

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081318\
 Data File : VN050561.D
 Acq On : 13 Aug 2018 12:16
 Operator : MD\SY
 Sample : VN0813MBS01
 Misc : 5.00µg/10ml/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Manual Integrations
 APPROVED

MMDadoda
 8/14/2018 12:50:48 PM

Quant Time: Aug 14 01:25:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	700321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1021160	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	922188	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	456940	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	419084	44.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.58%	
35) Dibromofluoromethane	7.59	113	392957	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	
50) Toluene-d8	10.09	98	1447861	47.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.00%	
62) 4-Bromofluorobenzene	12.40	95	471924	44.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	133460	17.17	ug/l	100
3) Chloromethane	2.06	50	172248	17.81	ug/l	100
4) Vinyl Chloride	2.18	62	178207	17.71	ug/l	97
5) Bromomethane	2.56	94	97757	20.14	ug/l	98
6) Chloroethane	2.70	64	111279	17.95	ug/l	97
7) Trichlorofluoromethane	3.01	101	235973	18.16	ug/l	96
8) Diethyl Ether	3.41	74	81511	17.10	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	149590	18.63	ug/l	99
10) Methyl Iodide	3.95	142	76784	21.70	ug/l	99
11) Tert butyl alcohol	4.80	59	44350	59.00	ug/l	100
12) 1,1-Dichloroethene	3.74	96	131088	17.31	ug/l	98
13) Acrolein	3.61	56	32809	46.56	ug/l	97
14) Allyl chloride	4.33	41	212112	17.45	ug/l	97
15) Acrylonitrile	5.00	53	243535	77.35	ug/l	99
16) Acetone	3.82	43	215221	76.88	ug/l	99
17) Carbon Disulfide	4.05	76	384231	15.61	ug/l	99
18) Methyl Acetate	4.33	43	129201	17.69	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	356502	16.59	ug/l	98
20) Methylene Chloride	4.55	84	159826	17.73	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	144137	17.59	ug/l	95
22) Diisopropyl ether	5.96	45	469900	18.92	ug/l	98
23) Vinyl Acetate	5.90	43	1478143	83.41	ug/l	99
24) 1,1-Dichloroethane	5.85	63	280730	18.42	ug/l	99
25) 2-Butanone	6.84	43	347764	75.00	ug/l	99
26) 2,2-Dichloropropane	6.82	77	228269	18.17	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	165357	18.21	ug/l	99
28) Bromochloromethane	7.20	49	124967	17.81	ug/l	99
29) Tetrahydrofuran	7.22	42	179527	72.34	ug/l	98
30) Chloroform	7.37	83	282223	18.52	ug/l	99
31) Cyclohexane	7.65	56	237282	17.28	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	240153	18.35	ug/l	99
36) 1,1-Dichloropropene	7.80	75	208214	18.56	ug/l	99
37) Ethyl Acetate	6.93	43	128687	15.93	ug/l	99
38) Carbon Tetrachloride	7.77	117	211929	18.11	ug/l	99

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 QLast Update : Tue Aug 07 05:22:15 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	210476	17.19	ug/l	100
40) Benzene	8.04	78	642927	18.64	ug/l	100
41) Methacrylonitrile	7.18	41	65929	15.34	ug/l	86
42) 1,2-Dichloroethane	8.13	62	200417	18.30	ug/l	100
43) Isopropyl Acetate	8.17	43	219574	15.74	ug/l	98
44) Trichloroethene	8.84	130	166987	18.02	ug/l	98
45) 1,2-Dichloropropane	9.12	63	171892	18.95	ug/l	99
46) Dibromomethane	9.21	93	100346	17.92	ug/l	99
47) Bromodichloromethane	9.40	83	212703	18.34	ug/l	98
48) Methyl methacrylate	9.20	41	105776	15.13	ug/l	95
49) 1,4-Dioxane	9.20	88	28836	267.59	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	777642	77.41	ug/l	100
52) Toluene	10.16	92	394982	19.06	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	205674	17.66	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	243984	18.77	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	144462	17.86	ug/l	97
56) Ethyl methacrylate	10.43	69	167491	15.84	ug/l	98
57) 1,3-Dichloropropane	10.71	76	237740	17.91	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	400825	80.29	ug/l	100
59) 2-Hexanone	10.75	43	511965	73.03	ug/l	100
60) Dibromochloromethane	10.90	129	160479	18.01	ug/l	99
61) 1,2-Dibromoethane	11.01	107	138001	17.31	ug/l	99
64) Tetrachloroethene	10.63	164	156055	18.11	ug/l	97
65) Chlorobenzene	11.44	112	427246	18.48	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	161722	19.22	ug/l	99
67) Ethyl Benzene	11.51	91	703824	18.83	ug/l	100
68) m/p-Xylenes	11.62	106	548495	38.55	ug/l	100
69) o-Xylene	11.95	106	257687	18.80	ug/l	99
70) Styrene	11.96	104	425137	19.08	ug/l	99
71) Bromoform	12.13	173	106795	17.37	ug/l #	100
73) Isopropylbenzene	12.25	105	692600	20.19	ug/l	99
74) N-amyl acetate	12.07	43	176331	15.86	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	175783	17.76	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	151950m	18.37	ug/l	
77) Bromobenzene	12.53	156	179852	19.57	ug/l	100
78) n-propylbenzene	12.59	91	782406	20.15	ug/l	99
79) 2-Chlorotoluene	12.68	91	475155	19.82	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	567418	20.38	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	40541	17.22	ug/l	98
82) 4-Chlorotoluene	12.77	91	481653	20.14	ug/l	99
83) tert-Butylbenzene	12.99	119	486342	20.02	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	575449	20.40	ug/l	99
85) sec-Butylbenzene	13.17	105	639266	19.75	ug/l	100
86) p-Isopropyltoluene	13.29	119	539852	19.46	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	308987	18.88	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	302305	18.50	ug/l	99
89) n-Butylbenzene	13.62	91	416461	17.63	ug/l	99
90) Hexachloroethane	13.88	117	99265	20.12	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	297416	18.13	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	22603	13.45	ug/l	93

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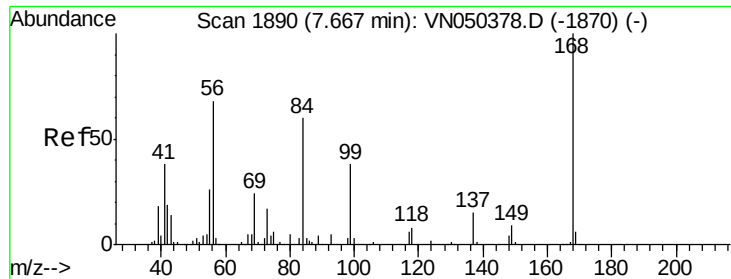
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	129932	15.55	ug/l	98
94) Hexachlorobutadiene	15.01	225	89132	18.49	ug/l	99
95) Naphthalene	15.13	128	251069	14.15	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	128329	15.19	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: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion:168 Resp: 700321

Ion Ratio Lower Upper

168 100

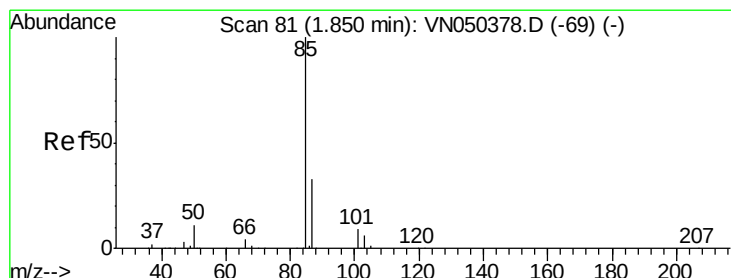
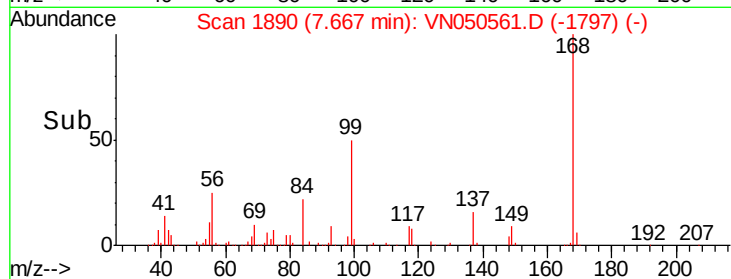
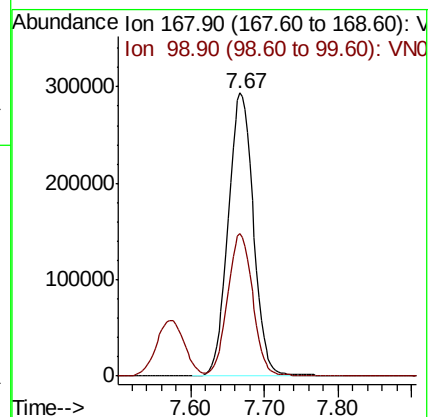
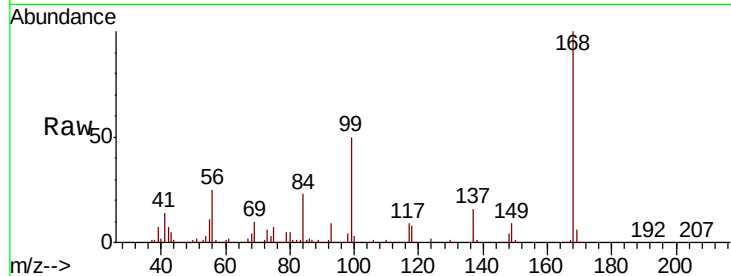
99 50.3 40.0 60.0

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 17.17 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050561.D

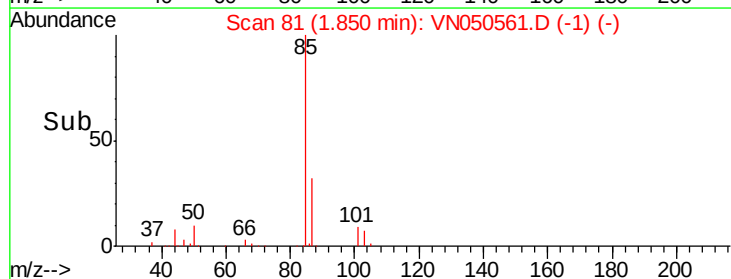
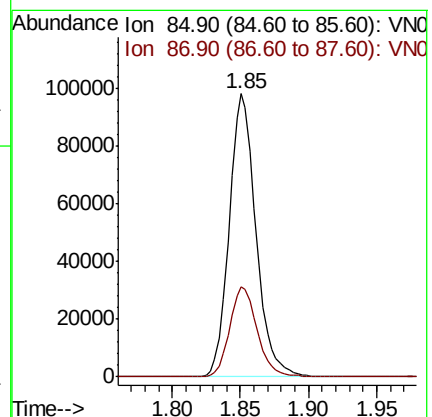
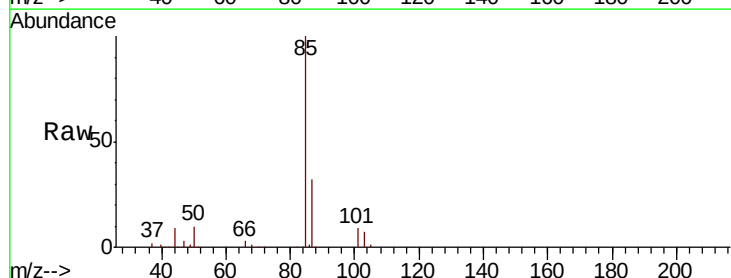
Acq: 13 Aug 2018 12:16

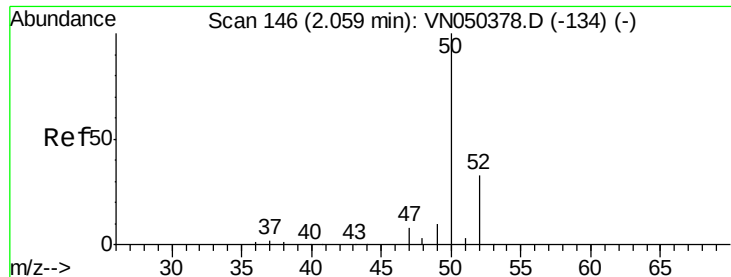
Tgt Ion: 85 Resp: 133460

Ion Ratio Lower Upper

85 100

87 32.0 16.1 48.3





#3

Chloromethane

Concen: 17.81 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampled :

VN0813MBS01

Tot Ion: 50 Resp: 172248

Ion Ratio Lower Upper

50 100

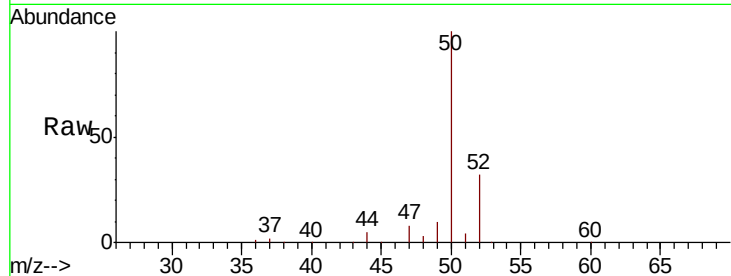
52 32.4 25.9 38.9

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

150000

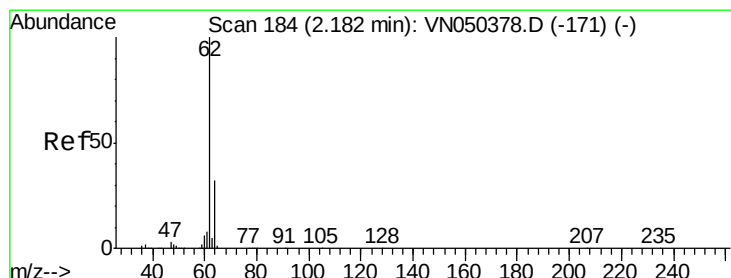
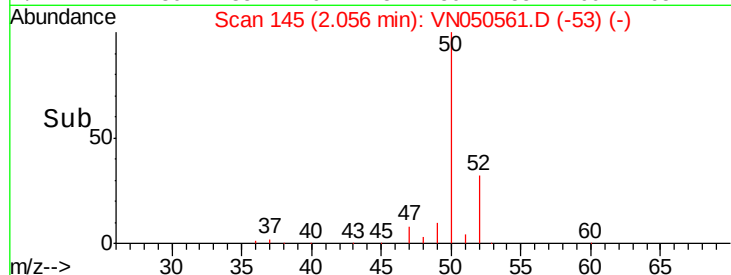
100000

50000

0

2.00 2.05 2.10

Time-->



#4

Vinyl Chloride

Concen: 17.71 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050561.D

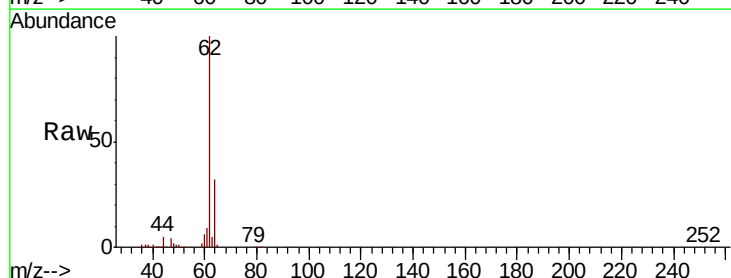
Acq: 13 Aug 2018 12:16

Tgt Ion: 62 Resp: 178207

Ion Ratio Lower Upper

62 100

64 32.4 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

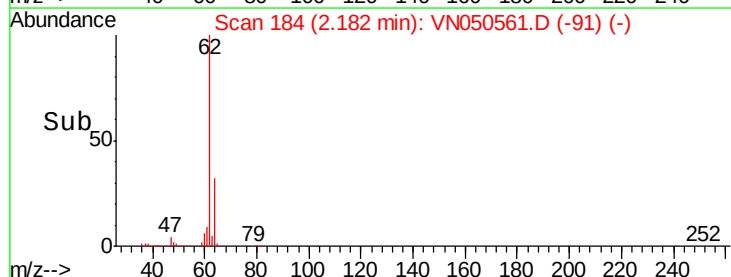
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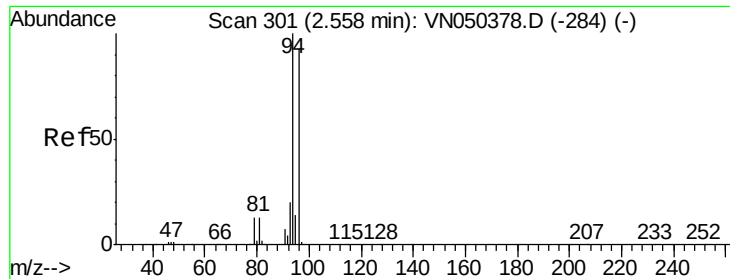
50000

0

2.10 2.15 2.20 2.25

Time-->





#5

Bromomethane

Concen: 20.14 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion: 94 Resp: 97757

Ion Ratio Lower Upper

94 100

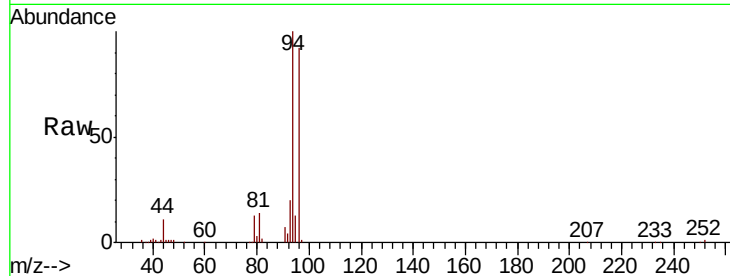
96 91.7 74.6 112.0

Manual Integrations

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8/14/2018 12:50:48 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

50000

40000

30000

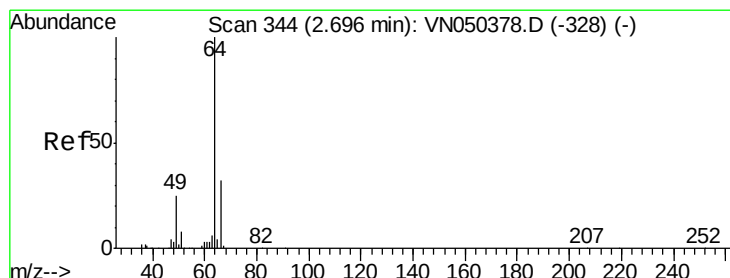
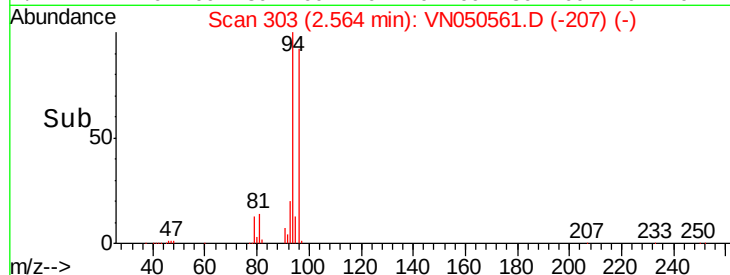
20000

10000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 17.95 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VN050561.D

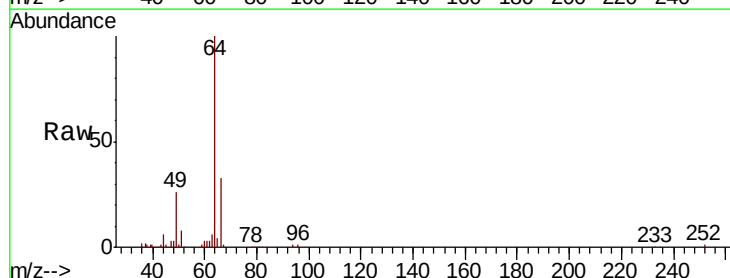
Acq: 13 Aug 2018 12:16

Tgt Ion: 64 Resp: 111279

Ion Ratio Lower Upper

64 100

66 33.2 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

60000

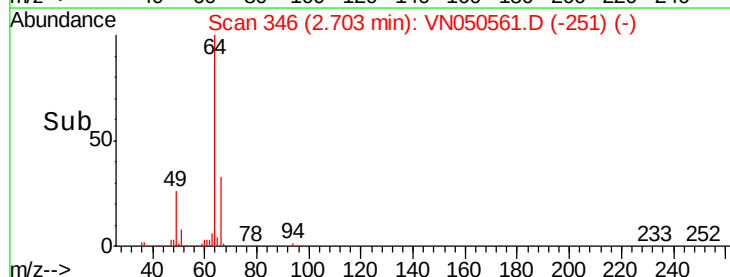
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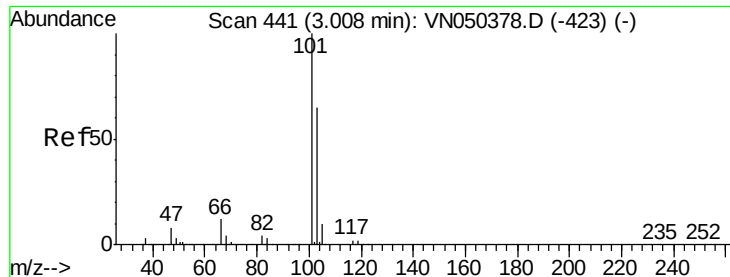
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Time-->

2.60 2.65 2.70 2.75 2.80





#7

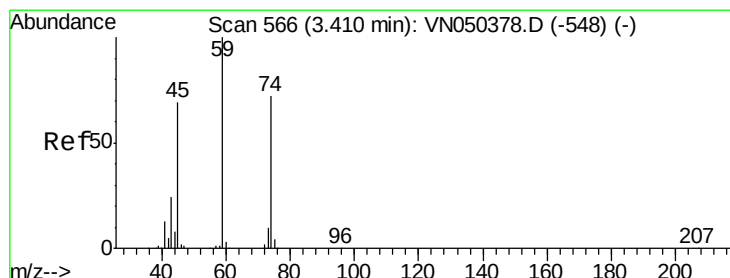
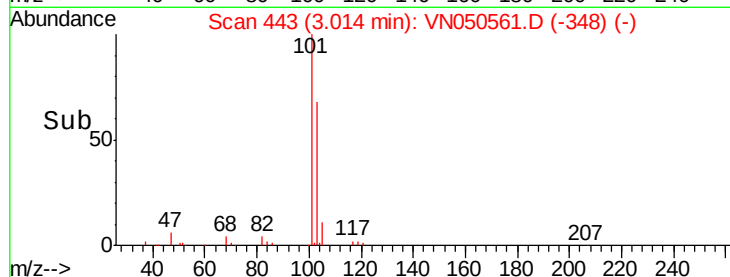
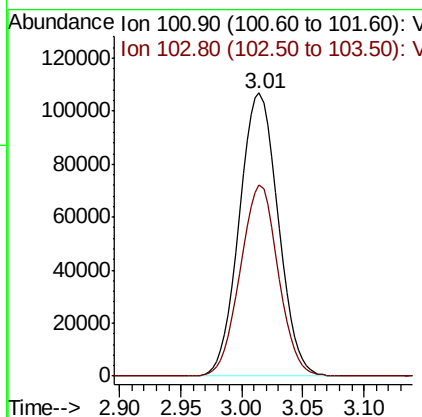
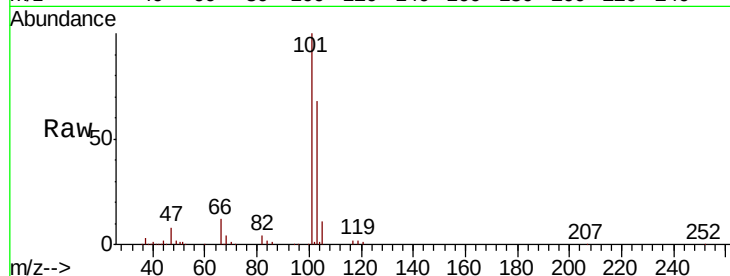
Trichlorofluoromethane
 Concen: 18.16 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.01 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
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 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.7	77.5

Manual Integrations
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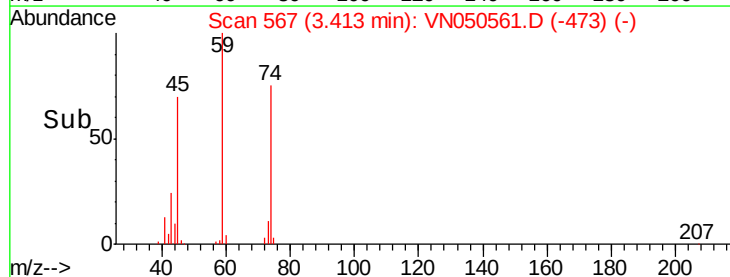
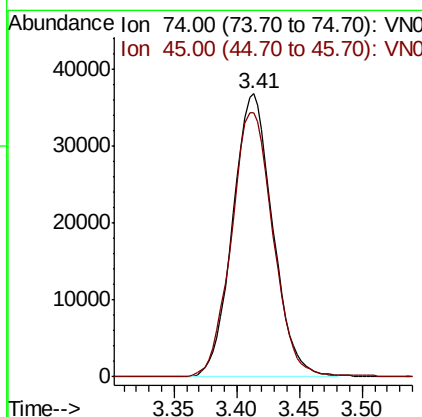
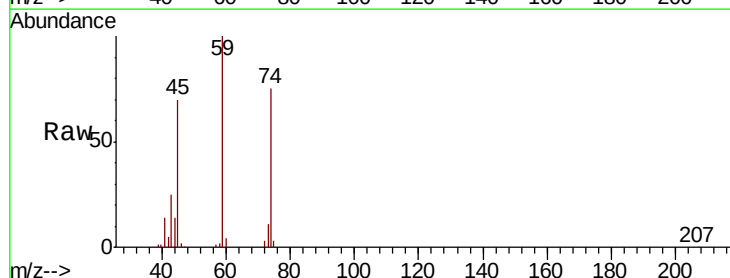
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 8/14/2018 12:50:48 PM

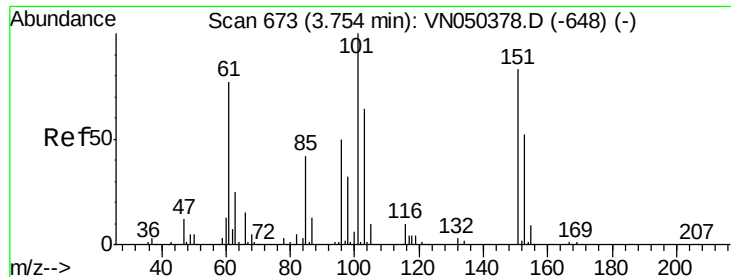


#8

Diethyl Ether
 Concen: 17.10 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.2	47.6	142.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.63 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.01 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

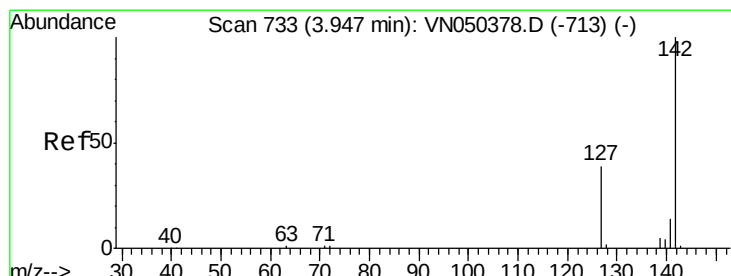
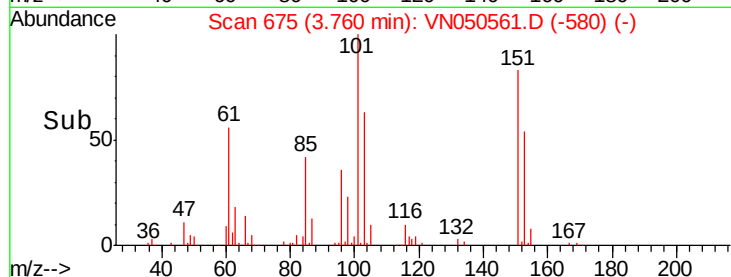
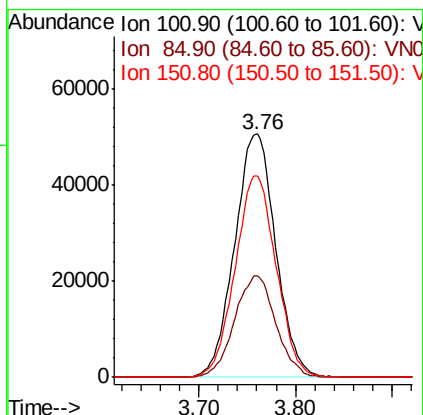
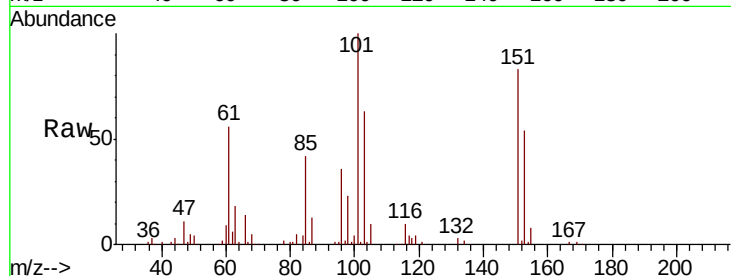
ClientSampleId :

VN0813MBS01

Tot Ion:	101	Resp:	149590
Ion Ratio	Lower	Upper	
101	100		
85	41.8	34.2	51.2
151	82.6	66.3	99.5

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8/14/2018 12:50:48 PM



#10

Methyl Iodide

Concen: 21.70 ug/l

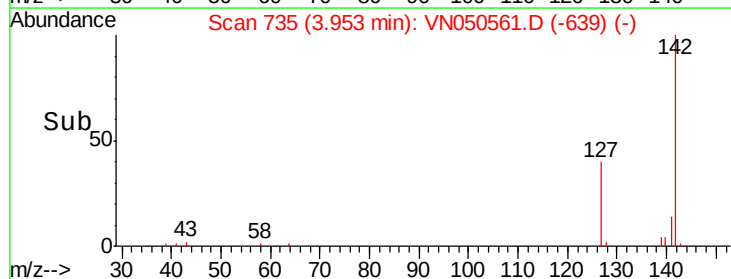
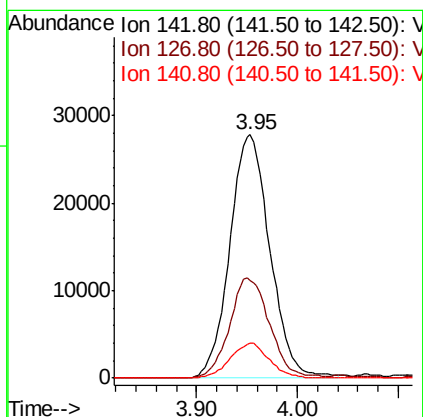
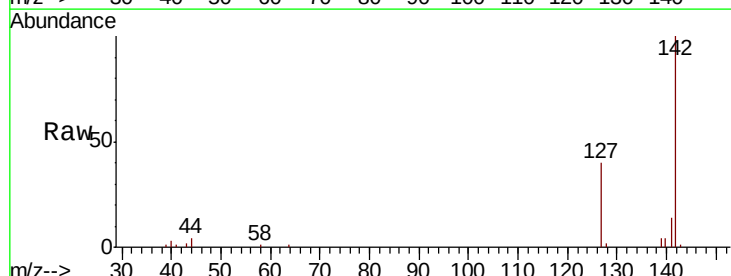
RT: 3.95 min Scan# 735

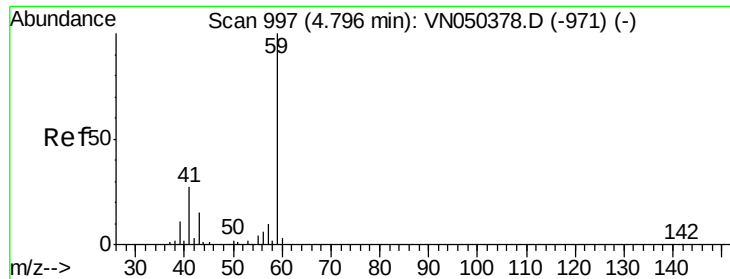
Delta R.T. 0.01 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Tgt Ion:	142	Resp:	76784
Ion Ratio	Lower	Upper	
142	100		
127	41.1	33.4	50.2
141	13.9	11.6	17.4





#11

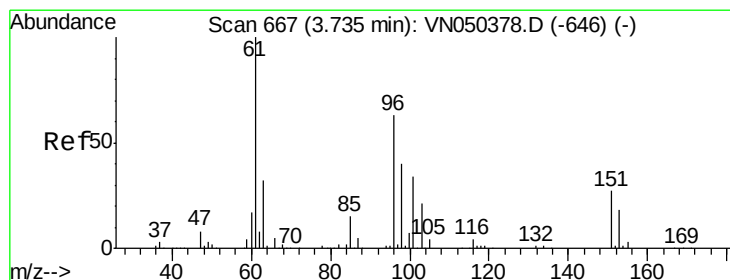
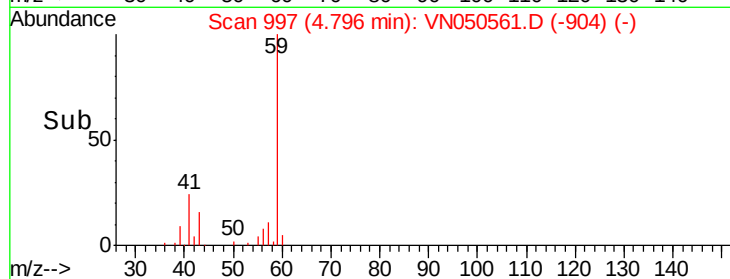
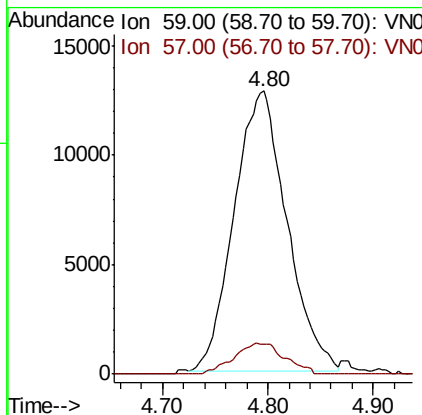
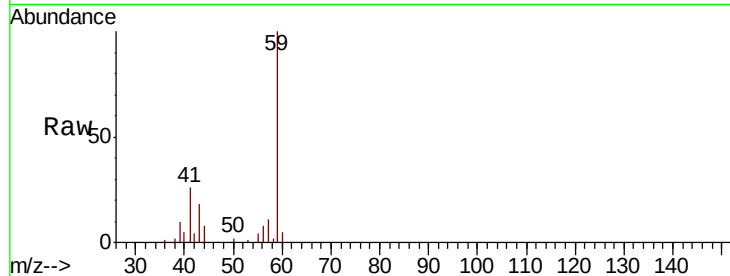
Tert butyl alcohol
Concen: 59.00 ug/l
RT: 4.80 min Scan# 997
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.5	12.7

Manual Integrations
APPROVED

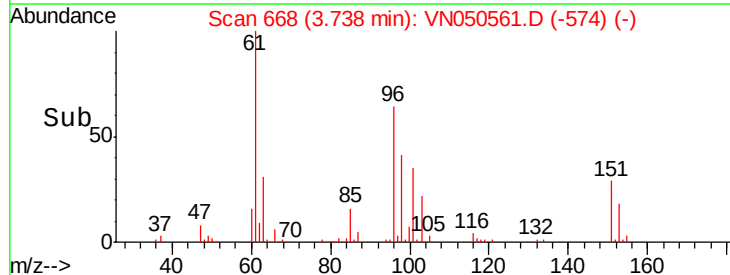
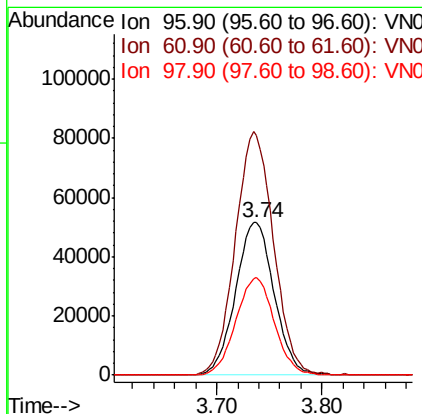
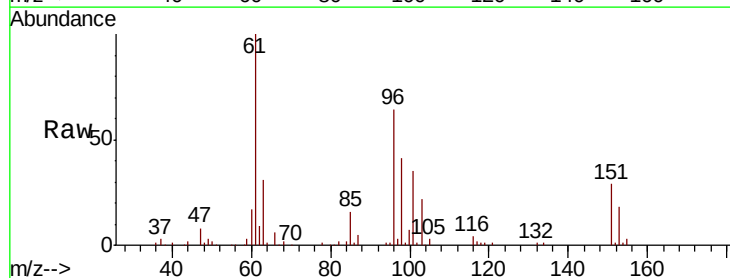
MMDadoda
8/14/2018 12:50:48 PM

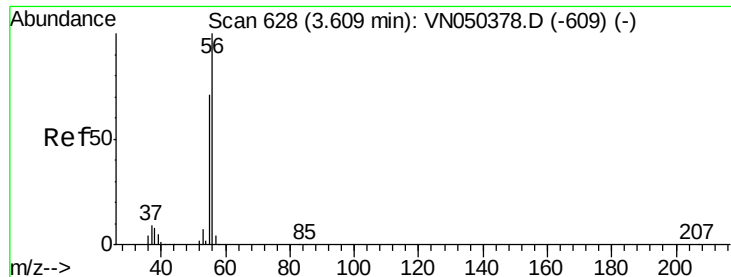


#12

1,1-Dichloroethene
Concen: 17.31 ug/l
RT: 3.74 min Scan# 668
Delta R.T. 0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.1	124.4	186.6
98	63.9	48.3	72.5





#13

Acrolein

Concen: 46.56 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion: 56 Resp: 32809

Ion Ratio Lower Upper

56 100

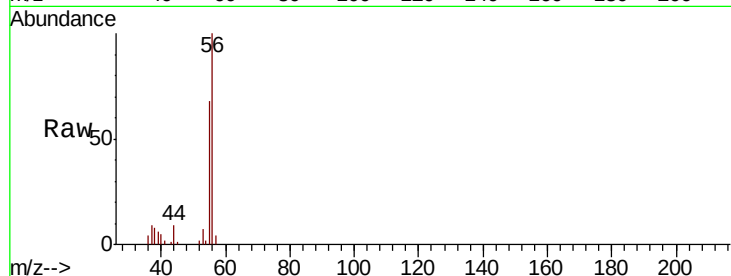
55 72.1 55.8 83.6

Manual Integrations

APPROVED

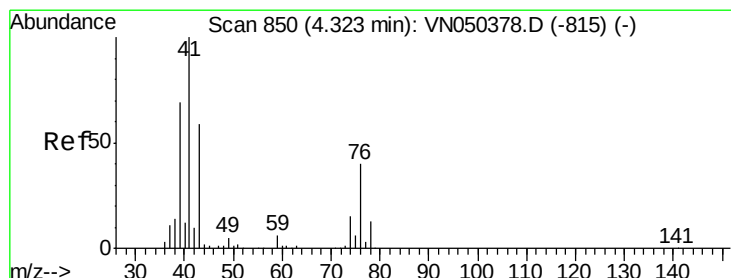
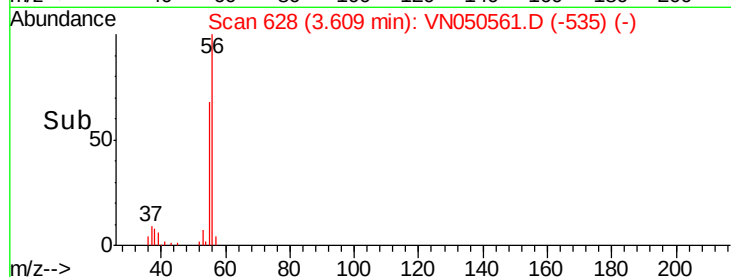
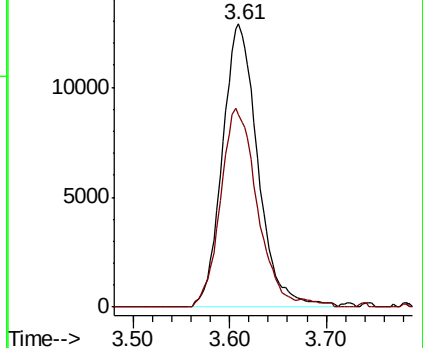
MMDadoda

8/14/2018 12:50:48 PM



Abundance Ion 56.00 (55.70 to 56.70): VN050378.D (-609) (-)

Ion 55.00 (54.70 to 55.70): VN050378.D (-609) (-)



#14

Allyl chloride

Concen: 17.45 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

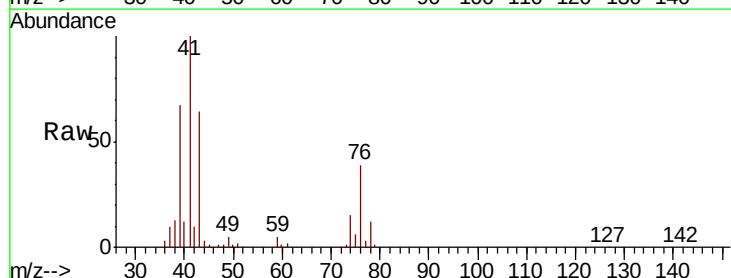
Tgt Ion: 41 Resp: 212112

Ion Ratio Lower Upper

41 100

39 64.3 54.2 81.4

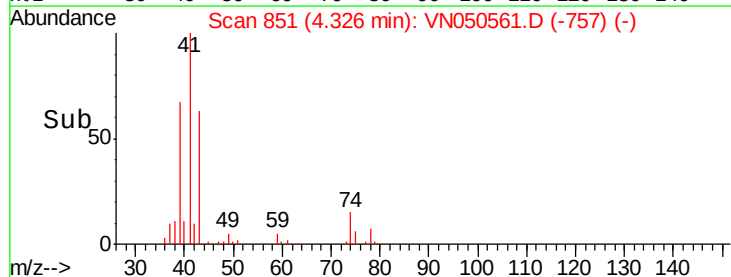
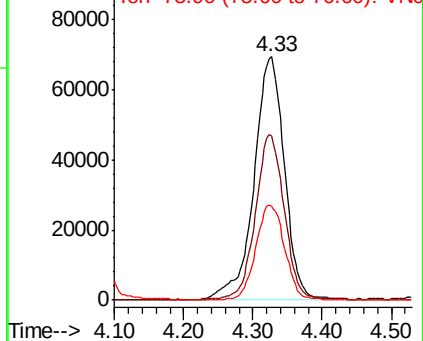
76 37.0 29.0 43.6

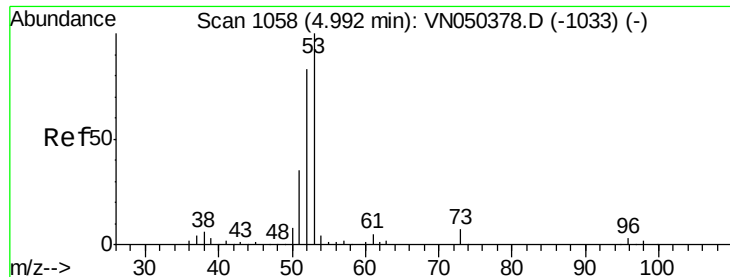


Abundance Ion 41.00 (40.70 to 41.70): VN050378.D (-815) (-)

Ion 39.00 (38.70 to 39.70): VN050378.D (-815) (-)

Ion 75.90 (75.60 to 76.60): VN050378.D (-815) (-)





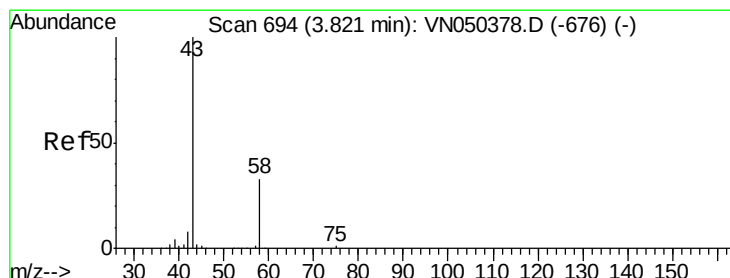
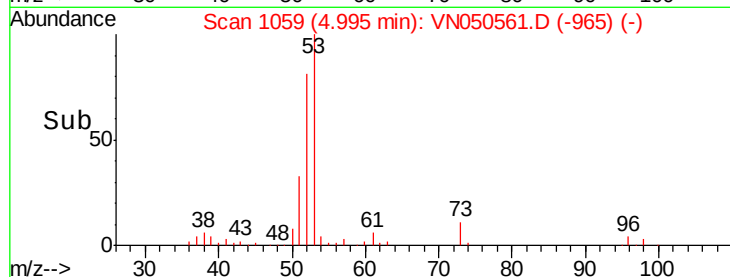
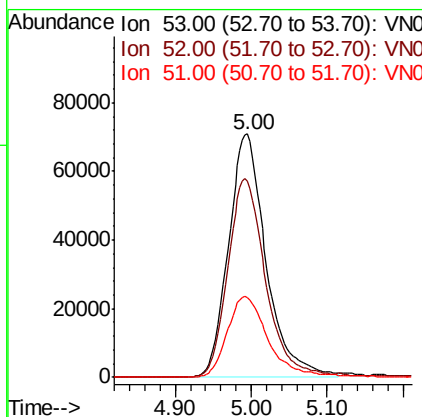
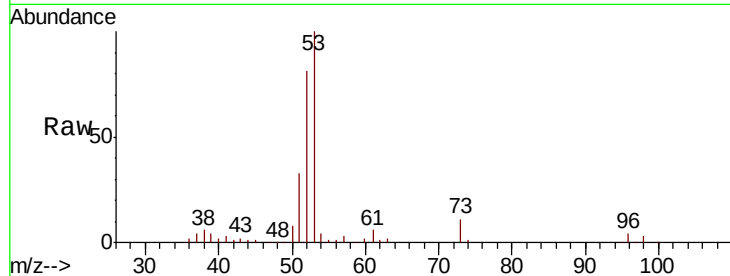
#15
 Acrylonitrile
 Concen: 77.35 ug/l
 RT: 5.00 min Scan# 1059
 Delta R.T. 0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.2	99.2
51	36.2	29.3	43.9

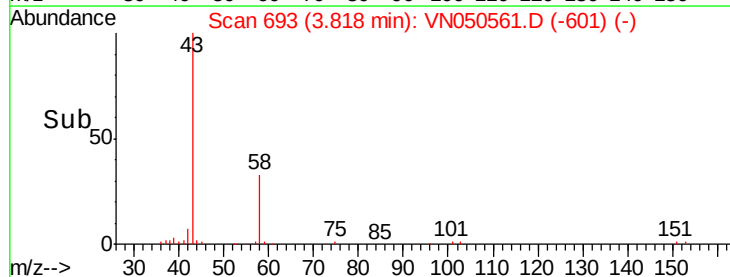
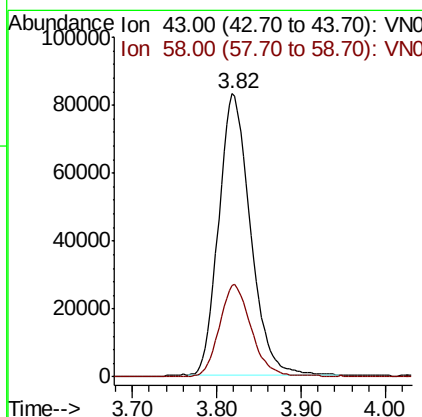
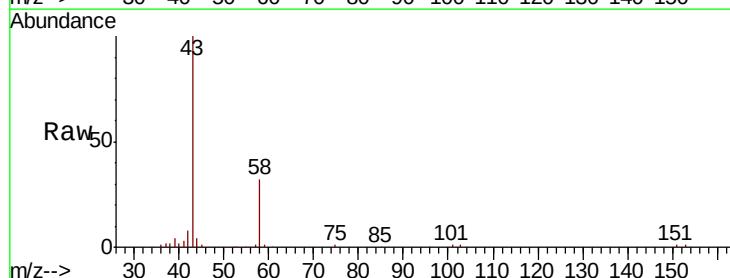
Manual Integrations
 APPROVED

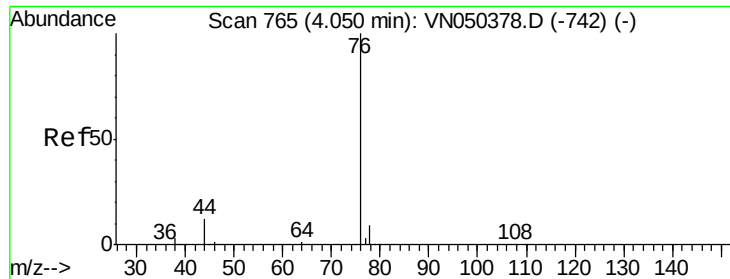
MMDadoda
 8/14/2018 12:50:48 PM



#16
 Acetone
 Concen: 76.88 ug/l
 RT: 3.82 min Scan# 693
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.7	25.8	38.8





#17

Carbon Disulfide

Concen: 15.61 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Tot Ion: 76 Resp: 384231

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9

Instrument :

MSVOA_N

ClientSampleId :

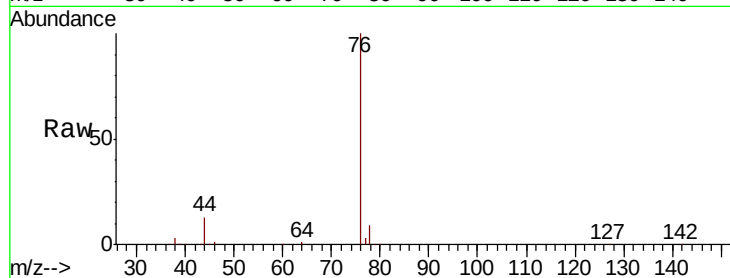
VN0813MBS01

Manual Integrations

APPROVED

MMDadoda

8/14/2018 12:50:48 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

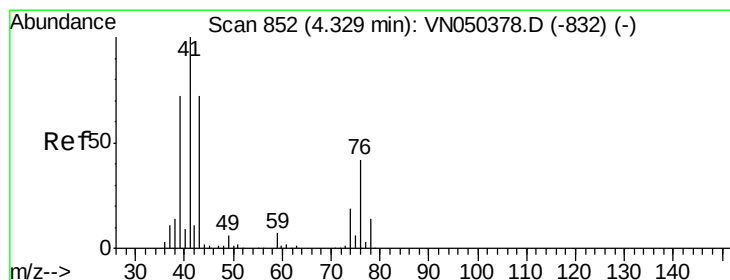
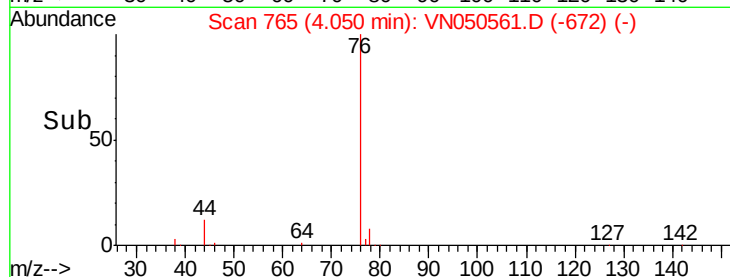
150000

100000

50000

0

Time--> 3.90 4.00 4.10 4.20



#18

Methyl Acetate

Concen: 17.69 ug/l

RT: 4.33 min Scan# 851

Delta R.T. -0.00 min

Lab File: VN050561.D

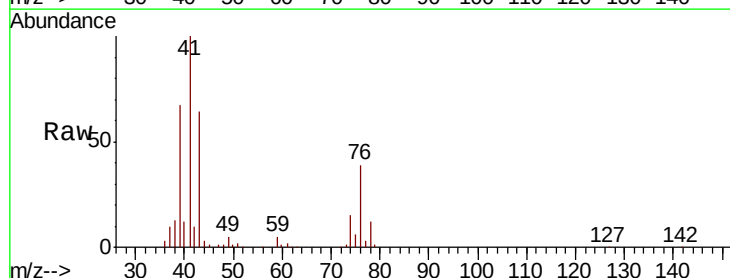
Acq: 13 Aug 2018 12:16

Tgt Ion: 43 Resp: 129201

Ion Ratio Lower Upper

43 100

74 24.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

50000

40000

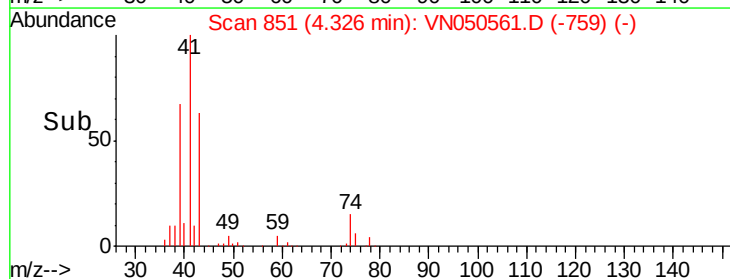
30000

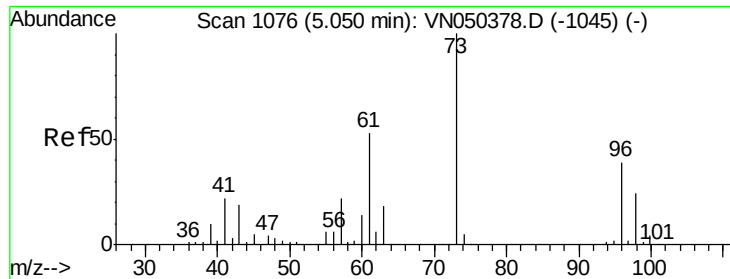
20000

10000

0

Time--> 4.20 4.30 4.40





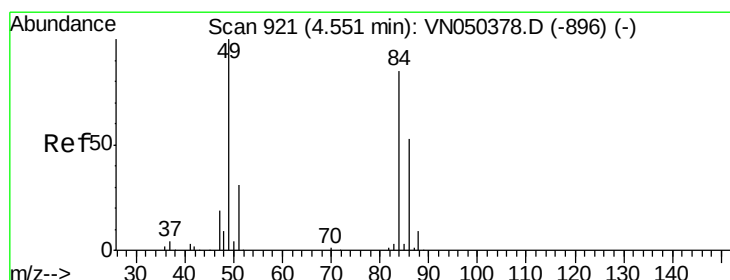
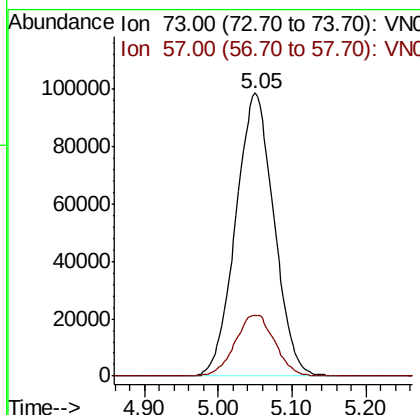
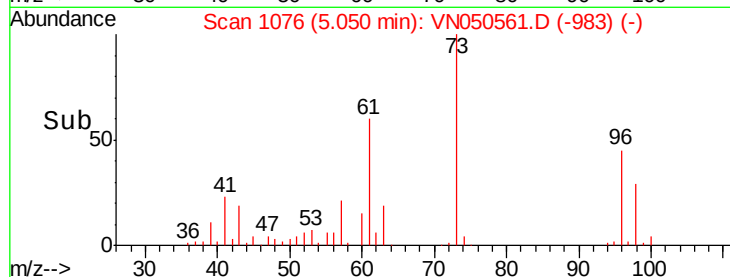
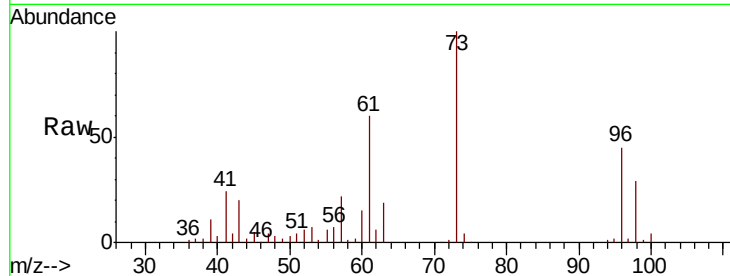
#19
Methvl tert-butyl Ether
Concen: 16.59 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion: 73 Resp: 356502
Ion Ratio Lower Upper
73 100
57 21.5 18.0 27.0

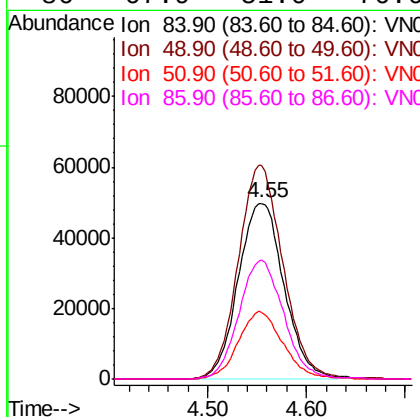
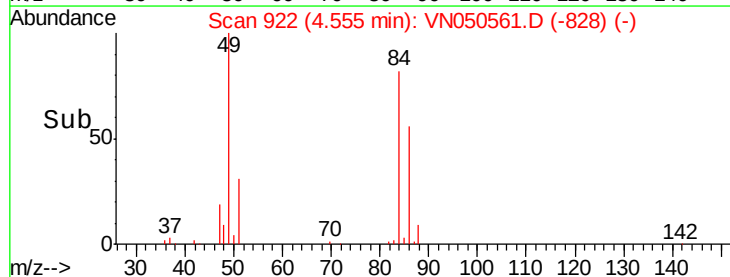
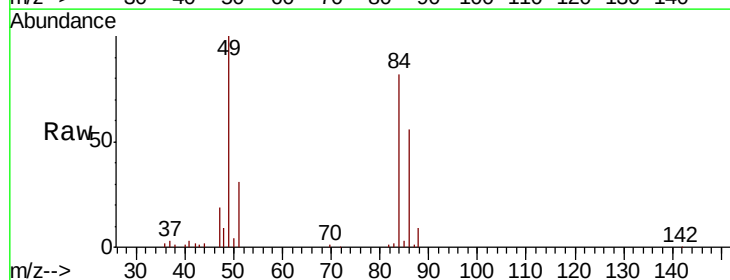
Manual Integrations
APPROVED

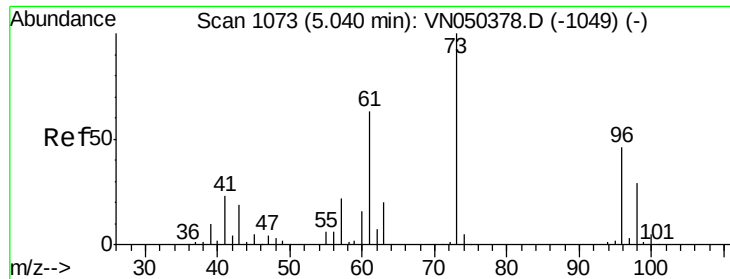
MMDadoda
8/14/2018 12:50:48 PM



#20
Methylene Chloride
Concen: 17.73 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion: 84 Resp: 159826
Ion Ratio Lower Upper
84 100
49 121.5 94.8 142.2
51 38.2 28.3 42.5
86 67.9 51.0 76.6





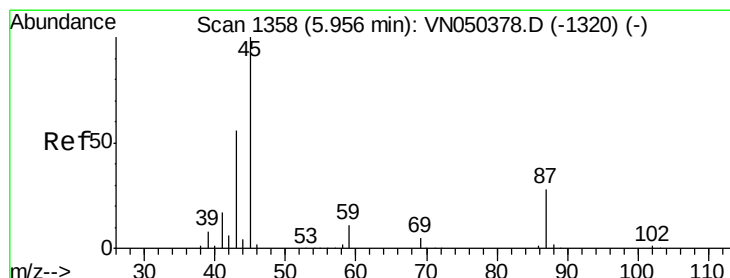
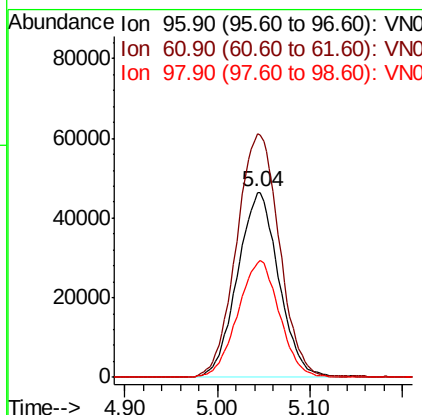
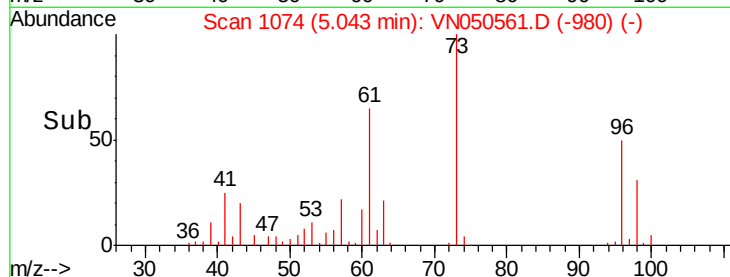
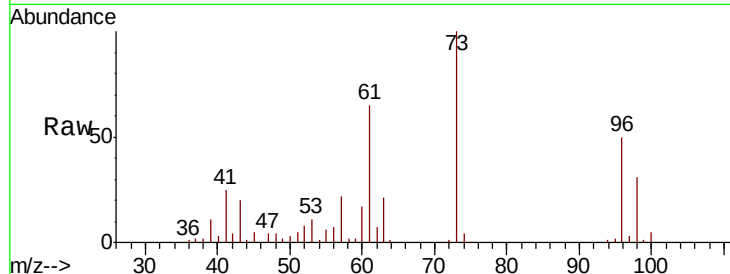
#21
trans-1,2-Dichloroethene
Concen: 17.59 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.5	110.7	166.1
98	61.7	51.6	77.4

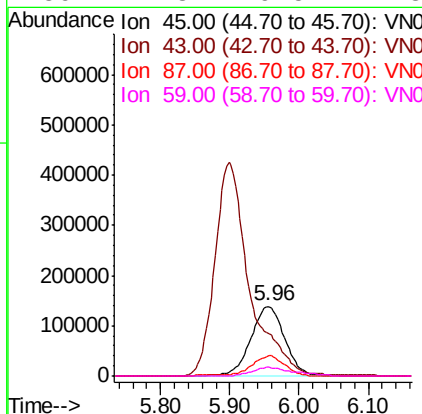
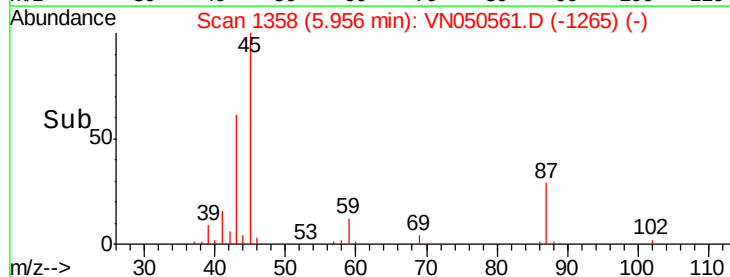
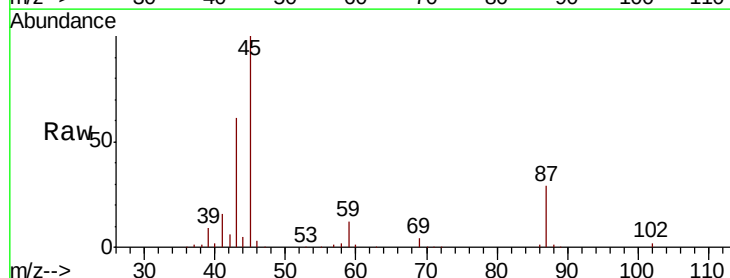
Manual Integrations
APPROVED

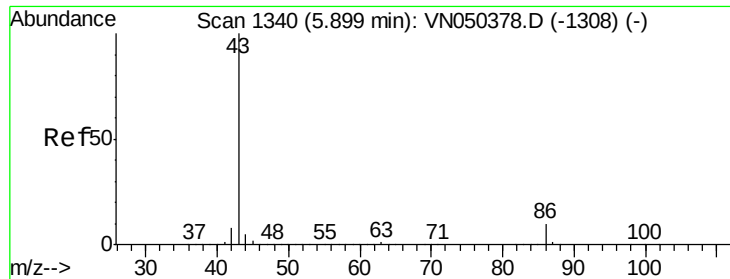
MMDadoda
8/14/2018 12:50:48 PM



#22
Diisopropyl ether
Concen: 18.92 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.0	45.7	68.5
87	28.7	22.7	34.1
59	11.8	9.5	14.3





#23

Vinyl Acetate

Concen: 83.41 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion: 43 Resp: 1478143

Ion Ratio Lower Upper

43 100

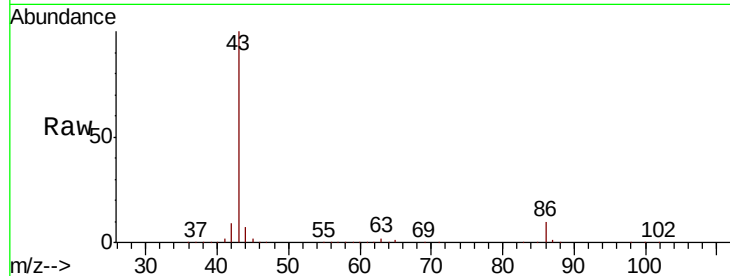
86 10.4 8.6 13.0

Manual Integrations

APPROVED

MMDadoda

8/14/2018 12:50:48 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

500000

400000

300000

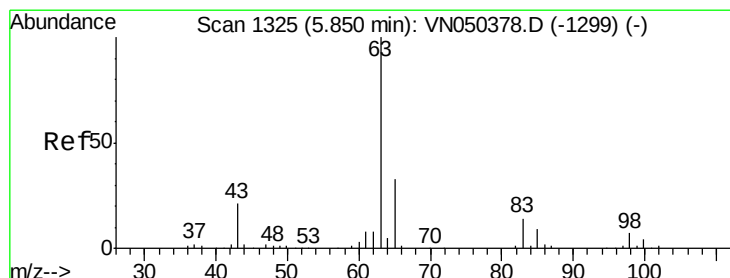
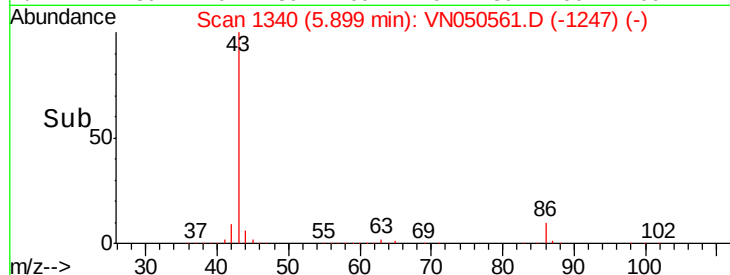
200000

100000

0

5.70 5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 18.42 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

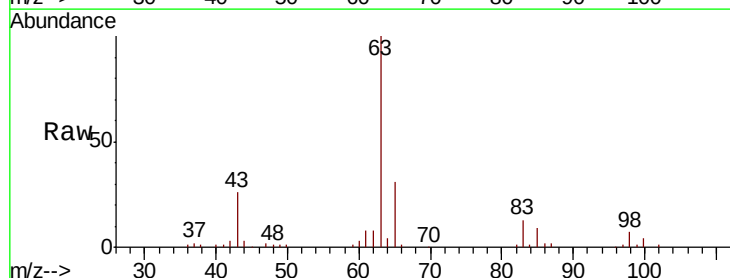
Tgt Ion: 63 Resp: 280730

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.8

100 4.4 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

120000

100000

80000

60000

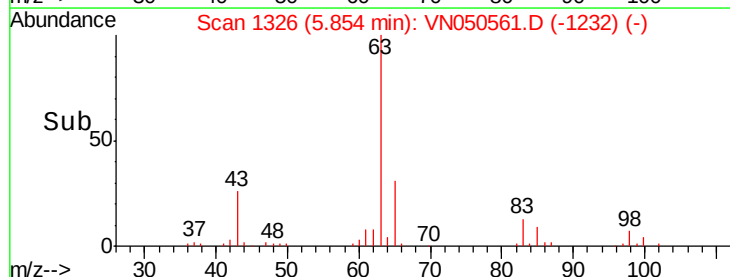
40000

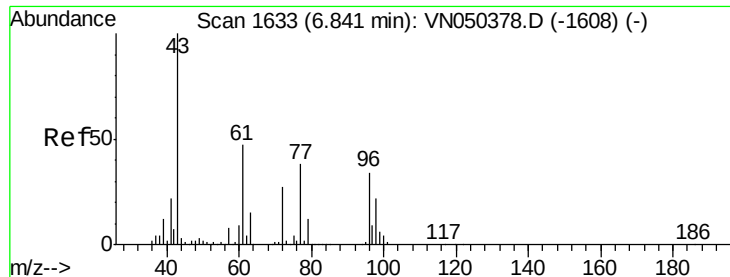
20000

0

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 75.00 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion: 43 Resp: 347764

Ion Ratio Lower Upper

43 100

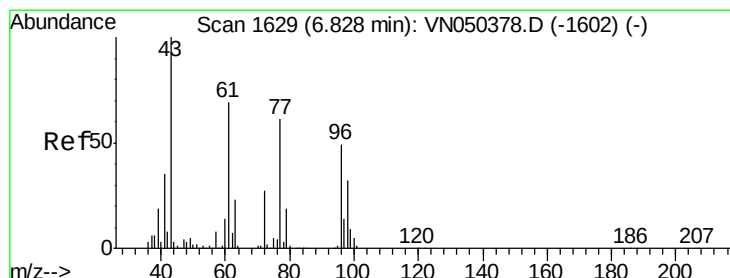
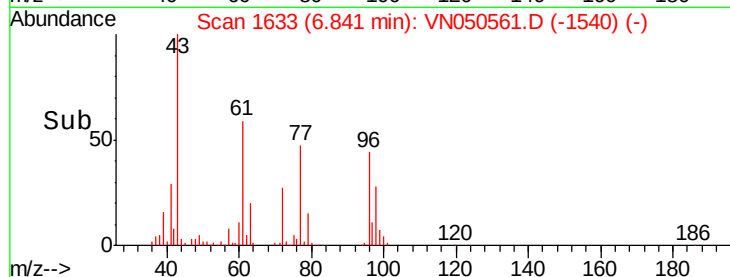
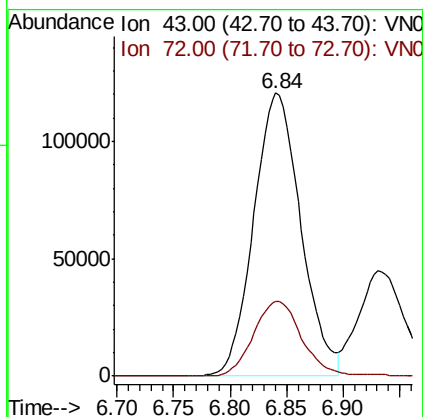
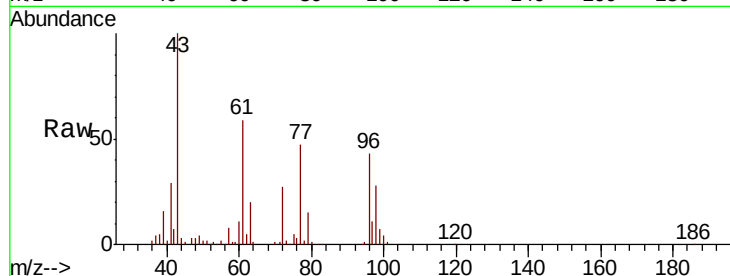
72 26.6 21.5 32.3

Manual Integrations

APPROVED

MMDadoda

8/14/2018 12:50:48 PM



#26

2,2-Dichloropropane

Concen: 18.17 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN050561.D

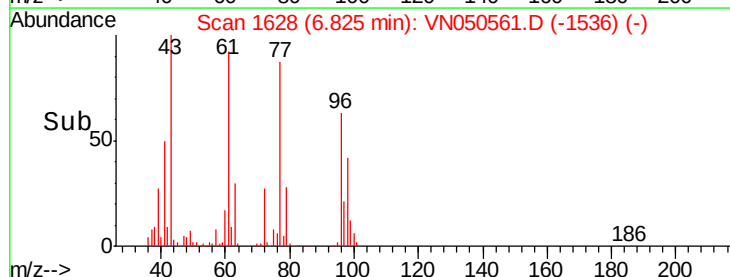
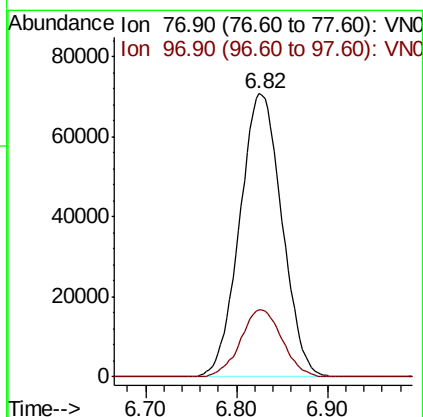
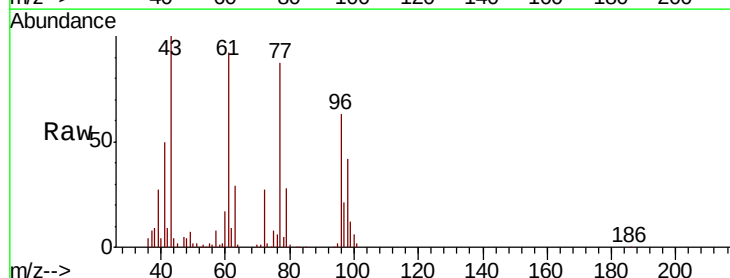
Acq: 13 Aug 2018 12:16

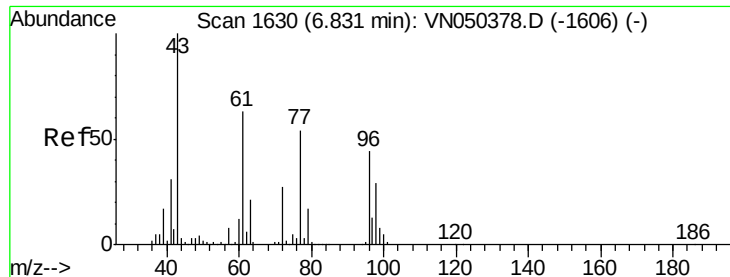
Tgt Ion: 77 Resp: 228269

Ion Ratio Lower Upper

77 100

97 23.4 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 18.21 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050561.D

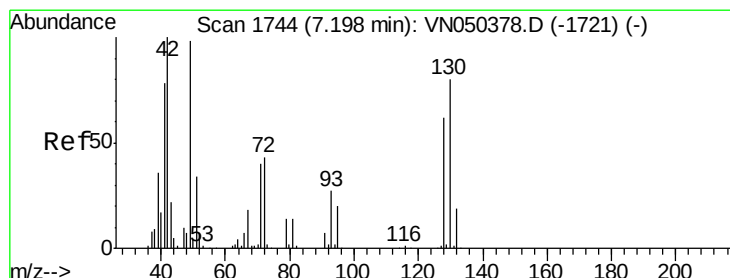
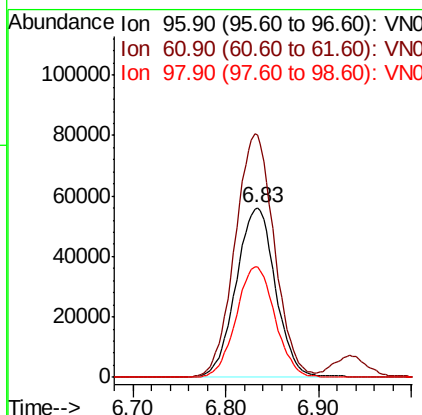
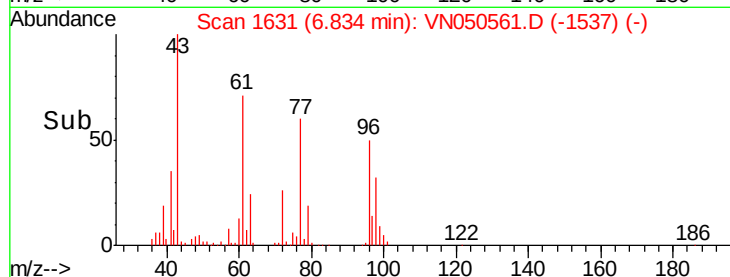
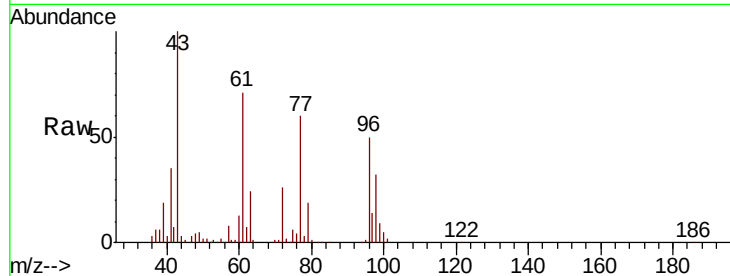
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampled :
VN0813MBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	165357		
61	143.5	0.0	285.0	
98	64.3	0.0	129.2	

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#28

Bromochloromethane

Concen: 17.81 ug/l

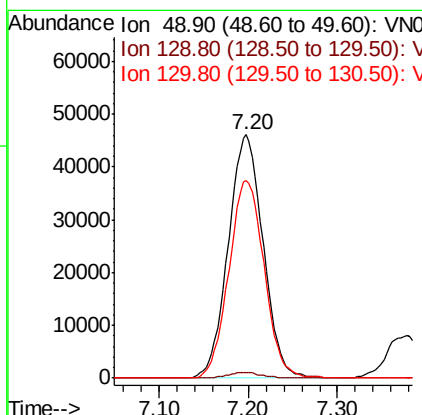
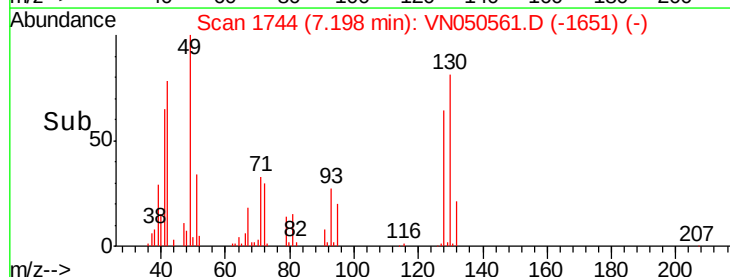
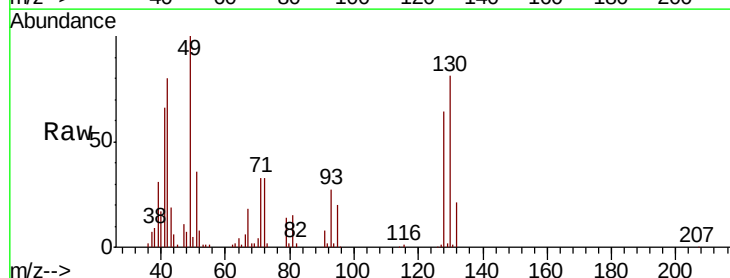
RT: 7.20 min Scan# 1744

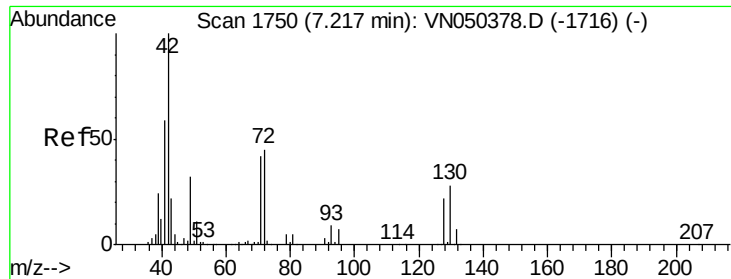
Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	124967		
129	2.2	0.0	4.0	
130	82.4	66.3	99.5	





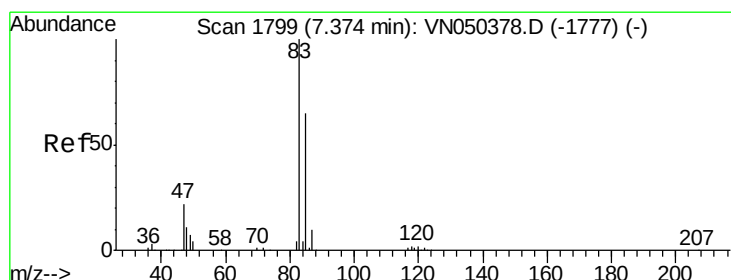
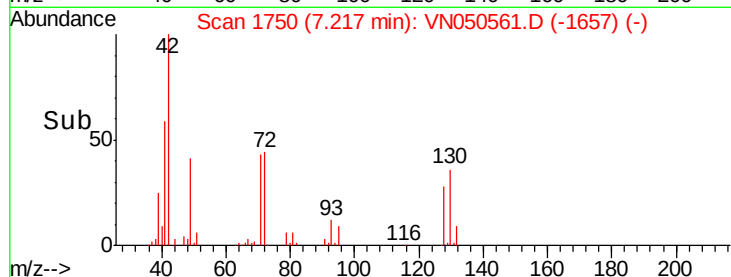
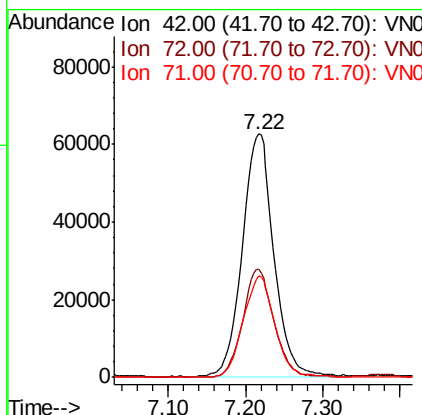
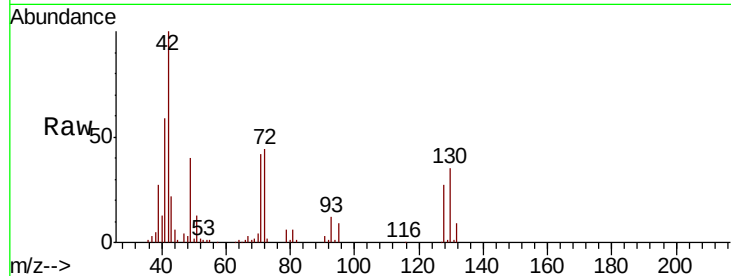
#29
Tetrahydrofuran
Concen: 72.34 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.4	35.9	53.9
71	40.9	33.7	50.5

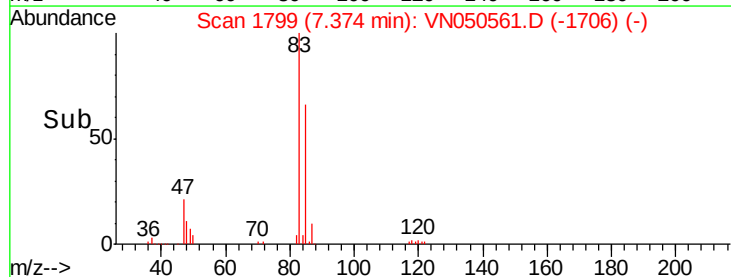
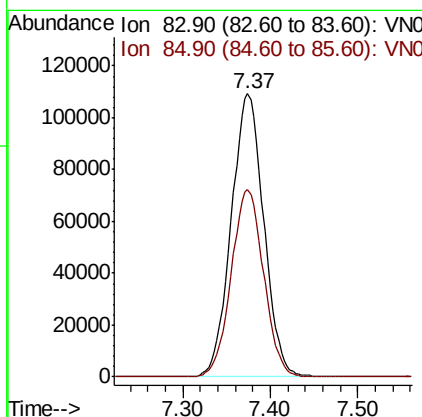
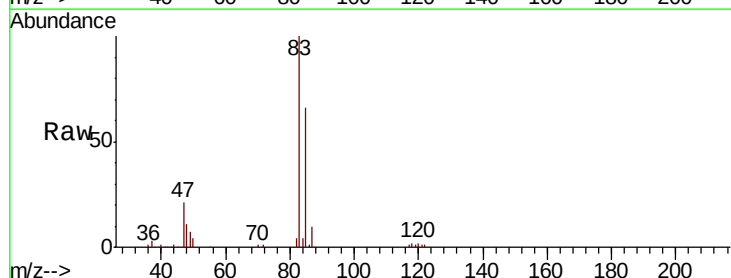
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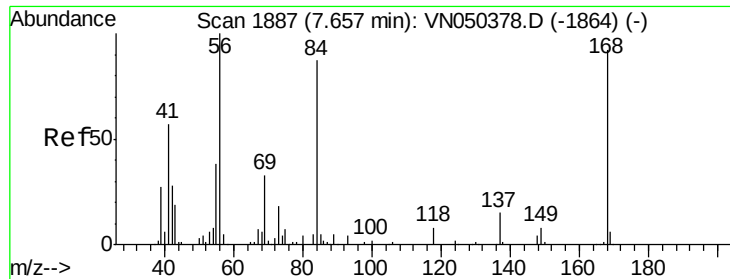
MMDadoda
8/14/2018 12:50:48 PM



#30
Chloroform
Concen: 18.52 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.5	78.7





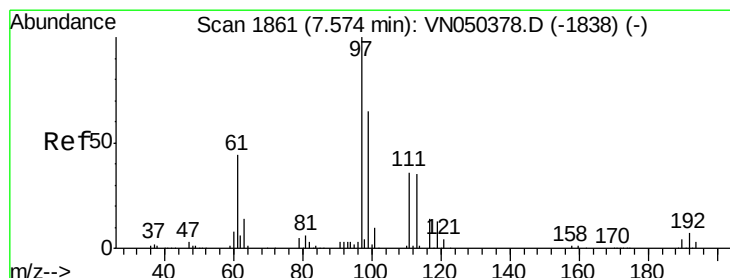
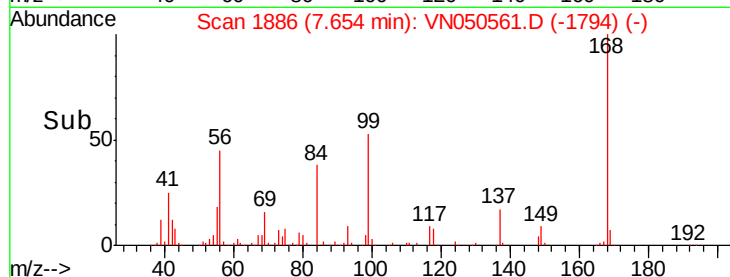
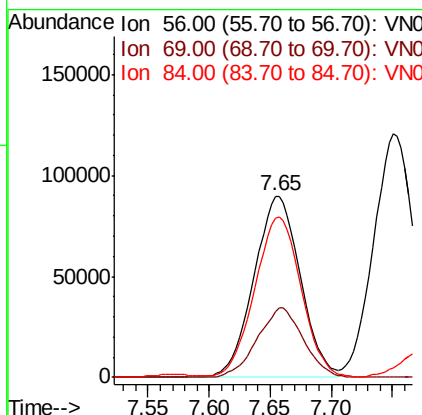
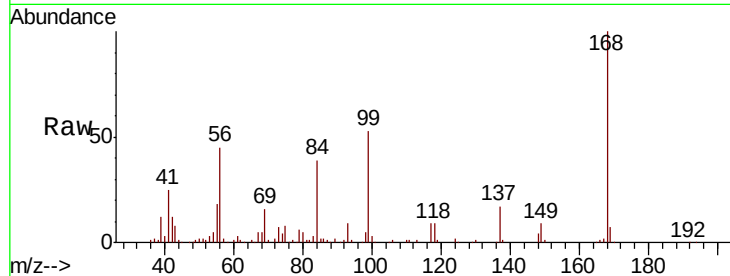
#31
Cyclohexane
Concen: 17.28 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.2	26.2	39.4
84	86.3	67.4	101.0

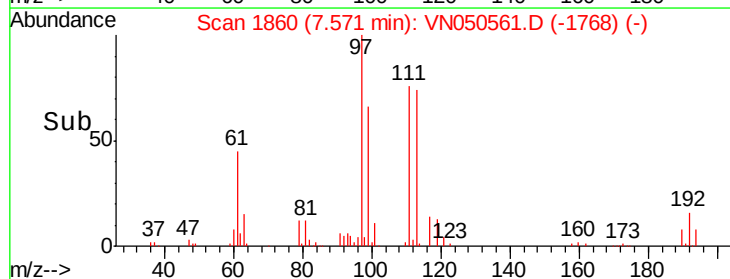
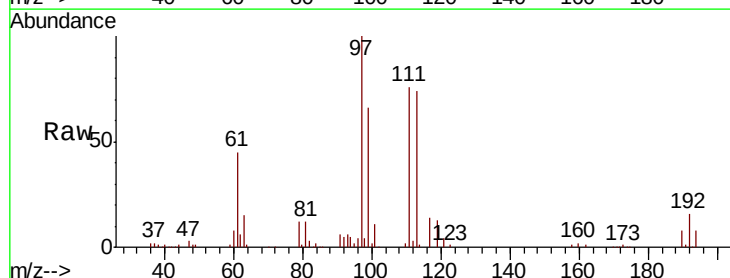
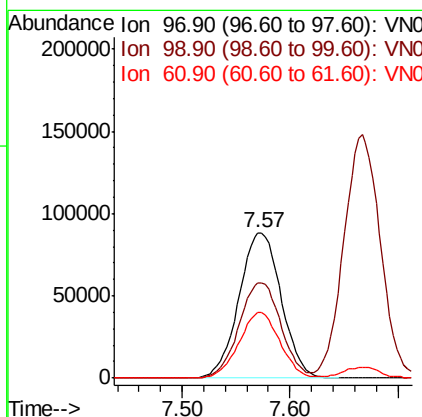
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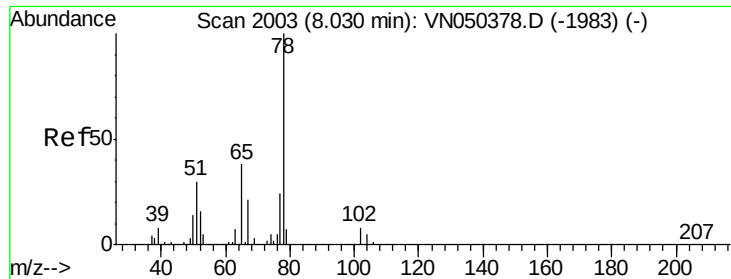
MMDadoda
8/14/2018 12:50:48 PM



#32
1,1,1-Trichloroethane
Concen: 18.35 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.4	77.0
61	43.8	35.4	53.0





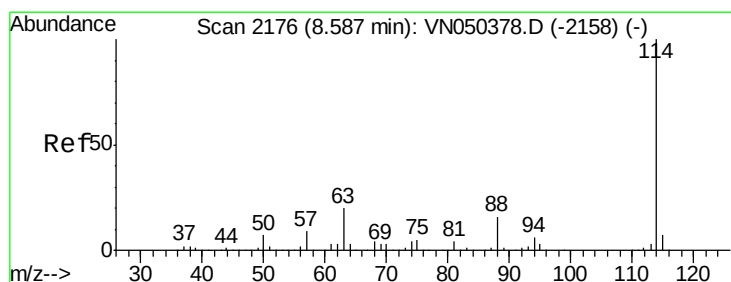
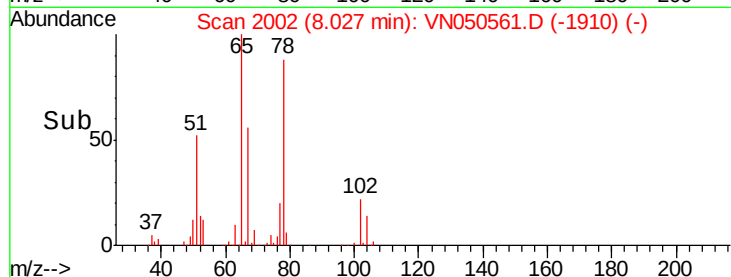
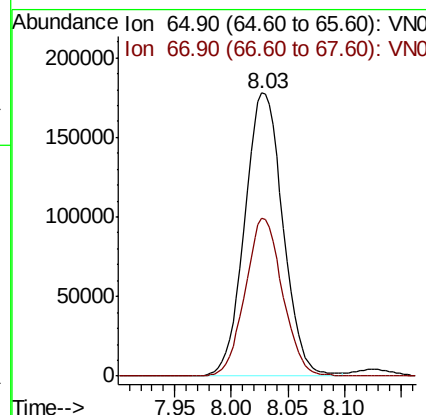
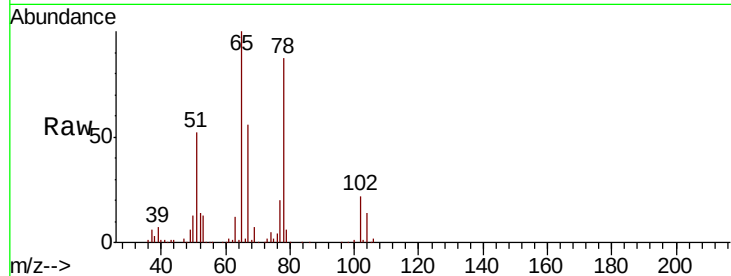
#33
 1,2-Dichloroethane-d4
 Concen: 44.79 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.2	0.0	108.4	

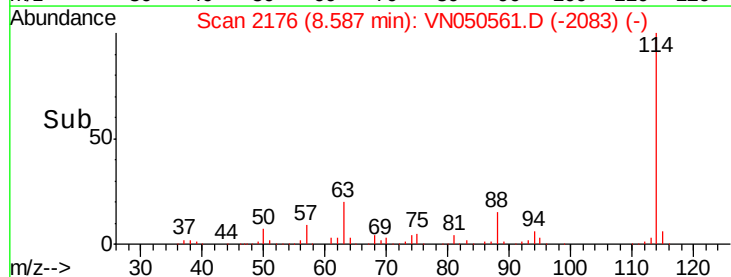
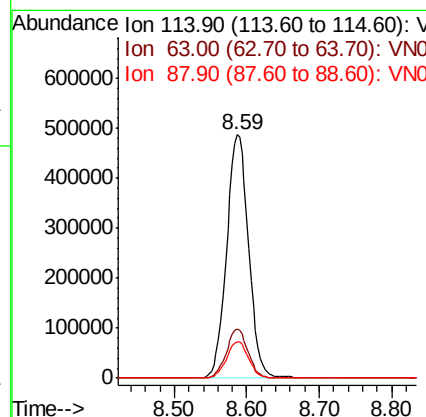
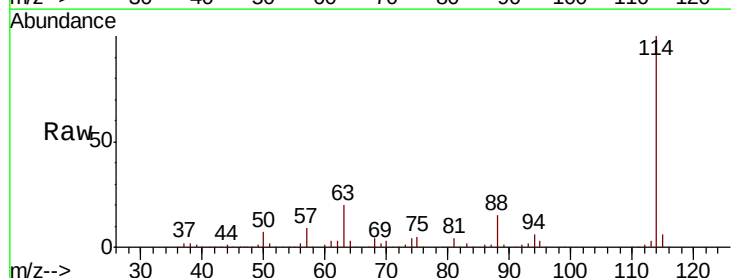
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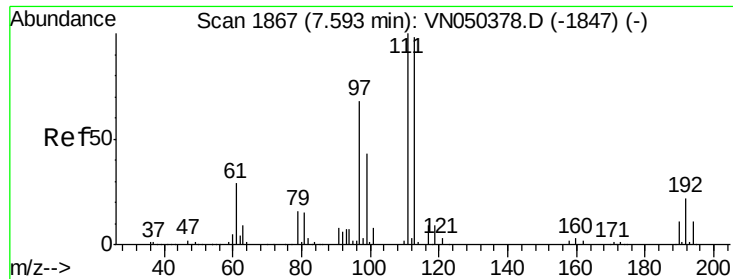
MMDadoda
 8/14/2018 12:50:48 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.2	0.0	40.0	
88	15.1	0.0	31.2	





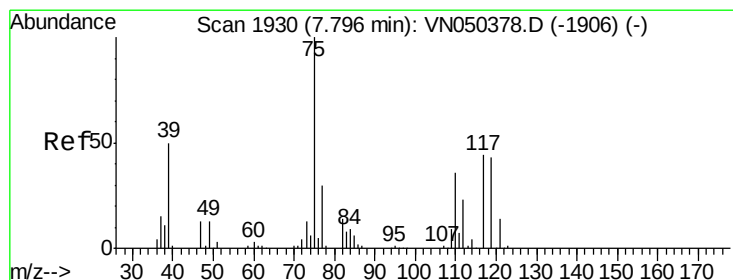
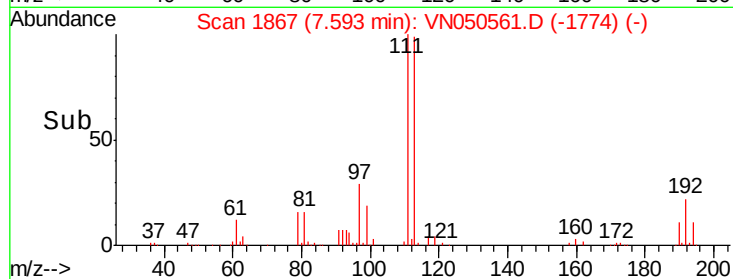
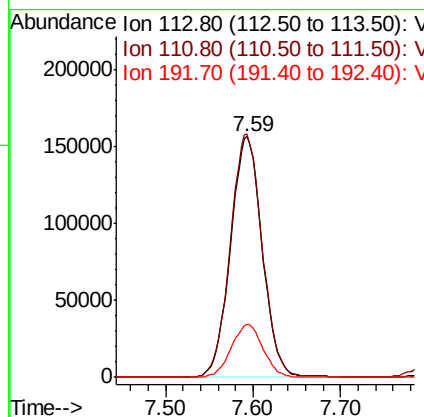
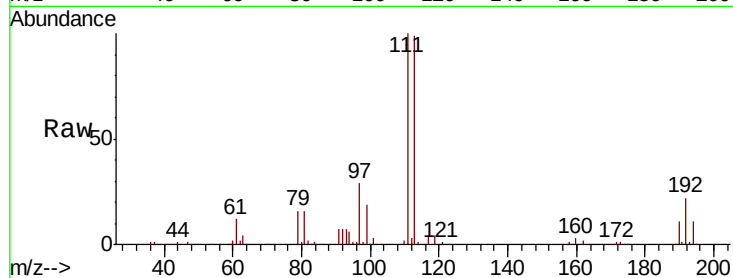
#35
 Dibromofluoromethane
 Concen: 47.96 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	392957		
111	101.9	80.7	121.1	
192	21.9	17.8	26.6	

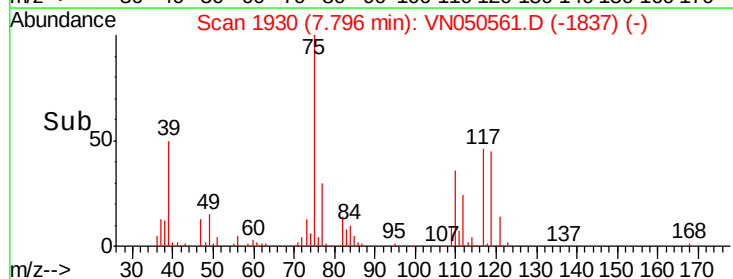
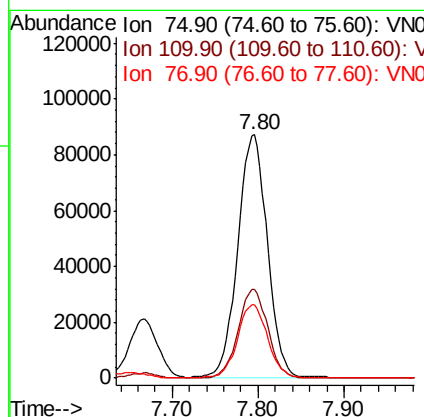
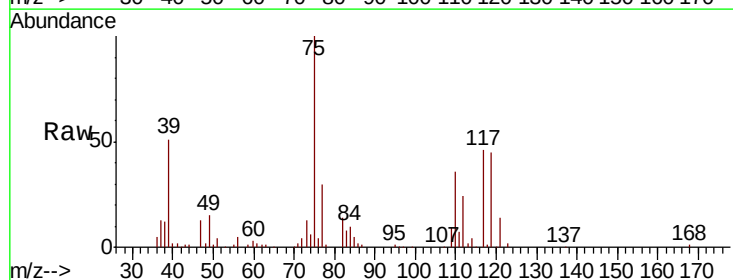
Manual Integrations
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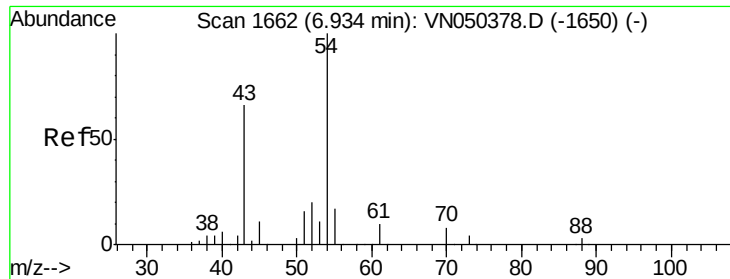
MMDadoda
 8/14/2018 12:50:48 PM



#36
 1,1-Dichloropropene
 Concen: 18.56 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	208214		
110	36.5	18.4	55.2	
77	30.9	25.3	37.9	





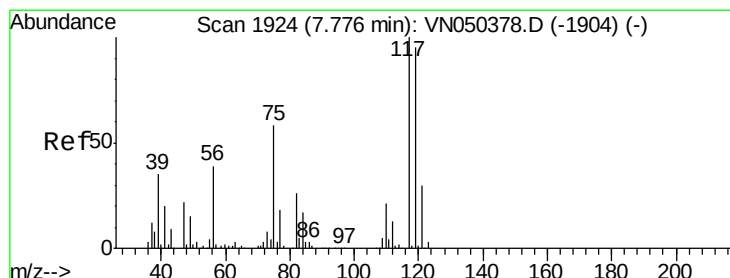
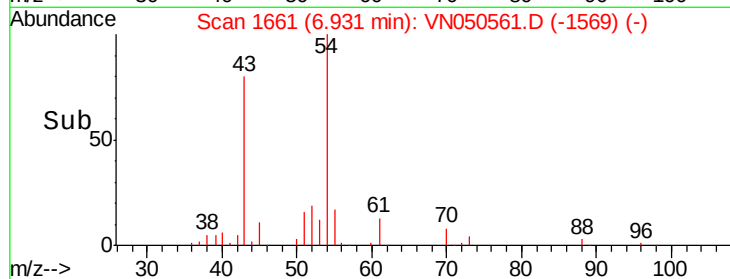
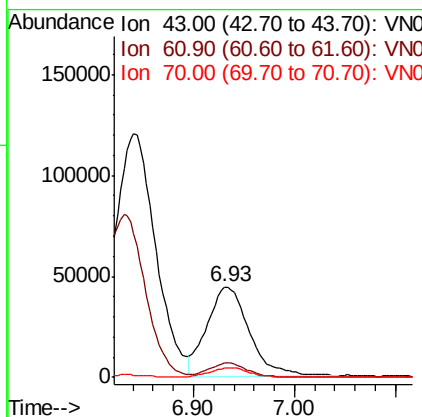
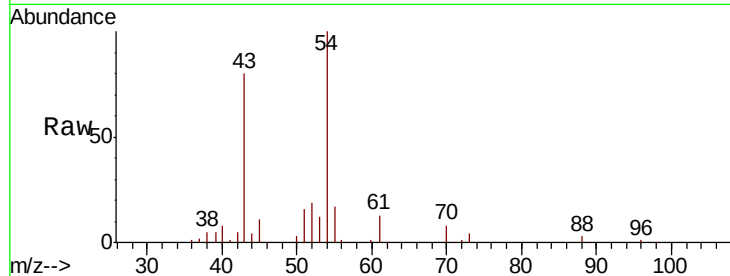
#37
Ethyl Acetate
Concen: 15.93 ug/l
RT: 6.93 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.8	17.8
70	10.4	8.4	12.6

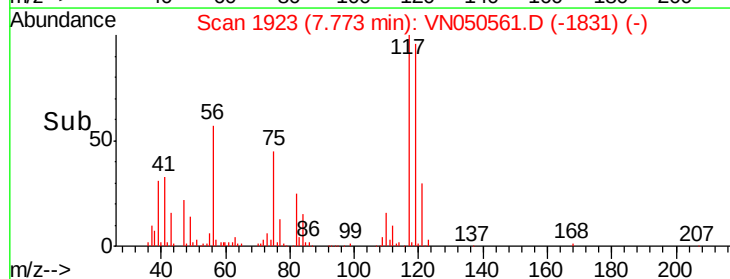
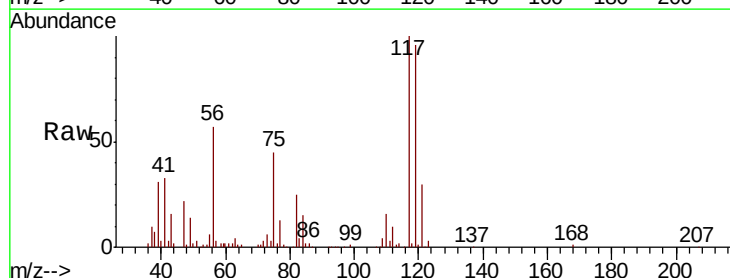
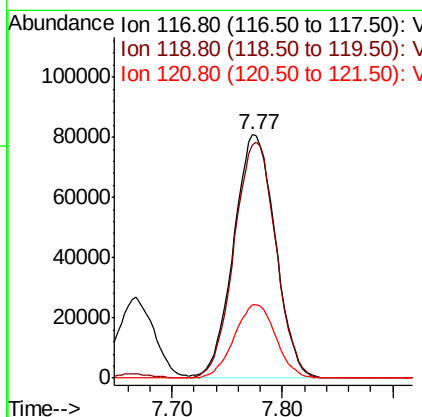
Manual Integrations
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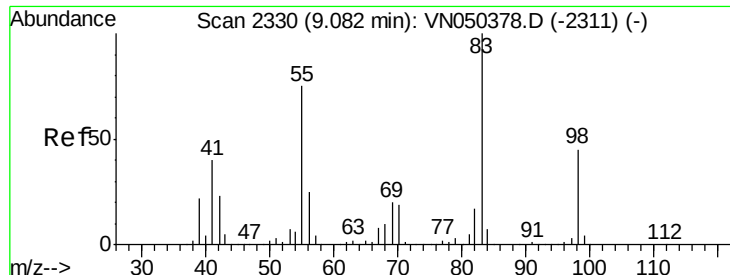
MMDadoda
8/14/2018 12:50:48 PM



#38
Carbon Tetrachloride
Concen: 18.11 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	77.4	116.0
121	30.0	23.9	35.9





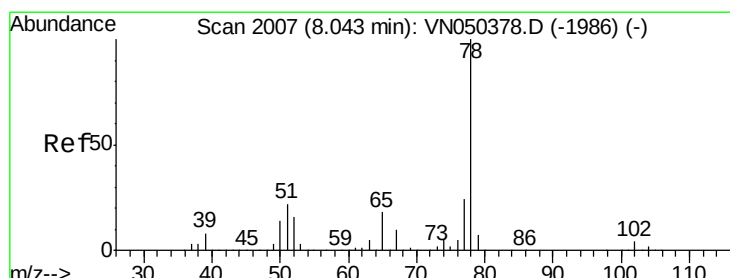
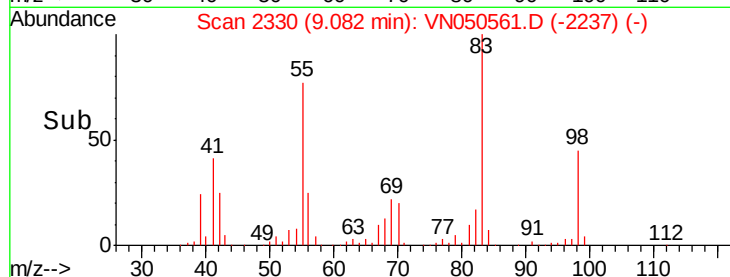
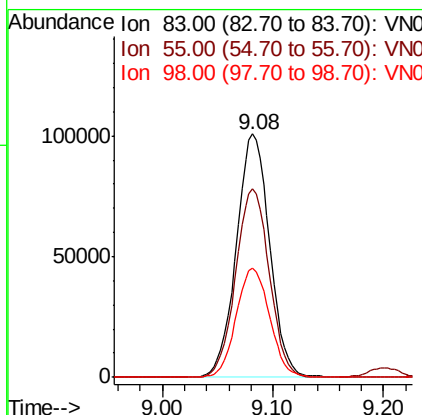
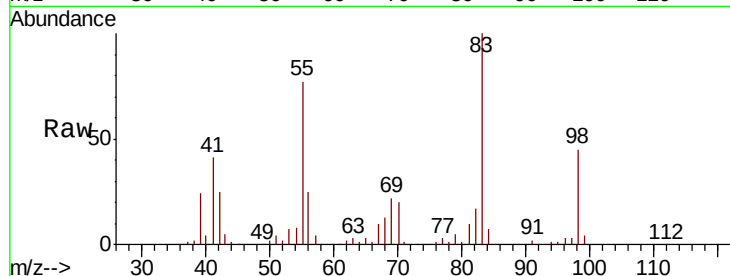
#39
Methylvlcyclohexane
Concen: 17.19 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampled :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.3	61.8	92.8
98	44.8	36.5	54.7

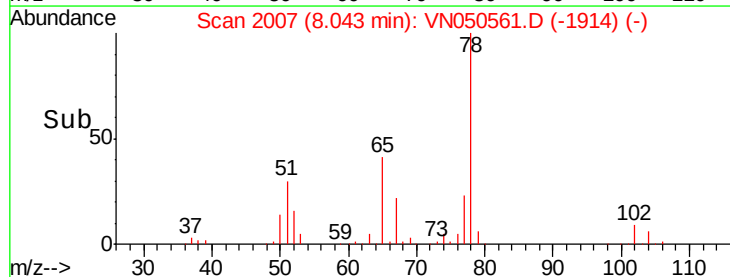
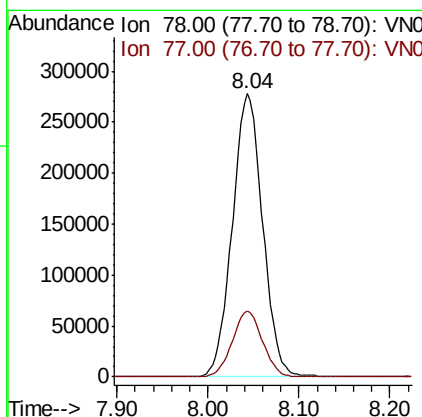
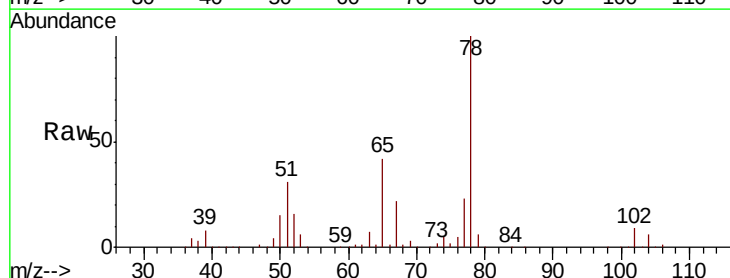
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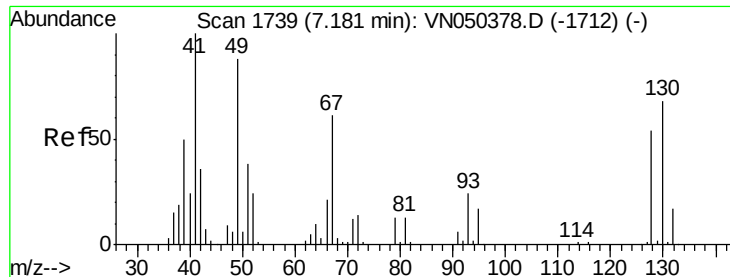
MMDadoda
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#40
Benzene
Concen: 18.64 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1





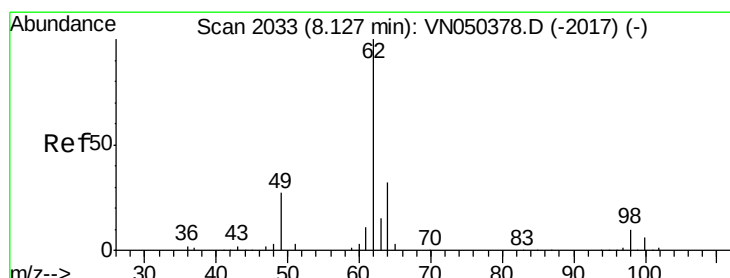
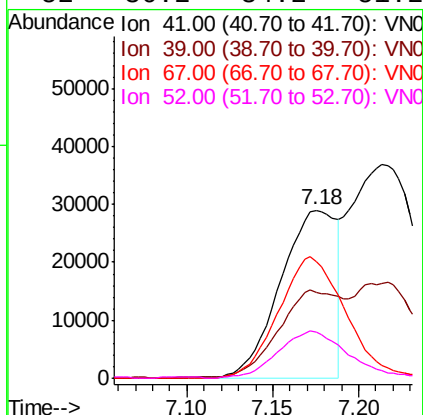
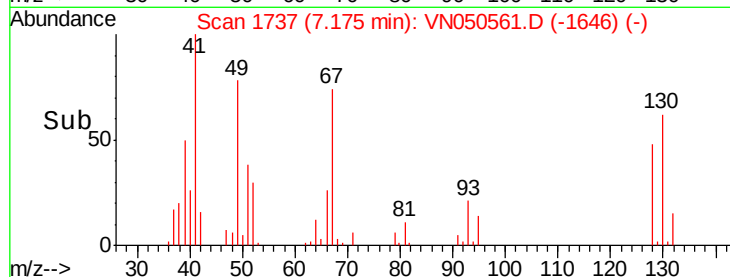
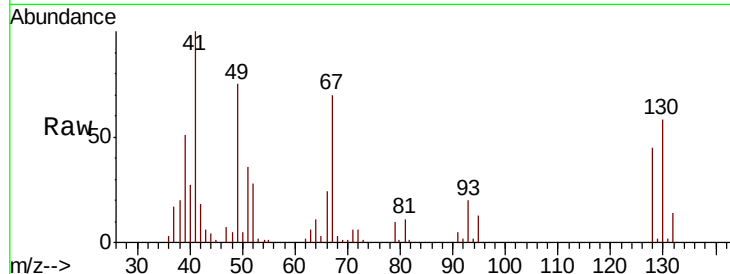
#41
Methacrylonitrile
Concen: 15.34 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.01 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion:	41	Resp:	65929
Ion	Ratio	Lower	Upper
41	100		
39	60.0	55.8	83.6
67	87.0	84.3	126.5
52	36.2	34.2	51.2

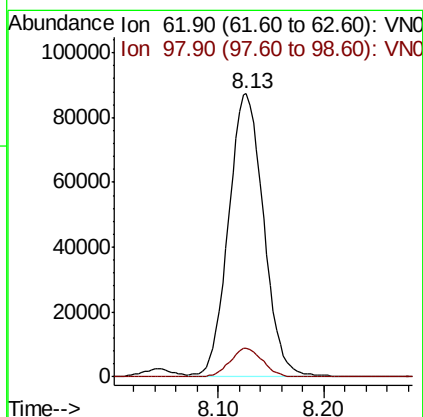
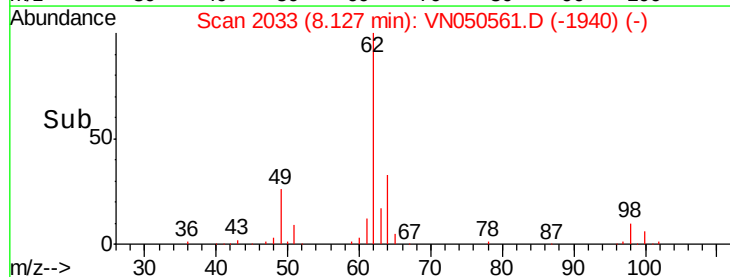
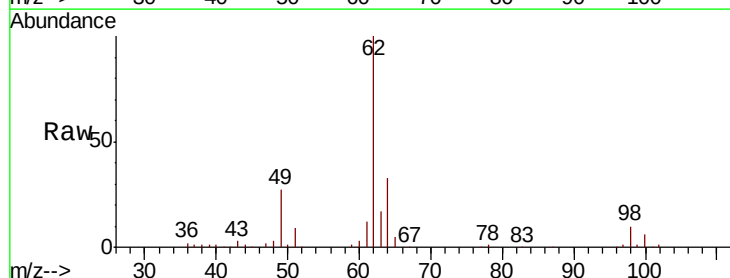
Manual Integrations
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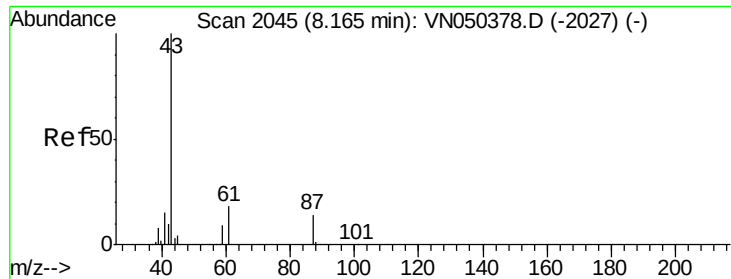
MMDadoda
8/14/2018 12:50:48 PM



#42
1,2-Dichloroethane
Concen: 18.30 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion:	62	Resp:	200417
Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.8





#43

Isopropyl Acetate

Concen: 15.74 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

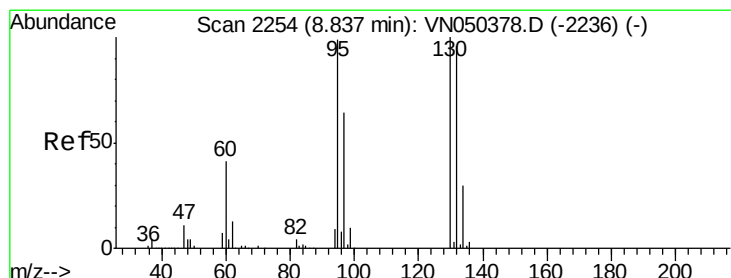
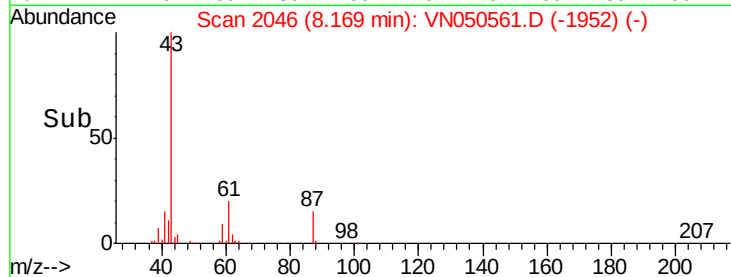
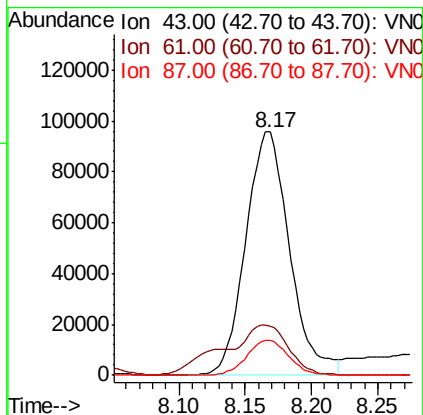
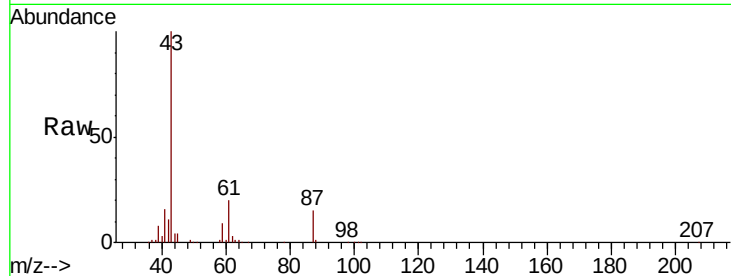
ClientSampleId :

VN0813MBS01

Tot Ion:	43	Resp:	219574
Ion	Ratio	Lower	Upper
43	100		
61	20.6	15.8	23.6
87	13.9	10.3	15.5

Manual Integrations
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MMDadoda
8/14/2018 12:50:48 PM



#44

Trichloroethene

Concen: 18.02 ug/l

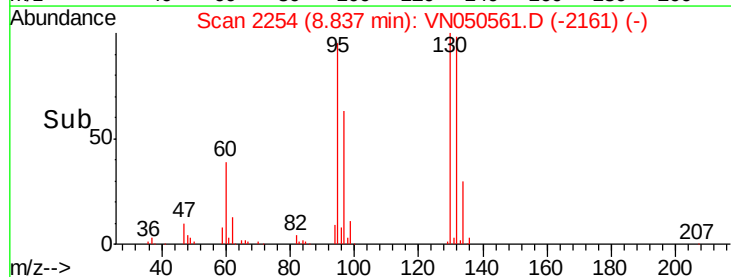
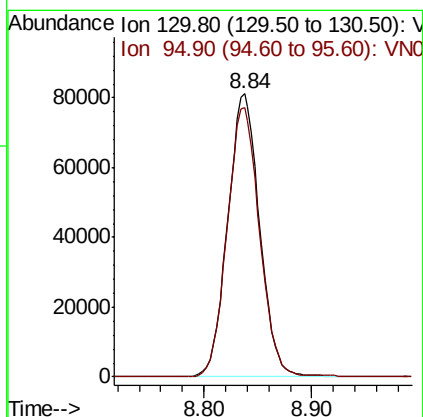
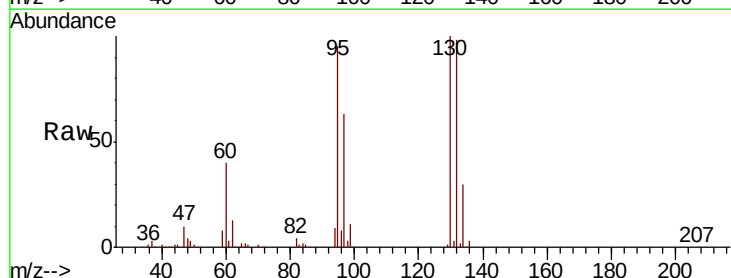
RT: 8.84 min Scan# 2254

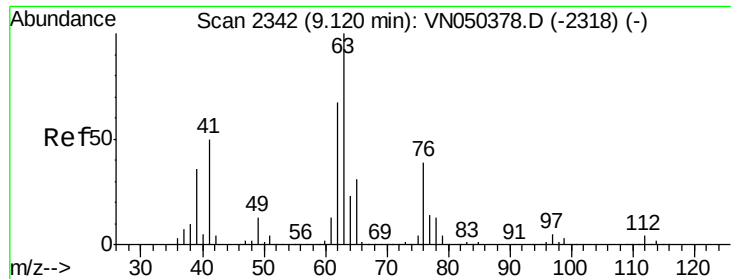
Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Tgt Ion:	130	Resp:	166987
Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	194.6





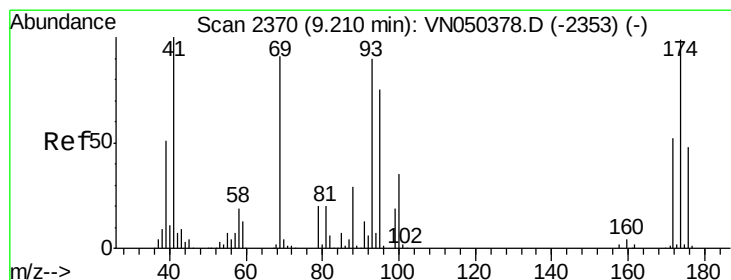
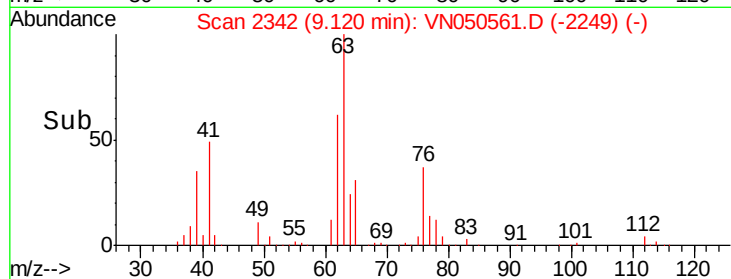
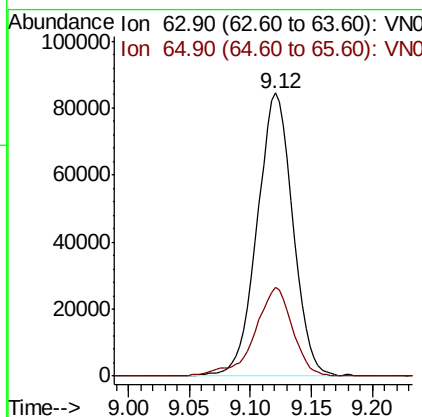
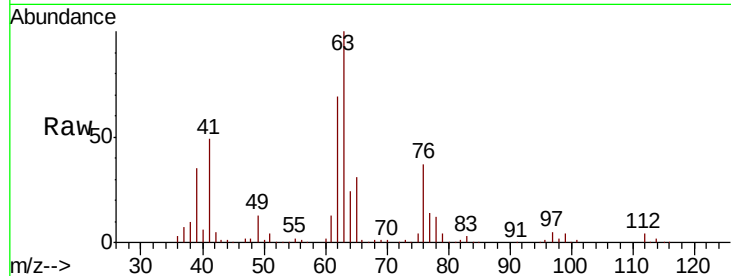
#45
 1,2-Dichloropropane
 Concen: 18.95 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.5	38.3

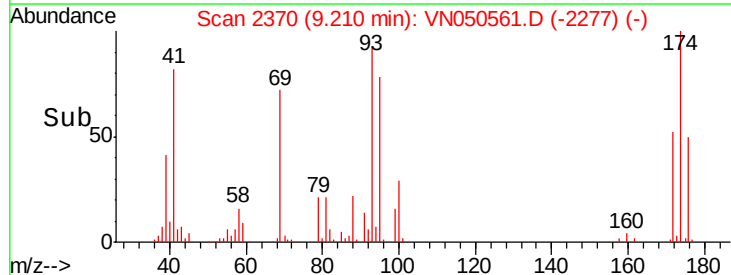
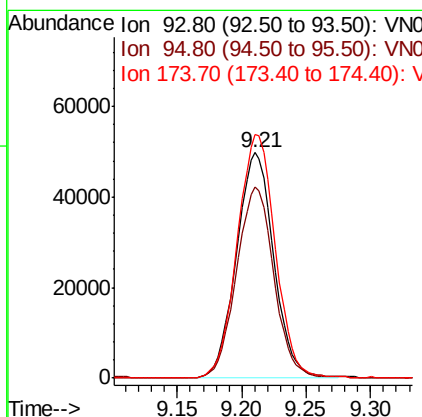
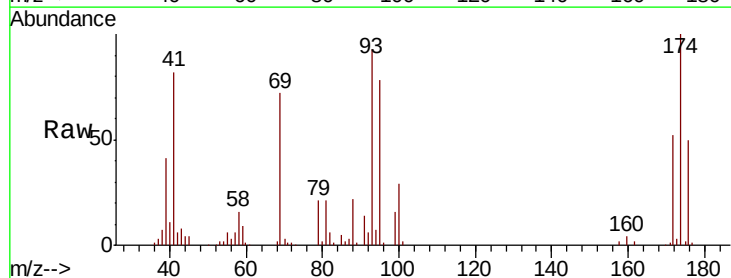
Manual Integrations
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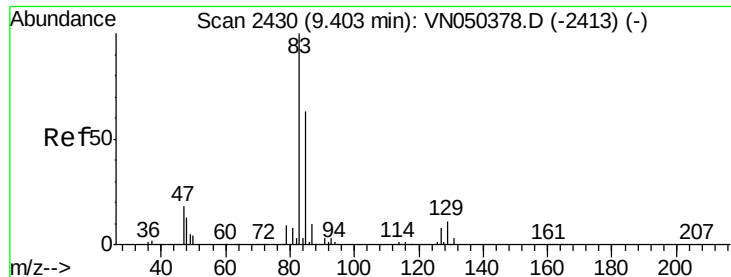
MMDadoda
 8/14/2018 12:50:48 PM



#46
 Dibromomethane
 Concen: 17.92 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.7	66.6	100.0
174	110.2	87.1	130.7





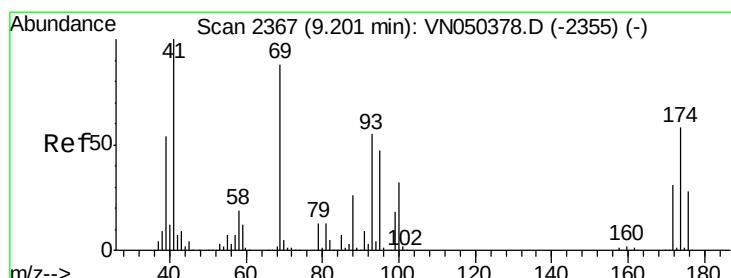
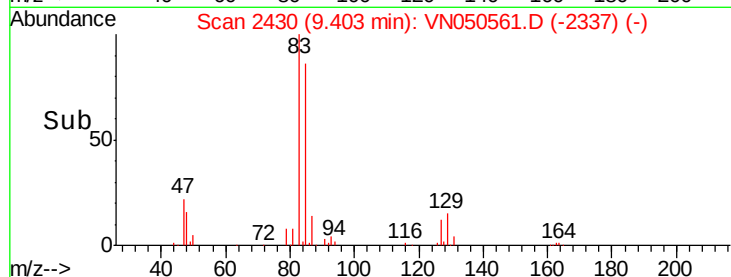
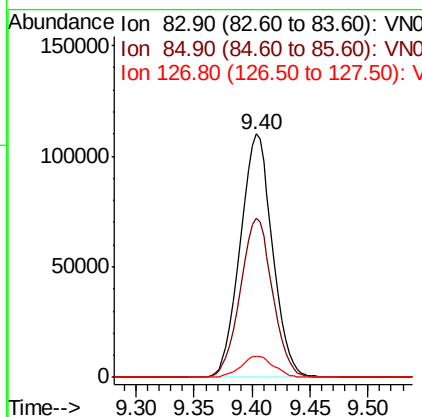
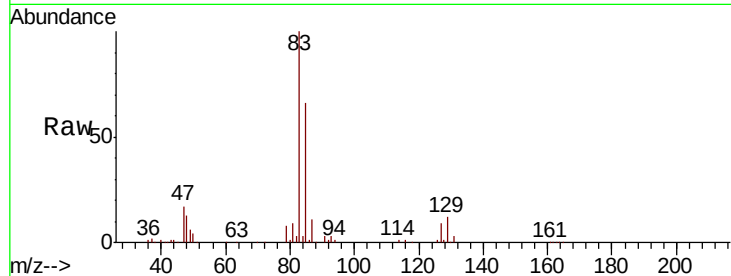
#47
Bromodichloromethane
Concen: 18.34 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.1	76.7
127	8.8	7.0	10.4

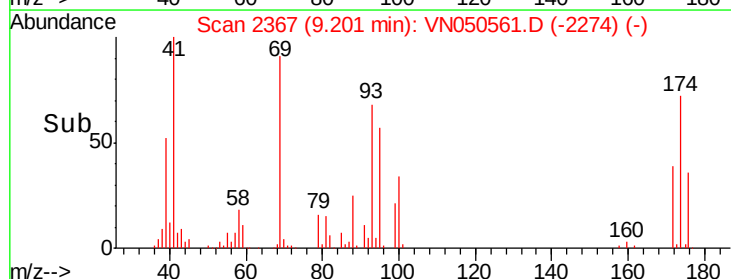
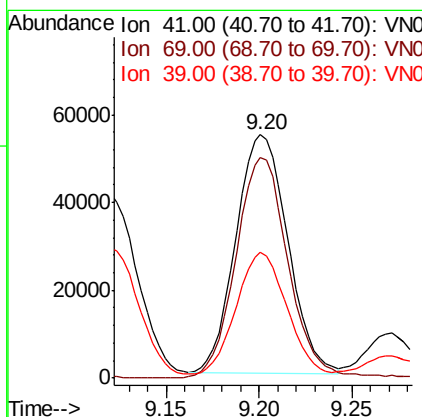
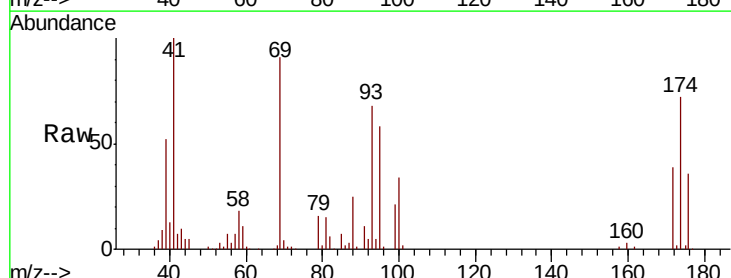
Manual Integrations
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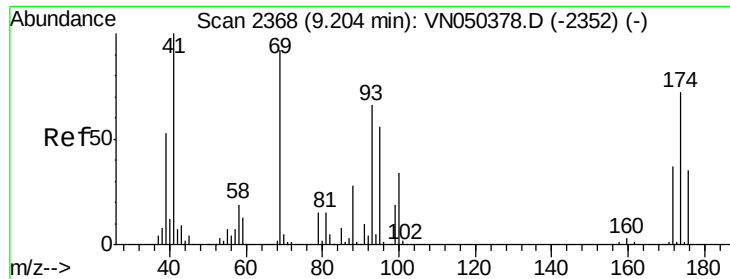
MMDadoda
8/14/2018 12:50:48 PM



#48
Methyl methacrylate
Concen: 15.13 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
41	100		
69	93.7	70.6	105.8
39	52.3	43.9	65.9





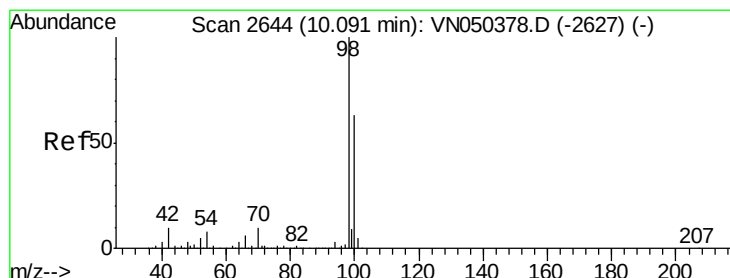
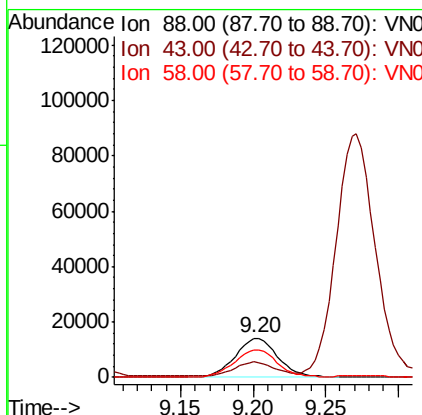
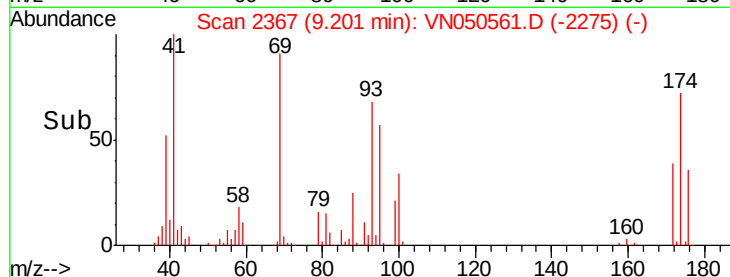
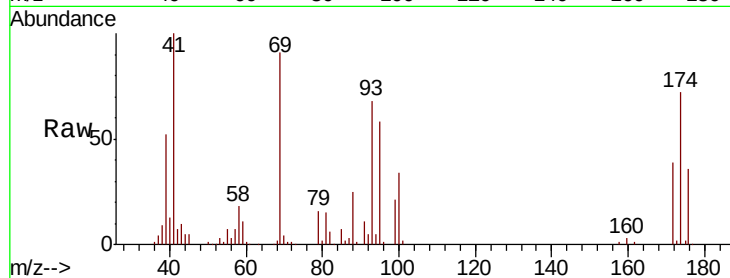
#49
 1,4-Dioxane
 Concen: 267.59 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.1	26.9	40.3
58	72.2	57.3	85.9

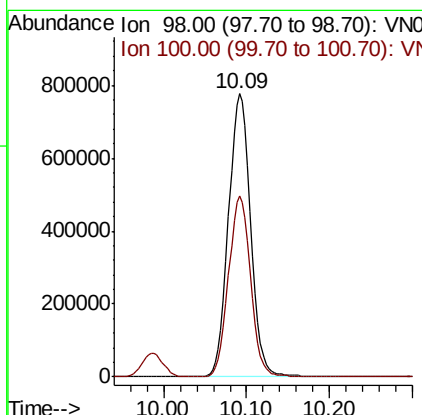
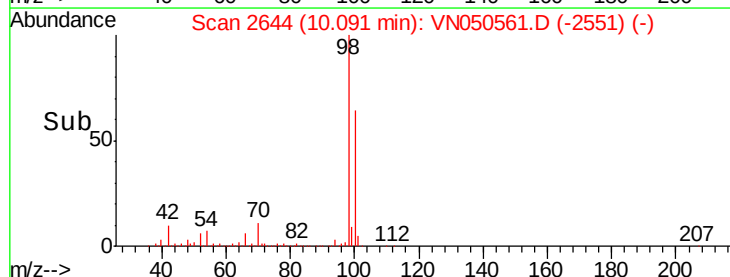
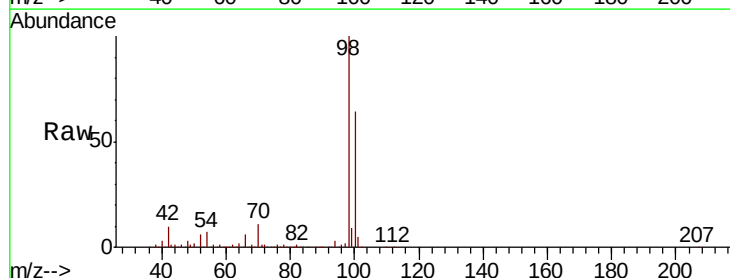
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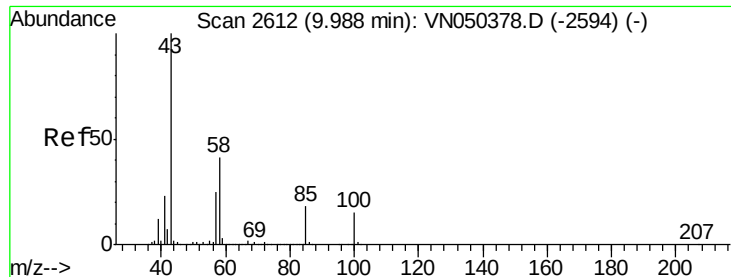
MMDadoda
 8/14/2018 12:50:48 PM



#50
 Toluene-d8
 Concen: 47.00 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	50.7	76.1





#51

4-Methyl-2-Pentanone

Concen: 77.41 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion: 43 Resp: 777642

Ion Ratio Lower Upper

43 100

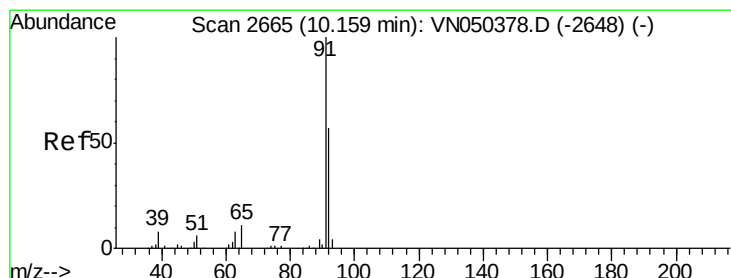
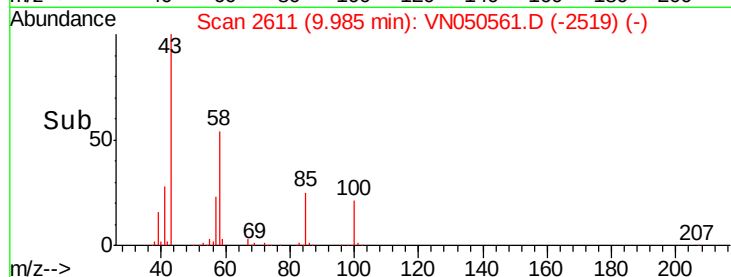
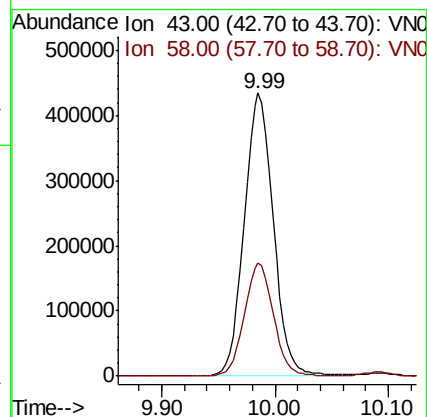
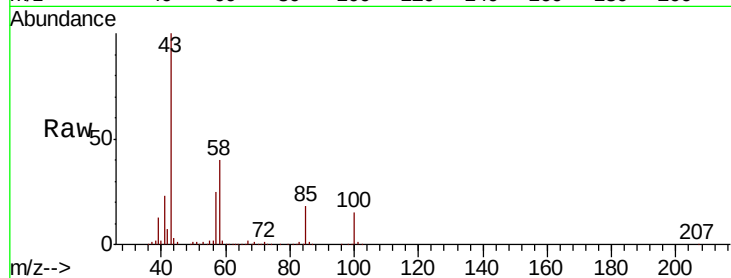
58 39.9 31.9 47.9

Manual Integrations

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MMDadoda

8/14/2018 12:50:48 PM



#52

Toluene

Concen: 19.06 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050561.D

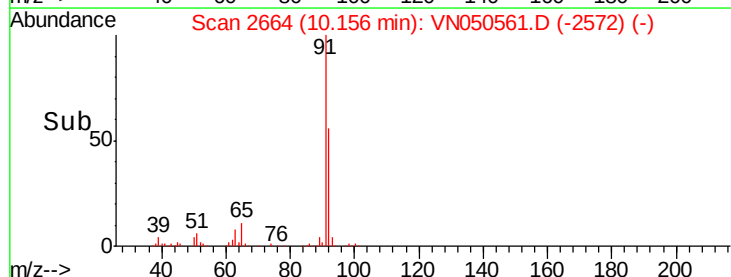
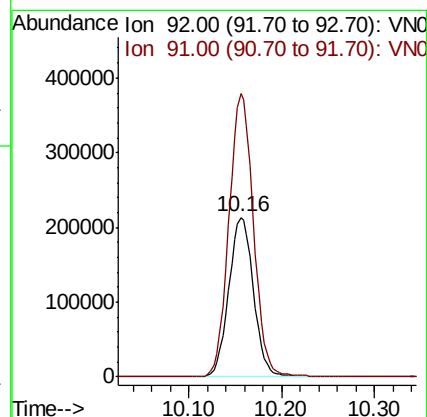
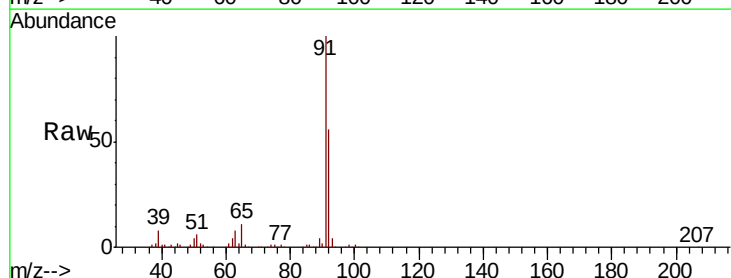
Acq: 13 Aug 2018 12:16

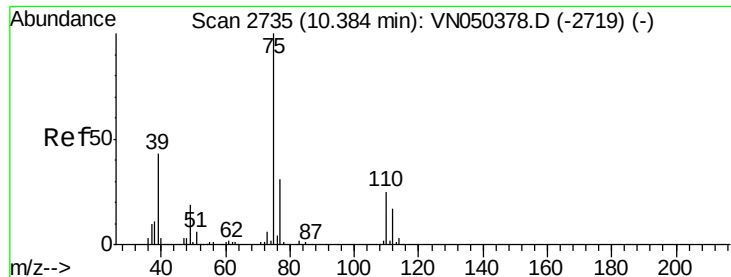
Tgt Ion: 92 Resp: 394982

Ion Ratio Lower Upper

92 100

91 175.9 140.3 210.5





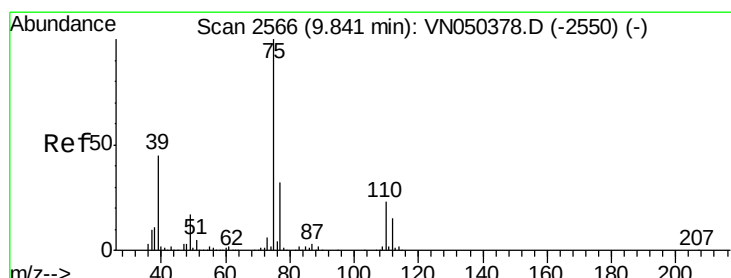
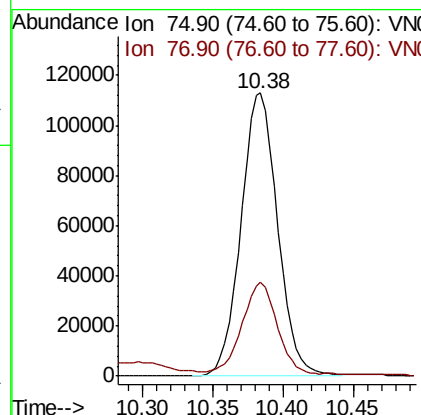
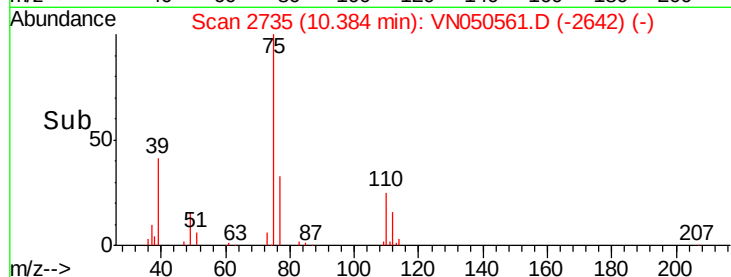
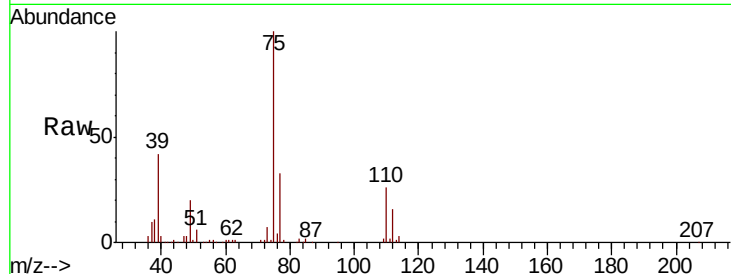
#53
t-1,3-Dichloropropene
Concen: 17.66 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.9	37.3

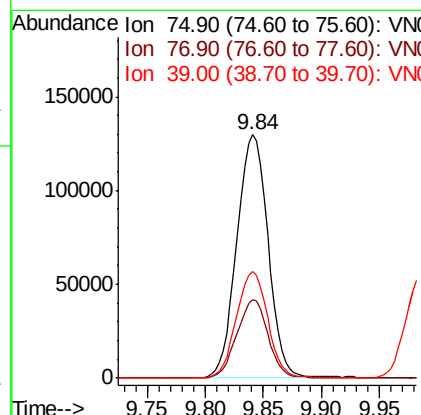
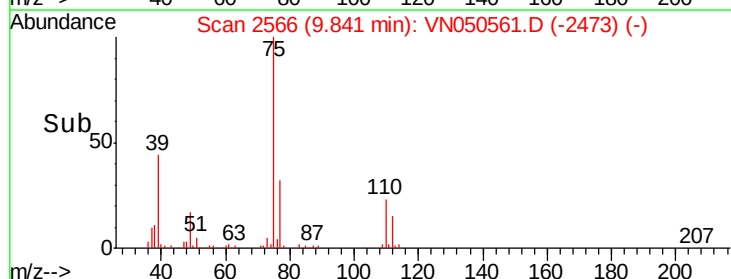
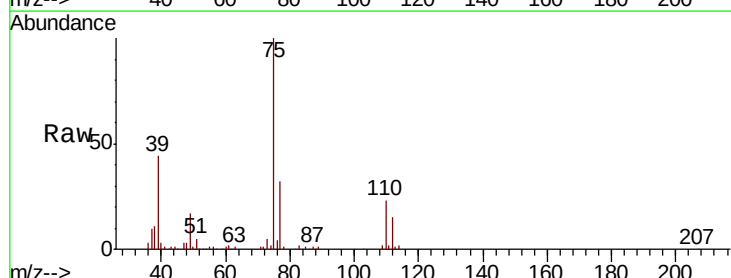
Manual Integrations
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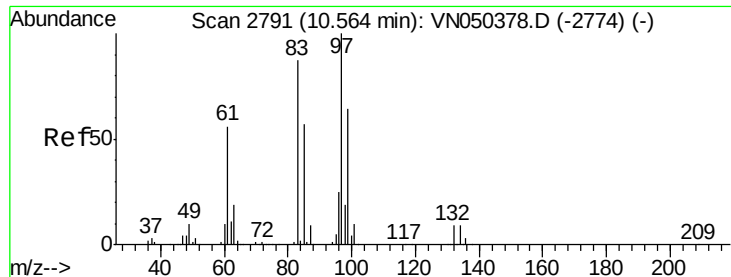
MMDadoda
8/14/2018 12:50:48 PM



#54
cis-1,3-Dichloropropene
Concen: 18.77 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.5	38.3
39	43.8	36.6	55.0





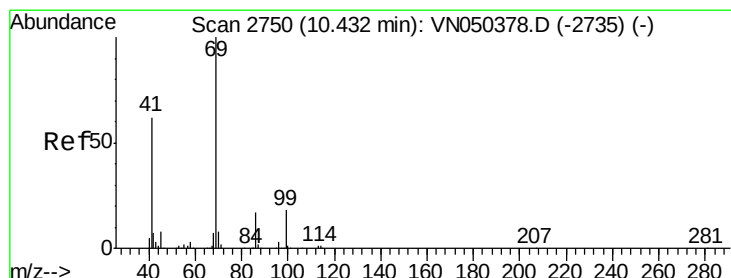
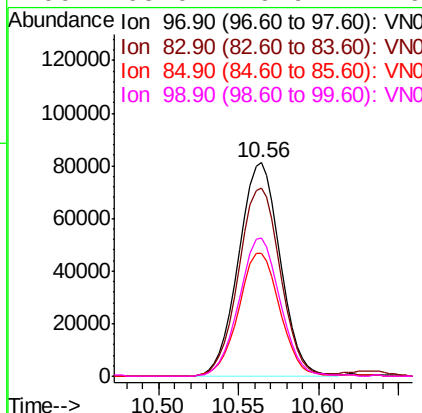
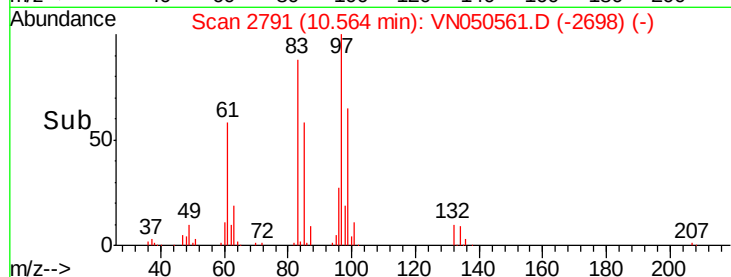
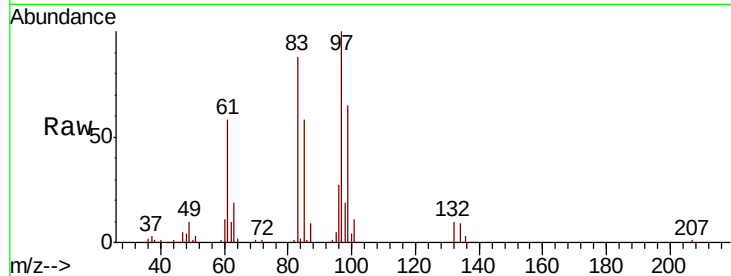
#55
 1,1,2-Trichloroethane
 Concen: 17.86 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		144462		
83	88.2	69.2	103.8		
85	57.7	44.0	66.0		
99	65.0	49.9	74.9		

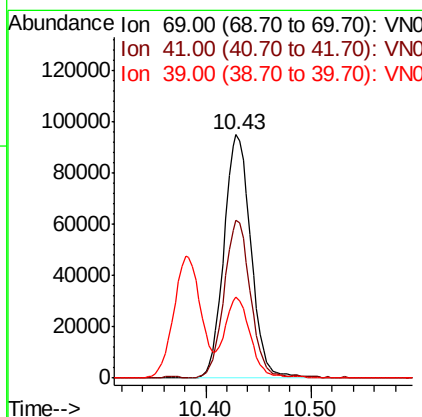
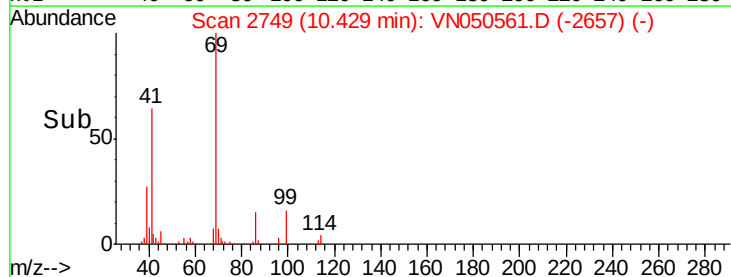
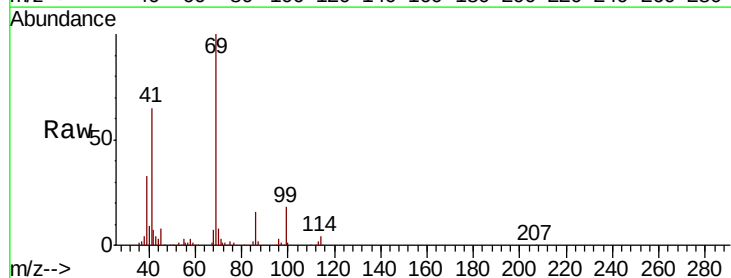
Manual Integrations
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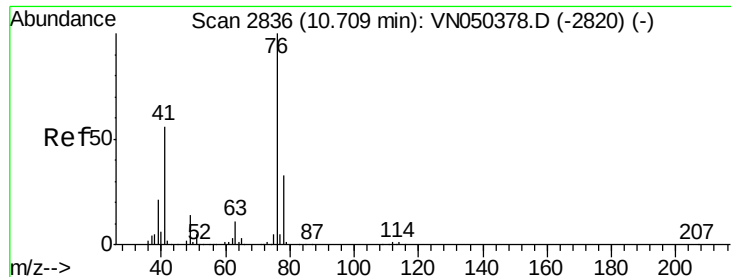
MMDadoda
 8/14/2018 12:50:48 PM



#56
 Ethyl methacrylate
 Concen: 15.84 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		167491		
41	62.5	51.0	76.4		
39	30.9	26.6	40.0		





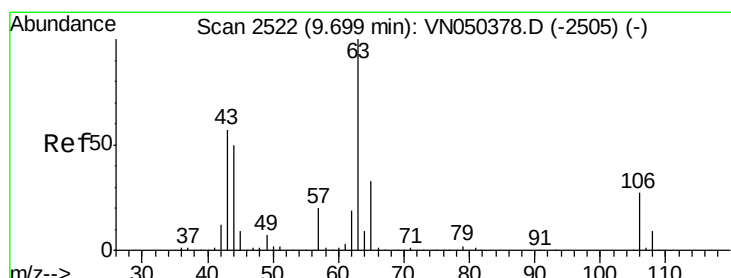
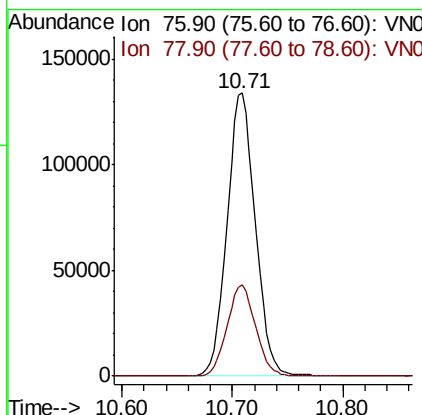
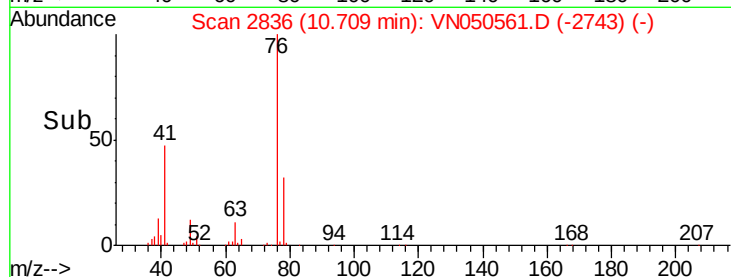
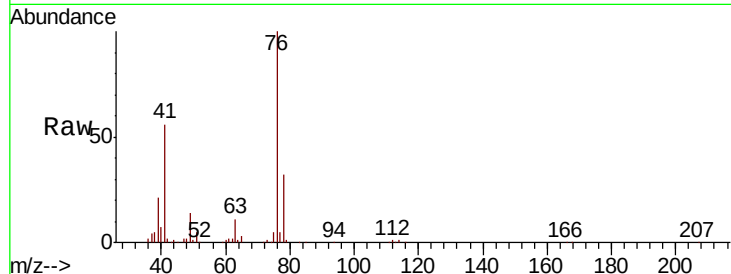
#57
 1,3-Dichloropropane
 Concen: 17.91 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion: 76 Resp: 237740
 Ion Ratio Lower Upper
 76 100
 78 32.6 25.7 38.5

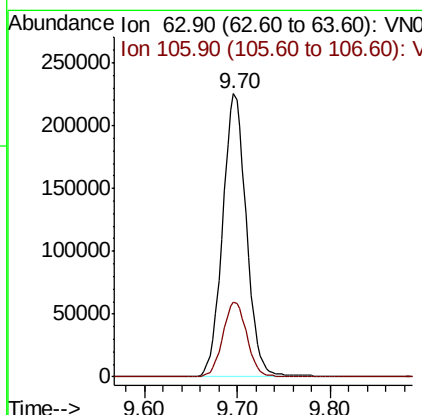
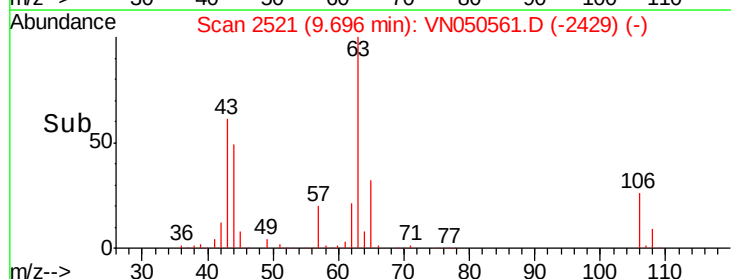
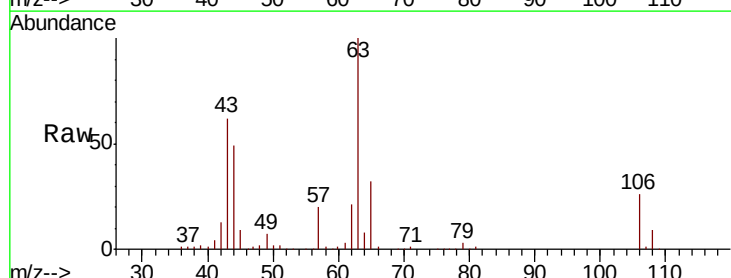
Manual Integrations
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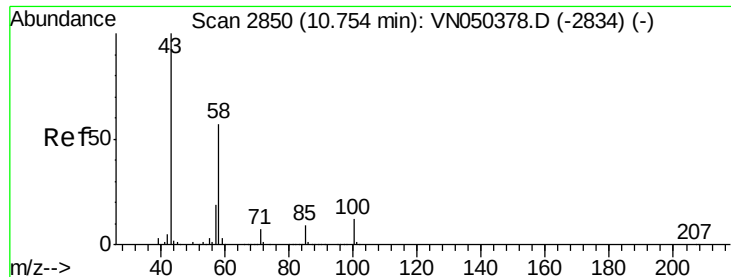
MMDadoda
 8/14/2018 12:50:48 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 80.29 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion: 63 Resp: 400825
 Ion Ratio Lower Upper
 63 100
 106 26.9 21.7 32.5





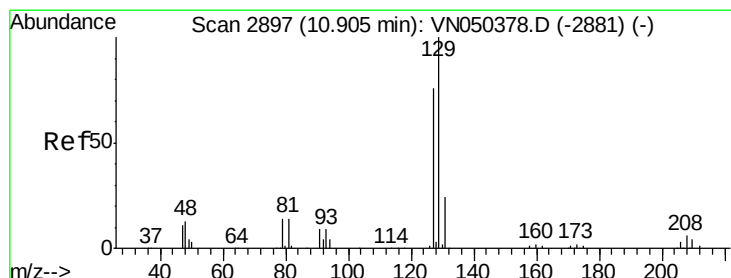
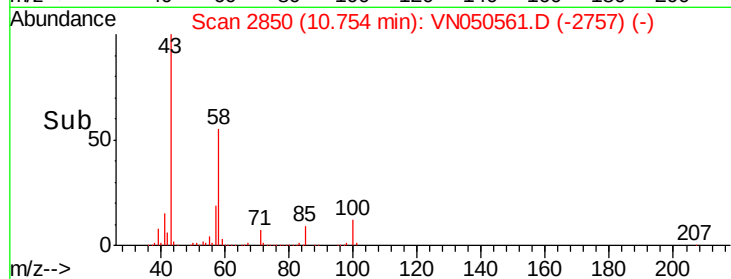
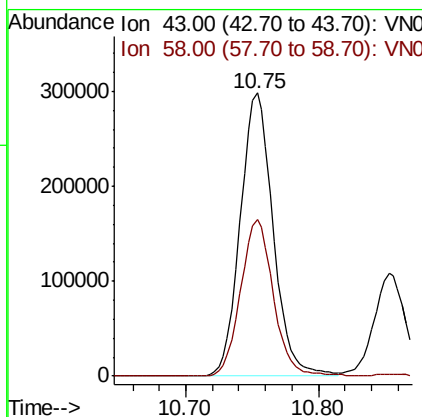
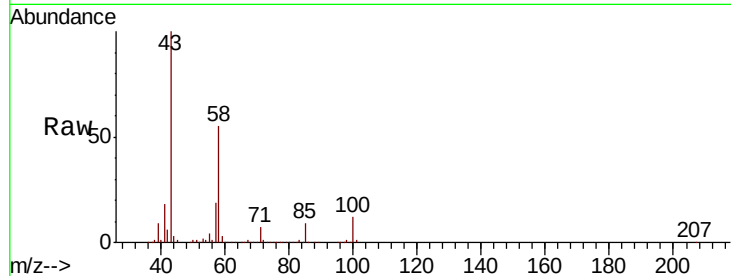
#59
2-Hexanone
Concen: 73.03 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.3	27.6	82.7

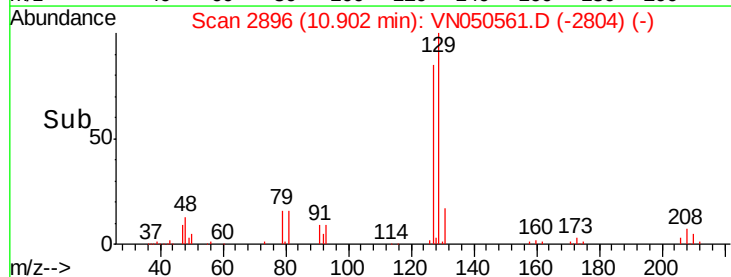
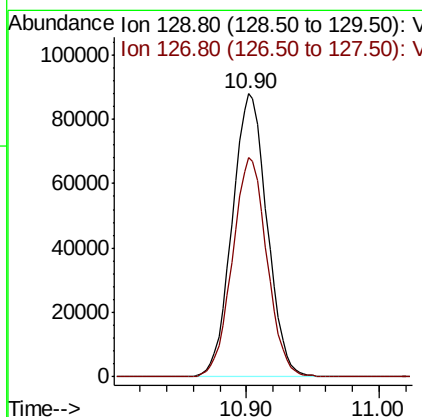
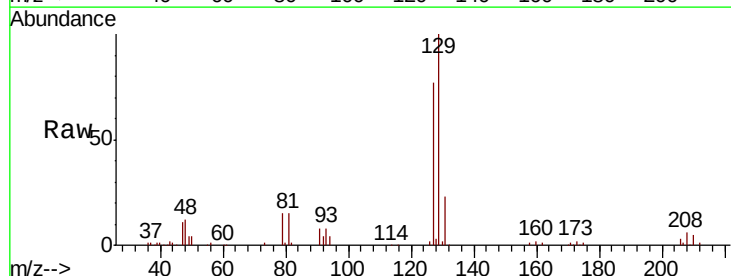
Manual Integrations
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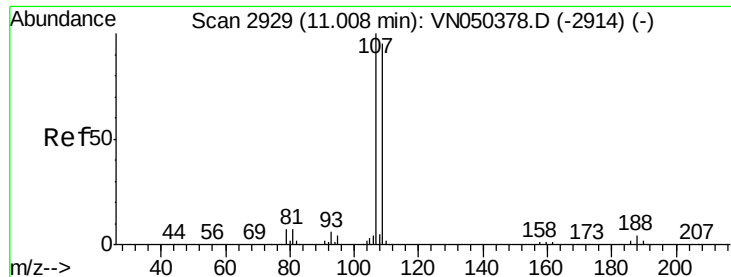
MMDadoda
8/14/2018 12:50:48 PM



#60
Dibromochloromethane
Concen: 18.01 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.0	113.9





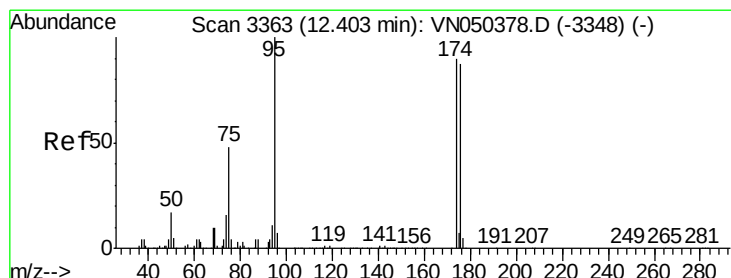
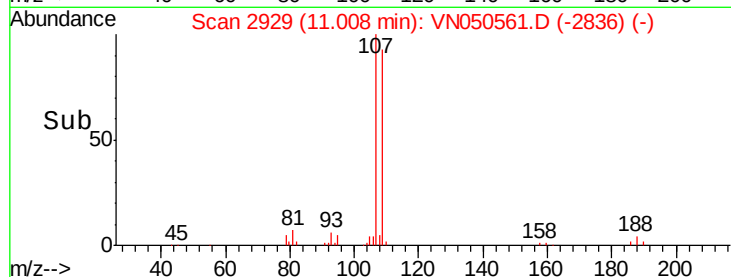
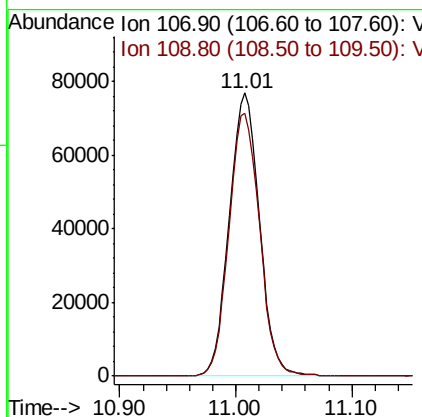
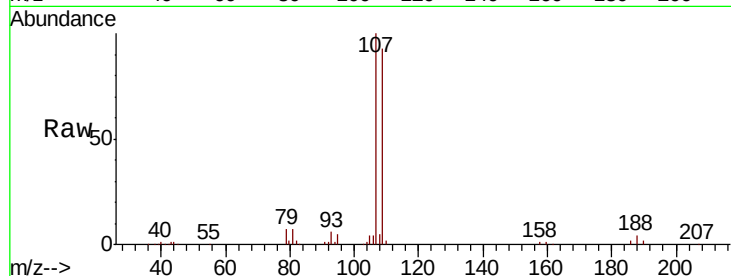
#61
 1,2-Dibromoethane
 Concen: 17.31 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	74.6	112.0

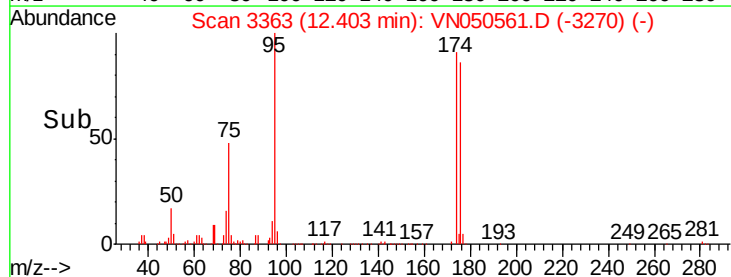
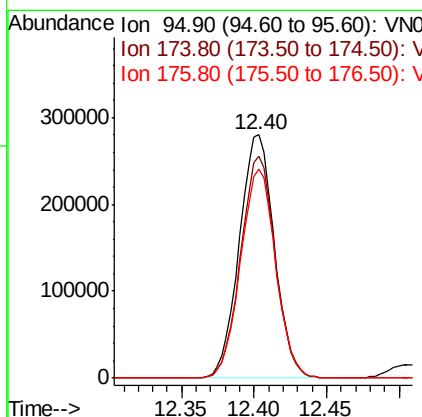
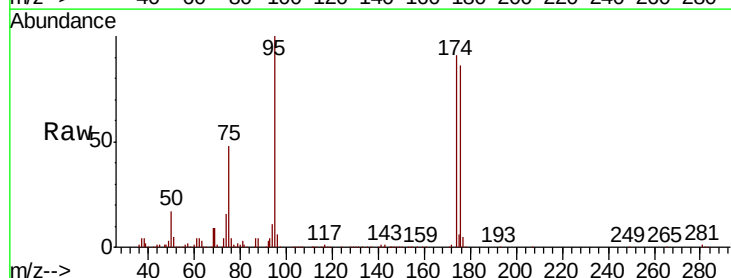
Manual Integrations
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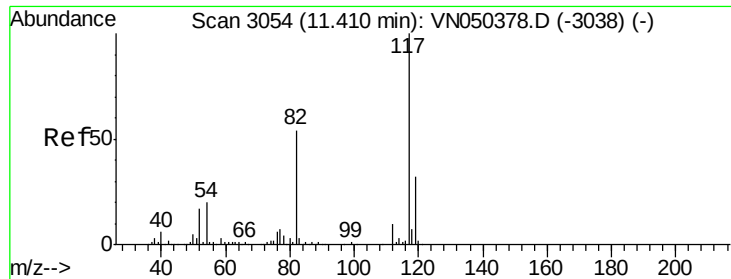
MMDadoda
 8/14/2018 12:50:48 PM



#62
 4-Bromofluorobenzene
 Concen: 44.95 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.0	0.0	178.2
176	85.9	0.0	173.4





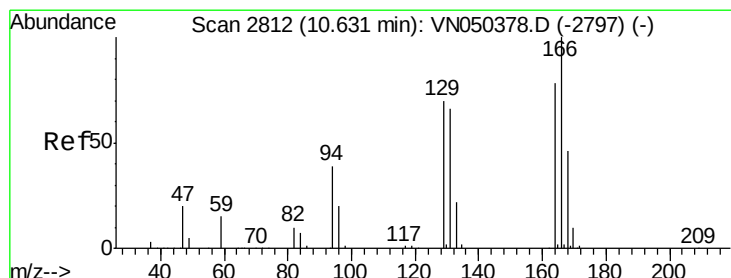
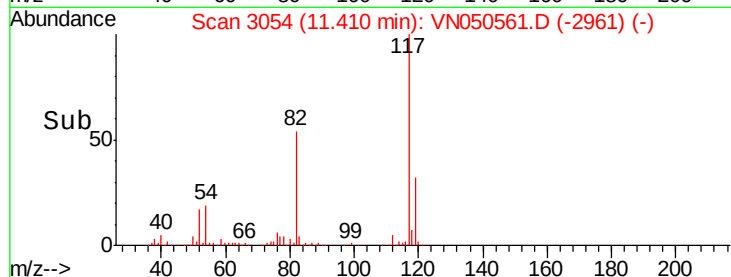
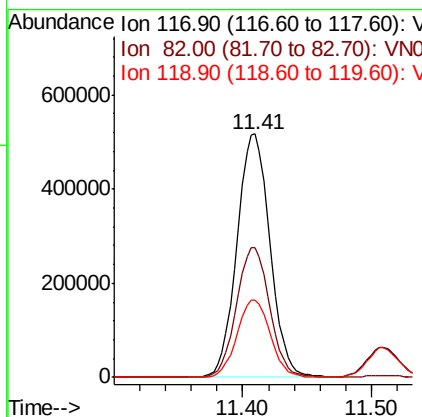
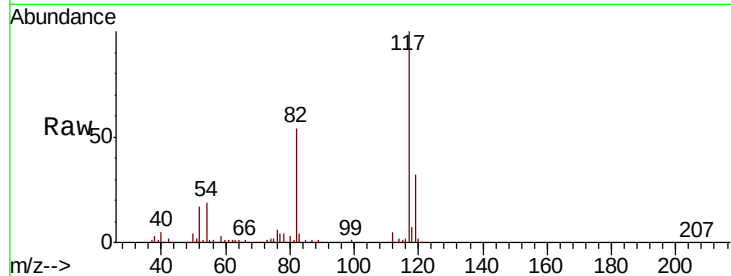
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	922188		
82	53.5	43.7	65.5	
119	32.0	26.1	39.1	

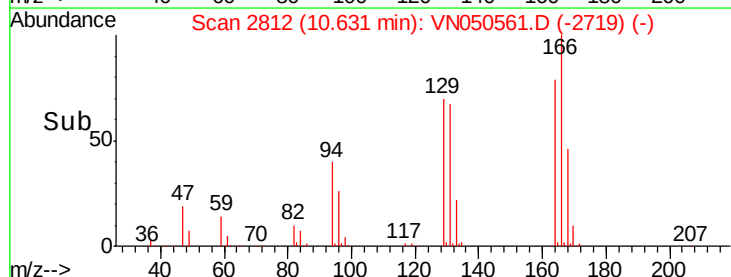
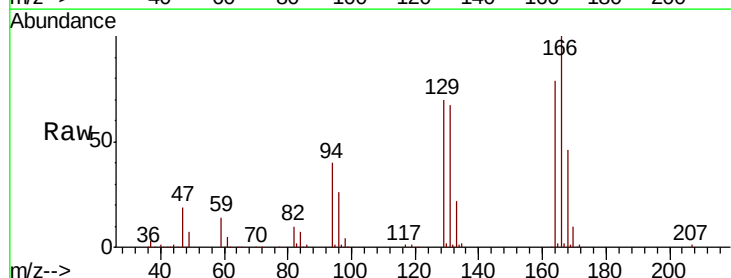
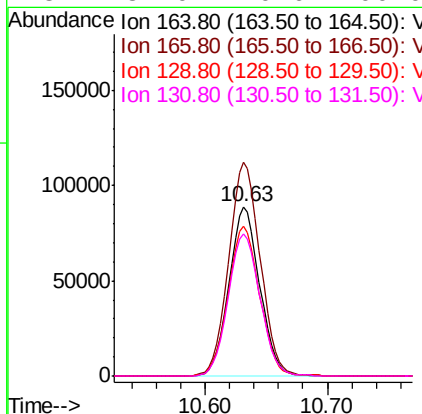
Manual Integrations
APPROVED

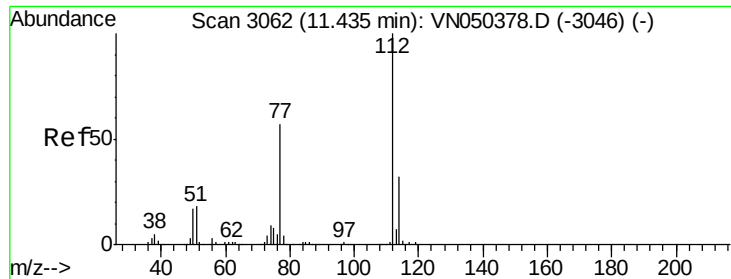
MMDadoda
8/14/2018 12:50:48 PM



#64
Tetrachloroethene
Concen: 18.11 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	156055		
166	125.9	102.1	153.1	
129	88.2	73.2	109.8	
131	84.0	70.6	106.0	





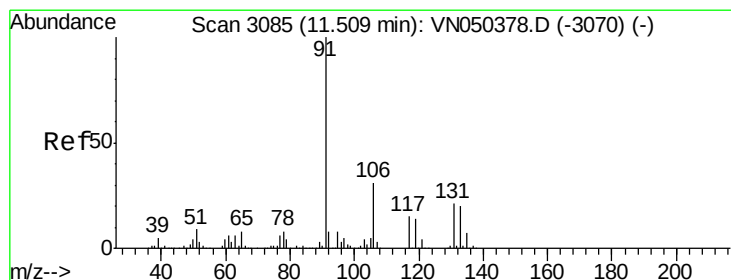
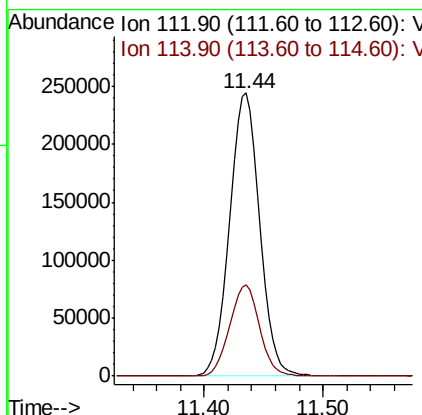
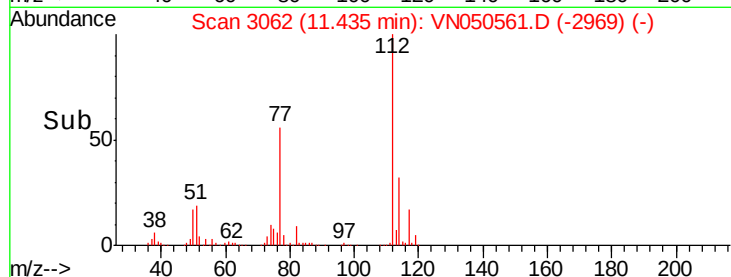
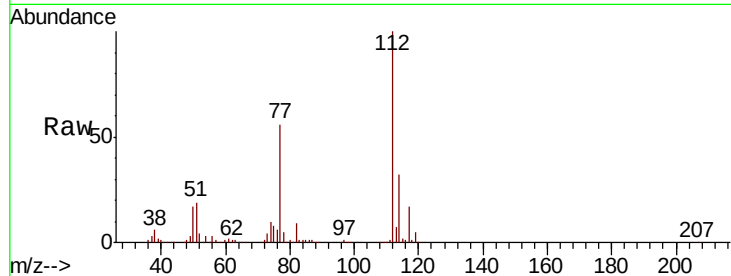
#65
Chlorobenzene
Concen: 18.48 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampled :
VN0813MBS01

Tot Ion:112 Resp: 427246
Ion Ratio Lower Upper
112 100
114 32.3 25.6 38.4

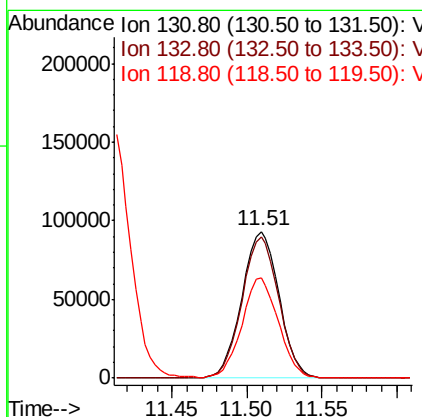
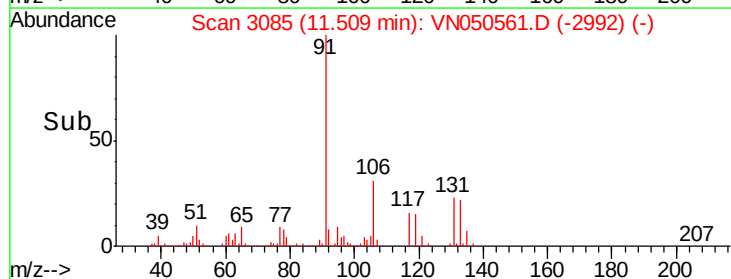
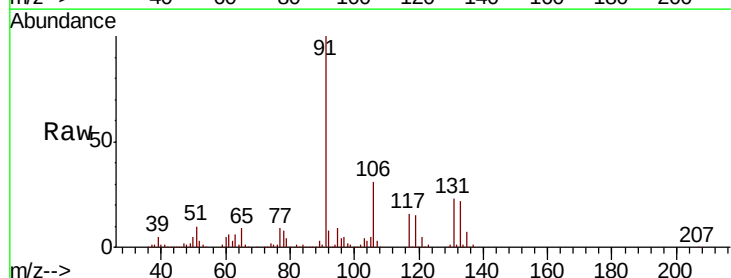
Manual Integrations
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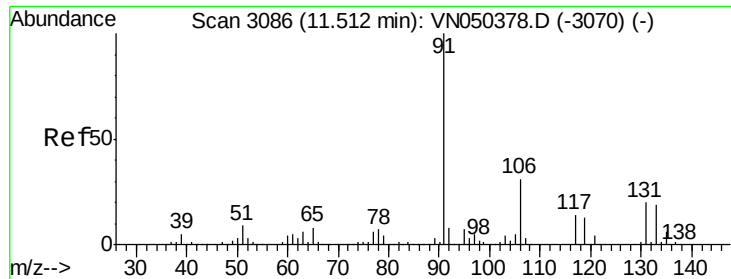
MMDadoda
8/14/2018 12:50:48 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.22 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion:131 Resp: 161722
Ion Ratio Lower Upper
131 100
133 95.6 47.3 141.9
119 66.9 32.9 98.7





#67

Ethyl Benzene

Concen: 18.83 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampled :

VN0813MBS01

Tot Ion: 91 Resp: 703824

Ion Ratio Lower Upper

91 100

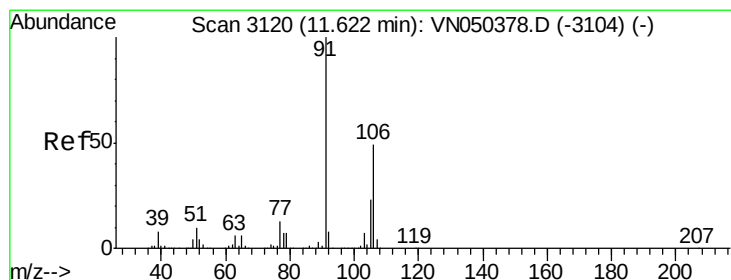
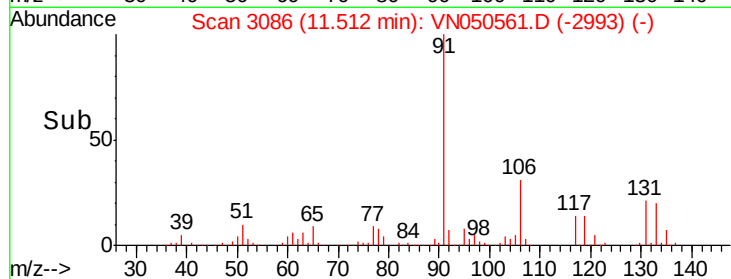
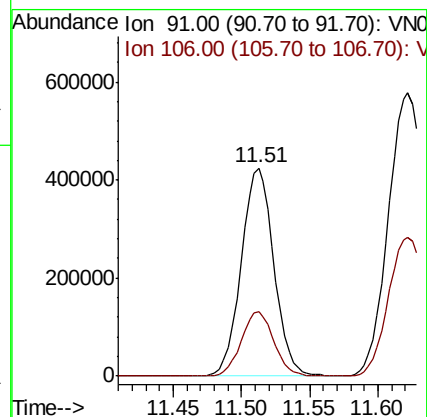
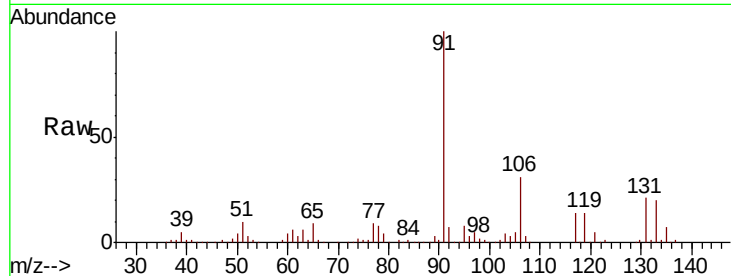
106 31.0 25.0 37.4

Manual Integrations

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8/14/2018 12:50:48 PM



#68

m/p-Xylenes

Concen: 38.55 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN050561.D

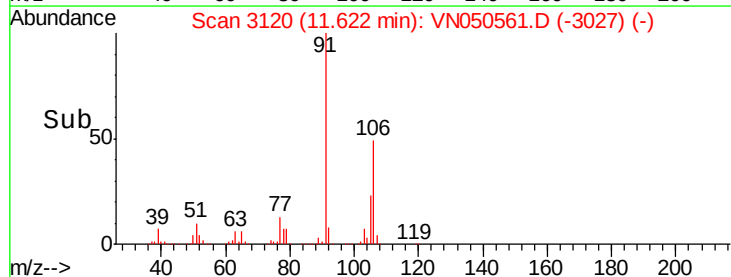
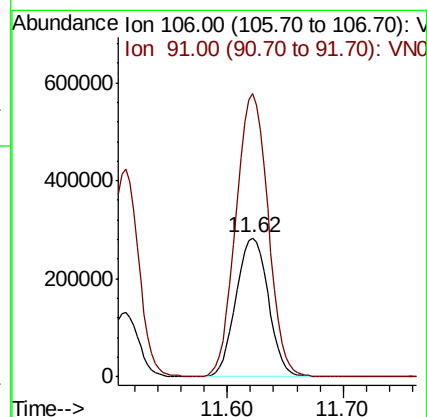
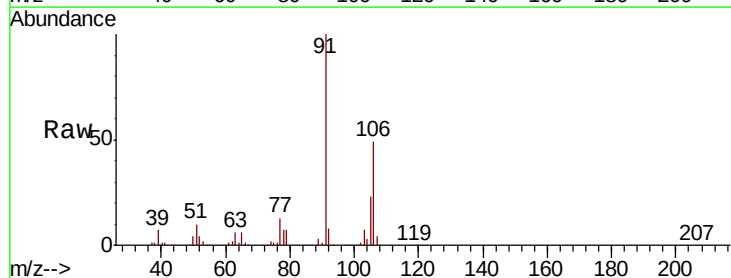
Acq: 13 Aug 2018 12:16

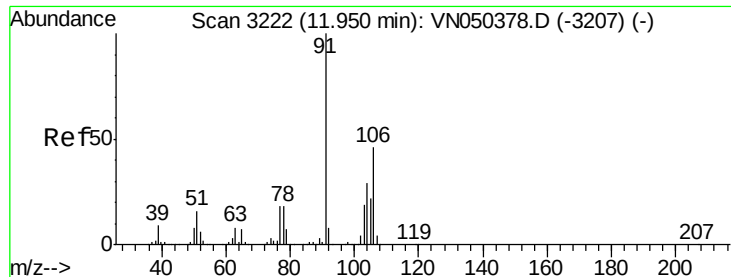
Tgt Ion: 106 Resp: 548495

Ion Ratio Lower Upper

106 100

91 202.4 162.2 243.2





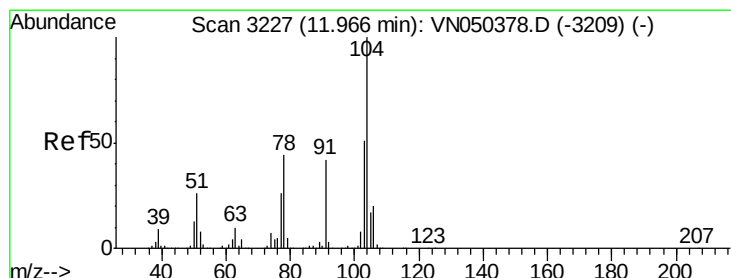
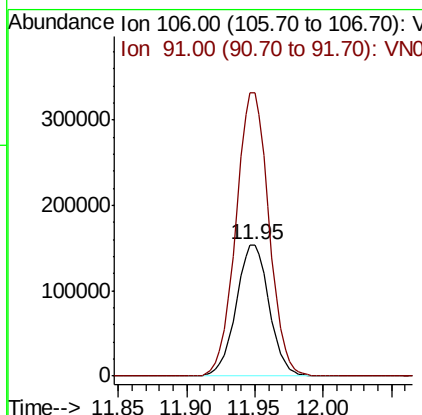
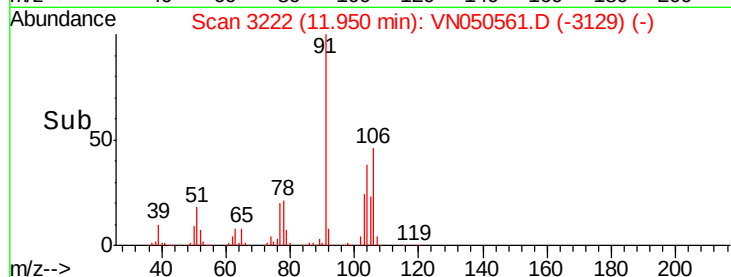
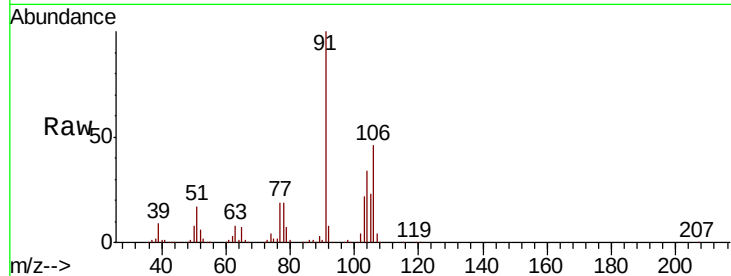
#69
o-Xylene
Concen: 18.80 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	216.3	107.7	323.1

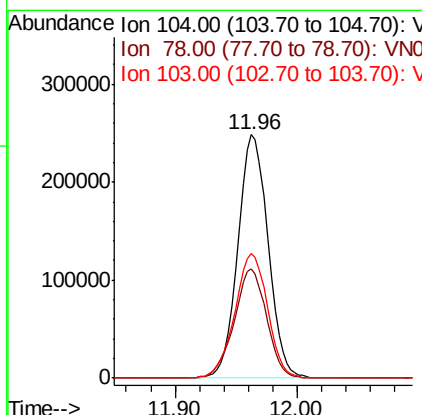
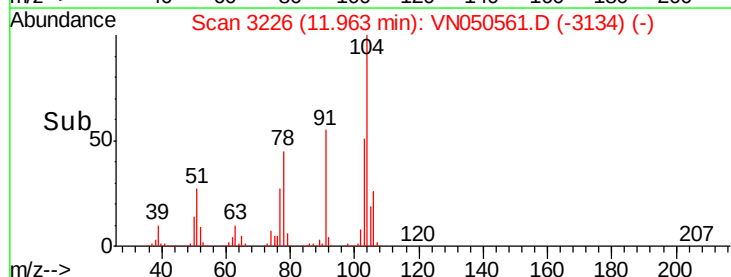
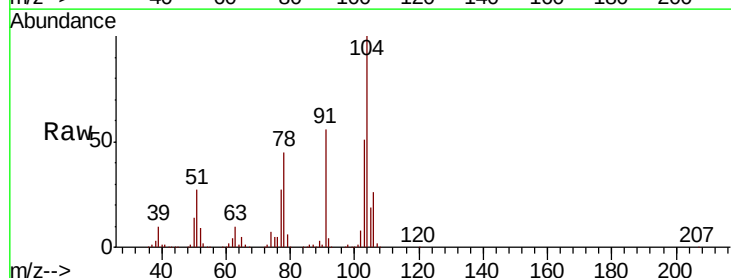
Manual Integrations
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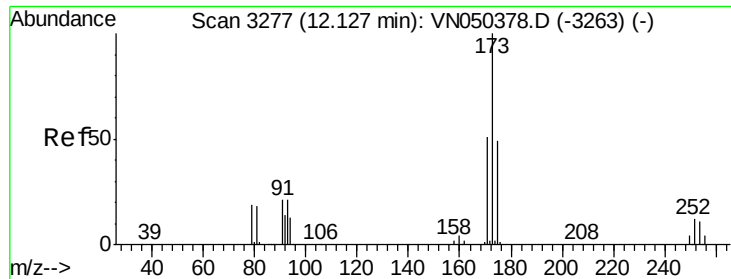
MMDadoda
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#70
Styrene
Concen: 19.08 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.5	39.3	58.9
103	55.5	45.0	67.6





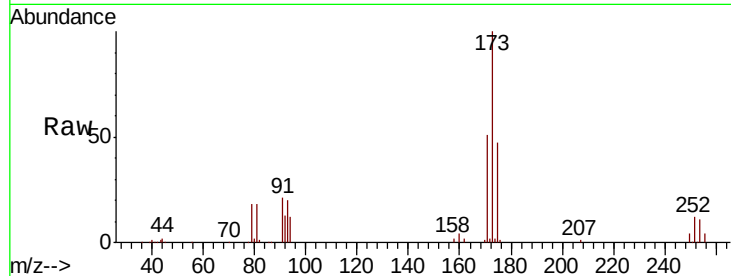
#71
Bromoform
Concen: 17.37 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.1	72.2
254	0.0	0.2	0.2

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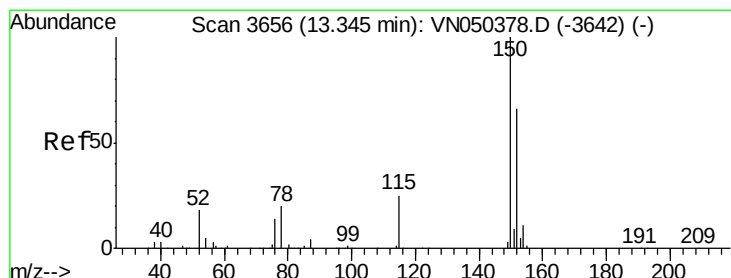
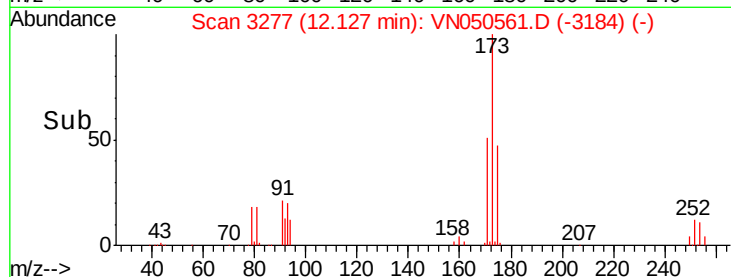
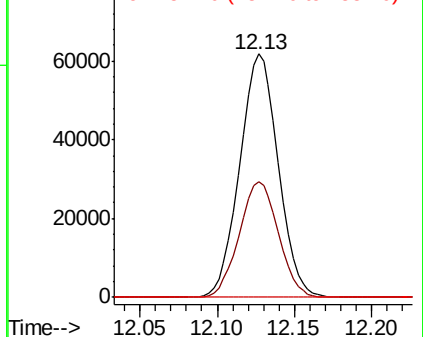


Abundance

Ion 172.70 (172.40 to 173.40): V

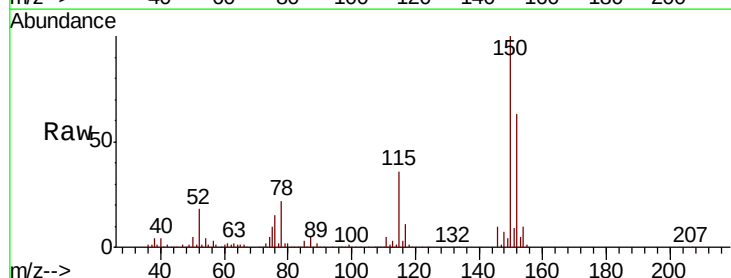
Ion 174.70 (174.40 to 175.40): V

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: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	27.8	83.3
150	163.1	0.0	348.6

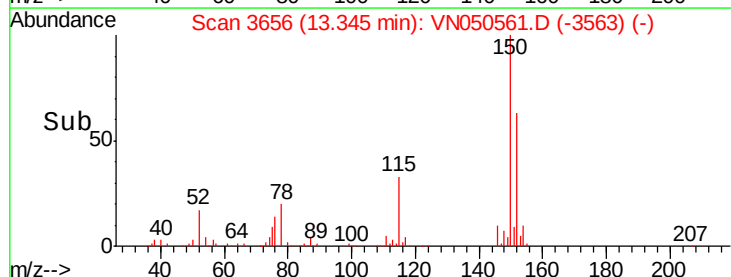
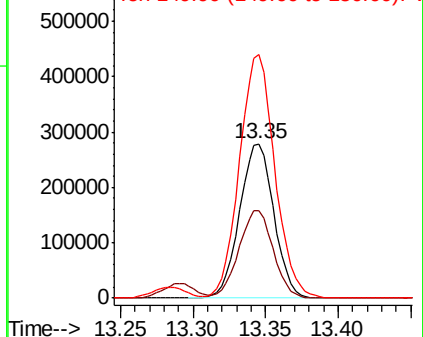


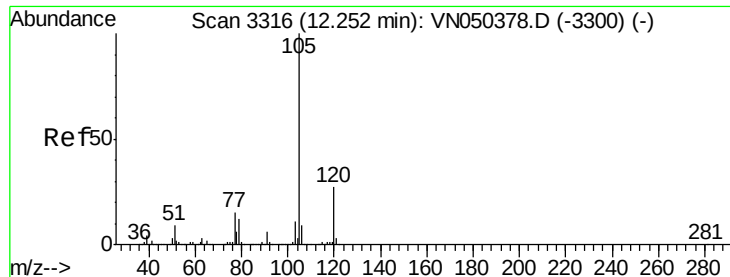
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.19 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion: 105 Resp: 692600

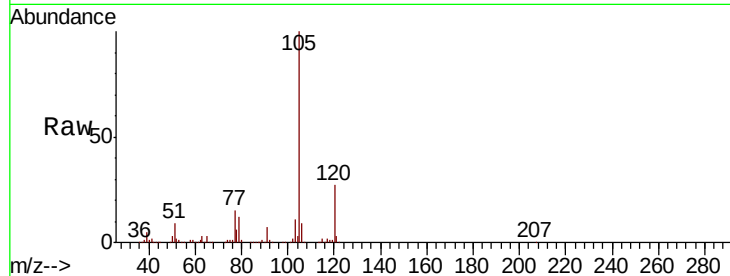
Ion Ratio Lower Upper

105 100

120 26.8 13.3 39.8

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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

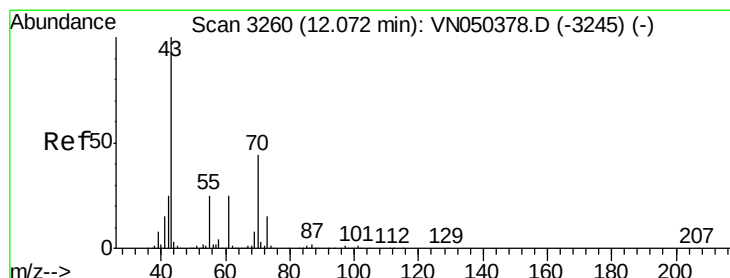
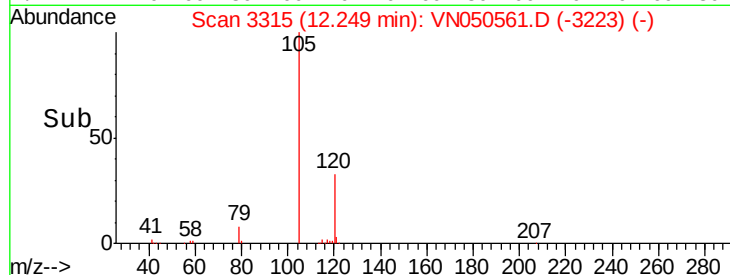
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 15.86 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Tgt Ion: 43 Resp: 176331

Ion Ratio Lower Upper

43 100

70 44.2 34.4 51.6

55 27.9 20.8 31.2

61 24.8 19.7 29.5

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

12.07

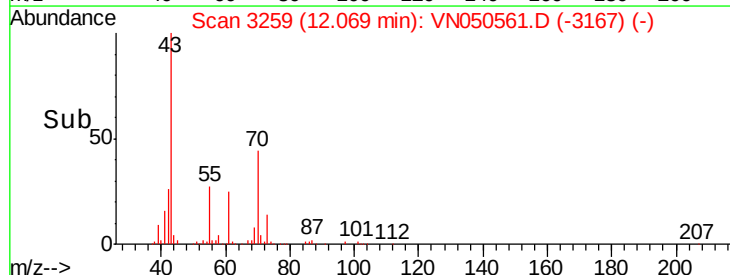
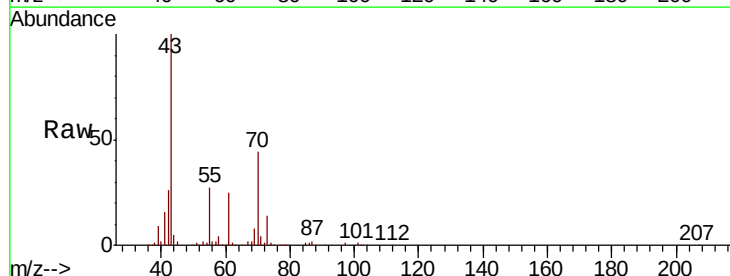
150000

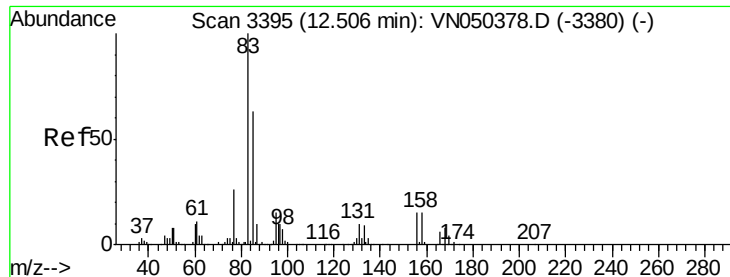
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 17.76 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

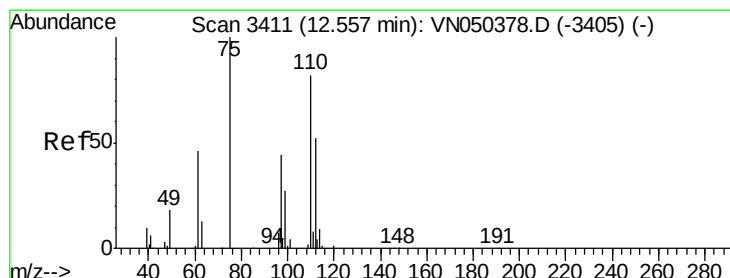
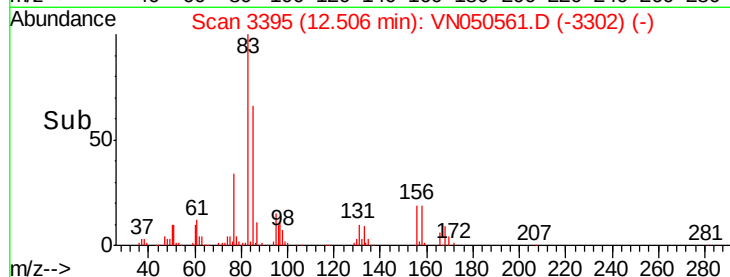
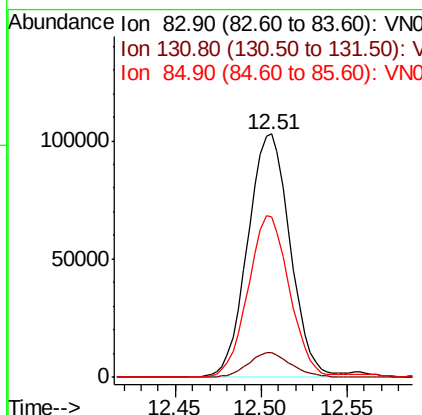
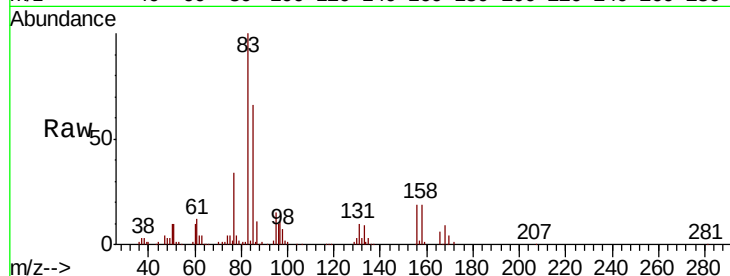
ClientSampleId :

VN0813MBS01

Tot Ion:	83	Resp:	175783
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.1	15.3
85	64.7	32.3	96.8

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#76

1,2,3-Trichloropropane

Concen: 18.37 ug/l m

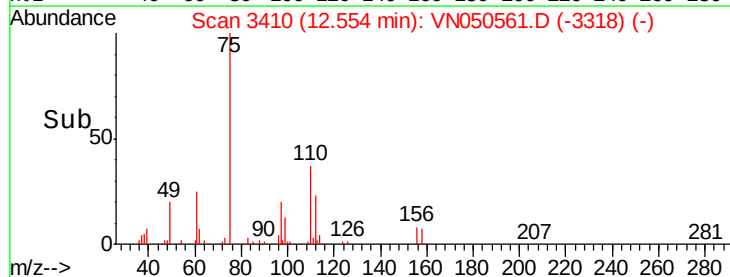
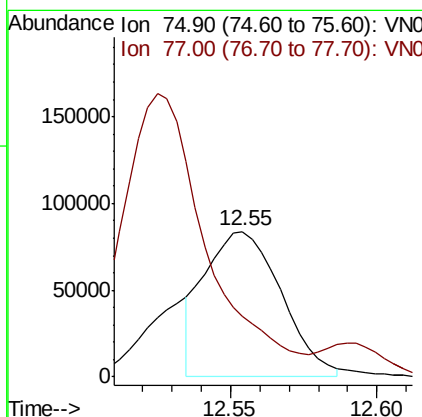
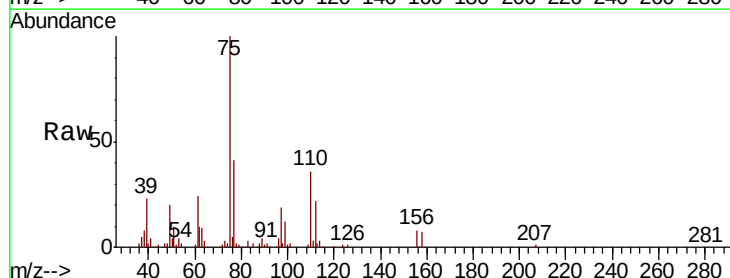
RT: 12.55 min Scan# 3410

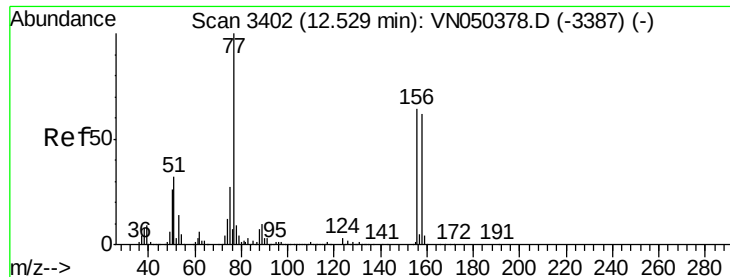
Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Tgt Ion:	75	Resp:	151950
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.57 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion:156 Resp: 179852

Ion Ratio Lower Upper

156 100

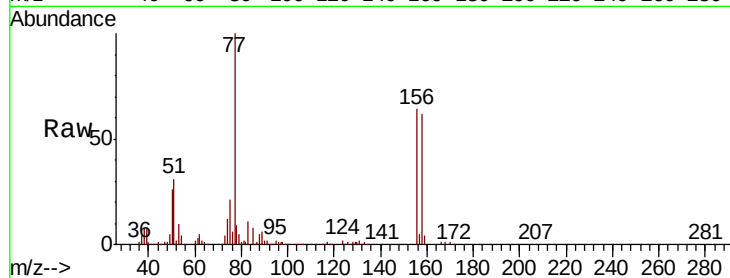
77 183.3 91.7 275.1

158 98.0 48.9 146.6

Manual Integrations
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MMDadoda

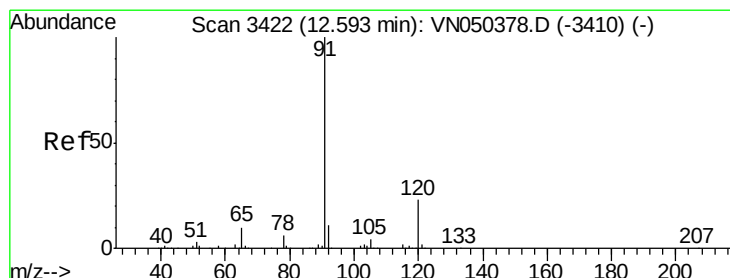
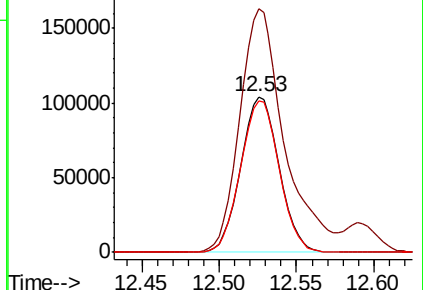
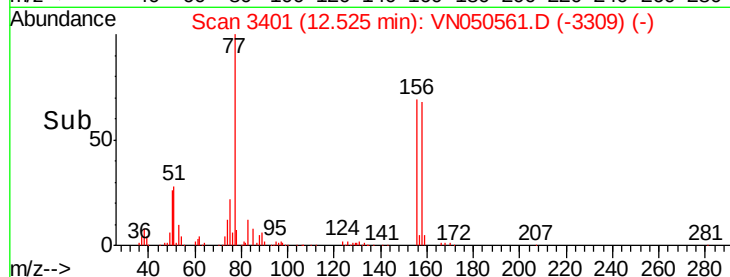
8/14/2018 12:50:48 PM



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: 20.15 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN050561.D

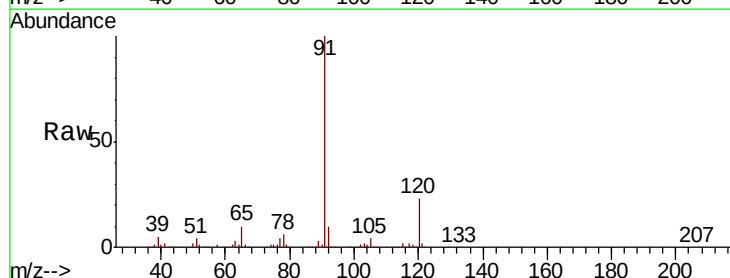
Acq: 13 Aug 2018 12:16

Tgt Ion: 91 Resp: 782406

Ion Ratio Lower Upper

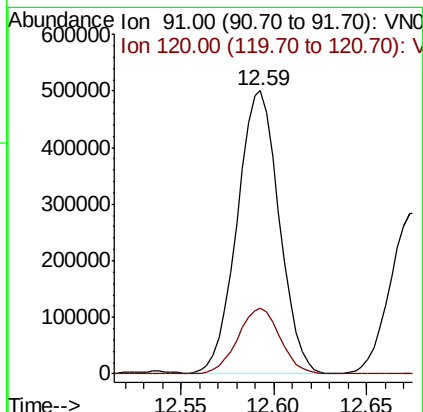
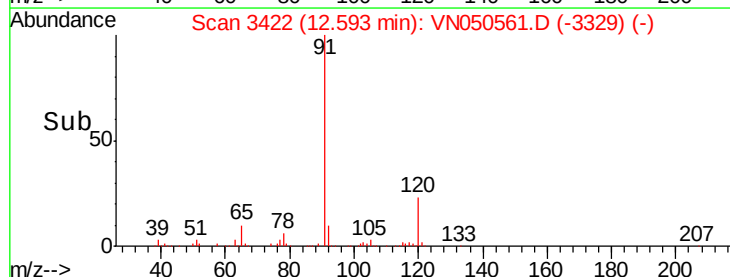
91 100

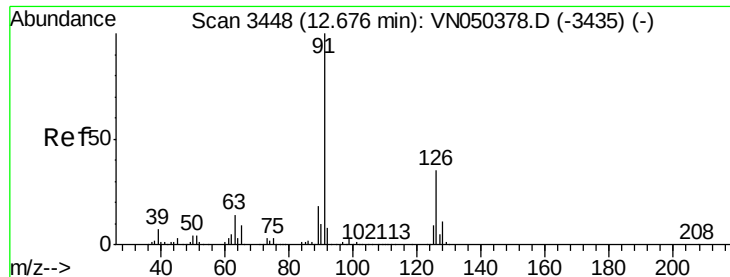
120 23.3 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.82 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion: 91 Resp: 475155

Ion Ratio Lower Upper

91 100

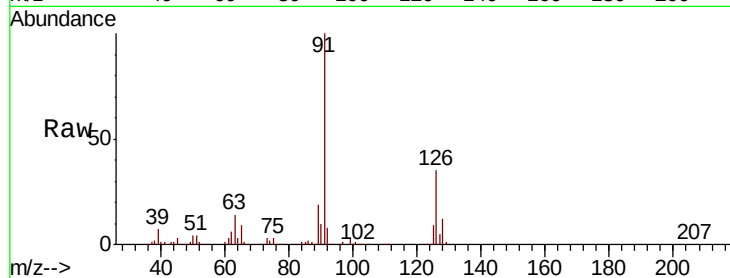
126 35.3 17.6 52.8

Manual Integrations

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8/14/2018 12:50:48 PM



Abundance Ion 91.00 (90.70 to 91.70): VN050378.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN050378.D (-3435) (-)

500000

400000

300000

200000

100000

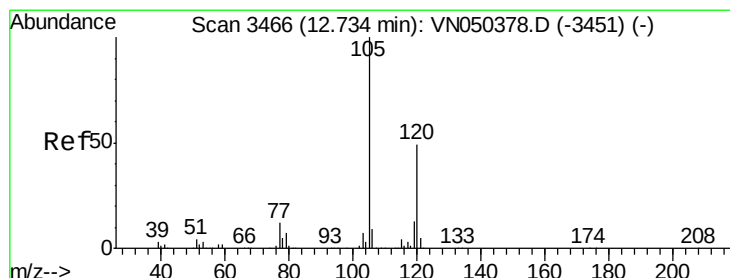
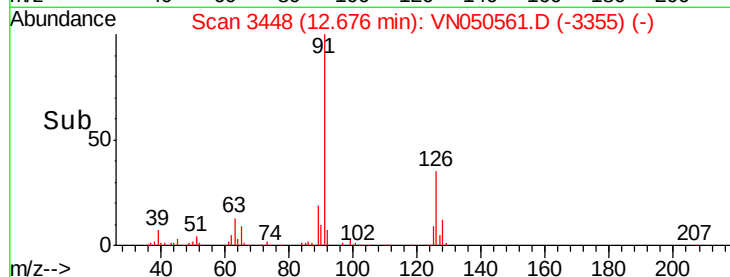
0

12.68

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.38 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050561.D

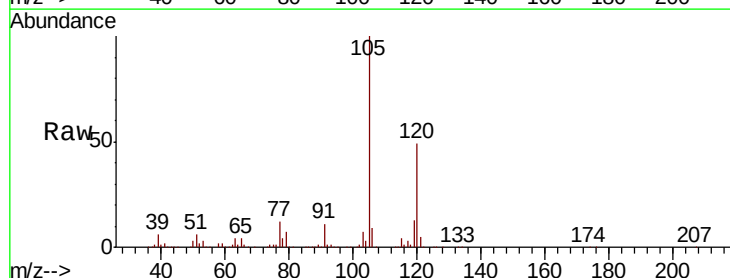
Acq: 13 Aug 2018 12:16

Tgt Ion:105 Resp: 567418

Ion Ratio Lower Upper

105 100

120 49.5 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050378.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN050378.D (-3451) (-)

400000

300000

200000

100000

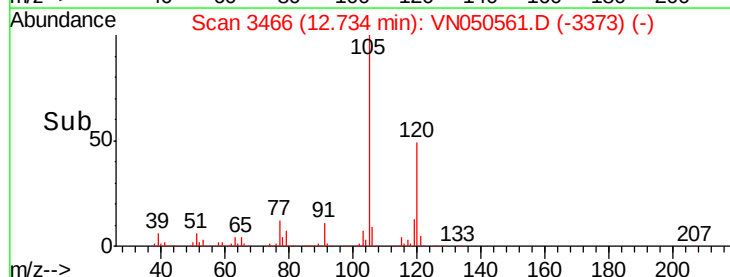
0

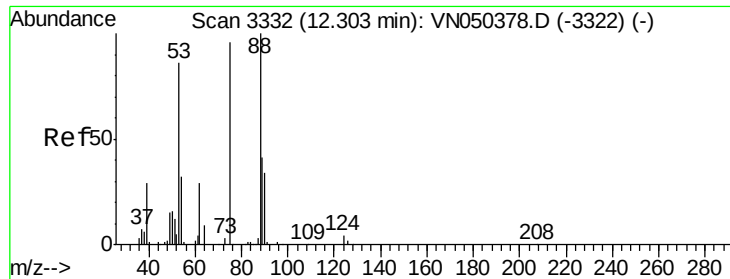
12.73

12.70

12.75

Time-->





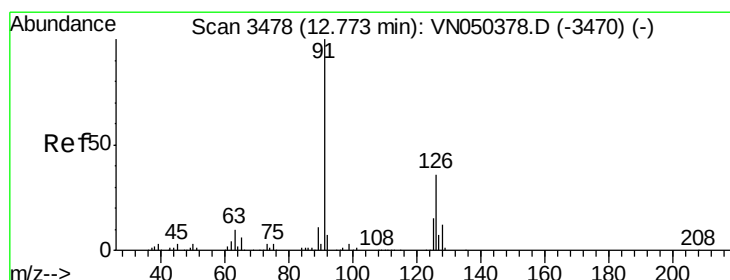
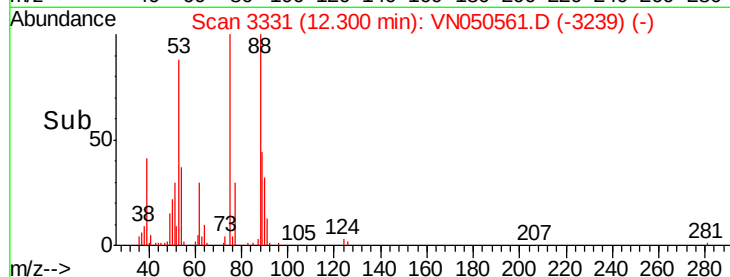
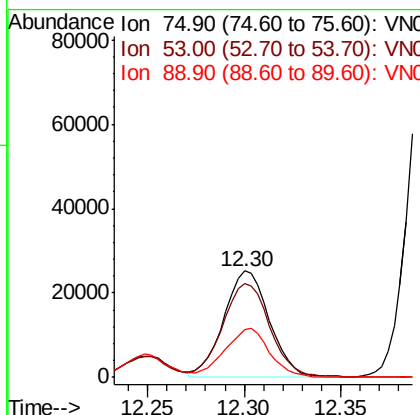
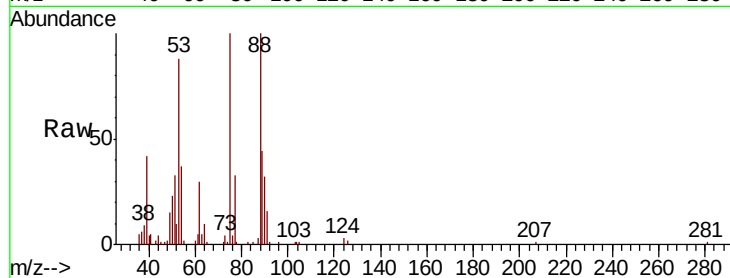
#81
trans-1,4-Dichloro-2-butene
Concen: 17.22 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Instrument :
MSVOA_N
ClientSampleId :
VN0813MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.0	73.5	110.3
89	45.5	36.0	54.0

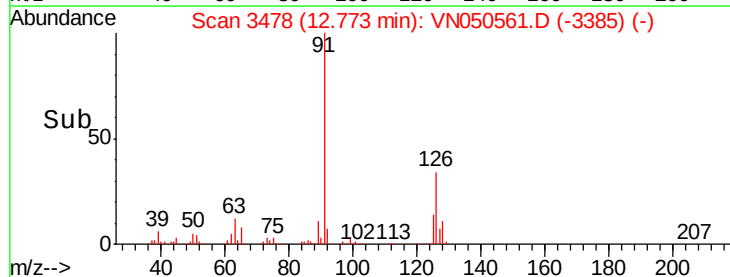
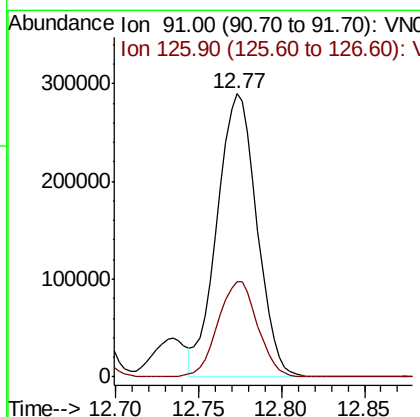
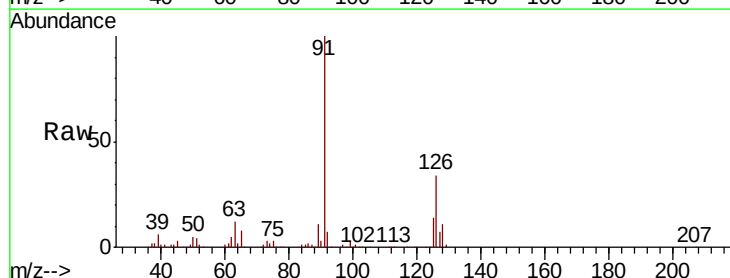
Manual Integrations
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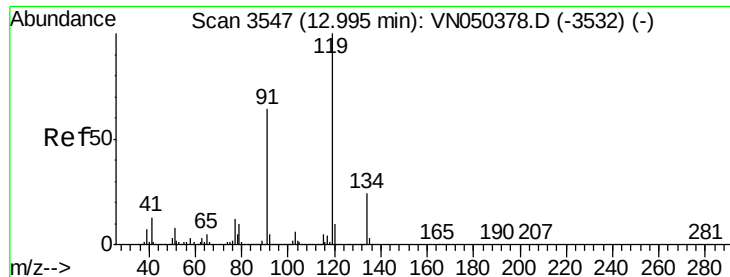
MMDadoda
8/14/2018 12:50:48 PM



#82
4-Chlorotoluene
Concen: 20.14 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. -0.00 min
Lab File: VN050561.D
Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.0	51.0





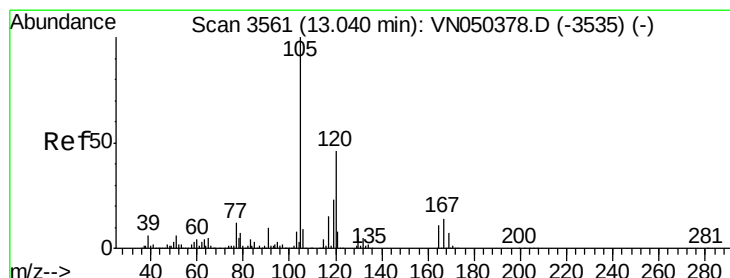
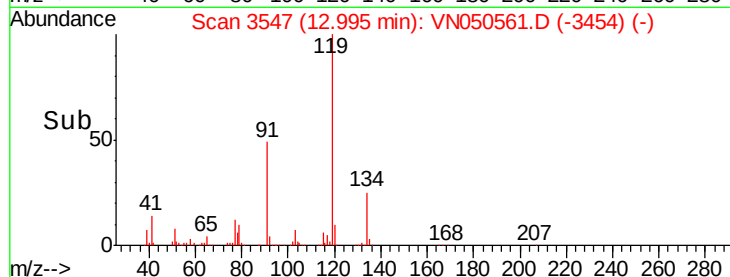
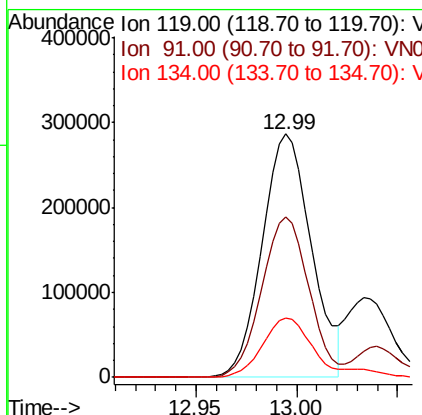
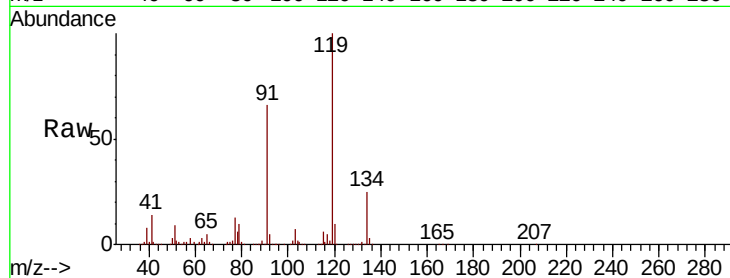
#83
 tert-Butylbenzene
 Concen: 20.02 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.7	32.1	96.3
134	24.1	13.2	39.5

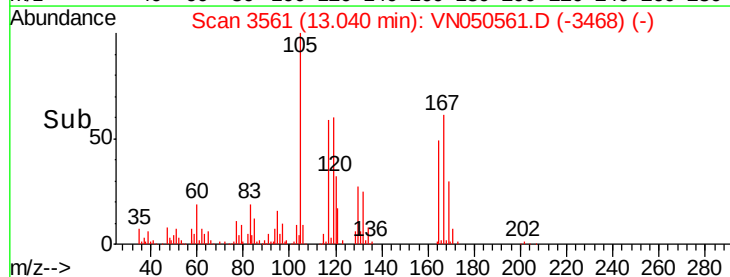
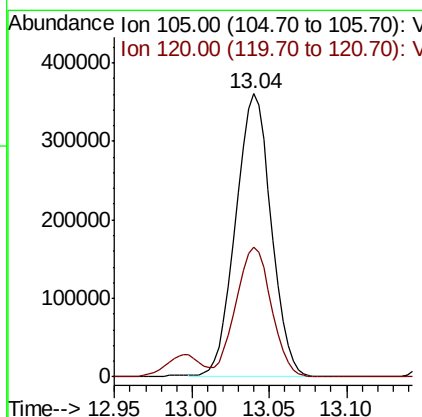
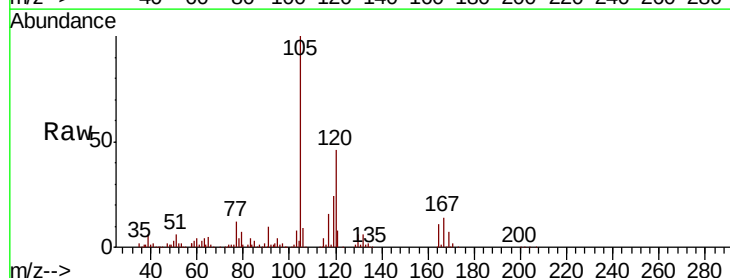
Manual Integrations
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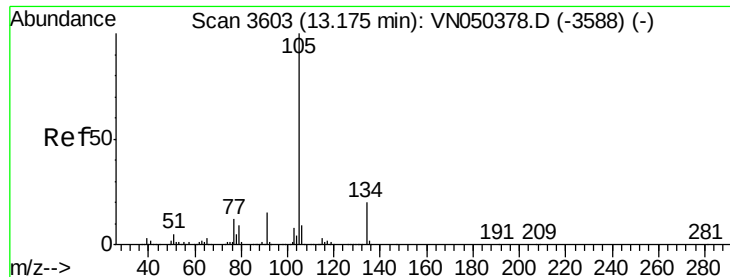
MMDadoda
 8/14/2018 12:50:48 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.40 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.9	68.7





#85

sec-Butylbenzene

Concen: 19.75 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

ClientSampleId :

VN0813MBS01

Tot Ion:105 Resp: 639266

Ion Ratio Lower Upper

105 100

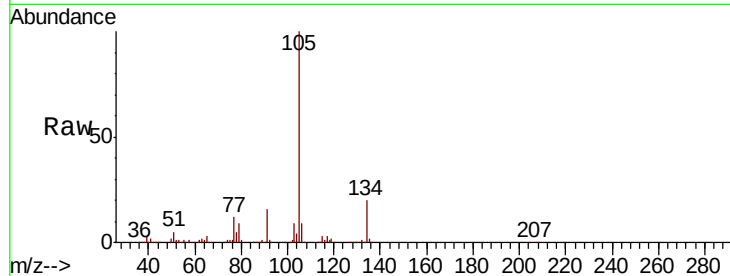
134 20.0 10.1 30.1

Manual Integrations

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8/14/2018 12:50:48 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

400000

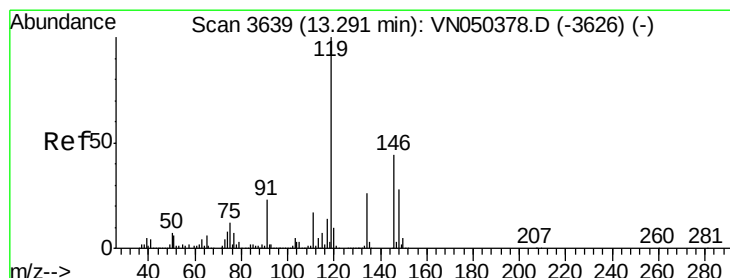
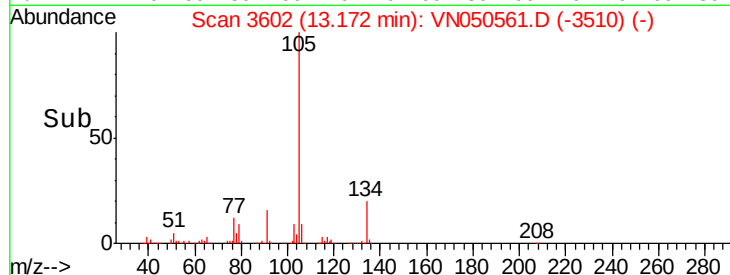
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.46 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

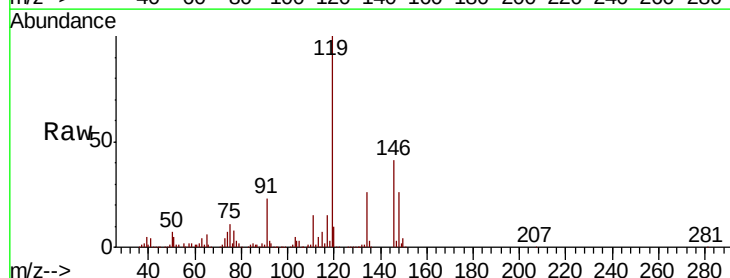
Tgt Ion:119 Resp: 539852

Ion Ratio Lower Upper

119 100

134 26.9 13.3 39.8

91 23.0 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

500000

400000

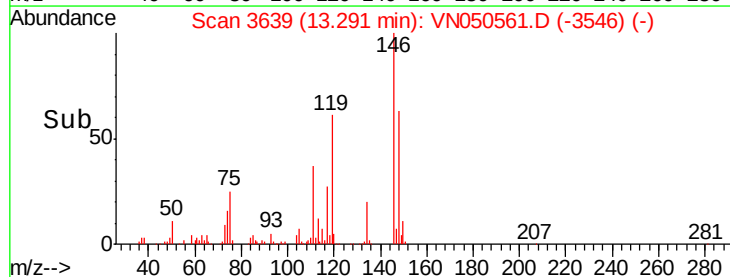
300000

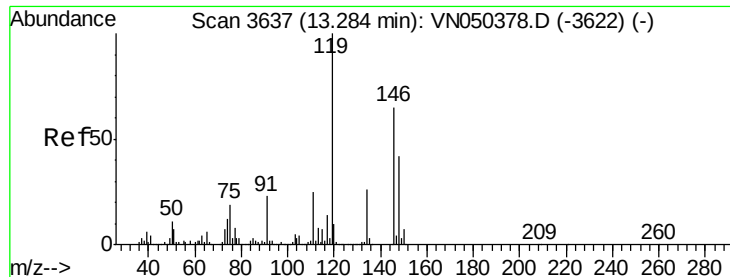
200000

100000

0

Time-->





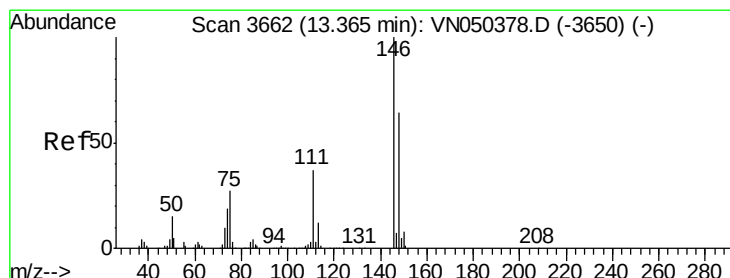
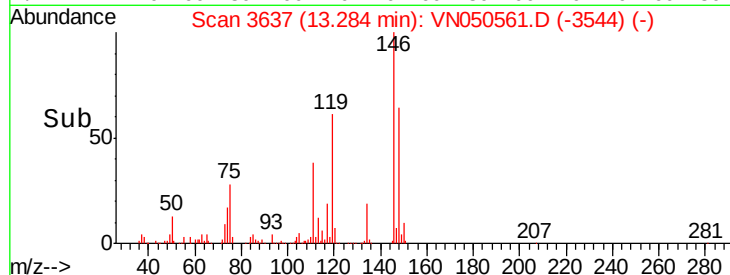
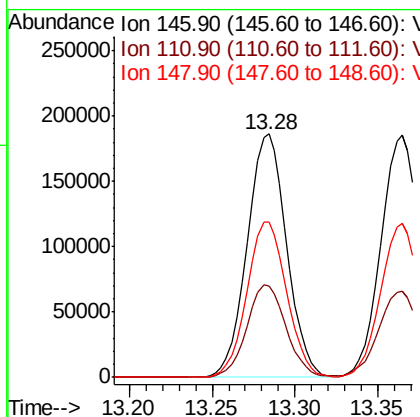
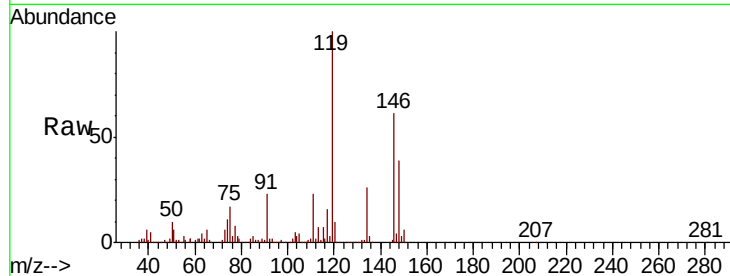
#87
 1,3-Dichlorobenzene
 Concen: 18.88 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	308987		
111	37.8	18.8	56.4	
148	64.4	31.9	95.9	

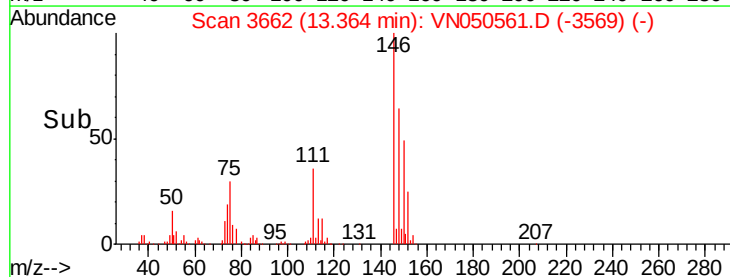
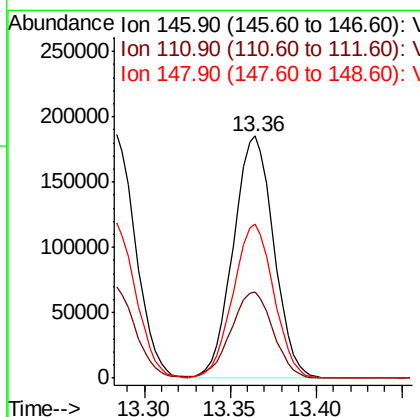
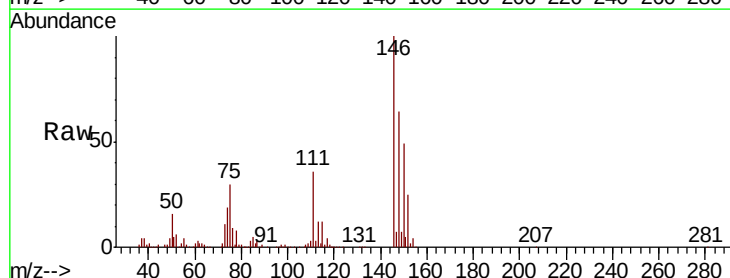
Manual Integrations
 APPROVED

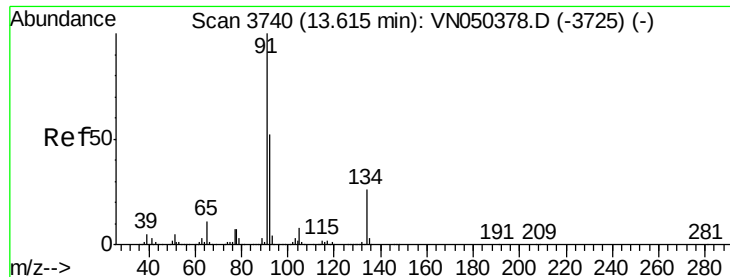
MMDadoda
 8/14/2018 12:50:48 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.50 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	302305		
111	37.5	18.3	54.9	
148	64.2	31.9	95.9	





#89

n-Butylbenzene

Concen: 17.63 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

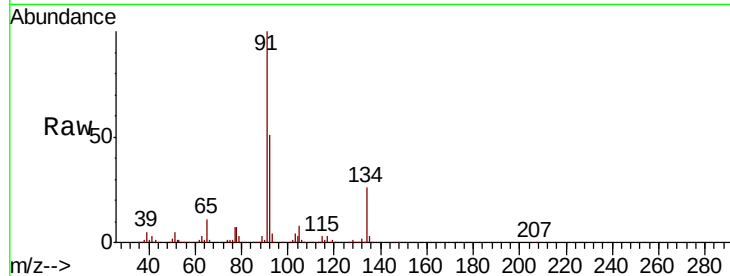
ClientSampleId :

VN0813MBS01

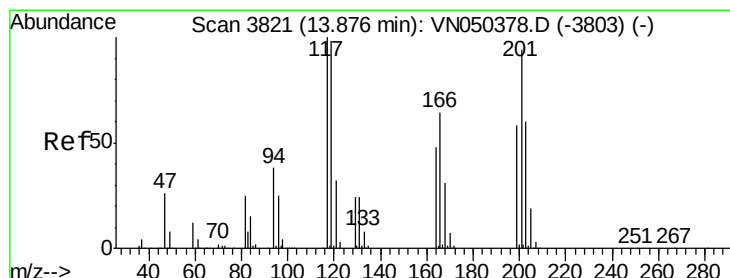
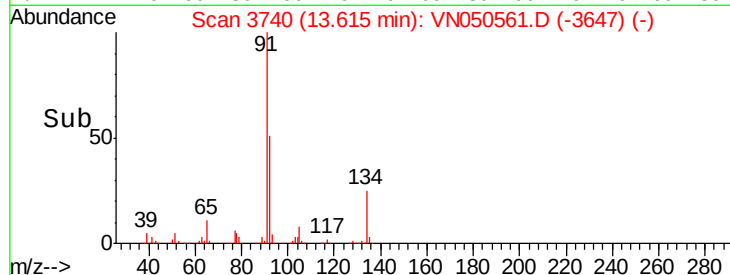
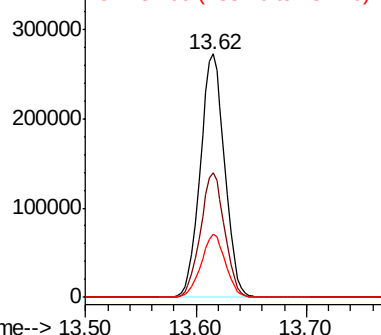
Tot Ion:	91	Resp:	416461
Ion Ratio	Lower	Upper	
91	100		
92	50.9	25.8	77.4
134	25.7	12.8	38.4

Manual Integrations
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MMDadoda
8/14/2018 12:50:48 PM



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



#90

Hexachloroethane

Concen: 20.12 ug/l

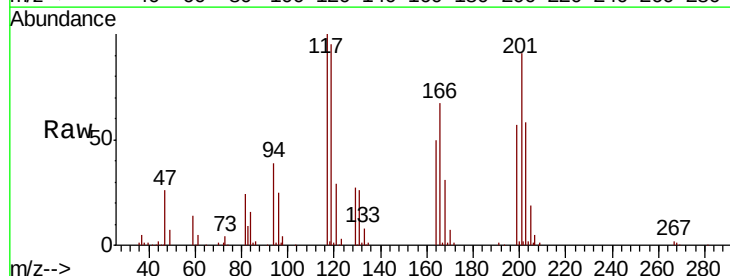
RT: 13.88 min Scan# 3821

Delta R.T. -0.00 min

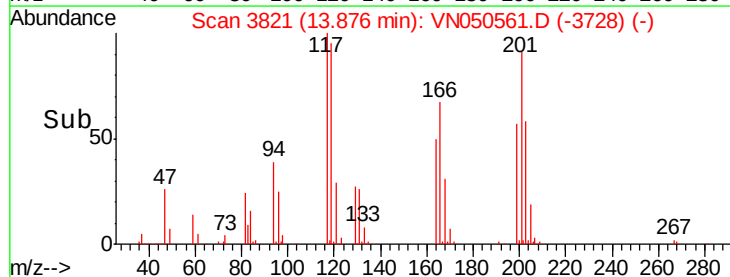
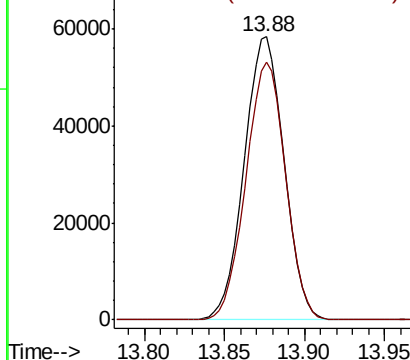
Lab File: VN050561.D

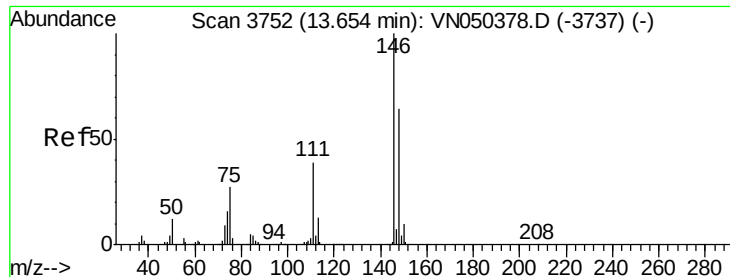
Acq: 13 Aug 2018 12:16

Tgt Ion:	117	Resp:	99265
Ion Ratio	Lower	Upper	
117	100		
201	90.5	45.6	136.8



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





#91

1,2-Dichlorobenzene

Concen: 18.13 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

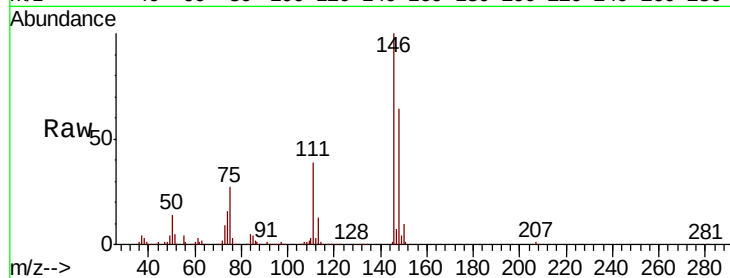
ClientSampleId :

VN0813MBS01

Tot Ion:	146	Resp:	297416
Ion Ratio	Lower	Upper	
146	100		
111	39.6	19.6	58.7
148	64.3	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
8/14/2018 12:50:48 PM

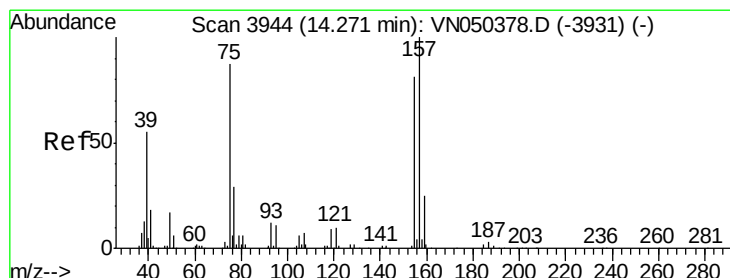
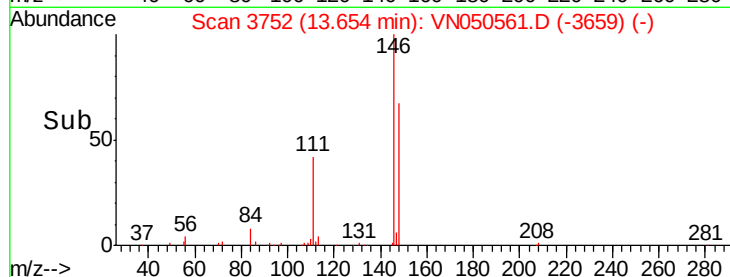
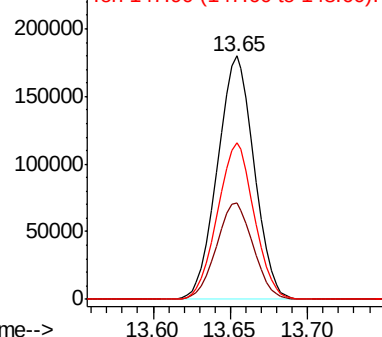


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 13.45 ug/l

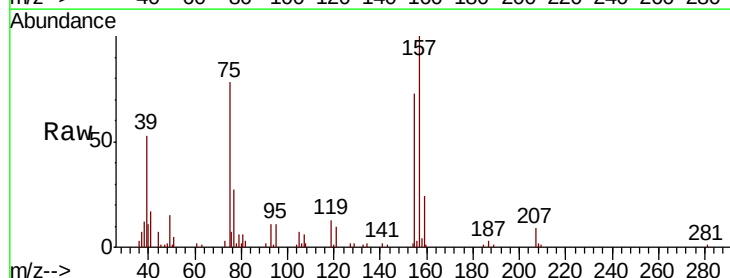
RT: 14.27 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Tgt Ion:	75	Resp:	22603
Ion Ratio	Lower	Upper	
75	100		
155	93.3	44.8	134.4
157	124.7	57.2	171.6

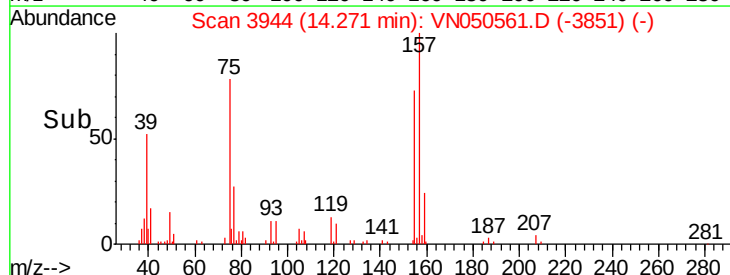
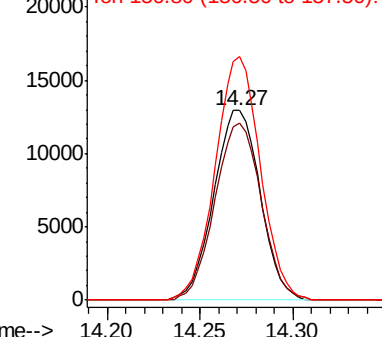


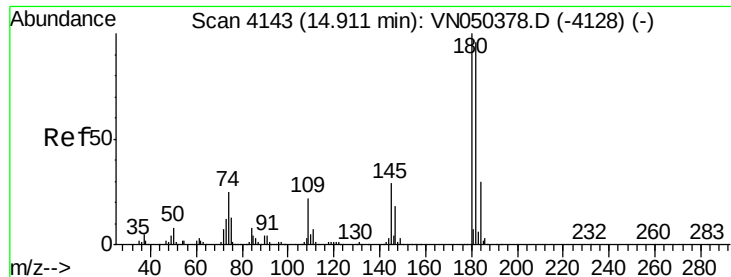
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





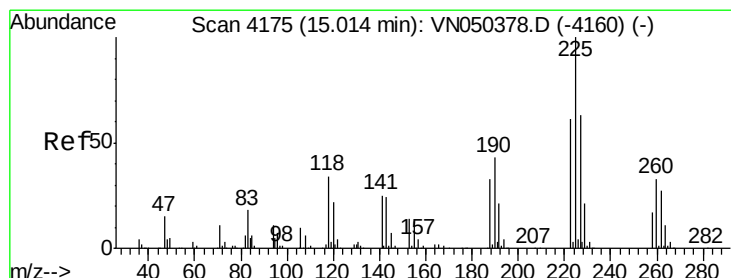
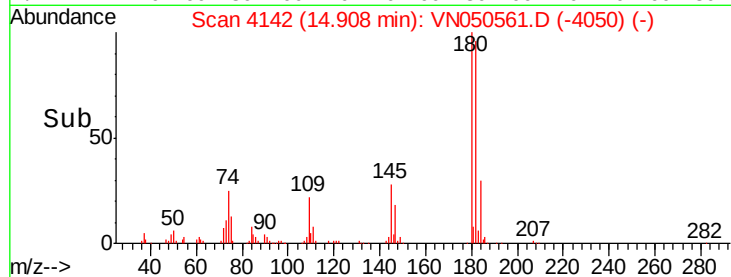
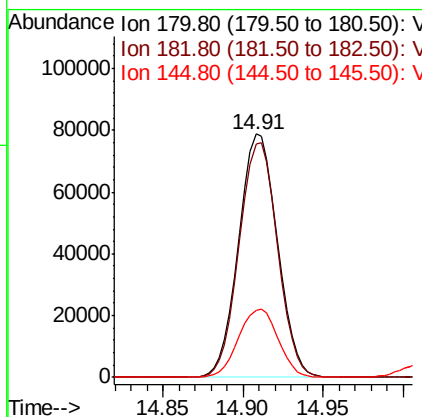
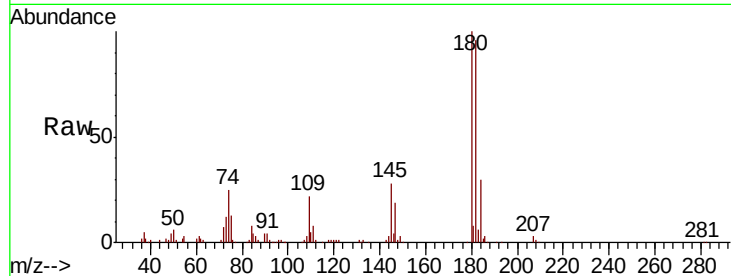
#93
 1,2,4-Trichlorobenzene
 Concen: 15.55 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0813MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	129932		
182	95.4	46.7	140.1	
145	28.7	13.8	41.4	

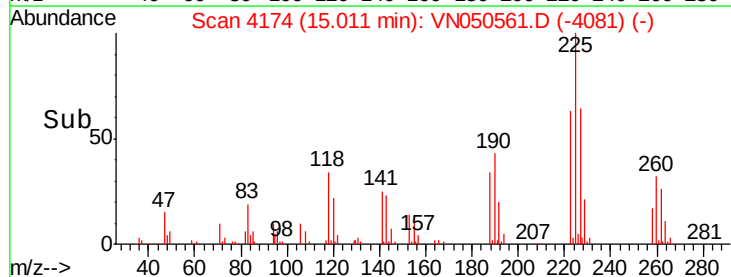
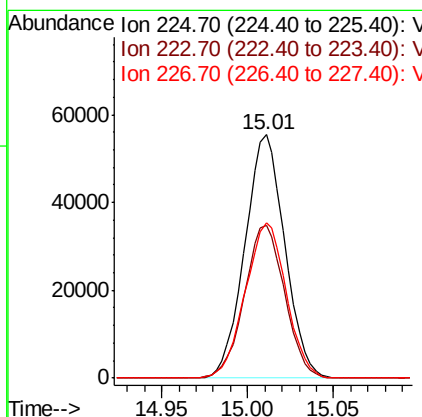
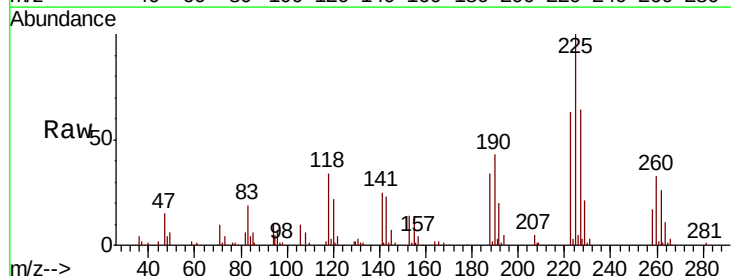
Manual Integrations
 APPROVED

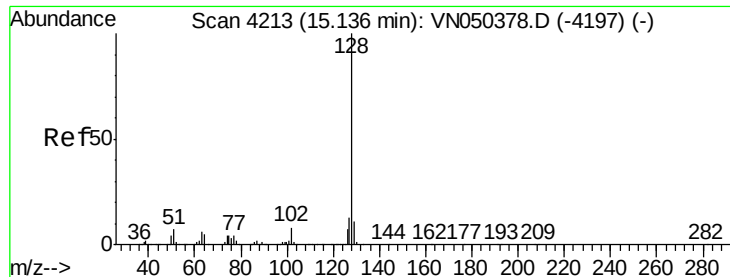
MMDadoda
 8/14/2018 12:50:48 PM



#94
 Hexachlorobutadiene
 Concen: 18.49 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050561.D
 Acq: 13 Aug 2018 12:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	89132		
223	63.2	31.4	94.2	
227	65.5	32.1	96.5	





#95

Naphthalene

Concen: 14.15 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Instrument :

MSVOA_N

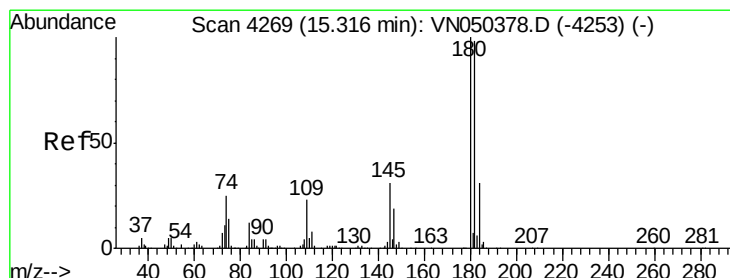
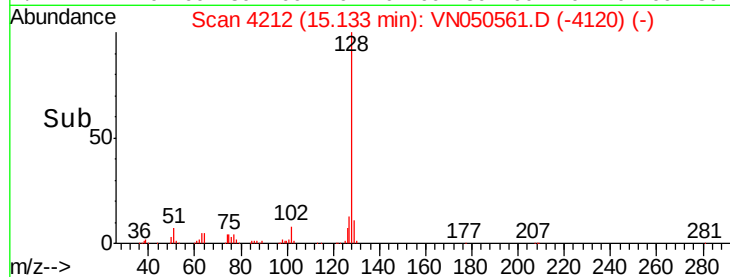
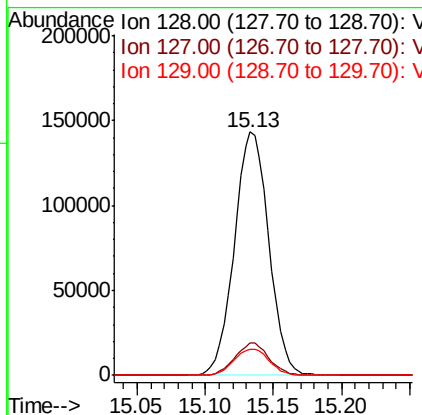
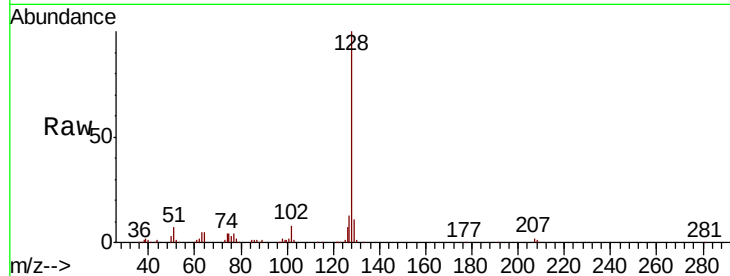
ClientSampleId :

VN0813MBS01

Tot Ion:	128	Resp:	251069
Ion Ratio		Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.2	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/14/2018 12:50:48 PM



#96

1,2,3-Trichlorobenzene

Concen: 15.19 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN050561.D

Acq: 13 Aug 2018 12:16

Tgt Ion:	180	Resp:	128329
Ion Ratio		Lower	Upper
180	100		
182	93.3	48.1	144.4
145	29.6	15.3	45.9

