 18.77 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.8	17.8
70	10.7	8.4	12.6

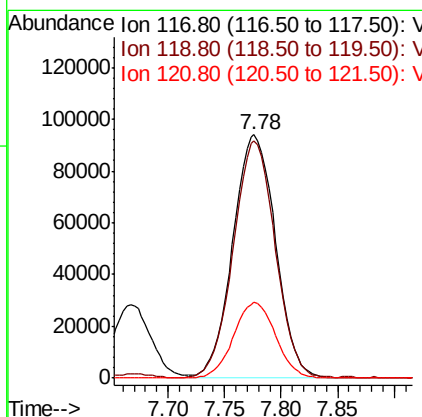
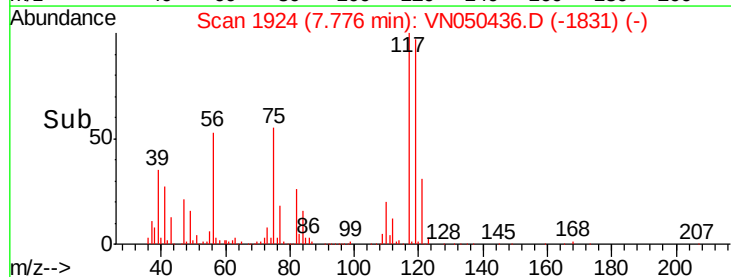
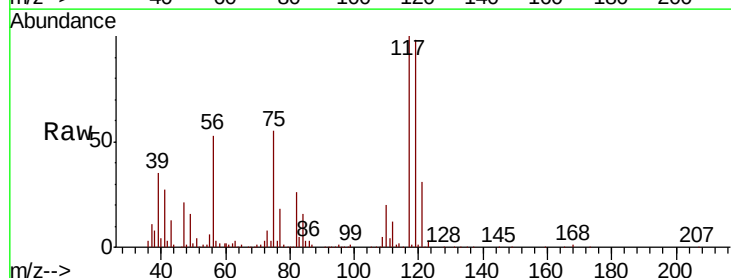
Manual Integrations
APPROVED

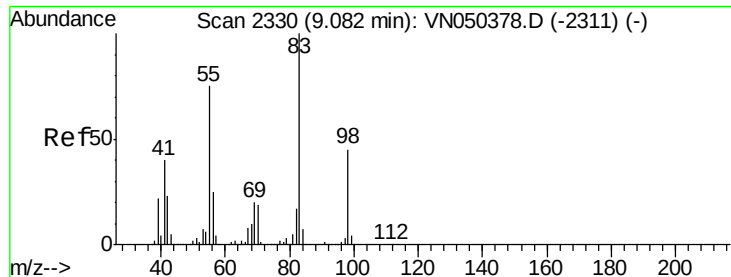
MMDadoda
8/8/2018 10:47:53 AM



#38
Carbon Tetrachloride
Concen: 18.16 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.6	77.4	116.0
121	30.9	23.9	35.9





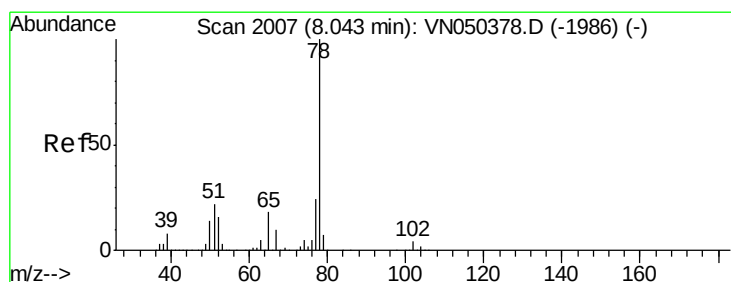
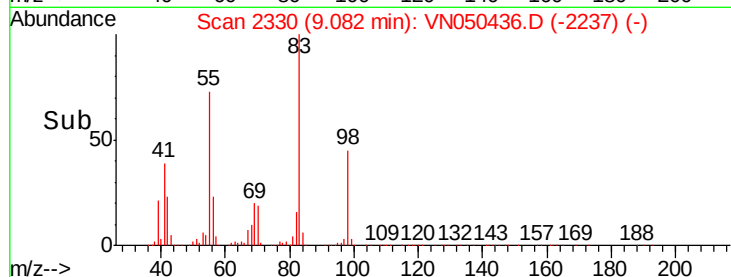
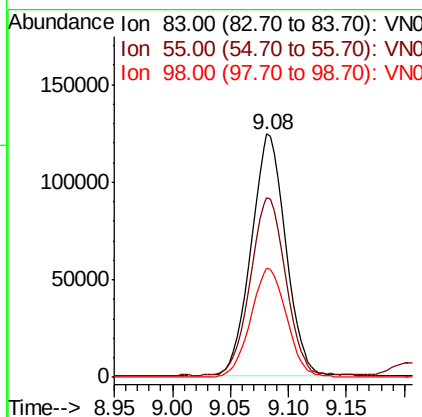
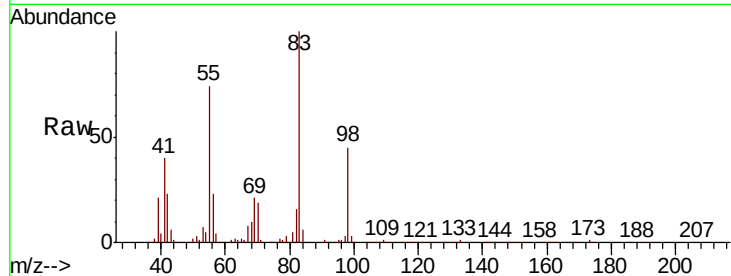
#39
Methylvlcyclohexane
Concen: 18.22 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	257614		
55	73.0		61.8	92.8
98	44.7		36.5	54.7

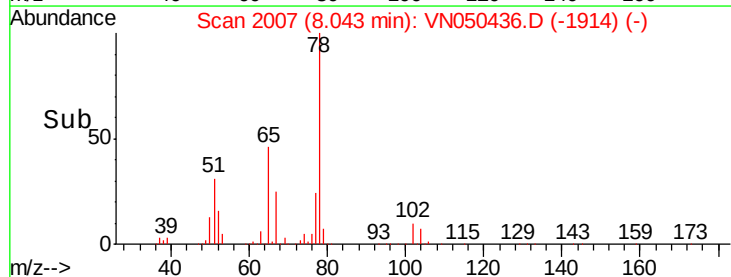
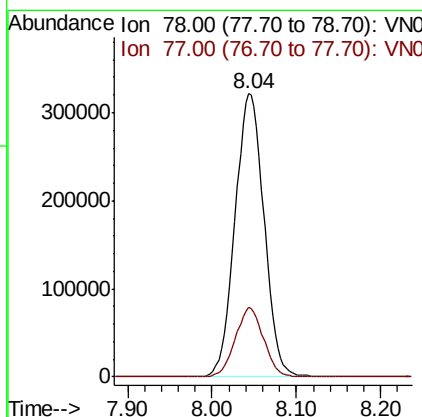
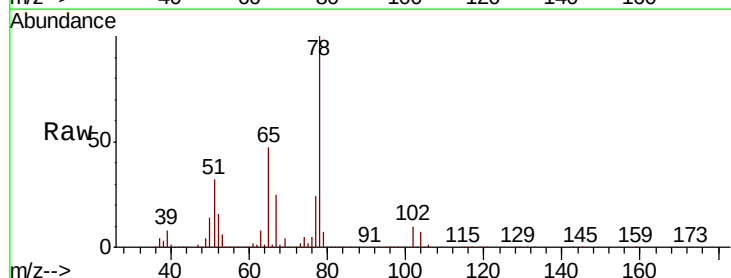
Manual Integrations
APPROVED

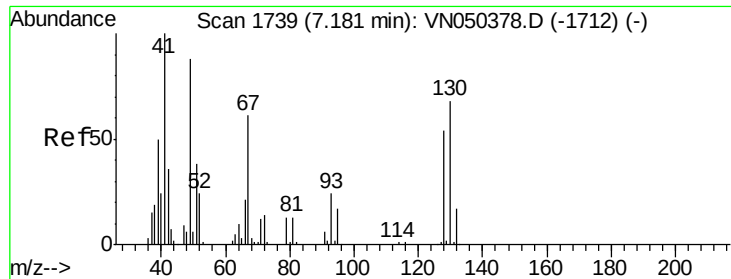
MMDadoda
8/8/2018 10:47:53 AM



#40
Benzene
Concen: 19.37 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	771217		
77	24.3		18.7	28.1





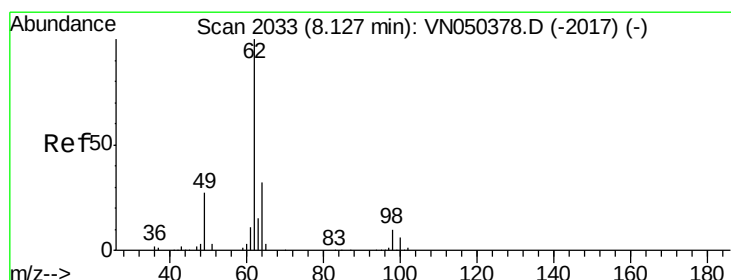
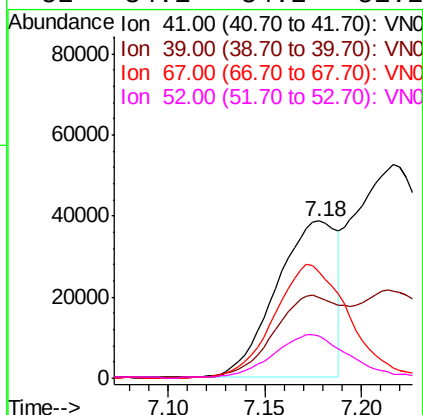
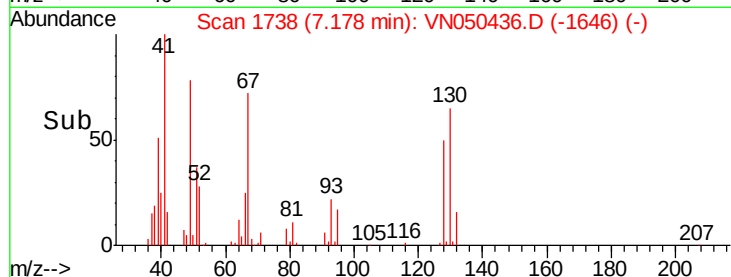
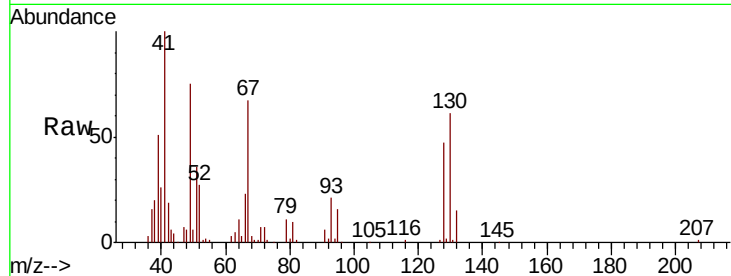
#41
Methacrylonitrile
Concen: 16.91 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.2	55.8	83.6	
67	90.9	84.3	126.5	
52	34.1	34.2	51.2	#

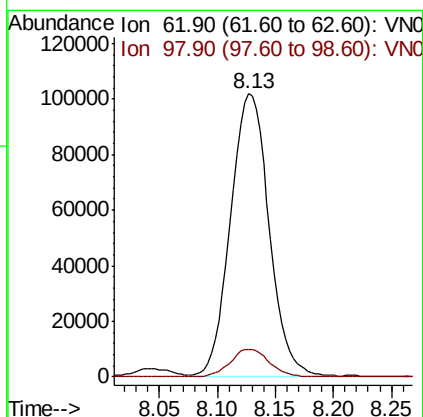
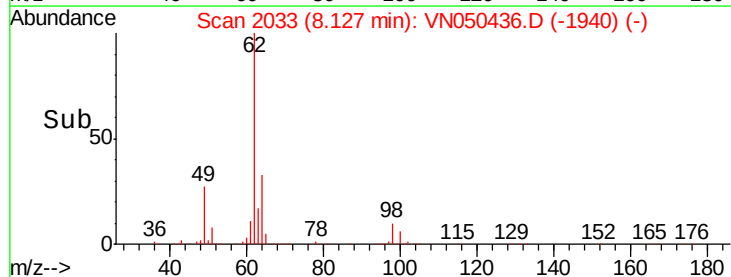
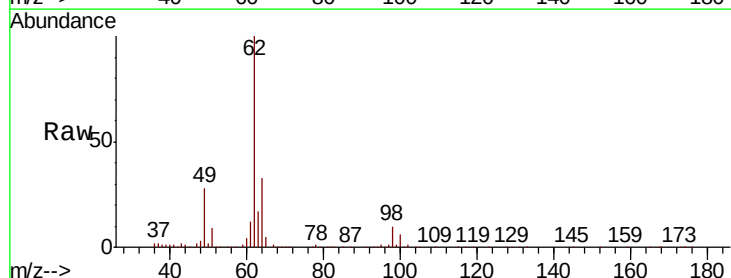
Manual Integrations
APPROVED

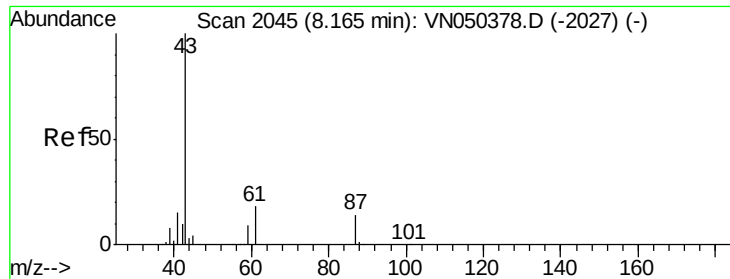
MMDadoda
8/8/2018 10:47:53 AM



#42
1,2-Dichloroethane
Concen: 18.53 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.0	0.0	18.8	





#43

Isopropyl Acetate

Concen: 19.02 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

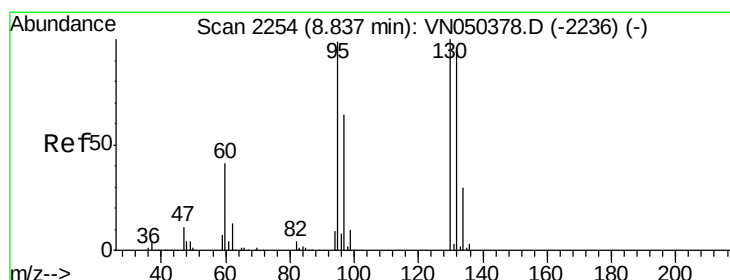
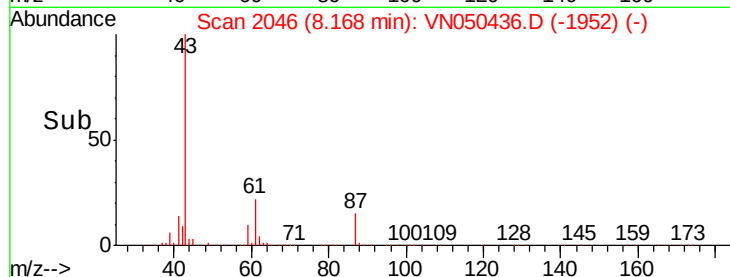
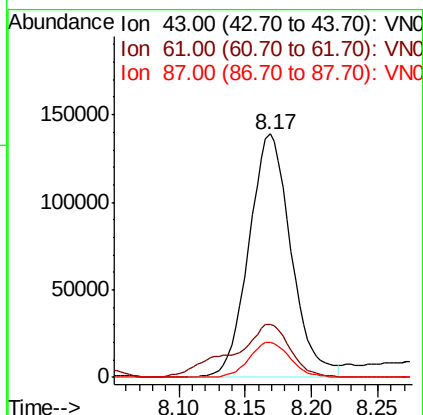
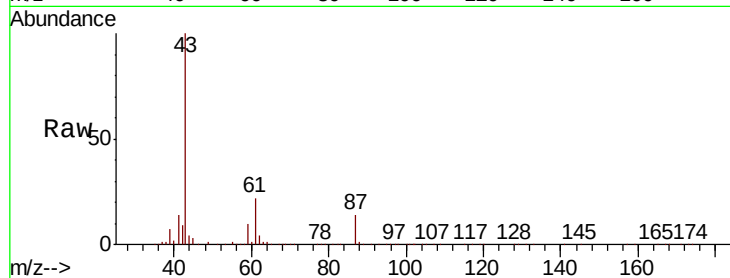
ClientSampled :

VN0807MBSD01

Tot Ion:	43	Resp:	306262
Ion Ratio	Lower	Upper	
43	100		
61	29.2	15.8	23.6#
87	14.0	10.3	15.5

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#44

Trichloroethene

Concen: 19.46 ug/l

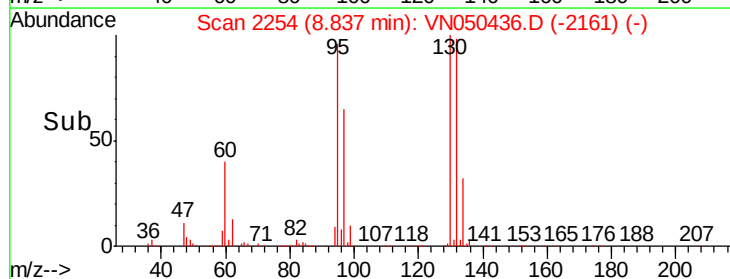
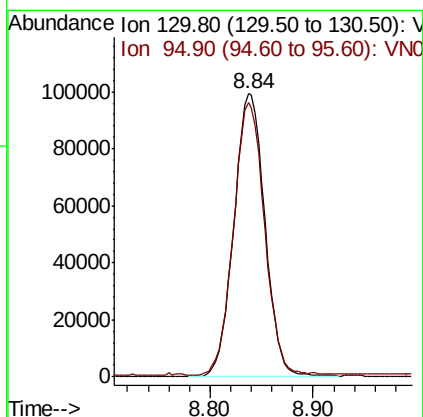
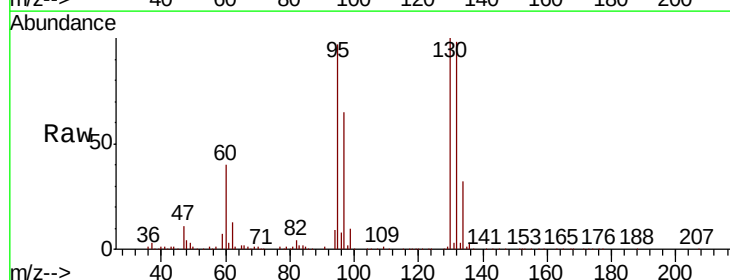
RT: 8.84 min Scan# 2254

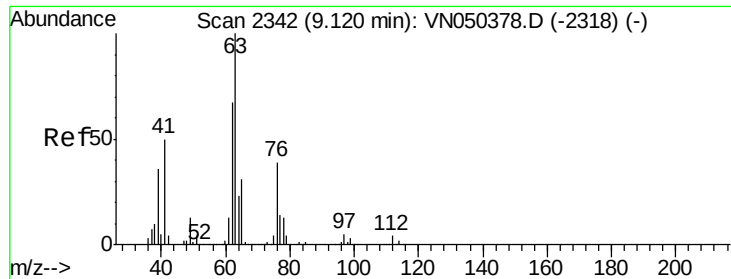
Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion:	130	Resp:	208150
Ion Ratio	Lower	Upper	
130	100		
95	96.5	0.0	194.6





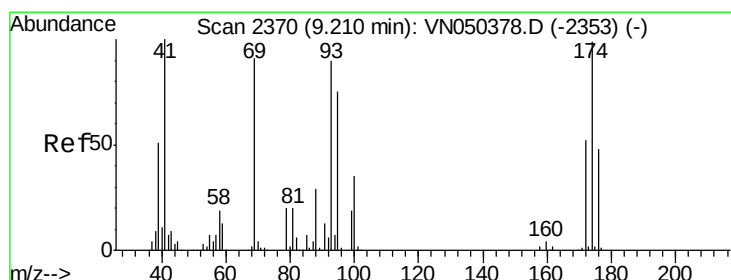
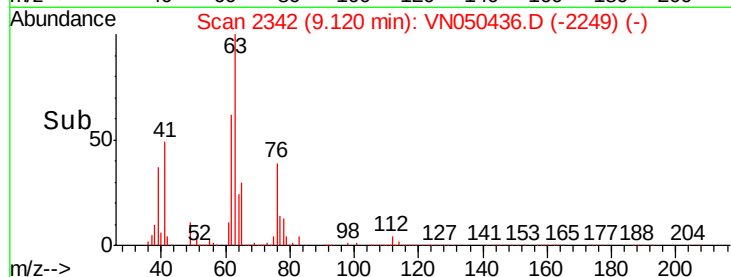
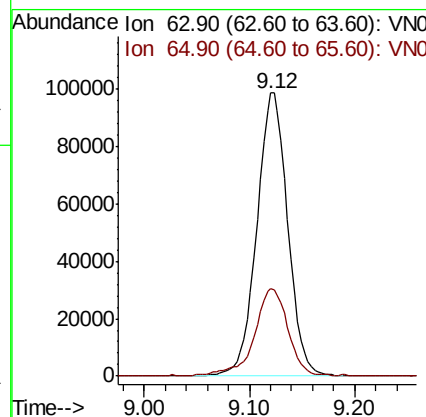
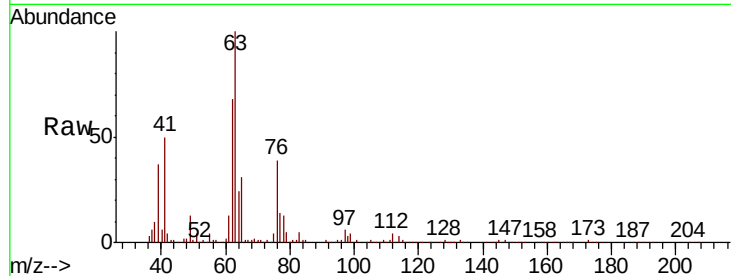
#45
 1,2-Dichloropropane
 Concen: 19.24 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.6	25.5	38.3

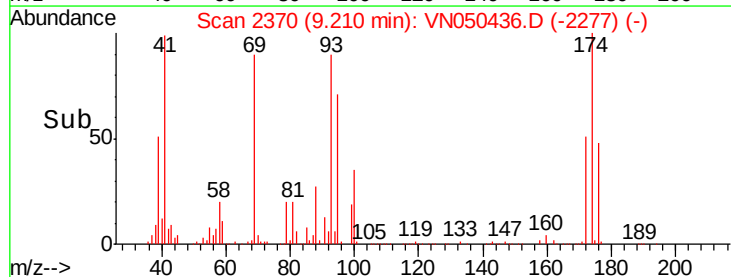
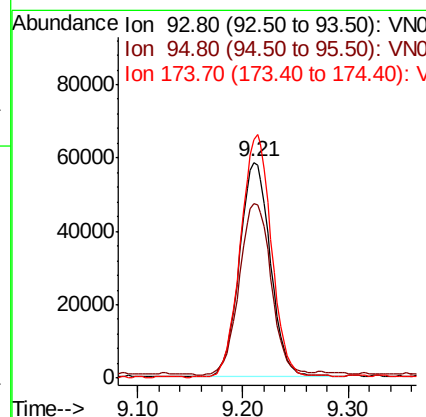
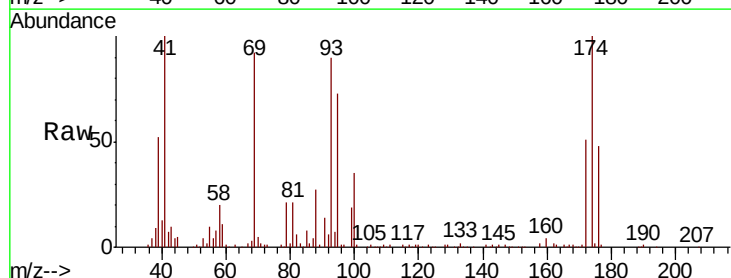
Manual Integrations
 APPROVED

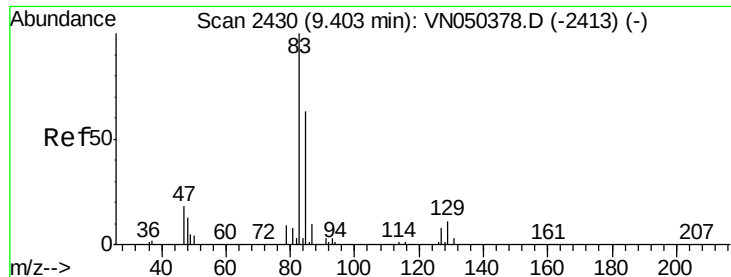
MMDadoda
 8/8/2018 10:47:53 AM



#46
 Dibromomethane
 Concen: 18.39 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.1	66.6	100.0
174	112.8	87.1	130.7





#47

Bromodichloromethane

Concen: 18.18 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

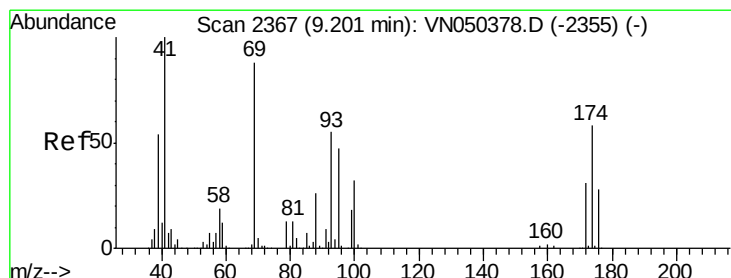
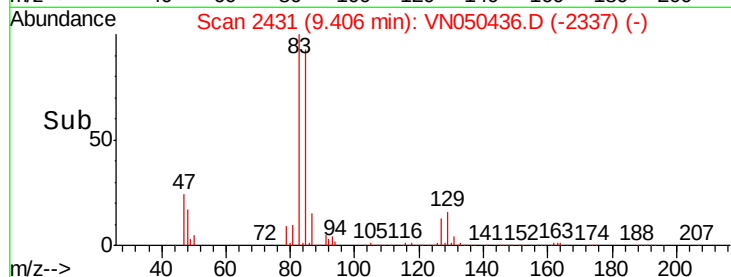
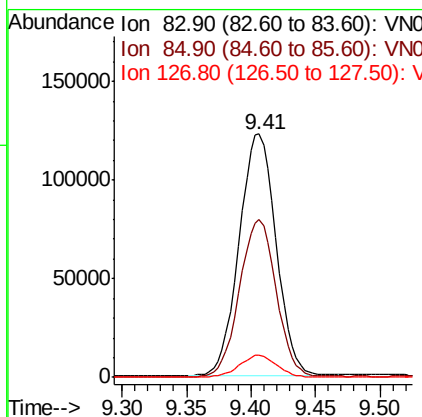
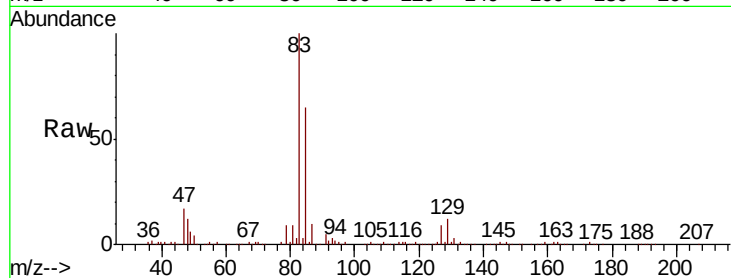
ClientSampleId :

VN0807MBSD01

Tot Ion:	83	Resp:	243359
Ion Ratio	Lower	Upper	
83	100		
85	65.2	51.1	76.7
127	8.9	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#48

Methyl methacrylate

Concen: 18.32 ug/l

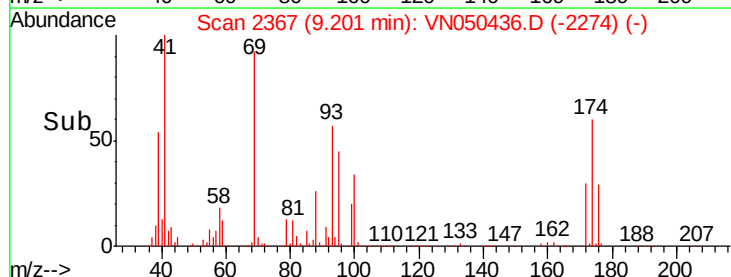
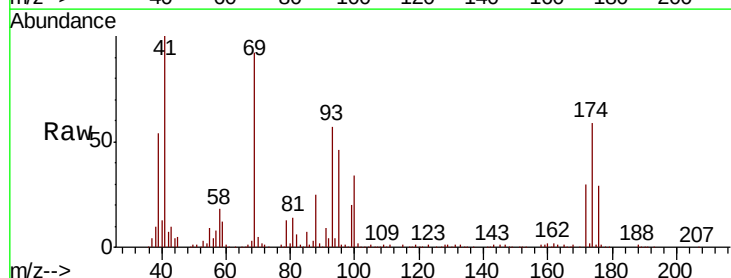
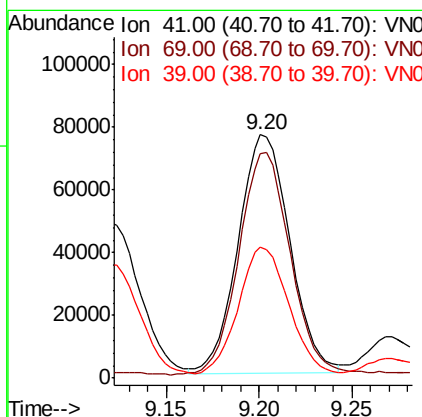
RT: 9.20 min Scan# 2367

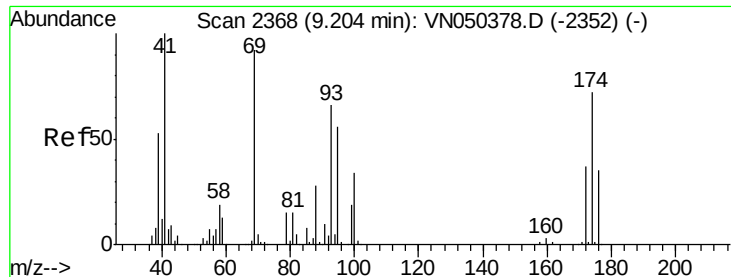
Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion:	41	Resp:	147848
Ion Ratio	Lower	Upper	
41	100		
69	92.6	70.6	105.8
39	53.4	43.9	65.9





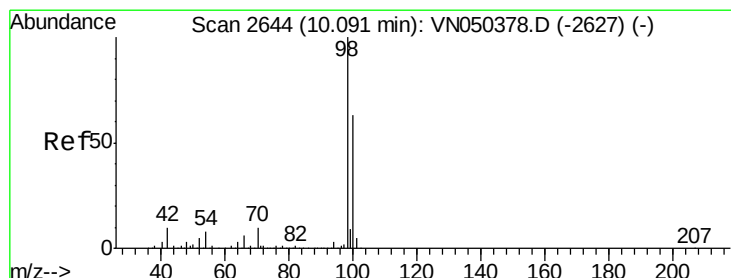
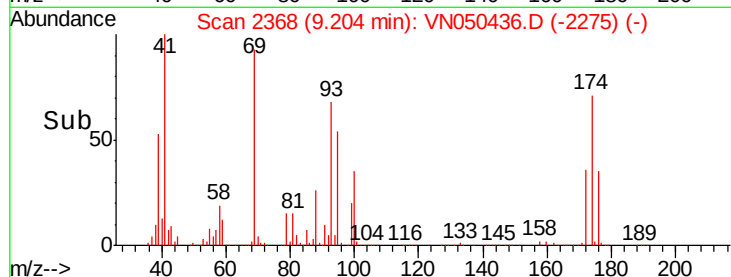
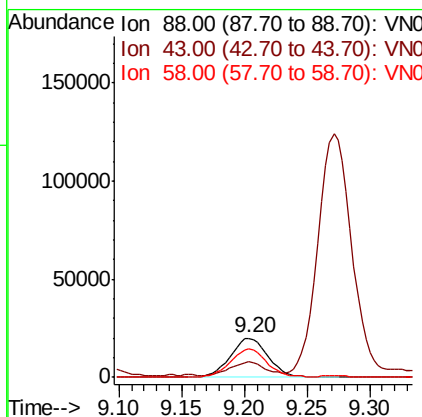
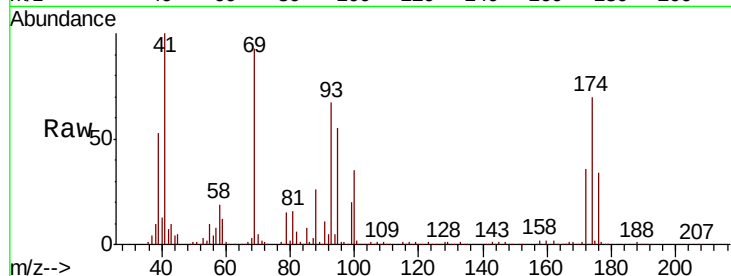
#49
1,4-Dioxane
Concen: 334.50 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.8	26.9	40.3
58	71.0	57.3	85.9

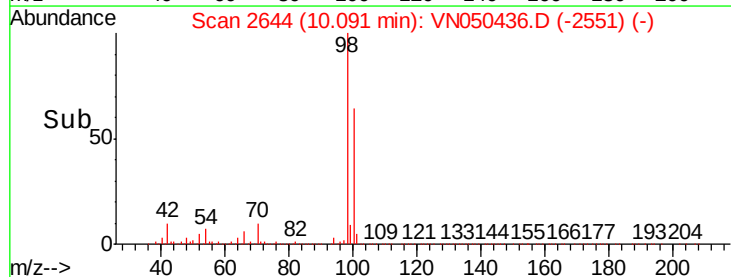
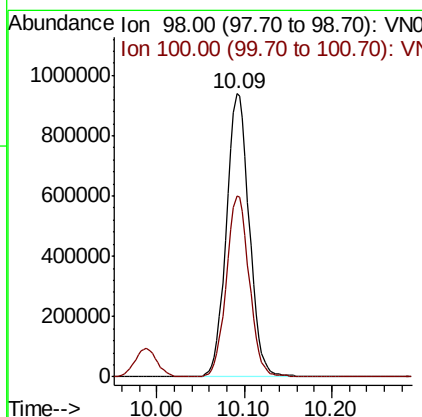
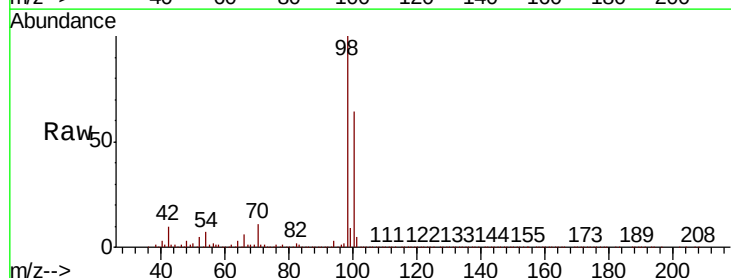
Manual Integrations
APPROVED

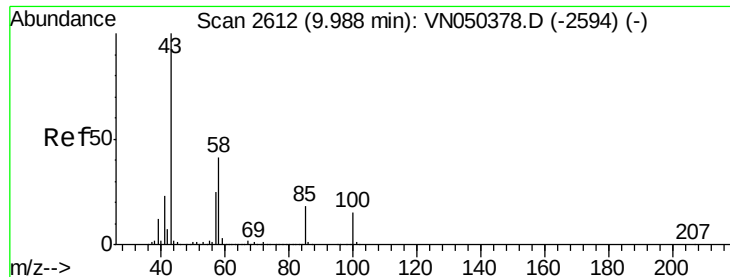
MMDadoda
8/8/2018 10:47:53 AM



#50
Toluene-d8
Concen: 47.95 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	50.7	76.1





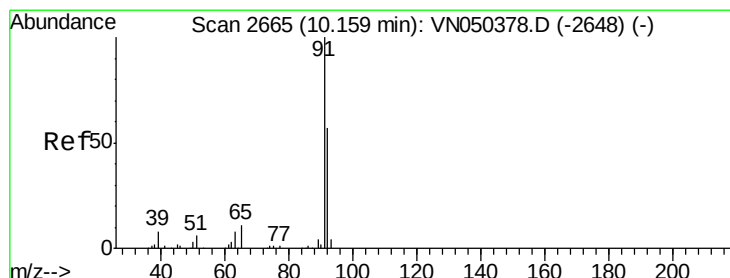
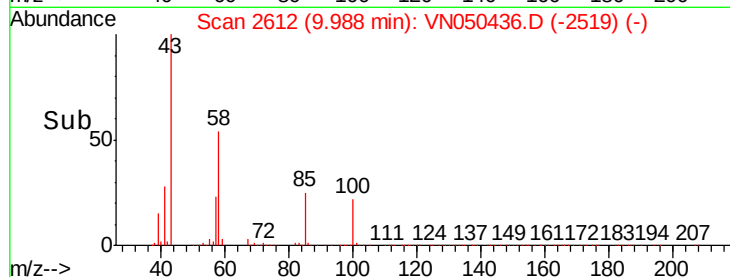
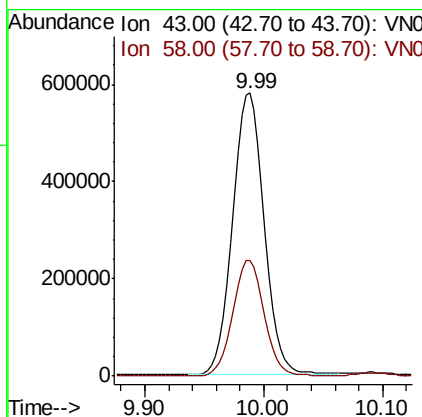
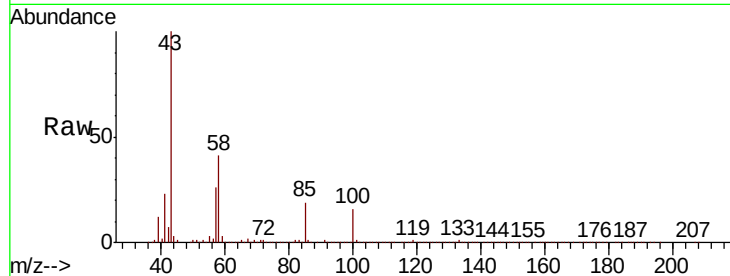
#51
4-Methyl-2-Pentanone
Concen: 91.97 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion: 43 Resp: 1066349
Ion Ratio Lower Upper
43 100
58 40.8 31.9 47.9

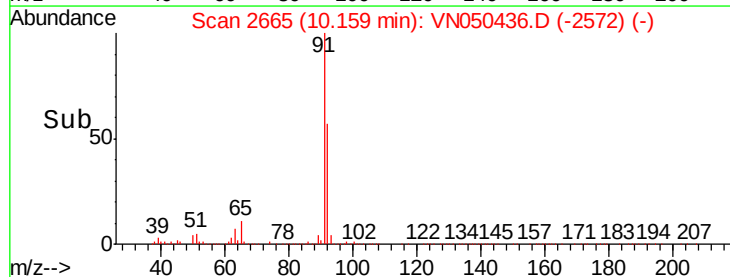
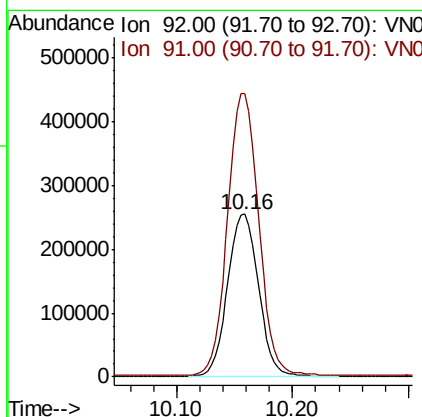
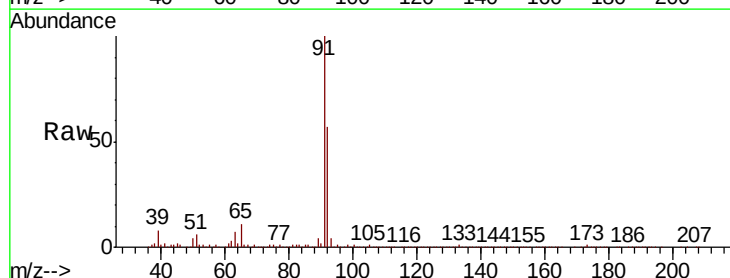
Manual Integrations
APPROVED

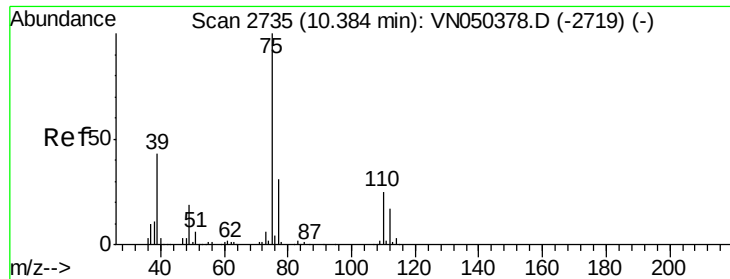
MMDadoda
8/8/2018 10:47:53 AM



#52
Toluene
Concen: 19.71 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion: 92 Resp: 471297
Ion Ratio Lower Upper
92 100
91 173.4 140.3 210.5





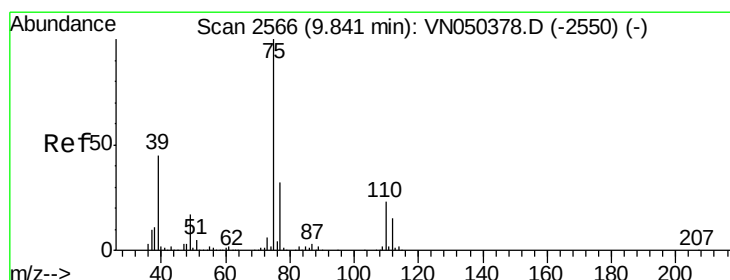
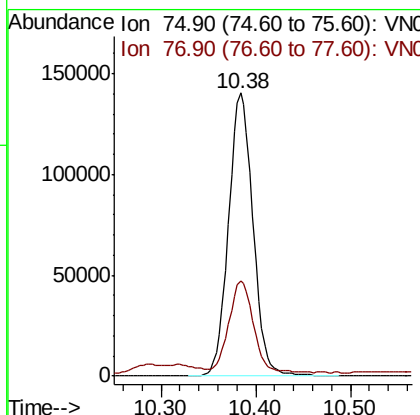
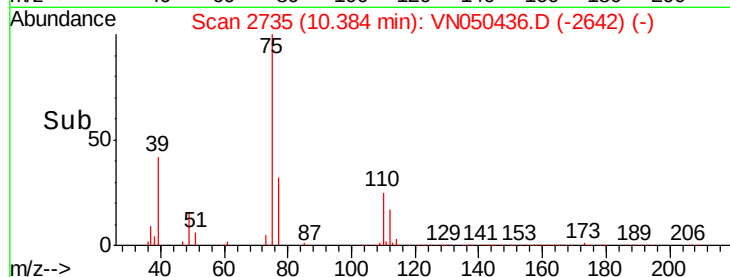
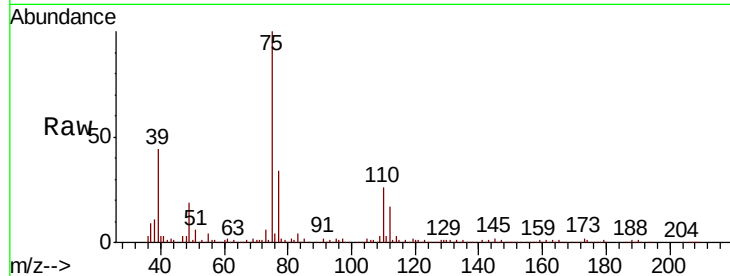
#53
t-1,3-Dichloropropene
Concen: 18.83 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion: 75 Resp: 253080
Ion Ratio Lower Upper
75 100
77 32.5 24.9 37.3

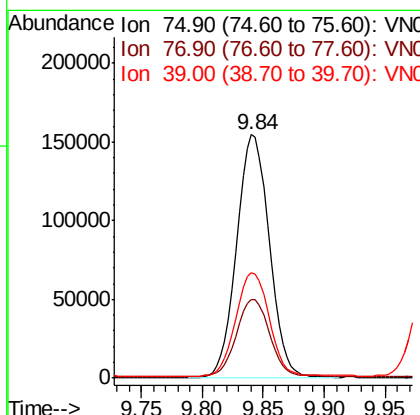
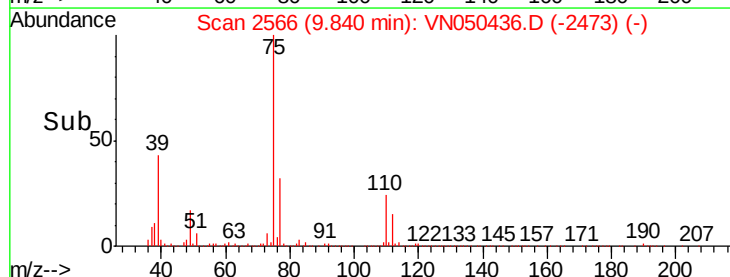
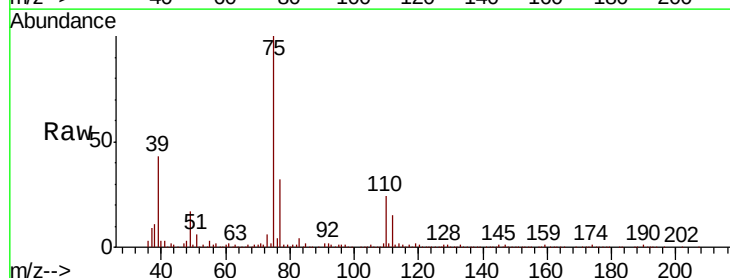
Manual Integrations
APPROVED

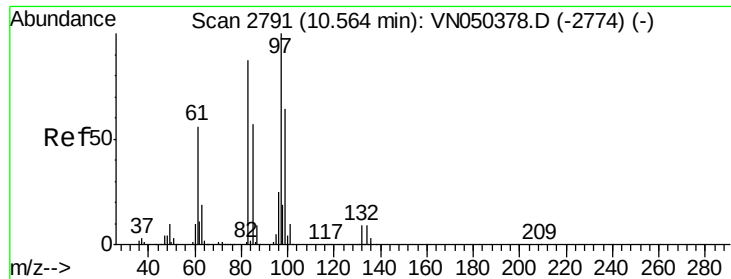
MMDadoda
8/8/2018 10:47:53 AM



#54
cis-1,3-Dichloropropene
Concen: 19.19 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion: 75 Resp: 287921
Ion Ratio Lower Upper
75 100
77 31.5 25.5 38.3
39 42.4 36.6 55.0





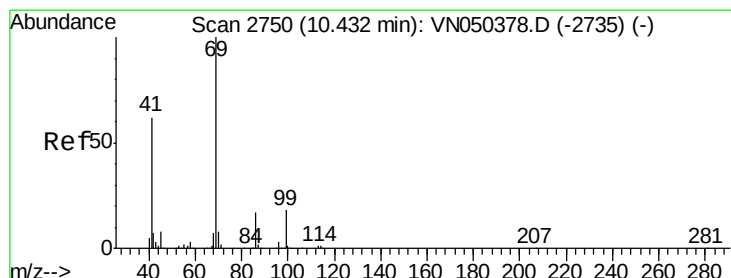
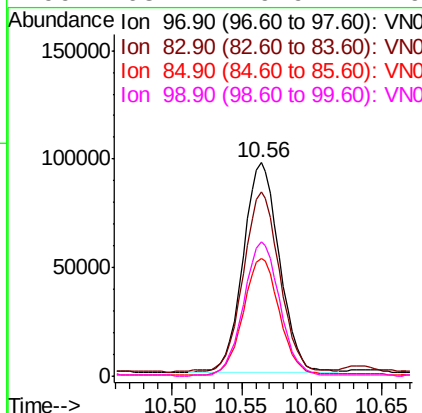
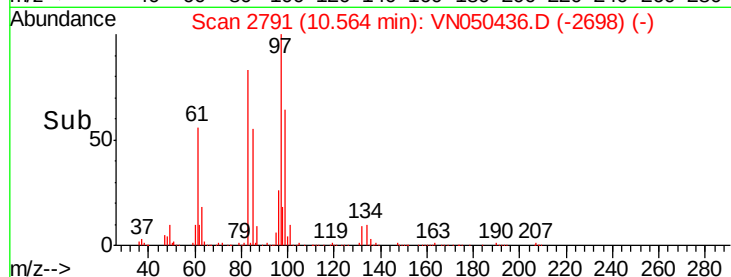
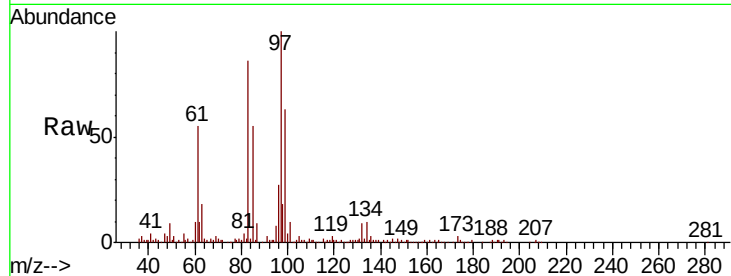
#55
 1,1,2-Trichloroethane
 Concen: 18.83 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		175792		
83	84.9	69.2	103.8		
85	55.7	44.0	66.0		
99	63.7	49.9	74.9		

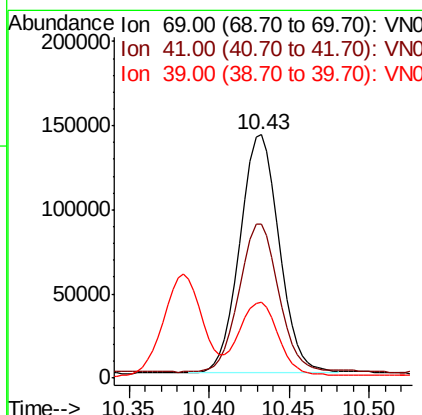
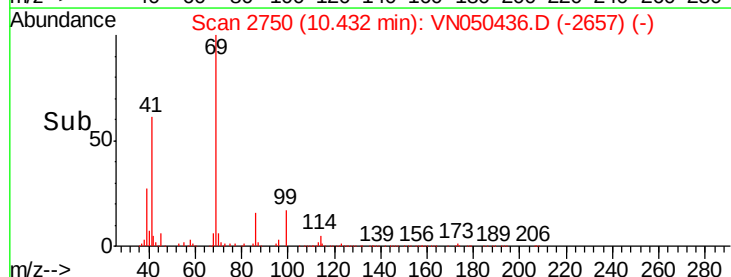
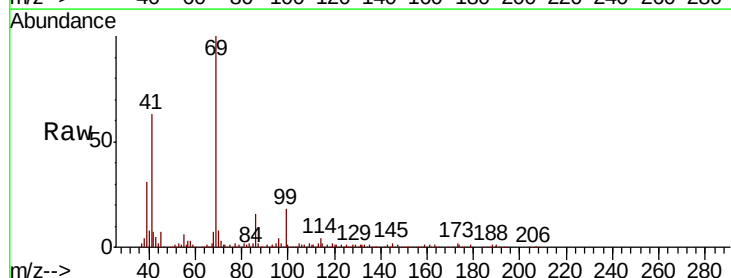
Manual Integrations
 APPROVED

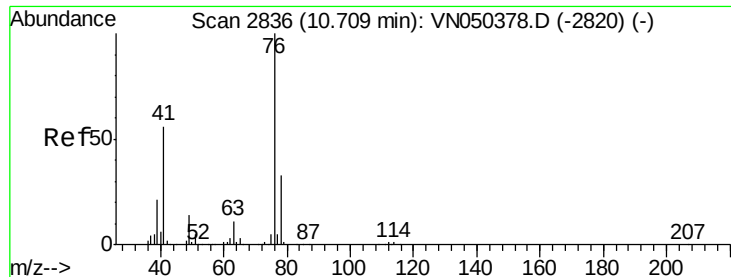
MMDadoda
 8/8/2018 10:47:53 AM



#56
 Ethyl methacrylate
 Concen: 19.09 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		237829		
41	62.6	51.0	76.4		
39	30.2	26.6	40.0		





#57

1,3-Dichloropropane

Concen: 19.21 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0807MBSD01

Tot Ion: 76 Resp: 294363

Ion Ratio Lower Upper

76 100

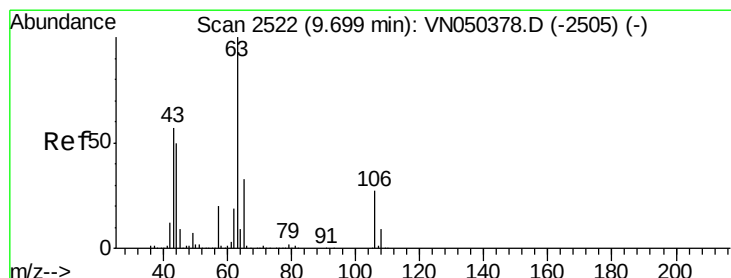
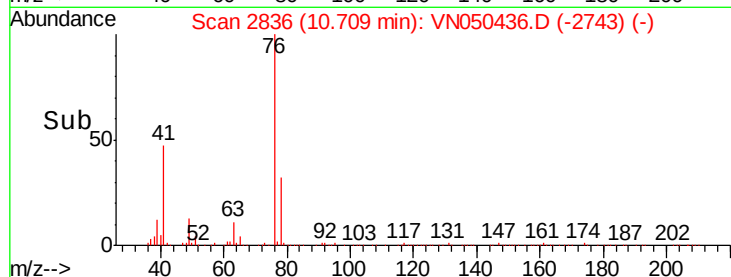
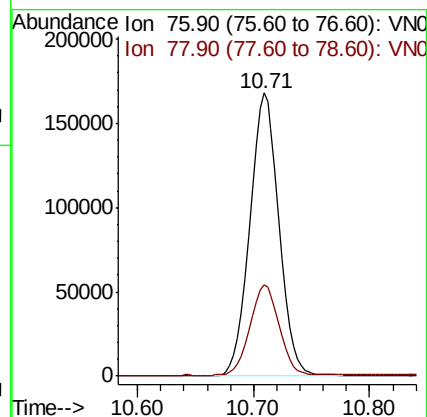
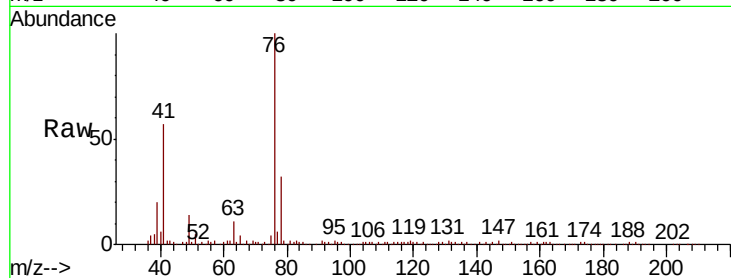
78 31.9 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

8/8/2018 10:47:53 AM



#58

2-Chloroethyl Vinyl ether

Concen: 92.60 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. -0.00 min

Lab File: VN050436.D

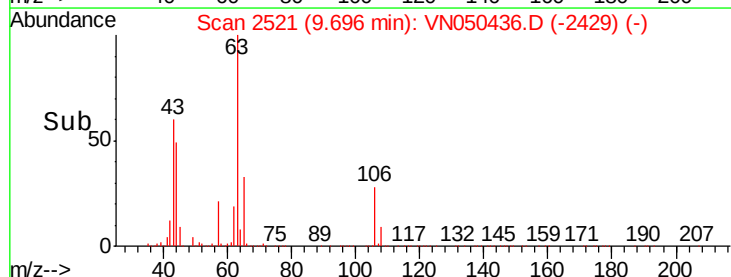
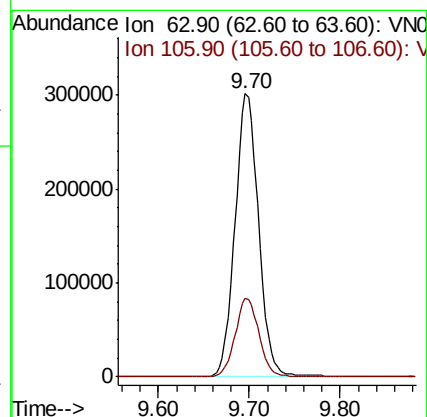
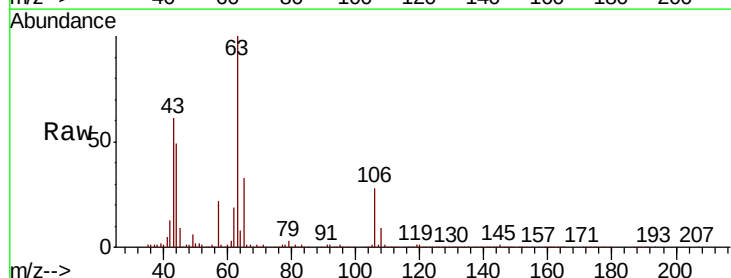
Acq: 7 Aug 2018 17:05

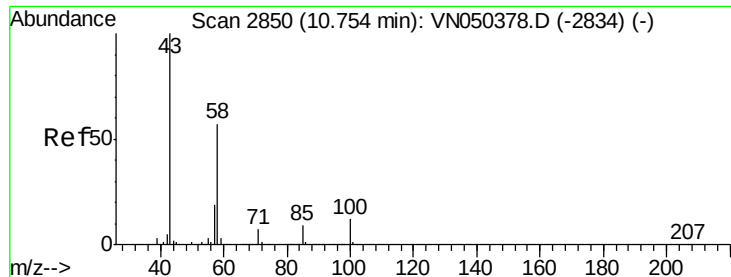
Tgt Ion: 63 Resp: 540789

Ion Ratio Lower Upper

63 100

106 27.8 21.7 32.5





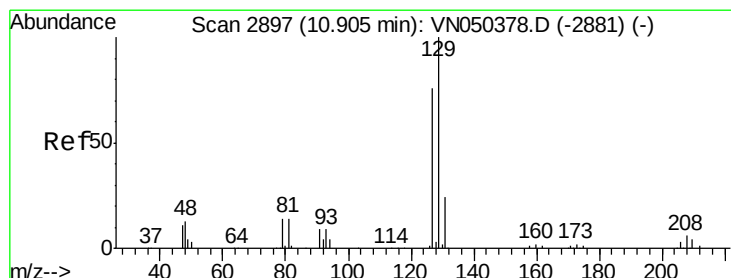
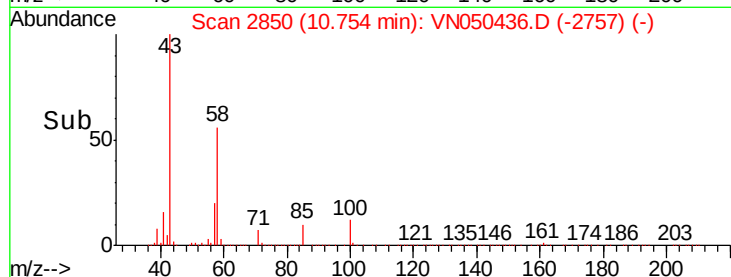
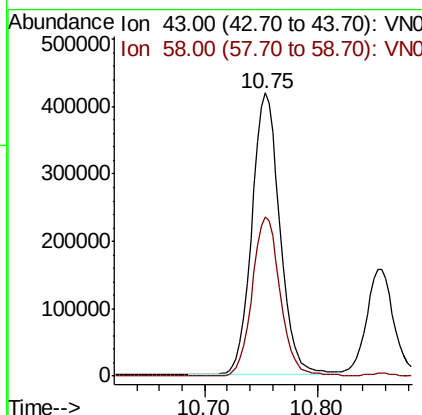
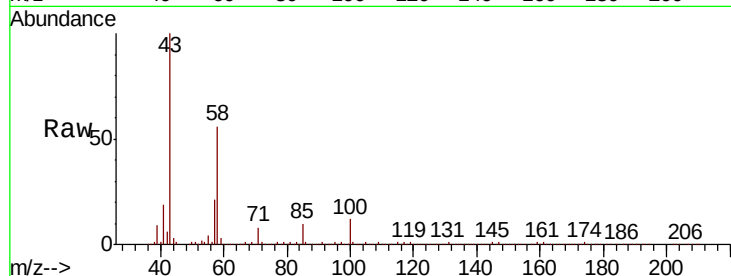
#59
2-Hexanone
Concen: 88.78 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion	43	Resp	718414
Ion Ratio	100	Lower	Upper
43	100		
58	56.8	27.6	82.7

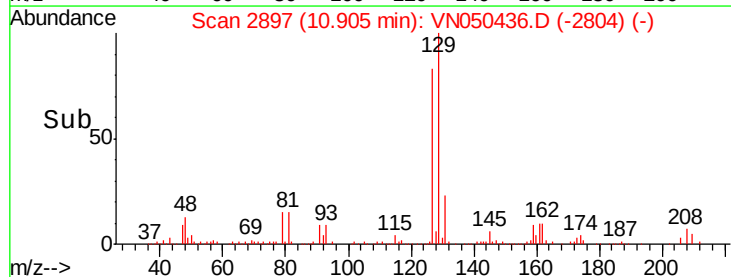
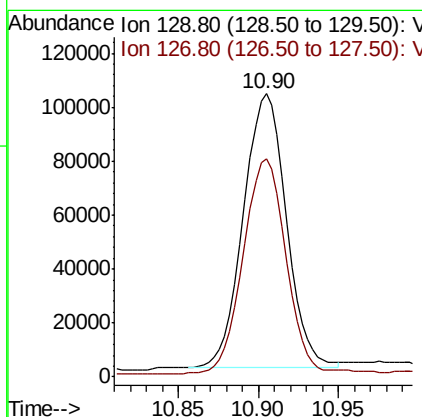
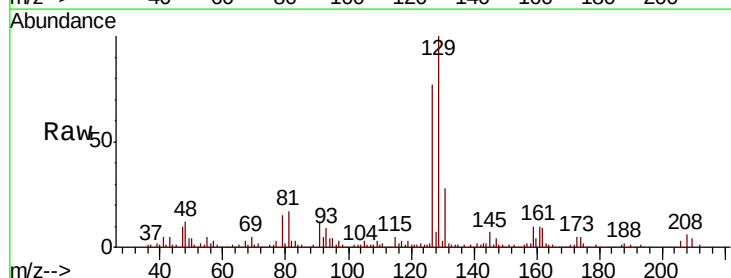
Manual Integrations
APPROVED

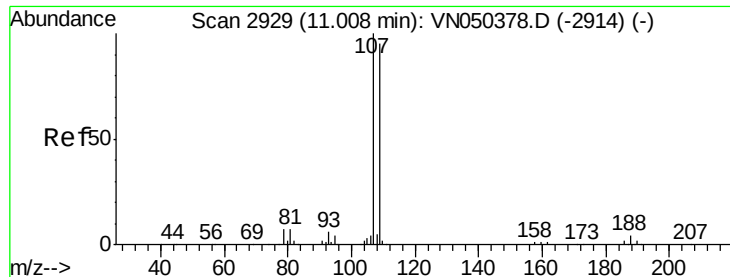
MMDadoda
8/8/2018 10:47:53 AM



#60
Dibromochloromethane
Concen: 18.15 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	129	Resp	186719
Ion Ratio	100	Lower	Upper
129	100		
127	77.4	38.0	113.9





#61

1,2-Dibromoethane

Concen: 18.67 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0807MBSD01

Tot Ion: 107 Resp: 171844

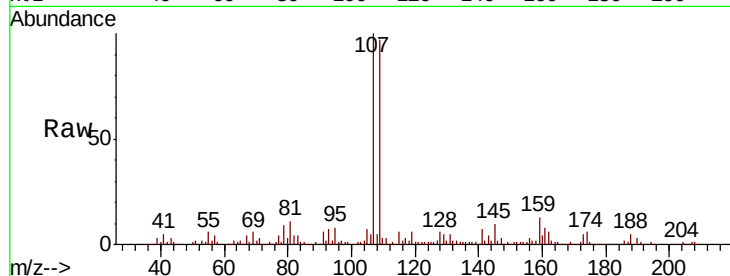
Ion Ratio Lower Upper

107 100

109 93.6 74.6 112.0

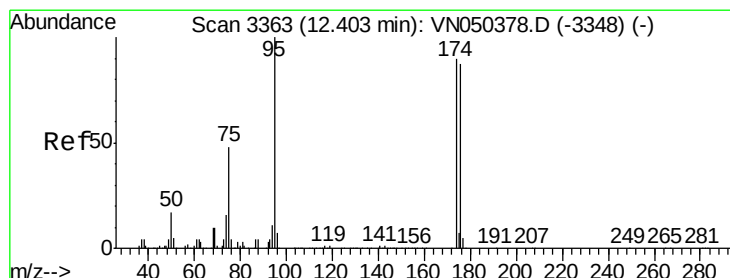
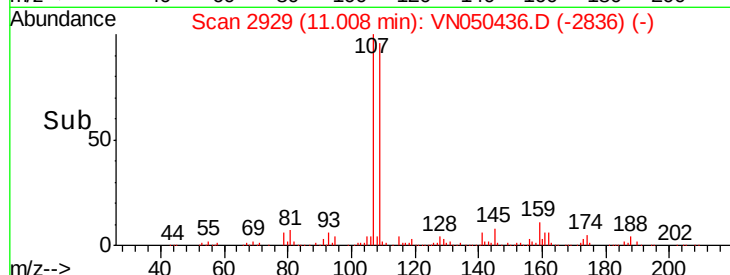
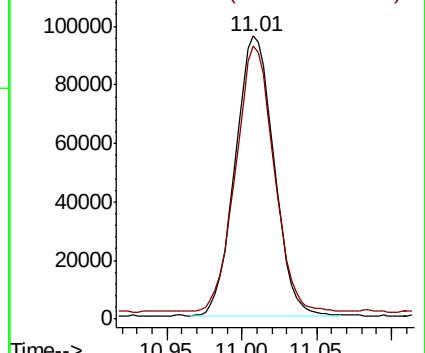
Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.31 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

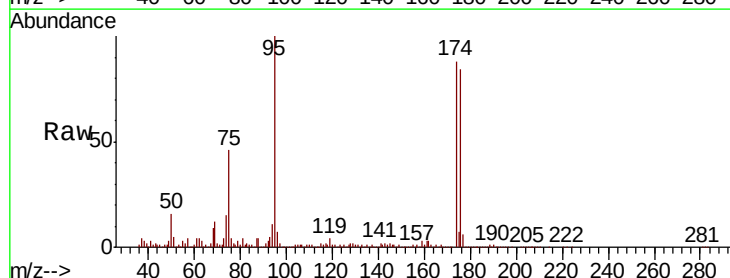
Tgt Ion: 95 Resp: 585461

Ion Ratio Lower Upper

95 100

174 87.6 0.0 178.2

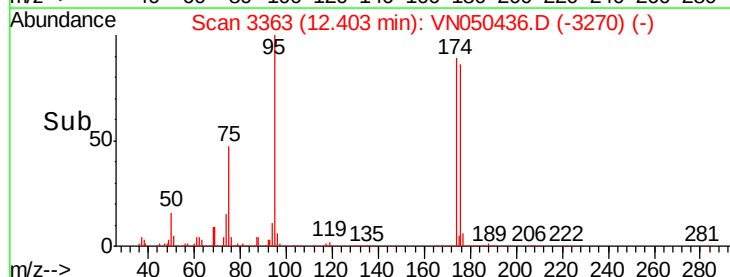
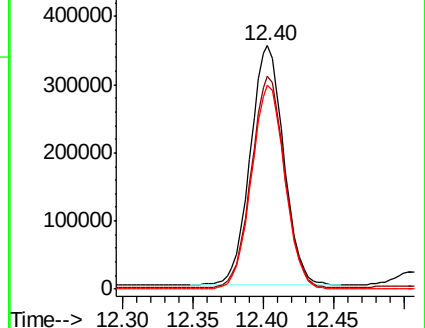
176 85.2 0.0 173.4

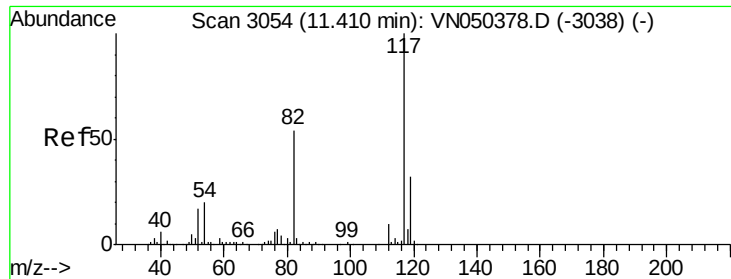


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





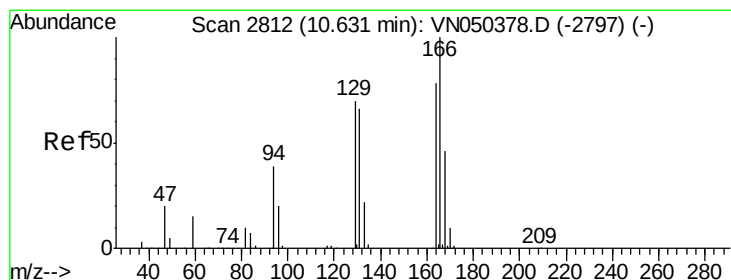
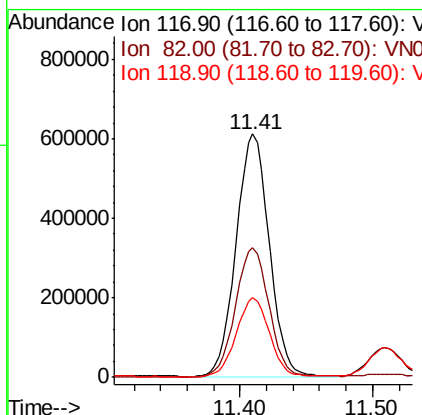
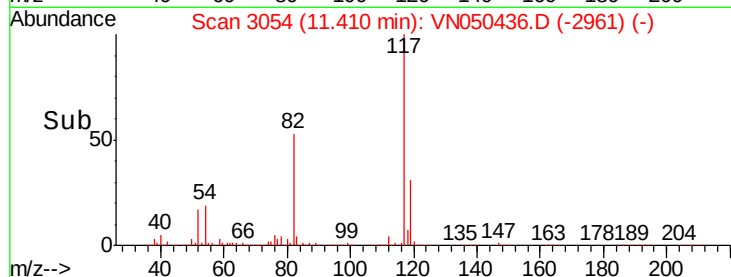
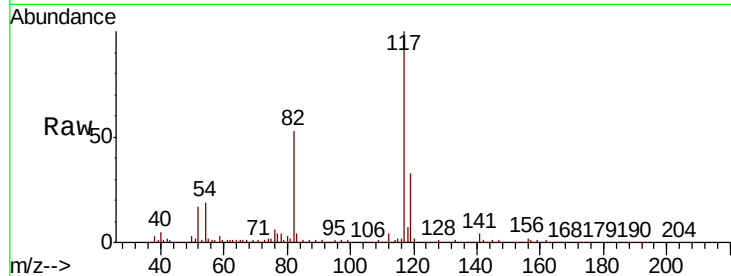
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion:117 Resp: 1058137
Ion Ratio Lower Upper
117 100
82 53.2 43.7 65.5
119 32.4 26.1 39.1

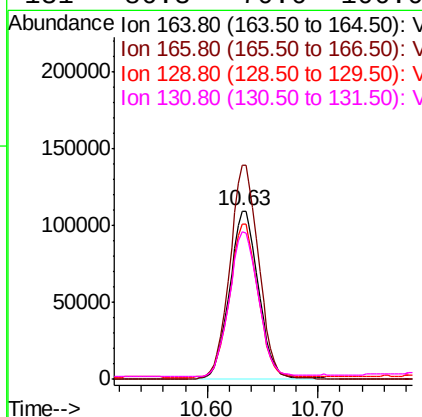
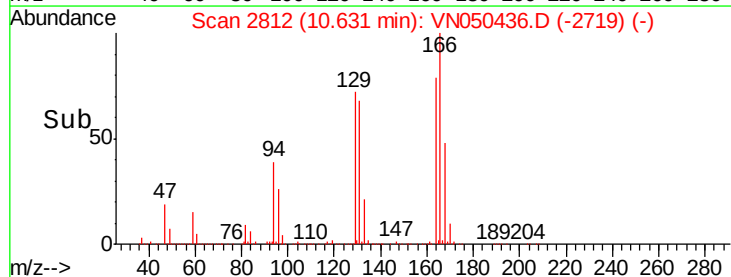
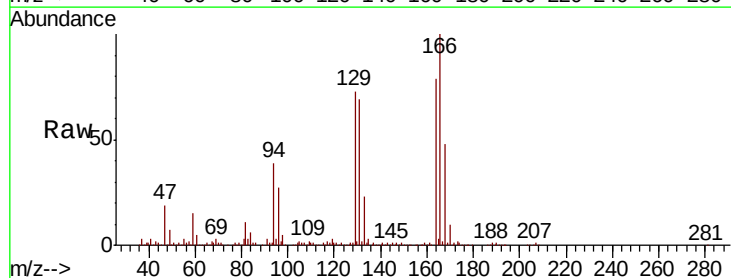
Manual Integrations
APPROVED

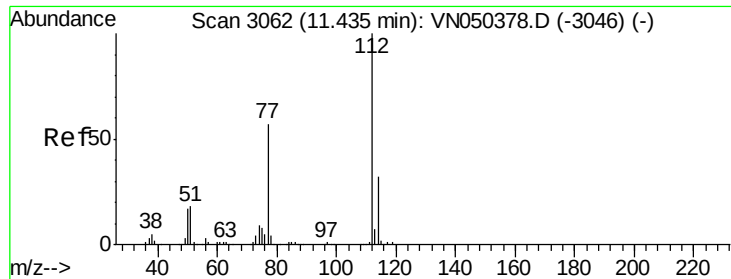
MMDadoda
8/8/2018 10:47:53 AM



#64
Tetrachloroethene
Concen: 19.97 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion:164 Resp: 197418
Ion Ratio Lower Upper
164 100
166 126.8 102.1 153.1
129 91.3 73.2 109.8
131 86.3 70.6 106.0





#65

Chlorobenzene

Concen: 19.13 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0807MBSD01

Tot Ion:112 Resp: 507412

Ion Ratio Lower Upper

112 100

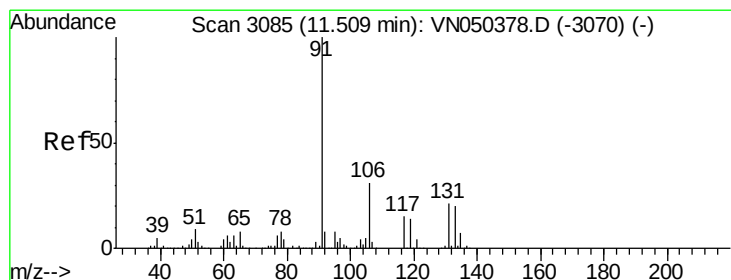
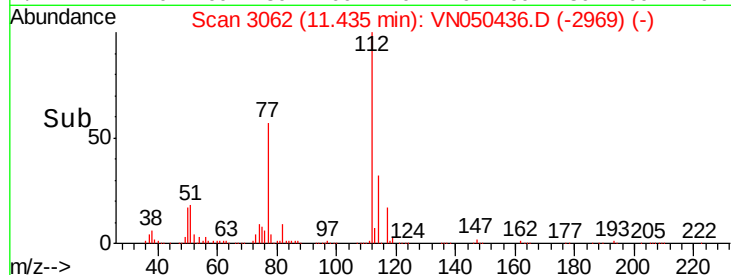
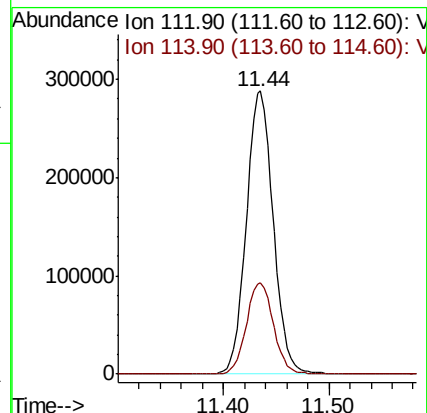
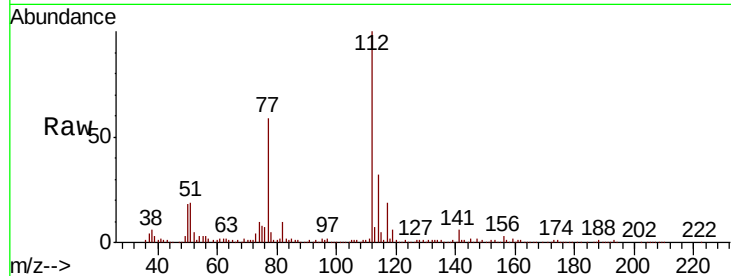
114 32.1 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

8/8/2018 10:47:53 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 19.21 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

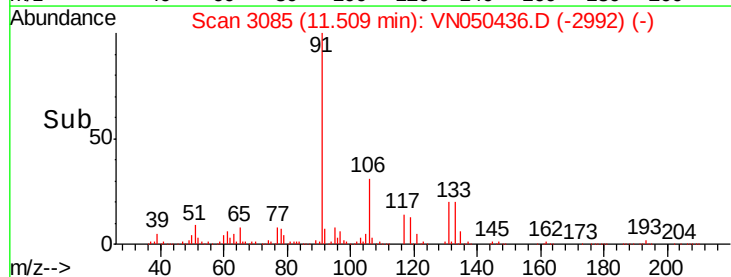
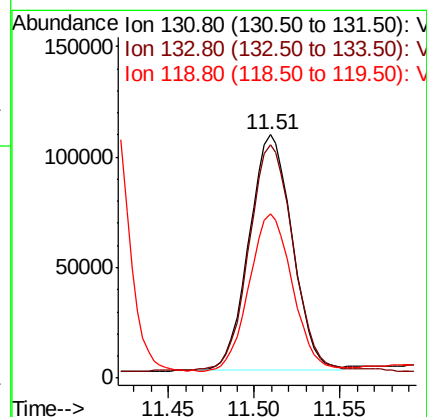
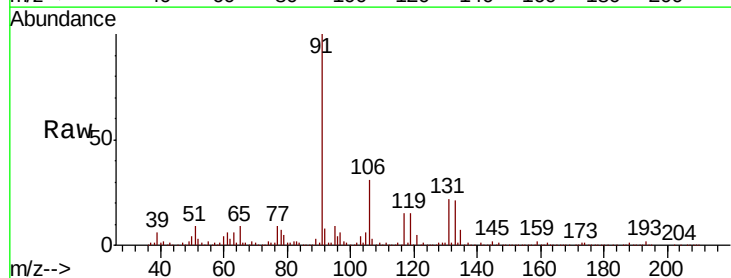
Tgt Ion:131 Resp: 185474

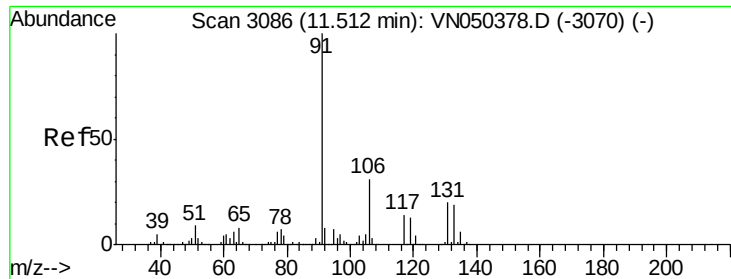
Ion Ratio Lower Upper

131 100

133 96.6 47.3 141.9

119 66.8 32.9 98.7





#67

Ethyl Benzene

Concen: 21.00 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0807MBS01

Tot Ion: 91 Resp: 900467

Ion Ratio Lower Upper

91 100

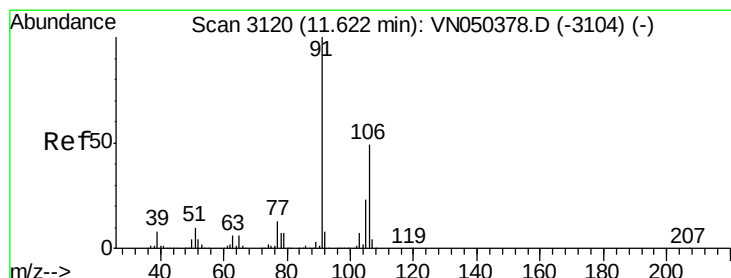
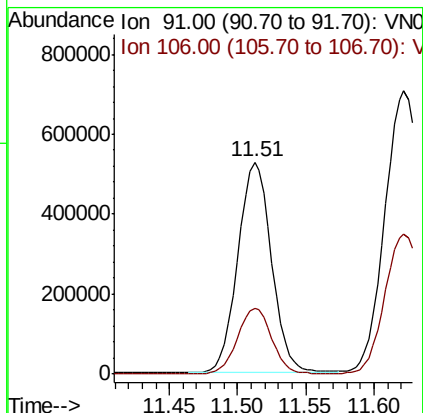
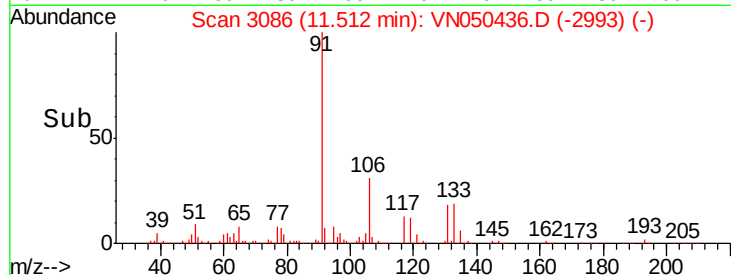
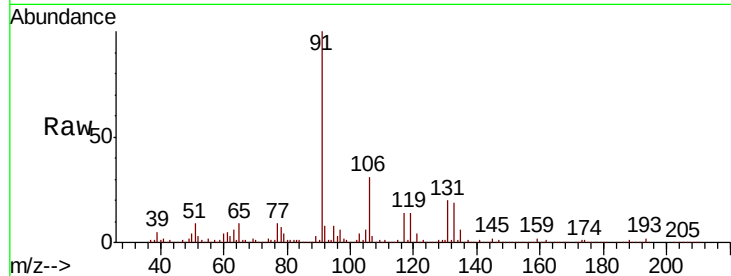
106 31.1 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

8/8/2018 10:47:53 AM



#68

m/p-Xylenes

Concen: 42.17 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN050436.D

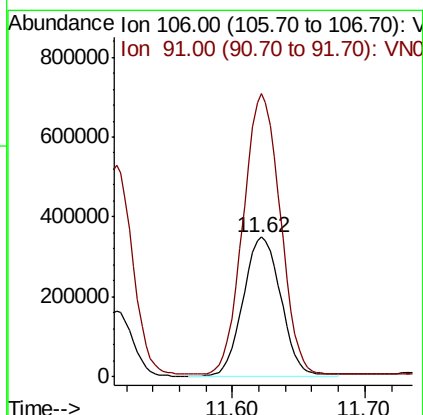
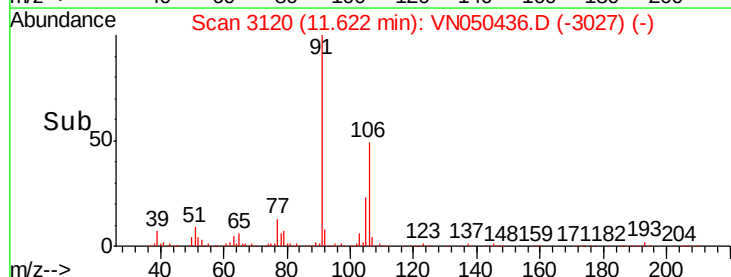
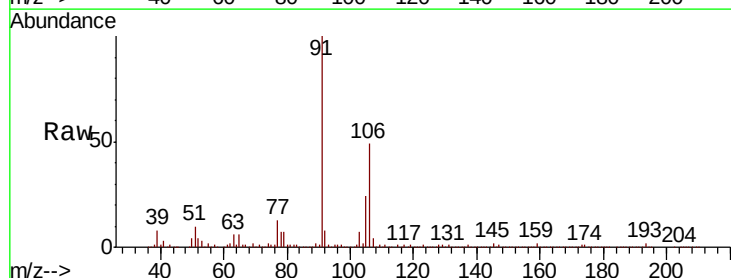
Acq: 7 Aug 2018 17:05

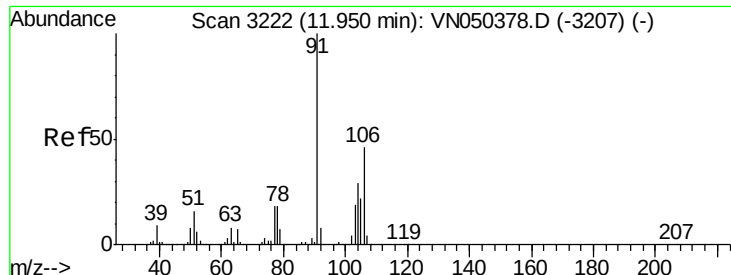
Tgt Ion: 106 Resp: 688389

Ion Ratio Lower Upper

106 100

91 198.1 162.2 243.2





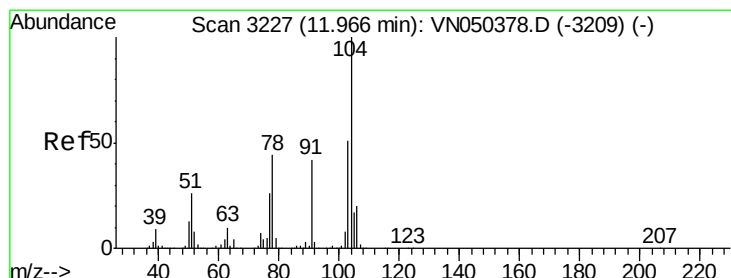
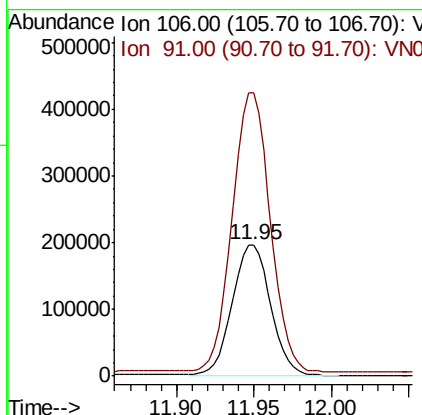
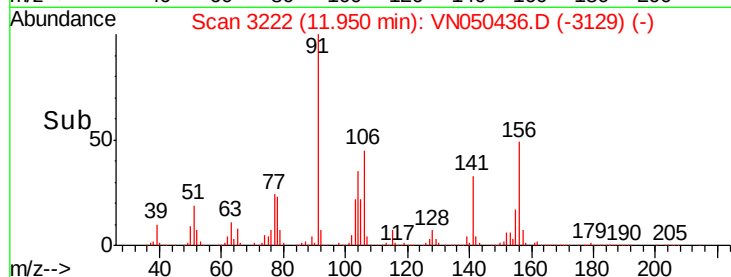
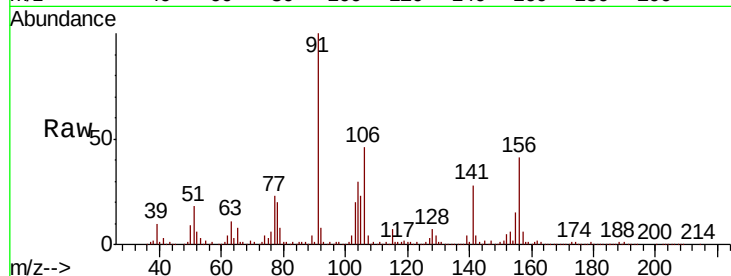
#69
o-Xylene
Concen: 21.32 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.0	107.7	323.1

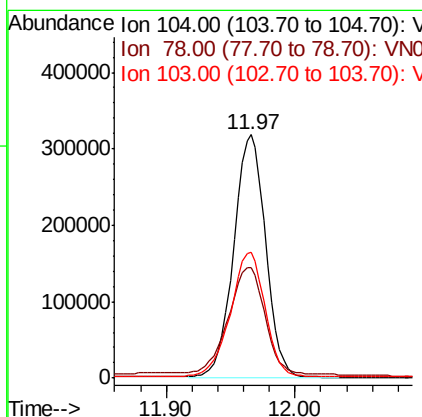
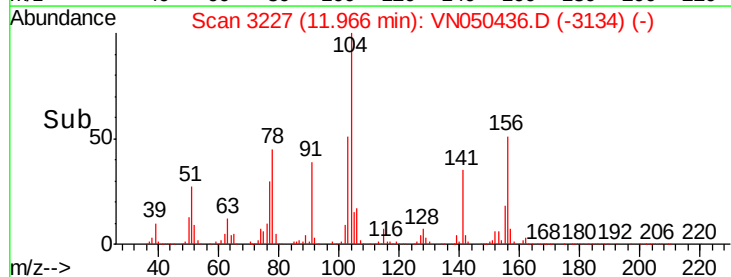
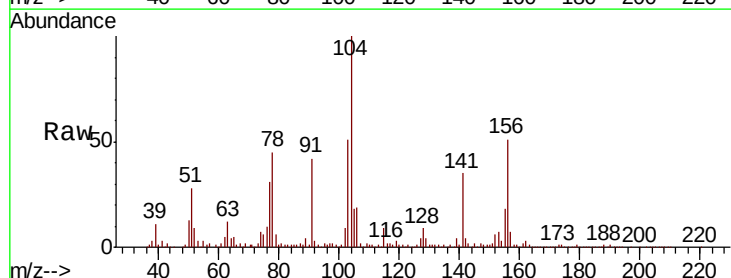
Manual Integrations
APPROVED

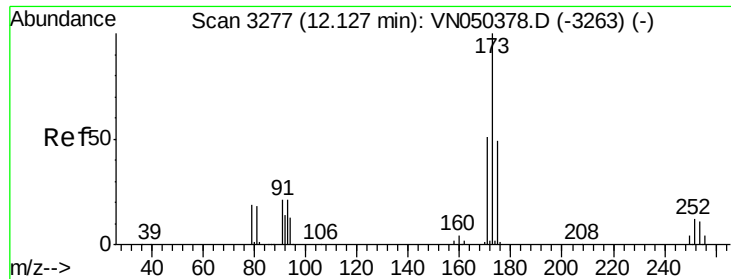
MMDadoda
8/8/2018 10:47:53 AM



#70
Styrene
Concen: 21.30 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.7	39.3	58.9
103	55.6	45.0	67.6





#71

Bromoform

Concen: 19.15 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

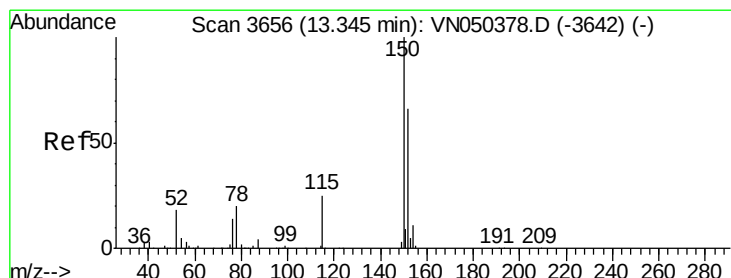
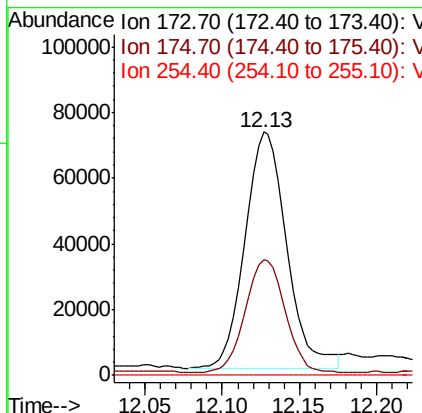
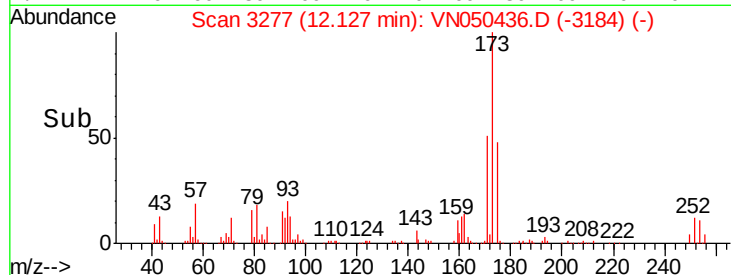
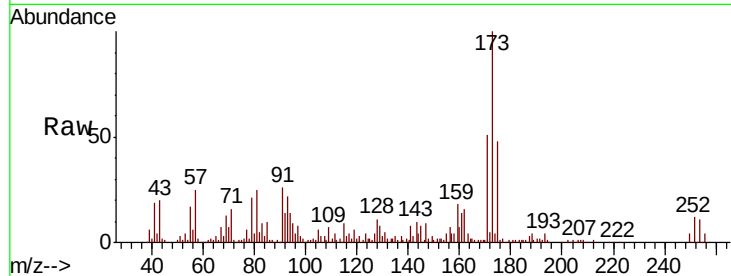
ClientSampleID :

VN0807MBSD01

Tot Ion:	173	Resp:	135160
Ion Ratio	Lower	Upper	
173	100		
175	45.9	24.1	72.2
254	0.1	0.2	0.2#

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

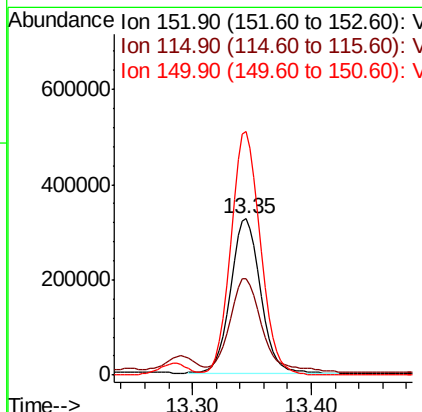
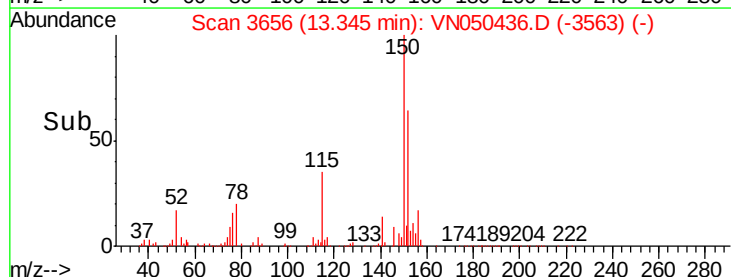
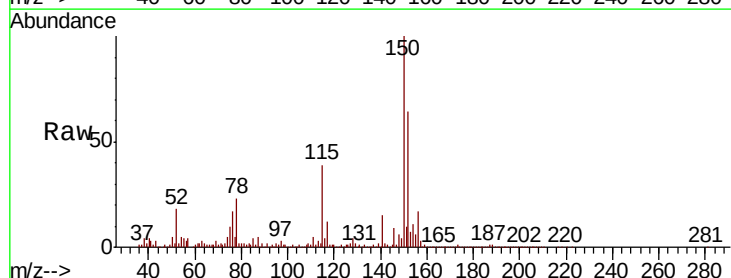
RT: 13.35 min Scan# 3656

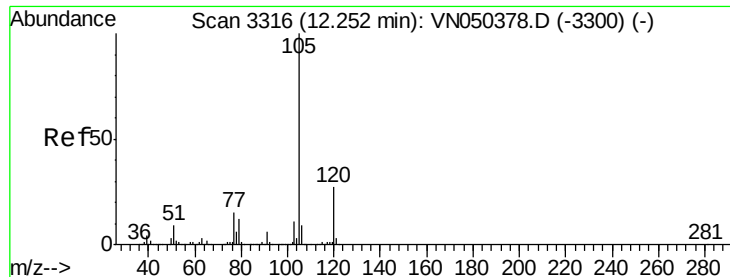
Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion:	152	Resp:	574789
Ion Ratio	Lower	Upper	
152	100		
115	65.1	27.8	83.3
150	152.7	0.0	348.6





#73

Isopropylbenzene

Concen: 20.96 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0807MBSD01

Tot Ion: 105 Resp: 904170

Ion Ratio Lower Upper

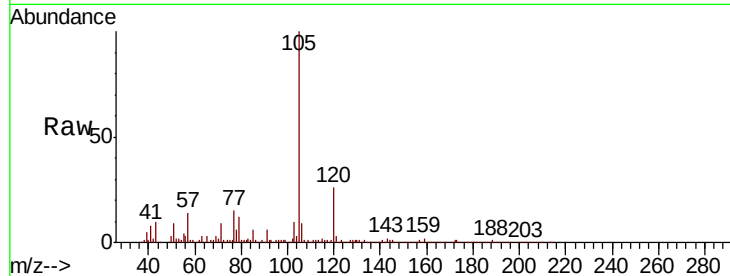
105 100

120 25.3 13.3 39.8

Manual Integrations
APPROVED

MMDadoda

8/8/2018 10:47:53 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

600000

500000

400000

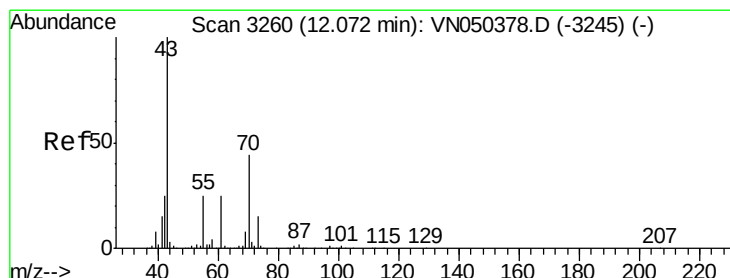
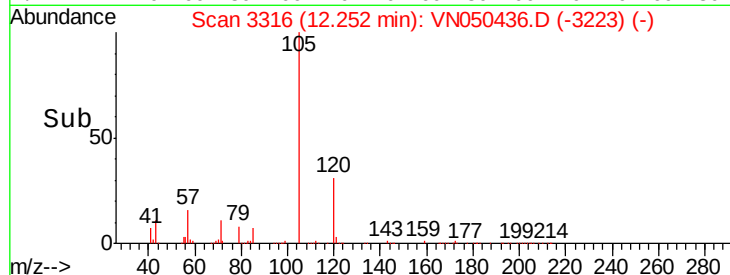
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 19.84 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion: 43 Resp: 277481

Ion Ratio Lower Upper

43 100

70 43.1 34.4 51.6

55 27.2 20.8 31.2

61 24.9 19.7 29.5

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

250000

200000

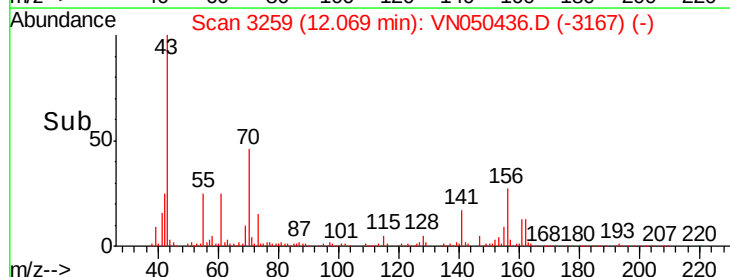
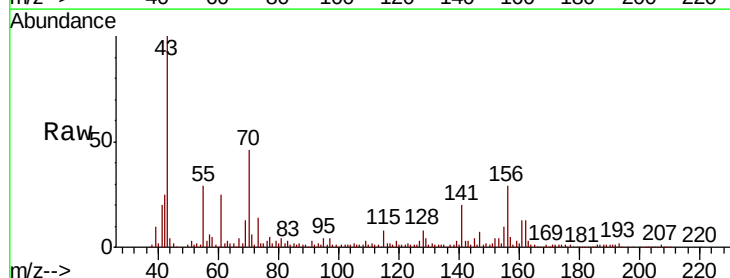
150000

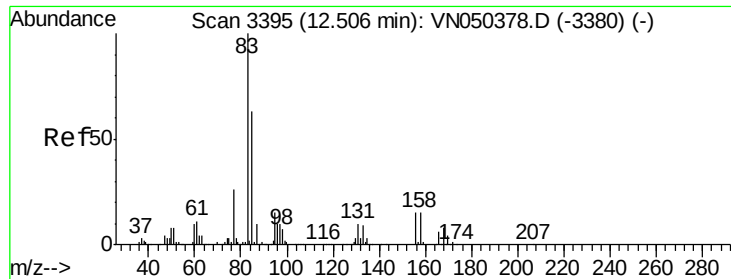
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 17.20 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

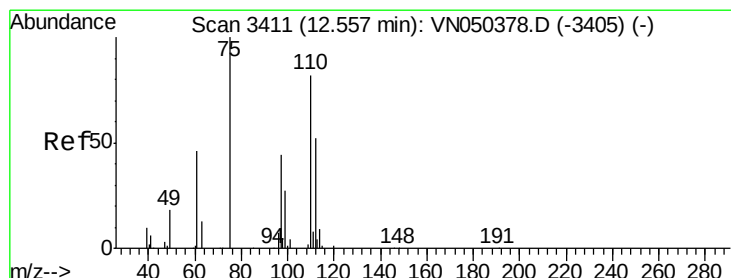
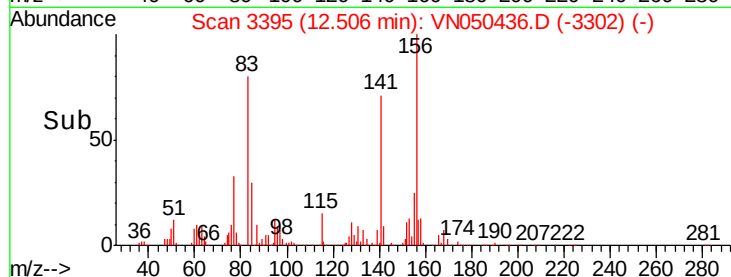
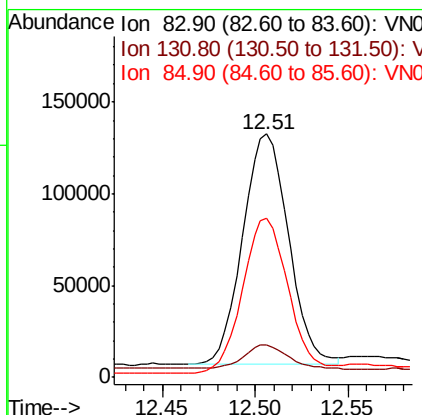
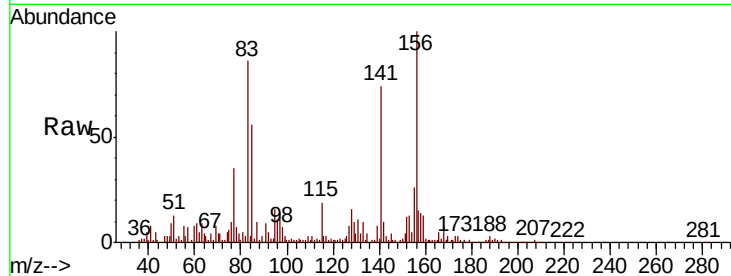
ClientSampled :

VN0807MBSD01

Tot Ion:	83	Resp:	214066
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.1	15.3
85	67.8	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#76

1,2,3-Trichloropropane

Concen: 19.82 ug/l m

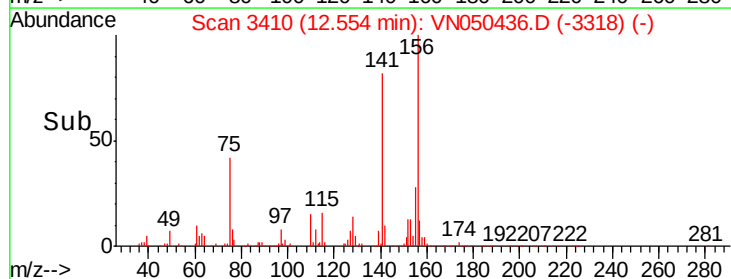
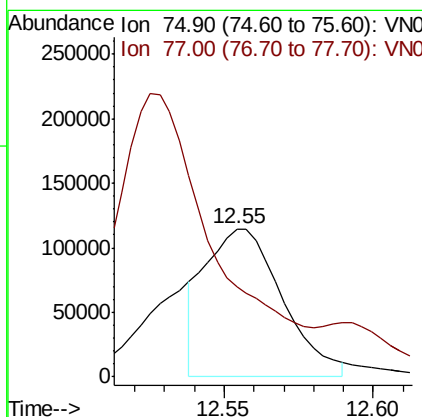
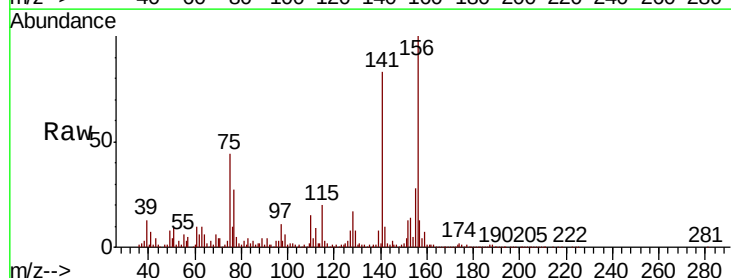
RT: 12.55 min Scan# 3410

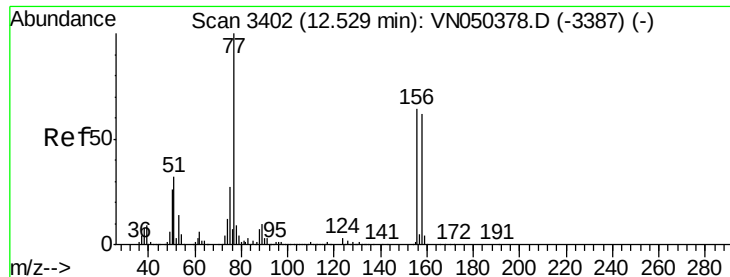
Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Tgt Ion:	75	Resp:	206160
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 157.88 ug/l

RT: 12.53 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0807MBSD01

Tot Ion:156 Resp: 1824943

Ion Ratio Lower Upper

156 100

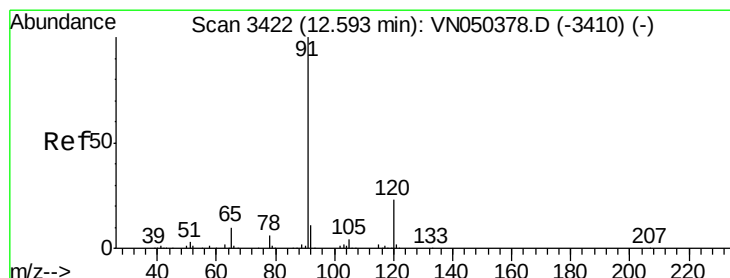
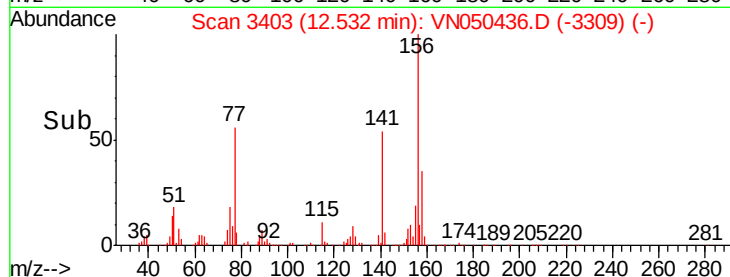
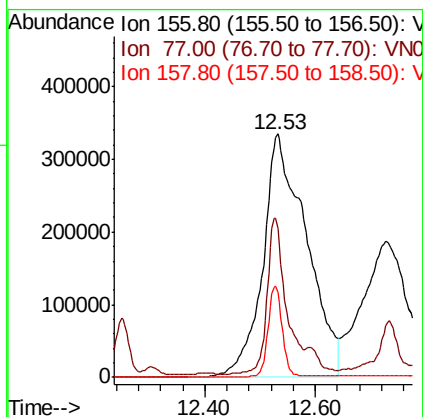
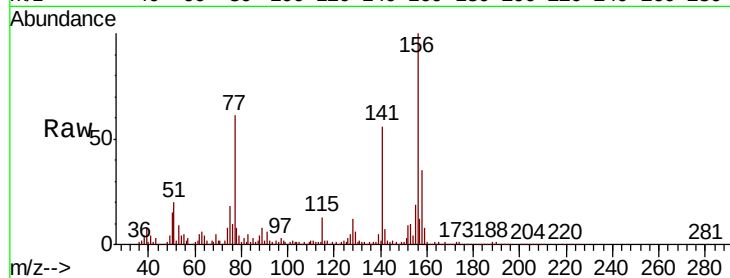
77 27.9 91.7 275.1#

158 12.1 48.9 146.6#

Manual Integrations
APPROVED

MMDadoda

8/8/2018 10:47:53 AM



#78

n-propylbenzene

Concen: 19.67 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN050436.D

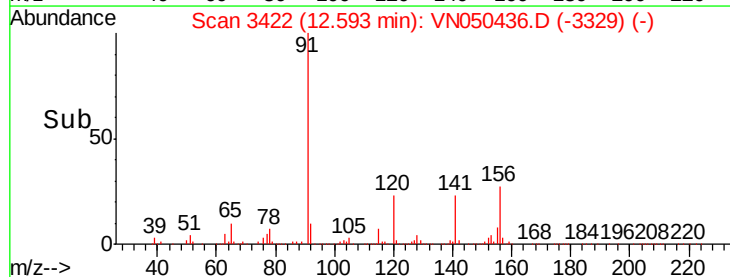
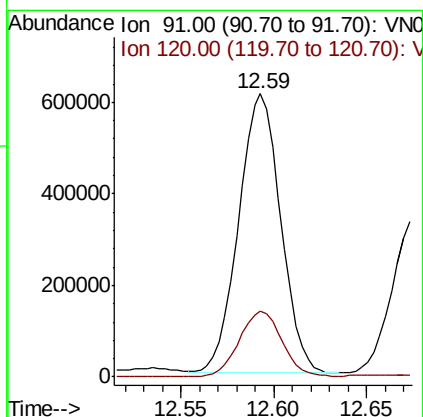
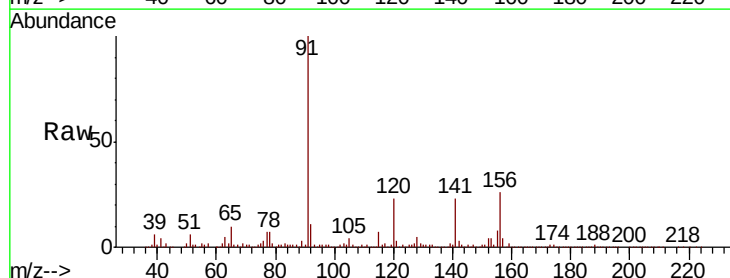
Acq: 7 Aug 2018 17:05

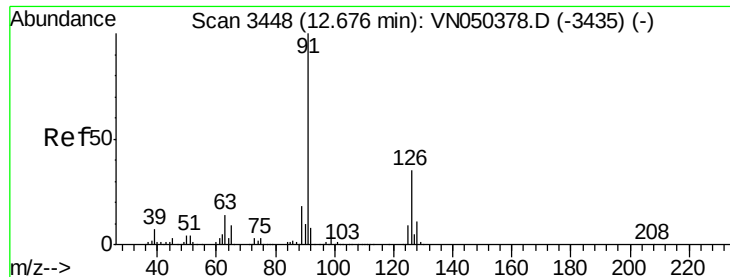
Tgt Ion: 91 Resp: 960681

Ion Ratio Lower Upper

91 100

120 23.7 11.6 34.7





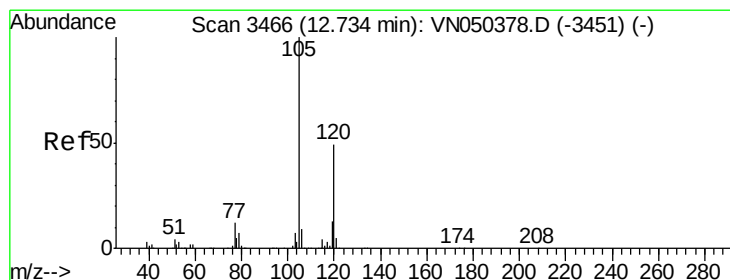
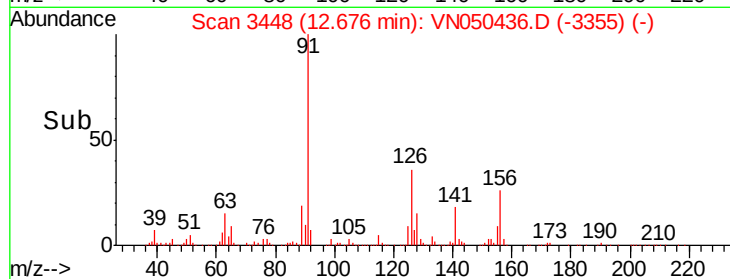
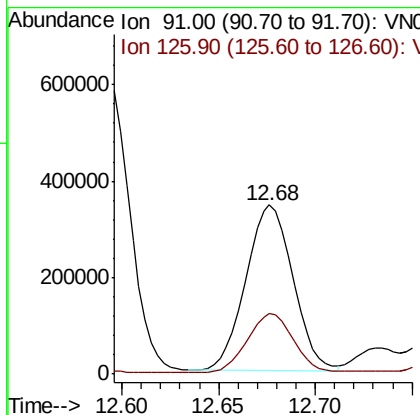
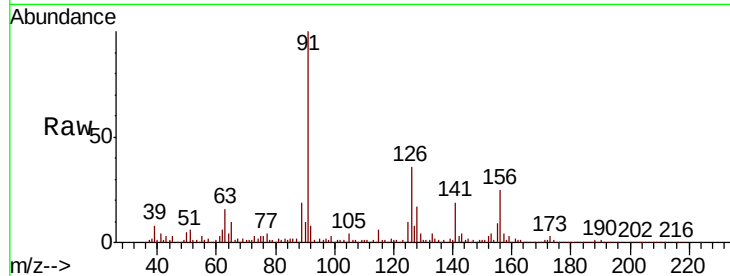
#79
 2-Chlorotoluene
 Concen: 19.30 ug/l
 RT: 12.68 min Scan# 3448
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampled :
 VN0807MBS01

Tot Ion: 91 Resp: 582098
 Ion Ratio Lower Upper
 91 100
 126 35.3 17.6 52.8

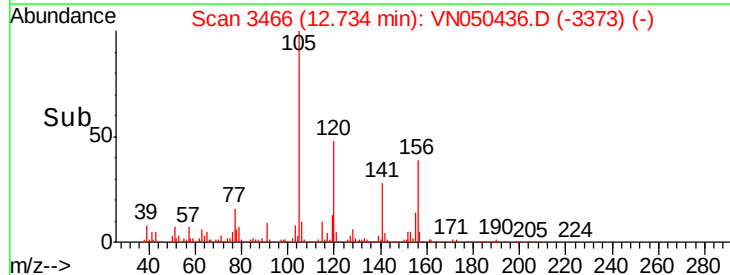
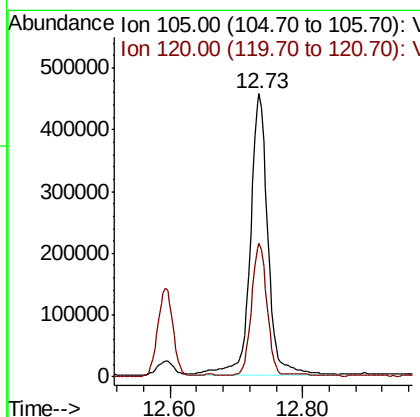
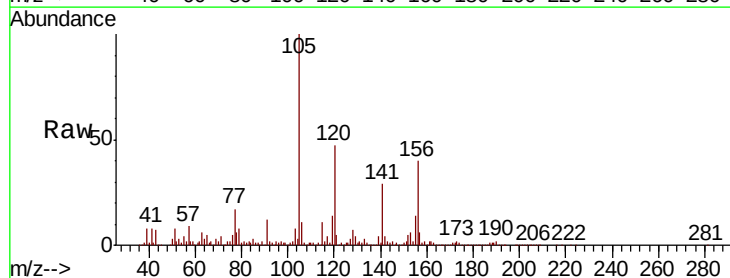
Manual Integrations
 APPROVED

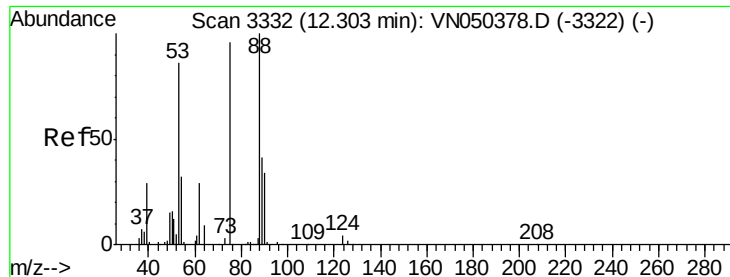
MMDadoda
 8/8/2018 10:47:53 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 23.71 ug/l
 RT: 12.73 min Scan# 3466
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion: 105 Resp: 830286
 Ion Ratio Lower Upper
 105 100
 120 40.5 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 17.78 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0807MBSD01

Tot Ion: 75 Resp: 52652

Ion Ratio Lower Upper

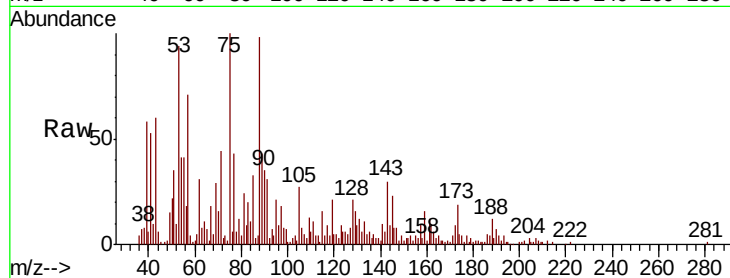
75 100

53 90.8 73.5 110.3

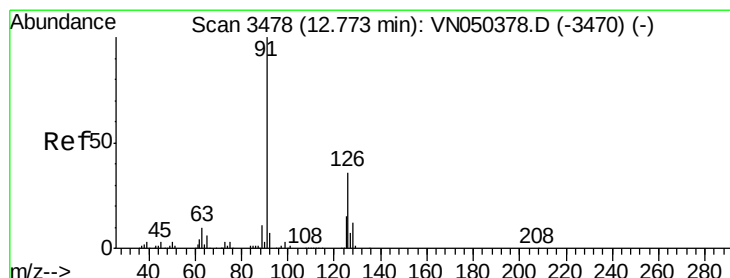
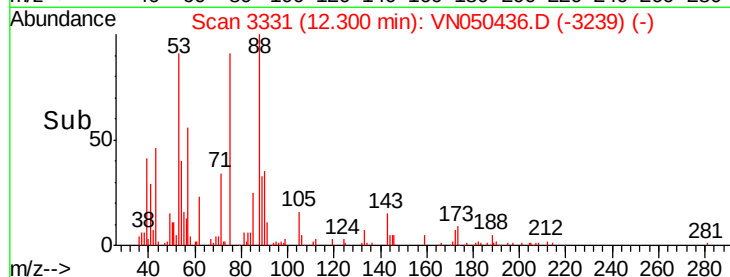
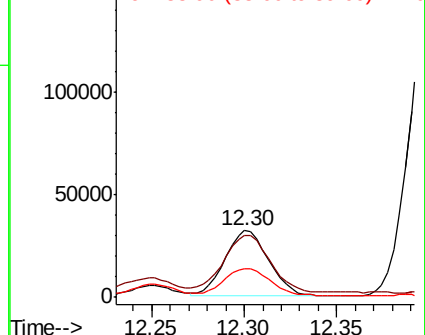
89 44.4 36.0 54.0

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 19.73 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. -0.00 min

Lab File: VN050436.D

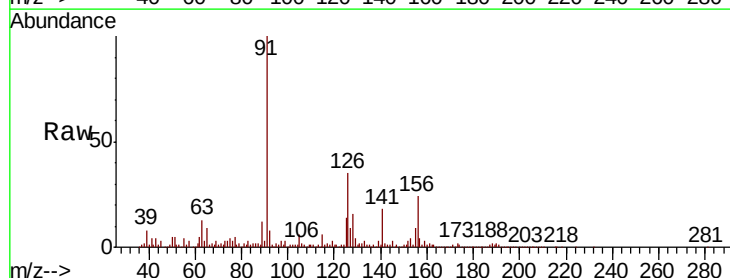
Acq: 7 Aug 2018 17:05

Tgt Ion: 91 Resp: 593466

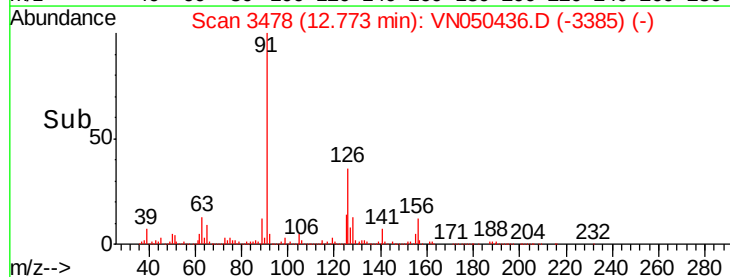
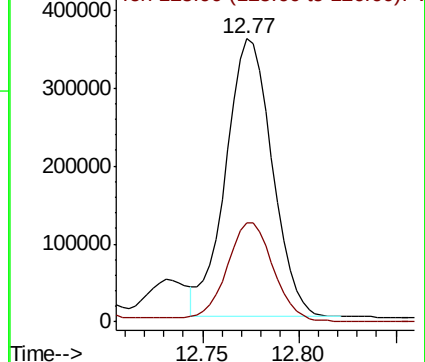
Ion Ratio Lower Upper

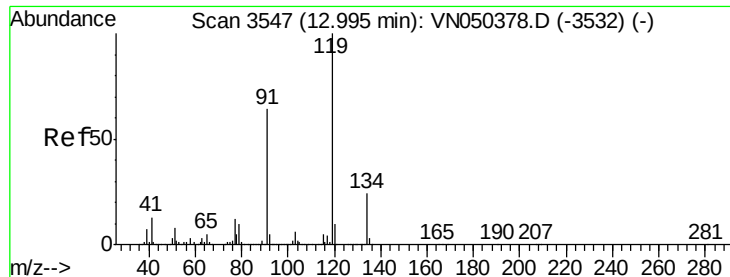
91 100

126 35.7 17.0 51.0



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 125.90 (125.60 to 126.60): V





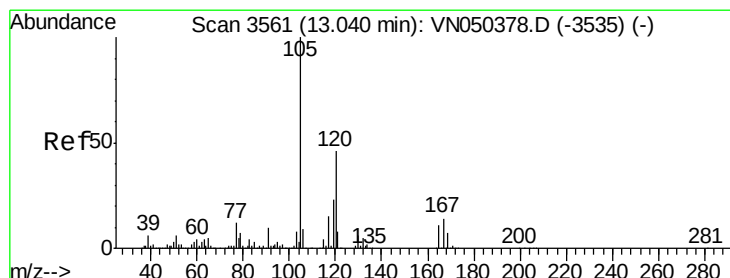
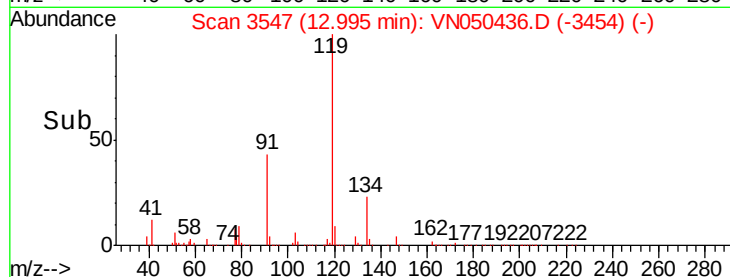
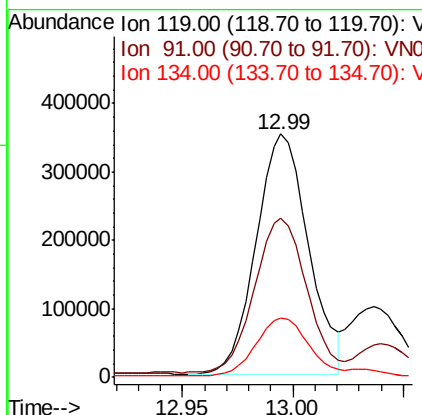
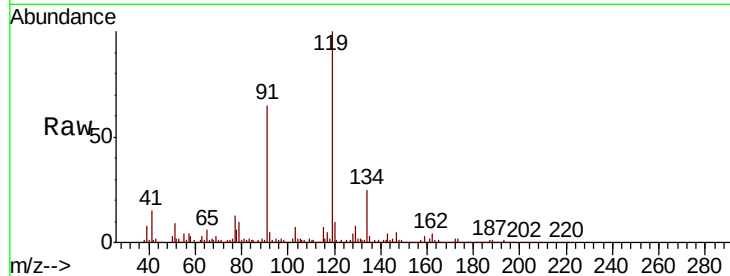
#83
 tert-Butylbenzene
 Concen: 18.91 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.3
134	24.1	13.2	39.5

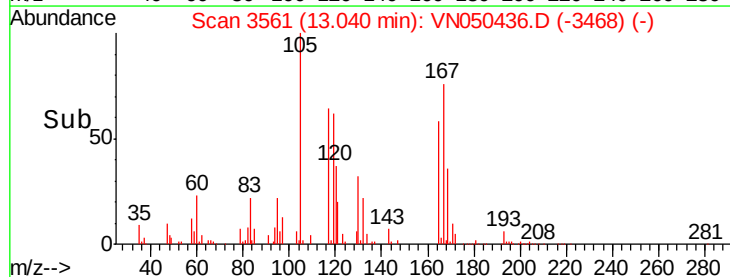
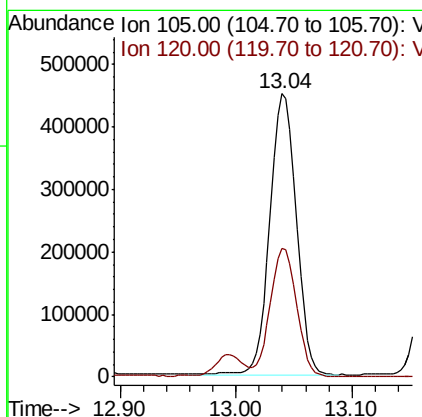
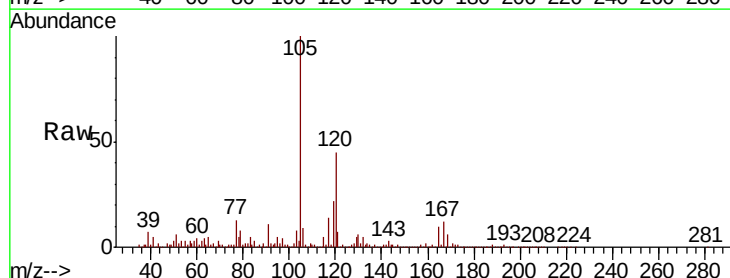
Manual Integrations
 APPROVED

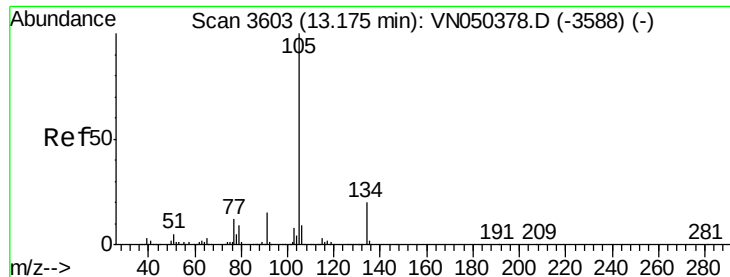
MMDadoda
 8/8/2018 10:47:53 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.91 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.7





#85

sec-Butylbenzene

Concen: 18.55 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0807MBSD01

Tot Ion:105 Resp: 755539

Ion Ratio Lower Upper

105 100

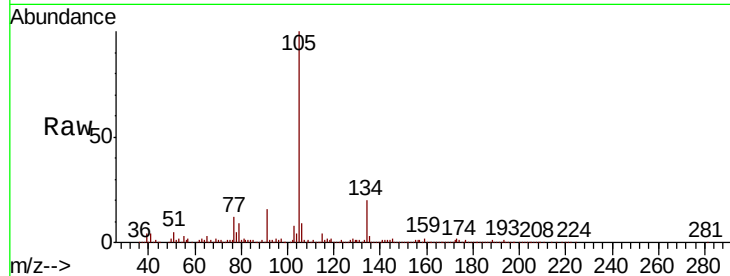
134 20.5 10.1 30.1

Manual Integrations

APPROVED

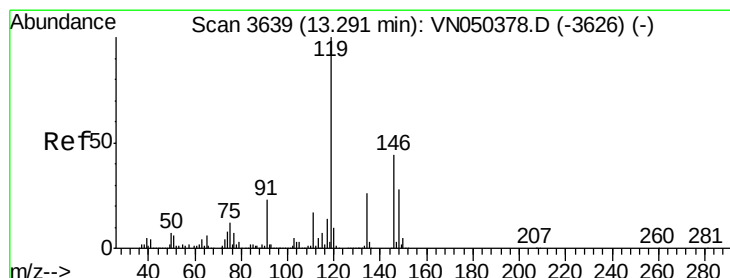
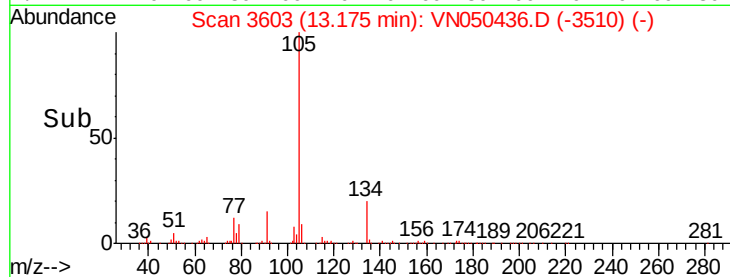
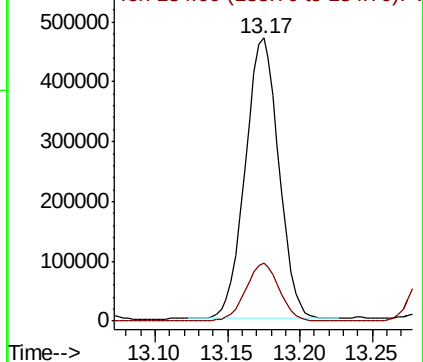
MMDadoda

8/8/2018 10:47:53 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.00 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

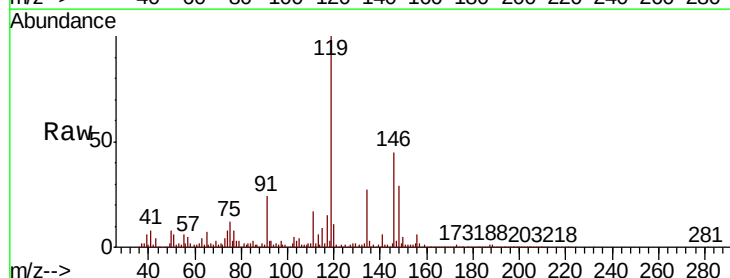
Tgt Ion:119 Resp: 663134

Ion Ratio Lower Upper

119 100

134 27.3 13.3 39.8

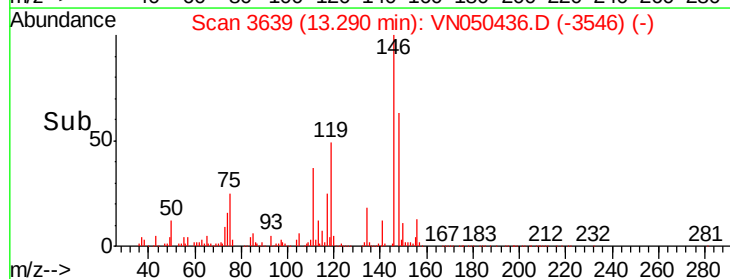
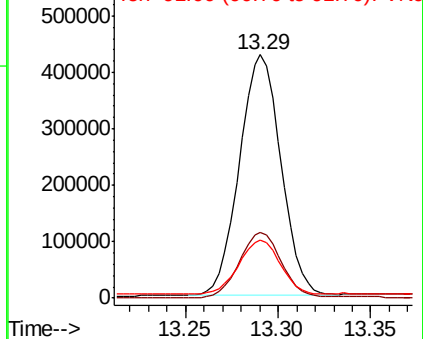
91 22.3 11.4 34.2

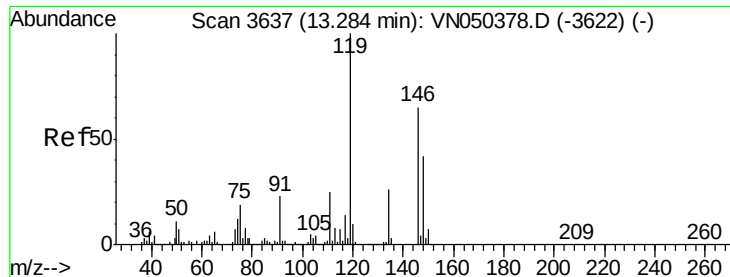


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





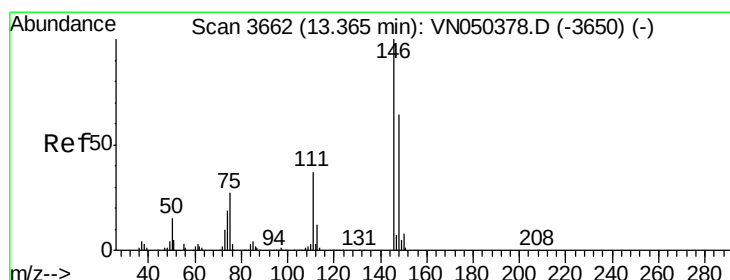
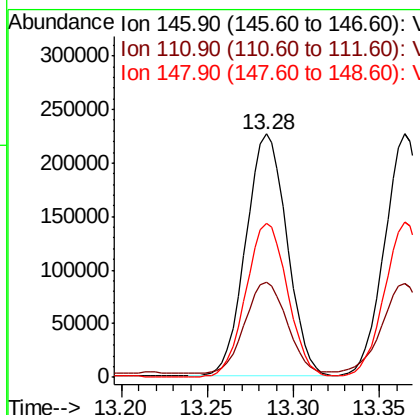
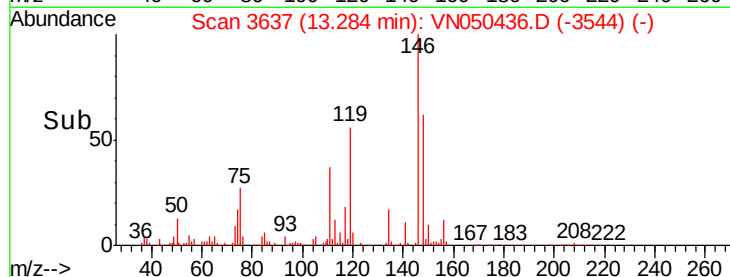
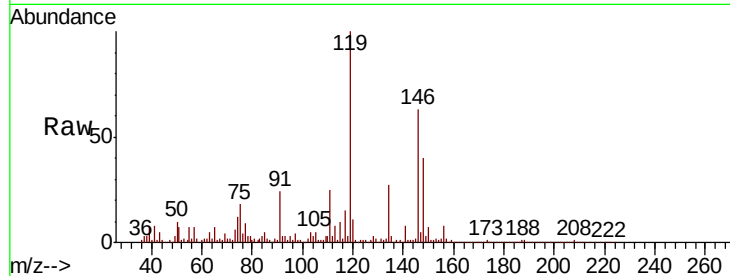
#87
 1,3-Dichlorobenzene
 Concen: 18.16 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.8	56.4
148	64.0	31.9	95.9

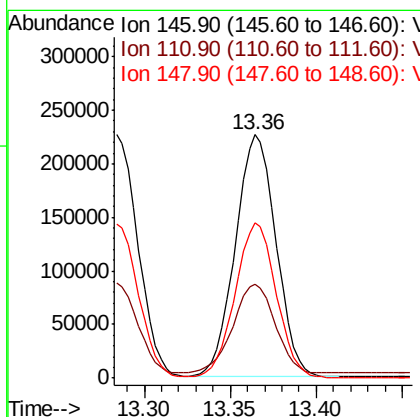
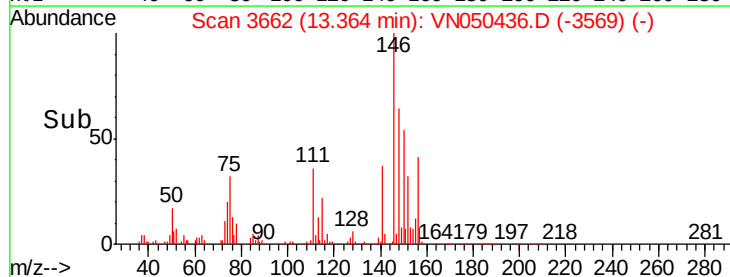
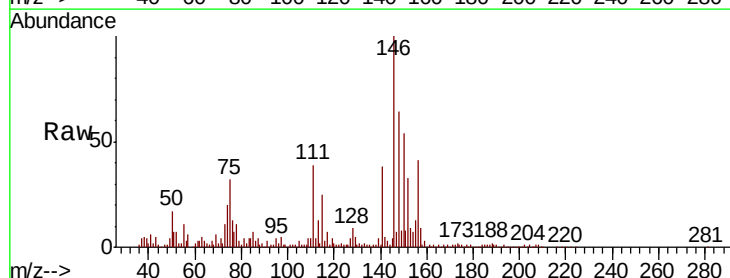
Manual Integrations
 APPROVED

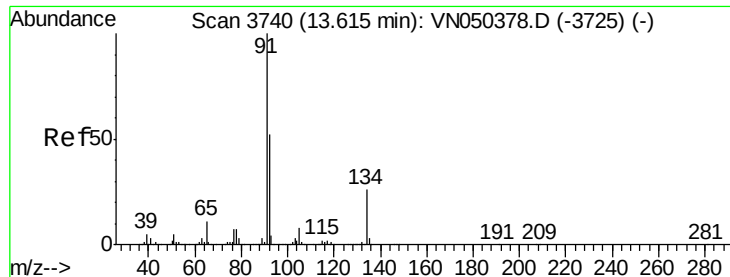
MMDadoda
 8/8/2018 10:47:53 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.05 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.3	54.9
148	64.2	31.9	95.9





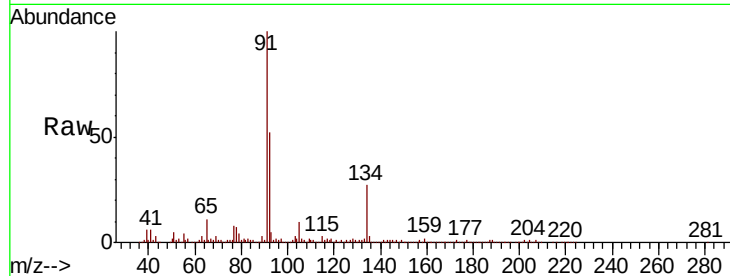
#89
n-Butylbenzene
Concen: 18.47 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleID :
VN0807MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	25.8	77.4
134	27.6	12.8	38.4

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM

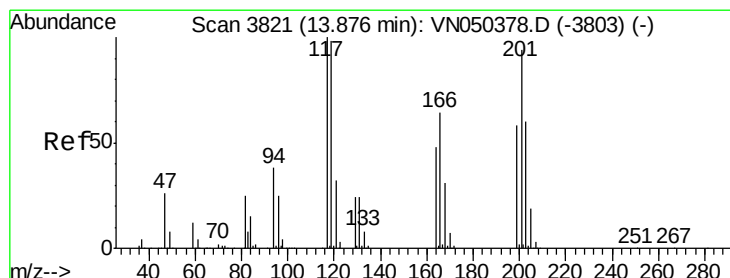
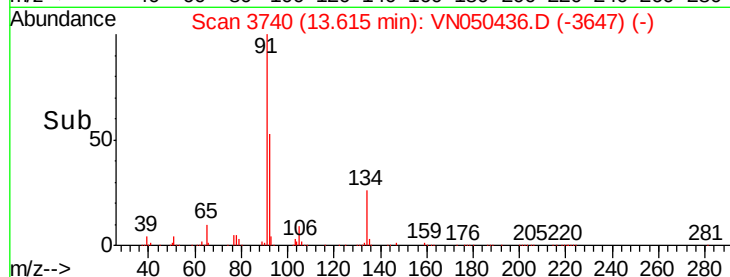
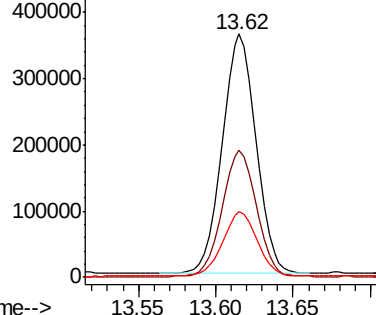


Abundance

Ion 91.00 (90.70 to 91.70): VN050378.D (-3725) (-)

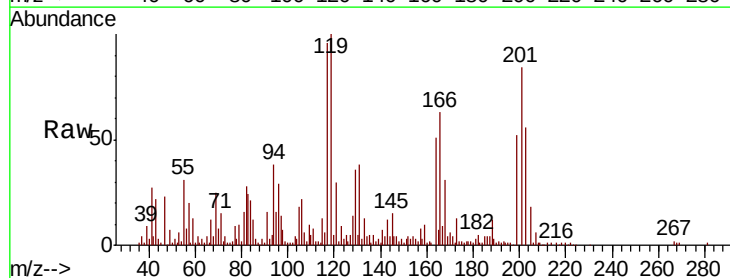
Ion 92.00 (91.70 to 92.70): VN050378.D (-3725) (-)

Ion 134.00 (133.70 to 134.70): VN050378.D (-3725) (-)



#90
Hexachloroethane
Concen: 15.65 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

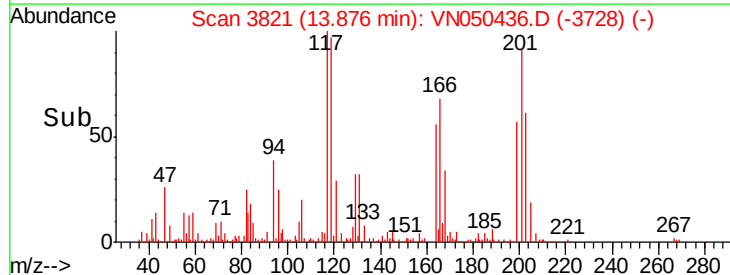
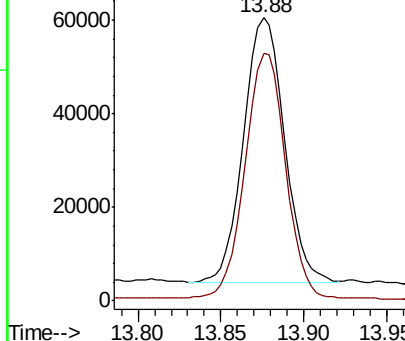
Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.5	45.6	136.8

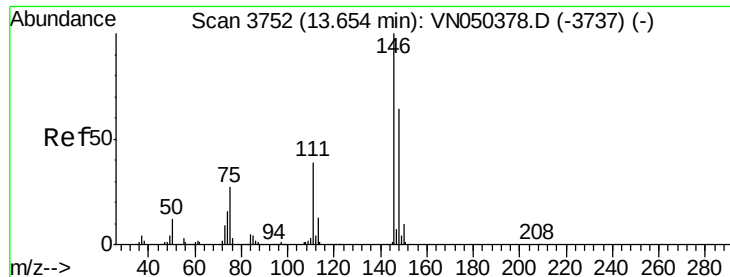


Abundance

Ion 116.80 (116.50 to 117.50): VN050378.D (-3803) (-)

Ion 200.70 (200.40 to 201.40): VN050378.D (-3803) (-)





#91

1,2-Dichlorobenzene

Concen: 18.17 ug/l

RT: 13.66 min Scan# 3753

Delta R.T. 0.00 min

Lab File: VN050436.D

Acq: 7 Aug 2018 17:05

Instrument :

MSVOA_N

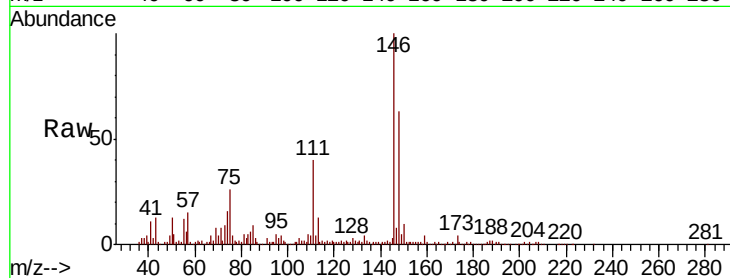
ClientSampleId :

VN0807MBSD01

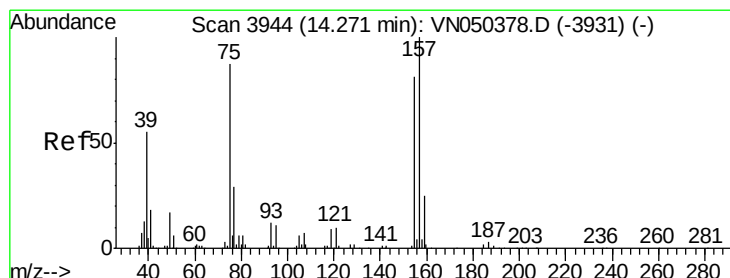
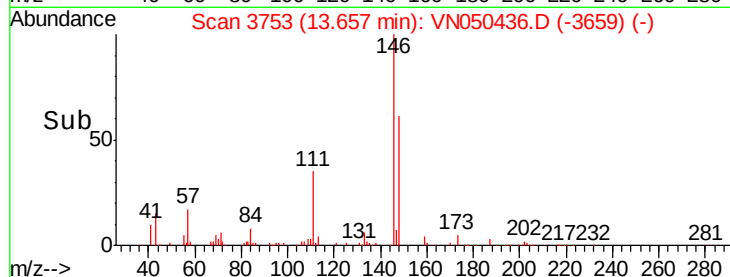
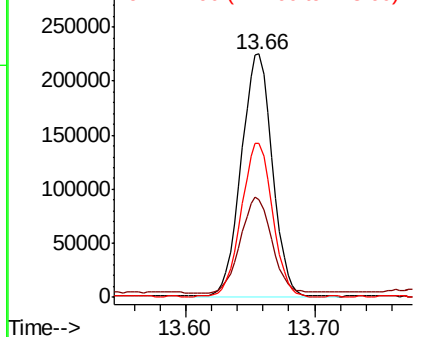
Tot Ion:	146	Resp:	374942
Ion Ratio	Lower	Upper	
146	100		
111	40.9	19.6	58.7
148	63.6	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.28 ug/l

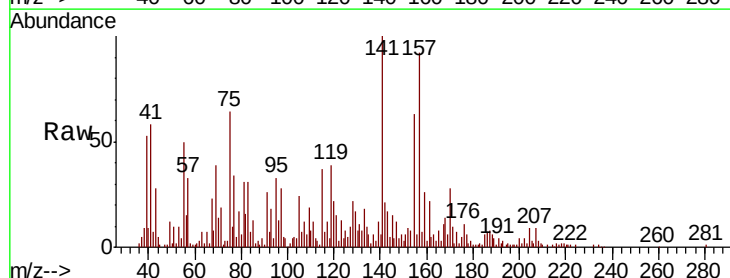
RT: 14.27 min Scan# 3944

Delta R.T. -0.00 min

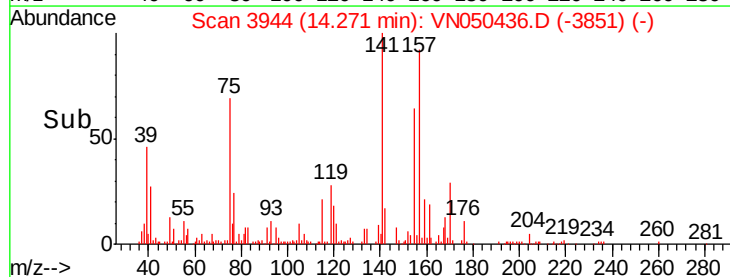
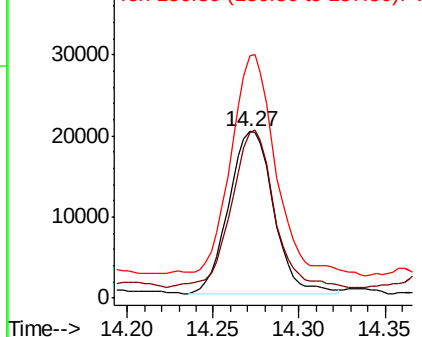
Lab File: VN050436.D

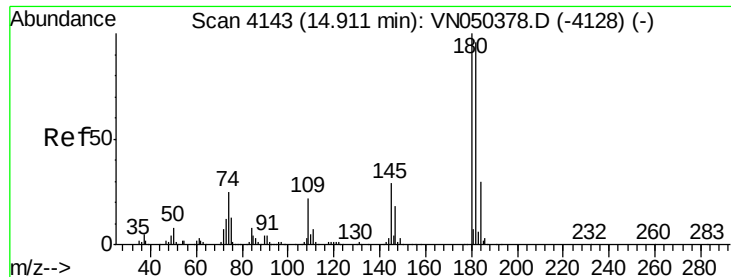
Acq: 7 Aug 2018 17:05

Tgt Ion:	75	Resp:	36530
Ion Ratio	Lower	Upper	
75	100		
155	91.6	44.8	134.4
157	135.2	57.2	171.6



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





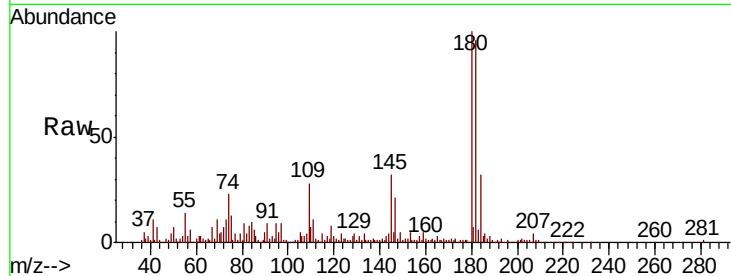
#93
 1,2,4-Trichlorobenzene
 Concen: 20.61 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Instrument :
 MSVOA_N
 ClientSampled :
 VN0807MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	216639		
182	95.7	46.7	140.1	
145	30.8	13.8	41.4	

Manual Integrations
 APPROVED

MMDadoda
 8/8/2018 10:47:53 AM

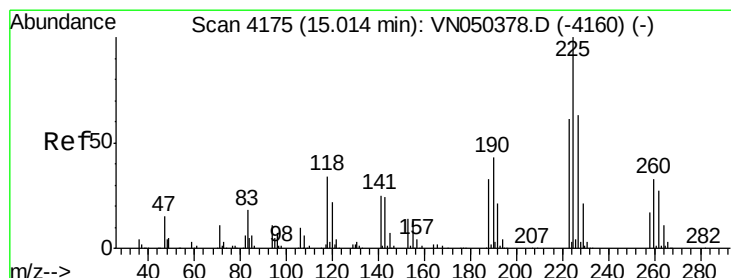
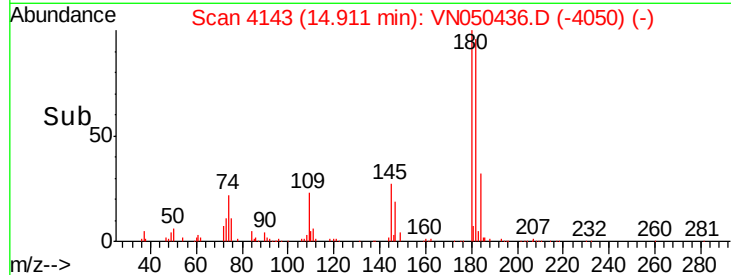
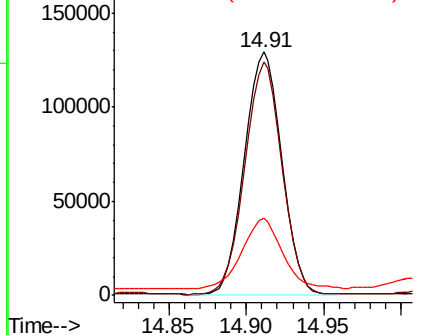


Abundance

Ion 179.80 (179.50 to 180.50): V

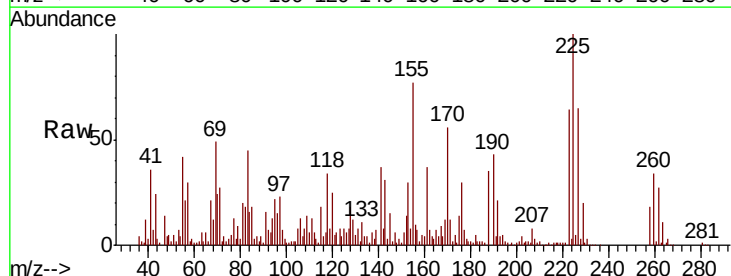
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 17.03 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050436.D
 Acq: 7 Aug 2018 17:05

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	104020		
223	63.0	31.4	94.2	
227	64.4	32.1	96.5	

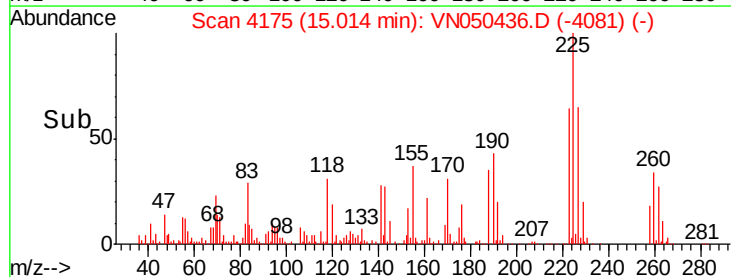
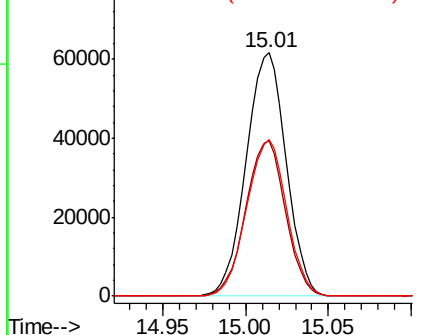


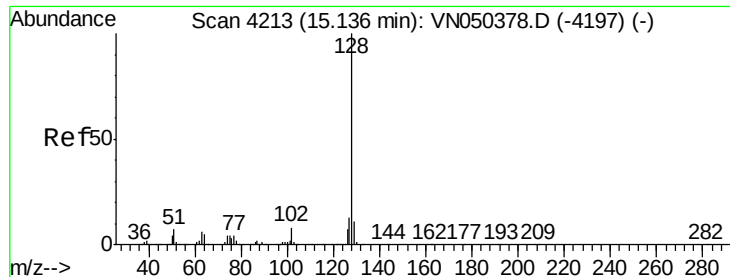
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





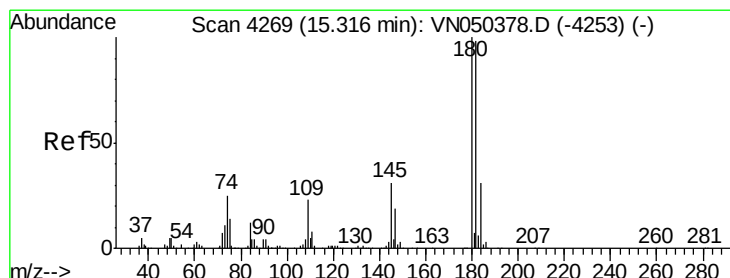
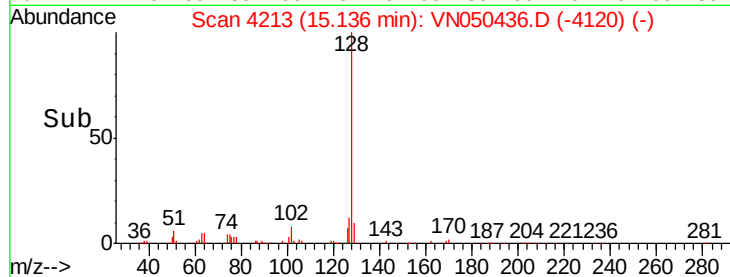
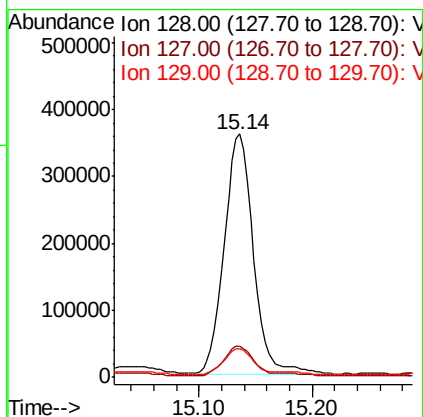
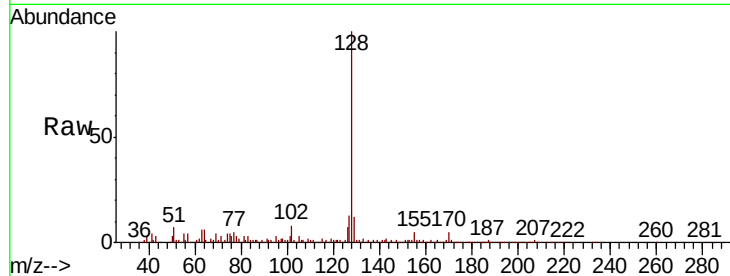
#95
Naphthalene
Concen: 25.10 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0807MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		644397		
127	12.8	10.4	15.6		
129	11.1	8.8	13.2		

Manual Integrations
APPROVED

MMDadoda
8/8/2018 10:47:53 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.90 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN050436.D
Acq: 7 Aug 2018 17:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		211528		
182	96.1	48.1	144.4		
145	41.0	15.3	45.9		

