

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050725.D
 Acq On : 17 Aug 2018 13:09
 Operator : MD\SY
 Sample : VN0817WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:53:04 AM

Quant Time: Aug 18 00:12:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	635448	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	924939	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	827660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	399350	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	399836	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
35) Dibromofluoromethane	7.59	113	370681	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
50) Toluene-d8	10.09	98	1382534	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
62) 4-Bromofluorobenzene	12.40	95	435375	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	126593	17.67	ug/l	100
3) Chloromethane	2.06	50	170350	19.21	ug/l	98
4) Vinyl Chloride	2.18	62	173202	18.20	ug/l	99
5) Bromomethane	2.56	94	101599	18.55	ug/l	93
6) Chloroethane	2.70	64	106768	19.21	ug/l	97
7) Trichlorofluoromethane	3.01	101	228701	18.31	ug/l	99
8) Diethyl Ether	3.41	74	80031	19.27	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	139388	18.46	ug/l	99
10) Methyl Iodide	3.95	142	88446	21.14	ug/l	98
11) Tert butyl alcohol	4.79	59	45674	104.43	ug/l	100
12) 1,1-Dichloroethene	3.73	96	127526	18.50	ug/l	98
13) Acrolein	3.61	56	10272	53.77	ug/l	93
14) Allyl chloride	4.33	41	201682	18.80	ug/l	99
15) Acrylonitrile	4.99	53	236559	98.48	ug/l	99
16) Acetone	3.82	43	221723	110.05	ug/l	98
17) Carbon Disulfide	4.05	76	384380	17.72	ug/l	99
18) Methyl Acetate	4.33	43	126896	22.00	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	345250	19.67	ug/l	97
20) Methylene Chloride	4.55	84	157625	19.94	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	141069	18.87	ug/l	99
22) Diisopropyl ether	5.96	45	450404	20.48	ug/l	97
23) Vinyl Acetate	5.90	43	1420209	98.73	ug/l	100
24) 1,1-Dichloroethane	5.85	63	269657	18.95	ug/l	99
25) 2-Butanone	6.84	43	334066	101.72	ug/l	99
26) 2,2-Dichloropropane	6.83	77	204266	21.45	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	157857	18.96	ug/l	98
28) Bromochloromethane	7.20	49	119748	18.49	ug/l	99
29) Tetrahydrofuran	7.22	42	175602	102.41	ug/l	99
30) Chloroform	7.37	83	270870	18.79	ug/l	99
31) Cyclohexane	7.66	56	227546	18.52	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	227858	18.77	ug/l	99
36) 1,1-Dichloropropene	7.80	75	200774	19.50	ug/l	99
37) Ethyl Acetate	6.93	43	121231	20.83	ug/l	98
38) Carbon Tetrachloride	7.78	117	204227	19.12	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	203253	19.07	ug/l	98
40) Benzene	8.04	78	620299	19.80	ug/l	100
41) Methacrylonitrile	7.18	41	68305	21.71	ug/l	97
42) 1,2-Dichloroethane	8.13	62	189330	19.72	ug/l	99
43) Isopropyl Acetate	8.17	43	212675	20.05	ug/l #	88
44) Trichloroethene	8.84	130	161466	19.24	ug/l	100
45) 1,2-Dichloropropane	9.12	63	165879	19.89	ug/l	96
46) Dibromomethane	9.21	93	96229	19.54	ug/l	97
47) Bromodichloromethane	9.40	83	204234	19.41	ug/l	97
48) Methyl methacrylate	9.20	41	104367	19.56	ug/l	99
49) 1,4-Dioxane	9.20	88	28616	407.01	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	746999	104.14	ug/l	99
52) Toluene	10.16	92	375774	20.09	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	191850	19.57	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	228831	20.35	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	137442	19.67	ug/l	99
56) Ethyl methacrylate	10.43	69	160602	19.24	ug/l	99
57) 1,3-Dichloropropane	10.71	76	229661	20.05	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	374339	94.45	ug/l	100
59) 2-Hexanone	10.75	43	479563	103.58	ug/l	99
60) Dibromochloromethane	10.90	129	154072	19.98	ug/l	98
61) 1,2-Dibromoethane	11.01	107	132114	19.86	ug/l	100
64) Tetrachloroethene	10.63	164	150256	19.55	ug/l	99
65) Chlorobenzene	11.44	112	402241	19.53	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	152753	19.78	ug/l	100
67) Ethyl Benzene	11.51	91	658253	19.79	ug/l	98
68) m/p-Xylenes	11.62	106	517604	40.69	ug/l	99
69) o-Xylene	11.95	106	242237	19.97	ug/l	100
70) Styrene	11.97	104	393708	18.85	ug/l	100
71) Bromoform	12.13	173	100700	19.67	ug/l #	100
73) Isopropylbenzene	12.25	105	648242	20.78	ug/l	99
74) N-amyl acetate	12.07	43	163932	20.19	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	169021	22.03	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	136006m	20.47	ug/l	
77) Bromobenzene	12.53	156	167511	19.77	ug/l	99
78) n-propylbenzene	12.59	91	729252	20.96	ug/l	99
79) 2-Chlorotoluene	12.68	91	448806	20.69	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	530373	21.23	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	38922	21.67	ug/l	98
82) 4-Chlorotoluene	12.77	91	443394	20.68	ug/l	100
83) tert-Butylbenzene	12.99	119	446676	20.60	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	534632	21.32	ug/l	99
85) sec-Butylbenzene	13.17	105	594788	20.99	ug/l	100
86) p-Isopropyltoluene	13.29	119	504449	21.01	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	286486	19.87	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	273779	19.13	ug/l	99
89) n-Butylbenzene	13.62	91	382165	19.71	ug/l	98
90) Hexachloroethane	13.88	117	94602	19.59	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	279690	19.88	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22493	20.20	ug/l	99

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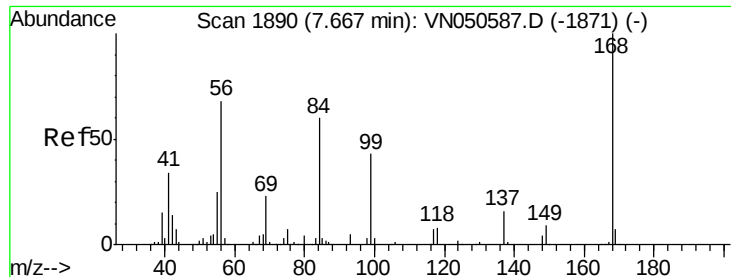
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	115970	17.88	ug/l	99
94) Hexachlorobutadiene	15.01	225	85771	19.88	ug/l	98
95) Naphthalene	15.14	128	221699	17.18	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	117323	18.66	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion:168 Resp: 635448

Ion Ratio Lower Upper

168 100

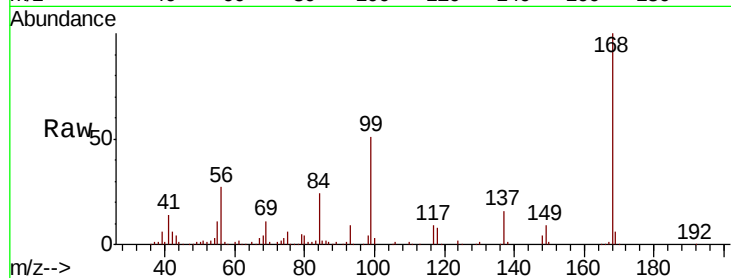
99 50.8 40.8 61.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

150000

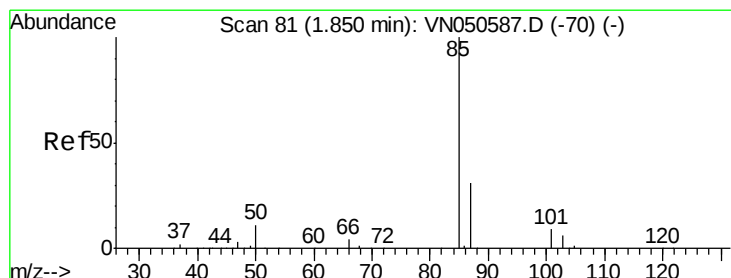
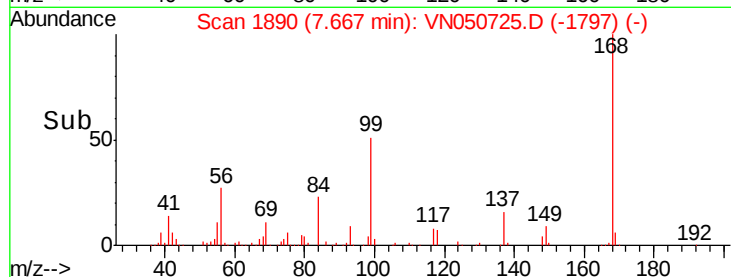
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 17.67 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050725.D

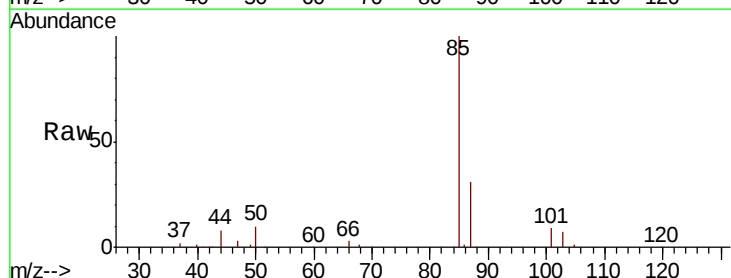
Acq: 17 Aug 2018 13:09

Tgt Ion: 85 Resp: 126593

Ion Ratio Lower Upper

85 100

87 31.5 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VN050587.D (-70) (-)

Ion 86.90 (86.60 to 87.60): VN050587.D (-70) (-)

1.85

100000

80000

60000

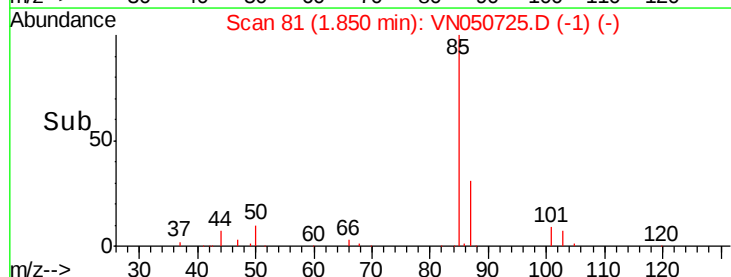
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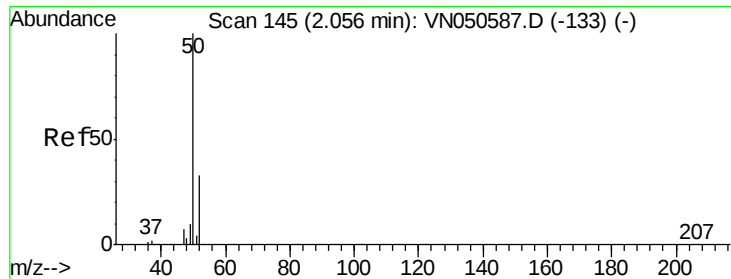
20000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 19.21 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 50 Resp: 170350

Ion Ratio Lower Upper

50 100

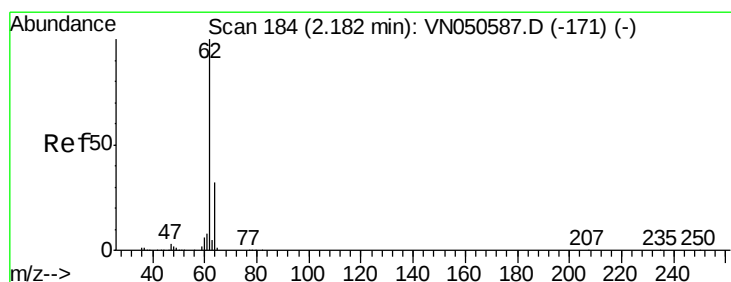
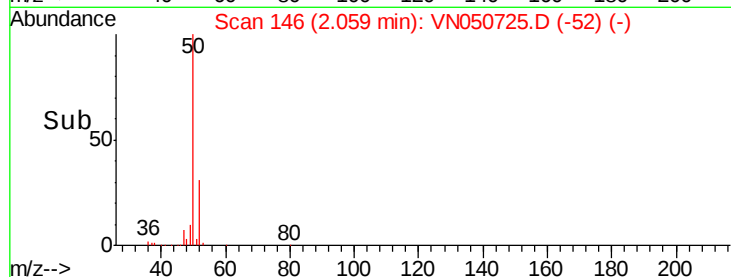
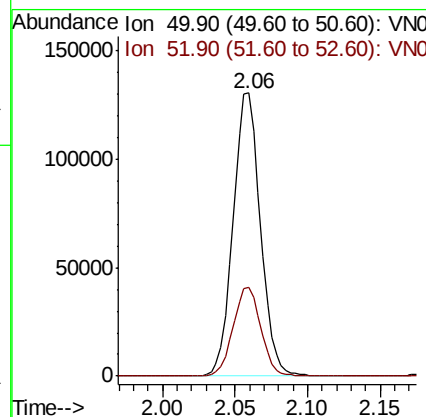
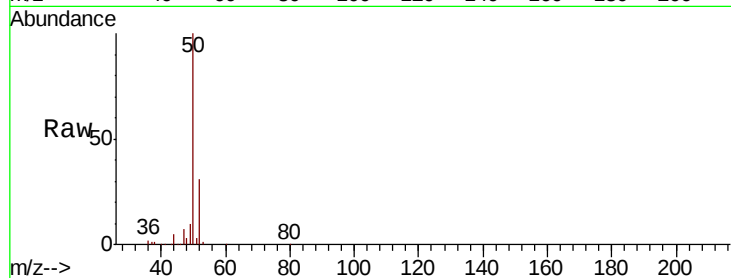
52 31.4 26.0 39.0

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#4

Vinyl Chloride

Concen: 18.20 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050725.D

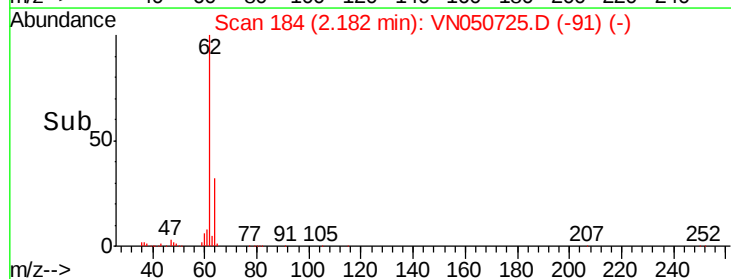
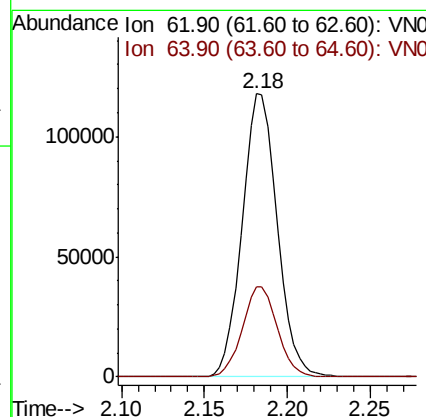
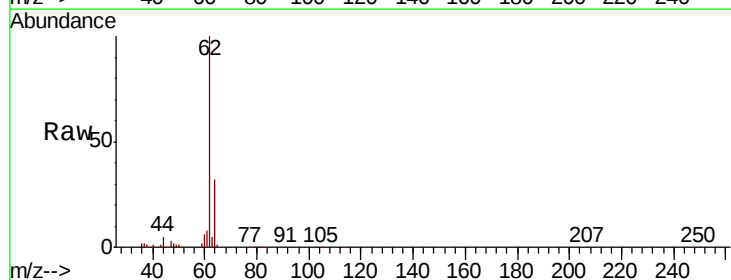
Acq: 17 Aug 2018 13:09

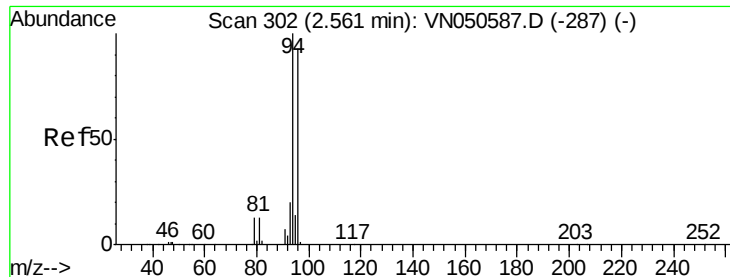
Tgt Ion: 62 Resp: 173202

Ion Ratio Lower Upper

62 100

64 32.0 25.2 37.8





#5

Bromomethane

Concen: 18.55 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

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ClientSampleId :

VN0817WBSD02

Tot Ion: 94 Resp: 101599

Ion Ratio Lower Upper

94 100

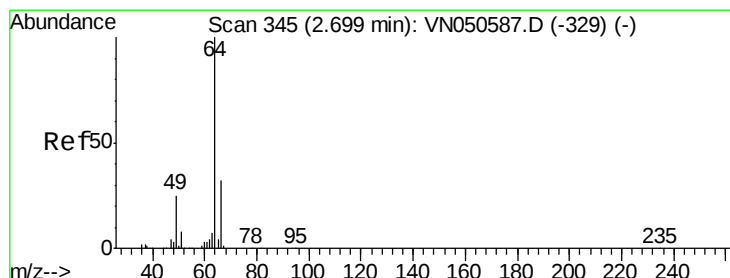
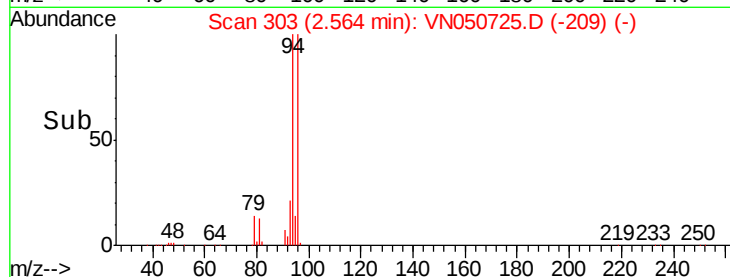
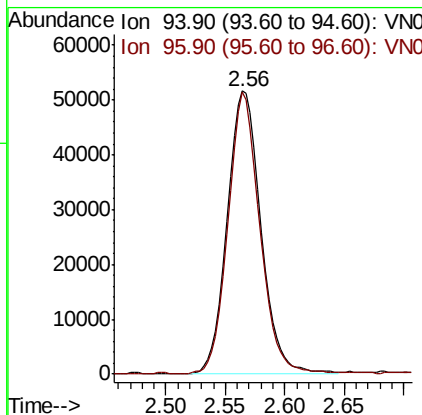
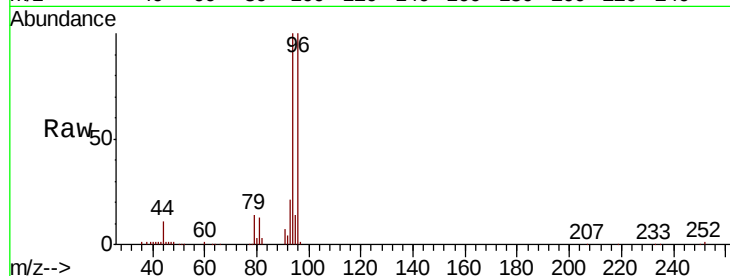
96 99.4 74.0 111.0

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#6

Chloroethane

Concen: 19.21 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050725.D

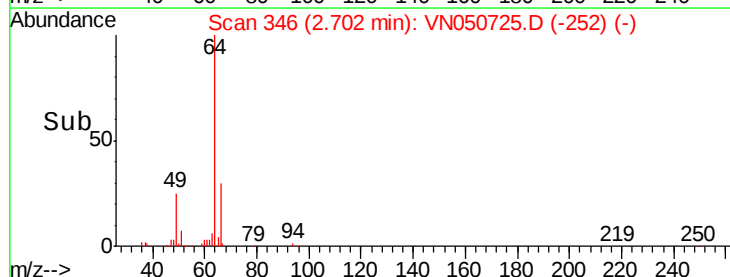
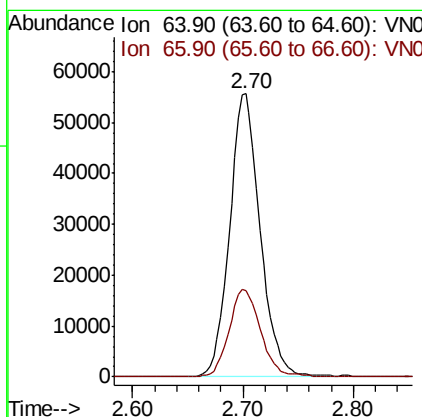
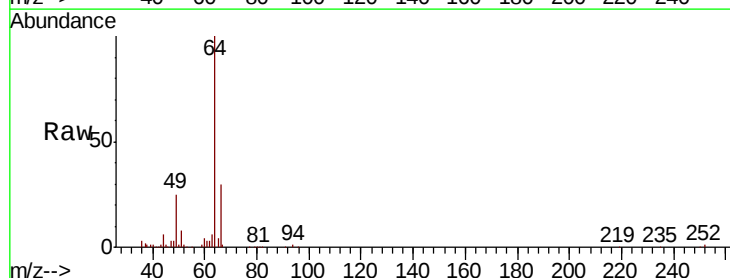
Acq: 17 Aug 2018 13:09

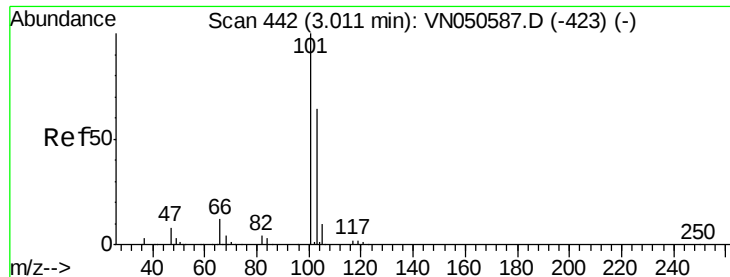
Tgt Ion: 64 Resp: 106768

Ion Ratio Lower Upper

64 100

66 30.4 25.7 38.5





#7

Trichlorofluoromethane

Concen: 18.31 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

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Tot Ion:101 Resp: 228701

Ion Ratio Lower Upper

101 100

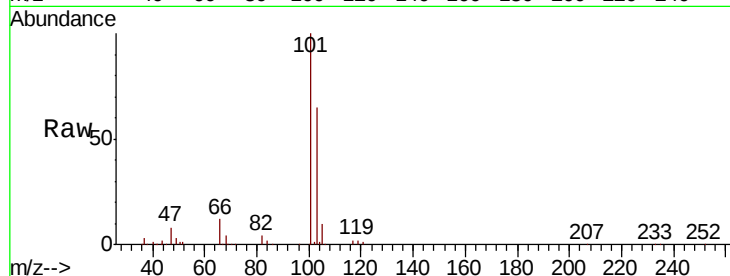
103 65.3 51.4 77.0

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8/20/2018 10:53:04 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.01

100000

80000

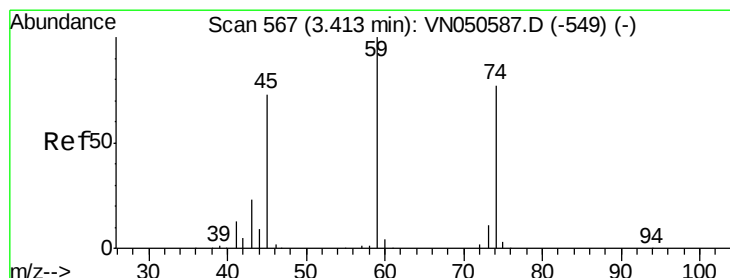
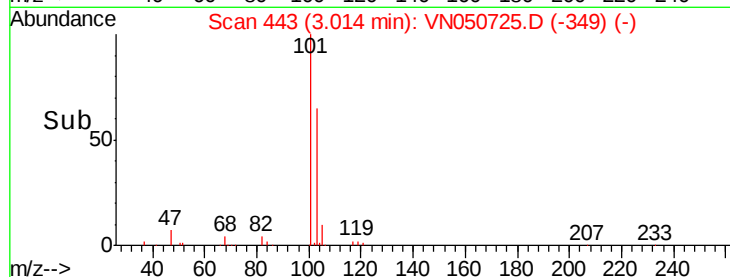
60000

40000

20000

0

Time--> 2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 19.27 ug/l

RT: 3.41 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN050725.D

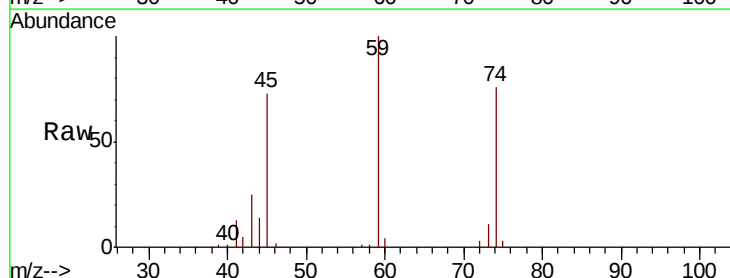
Acq: 17 Aug 2018 13:09

Tgt Ion: 74 Resp: 80031

Ion Ratio Lower Upper

74 100

45 96.0 48.0 144.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

40000

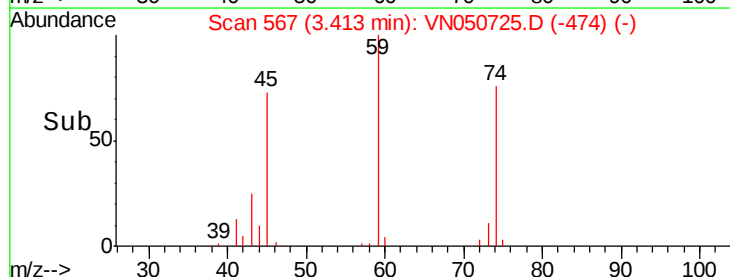
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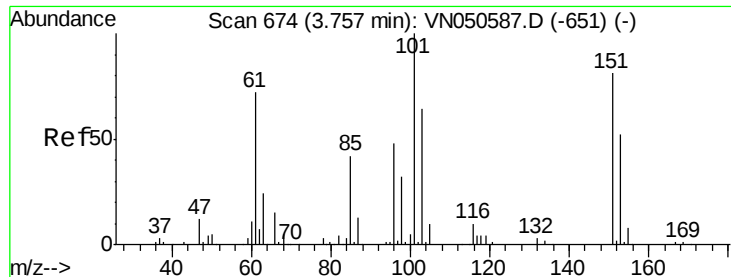
20000

10000

0

Time--> 3.30 3.35 3.40 3.45 3.50





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.46 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

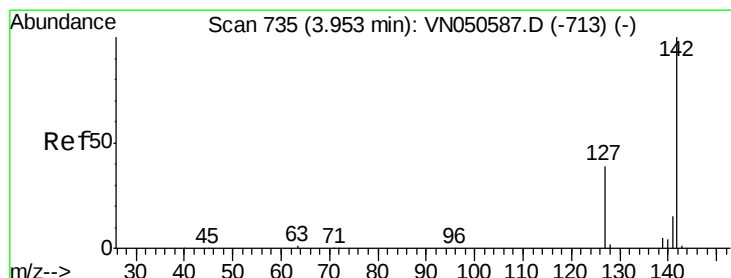
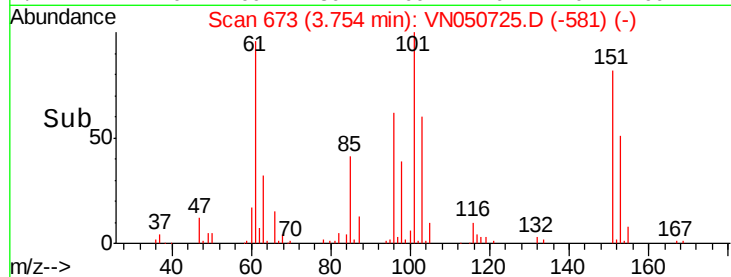
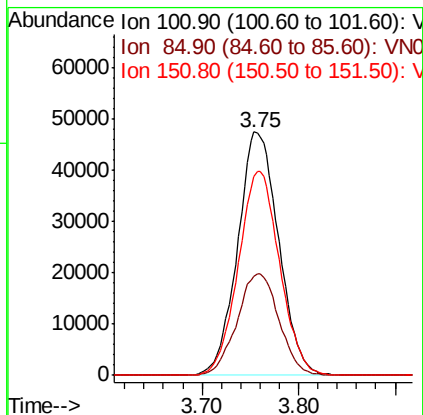
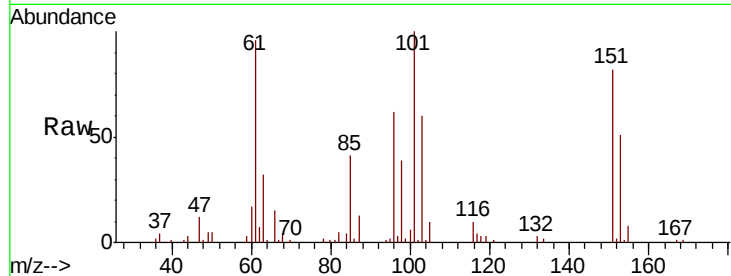
ClientSampleId :

VN0817WBSD02

Tot Ion:	101	Resp:	139388
Ion Ratio	Lower	Upper	
101	100		
85	42.7	33.4	50.0
151	84.5	66.6	100.0

Manual Integrations
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#10

Methyl Iodide

Concen: 21.14 ug/l

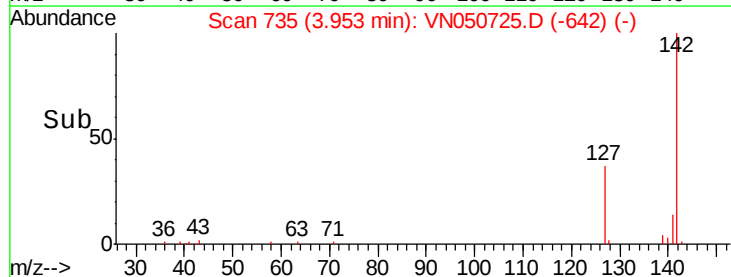
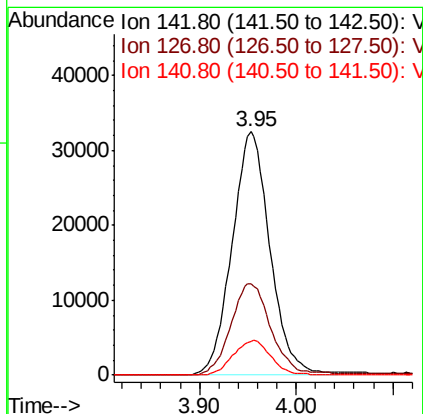
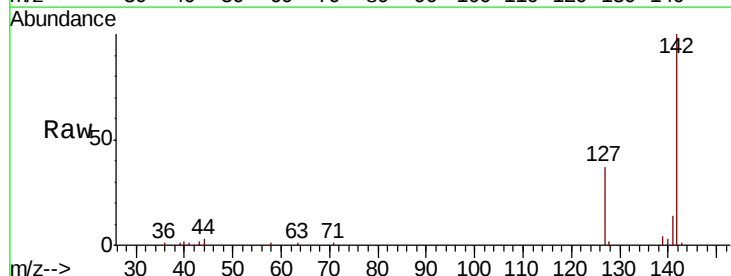
RT: 3.95 min Scan# 735

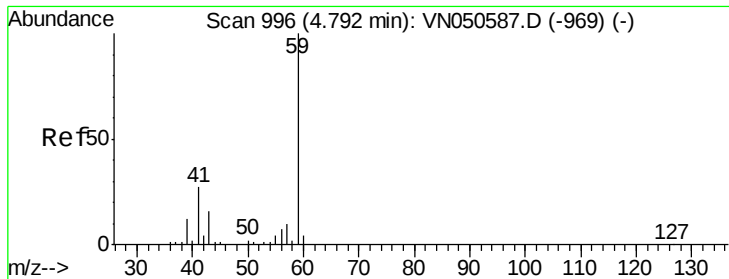
Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Tgt Ion:	142	Resp:	88446
Ion Ratio	Lower	Upper	
142	100		
127	39.6	32.6	49.0
141	14.2	11.5	17.3





#11

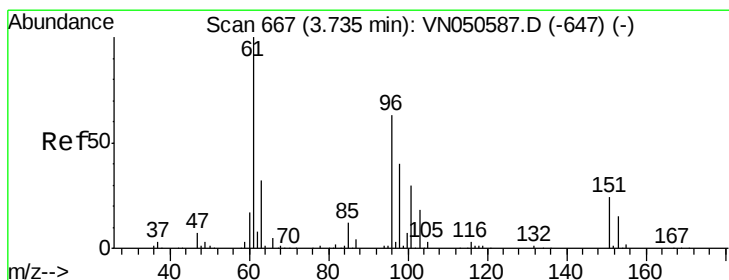
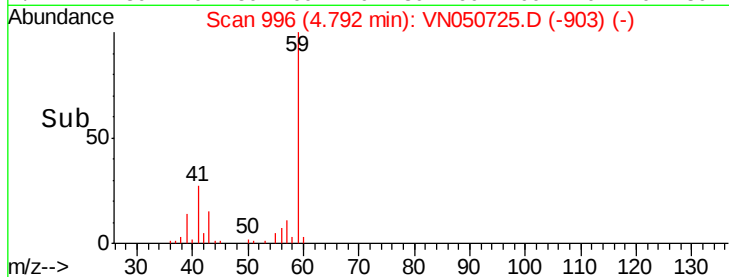
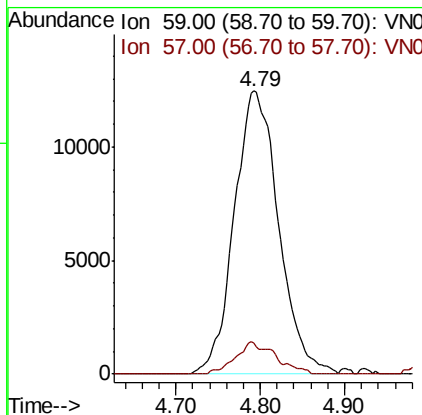
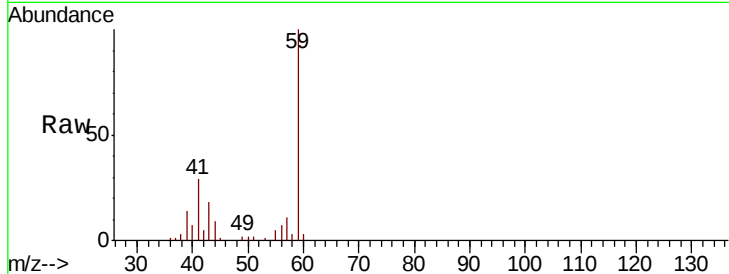
Tert butyl alcohol
Concen: 104.43 ug/l
RT: 4.79 min Scan# 996
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	59	Resp	45674
Ion Ratio	100	Lower	Upper
57	10.4	8.4	12.6

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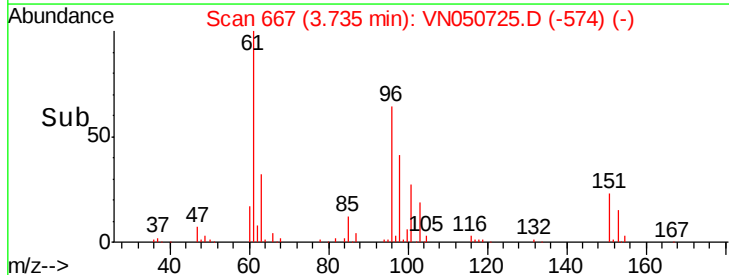
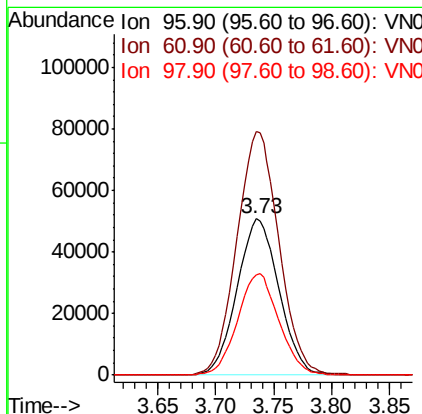
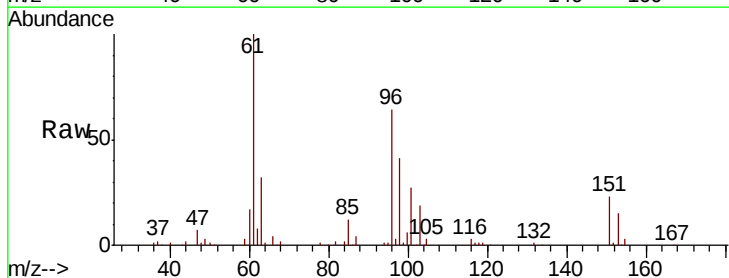
MMDadoda
8/20/2018 10:53:04 AM

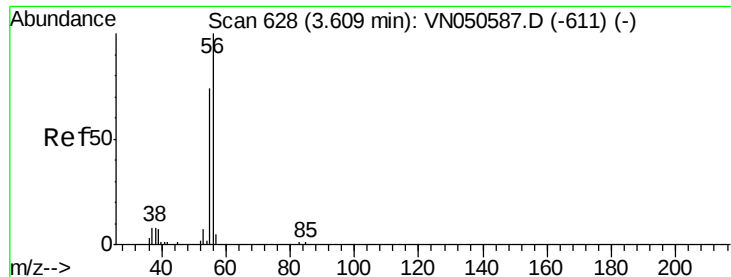


#12

1,1-Dichloroethene
Concen: 18.50 ug/l
RT: 3.73 min Scan# 667
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	96	Resp	127526
Ion Ratio	100	Lower	Upper
61	155.2	126.9	190.3
98	64.1	51.1	76.7





#13

Acrolein

Concen: 53.77 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 56 Resp: 10272

Ion Ratio Lower Upper

56 100

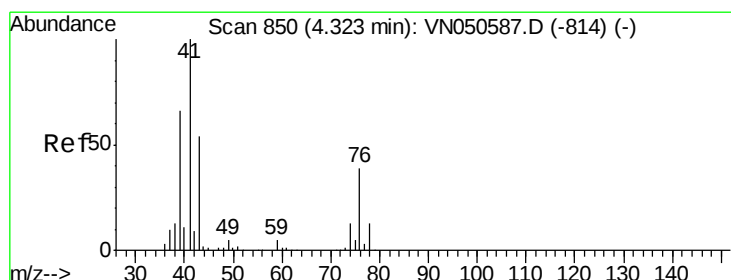
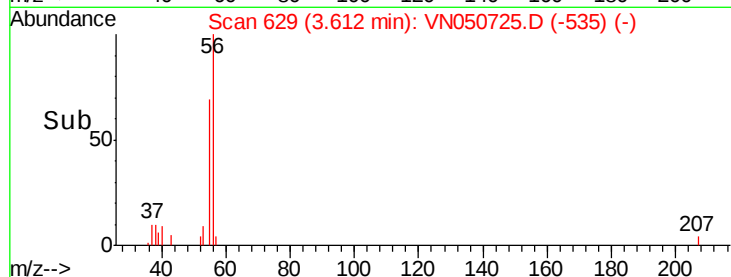
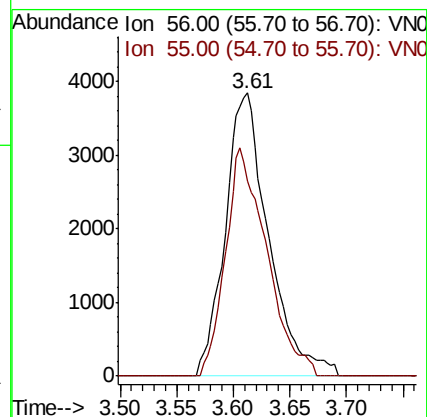
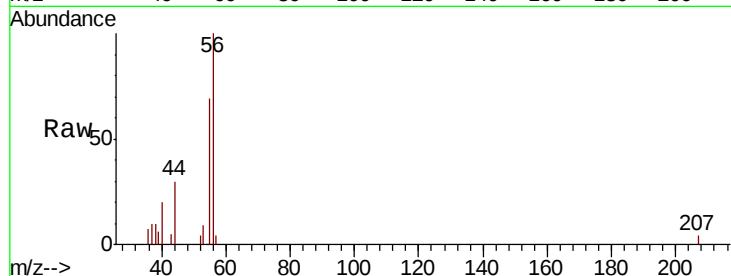
55 76.5 56.3 84.5

Manual Integrations

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#14

Allyl chloride

Concen: 18.80 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

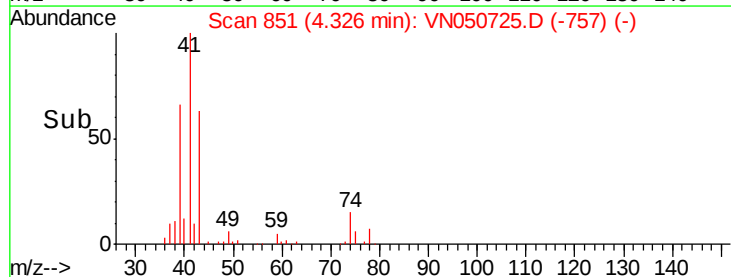
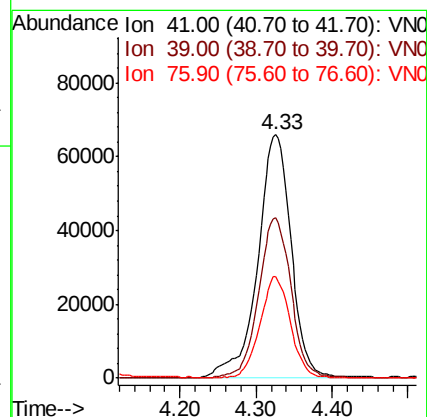
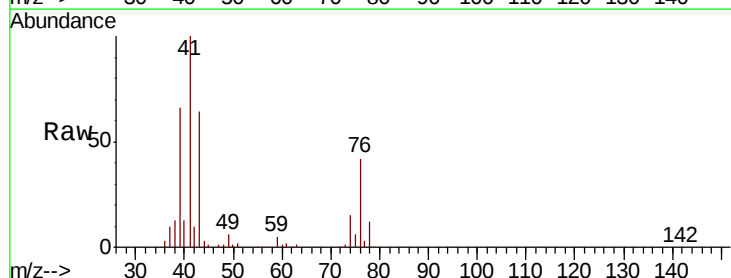
Tgt Ion: 41 Resp: 201682

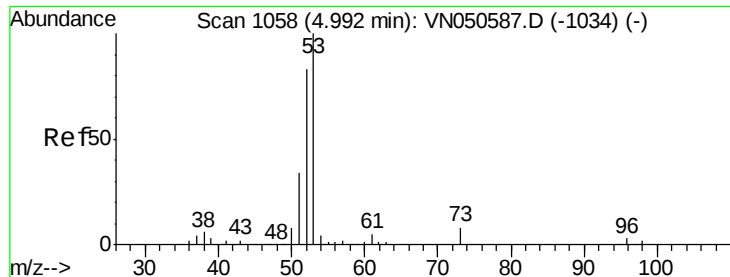
Ion Ratio Lower Upper

41 100

39 63.7 51.4 77.0

76 37.9 29.4 44.0





#15

Acrylonitrile

Concen: 98.48 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

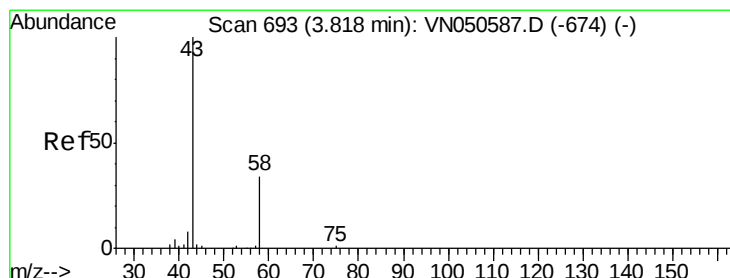
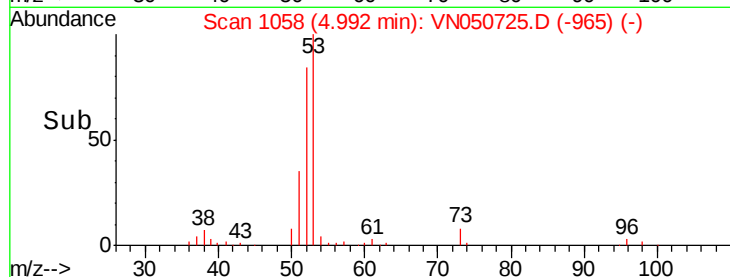
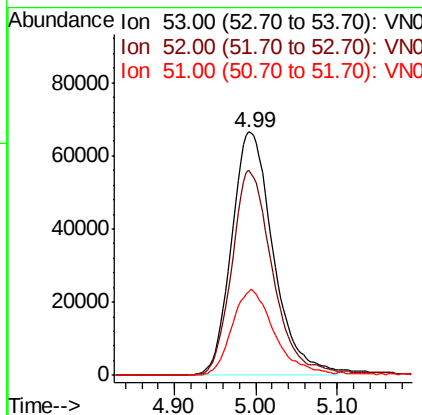
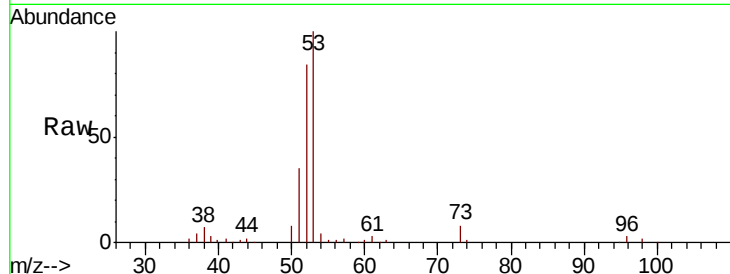
ClientSampleId :

VN0817WBSD02

Tot Ion:	53	Resp:	236559
Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.2	99.2
51	35.9	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 110.05 ug/l

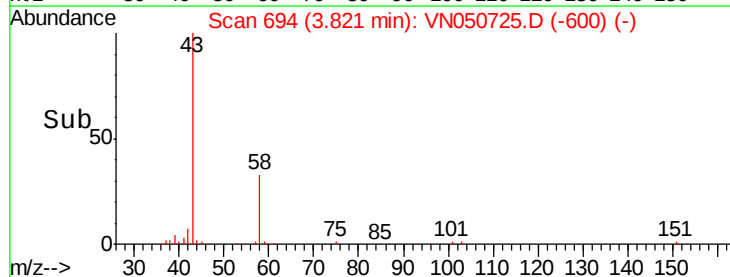
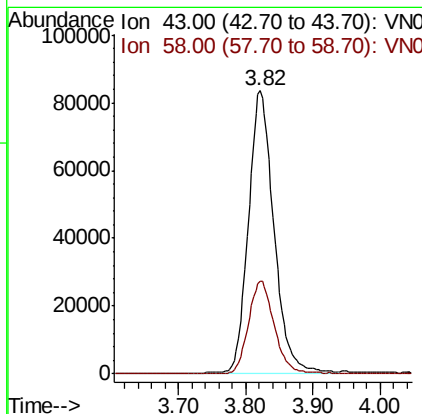
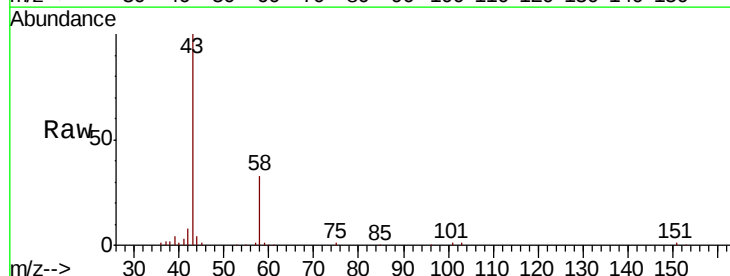
RT: 3.82 min Scan# 694

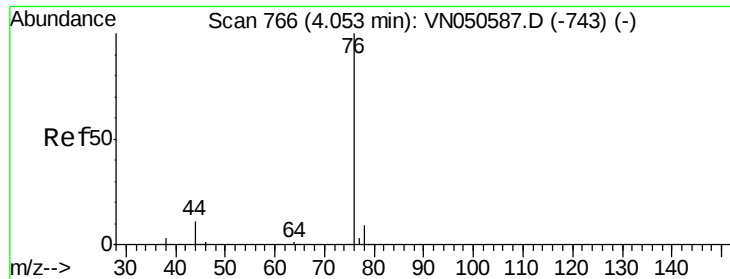
Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Tgt Ion:	43	Resp:	221723
Ion	Ratio	Lower	Upper
43	100		
58	32.9	27.1	40.7





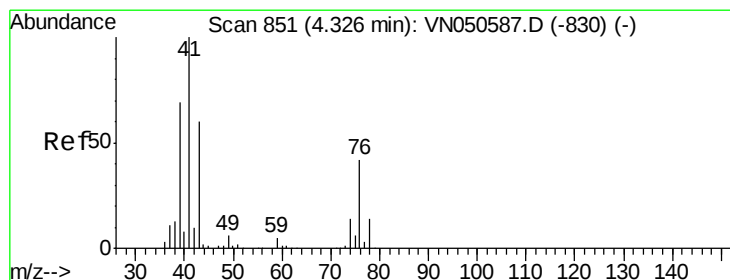
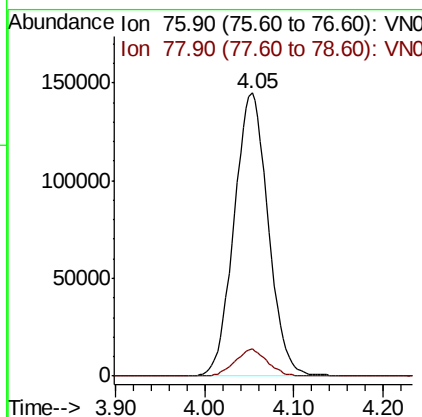
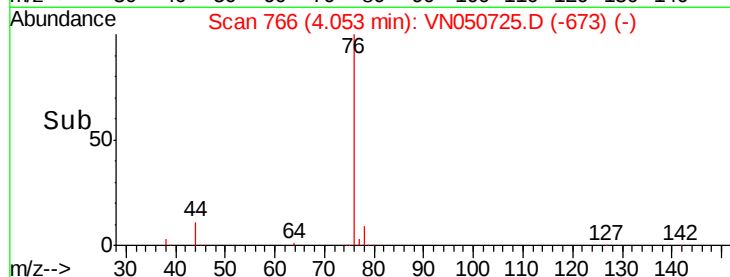
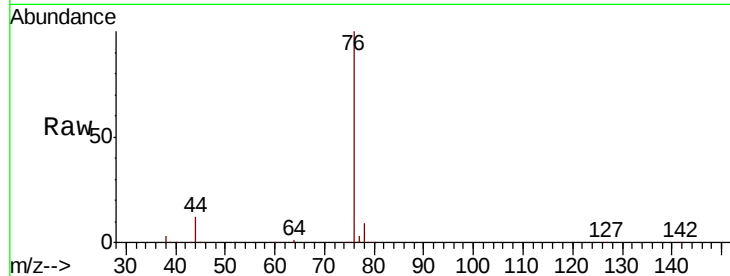
#17
Carbon Disulfide
Concen: 17.72 ug/l
RT: 4.05 min Scan# 766
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.3	10.9

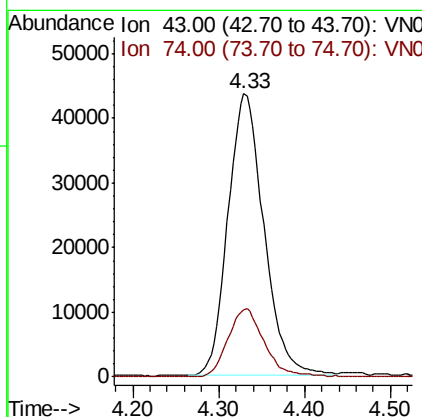
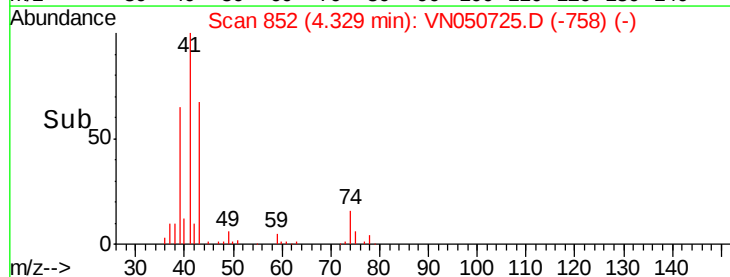
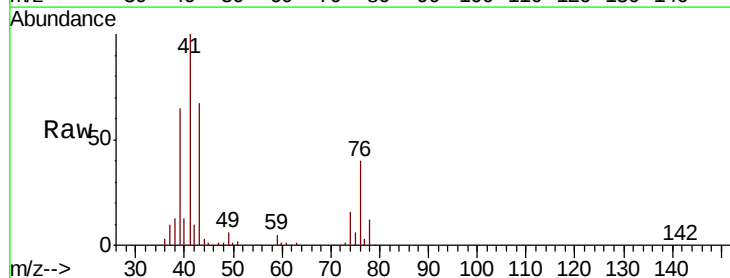
Manual Integrations
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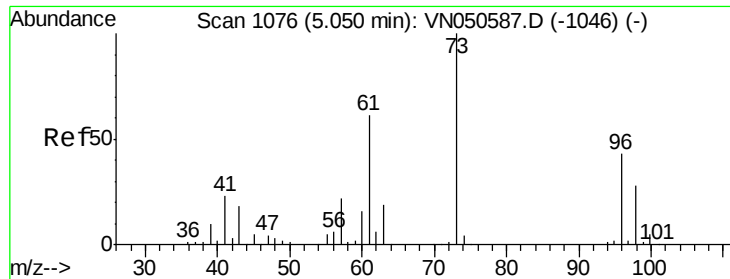
MMDadoda
8/20/2018 10:53:04 AM



#18
Methyl Acetate
Concen: 22.00 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.5	19.7	29.5





#19

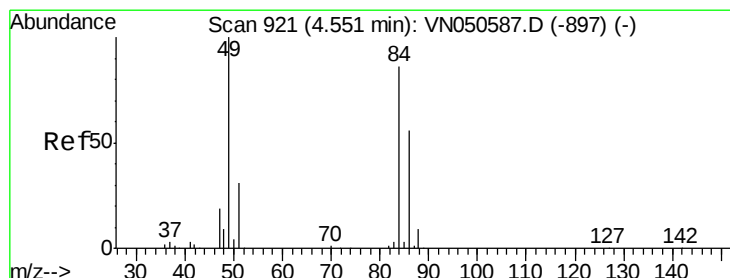
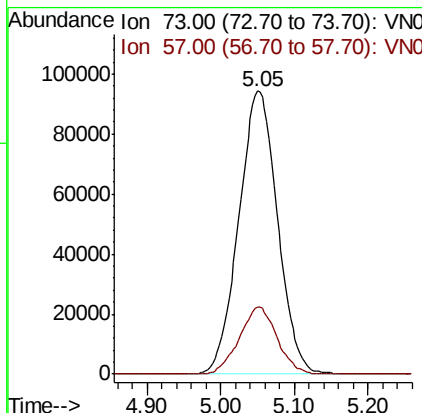
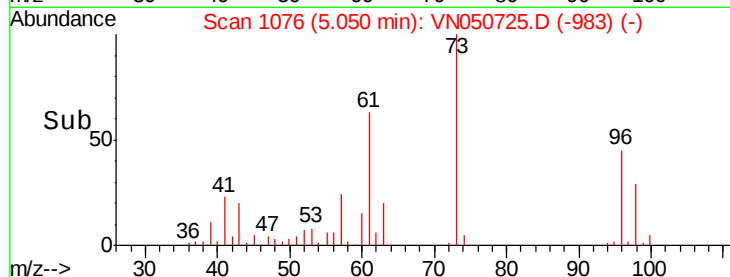
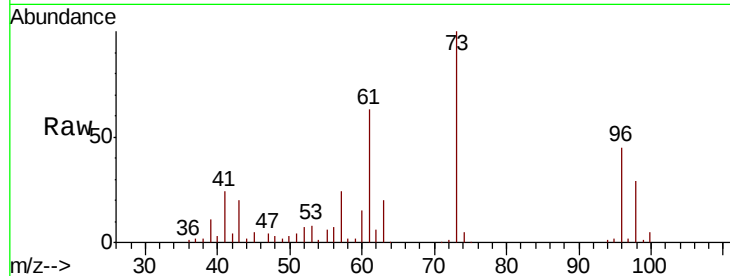
Methyl tert-butyl Ether
 Concen: 19.67 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.9	17.9	26.9

Manual Integrations
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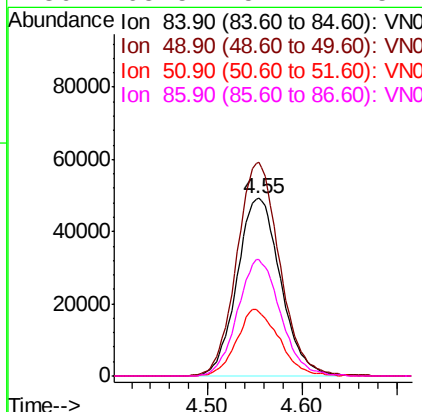
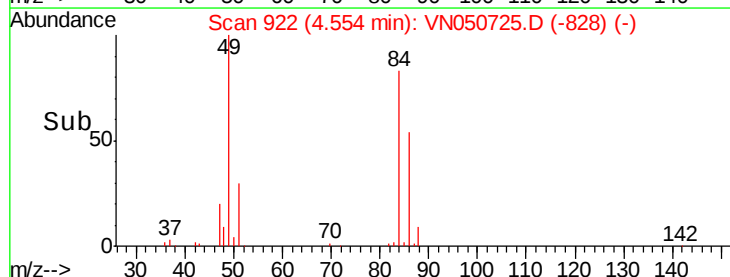
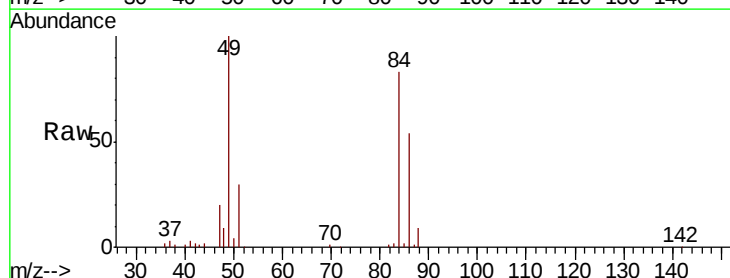
MMDadoda
 8/20/2018 10:53:04 AM

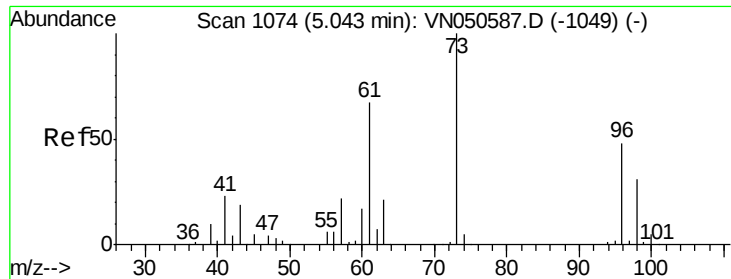


#20

Methylene Chloride
 Concen: 19.94 ug/l
 RT: 4.55 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
84	100		
49	120.0	92.6	138.8
51	36.3	28.6	43.0
86	65.5	52.2	78.2





#21

trans-1,2-Dichloroethene

Concen: 18.87 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 96 Resp: 141069

Ion Ratio Lower Upper

96 100

61 138.3 111.2 166.8

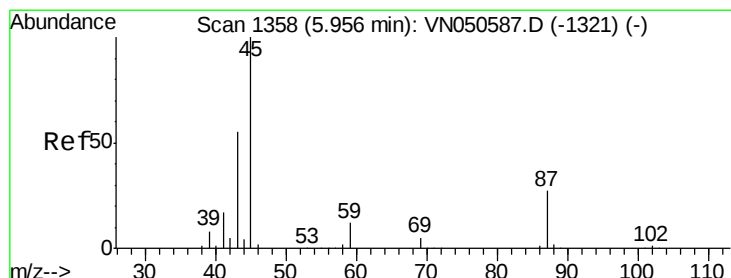
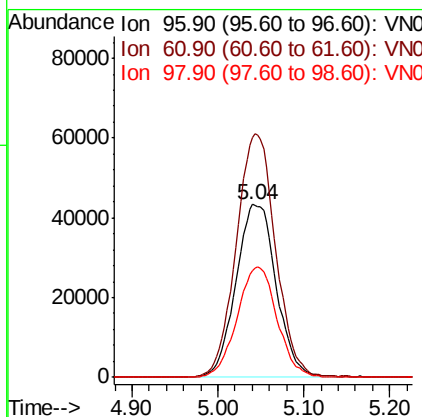
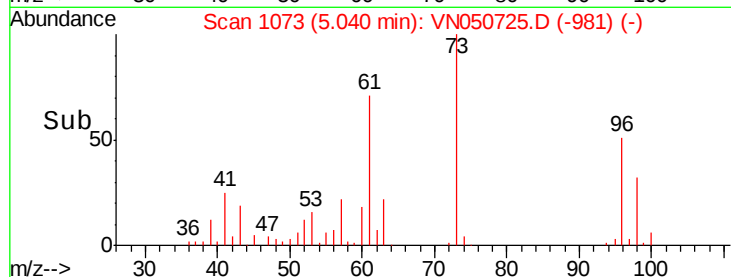
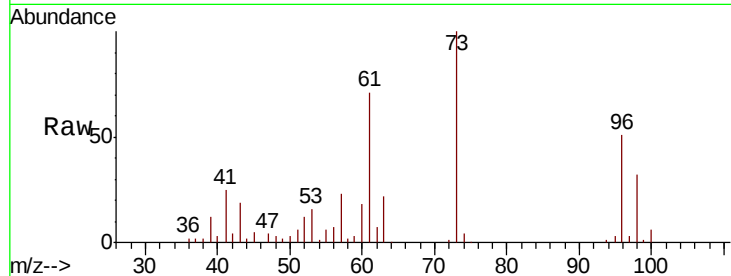
98 61.8 51.6 77.4

Manual Integrations

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#22

Diisopropyl ether

Concen: 20.48 ug/l

RT: 5.96 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Tgt Ion: 45 Resp: 450404

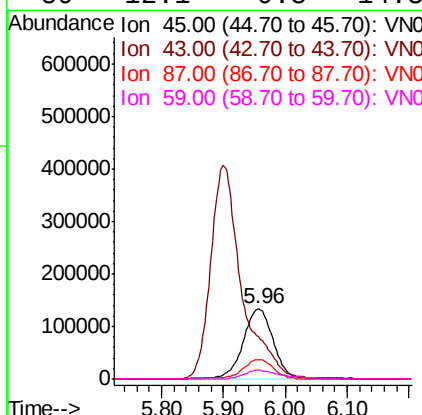
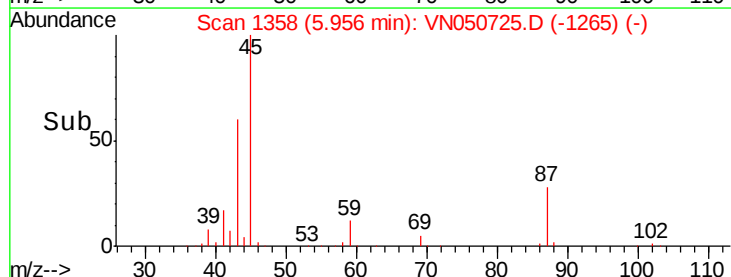
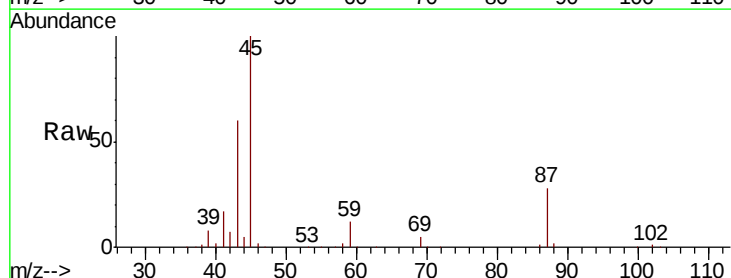
Ion Ratio Lower Upper

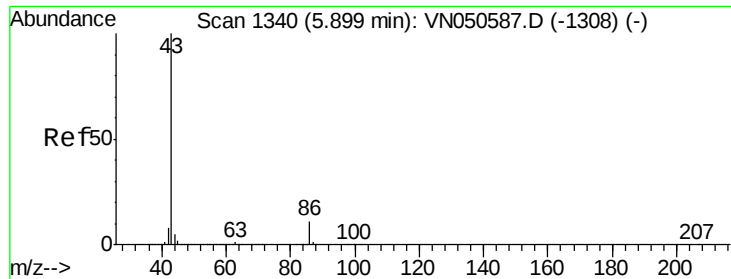
45 100

43 59.1 44.5 66.7

87 28.3 22.2 33.2

59 12.1 9.5 14.3





#23

Vinyl Acetate

Concen: 98.73 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 43 Resp: 1420209

Ion Ratio Lower Upper

43 100

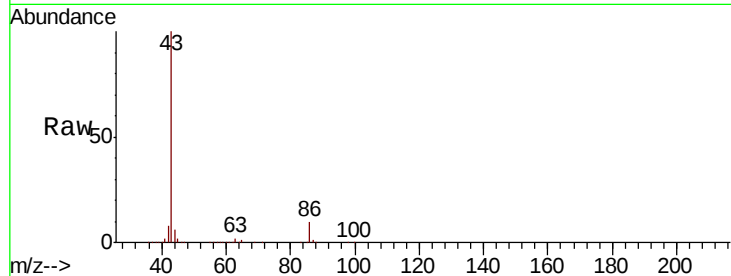
86 10.4 8.4 12.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

400000

300000

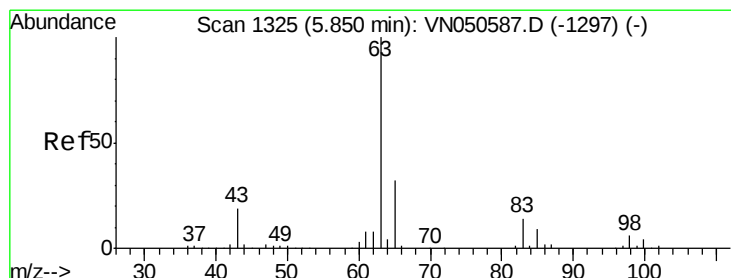
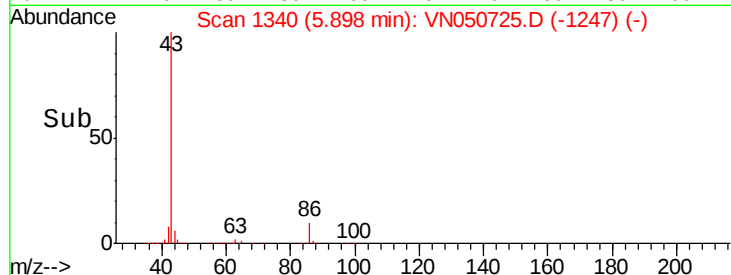
200000

100000

0

5.70 5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 18.95 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

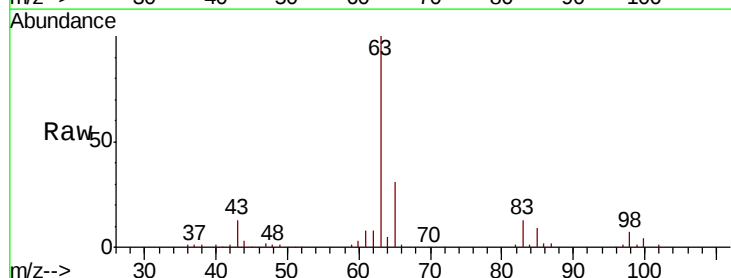
Tgt Ion: 63 Resp: 269657

Ion Ratio Lower Upper

63 100

98 6.8 3.2 9.6

100 4.3 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

120000

100000

80000

60000

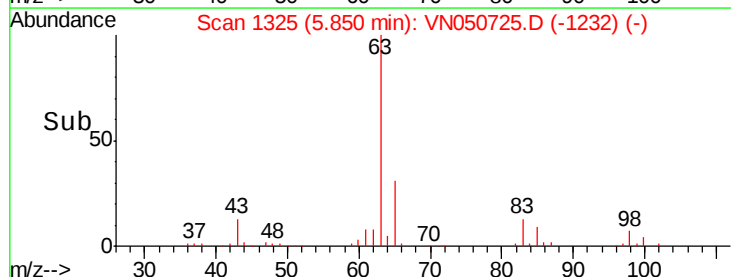
40000

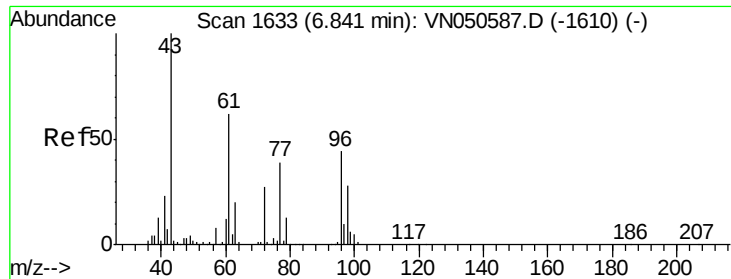
20000

0

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 101.72 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 43 Resp: 334066

Ion Ratio Lower Upper

43 100

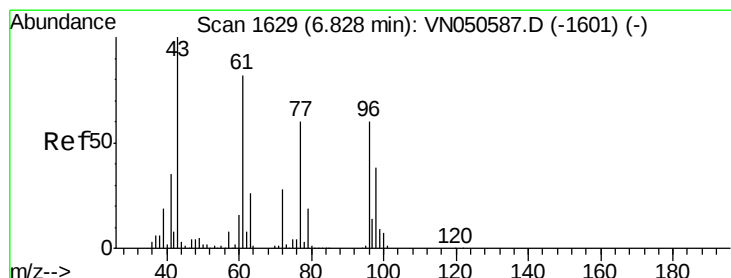
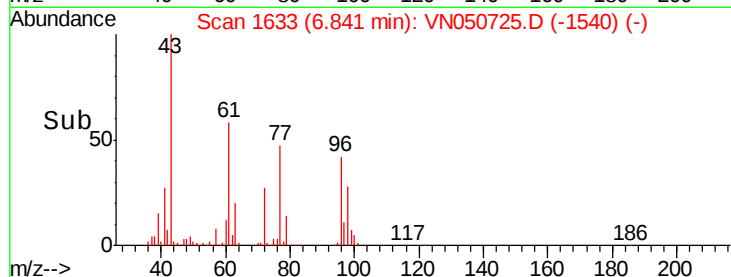
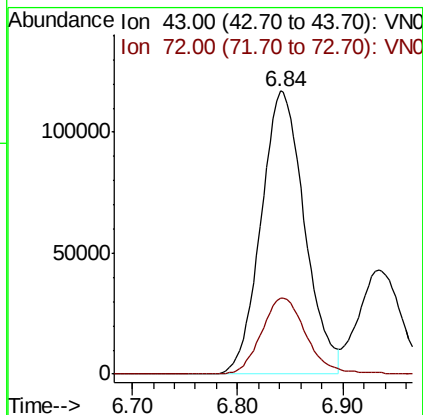
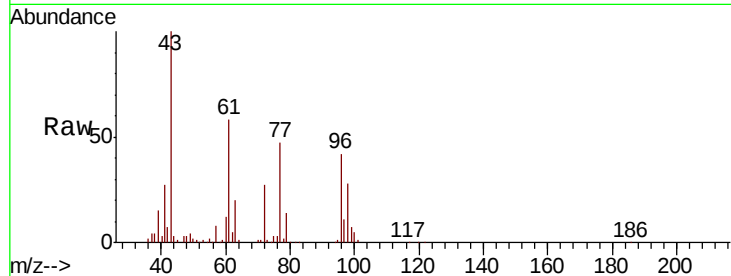
72 26.7 21.8 32.6

Manual Integrations

APPROVED

MMDadoda

8/20/2018 10:53:04 AM



#26

2,2-Dichloropropane

Concen: 21.45 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050725.D

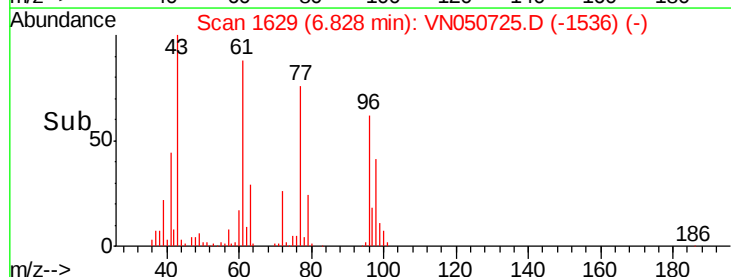
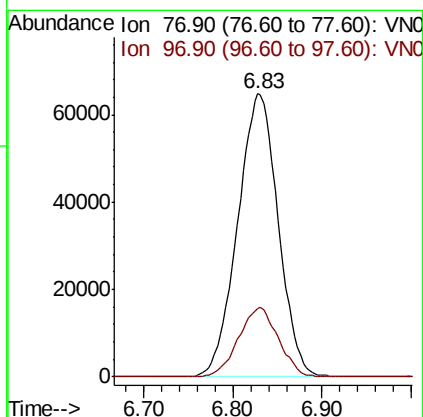
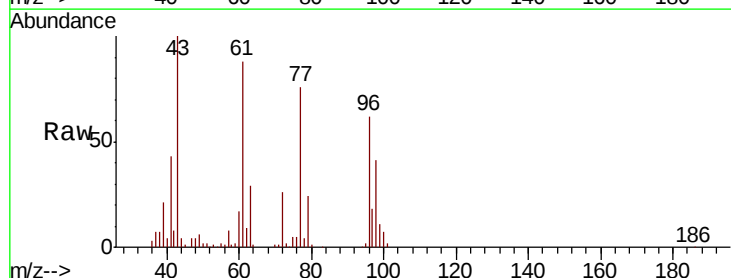
Acq: 17 Aug 2018 13:09

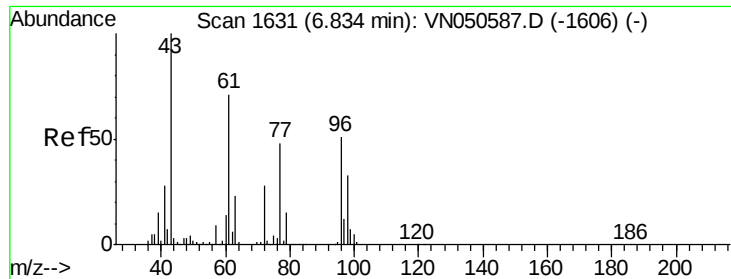
Tgt Ion: 77 Resp: 204266

Ion Ratio Lower Upper

77 100

97 23.9 12.2 36.4





#27

cis-1,2-Dichloroethene

Concen: 18.96 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

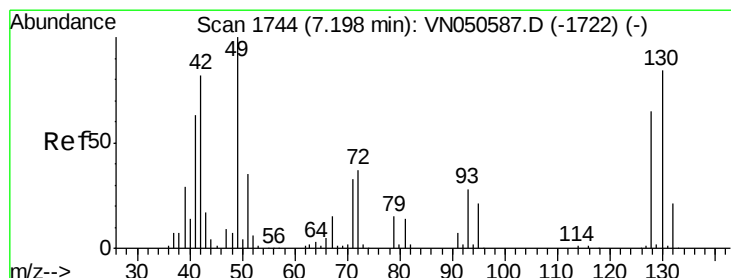
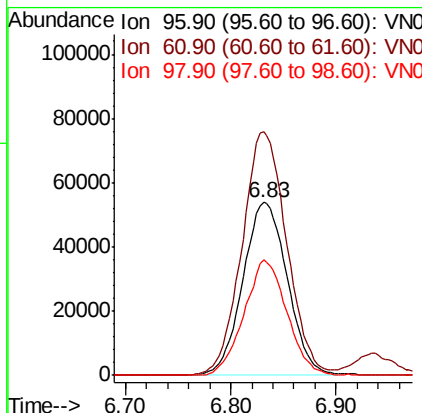
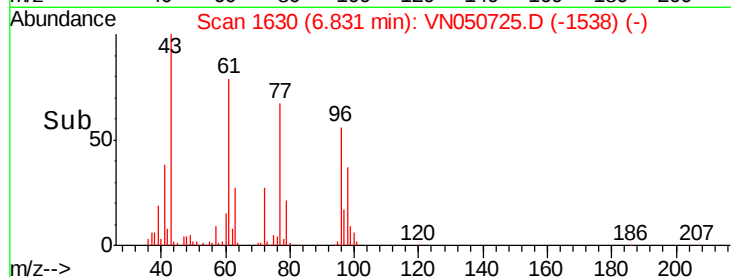
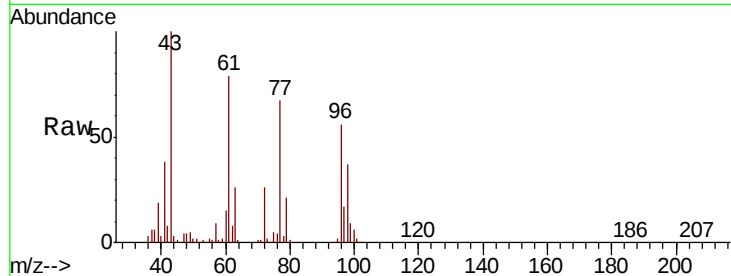
ClientSampleID :

VN0817WBSD02

Tot Ion:	96	Resp:	157857
Ion	Ratio	Lower	Upper
96	100		
61	141.8	0.0	278.2
98	64.1	0.0	128.8

Manual Integrations
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#28

Bromochloromethane

Concen: 18.49 ug/l

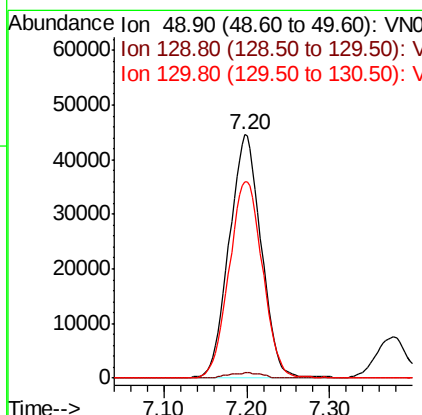
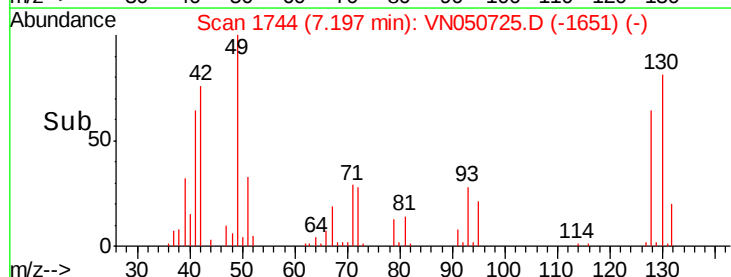
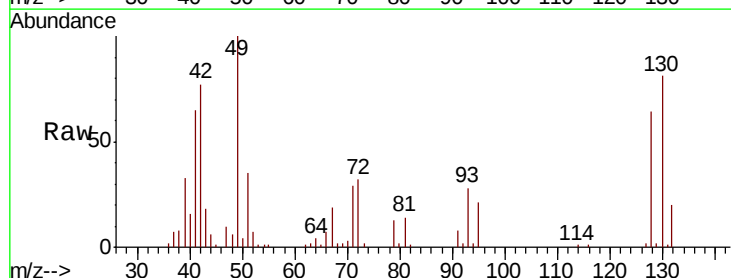
RT: 7.20 min Scan# 1744

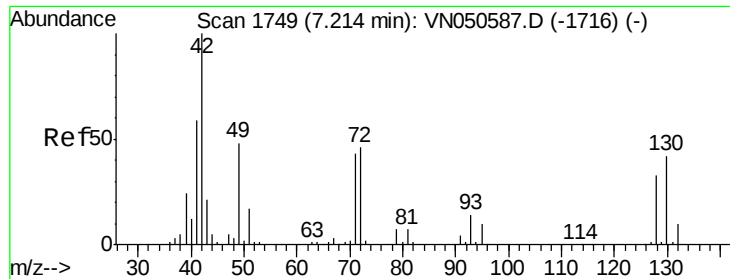
Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Tgt Ion:	49	Resp:	119748
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	84.1	66.8	100.2





#29

Tetrahydrofuran

Concen: 102.41 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 42 Resp: 175602

Ion Ratio Lower Upper

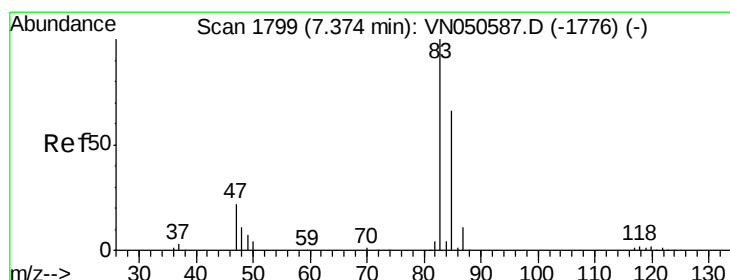
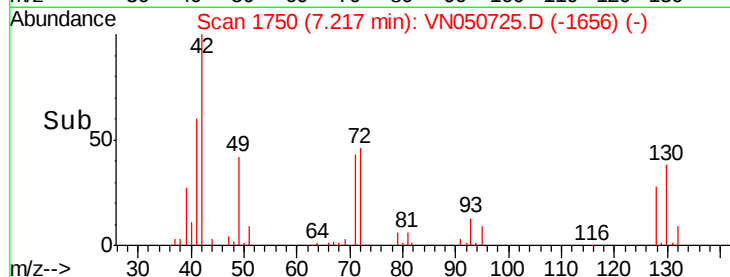
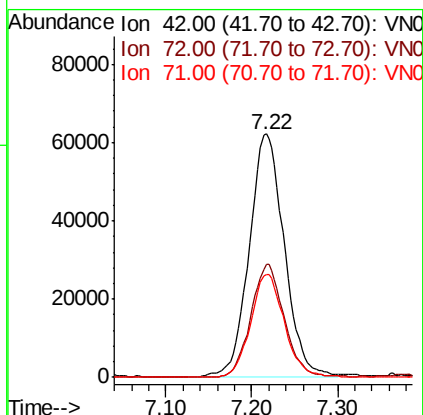
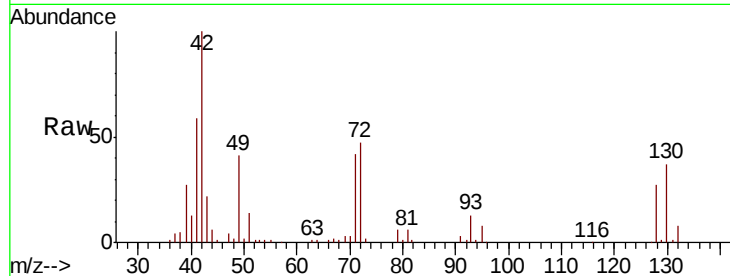
42 100

72 44.3 35.8 53.6

71 41.2 33.4 50.0

Manual Integrations
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MMDadoda
8/20/2018 10:53:04 AM



#30

Chloroform

Concen: 18.79 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. -0.00 min

Lab File: VN050725.D

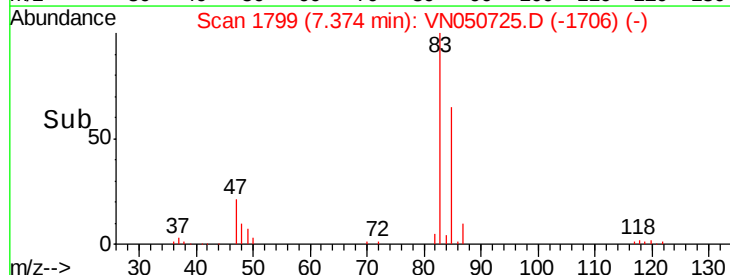
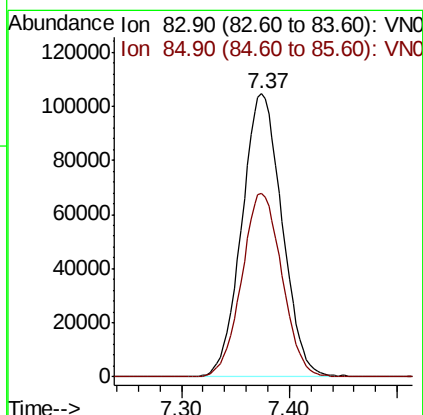
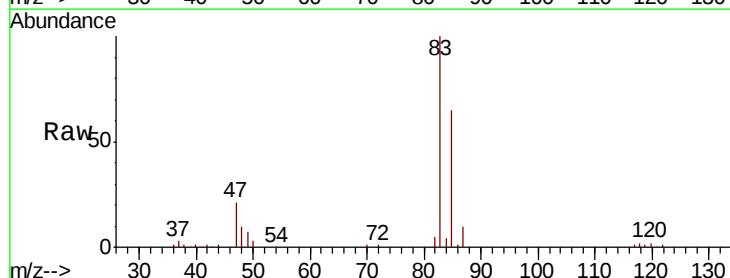
Acq: 17 Aug 2018 13:09

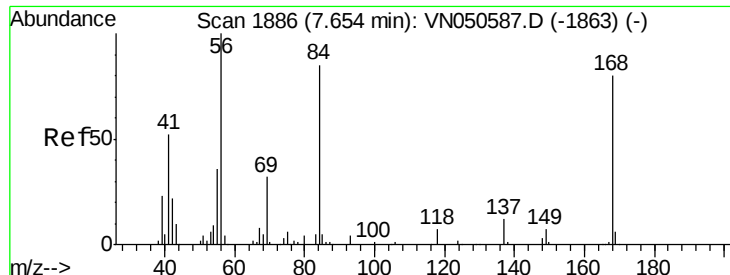
Tgt Ion: 83 Resp: 270870

Ion Ratio Lower Upper

83 100

85 65.1 52.5 78.7





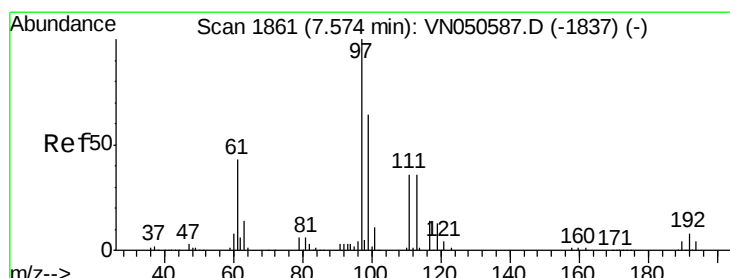
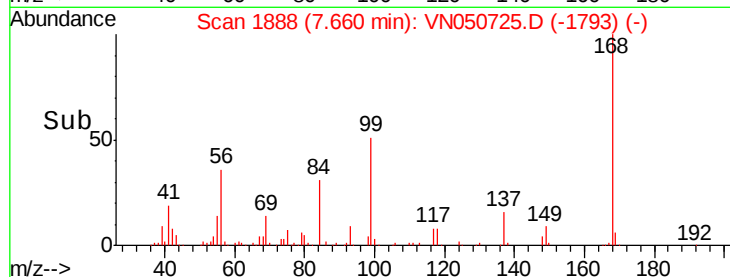
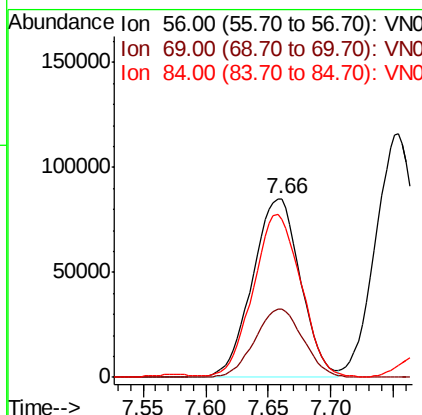
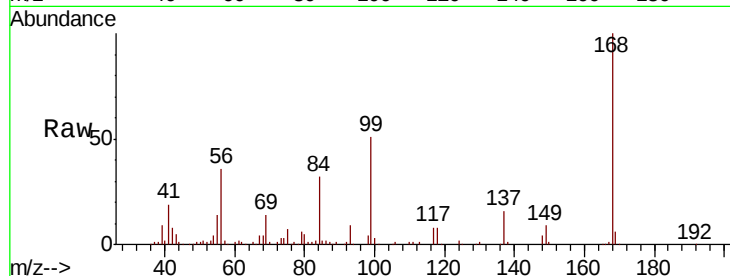
#31
Cyclohexane
Concen: 18.52 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.01 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.3	25.8	38.6
84	87.3	67.8	101.6

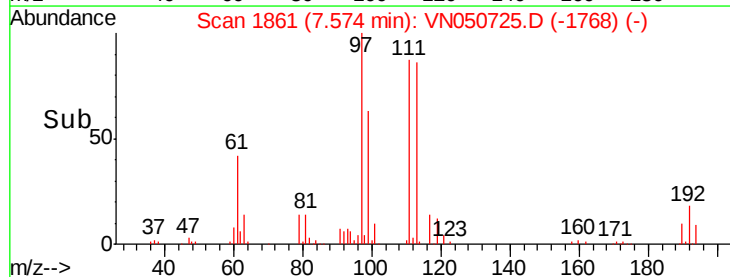
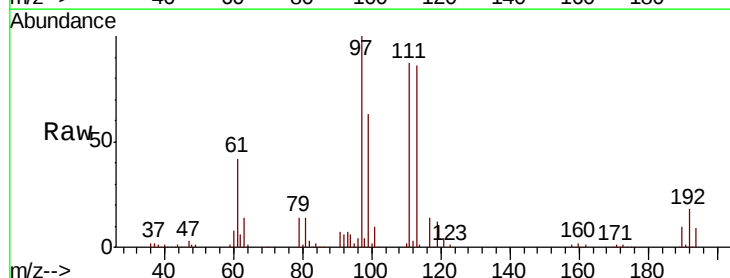
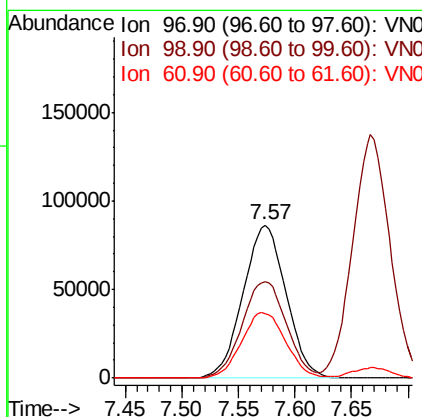
Manual Integrations
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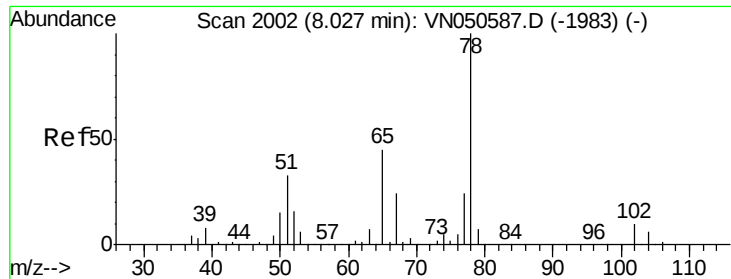
MMDadoda
8/20/2018 10:53:04 AM



#32
1,1,1-Trichloroethane
Concen: 18.77 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.1	76.7
61	43.9	34.8	52.2





#33

1,2-Dichloroethane-d4

Concen: 49.92 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 65 Resp: 399836

Ion Ratio Lower Upper

65 100

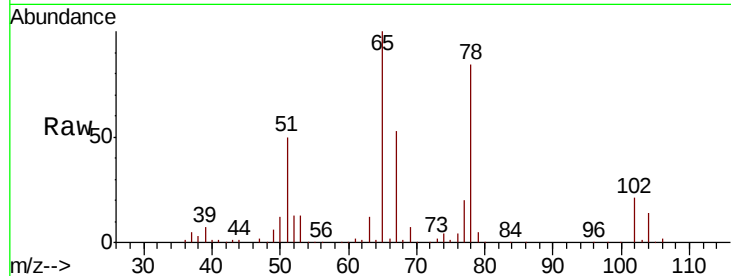
67 54.6 0.0 109.8

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VN050587.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050587.D (-1983) (-)

8.03

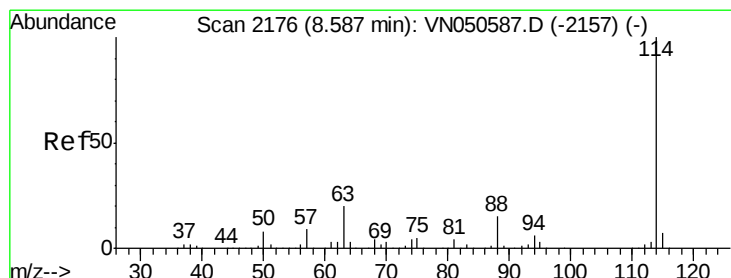
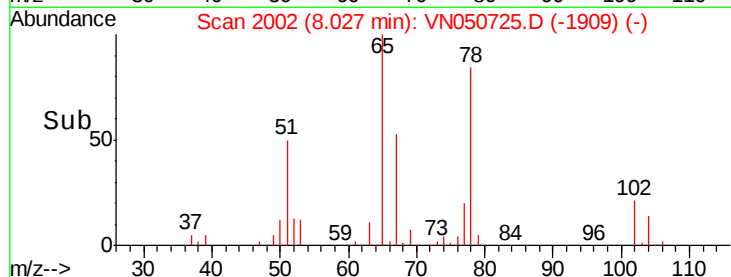
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

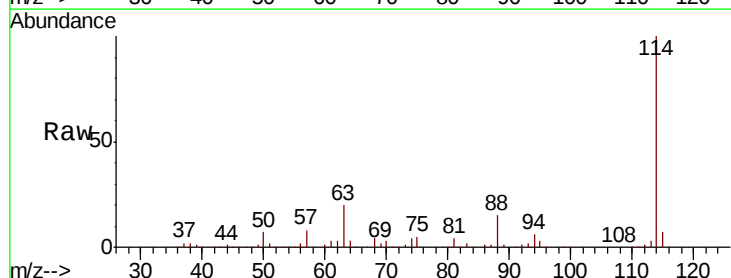
Tgt Ion: 114 Resp: 924939

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

88 15.5 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): VN050587.D (-2157) (-)

Ion 63.00 (62.70 to 63.70): VN050587.D (-2157) (-)

Ion 87.90 (87.60 to 88.60): VN050587.D (-2157) (-)

8.59

600000

500000

400000

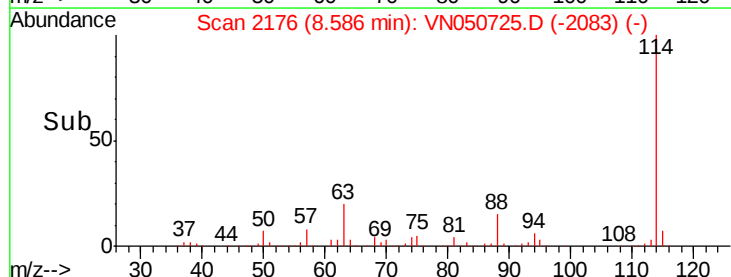
300000

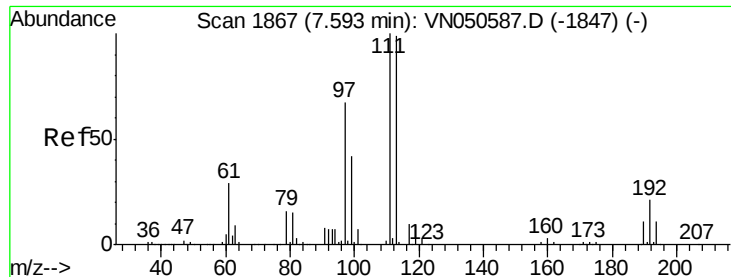
200000

100000

0

Time-->





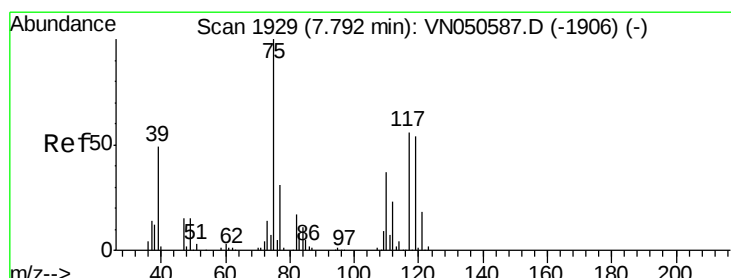
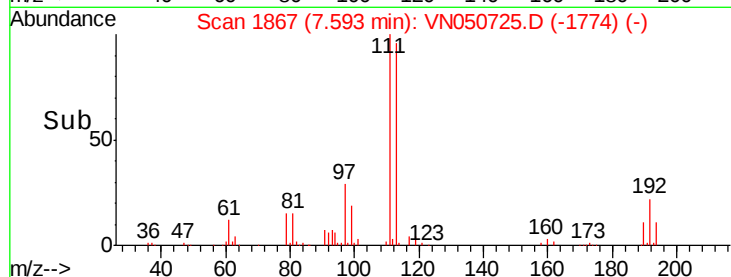
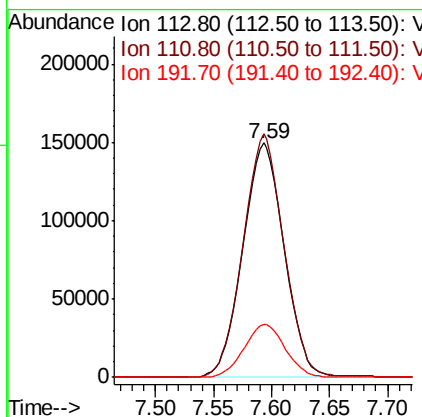
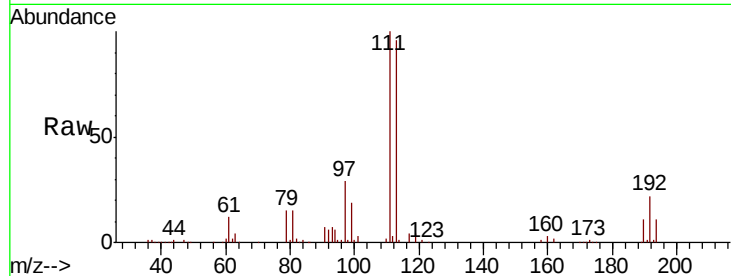
#35
Dibromofluoromethane
Concen: 50.20 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	370681		
111	103.0	81.0	121.6	
192	22.5	17.6	26.4	

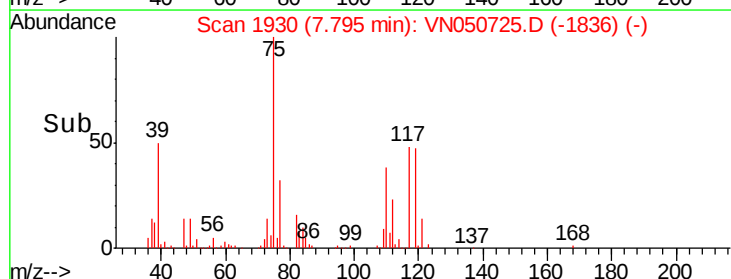
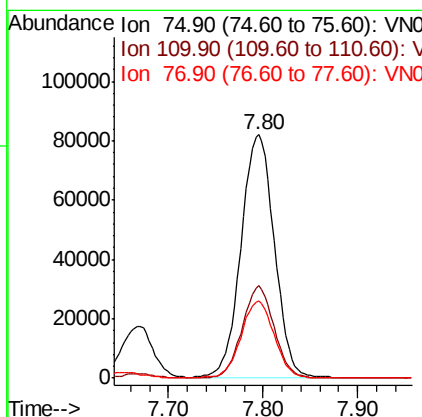
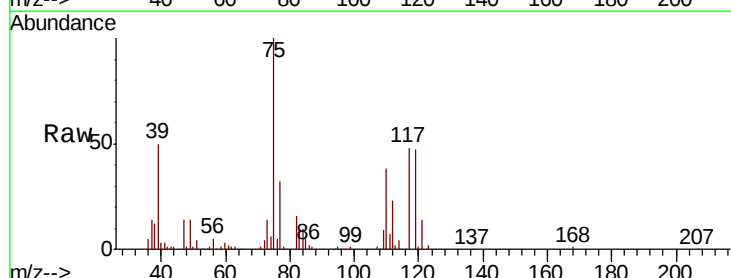
Manual Integrations
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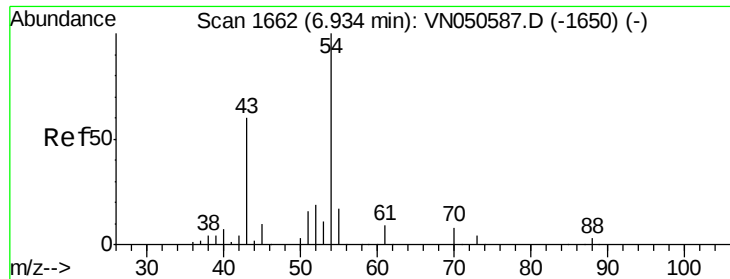
MMDadoda
8/20/2018 10:53:04 AM



#36
1,1-Dichloropropene
Concen: 19.50 ug/l
RT: 7.80 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	200774		
110	36.2	18.3	54.9	
77	31.7	25.0	37.4	





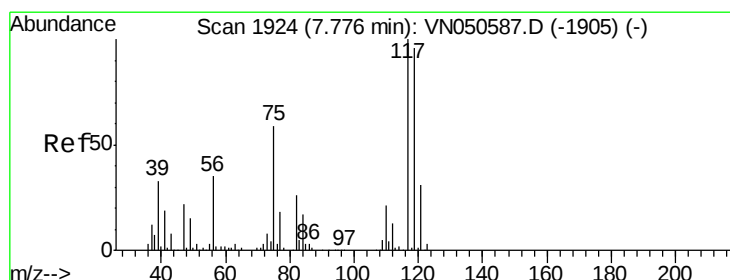
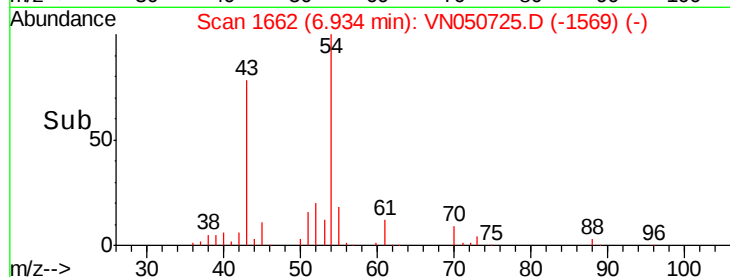
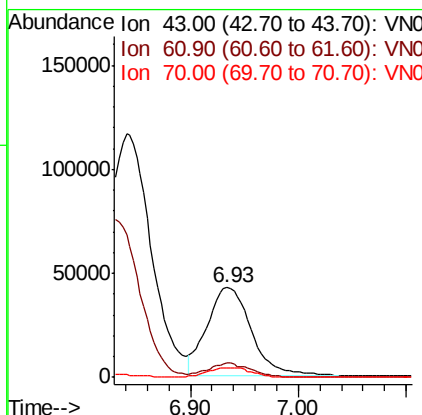
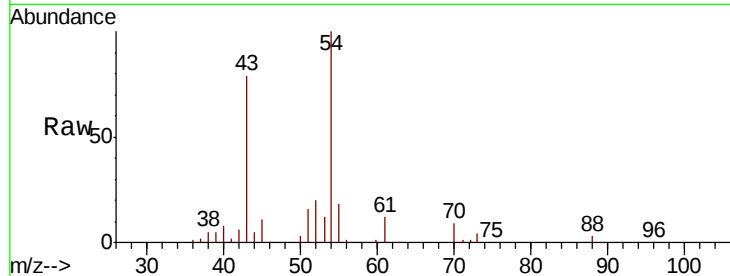
#37
Ethyl Acetate
Concen: 20.83 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	43	Resp	121231
Ion Ratio	Lower	Upper	
43	100		
61	14.0	12.0	18.0
70	11.1	8.5	12.7

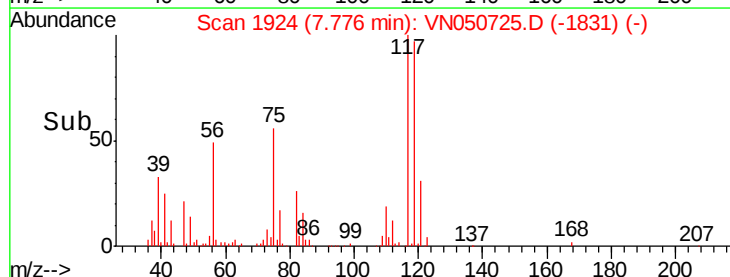
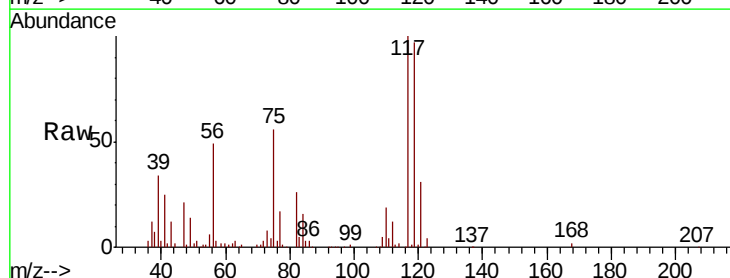
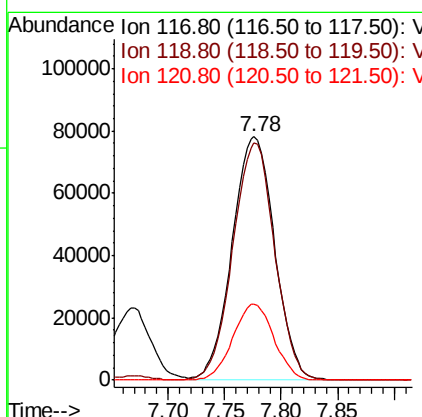
Manual Integrations
APPROVED

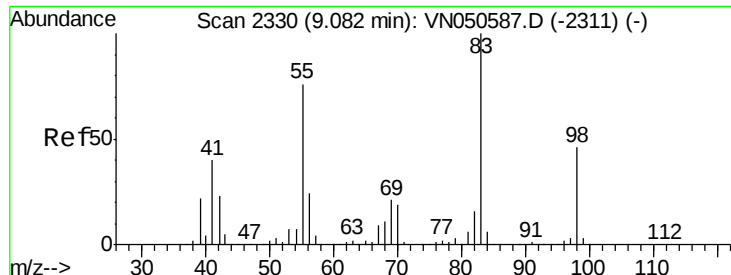
MMDadoda
8/20/2018 10:53:04 AM



#38
Carbon Tetrachloride
Concen: 19.12 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	117	Resp	204227
Ion Ratio	Lower	Upper	
117	100		
119	97.4	76.6	115.0
121	31.4	25.0	37.6





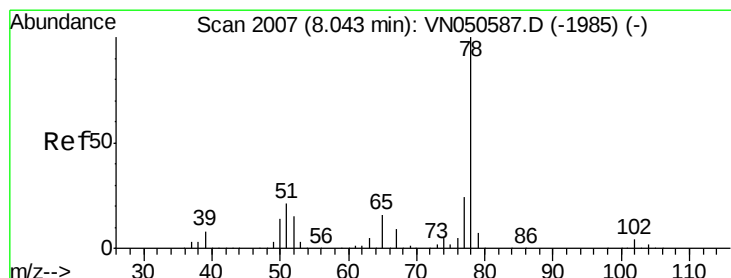
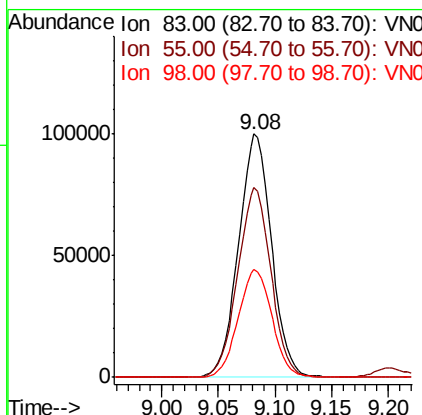
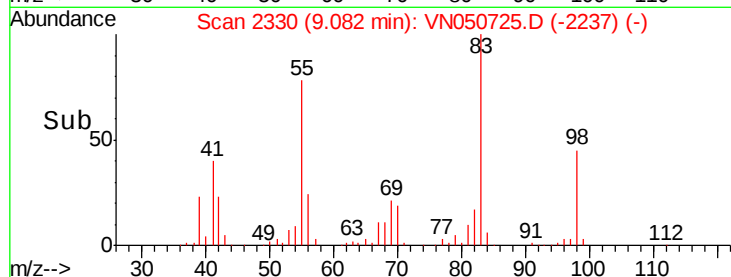
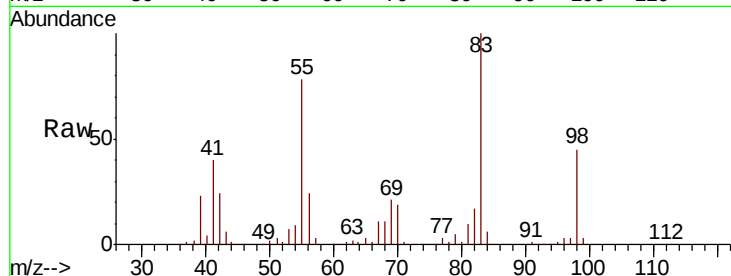
#39
Methvlcvclohexane
Concen: 19.07 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampled :
VN0817WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	203253		
55	77.8	60.6	91.0	
98	44.5	37.0	55.4	

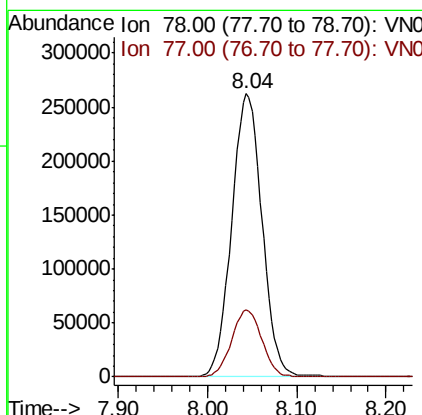
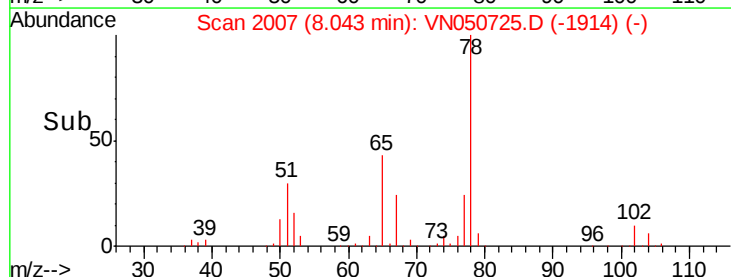
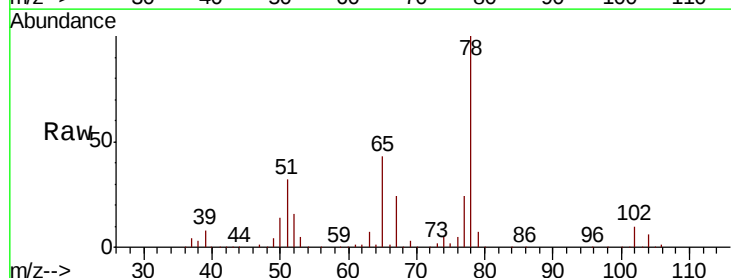
Manual Integrations
APPROVED

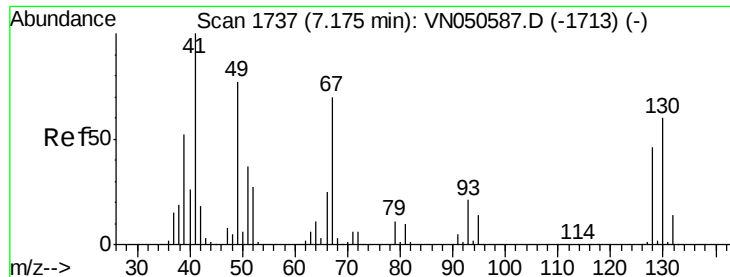
MMDadoda
8/20/2018 10:53:04 AM



#40
Benzene
Concen: 19.80 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	620299		
77	23.9	19.0	28.6	





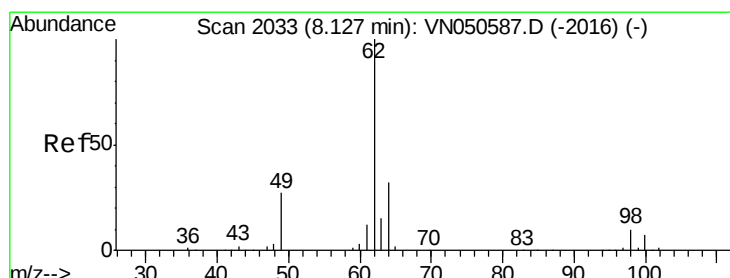
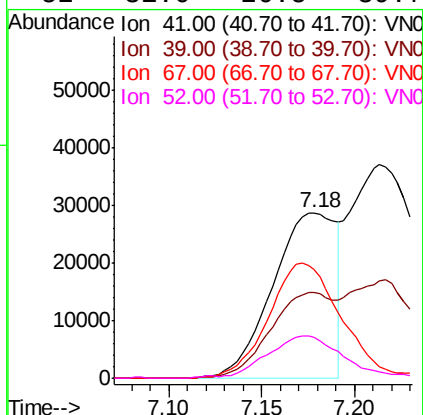
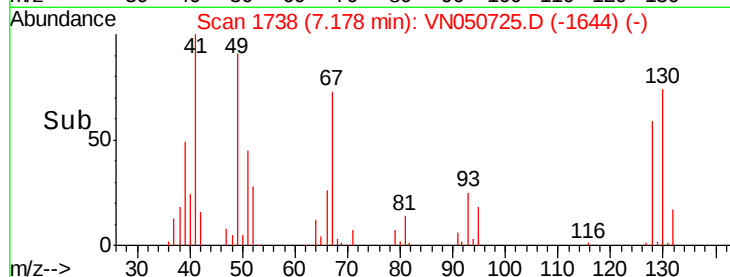
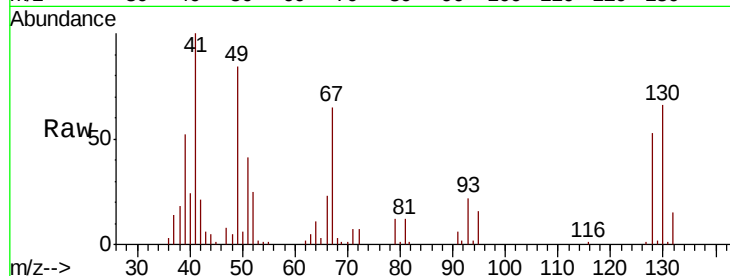
#41
Methacrylonitrile
Concen: 21.71 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.8	44.6	66.8
67	81.2	66.7	100.1
52	31.0	26.5	39.7

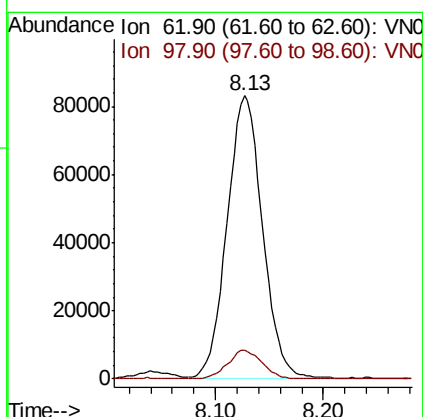
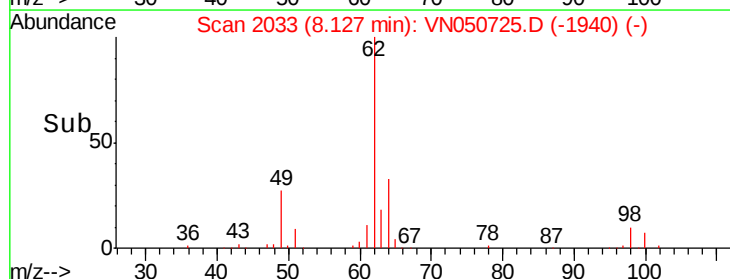
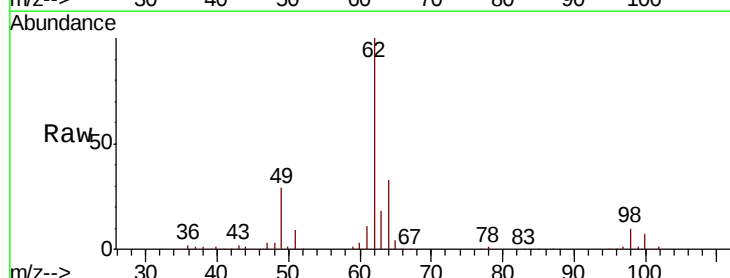
Manual Integrations
APPROVED

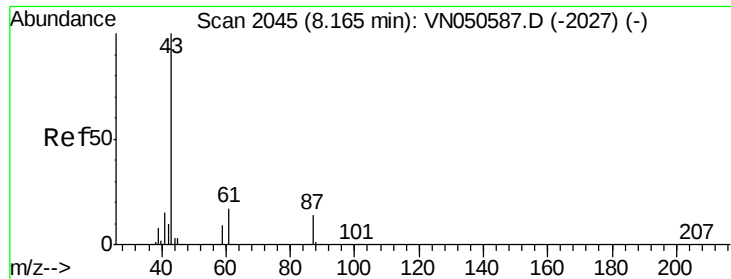
MMDadoda
8/20/2018 10:53:04 AM



#42
1,2-Dichloroethane
Concen: 19.72 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.4





#43

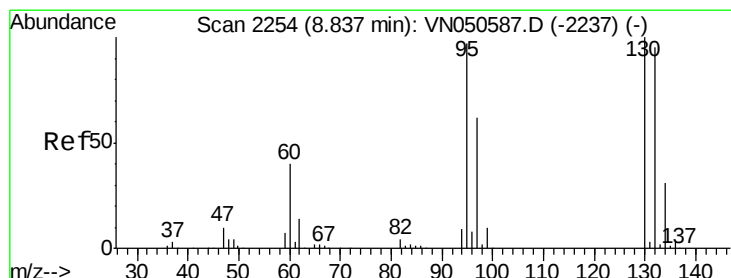
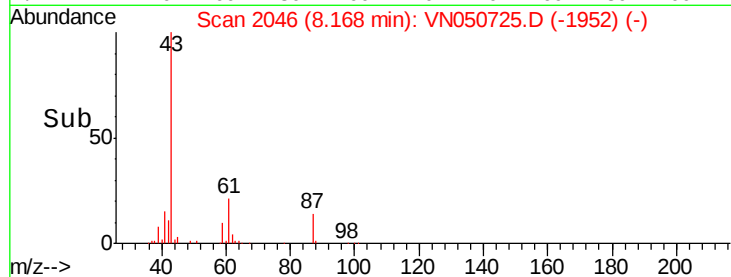
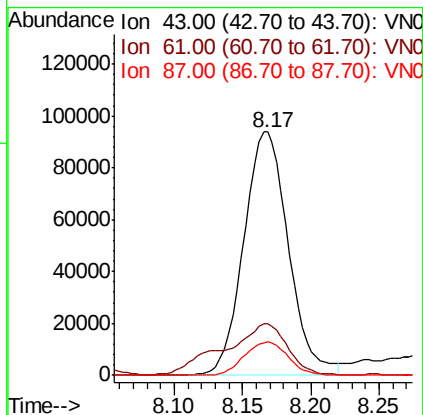
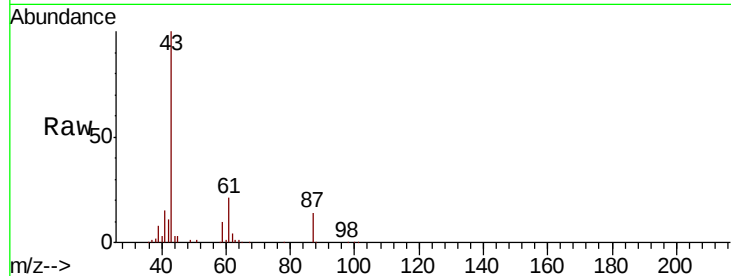
Isopropyl Acetate
 Concen: 20.05 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.8	16.2	24.2
87	13.5	10.9	16.3

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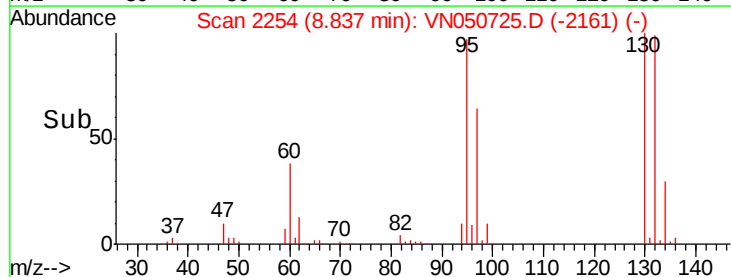
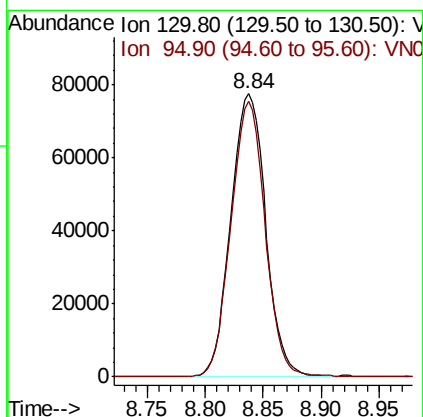
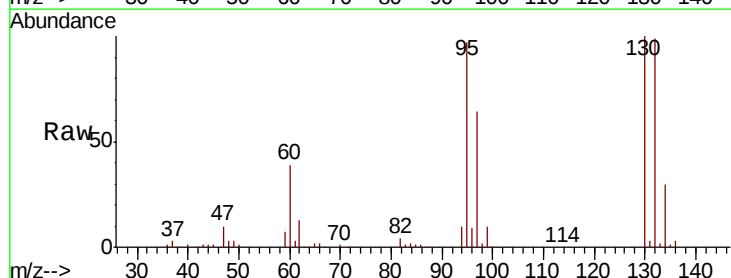
MMDadoda
 8/20/2018 10:53:04 AM

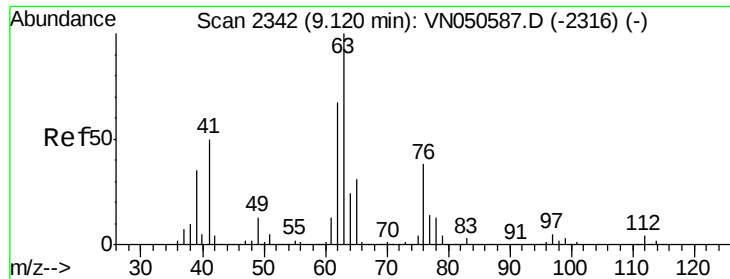


#44

Trichloroethene
 Concen: 19.24 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	193.8





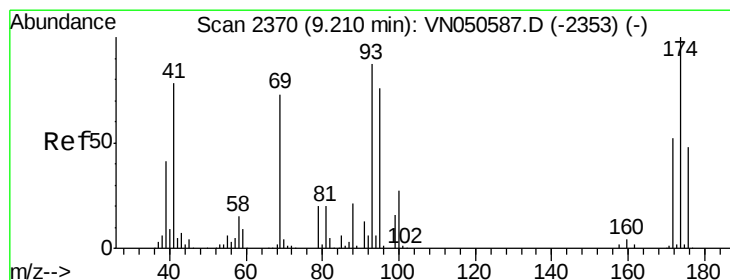
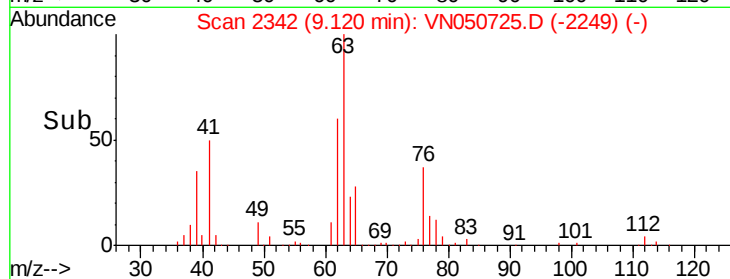
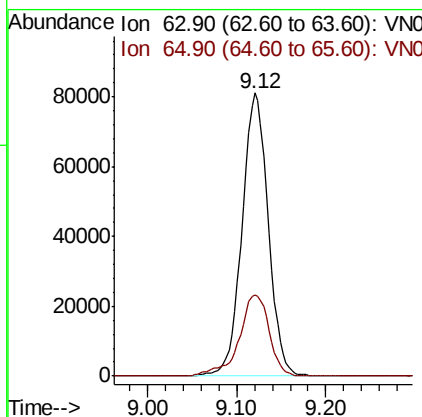
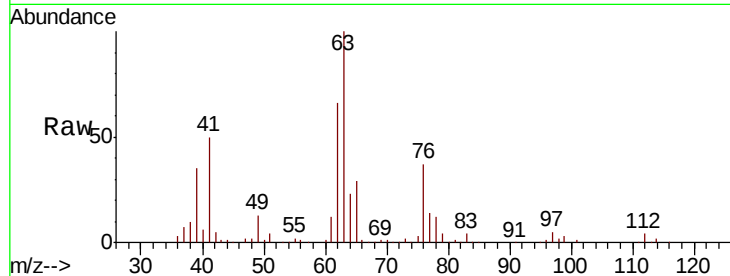
#45
 1,2-Dichloropropane
 Concen: 19.89 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.6	24.5	36.7

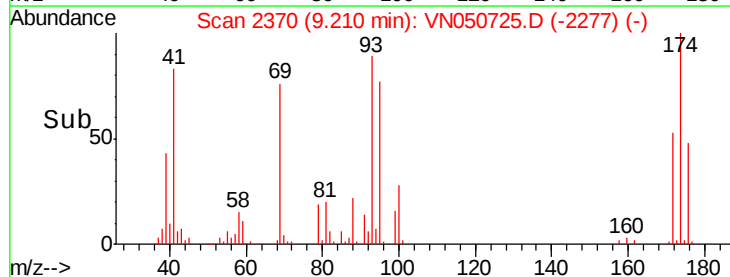
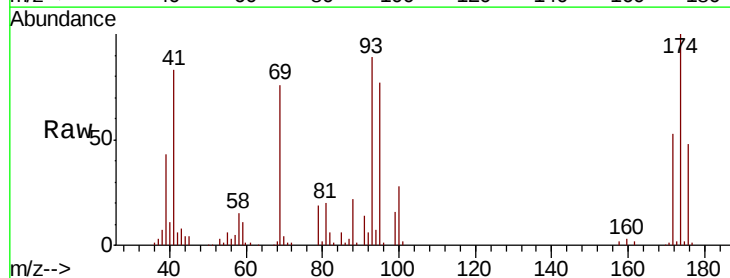
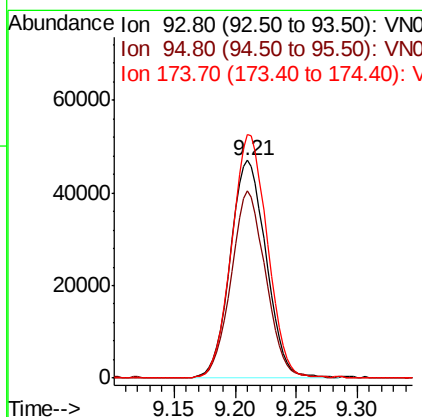
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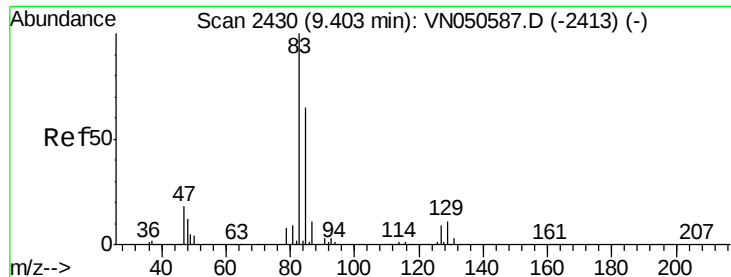
MMDadoda
 8/20/2018 10:53:04 AM



#46
 Dibromomethane
 Concen: 19.54 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.0	69.1	103.7
174	111.0	91.0	136.6





#47

Bromodichloromethane

Concen: 19.41 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

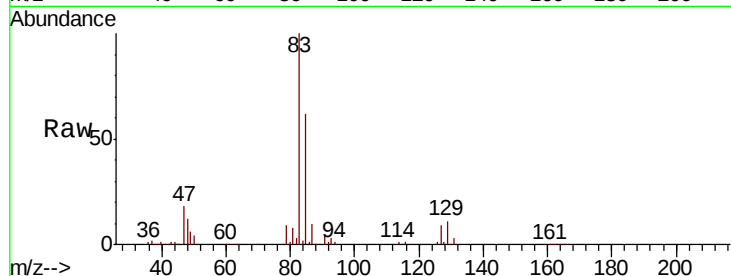
ClientSampleId :

VN0817WBSD02

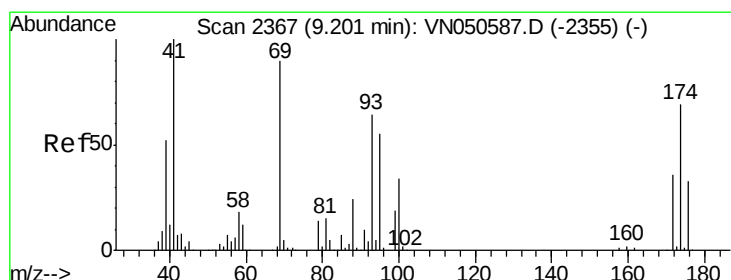
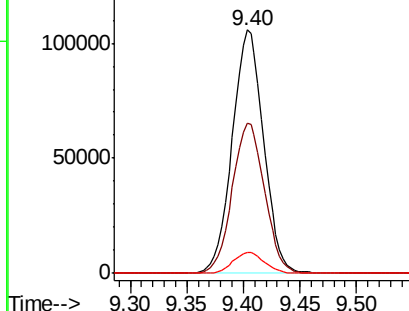
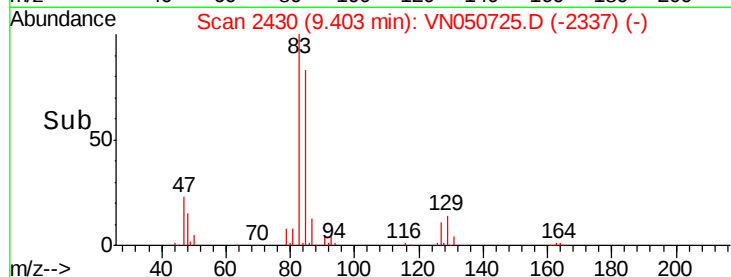
Tot Ion:	83	Resp:	204234
Ion Ratio	Lower	Upper	
83	100		
85	61.7	51.8	77.6
127	8.5	7.2	10.8

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Abundance Ion 82.90 (82.60 to 83.60): VN050725.D (-2337) (-)



#48

Methyl methacrylate

Concen: 19.56 ug/l

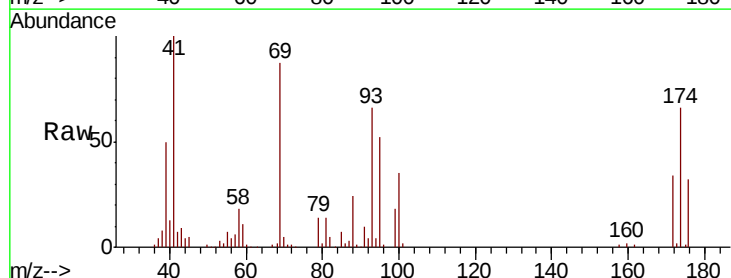
RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

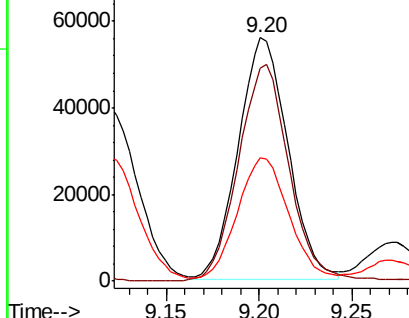
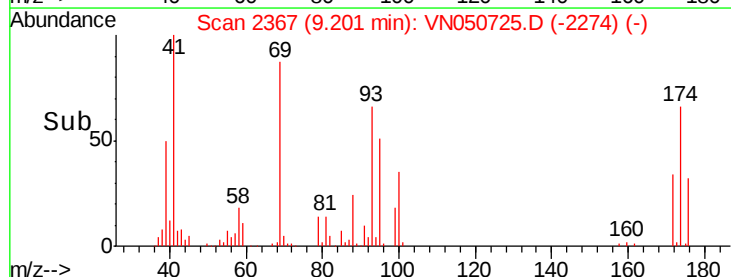
Lab File: VN050725.D

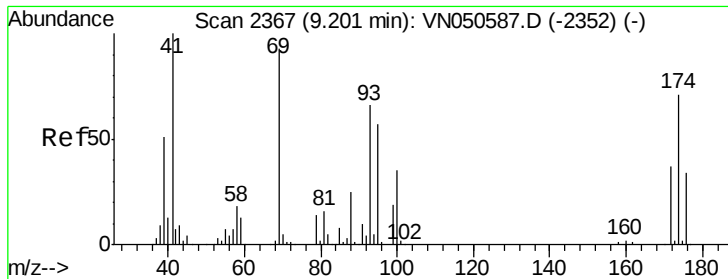
Acq: 17 Aug 2018 13:09

Tgt Ion:	41	Resp:	104367
Ion Ratio	Lower	Upper	
41	100		
69	91.6	73.4	110.0
39	52.6	43.0	64.6



Abundance Ion 41.00 (40.70 to 41.70): VN050725.D (-2274) (-)





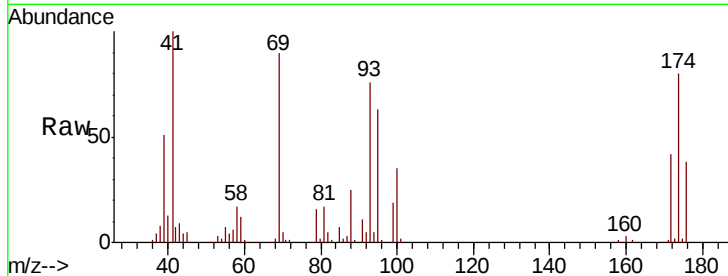
#49
1,4-Dioxane
Concen: 407.01 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

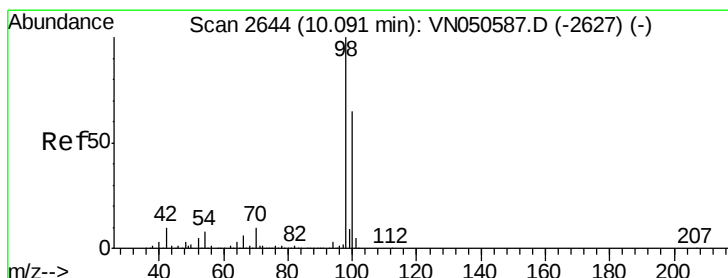
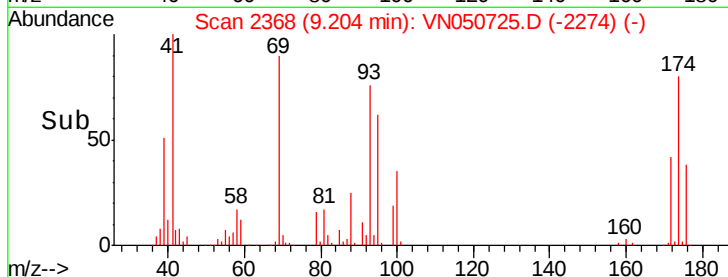
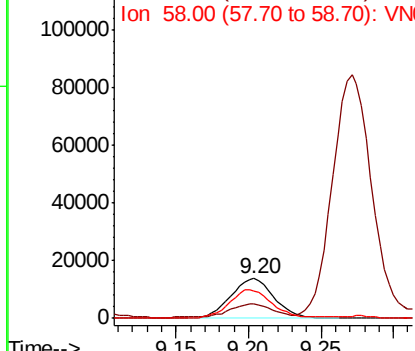
Tot Ion	88	Resp	28616
Ion Ratio	100	Lower	Upper
88	100		
43	34.3	25.9	38.9
58	71.8	56.5	84.7

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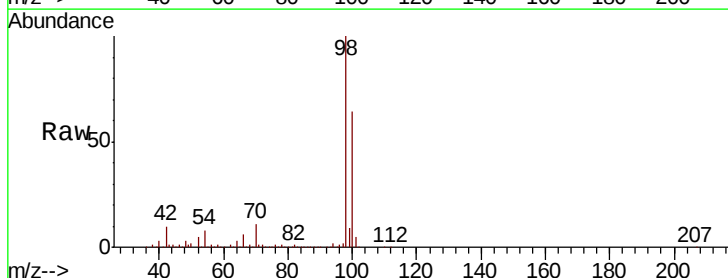


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

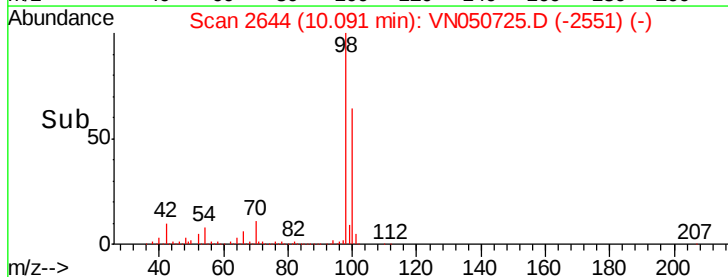
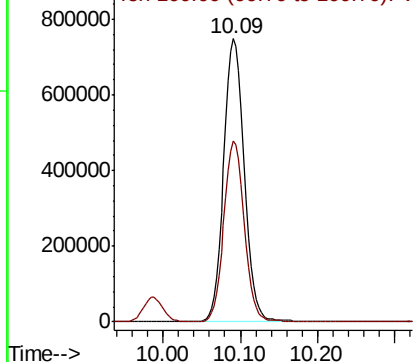


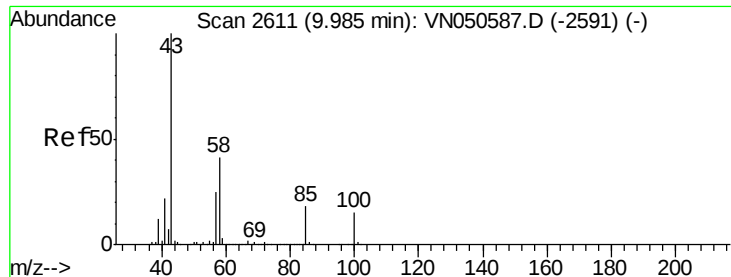
#50
Toluene-d8
Concen: 49.75 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	98	Resp	1382534
Ion Ratio	100	Lower	Upper
98	100		
100	63.5	51.8	77.8



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





#51

4-Methyl-2-Pentanone

Concen: 104.14 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 43 Resp: 746999

Ion Ratio Lower Upper

43 100

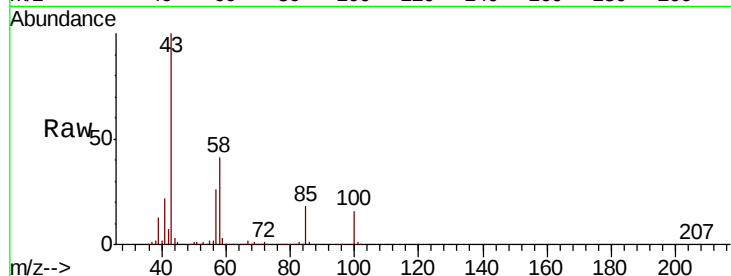
58 41.0 32.5 48.7

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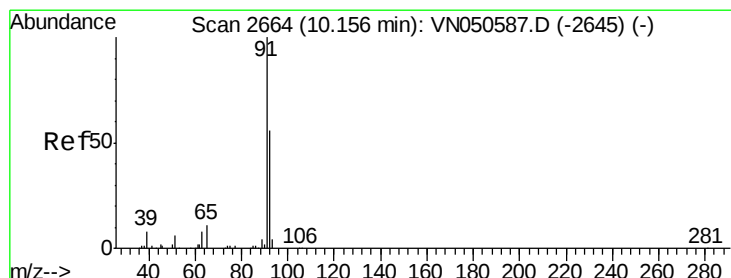
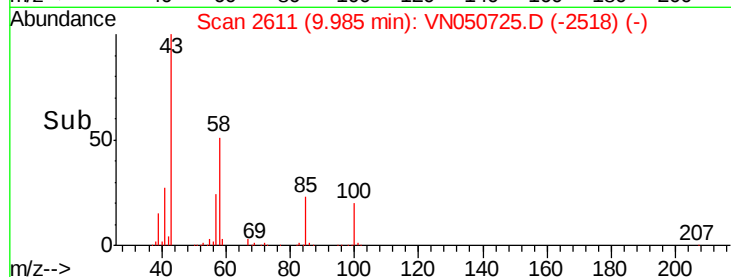
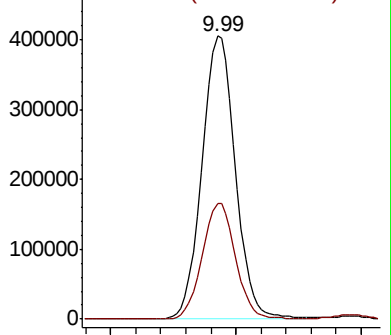
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.09 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050725.D

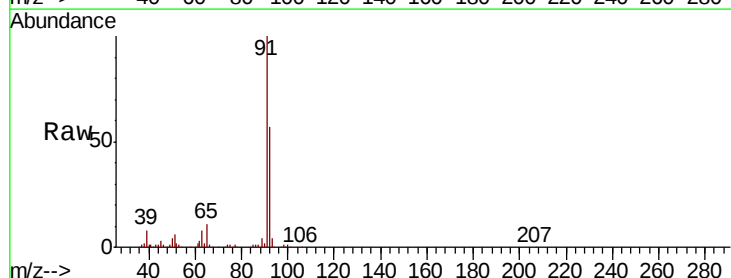
Acq: 17 Aug 2018 13:09

Tgt Ion: 92 Resp: 375774

Ion Ratio Lower Upper

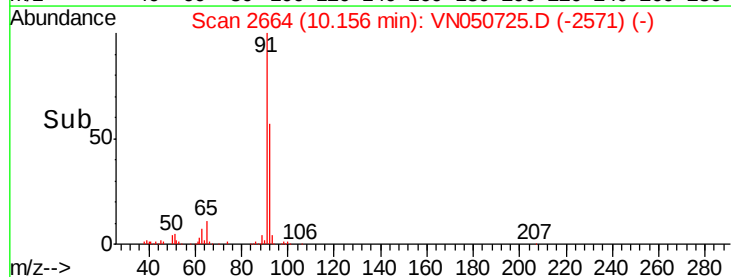
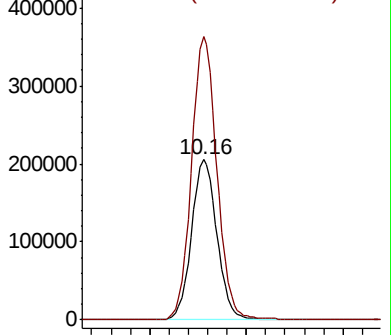
92 100

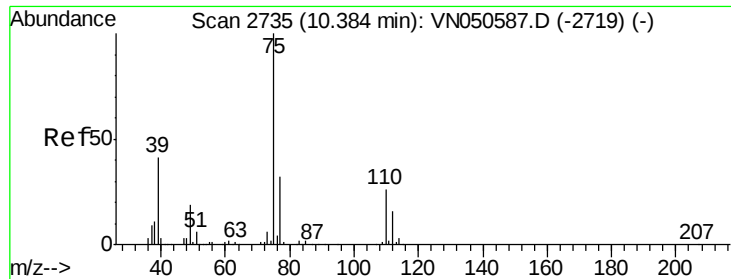
91 176.3 141.9 212.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





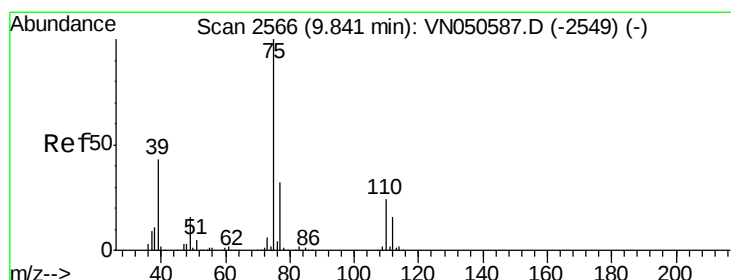
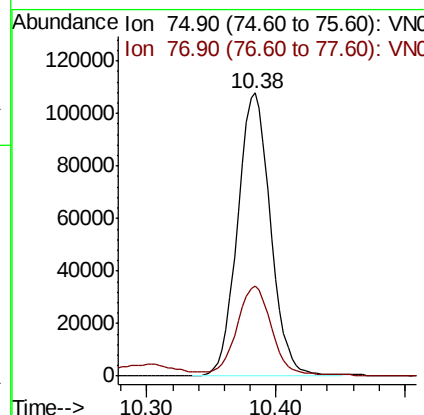
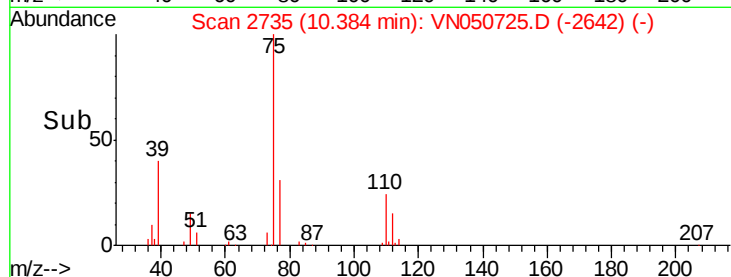
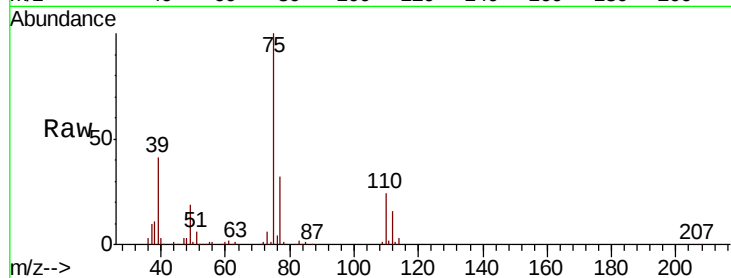
#53
t-1,3-Dichloropropene
Concen: 19.57 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion: 75 Resp: 191850
Ion Ratio Lower Upper
75 100
77 31.2 25.8 38.6

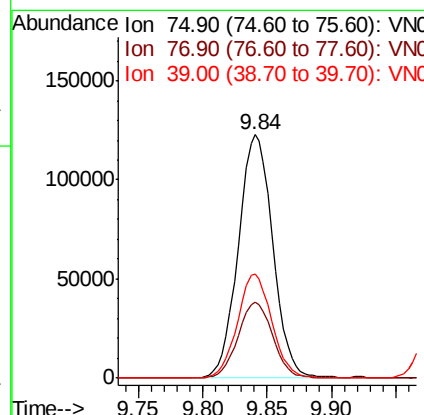
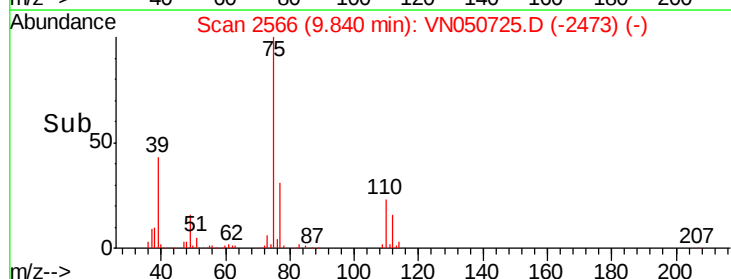
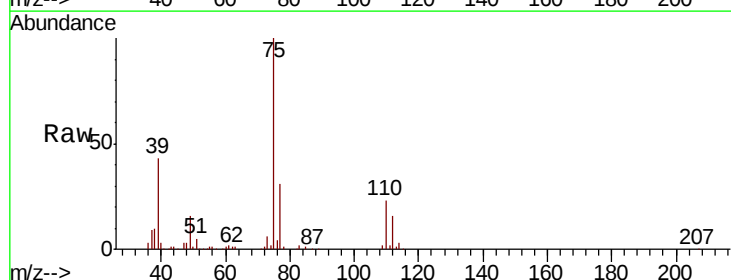
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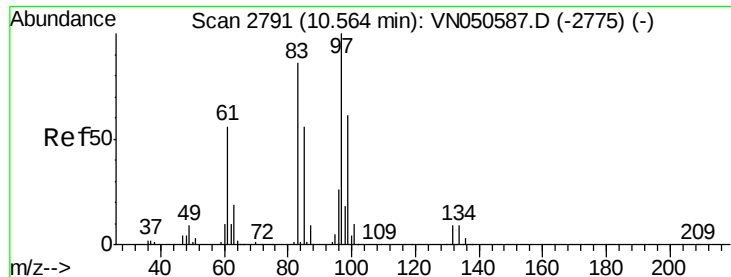
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#54
cis-1,3-Dichloropropene
Concen: 20.35 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion: 75 Resp: 228831
Ion Ratio Lower Upper
75 100
77 31.3 25.6 38.4
39 42.7 34.4 51.6





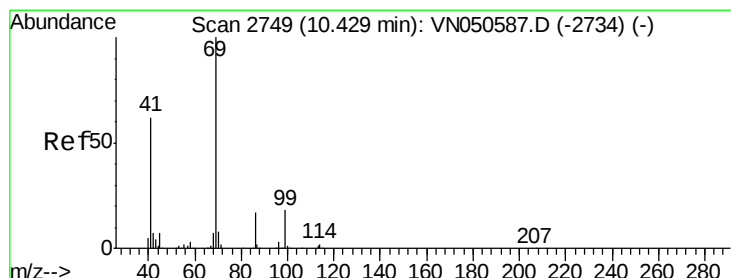
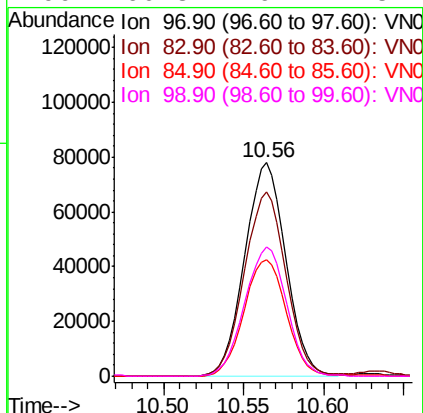
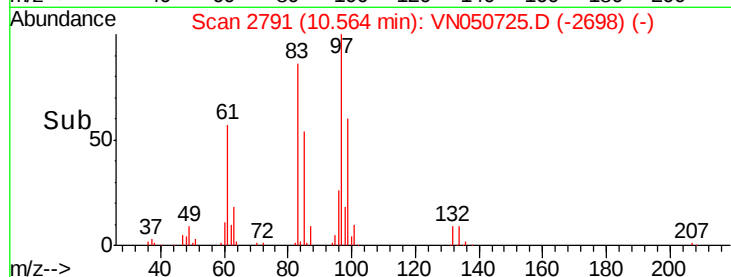
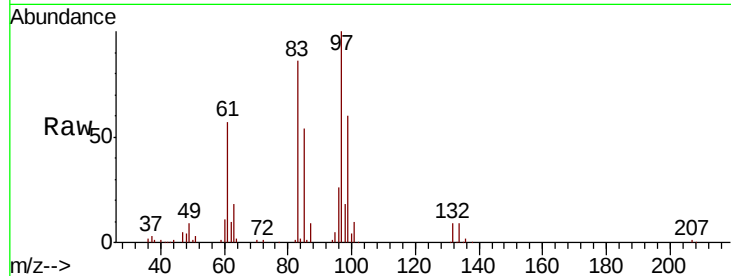
#55
 1,1,2-Trichloroethane
 Concen: 19.67 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		137442		
83	86.3	68.5	102.7		
85	54.3	44.6	66.8		
99	60.3	49.1	73.7		

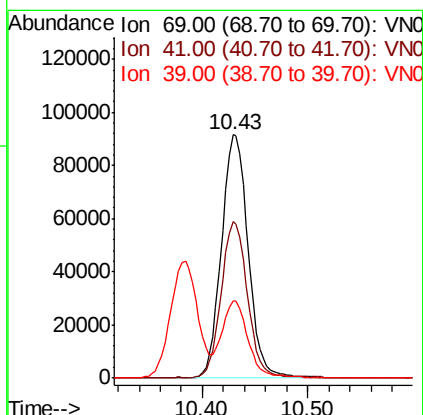
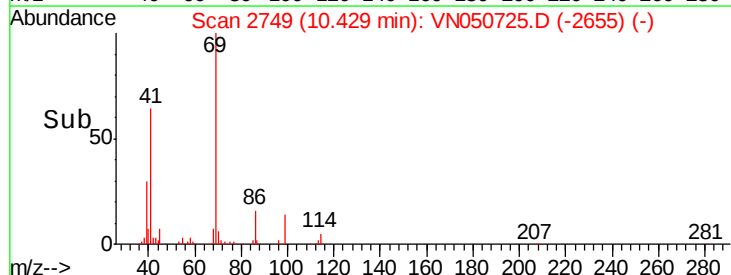
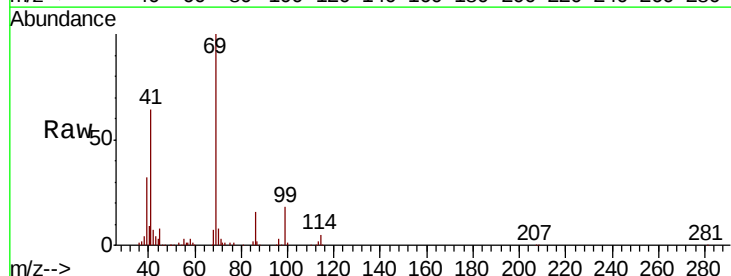
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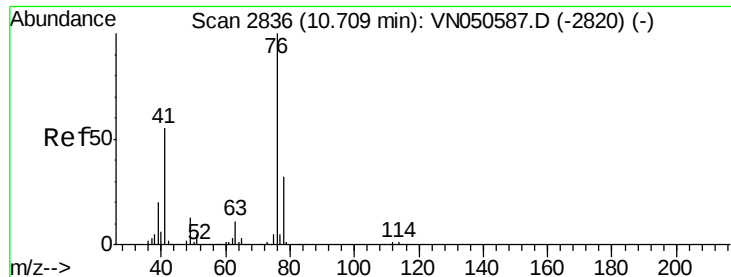
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#56
 Ethyl methacrylate
 Concen: 19.24 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		160602		
41	62.4	49.7	74.5		
39	30.7	24.2	36.2		





#57

1,3-Dichloropropane

Concen: 20.05 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 76 Resp: 229661

Ion Ratio Lower Upper

76 100

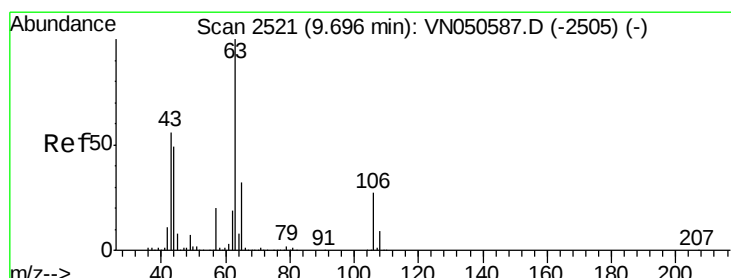
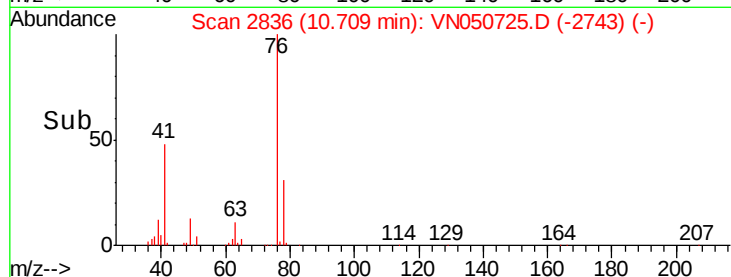
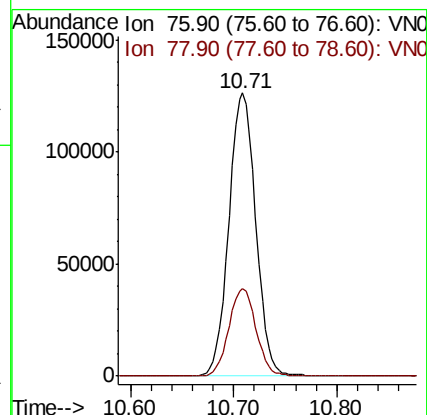
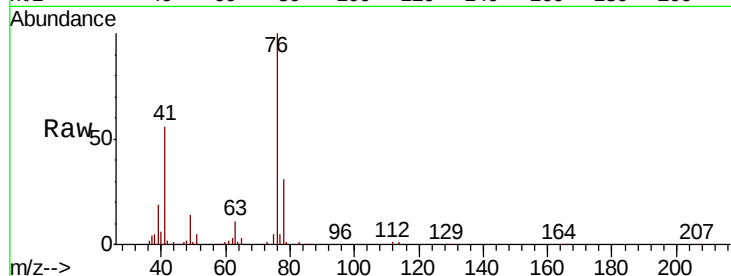
78 31.4 25.8 38.6

Manual Integrations

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8/20/2018 10:53:04 AM



#58

2-Chloroethyl Vinyl ether

Concen: 94.45 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN050725.D

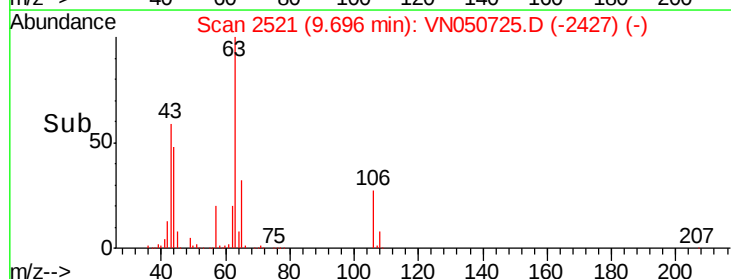
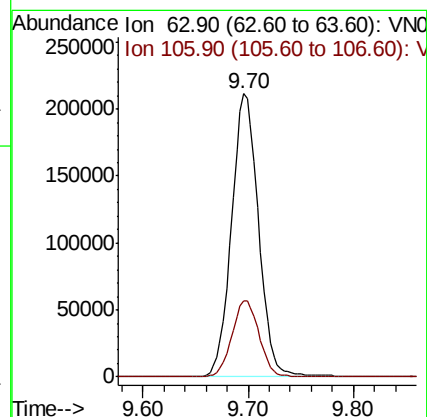
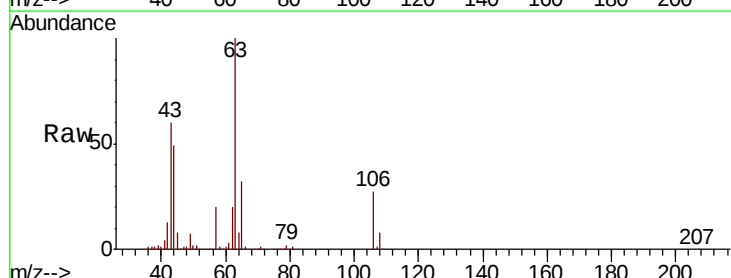
Acq: 17 Aug 2018 13:09

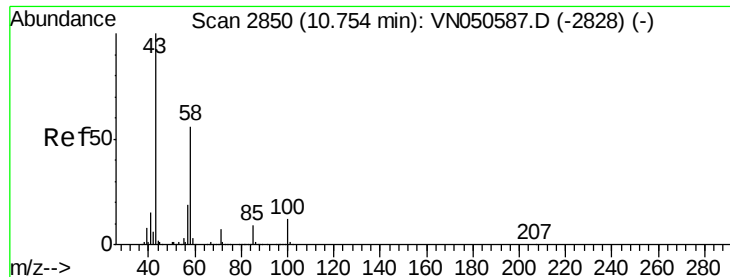
Tgt Ion: 63 Resp: 374339

Ion Ratio Lower Upper

63 100

106 27.3 21.7 32.5





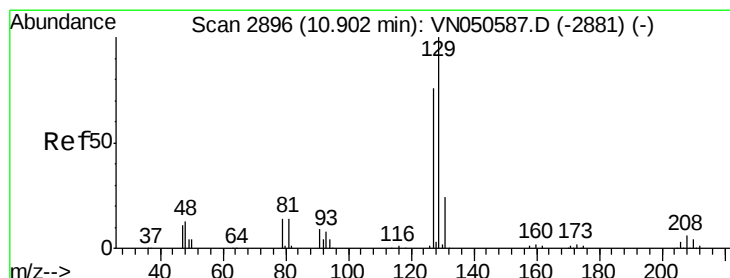
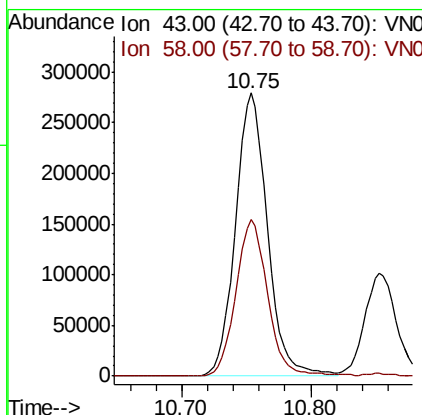
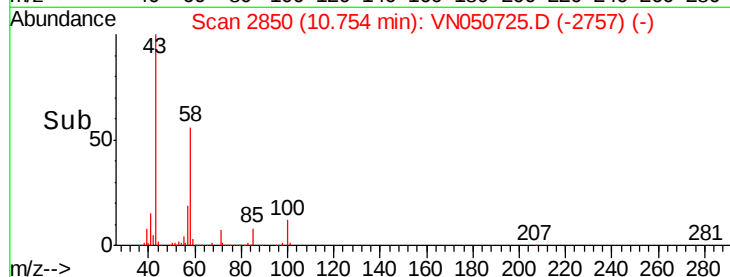
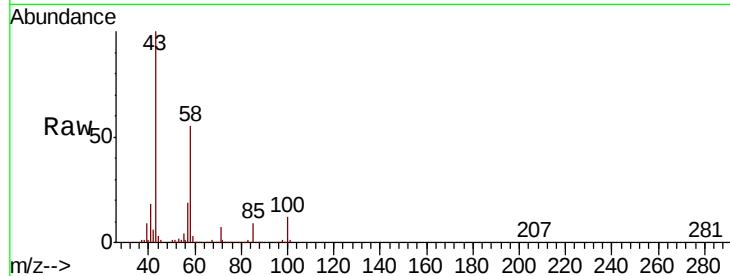
#59
2-Hexanone
Concen: 103.58 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.2	28.0	84.0

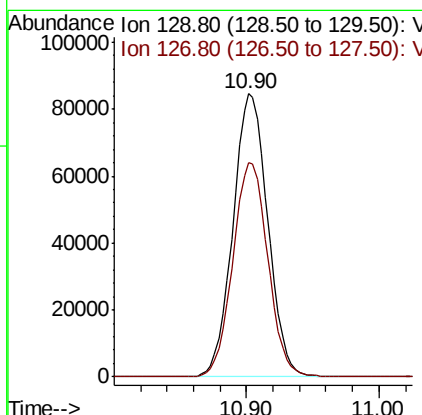
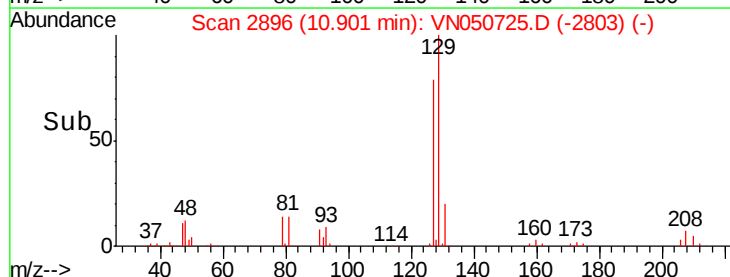
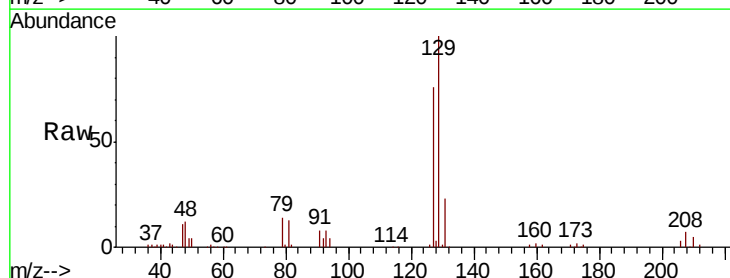
Manual Integrations
APPROVED

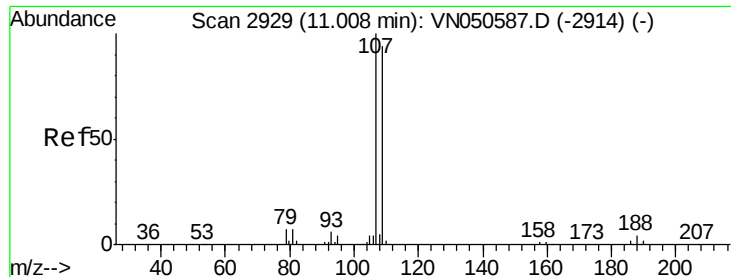
MMDadoda
8/20/2018 10:53:04 AM



#60
Dibromochloromethane
Concen: 19.98 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.9	116.7





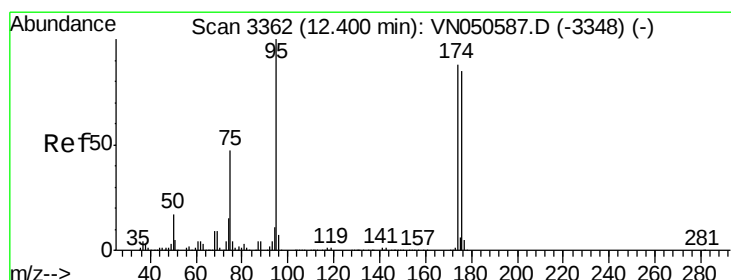
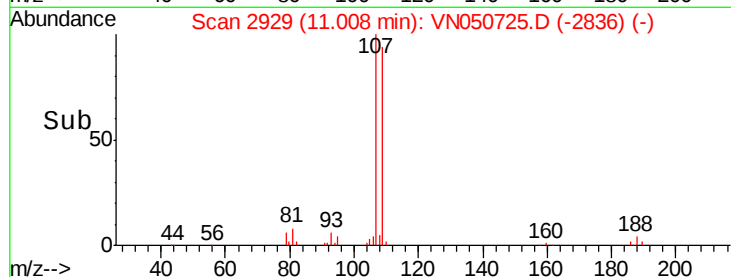
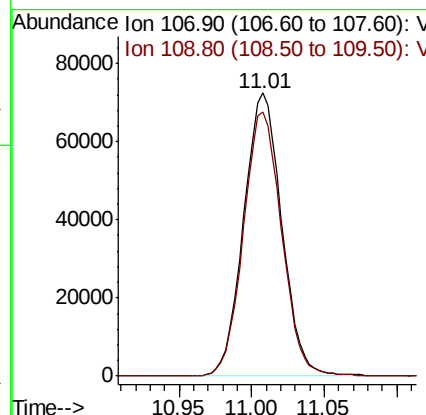
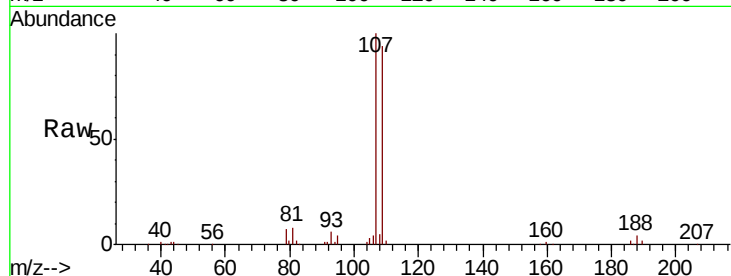
#61
 1,2-Dibromoethane
 Concen: 19.86 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.7	113.5

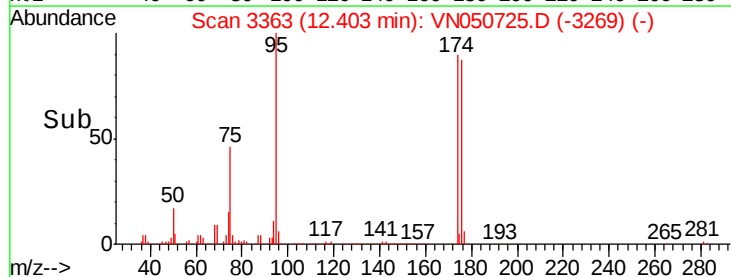
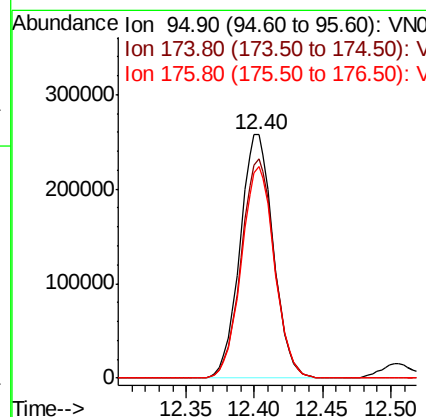
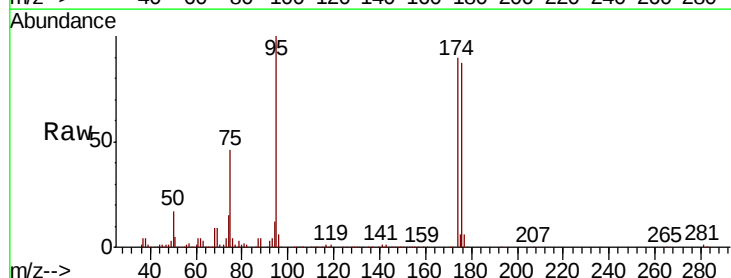
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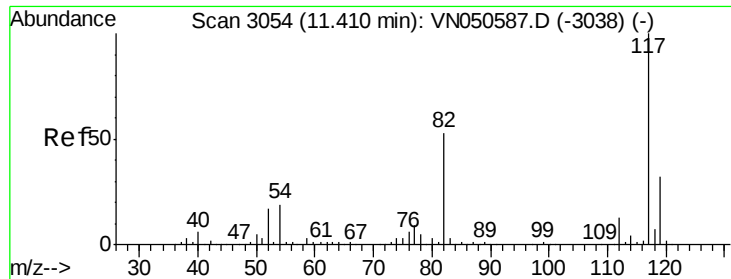
MMDadoda
 8/20/2018 10:53:04 AM



#62
 4-Bromofluorobenzene
 Concen: 47.42 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.8	0.0	177.8
176	86.7	0.0	175.0





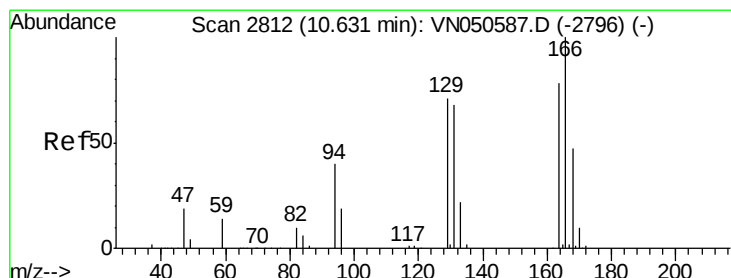
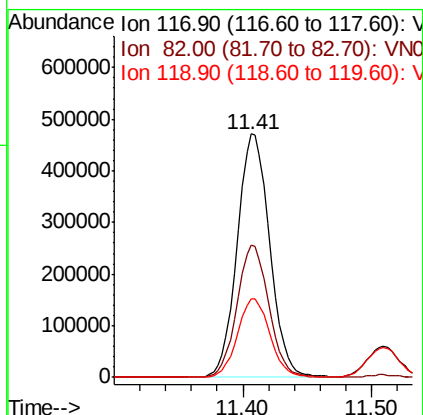
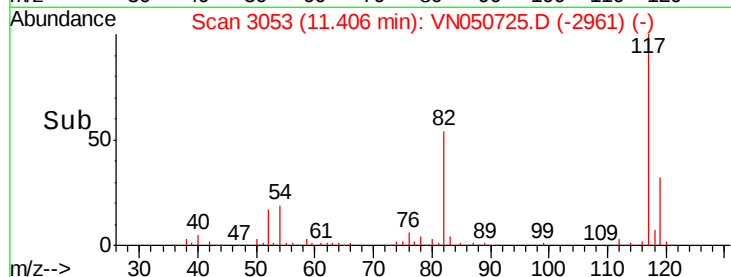
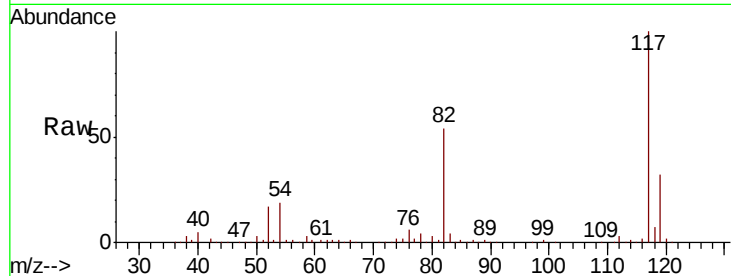
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	42.4	63.6
119	32.3	25.8	38.8

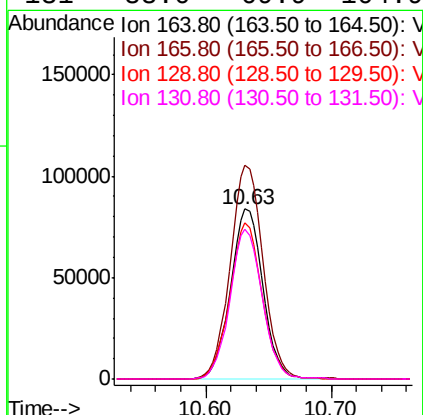
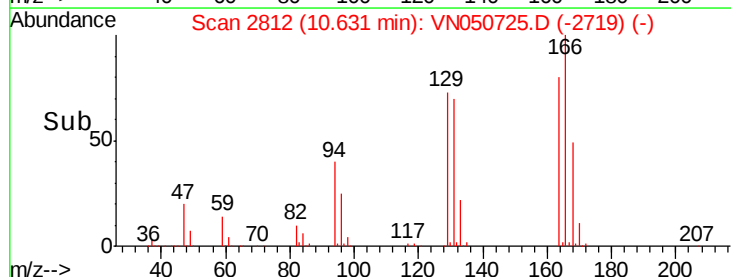
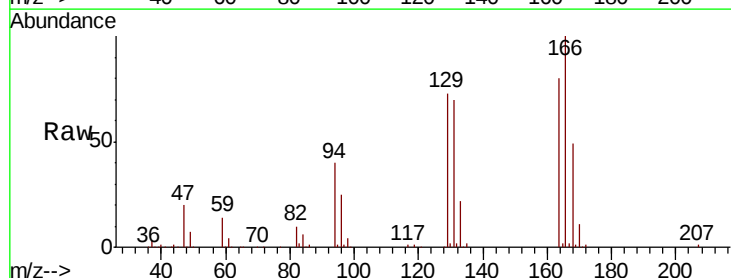
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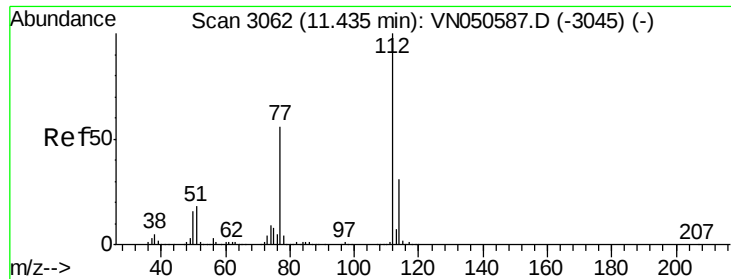
MMDadoda
8/20/2018 10:53:04 AM



#64
Tetrachloroethene
Concen: 19.55 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.7	102.1	153.1
129	91.7	72.7	109.1
131	88.0	69.9	104.9





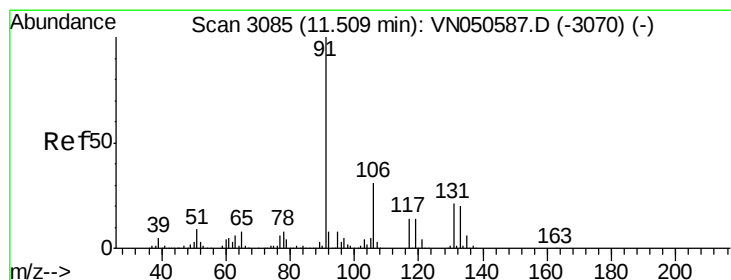
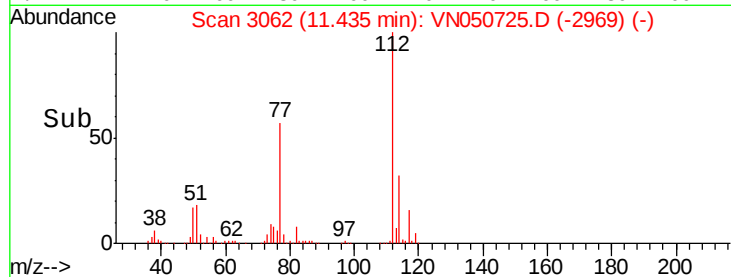
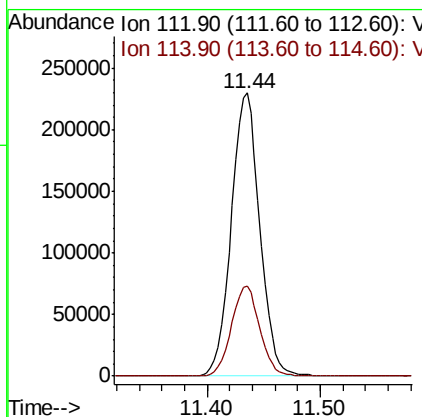
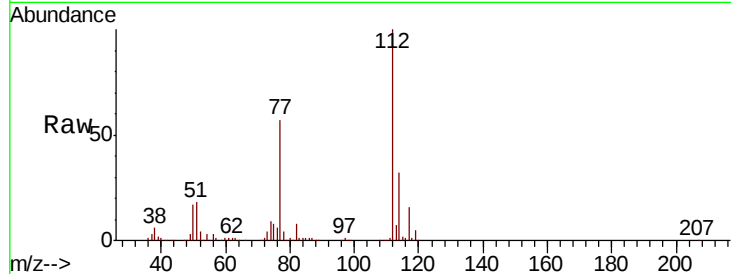
#65
Chlorobenzene
Concen: 19.53 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.2	37.8

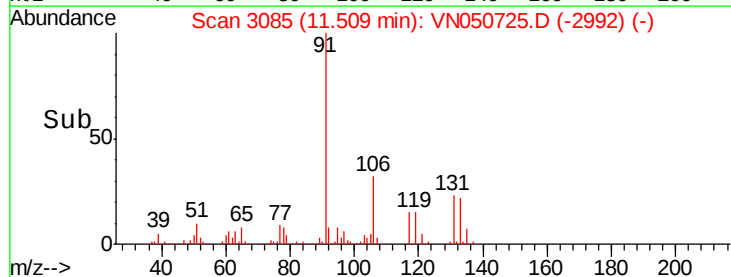
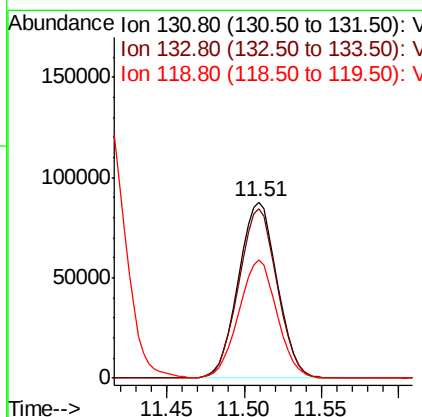
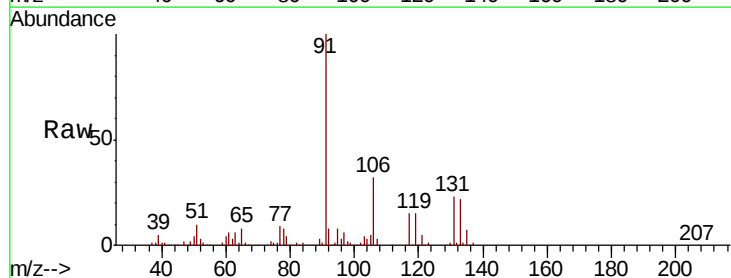
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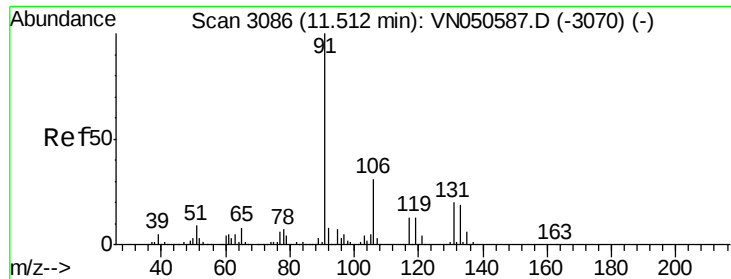
MMDadoda
8/20/2018 10:53:04 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.78 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.8	47.6	142.9
119	66.3	33.1	99.3





#67

Ethyl Benzene

Concen: 19.79 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampled :

VN0817WBSD02

Tot Ion: 91 Resp: 658253

Ion Ratio Lower Upper

91 100

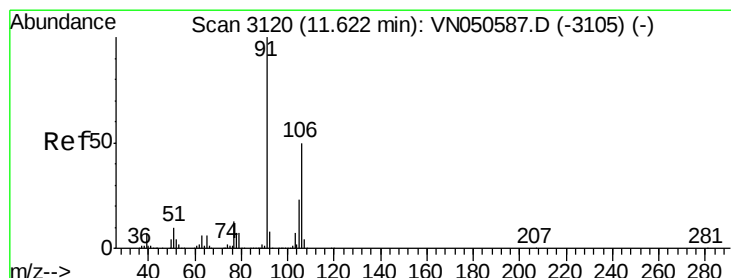
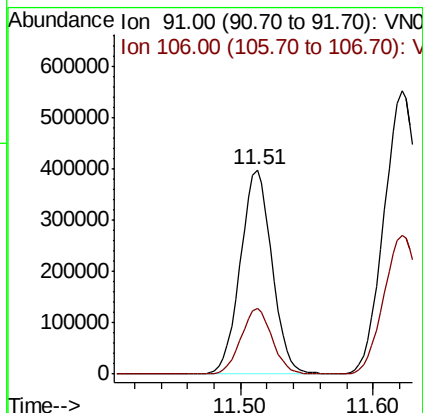
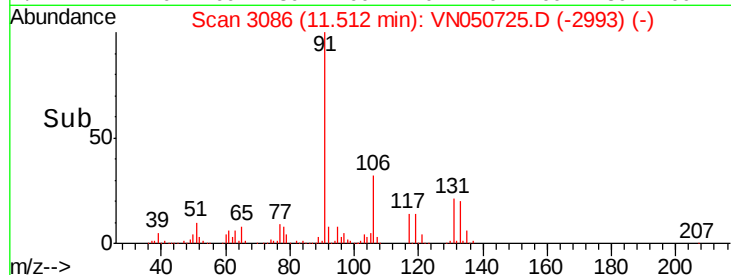
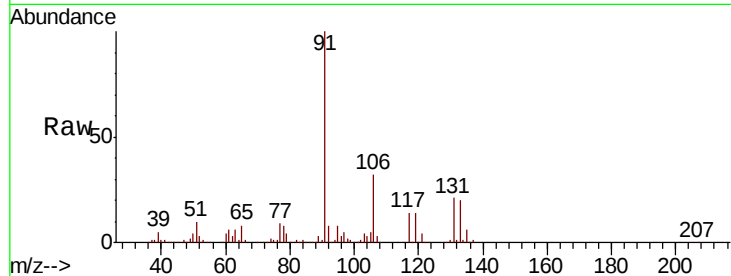
106 32.0 24.8 37.2

Manual Integrations

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8/20/2018 10:53:04 AM



#68

m/p-Xylenes

Concen: 40.69 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN050725.D

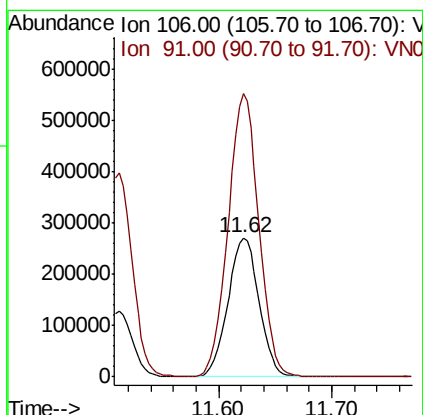
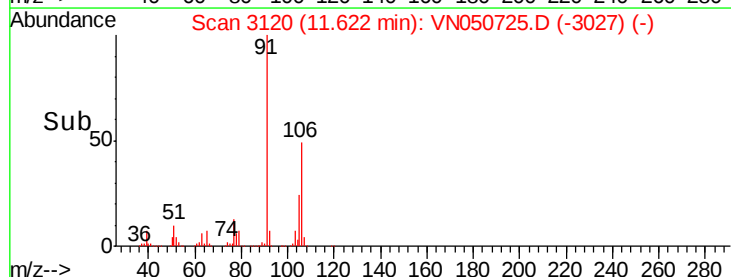
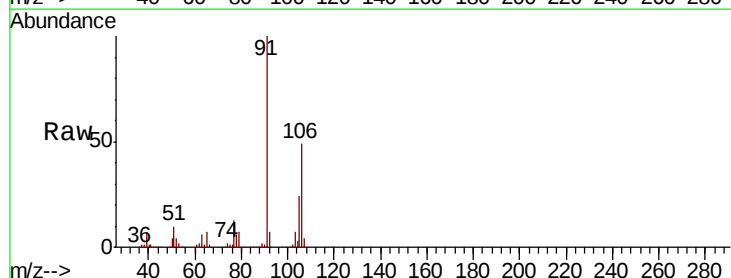
Acq: 17 Aug 2018 13:09

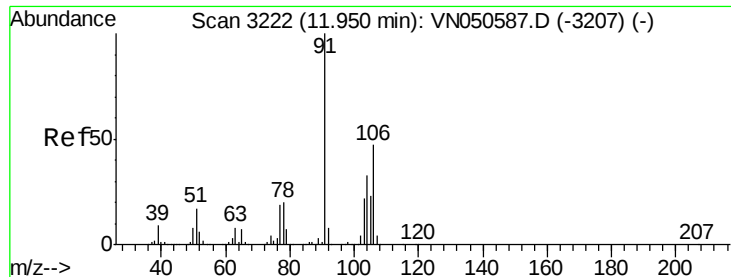
Tgt Ion: 106 Resp: 517604

Ion Ratio Lower Upper

106 100

91 200.6 161.5 242.3





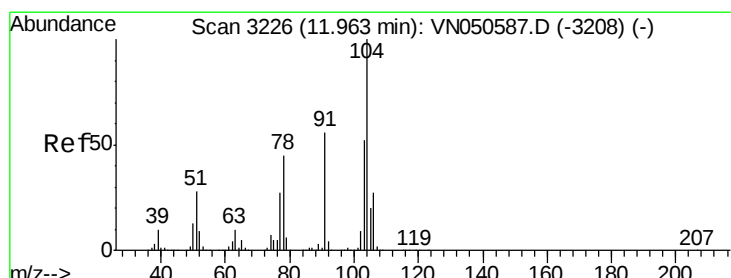
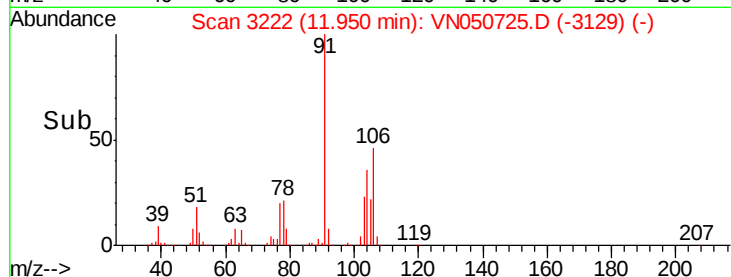
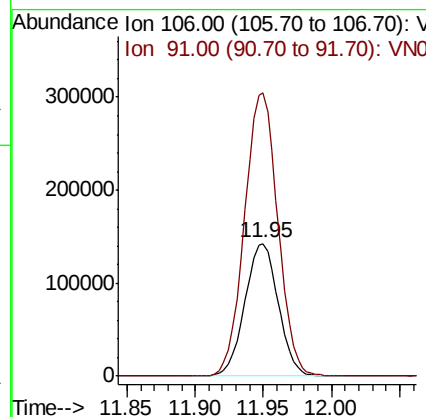
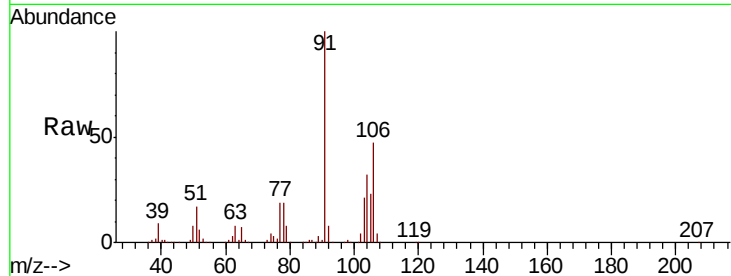
#69
o-Xylene
Concen: 19.97 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.6	106.8	320.4

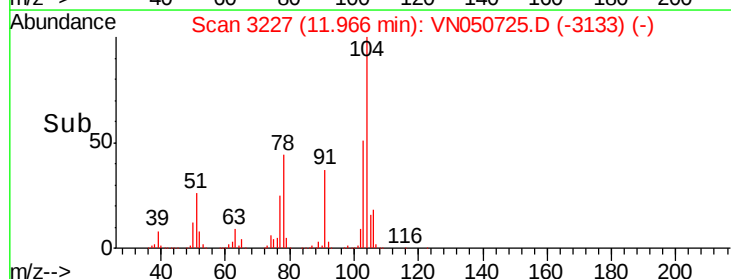
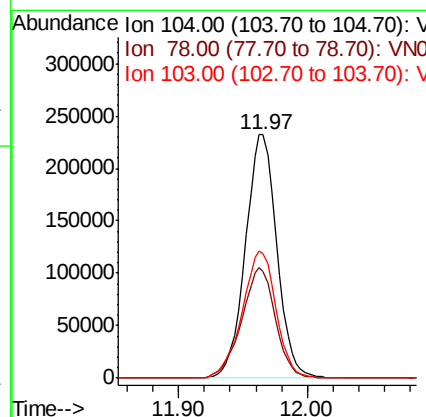
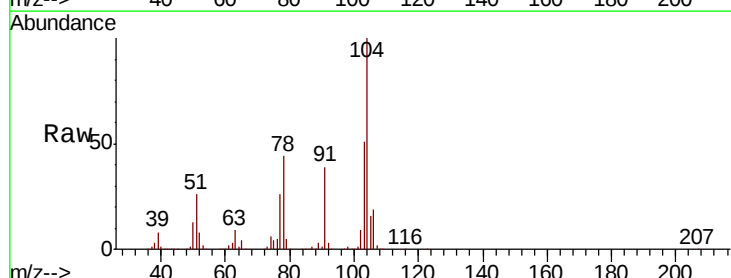
Manual Integrations
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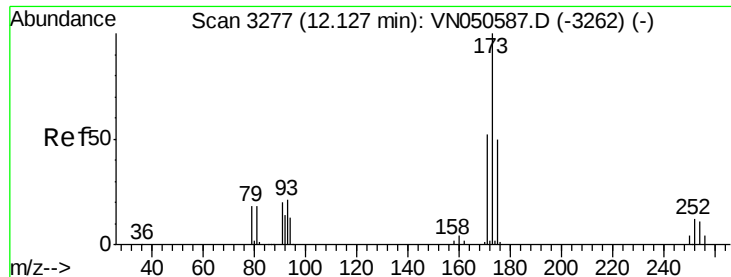
MMDadoda
8/20/2018 10:53:04 AM



#70
Styrene
Concen: 18.85 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.9	39.1	58.7
103	56.2	44.9	67.3





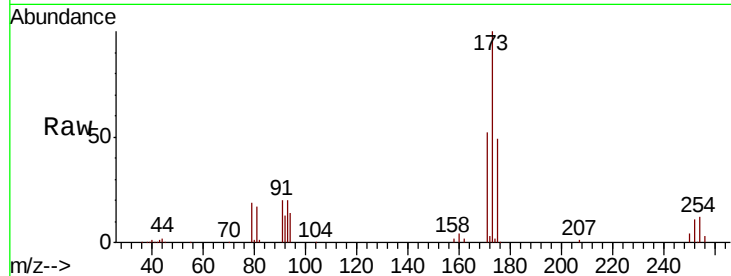
#71
Bromoform
Concen: 19.67 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

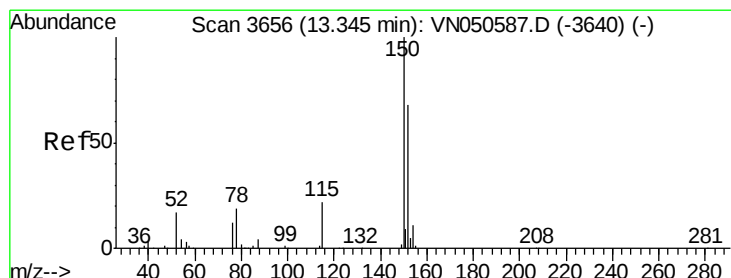
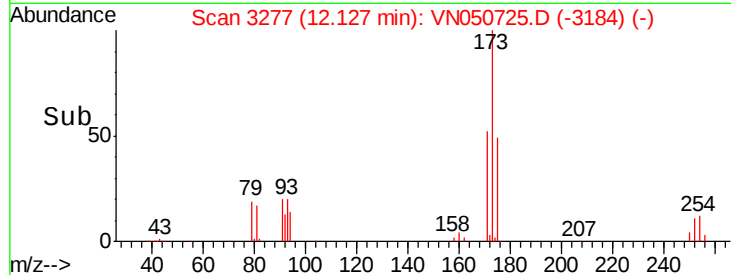
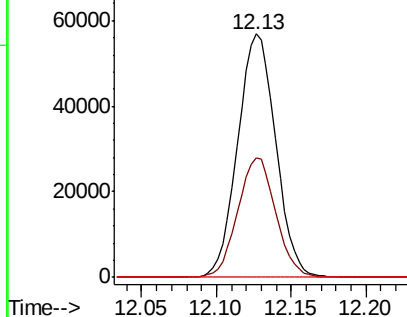
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.4	73.2
254	0.0	0.0	0.0

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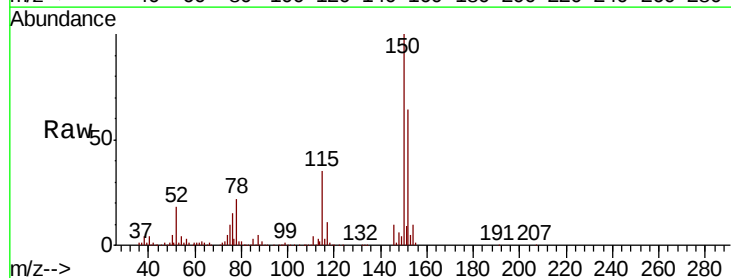


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

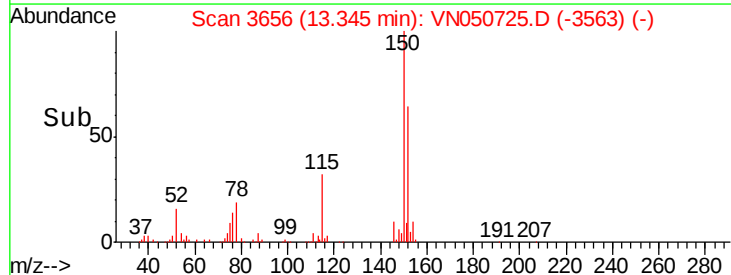
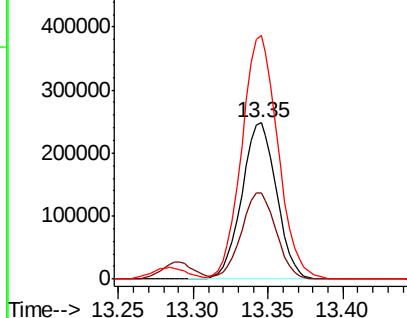


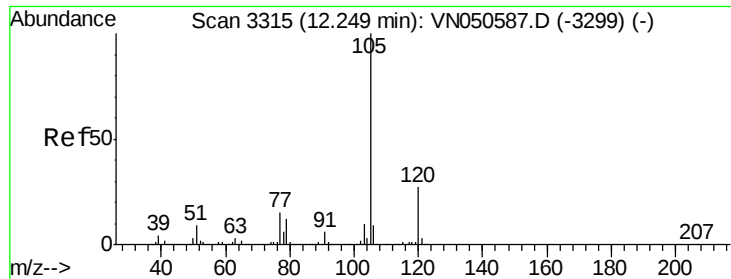
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	28.1	84.2
150	163.2	0.0	347.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.78 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion:105 Resp: 648242

Ion Ratio Lower Upper

105 100

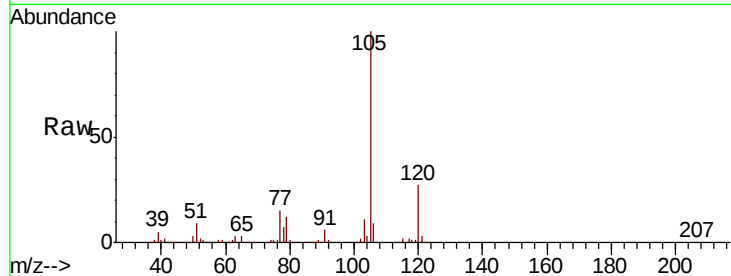
120 27.1 13.4 40.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

400000

300000

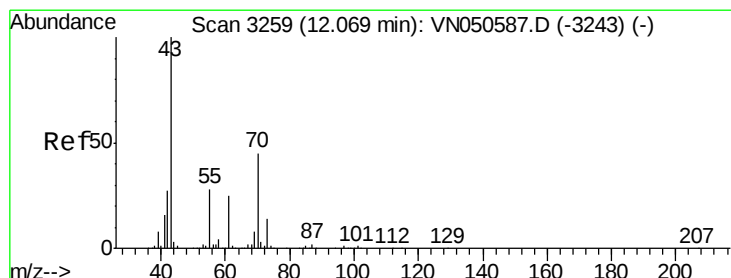
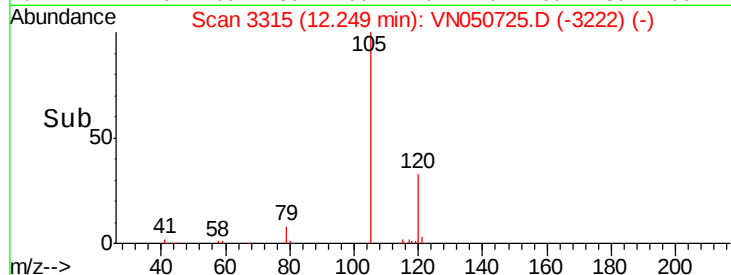
200000

100000

0

Time-->

12.20 12.30



#74

N-ethyl acetate

Concen: 20.19 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Tgt Ion: 43 Resp: 163932

Ion Ratio Lower Upper

43 100

70 44.3 35.9 53.9

55 27.3 22.2 33.4

61 24.4 20.0 30.0

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

150000

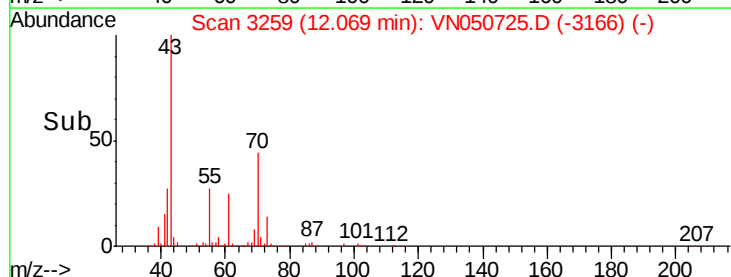
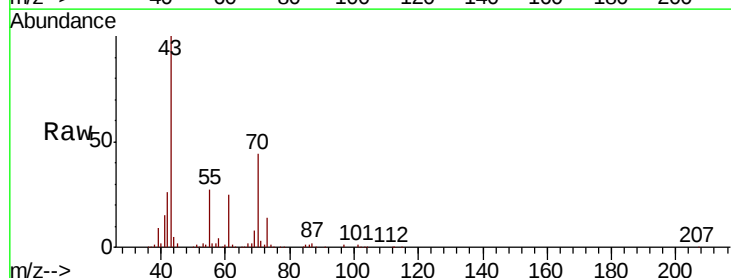
100000

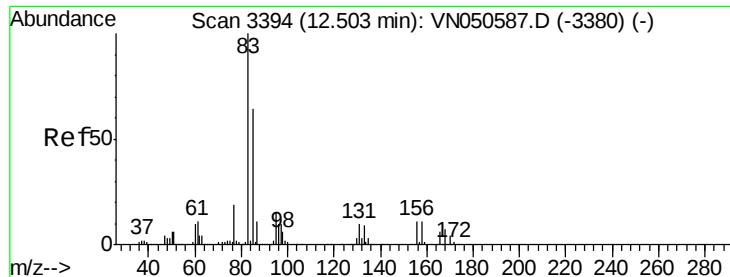
50000

0

Time-->

12.00 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 22.03 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

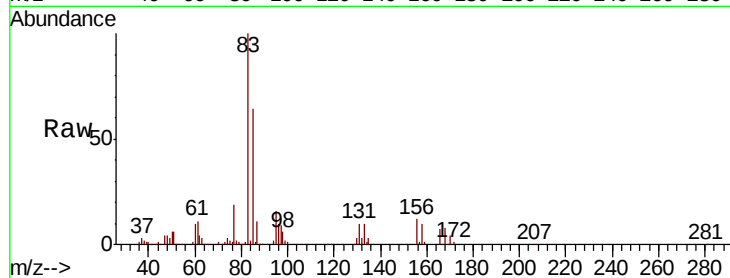
ClientSampled :

VN0817WBSD02

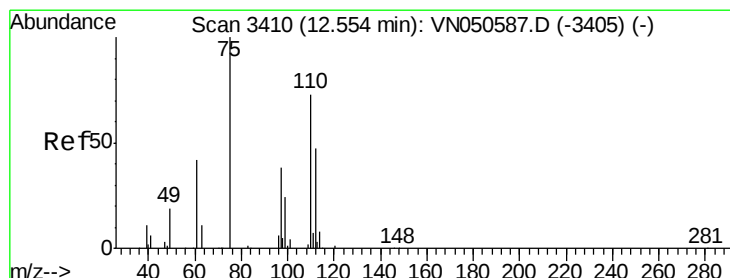
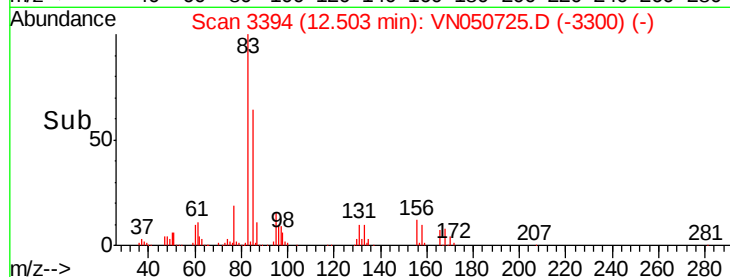
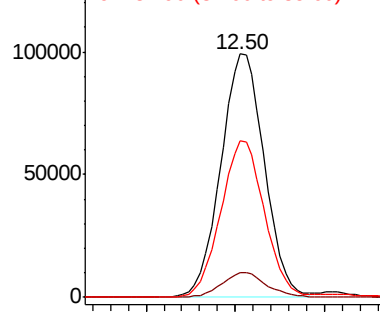
Tot Ion	83	Resp	169021
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.3	15.9
85	64.4	32.1	96.5

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Abundance Ion 82.90 (82.60 to 83.60): VN050725.D (-3300) (-)



#76

1,2,3-Trichloropropane

Concen: 20.47 ug/l m

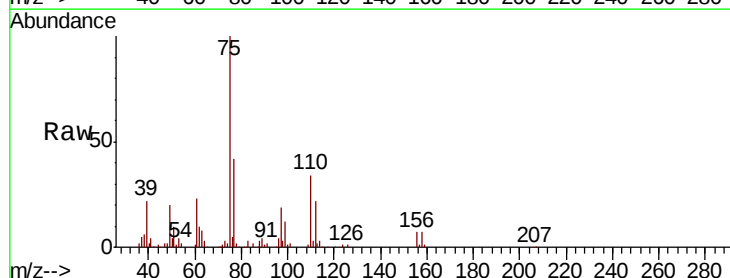
RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

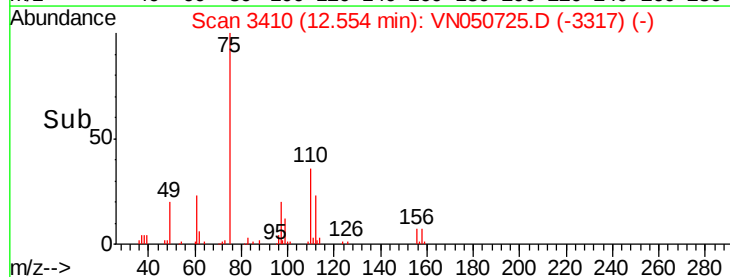
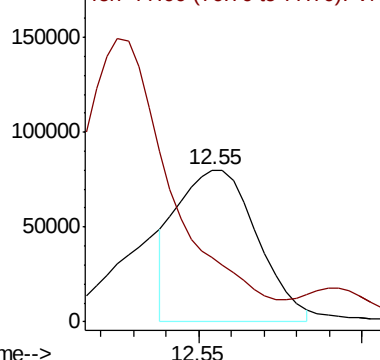
Lab File: VN050725.D

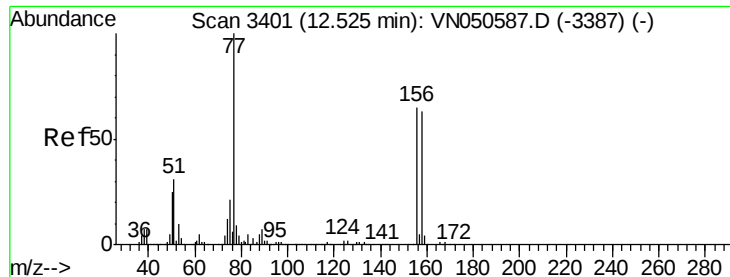
Acq: 17 Aug 2018 13:09

Tgt Ion	75	Resp	136006
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050725.D (-3317) (-)





#77

Bromobenzene

Concen: 19.77 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

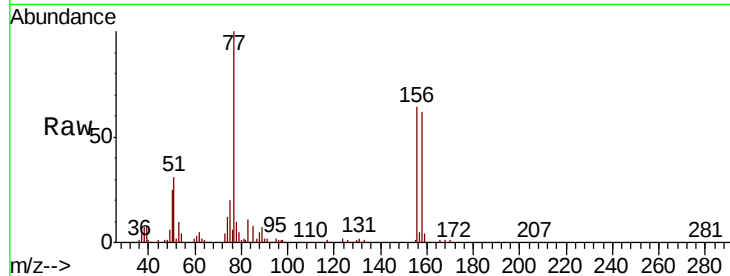
ClientSampleId :

VN0817WBSD02

Tot Ion:	156	Resp:	167511
Ion Ratio	Lower	Upper	
156	100		
77	180.2	89.0	267.1
158	97.4	48.5	145.6

Manual Integrations
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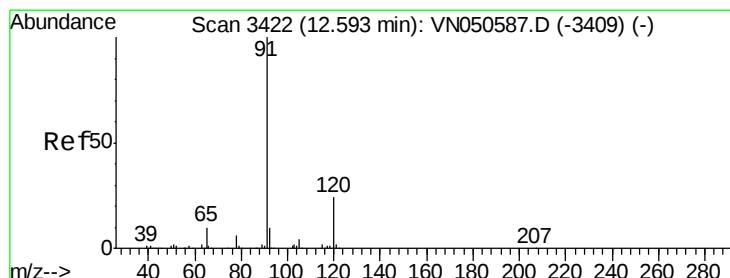
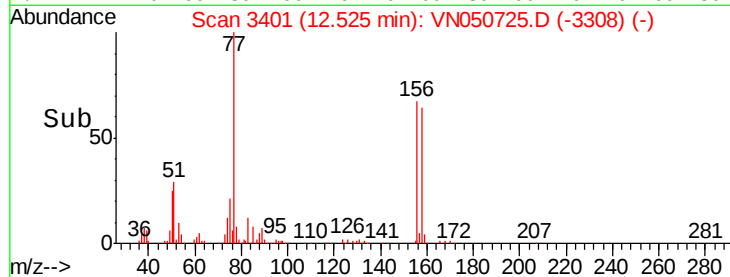
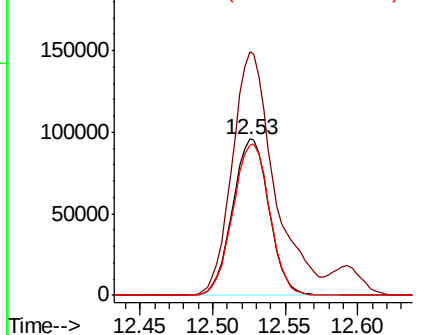
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.96 ug/l

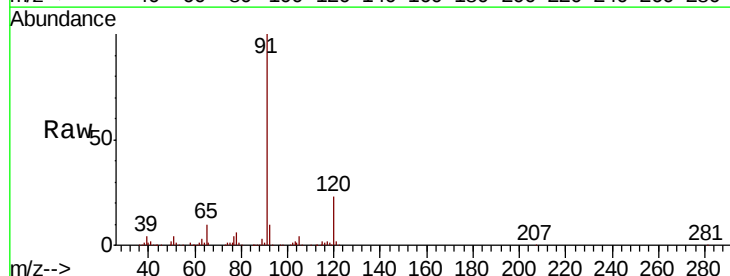
RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN050725.D

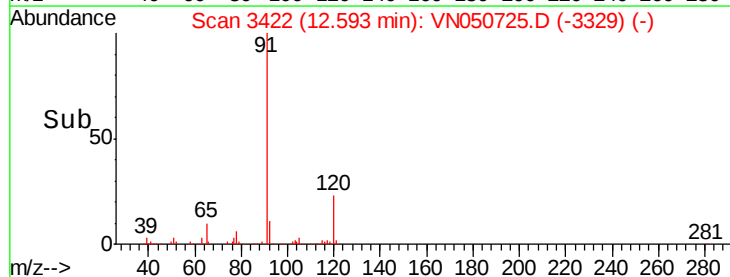
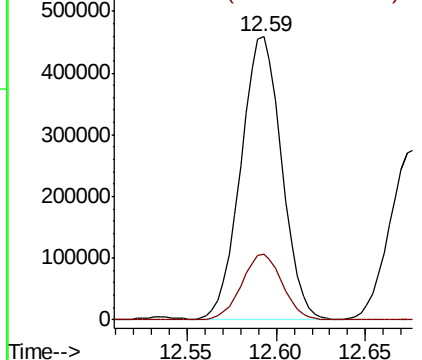
Acq: 17 Aug 2018 13:09

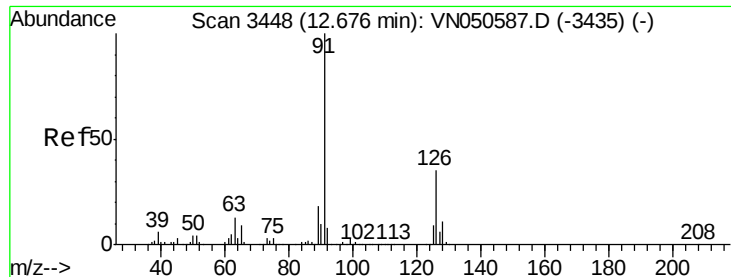
Tgt Ion:	91	Resp:	729252
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.8	35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.69 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampled :

VN0817WBSD02

Tot Ion: 91 Resp: 448806

Ion Ratio Lower Upper

91 100

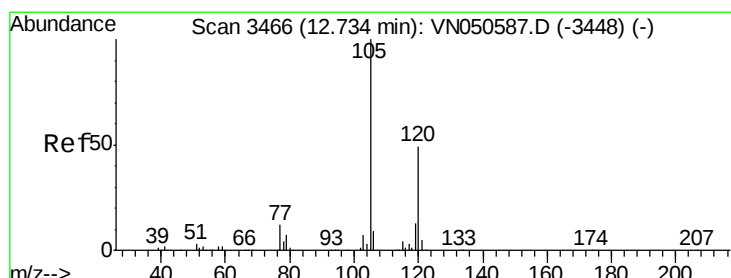
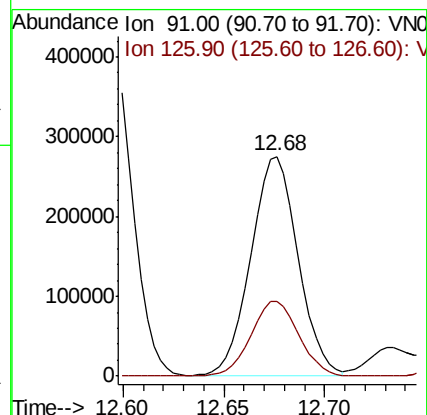
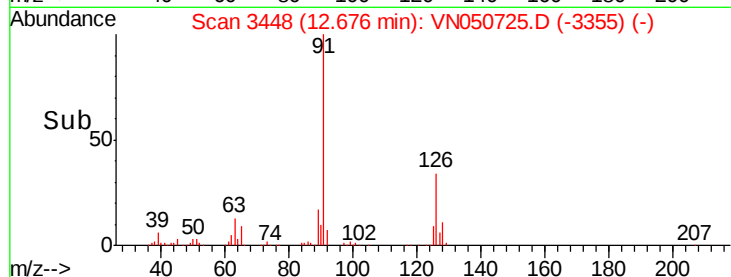
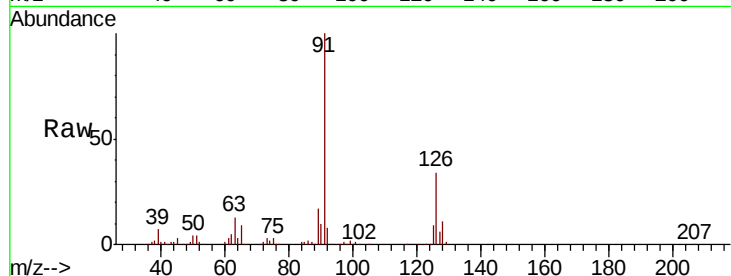
126 34.8 17.6 52.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.23 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050725.D

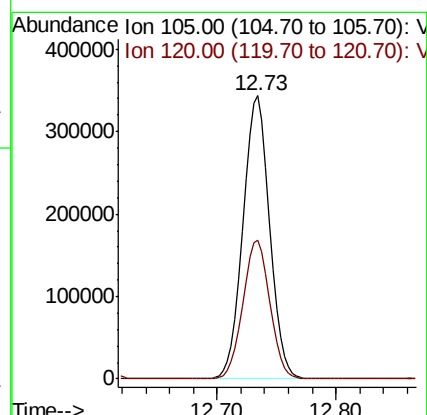
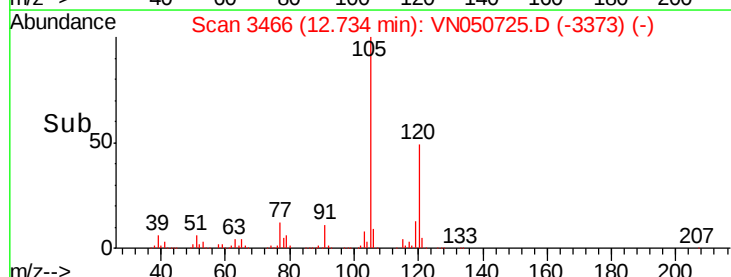
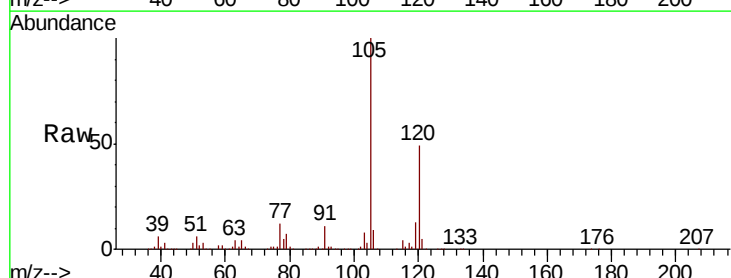
Acq: 17 Aug 2018 13:09

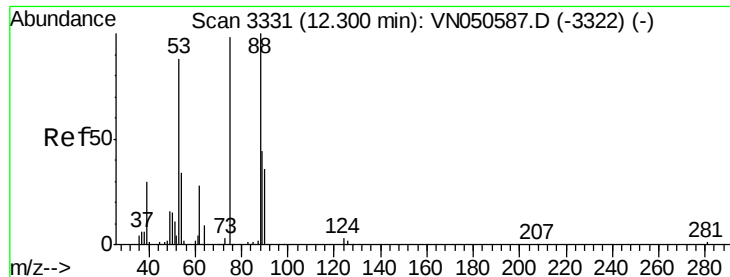
Tgt Ion: 105 Resp: 530373

Ion Ratio Lower Upper

105 100

120 49.7 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 21.67 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBSD02

Tot Ion: 75 Resp: 38922

Ion Ratio Lower Upper

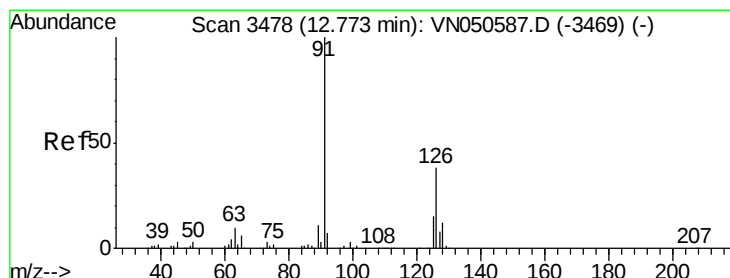
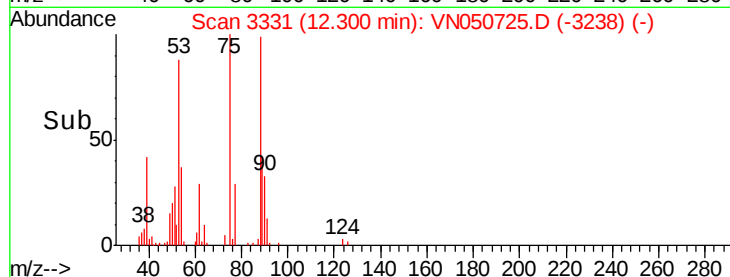
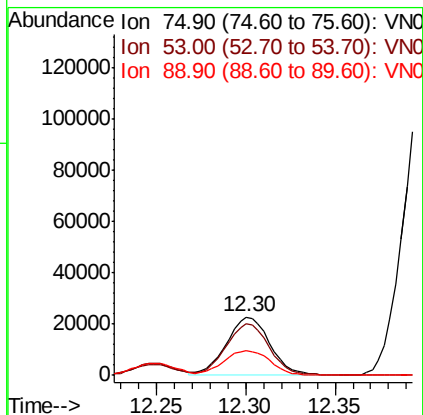
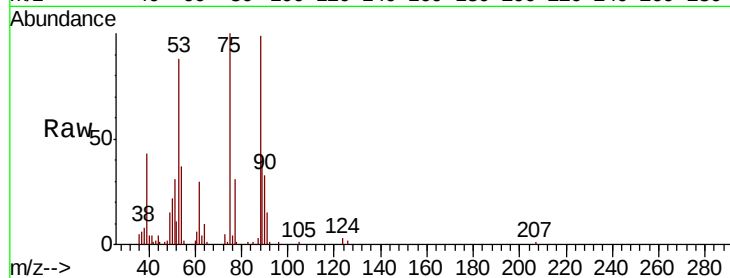
75 100

53 87.4 72.2 108.2

89 44.5 36.3 54.5

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.68 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. -0.00 min

Lab File: VN050725.D

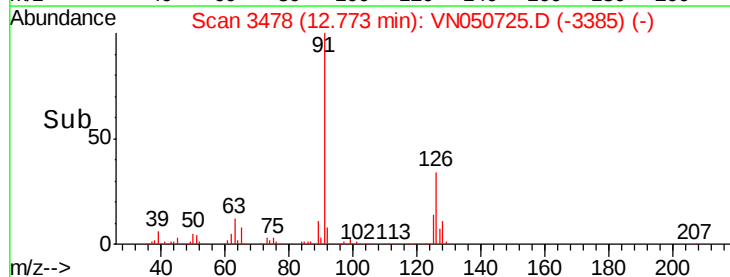
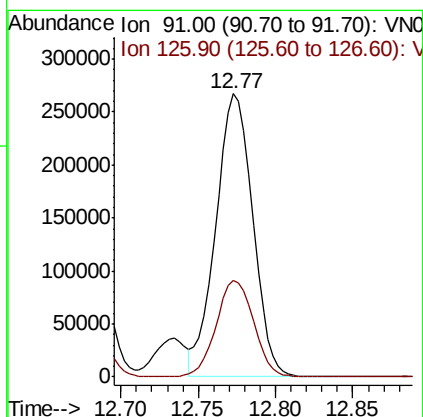
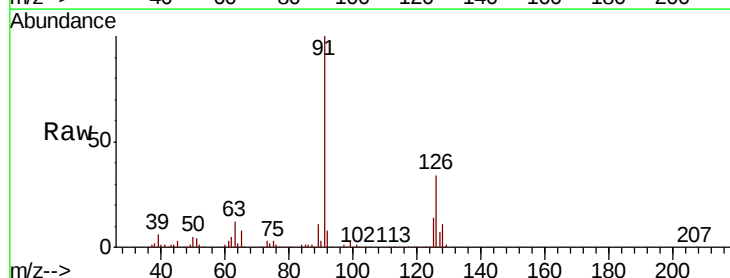
Acq: 17 Aug 2018 13:09

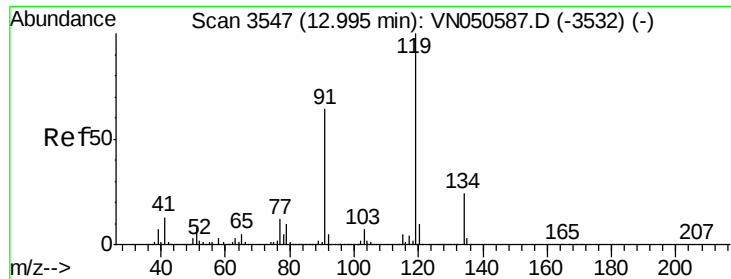
Tgt Ion: 91 Resp: 443394

Ion Ratio Lower Upper

91 100

126 34.6 17.3 52.0





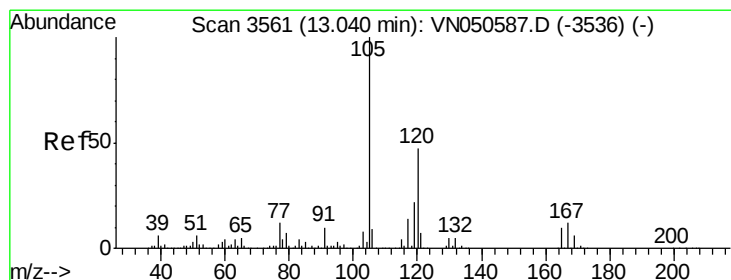
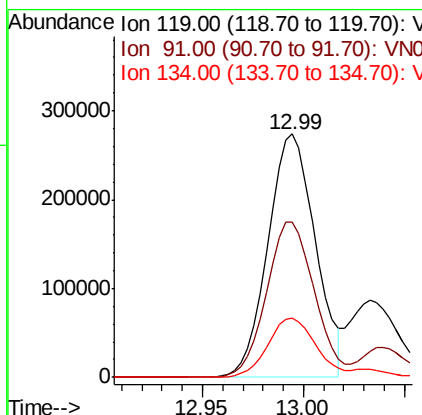
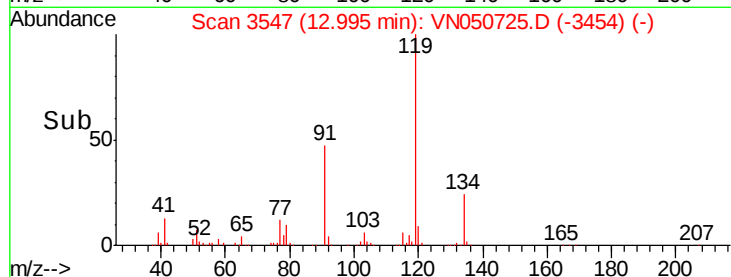
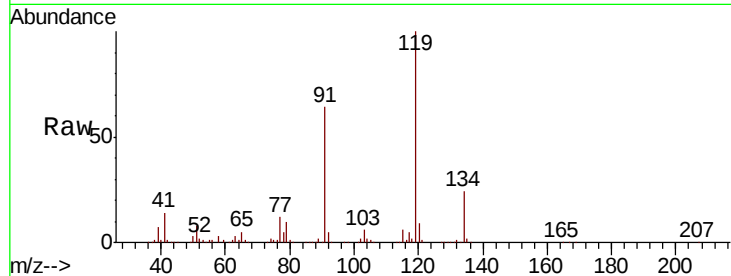
#83
 tert-Butylbenzene
 Concen: 20.60 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	446676		
91	64.7		32.2	96.6
134	24.8		13.4	40.2

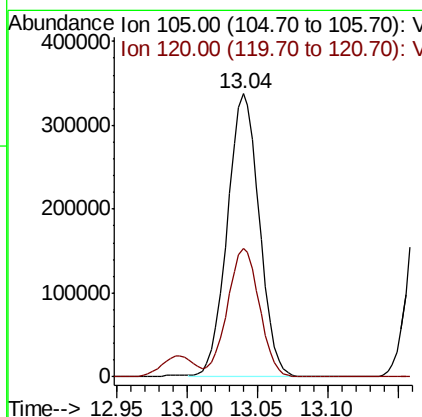
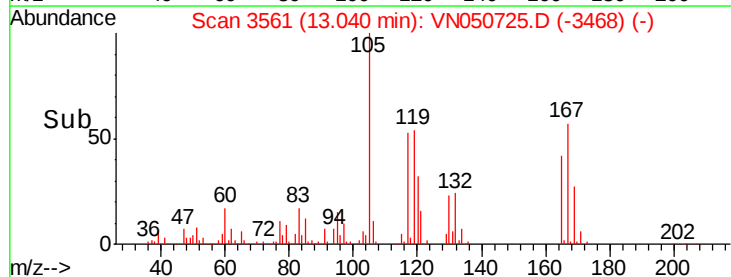
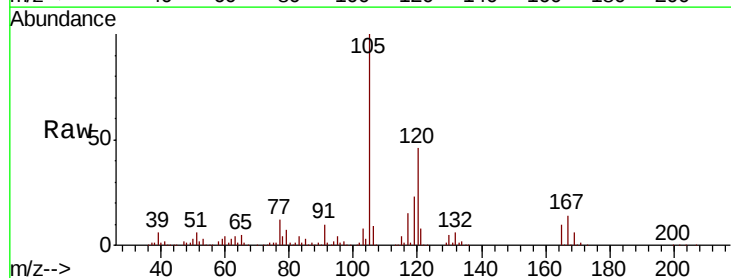
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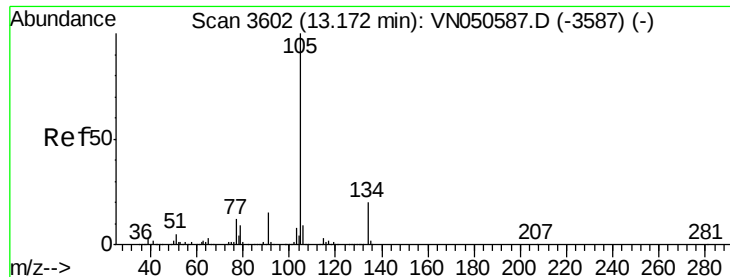
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.32 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	534632		
120	45.8		23.2	69.5





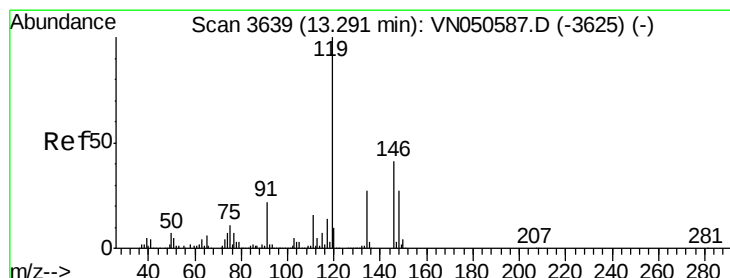
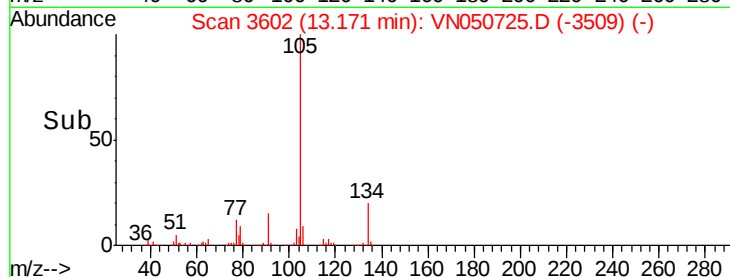
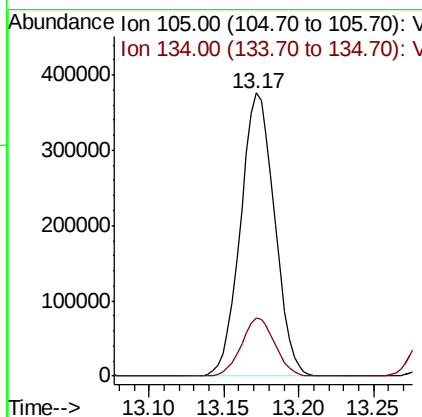
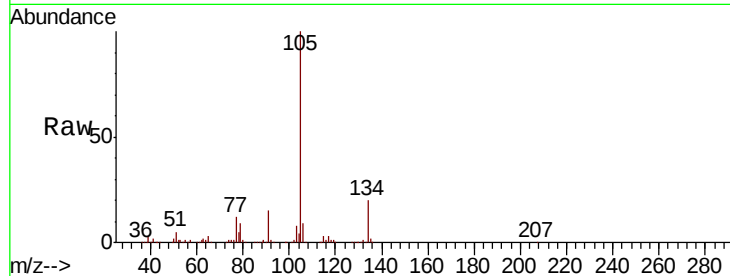
#85
 sec-Butylbenzene
 Concen: 20.99 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.3

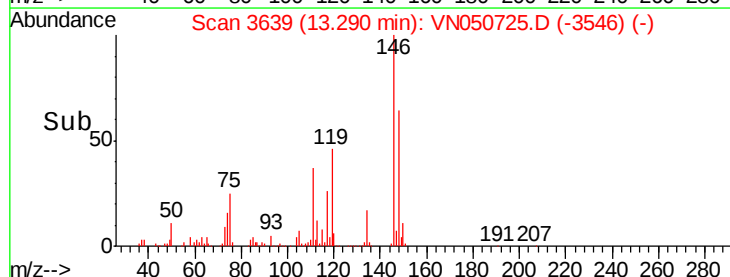
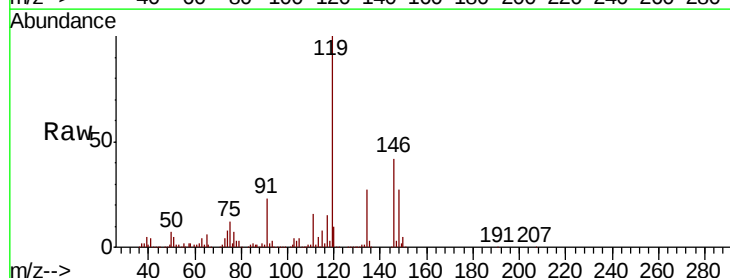
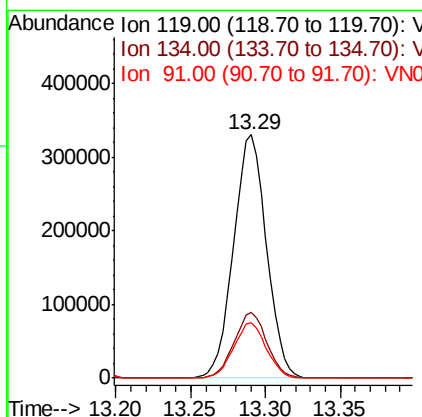
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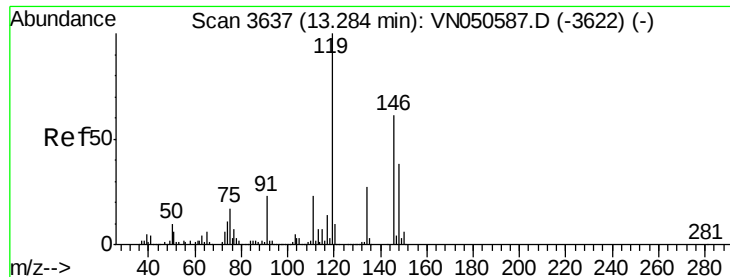
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#86
 p-Isopropyltoluene
 Concen: 21.01 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.5	40.4
91	22.4	11.2	33.6





#87

1,3-Dichlorobenzene

Concen: 19.87 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

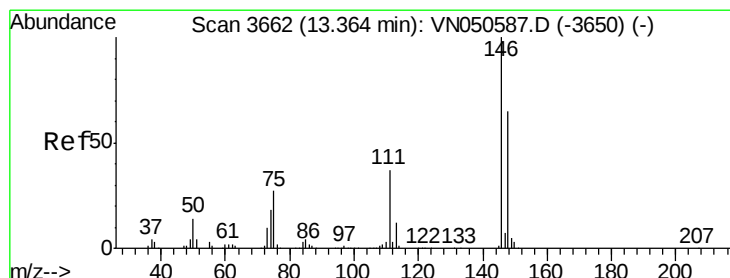
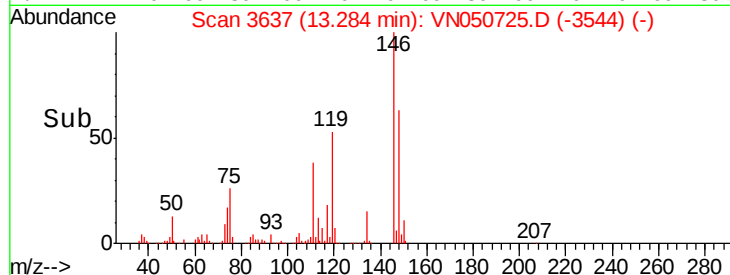
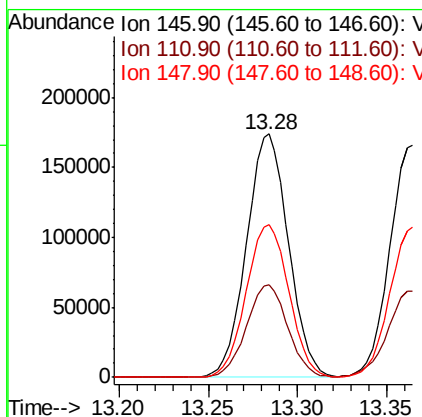
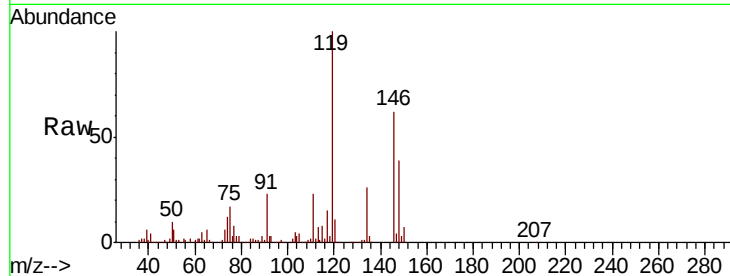
ClientSampleId :

VN0817WBSD02

Tot Ion:	146	Resp:	286486
Ion Ratio	Lower	Upper	
146	100		
111	37.5	19.2	57.6
148	63.8	31.9	95.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 19.13 ug/l

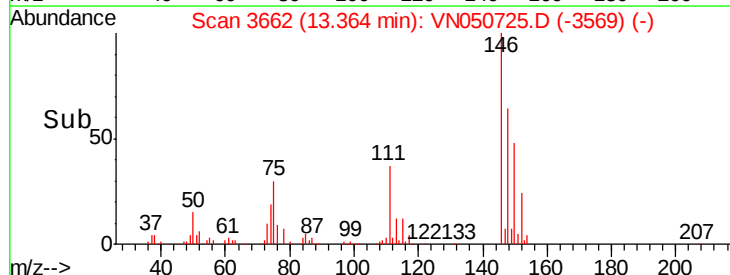
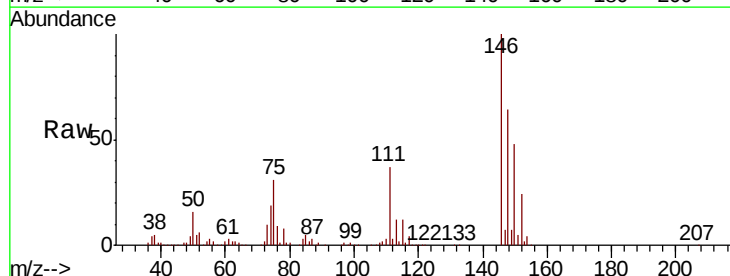
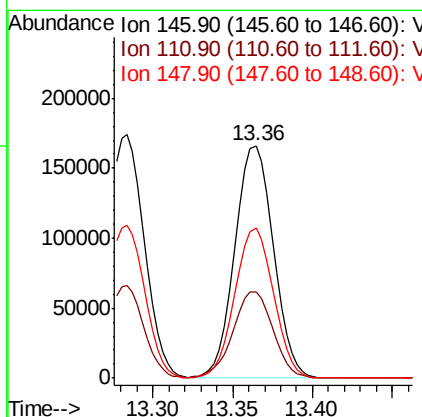
RT: 13.36 min Scan# 3662

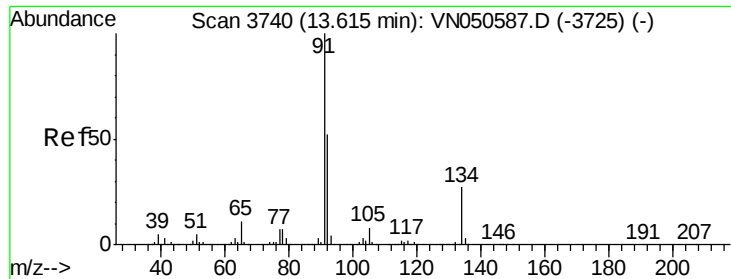
Delta R.T. -0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Tgt Ion:	146	Resp:	273779
Ion Ratio	Lower	Upper	
146	100		
111	38.6	18.8	56.4
148	64.5	32.3	96.8





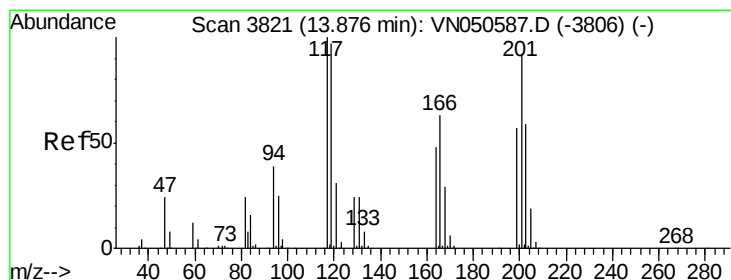
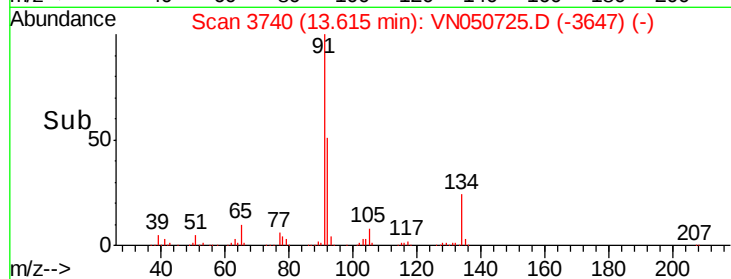
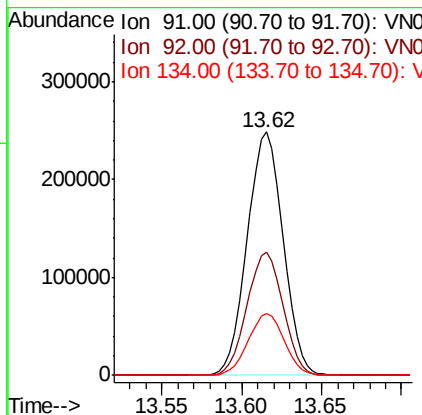
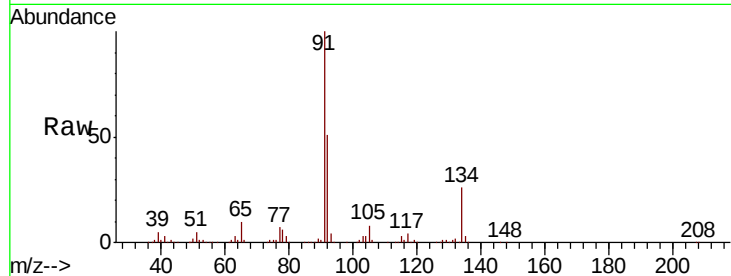
#89
n-Butylbenzene
Concen: 19.71 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.3	78.8
134	25.5	13.3	39.9

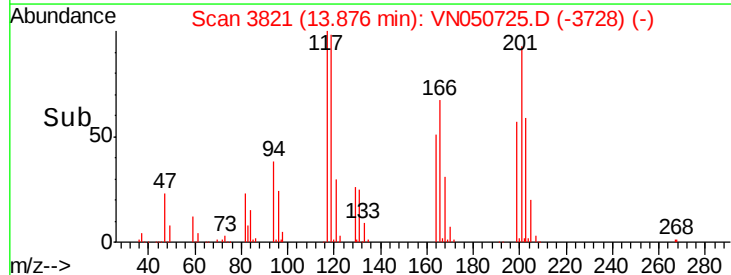
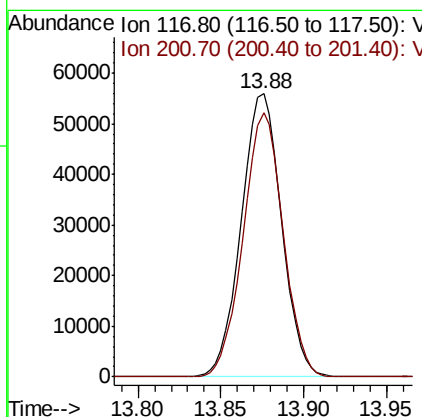
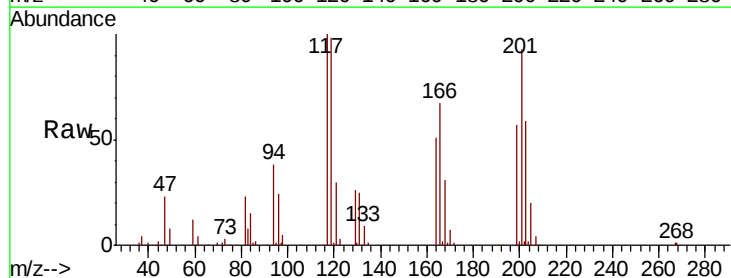
Manual Integrations
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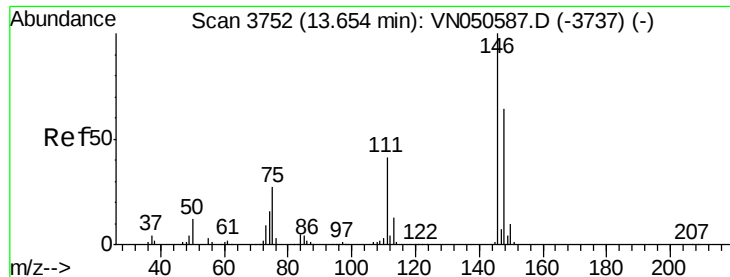
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#90
Hexachloroethane
Concen: 19.59 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN050725.D
Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.2	45.5	136.5





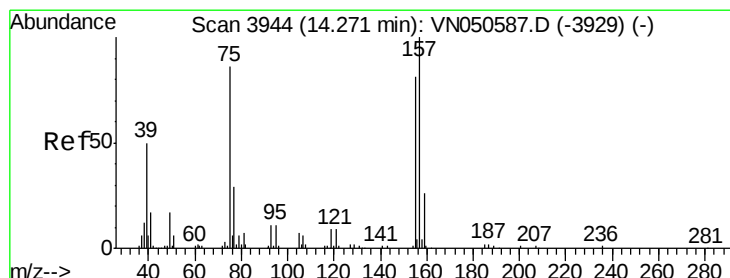
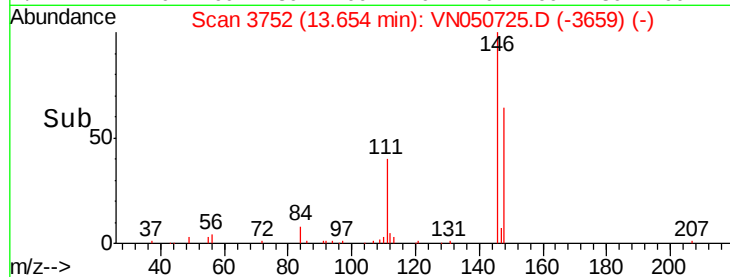
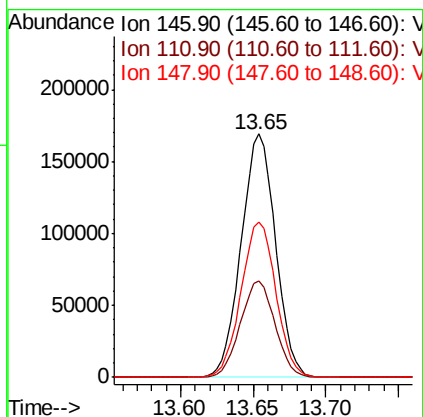
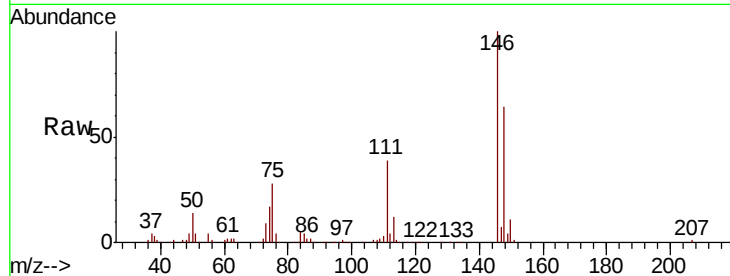
#91
 1,2-Dichlorobenzene
 Concen: 19.88 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion:	146	Resp:	279690
Ion Ratio	Lower	Upper	
146	100		
111	39.8	19.8	59.4
148	64.5	32.3	96.8

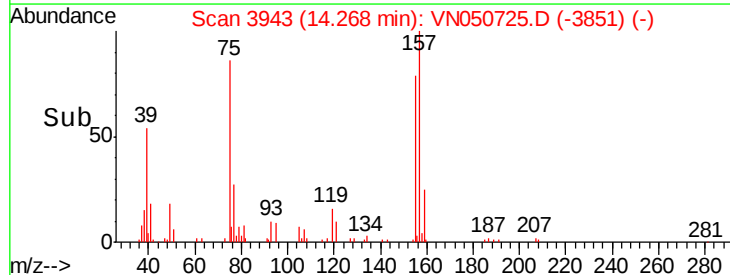
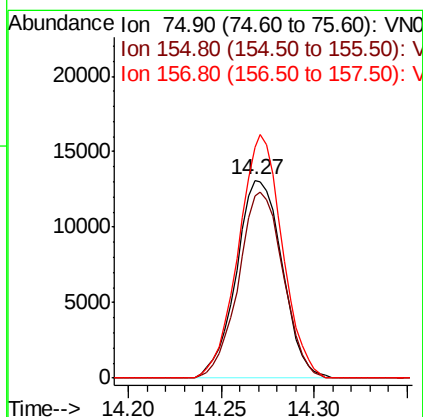
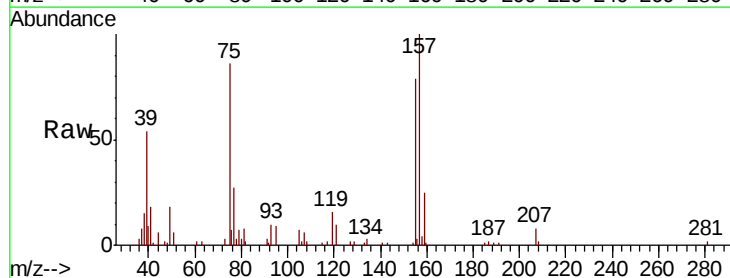
Manual Integrations
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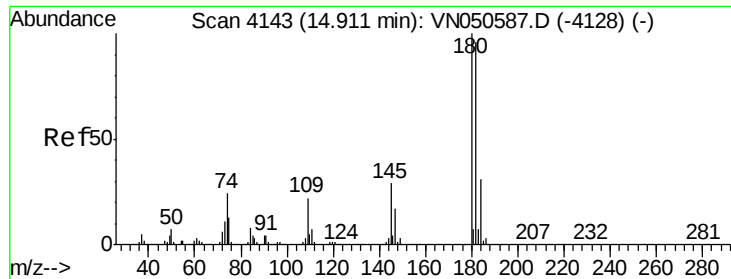
MMDadoda
 8/20/2018 10:53:04 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.20 ug/l
 RT: 14.27 min Scan# 3943
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion:	75	Resp:	22493
Ion Ratio	Lower	Upper	
75	100		
155	91.5	46.6	139.8
157	117.1	58.1	174.2





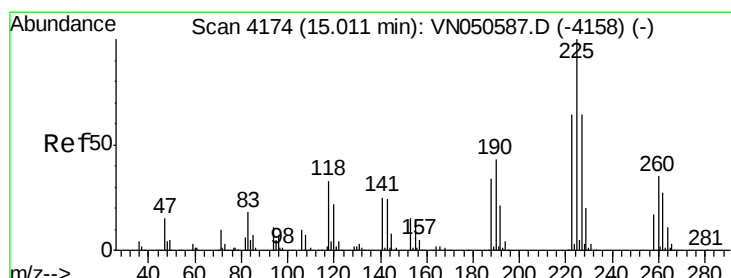
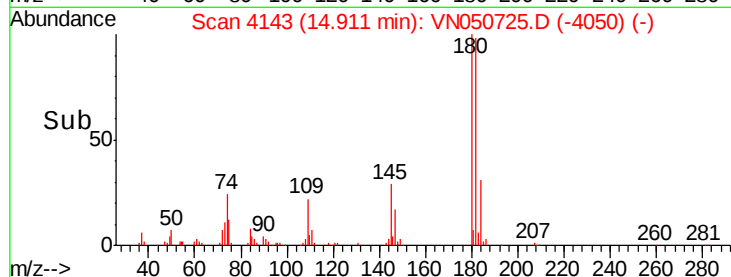
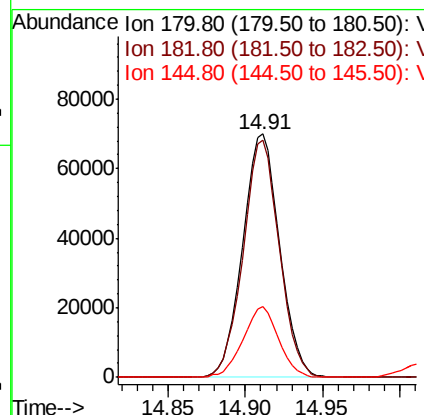
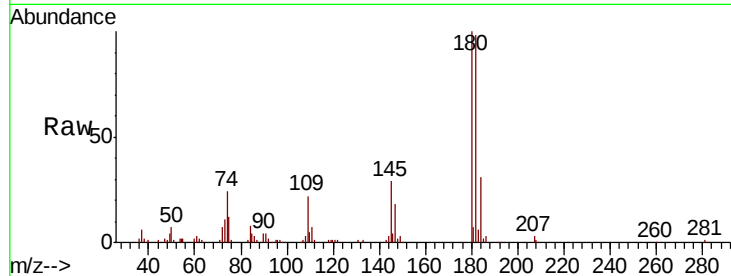
#93
 1,2,4-Trichlorobenzene
 Concen: 17.88 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	115970		
182	95.2	47.9	143.7	
145	28.1	14.4	43.4	

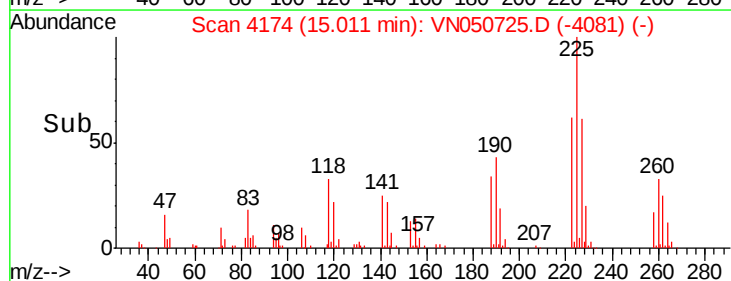
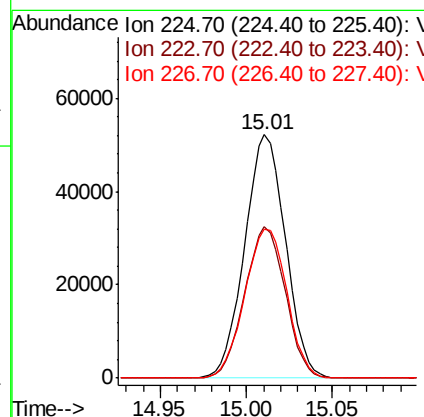
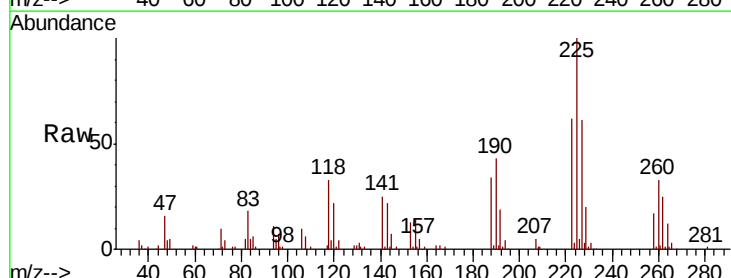
Manual Integrations
 APPROVED

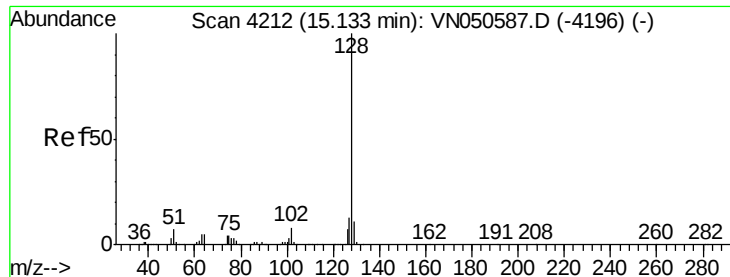
MMDadoda
 8/20/2018 10:53:04 AM



#94
 Hexachlorobutadiene
 Concen: 19.88 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050725.D
 Acq: 17 Aug 2018 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	85771		
223	61.8	32.1	96.3	
227	63.3	32.0	96.2	





#95

Naphthalene

Concen: 17.18 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Instrument :

MSVOA_N

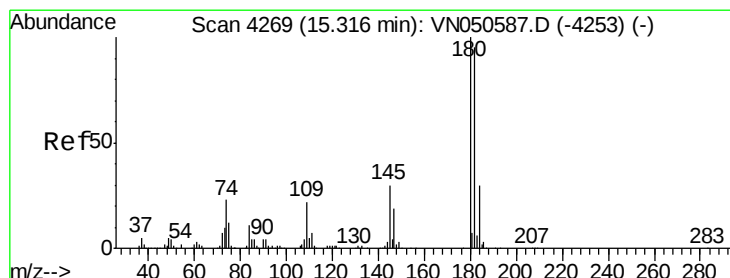
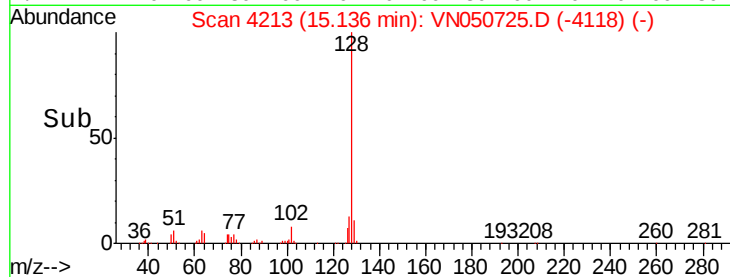
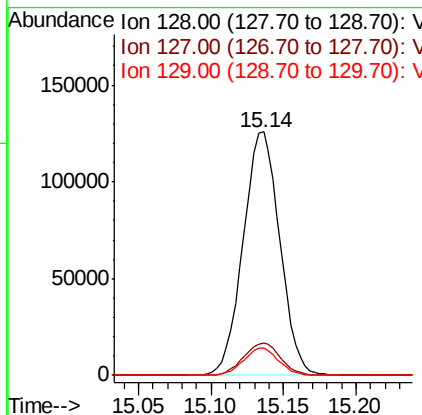
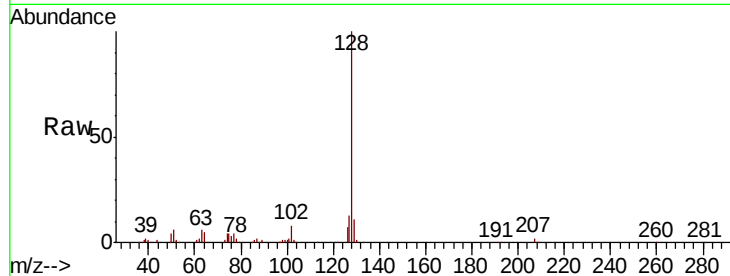
ClientSampleId :

VN0817WBSD02

Tot Ion:	128	Resp:	221699
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.3	15.5
129	10.7	8.5	12.7

Manual Integrations
APPROVED

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#96

1,2,3-Trichlorobenzene

Concen: 18.66 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050725.D

Acq: 17 Aug 2018 13:09

Tgt Ion:	180	Resp:	117323
Ion Ratio	Lower	Upper	
180	100		
182	97.6	47.3	141.8
145	30.0	14.6	44.0

