

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052255.D
 Acq On : 12 Nov 2018 12:05
 Operator : MD\SY
 Sample : VN1112WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBSD01

Manual Integrations
 APPROVED

MMDadoda

11/13/2018 2:54:29 PM

Quant Time: Nov 13 00:48:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	265597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	449766	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	417788	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	181192	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	175614	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
35) Dibromofluoromethane	7.59	113	142377	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	10.09	98	551104	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
62) 4-Bromofluorobenzene	12.40	95	180186	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	56875	19.697	ug/l	96
3) Chloromethane	2.06	50	76130	18.885	ug/l	100
4) Vinyl Chloride	2.19	62	63499	18.905	ug/l	99
5) Bromomethane	2.56	94	41190	19.329	ug/l	90
6) Chloroethane	2.70	64	37162	18.632	ug/l	98
7) Trichlorofluoromethane	3.02	101	87009	18.609	ug/l	100
8) Diethyl Ether	3.41	74	33193	18.046	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.76	101	54311	18.105	ug/l	96
10) Methyl Iodide	3.95	142	72342	18.587	ug/l	99
11) Tert butyl alcohol	4.78	59	12369	66.432	ug/l #	71
12) 1,1-Dichloroethene	3.74	96	49452	17.810	ug/l	94
13) Acrolein	3.60	56	25890	111.480	ug/l	98
14) Allyl chloride	4.32	41	97382	16.751	ug/l	92
15) Acrylonitrile	4.98	53	109518	95.703	ug/l	97
16) Acetone	3.81	43	84585	85.008	ug/l	98
17) Carbon Disulfide	4.06	76	142475	17.688	ug/l	100
18) Methyl Acetate	4.32	43	55904	18.419	ug/l	100
19) Methyl tert-butyl Ether	5.04	73	150939	19.027	ug/l	98
20) Methylene Chloride	4.55	84	64594	19.507	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	55627	18.433	ug/l	96
22) Diisopropyl ether	5.95	45	223039	19.139	ug/l	98
23) Vinyl Acetate	5.89	43	760332	95.083	ug/l	100
24) 1,1-Dichloroethane	5.85	63	114920	18.670	ug/l	100
25) 2-Butanone	6.83	43	130409	84.162	ug/l	97
26) 2,2-Dichloropropane	6.83	77	83065	18.477	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	64119	18.981	ug/l	100
28) Bromochloromethane	7.19	49	61033	20.067	ug/l	98
29) Tetrahydrofuran	7.21	42	87775	87.041	ug/l	98
30) Chloroform	7.37	83	110620	18.989	ug/l	96
31) Cyclohexane	7.65	56	112460	19.340	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	87760	18.483	ug/l	99
36) 1,1-Dichloropropene	7.79	75	83519	18.398	ug/l	98
37) Ethyl Acetate	6.92	43	53427	15.647	ug/l	98
38) Carbon Tetrachloride	7.77	117	77961	18.950	ug/l	99

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	97913	18.909	ug/l	96
40) Benzene	8.04	78	247577	19.048	ug/l	99
41) Methacrylonitrile	7.17	41	29229	14.732	ug/l	89
42) 1,2-Dichloroethane	8.12	62	85732	18.799	ug/l	99
43) Isopropyl Acetate	8.16	43	106852	17.954	ug/l	98
44) Trichloroethene	8.83	130	61561	18.901	ug/l	97
45) 1,2-Dichloropropane	9.12	63	70356	19.376	ug/l	98
46) Dibromomethane	9.21	93	38418	18.419	ug/l	98
47) Bromodichloromethane	9.40	83	97418	22.543	ug/l	99
48) Methyl methacrylate	9.20	41	55336	17.646	ug/l	99
49) 1,4-Dioxane	9.20	88	7791	309.062	ug/l	95
51) 4-Methyl-2-Pentanone	9.98	43	298442	90.801	ug/l	100
52) Toluene	10.15	92	185958	23.717	ug/l #	1
53) t-1,3-Dichloropropene	10.38	75	81408	19.090	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	101477	20.158	ug/l #	76
55) 1,1,2-Trichloroethane	10.56	97	52237	18.433	ug/l	97
56) Ethyl methacrylate	10.43	69	69232	18.076	ug/l	99
57) 1,3-Dichloropropane	10.71	76	96263	18.975	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	213282	100.567	ug/l	99
59) 2-Hexanone	10.75	43	200172	86.756	ug/l	99
60) Dibromochloromethane	10.90	129	55082	19.162	ug/l	94
61) 1,2-Dibromoethane	11.00	107	52658	18.906	ug/l	99
64) Tetrachloroethene	10.63	164	54392	18.595	ug/l	95
65) Chlorobenzene	11.43	112	164320	18.562	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	55665	18.563	ug/l	99
67) Ethyl Benzene	11.51	91	294452	18.910	ug/l	98
68) m/p-Xylenes	11.62	106	220816	38.079	ug/l	96
69) o-Xylene	11.95	106	108641	19.610	ug/l #	1
70) Styrene	11.96	104	174825	19.532	ug/l #	89
71) Bromoform	12.12	173	33547	18.753	ug/l #	98
73) Isopropylbenzene	12.25	105	284007	19.174	ug/l	99
74) N-amyl acetate	12.07	43	96987	18.036	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	65029	17.909	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	58945m	18.387	ug/l	
77) Bromobenzene	12.53	156	64674	18.654	ug/l	81
78) n-propylbenzene	12.59	91	361753m	20.853	ug/l	
79) 2-Chlorotoluene	12.67	91	194400	19.344	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	235013	19.951	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	17527	18.662	ug/l	96
82) 4-Chlorotoluene	12.77	91	239595	23.760	ug/l	87
83) tert-Butylbenzene	12.99	119	198727	19.324	ug/l	94
84) 1,2,4-Trimethylbenzene	13.04	105	232018	19.535	ug/l	100
85) sec-Butylbenzene	13.17	105	274382	19.456	ug/l	100
86) p-Isopropyltoluene	13.29	119	233402	19.783	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	116084	19.233	ug/l	99
88) 1,4-Dichlorobenzene	13.35	146	225185	37.268	ug/l	99
89) n-Butylbenzene	13.62	91	204413	19.457	ug/l	99
90) Hexachloroethane	13.88	117	39814	19.226	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	110801	18.811	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	9437	18.281	ug/l	96

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Manual Integrations
APPROVED

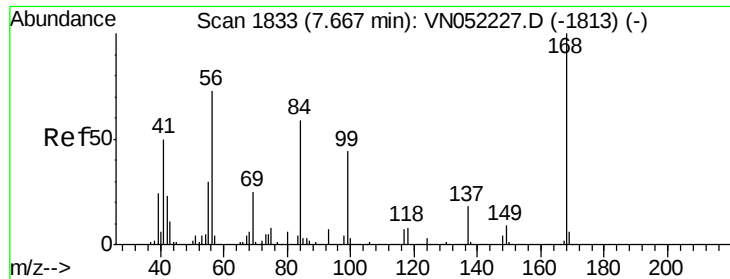
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	45144	19.382	ug/l	96
94) Hexachlorobutadiene	15.01	225	26777	21.156	ug/l	99
95) Naphthalene	15.13	128	100496	17.506	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	39636	17.999	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion:168 Resp: 265597

Ion Ratio Lower Upper

168 100

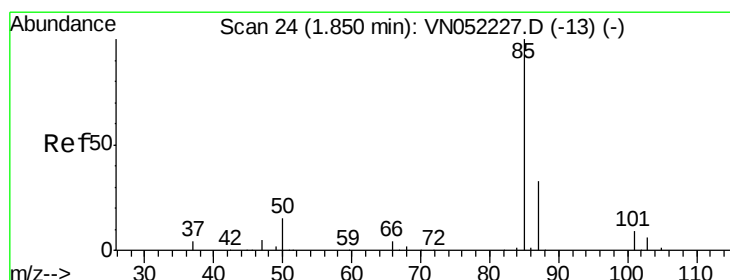
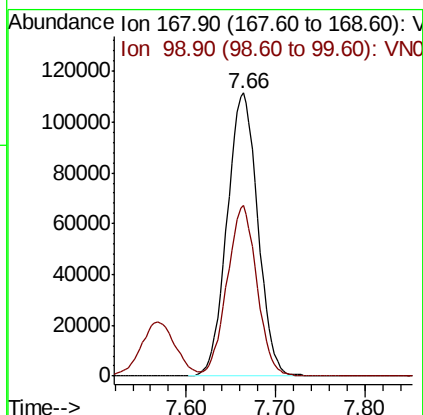
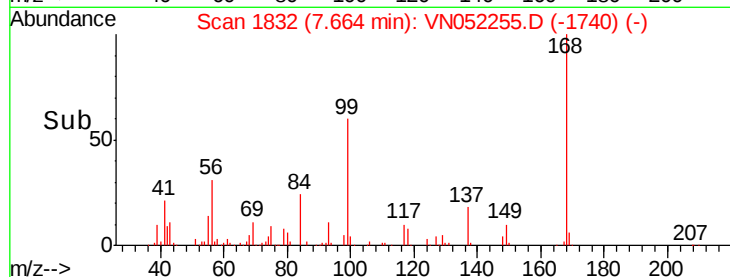
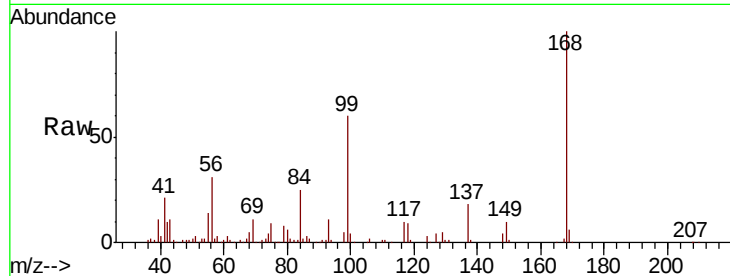
99 60.1 44.7 67.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 19.697 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052255.D

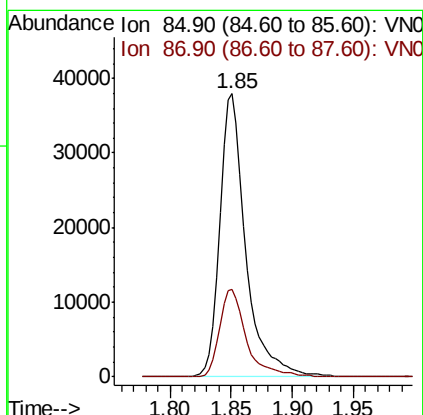
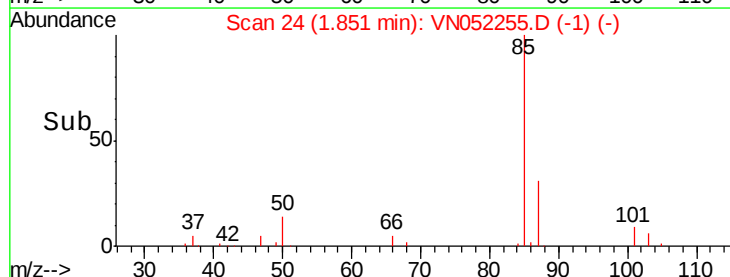
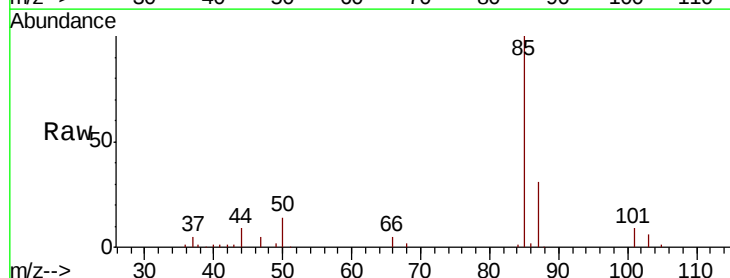
Acq: 12 Nov 2018 12:05

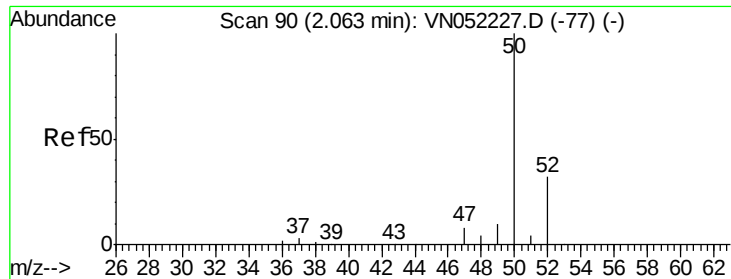
Tgt Ion: 85 Resp: 56875

Ion Ratio Lower Upper

85 100

87 31.0 16.7 50.0





#3

Chloromethane

Concen: 18.885 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion: 50 Resp: 76130

Ion Ratio Lower Upper

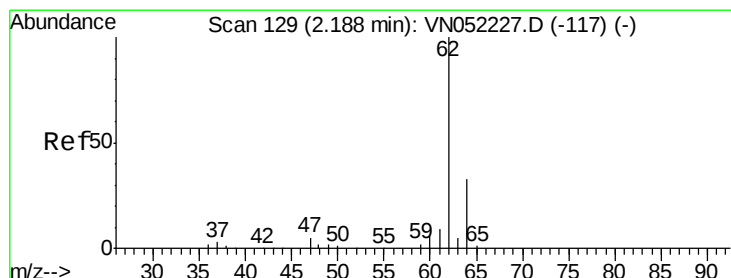
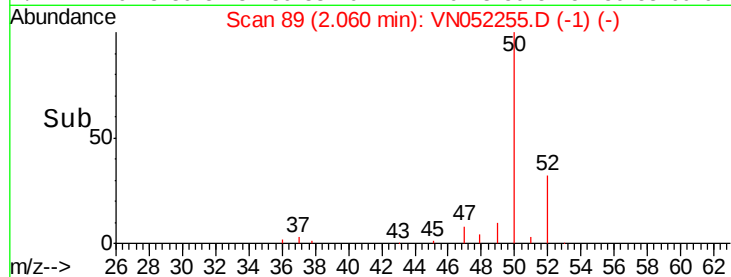
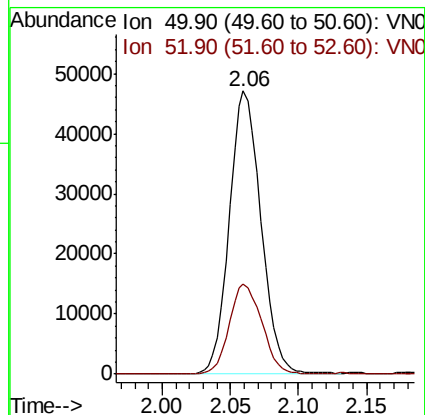
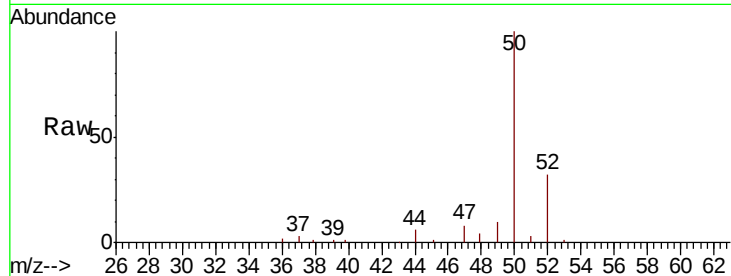
50 100

52 32.0 25.7 38.5

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.905 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN052255.D

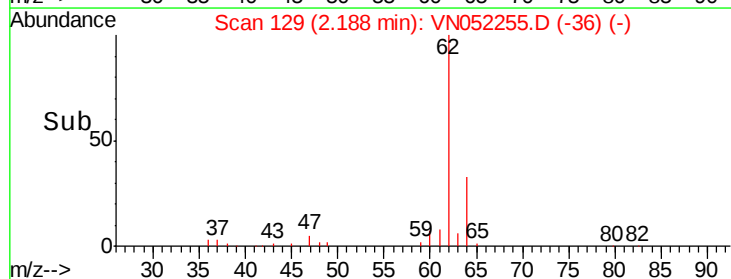
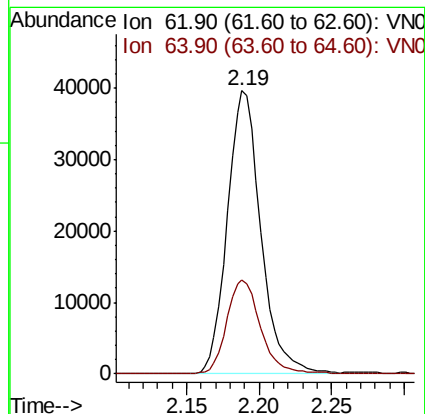
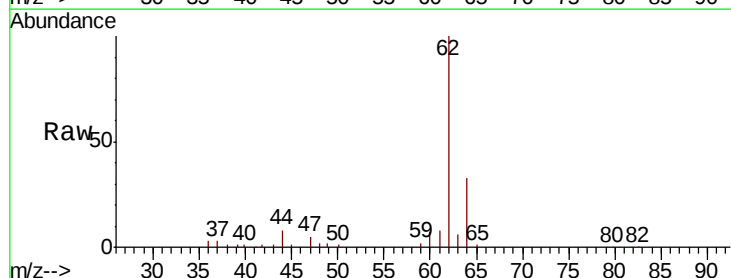
Acq: 12 Nov 2018 12:05

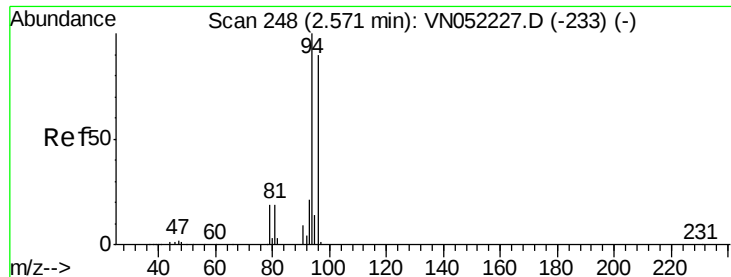
Tgt Ion: 62 Resp: 63499

Ion Ratio Lower Upper

62 100

64 33.2 26.1 39.1





#5

Bromomethane

Concen: 19.329 ug/l

RT: 2.56 min Scan# 244

Delta R.T. -0.01 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion: 94 Resp: 41190

Ion Ratio Lower Upper

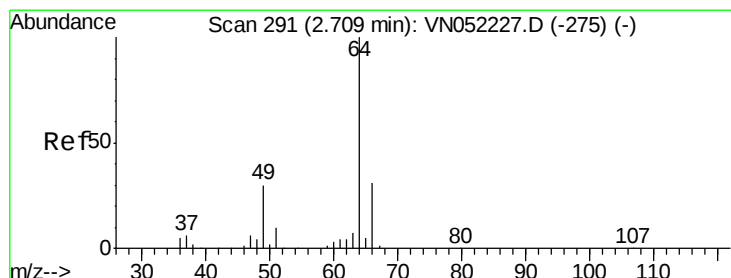
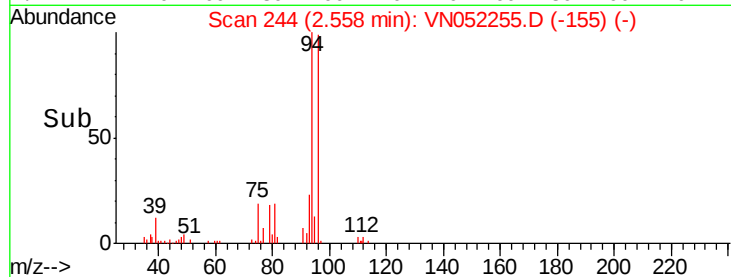
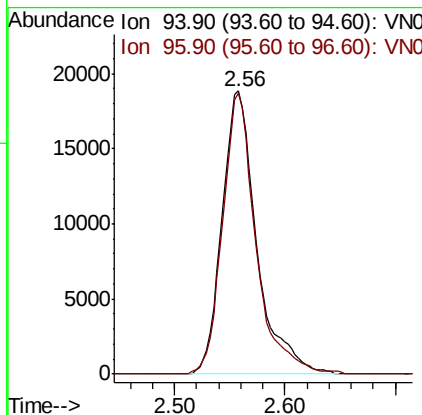
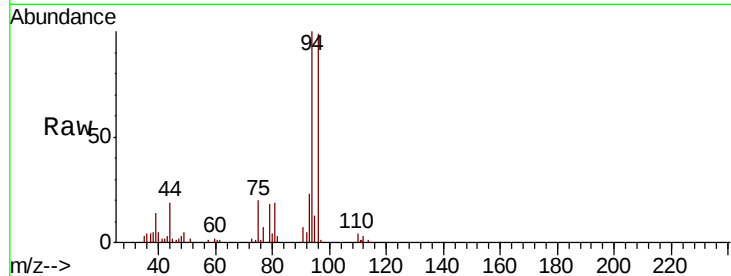
94 100

96 99.4 71.8 107.8

Manual Integrations
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#6

Chloroethane

Concen: 18.632 ug/l

RT: 2.70 min Scan# 288

Delta R.T. -0.01 min

Lab File: VN052255.D

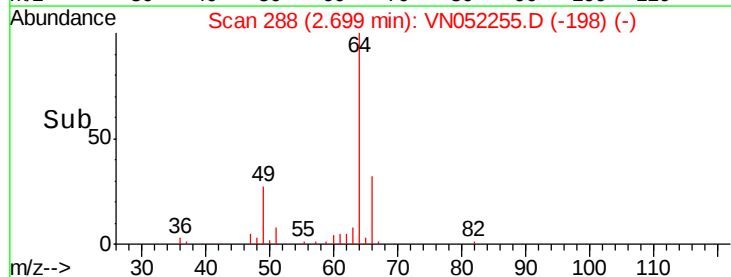
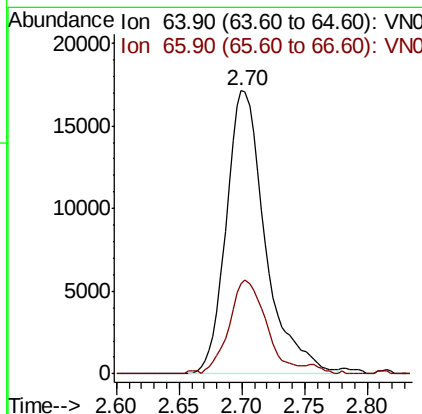
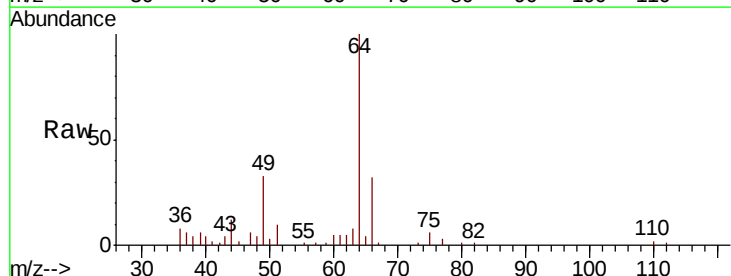
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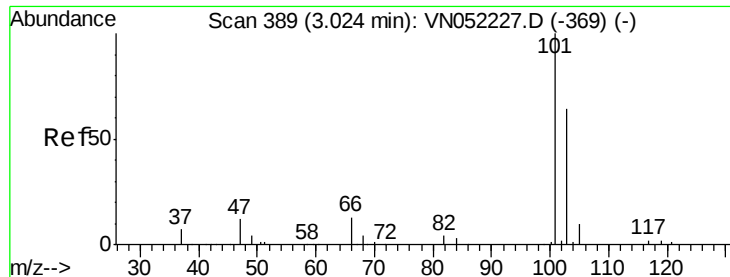
Tgt Ion: 64 Resp: 37162

Ion Ratio Lower Upper

64 100

66 32.0 24.6 36.8





#7

Trichlorofluoromethane
Concen: 18.609 ug/l
RT: 3.02 min Scan# 388
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

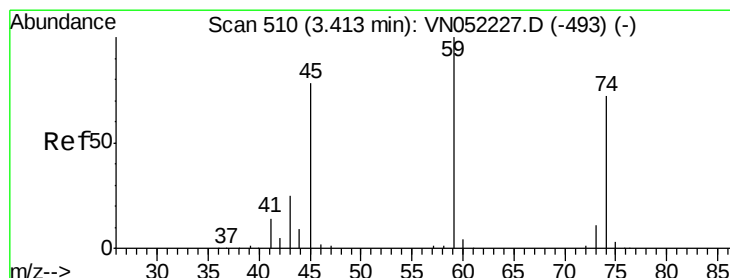
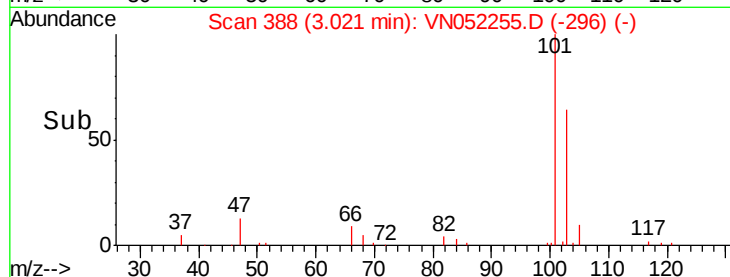
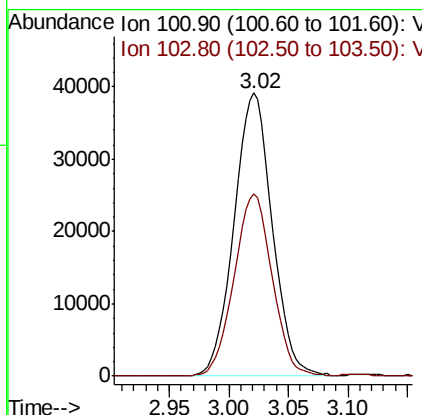
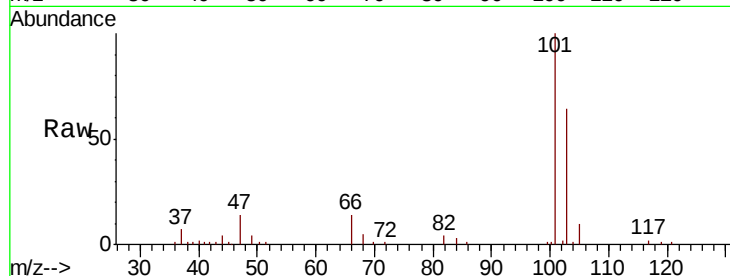
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Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	64.2	51.2	76.8	

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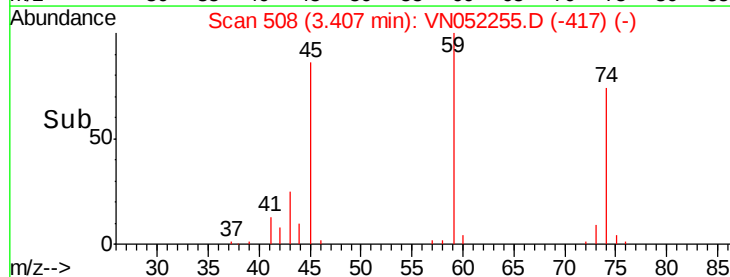
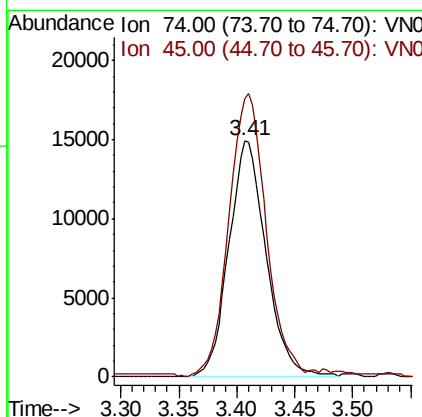
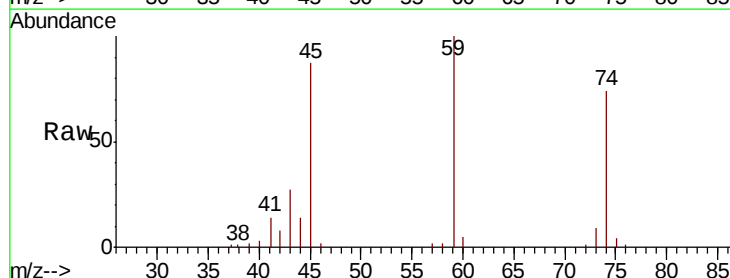
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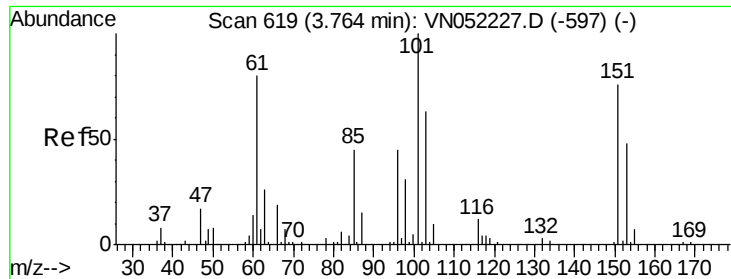


#8

Diethyl Ether
Concen: 18.046 ug/l
RT: 3.41 min Scan# 508
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ion	Ratio	Lower	Upper
74	100			
45	120.0	55.5	166.7	





#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.105 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: VN052255.D
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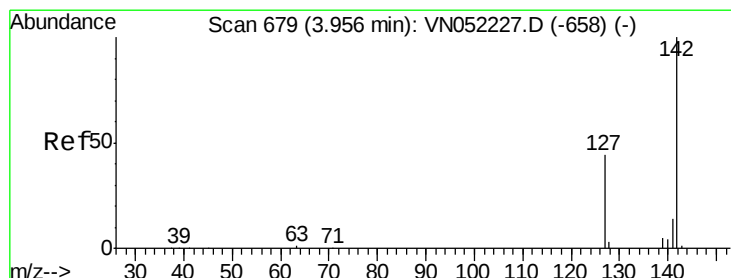
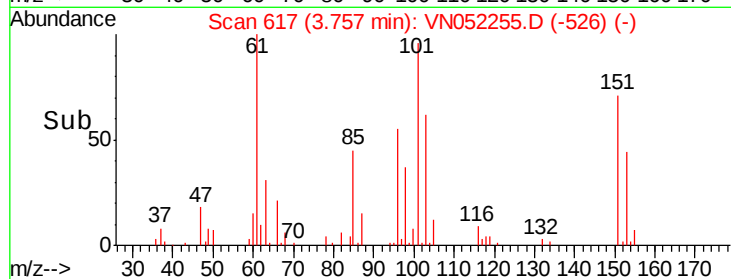
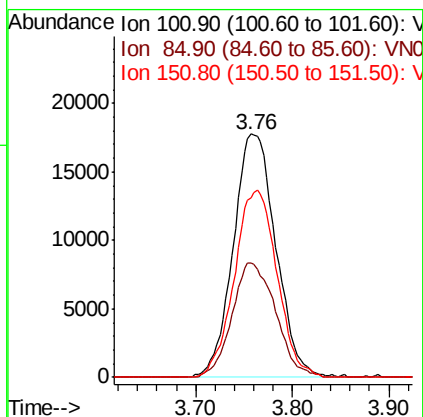
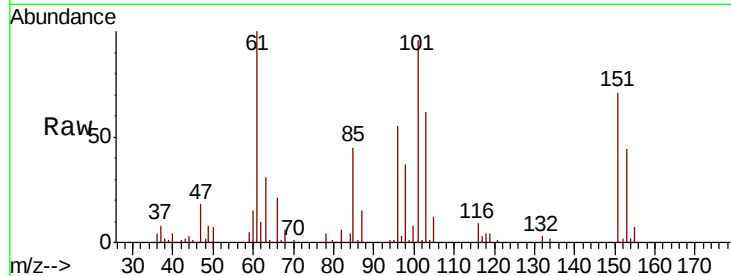
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Tot Ion	Ratio	Lower	Upper
101	100		
85	48.0	36.2	54.4
151	77.0	59.2	88.8

Manual Integrations
 APPROVED

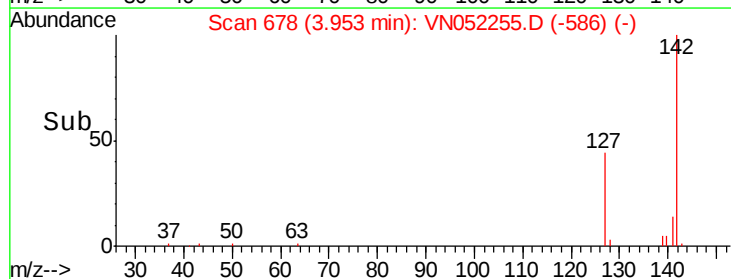
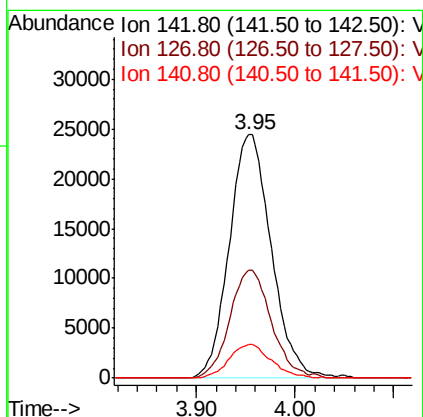
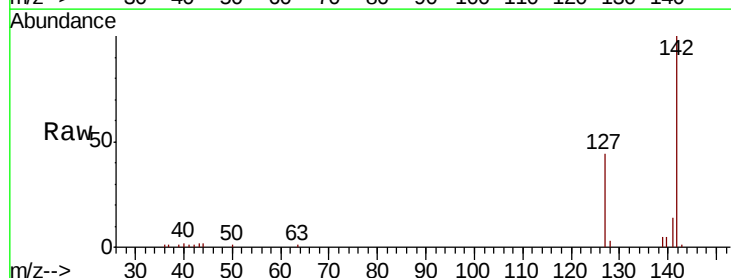
MMDadoda

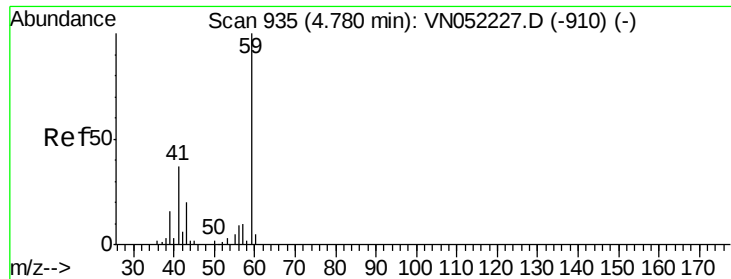
11/13/2018 2:54:29 PM



#10
 Methyl Iodide
 Concen: 18.587 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. -0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
142	100		
127	43.9	35.3	52.9
141	13.8	11.8	17.6





#11
Tert butyl alcohol
Concen: 66.432 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

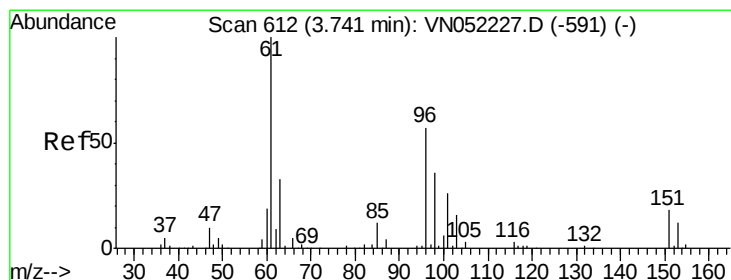
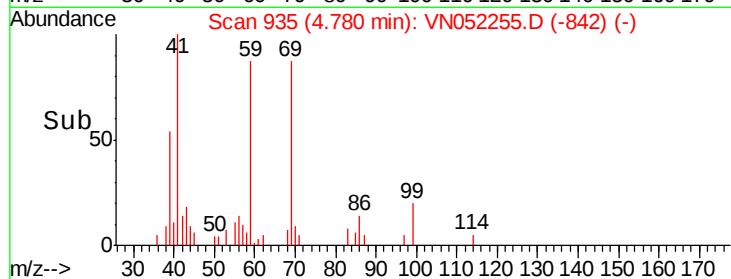
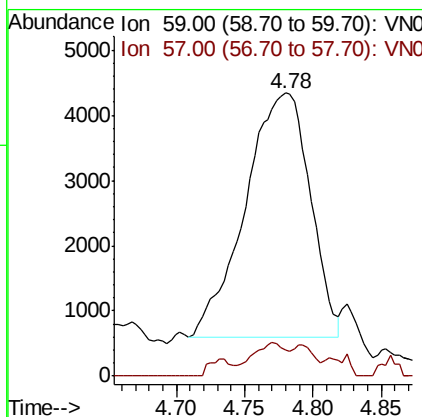
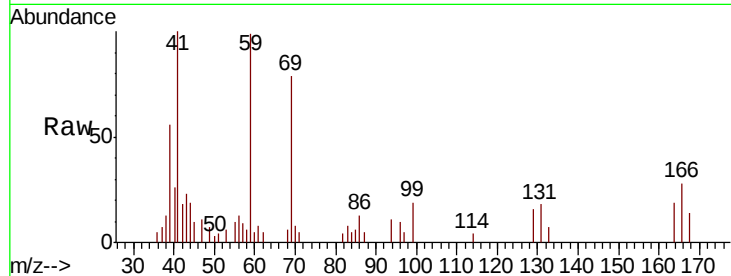
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

Manual Integrations
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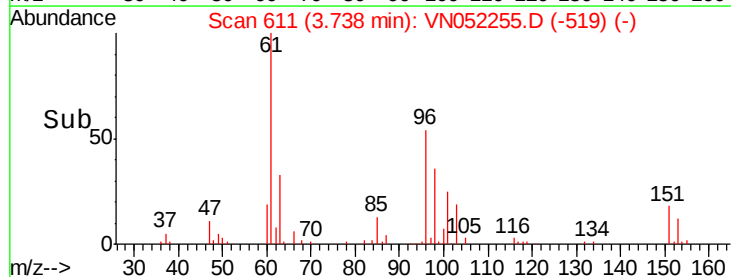
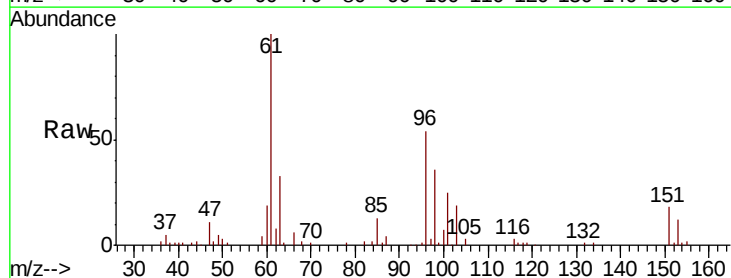
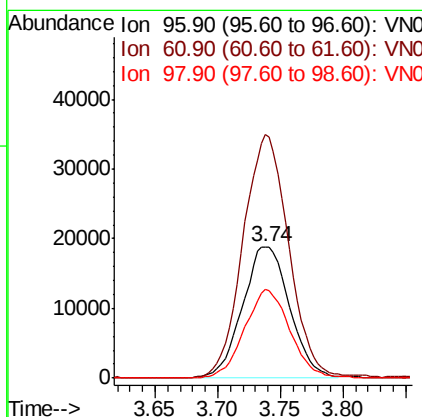
MMDadoda

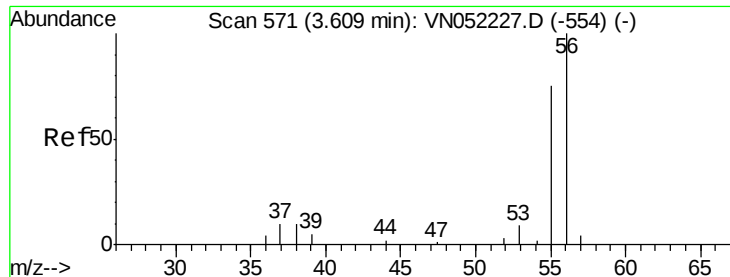
11/13/2018 2:54:29 PM



#12
1,1-Dichloroethene
Concen: 17.810 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	185.3	141.1	211.7
98	67.4	50.3	75.5





#13

Acrolein

Concen: 111.480 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion: 56 Resp: 25890

Ion Ratio Lower Upper

56 100

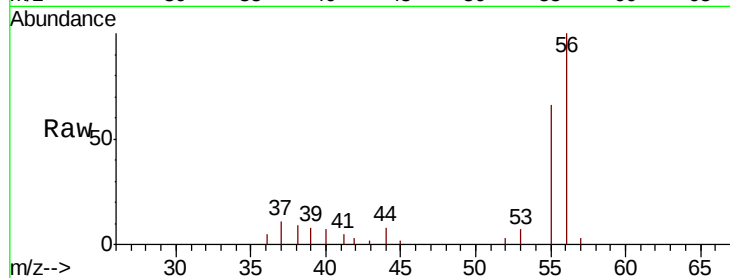
55 73.4 59.9 89.9

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12000

10000

8000

6000

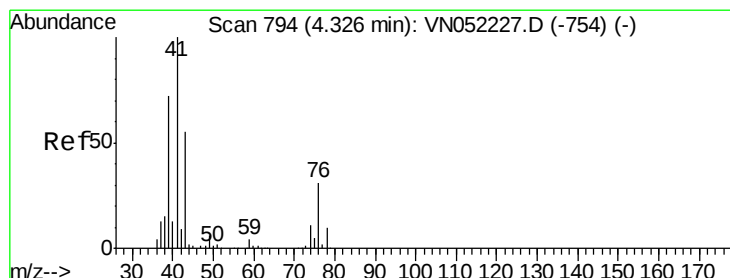
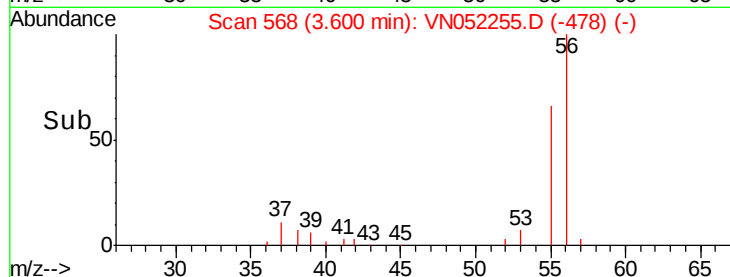
4000

2000

0

3.50 3.55 3.60 3.65 3.70

Time-->



#14

Allyl chloride

Concen: 16.751 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

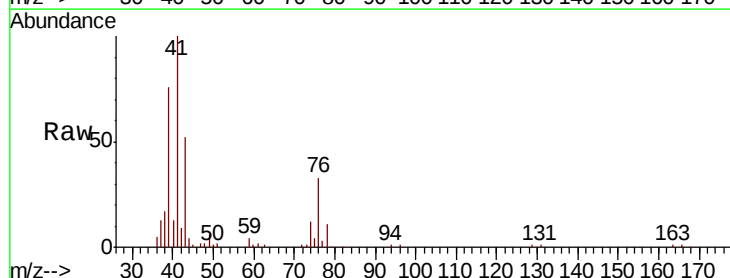
Tgt Ion: 41 Resp: 97382

Ion Ratio Lower Upper

41 100

39 75.8 55.1 82.7

76 33.4 23.6 35.4



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

40000

30000

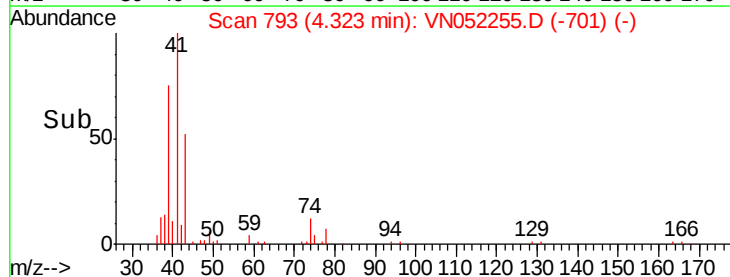
20000

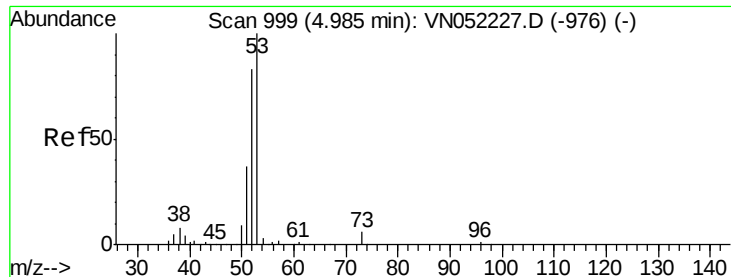
10000

0

4.20 4.30 4.40

Time-->





#15

Acrylonitrile

Concen: 95.703 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion: 53 Resp: 109518

Ion Ratio Lower Upper

53 100

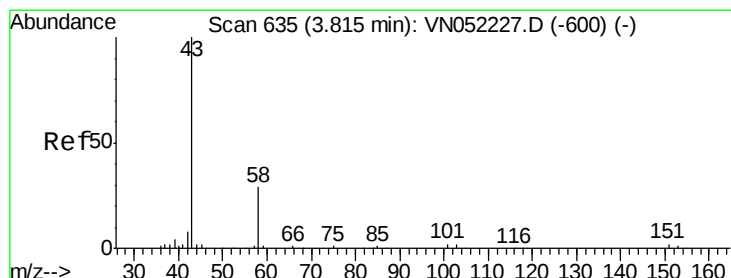
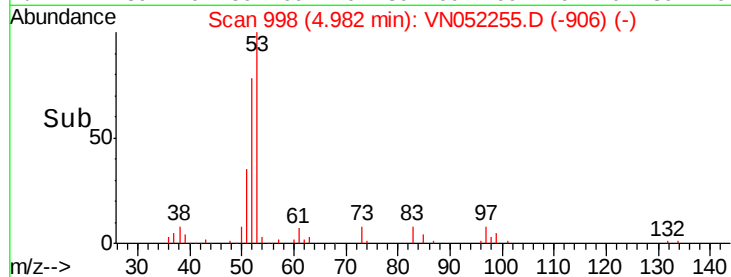
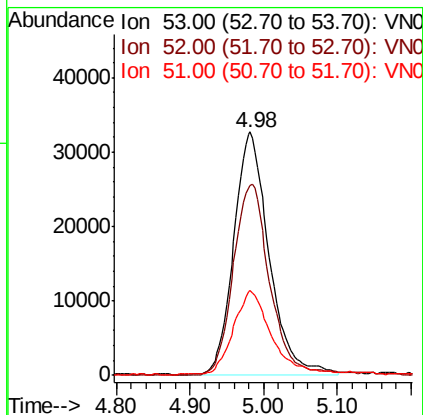
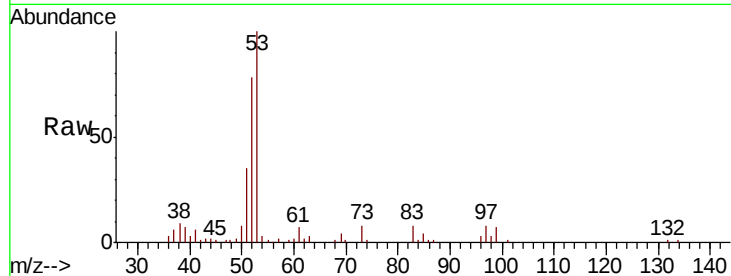
52 80.1 66.7 100.1

51 35.3 29.4 44.0

Manual Integrations
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#16

Acetone

Concen: 85.008 ug/l

RT: 3.81 min Scan# 633

Delta R.T. -0.01 min

Lab File: VN052255.D

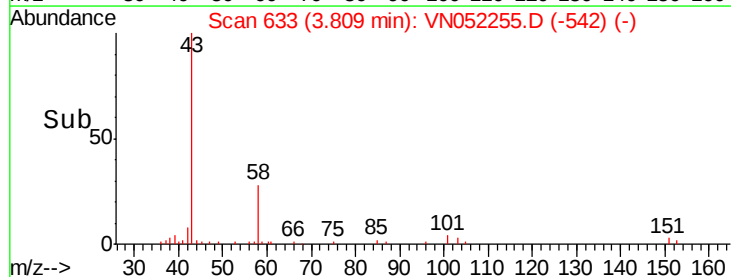
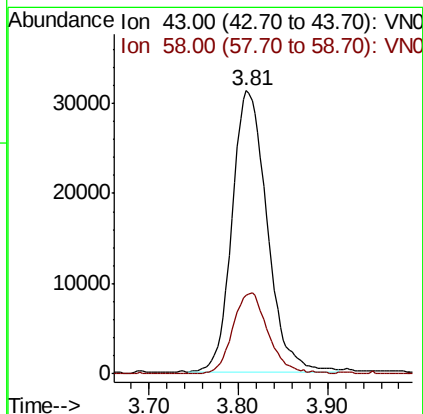
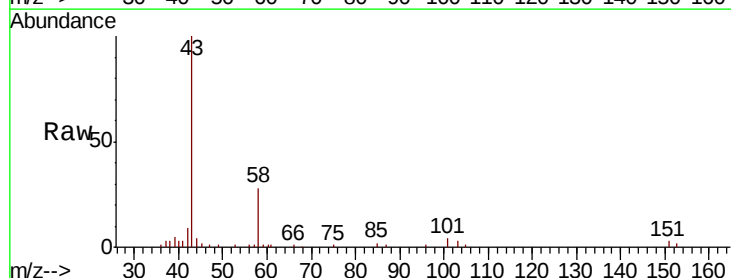
Acq: 12 Nov 2018 12:05

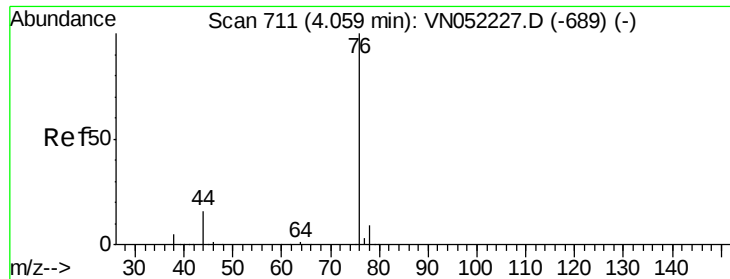
Tgt Ion: 43 Resp: 84585

Ion Ratio Lower Upper

43 100

58 28.0 23.0 34.6





#17
Carbon Disulfide
Concen: 17.688 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

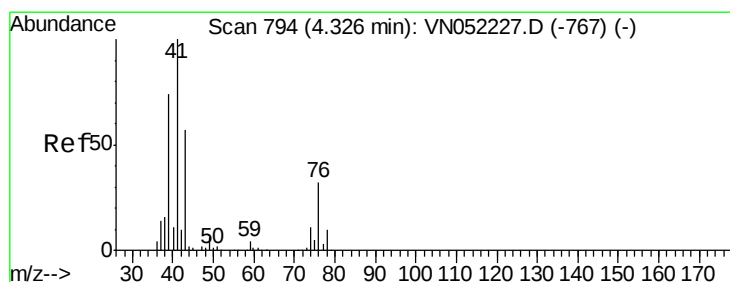
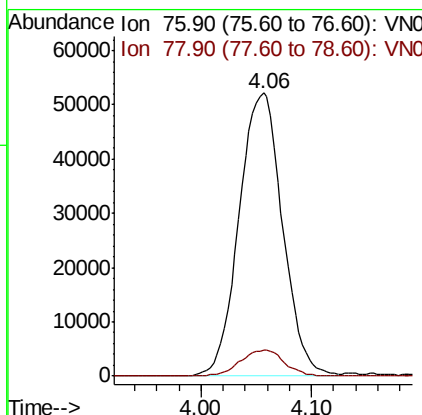
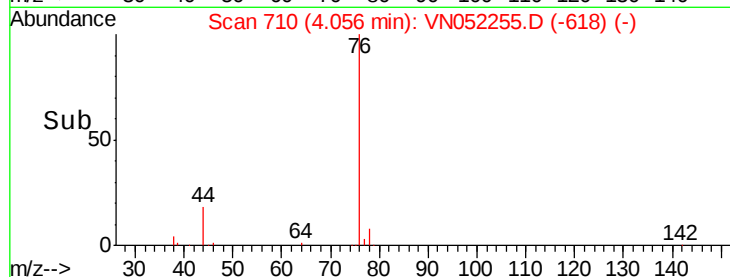
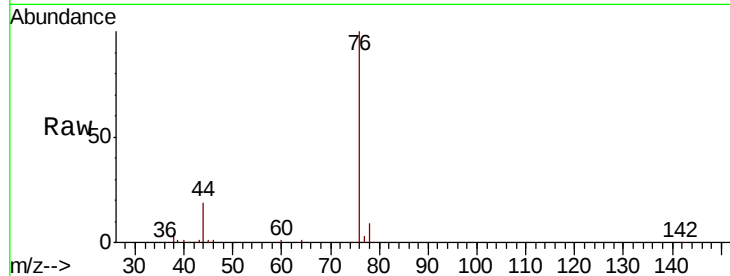
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

Manual Integrations
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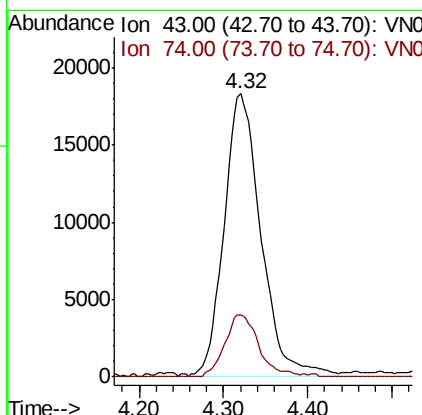
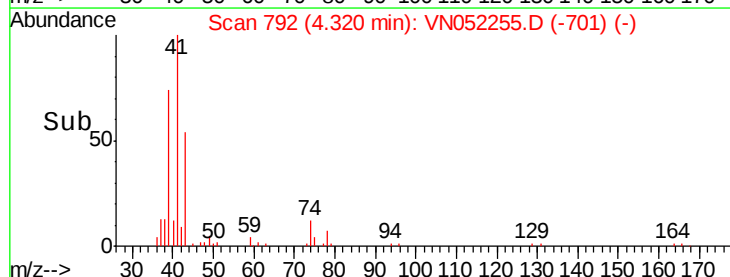
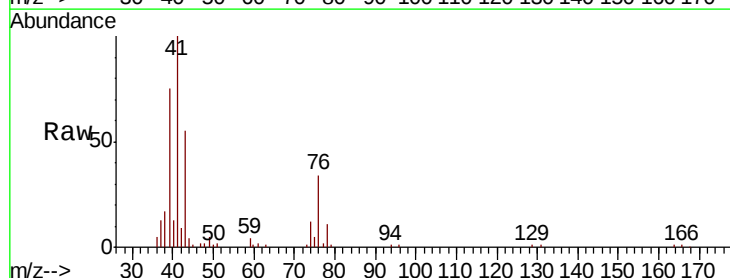
MMDadoda

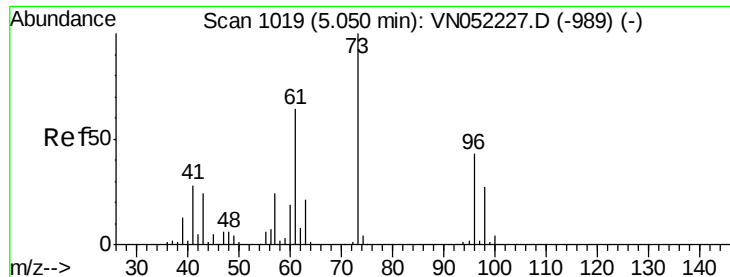
11/13/2018 2:54:29 PM



#18
Methyl Acetate
Concen: 18.419 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.1	16.2	24.2





#19
Methyl tert-butyl Ether
Concen: 19.027 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

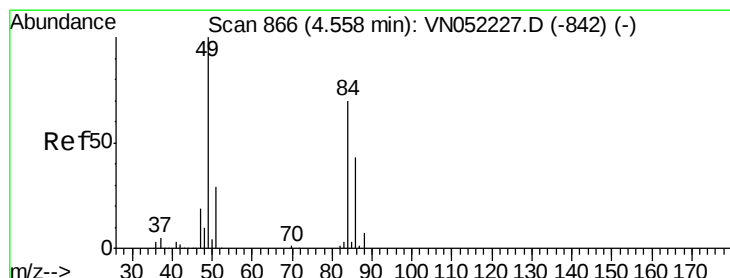
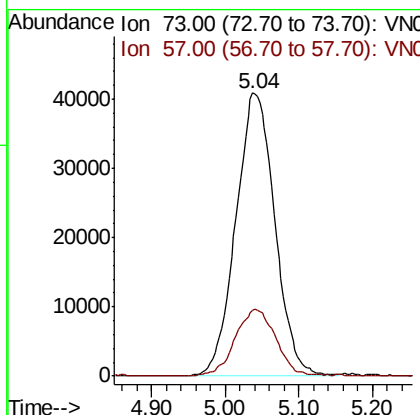
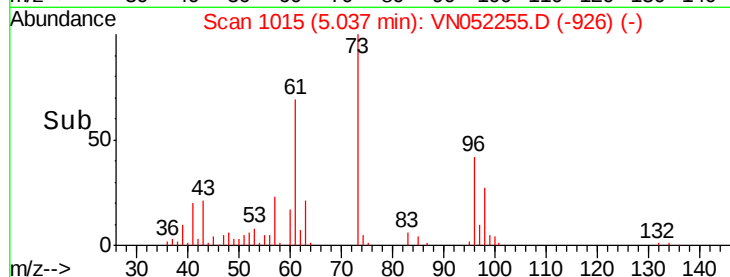
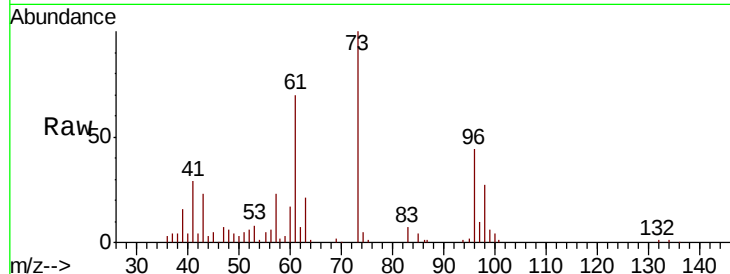
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.2	19.1	28.7

Manual Integrations
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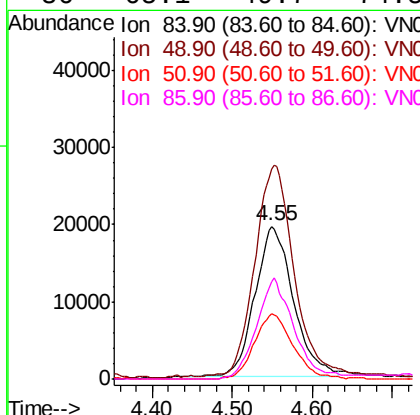
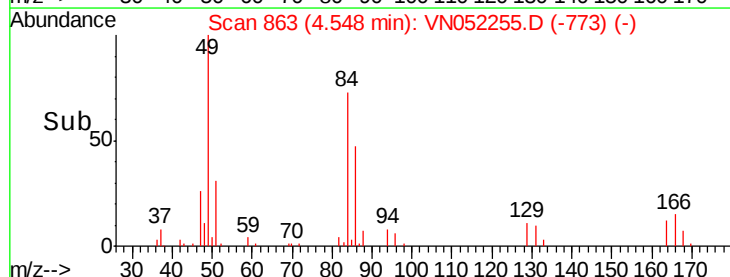
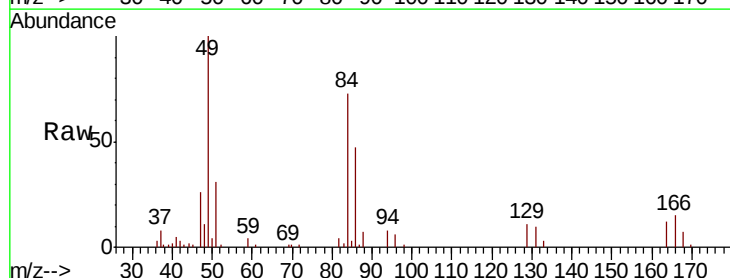
MMDadoda

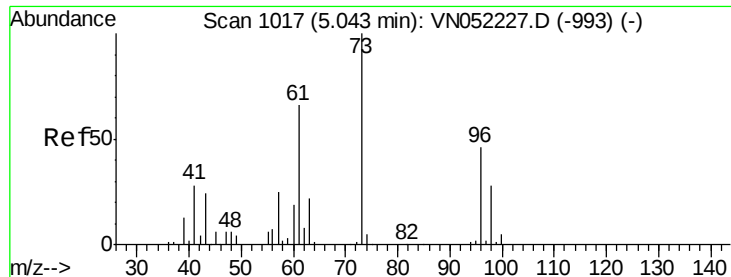
11/13/2018 2:54:29 PM



#20
Methylene Chloride
Concen: 19.507 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
84	100		
49	137.9	114.8	172.2
51	43.0	33.1	49.7
86	65.1	49.7	74.5





#21
trans-1,2-Dichloroethene
Concen: 18.433 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

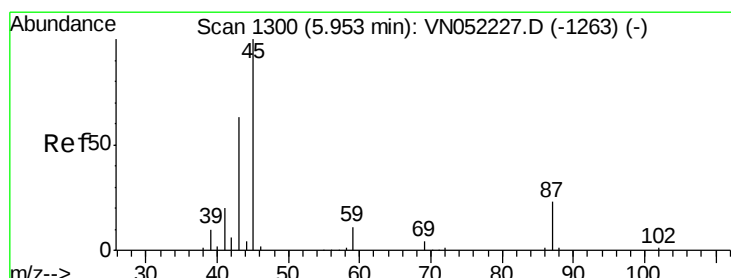
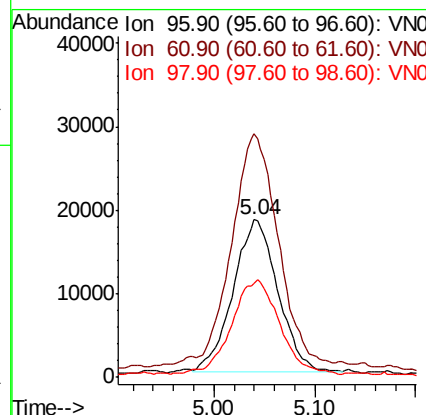
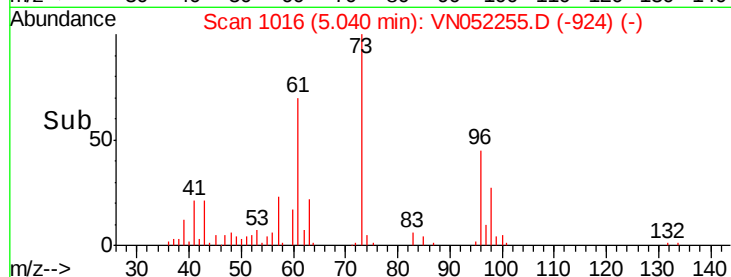
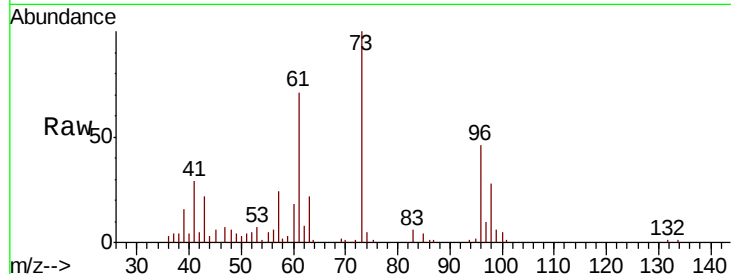
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.8	115.3	172.9
98	60.1	49.5	74.3

Manual Integrations
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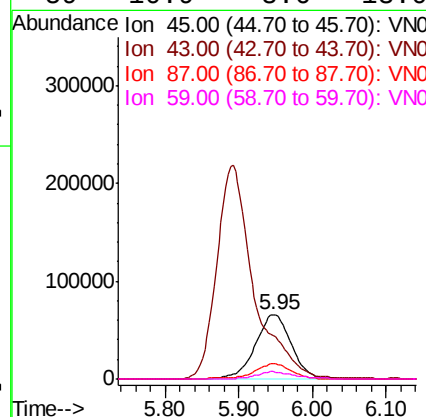
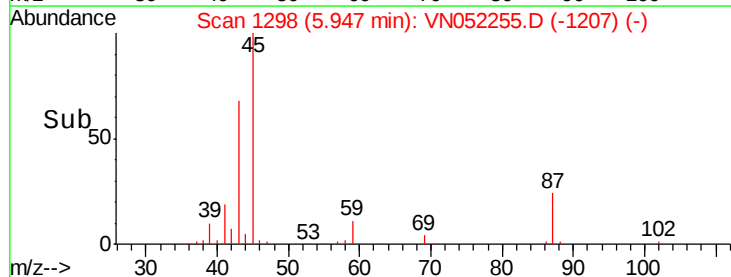
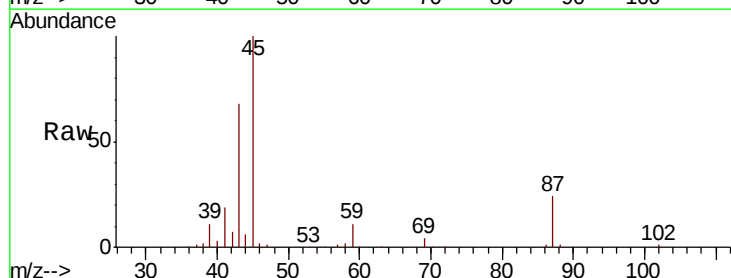
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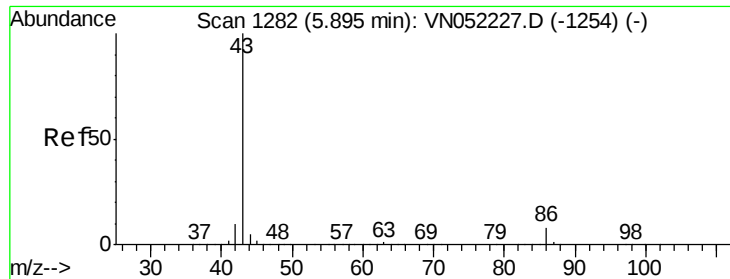
11/13/2018 2:54:29 PM



#22
Diisopropyl ether
Concen: 19.139 ug/l
RT: 5.95 min Scan# 1298
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
45	100		
43	65.7	50.6	76.0
87	24.1	19.0	28.4
59	10.9	8.6	13.0





#23

Vinyl Acetate

Concen: 95.083 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleID :

VN1112WBSD01

Tot Ion: 43 Resp: 760332

Ion Ratio Lower Upper

43 100

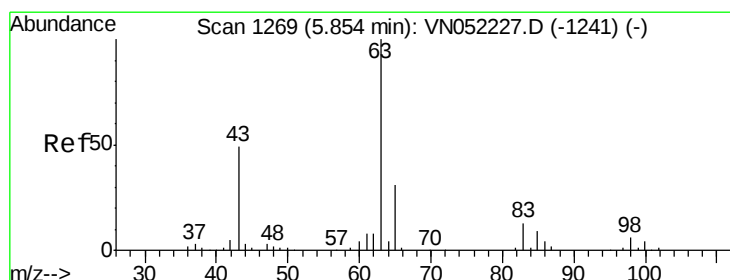
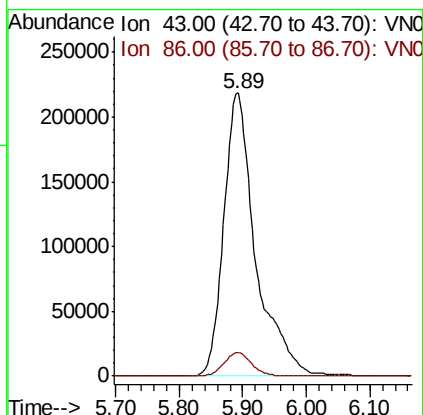
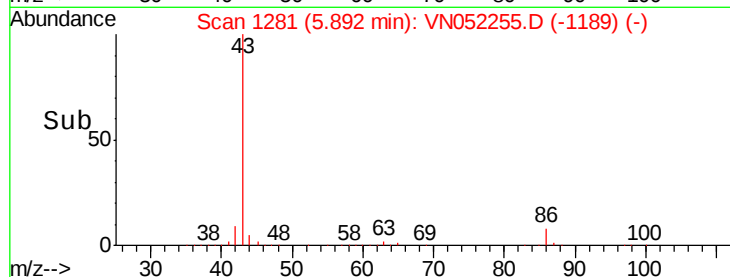
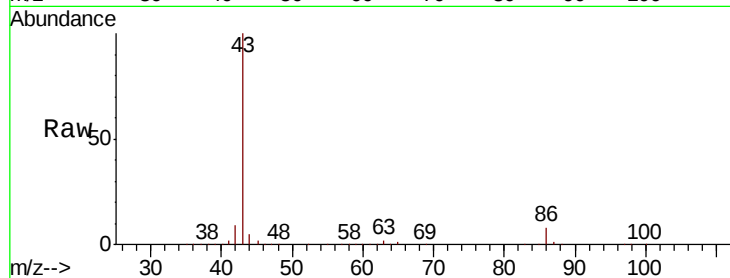
86 8.4 6.7 10.1

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 18.670 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

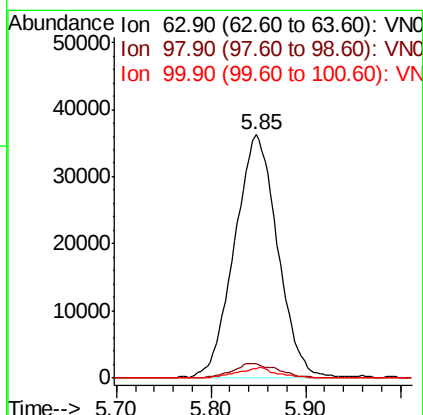
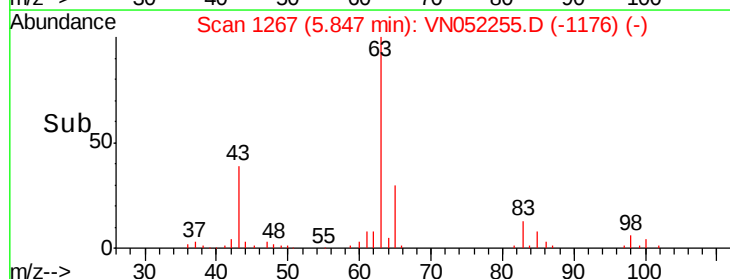
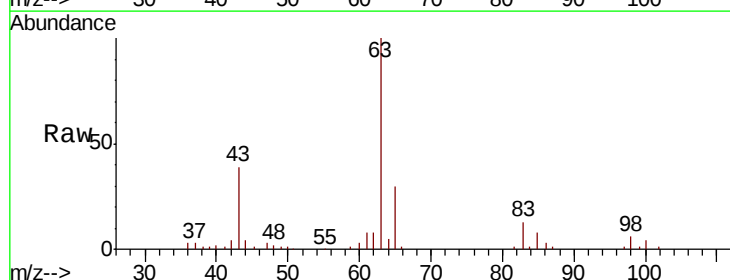
Tgt Ion: 63 Resp: 114920

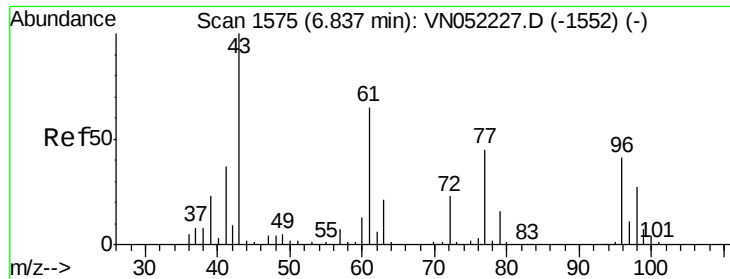
Ion Ratio Lower Upper

63 100

98 5.7 2.9 8.6

100 4.0 2.1 6.2





#25

2-Butanone

Concen: 84.162 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampled :

VN1112WBSD01

Tot Ion: 43 Resp: 130409

Ion Ratio Lower Upper

43 100

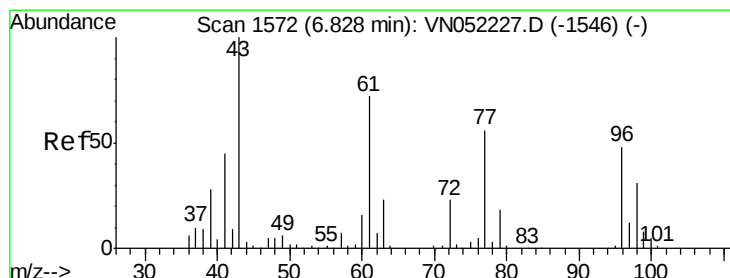
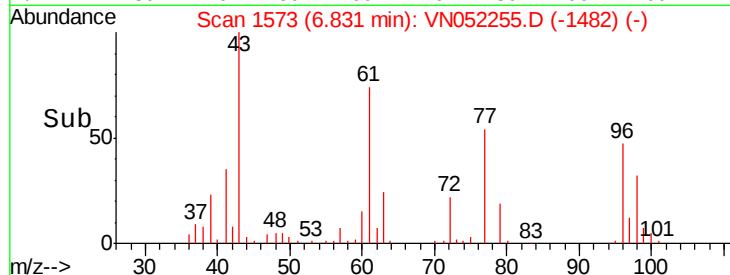
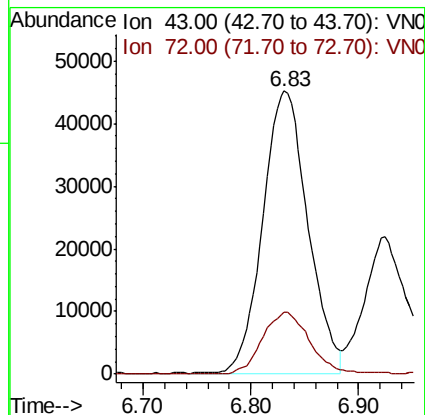
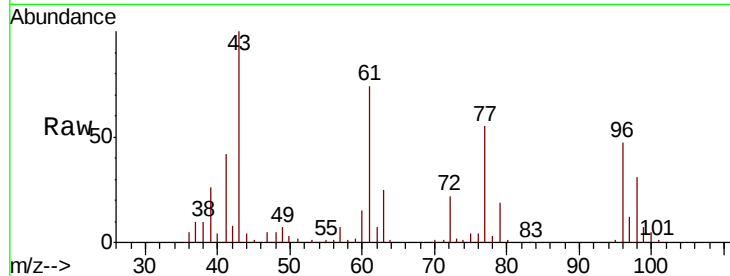
72 21.9 18.6 27.8

Manual Integrations

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MMDadoda

11/13/2018 2:54:29 PM



#26

2,2-Dichloropropane

Concen: 18.477 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052255.D

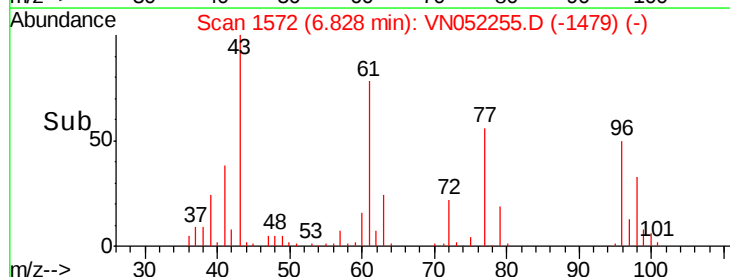
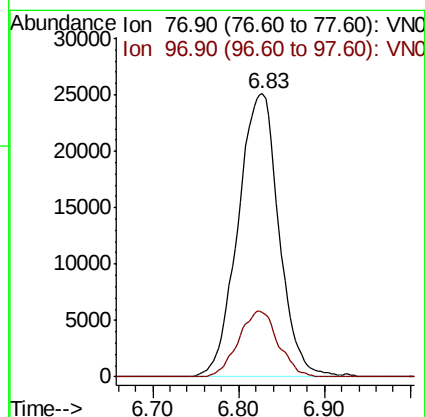
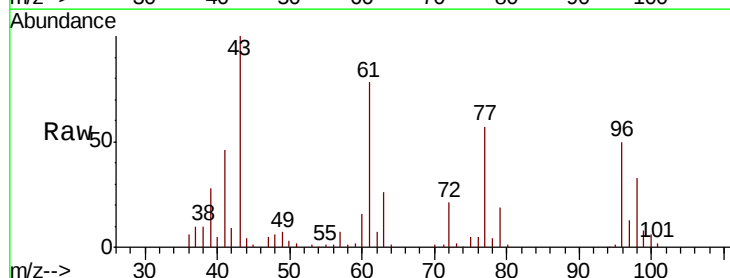
Acq: 12 Nov 2018 12:05

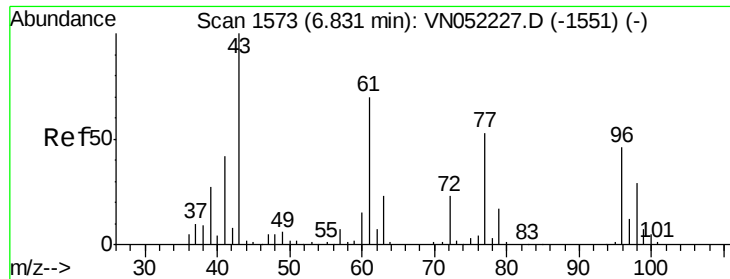
Tgt Ion: 77 Resp: 83065

Ion Ratio Lower Upper

77 100

97 22.5 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 18.981 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion: 96 Resp: 64119

Ion Ratio Lower Upper

96 100

61 157.0 0.0 313.4

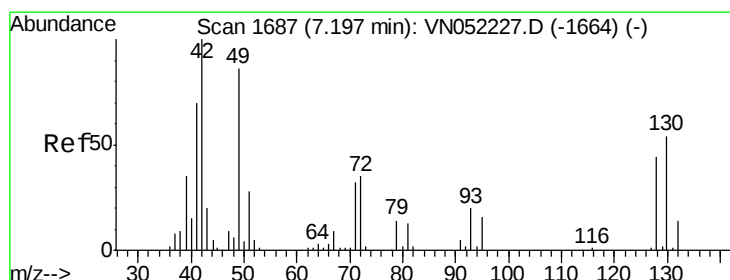
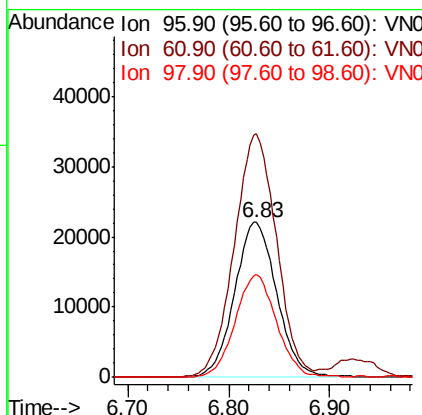
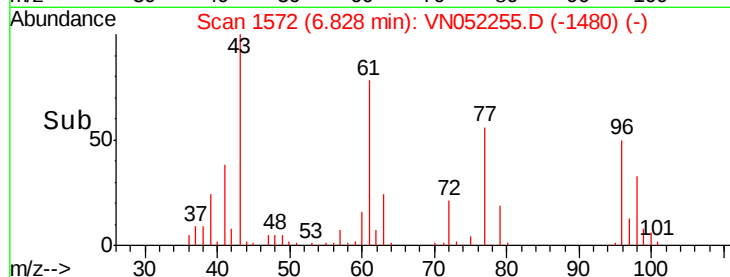
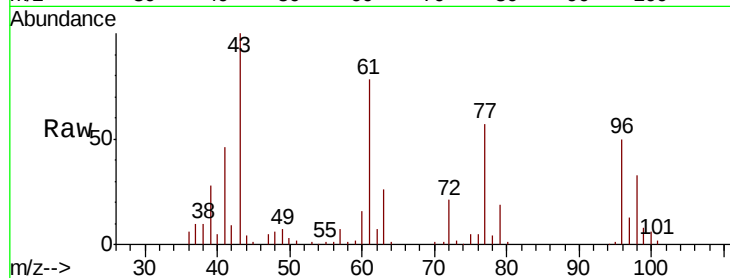
98 64.9 0.0 129.8

Manual Integrations

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#28

Bromochloromethane

Concen: 20.067 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

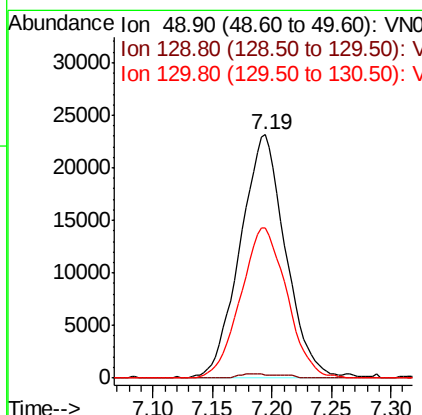
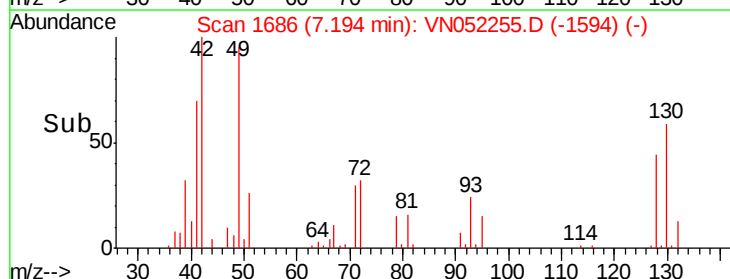
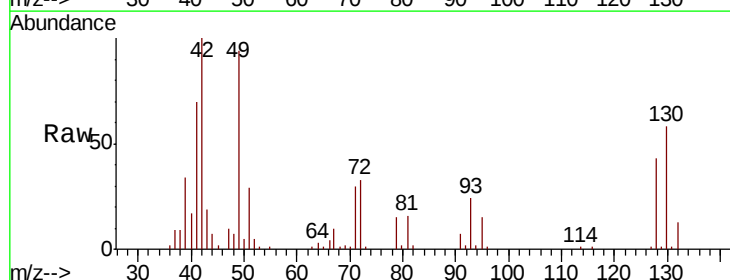
Tgt Ion: 49 Resp: 61033

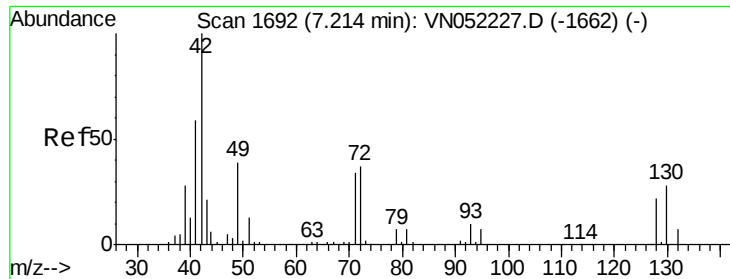
Ion Ratio Lower Upper

49 100

129 1.1 0.0 3.8

130 62.8 51.4 77.2





#29
Tetrahydrofuran
Concen: 87.041 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

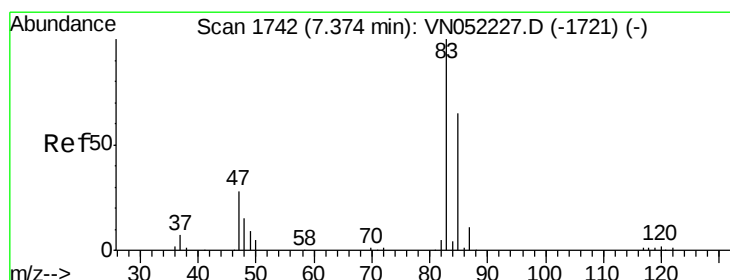
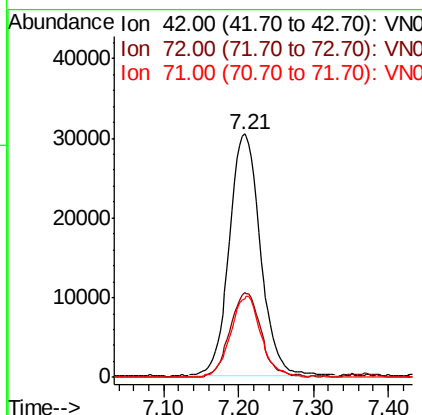
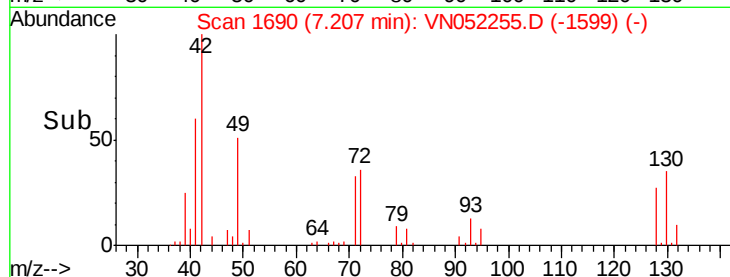
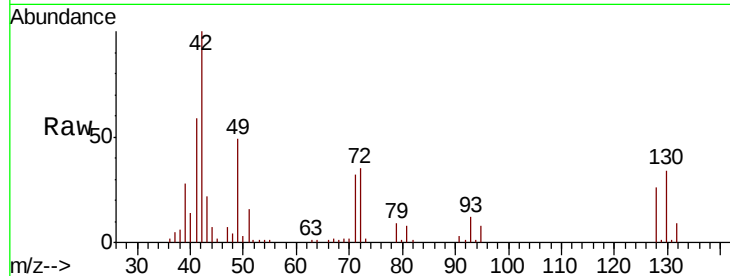
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.9	28.6	43.0
71	33.0	27.1	40.7

Manual Integrations
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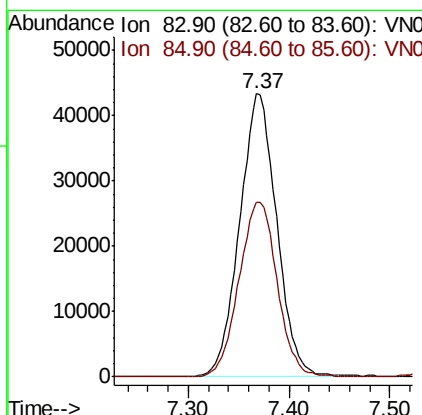
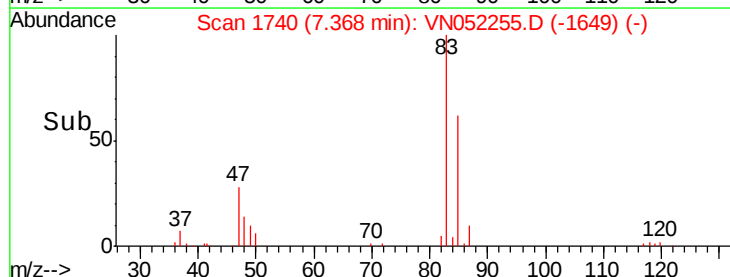
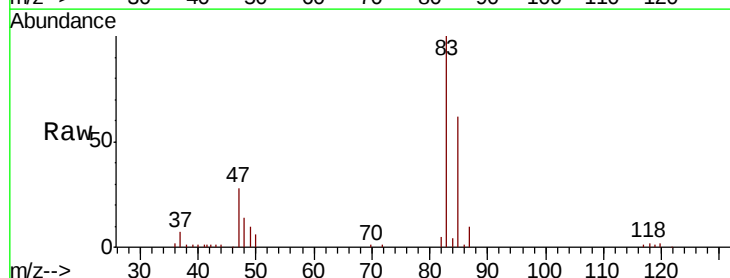
MMDadoda

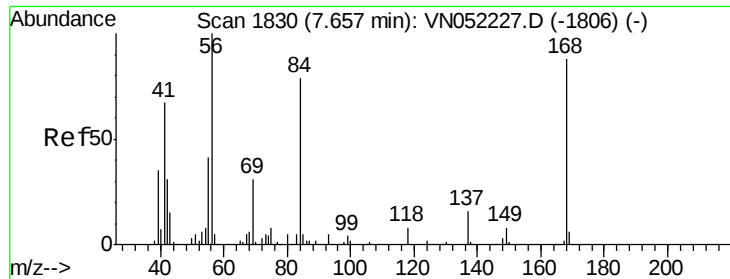
11/13/2018 2:54:29 PM



#30
Chloroform
Concen: 18.989 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.6	51.8	77.6





#31
Cyclohexane
Concen: 19.340 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

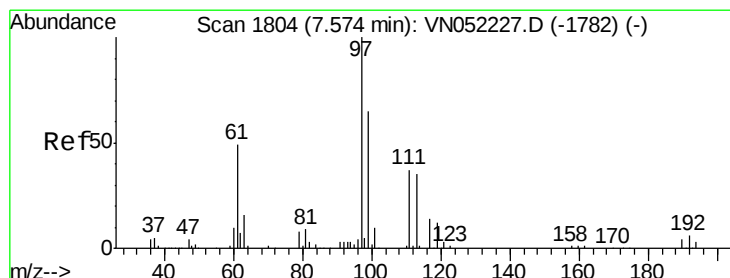
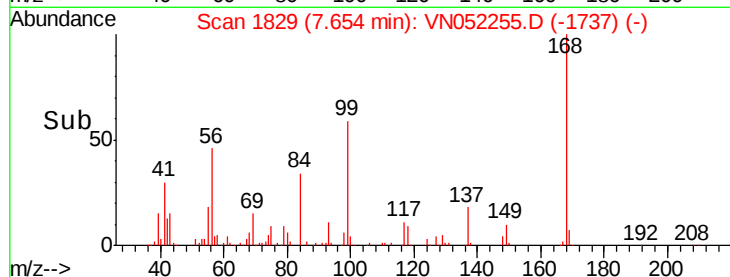
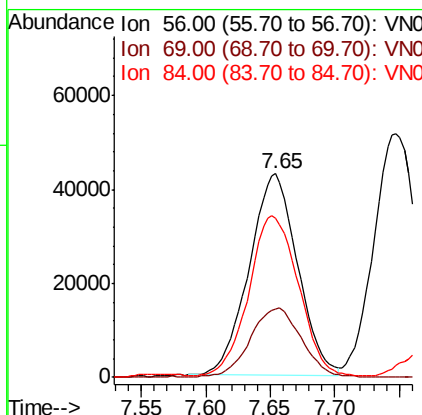
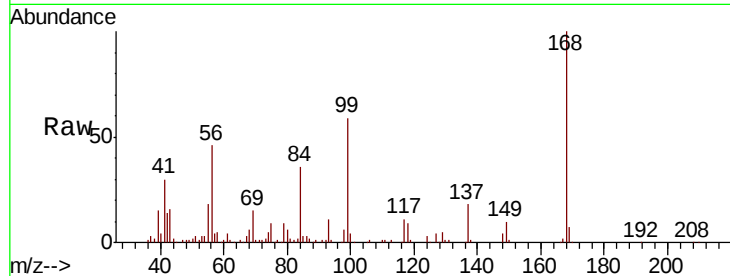
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.7	24.8	37.2
84	77.7	63.1	94.7

Manual Integrations
APPROVED

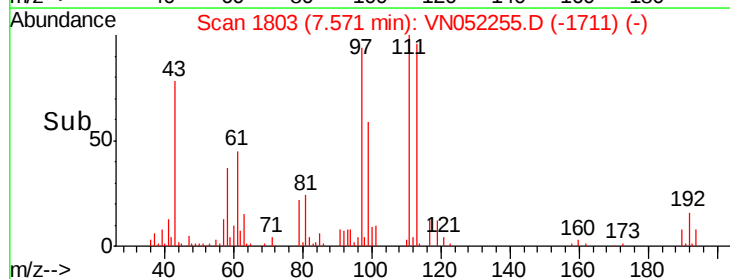
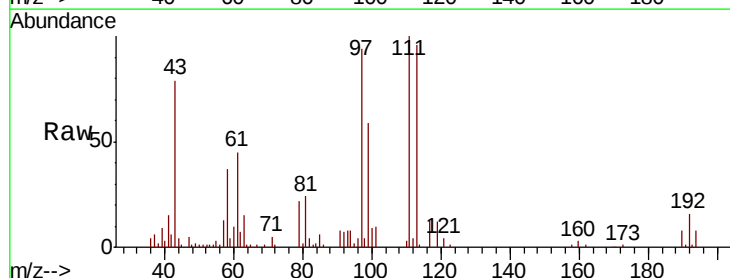
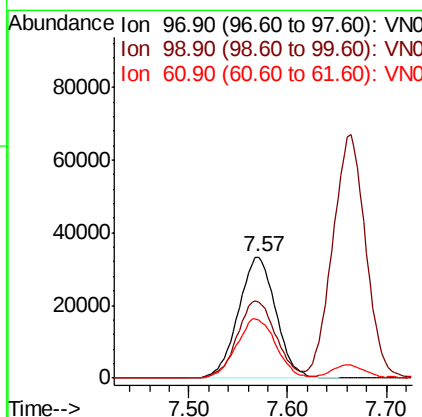
MMDadoda

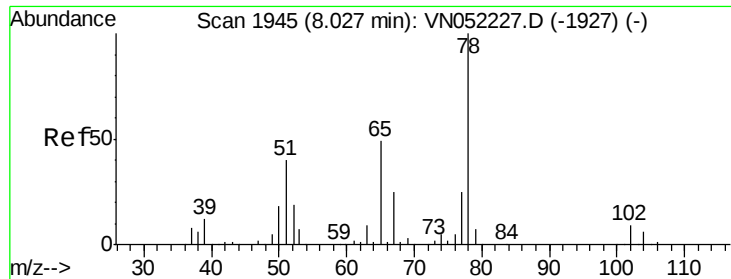
11/13/2018 2:54:29 PM



#32
1,1,1-Trichloroethane
Concen: 18.483 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	51.9	77.9
61	51.5	40.2	60.4





#33
 1,2-Dichloroethane-d4
 Concen: 18.483 ug/l
 RT: 8.02 min Scan# 1943
 Delta R.T. -0.01 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

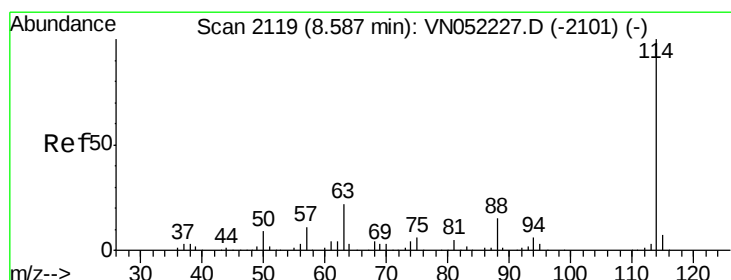
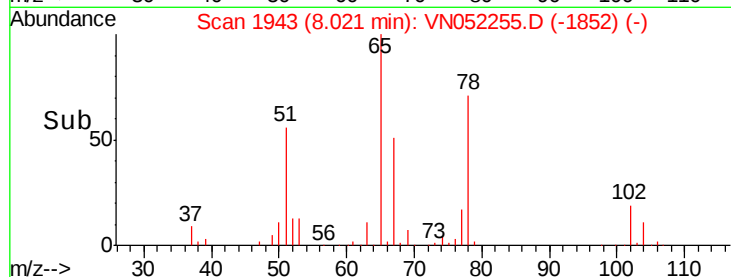
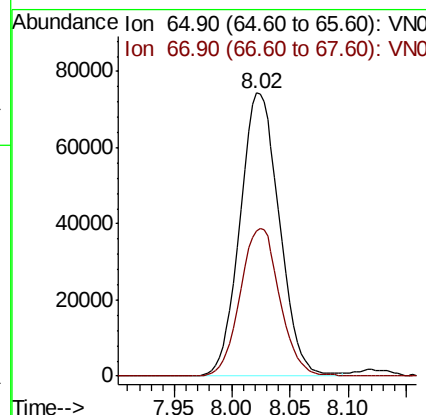
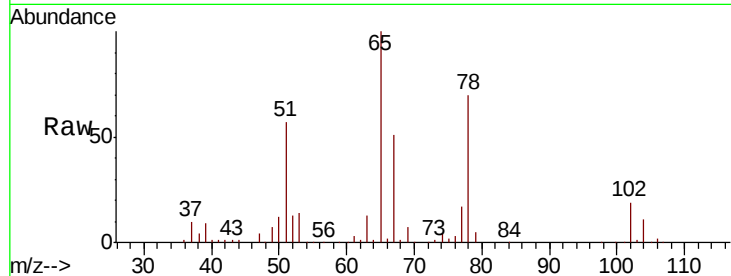
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	175614		
67	52.4	0.0	106.6	

Manual Integrations
 APPROVED

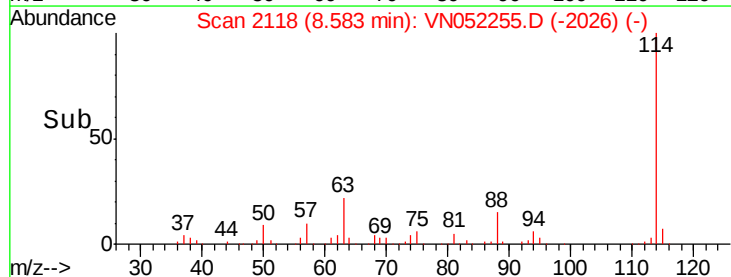
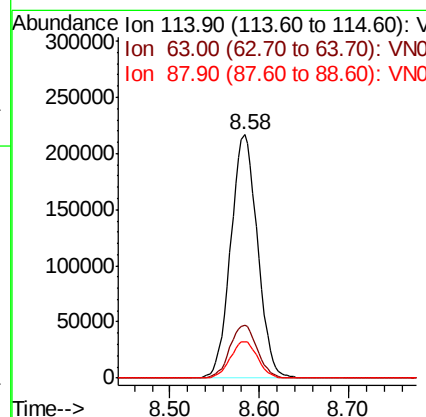
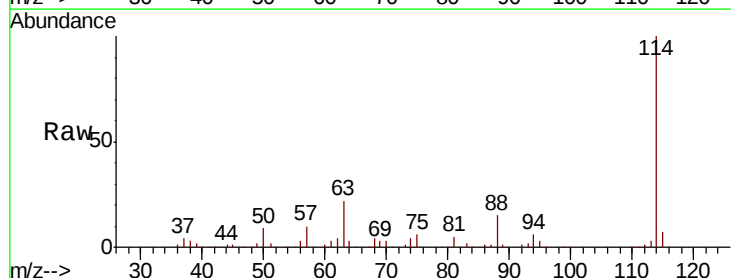
MMDadoda

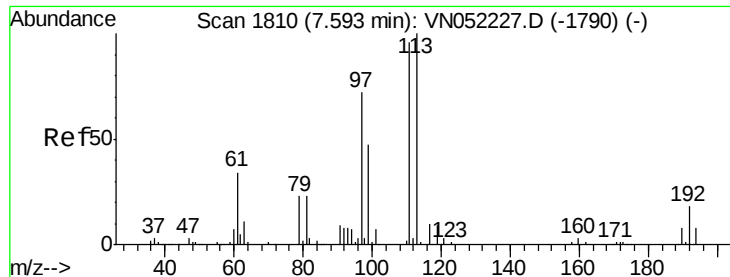
11/13/2018 2:54:29 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	449766		
63	22.0	0.0	43.4	
88	15.1	0.0	30.2	





#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1808
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

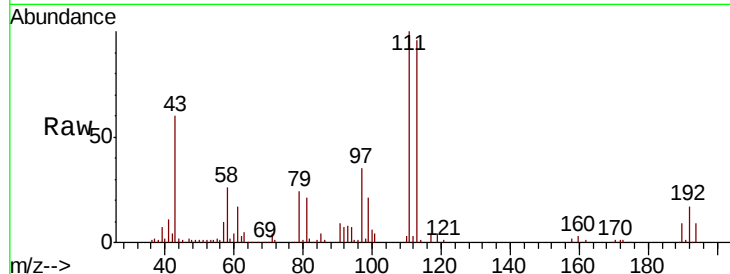
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	142377		
111	102.6	80.2	120.4	
192	17.8	14.1	21.1	

Manual Integrations
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MMDadoda

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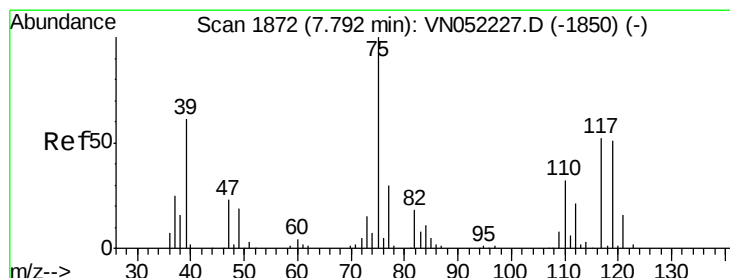
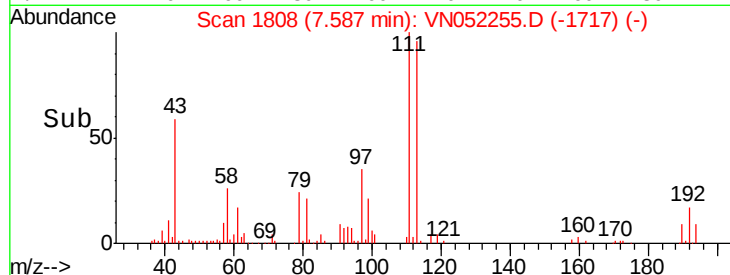
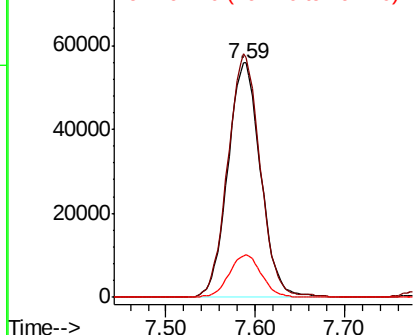


Abundance

Ion 112.80 (112.50 to 113.50): V

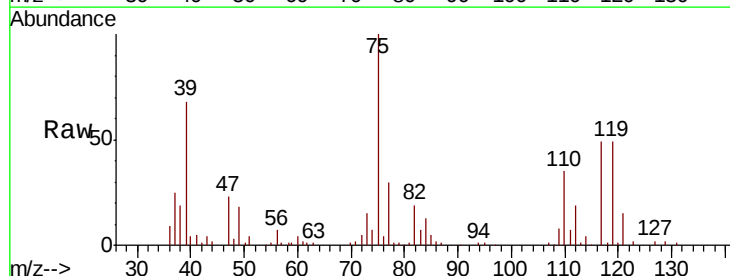
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
1,1-Dichloropropene
Concen: 18.398 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	83519		
110	34.1	16.4	49.4	
77	30.9	23.9	35.9	

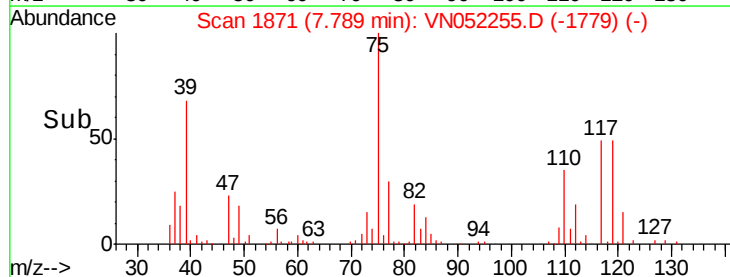
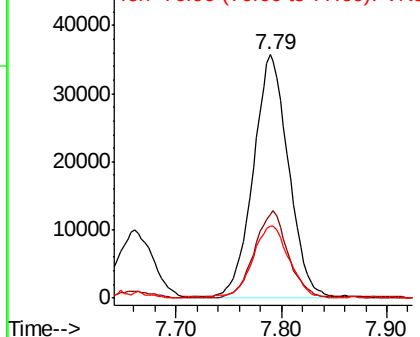


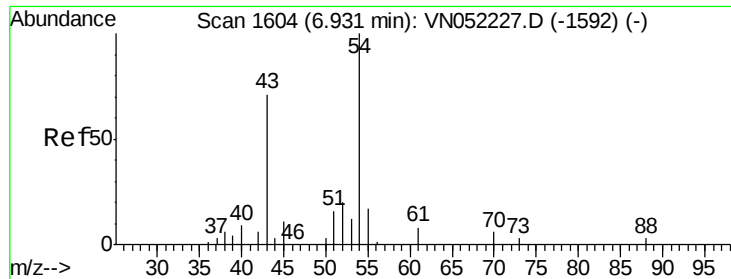
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#37
Ethyl Acetate
Concen: 15.647 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

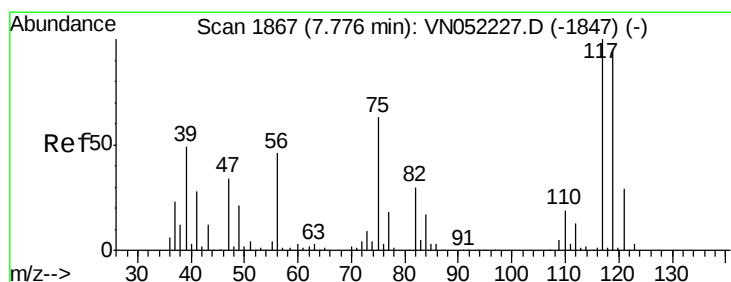
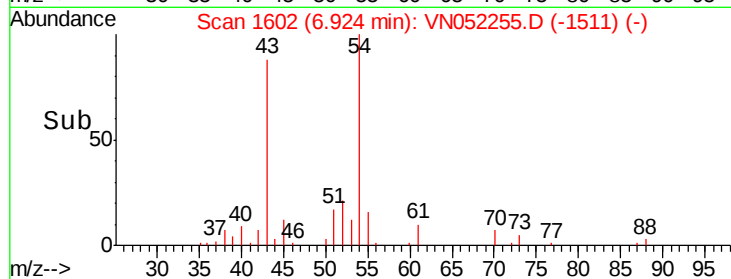
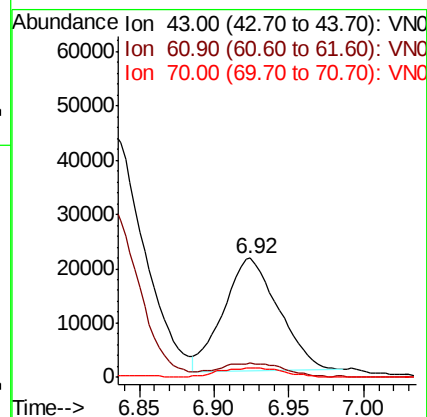
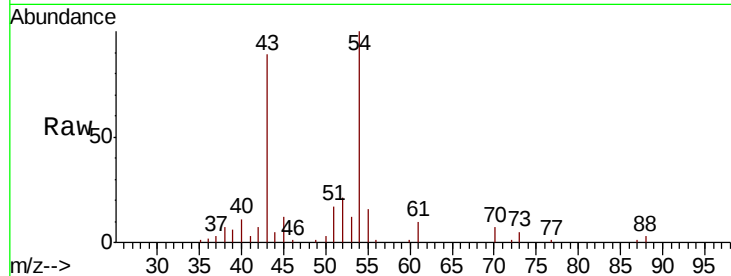
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion:	43	Resp:	53427
Ion	Ratio	Lower	Upper
43	100		
61	12.8	10.0	15.0
70	10.3	6.9	10.3

Manual Integrations
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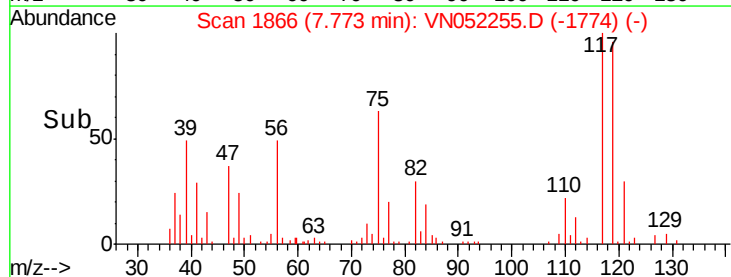
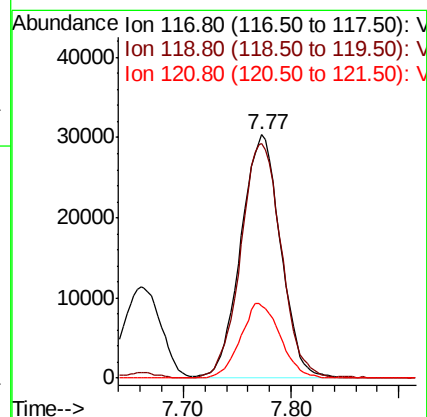
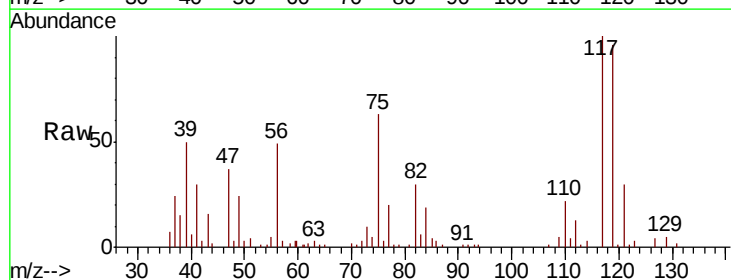
MMDadoda

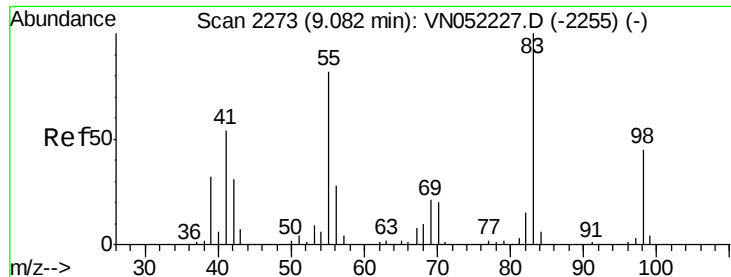
11/13/2018 2:54:29 PM



#38
Carbon Tetrachloride
Concen: 18.950 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion:	117	Resp:	77961
Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.8	113.8
121	29.8	23.4	35.2





#39
Methvlcvclohexane
Concen: 18.909 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

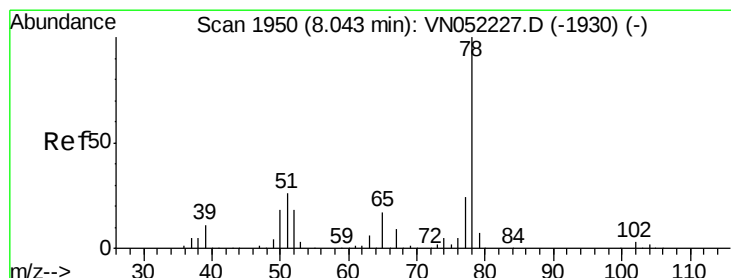
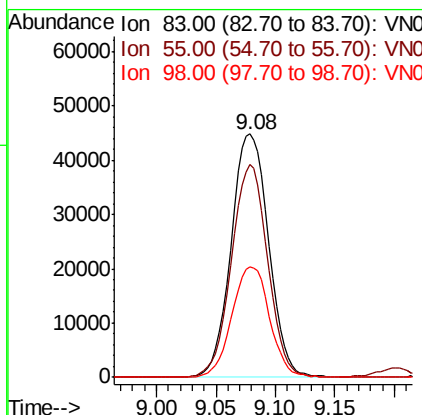
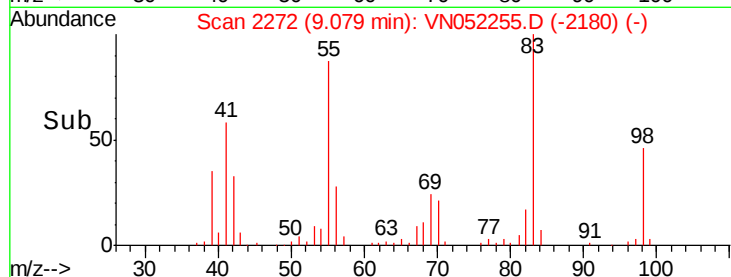
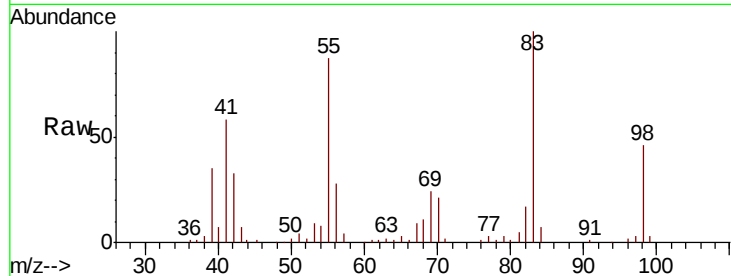
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	83.00	Resp	97913
Ion	Ratio	Lower	Upper
83	100		
55	87.3	65.2	97.8
98	45.6	36.3	54.5

Manual Integrations
APPROVED

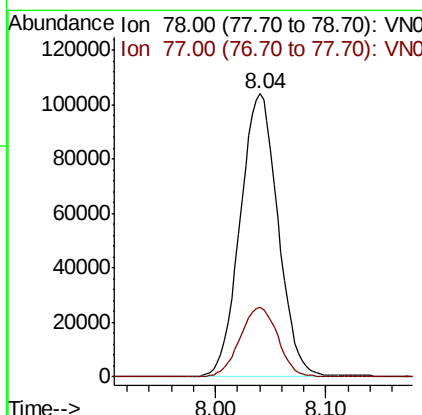
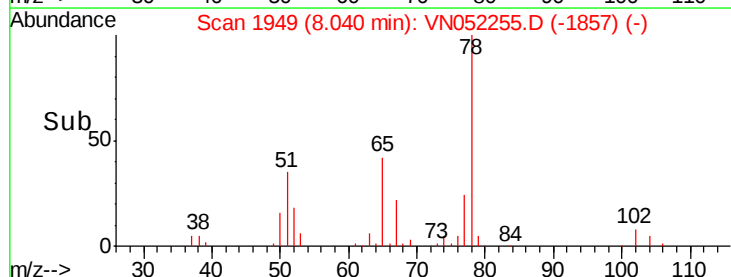
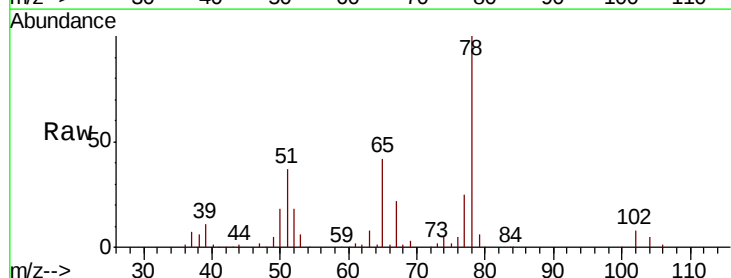
MMDadoda

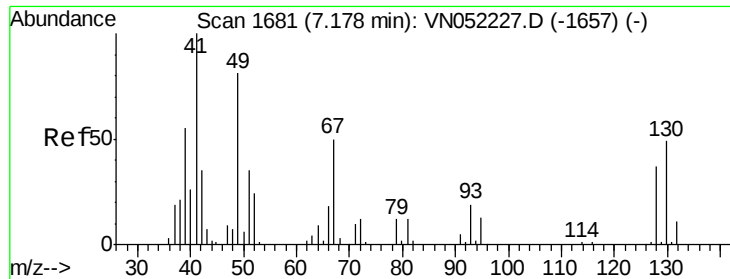
11/13/2018 2:54:29 PM



#40
Benzene
Concen: 19.048 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	78.00	Resp	247577
Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.2	28.8





#41
Methacrylonitrile
Concen: 14.732 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

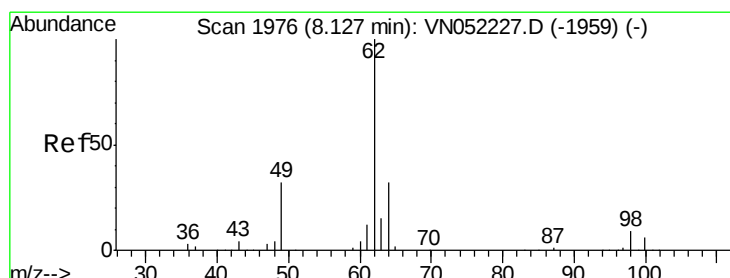
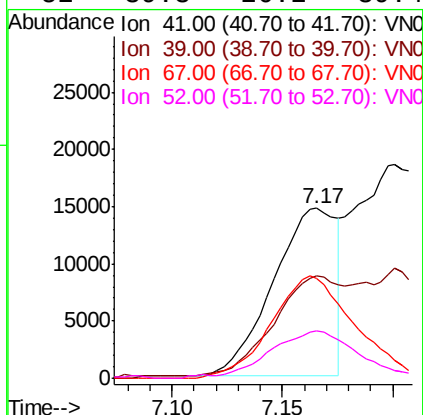
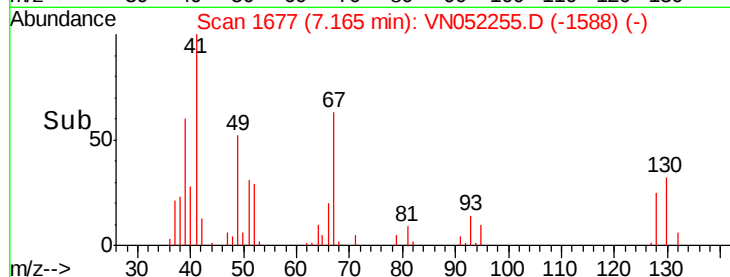
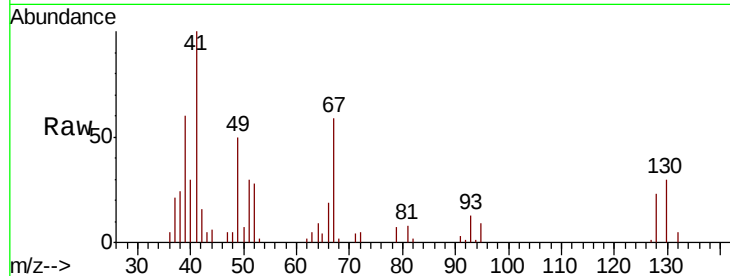
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion:	41	Resp:	29229
Ion	Ratio	Lower	Upper
41	100		
39	63.1	47.8	71.6
67	80.2	54.3	81.5
52	39.3	26.2	39.4

Manual Integrations
APPROVED

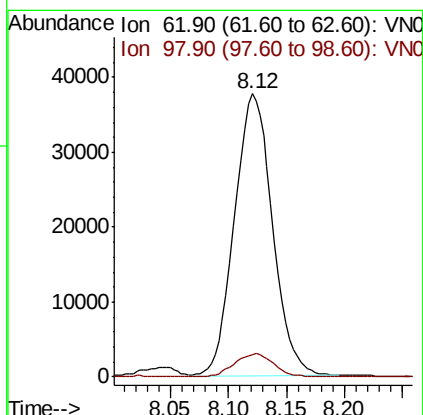
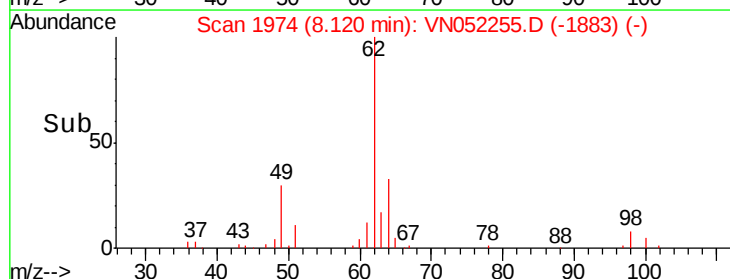
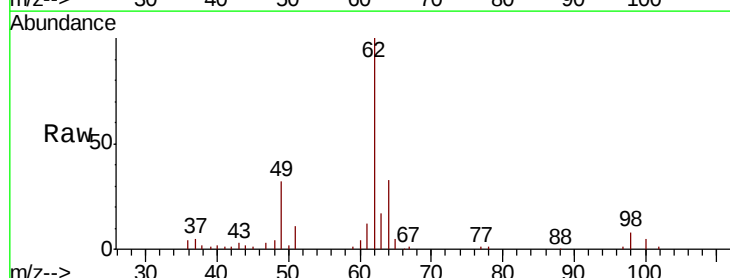
MMDadoda

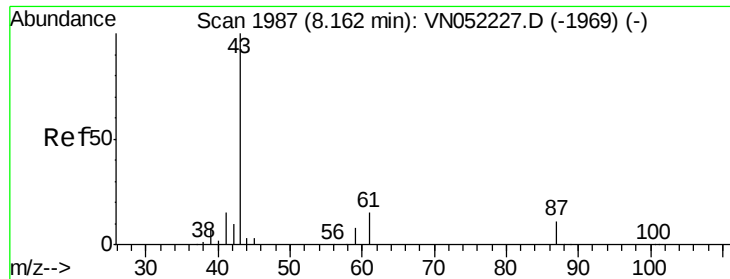
11/13/2018 2:54:29 PM



#42
1,2-Dichloroethane
Concen: 18.799 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.01 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion:	62	Resp:	85732
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	16.4





#43

Isopropyl Acetate

Concen: 17.954 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

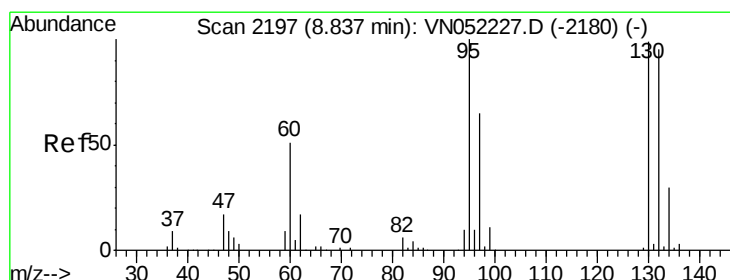
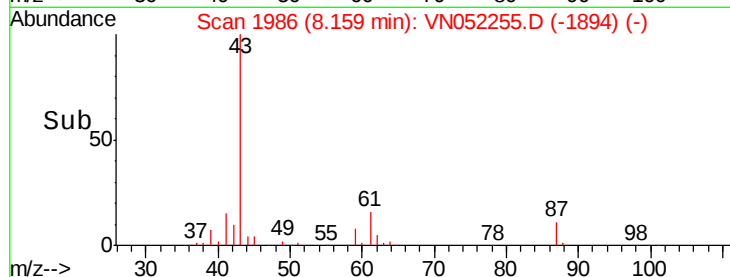
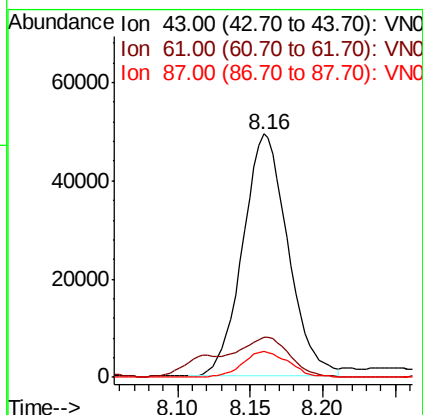
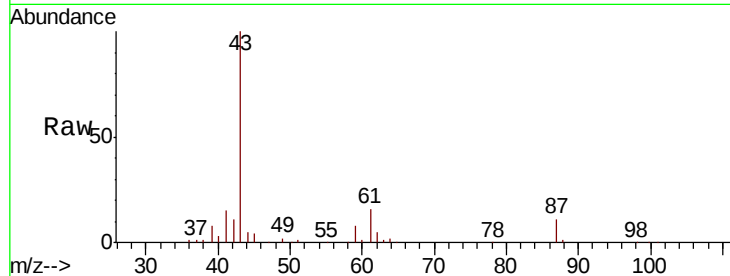
VN1112WBSD01

Tot Ion:	43	Resp:	106852
Ion	Ratio	Lower	Upper
43	100		
61	16.4	14.2	21.4
87	11.0	8.4	12.6

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#44

Trichloroethene

Concen: 18.901 ug/l

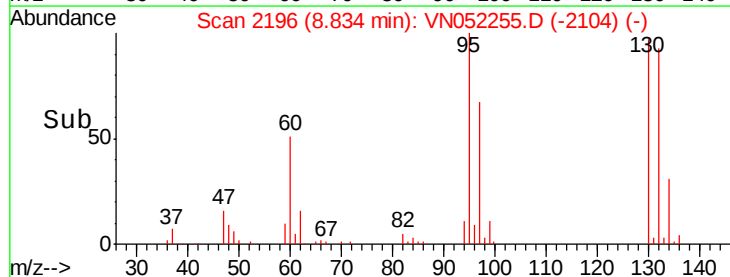
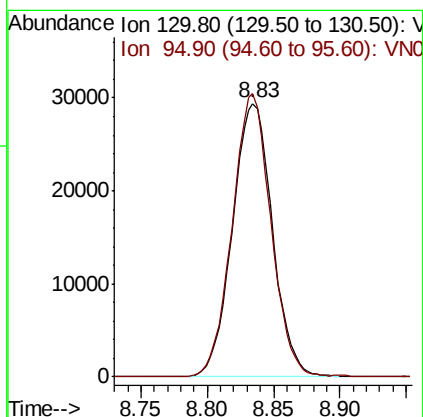
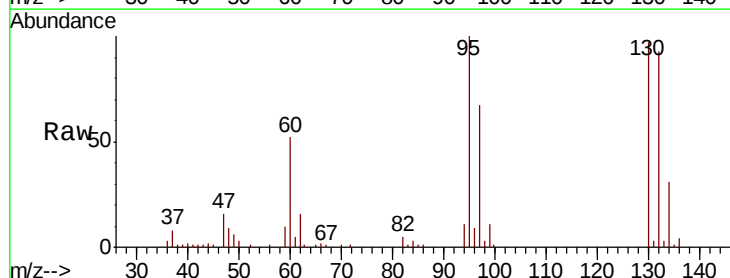
RT: 8.83 min Scan# 2196

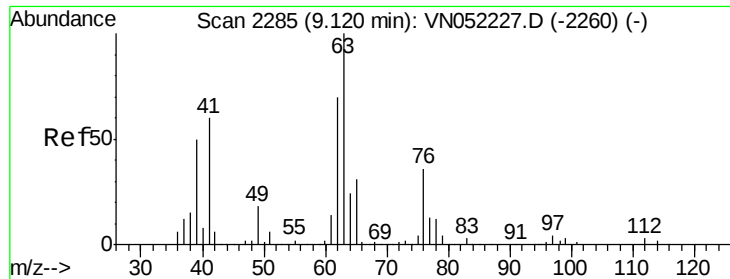
Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Tgt Ion:	130	Resp:	61561
Ion	Ratio	Lower	Upper
130	100		
95	103.5	0.0	201.6





#45
 1,2-Dichloropropane
 Concen: 19.376 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

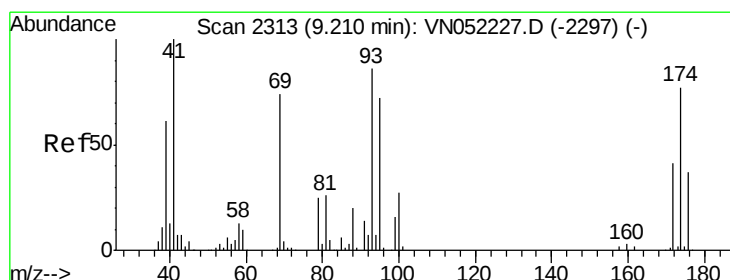
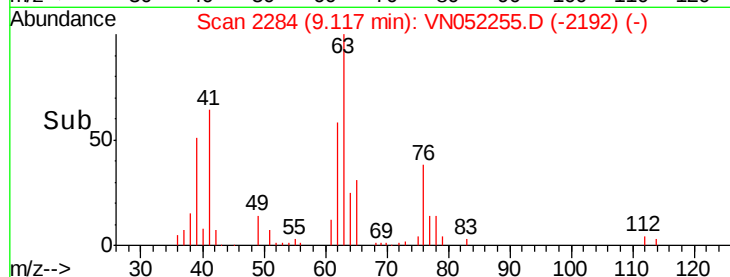
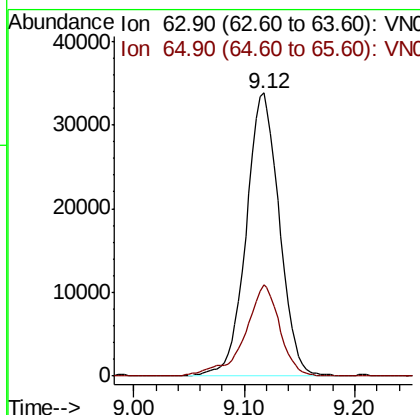
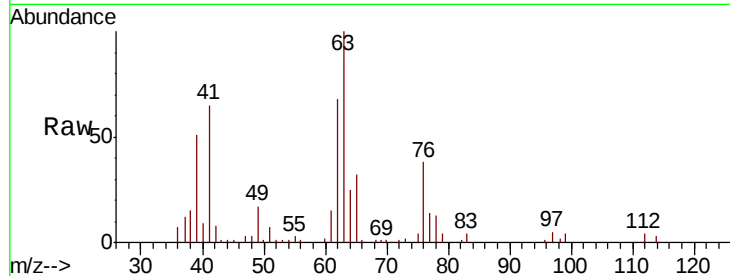
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.2	24.8	37.2

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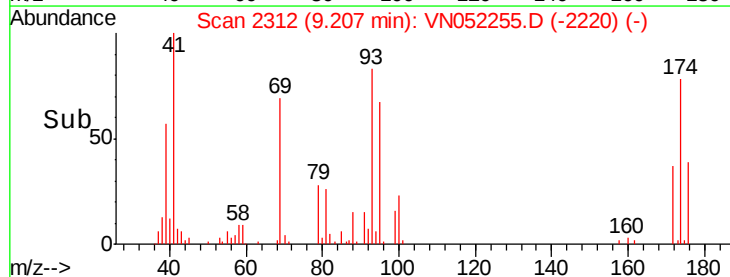
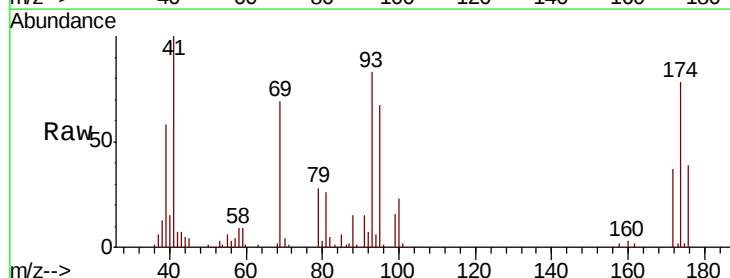
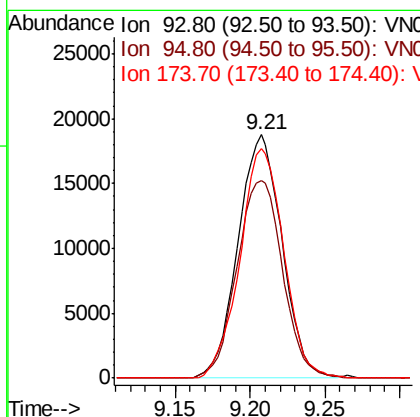
MMDadoda

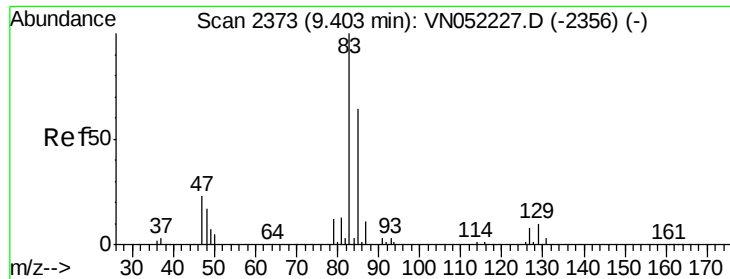
11/13/2018 2:54:29 PM



#46
 Dibromomethane
 Concen: 18.419 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.3	67.0	100.4
174	93.8	72.1	108.1





#47
Bromodichloromethane
Concen: 22.543 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

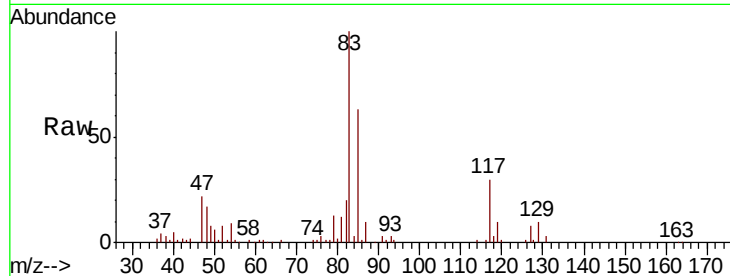
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.2	76.8
127	7.7	6.2	9.4

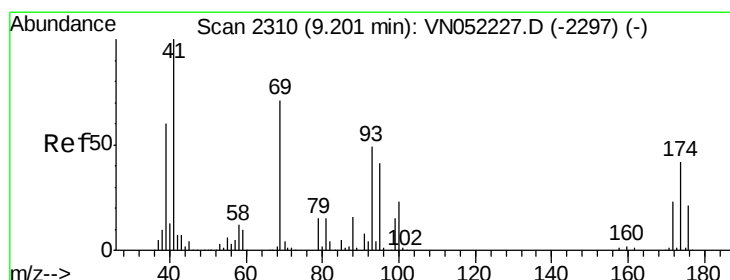
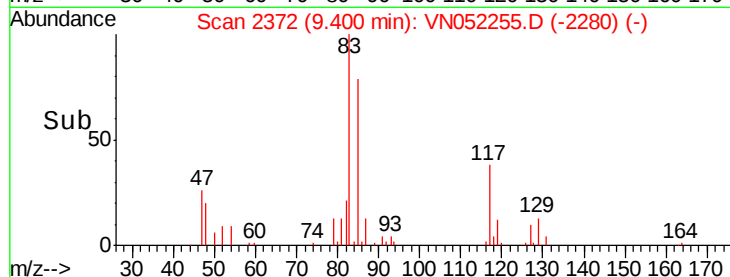
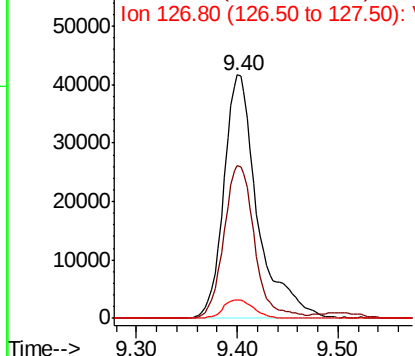
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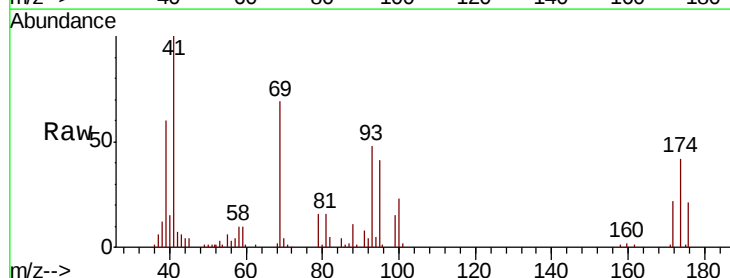


Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

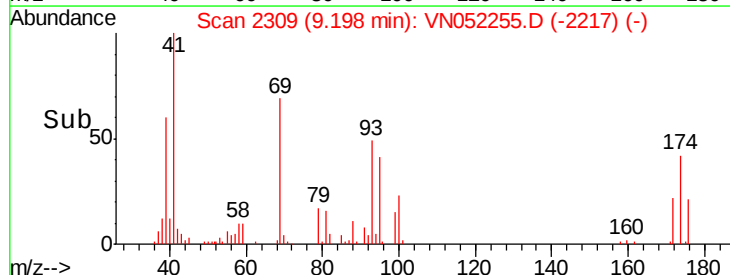
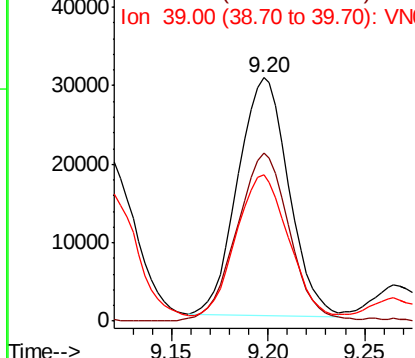


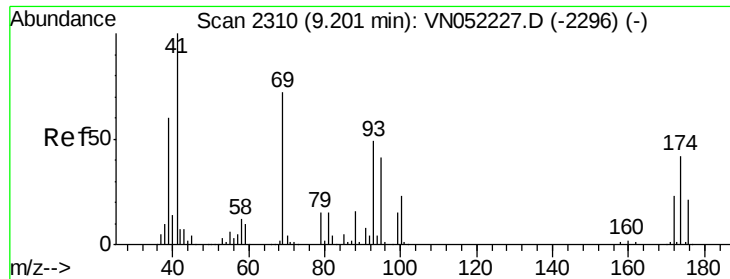
#48
Methyl methacrylate
Concen: 17.646 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
41	100		
69	73.1	58.8	88.2
39	64.3	50.7	76.1



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#49
1,4-Dioxane
Concen: 309.062 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

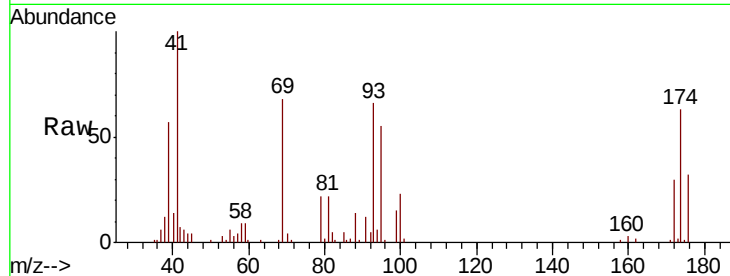
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	44.4	32.5	48.7
58	76.7	58.2	87.4

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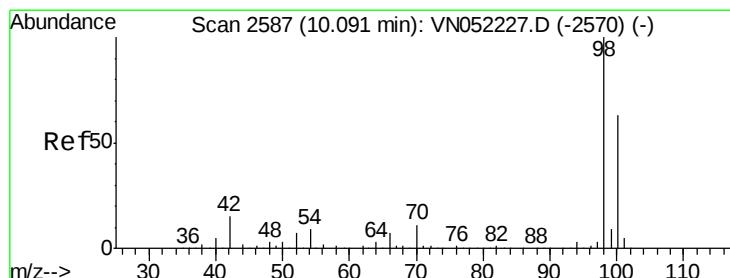
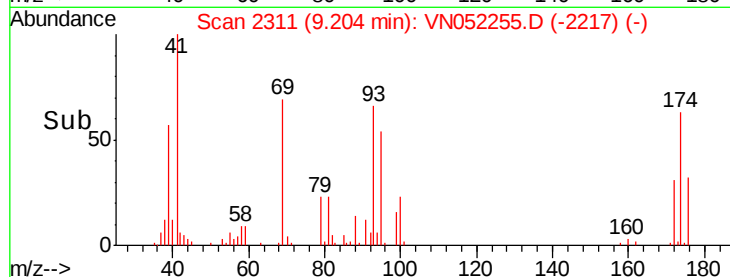
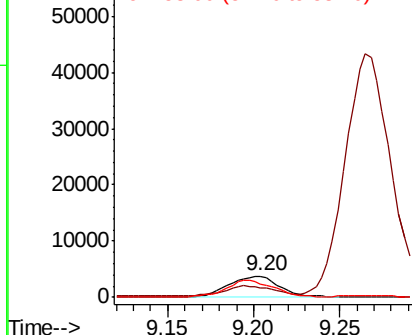


Abundance

Ion 88.00 (87.70 to 88.70): VN052227.D (-2296) (-)

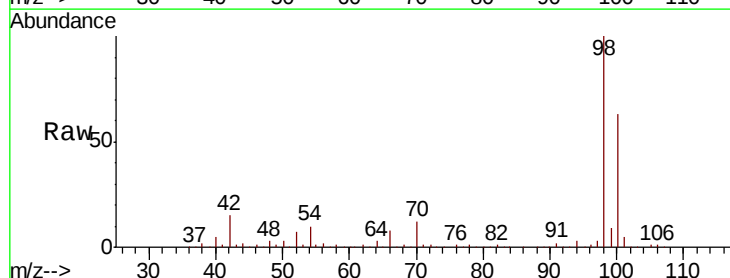
Ion 43.00 (42.70 to 43.70): VN052227.D (-2296) (-)

Ion 58.00 (57.70 to 58.70): VN052227.D (-2296) (-)



#50
Toluene-d8
Concen: 309.062 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

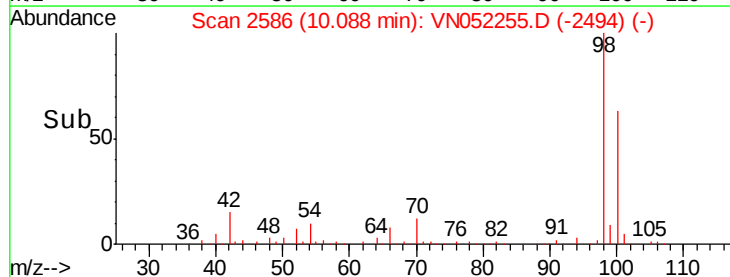
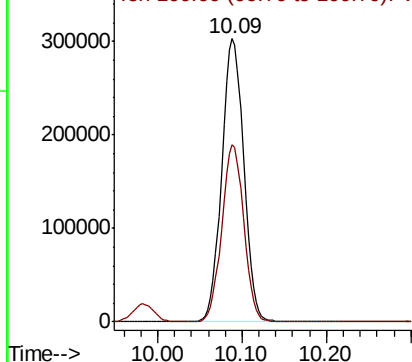
Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.0	50.2	75.2

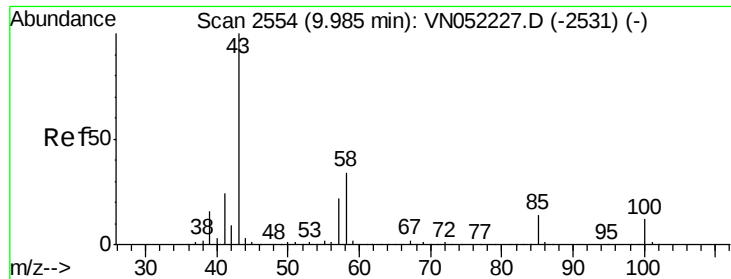


Abundance

Ion 98.00 (97.70 to 98.70): VN052227.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052227.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 90.801 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampled :

VN1112WBSD01

Tot Ion: 43 Resp: 298442

Ion Ratio Lower Upper

43 100

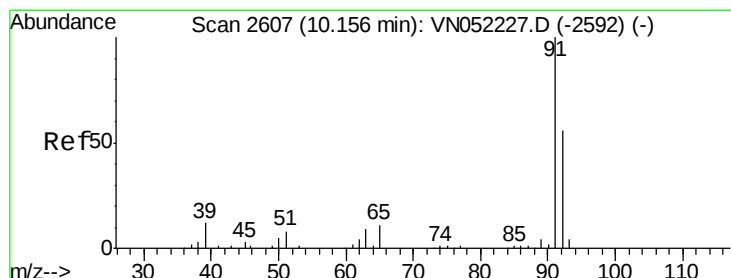
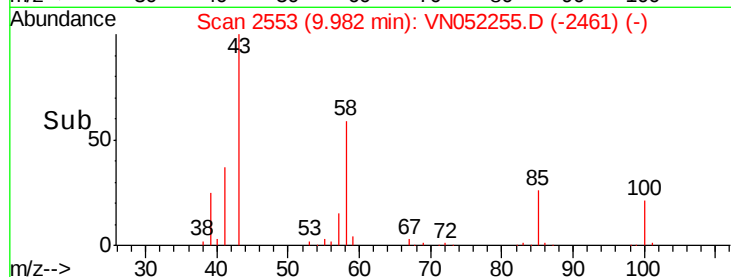
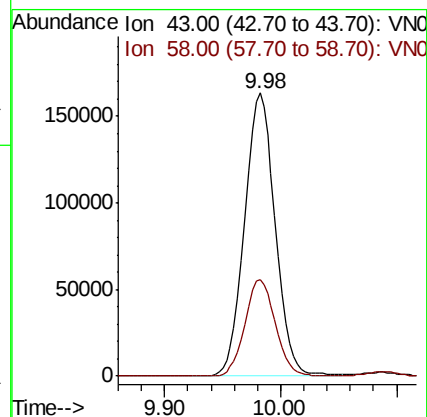
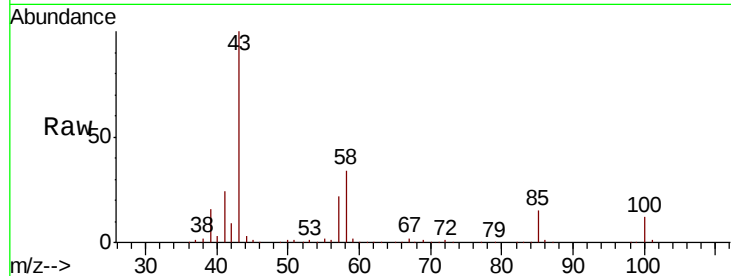
58 34.2 27.4 41.0

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#52

Toluene

Concen: 23.717 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN052255.D

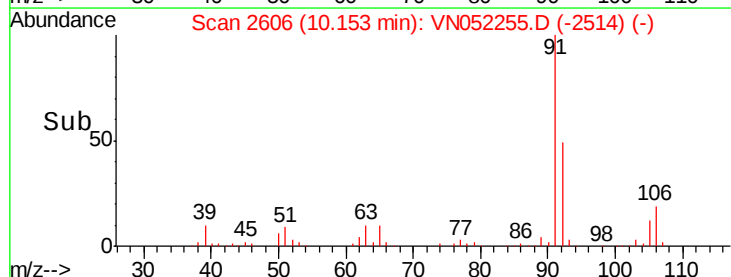
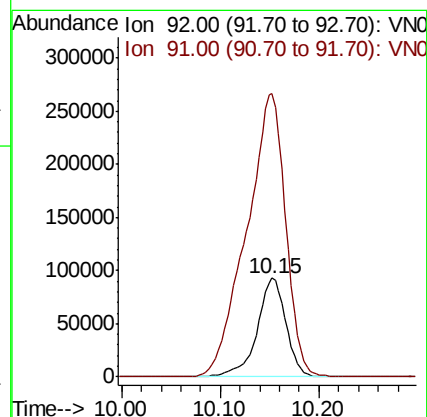
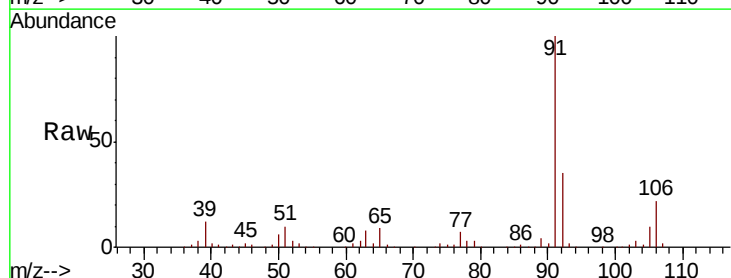
Acq: 12 Nov 2018 12:05

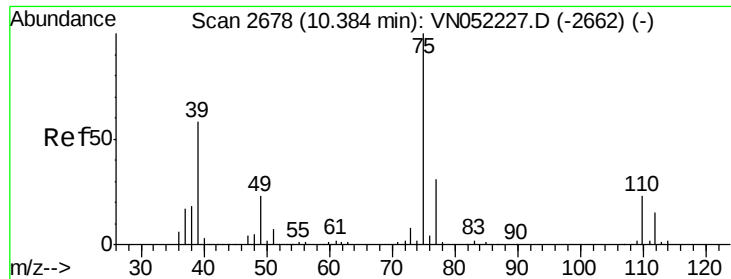
Tgt Ion: 92 Resp: 185958

Ion Ratio Lower Upper

92 100

91 391.6 142.5 213.7#





#53
t-1,3-Dichloropropene
Concen: 19.090 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

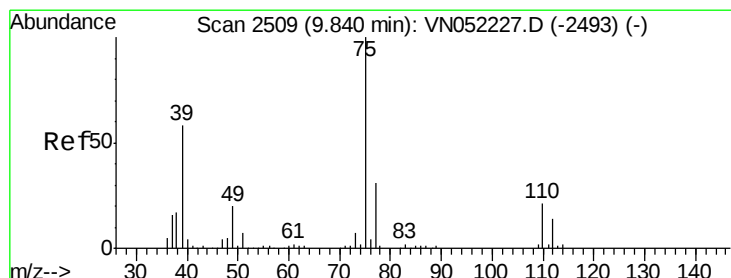
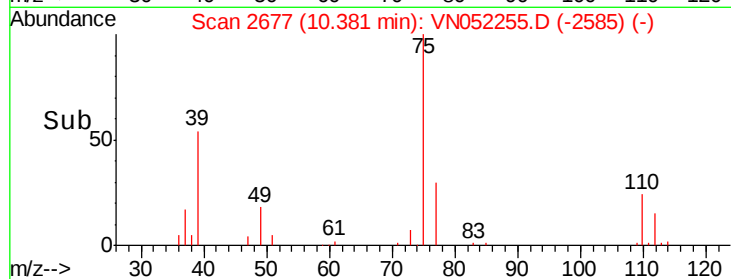
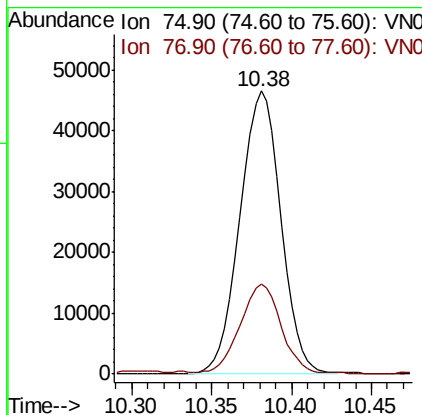
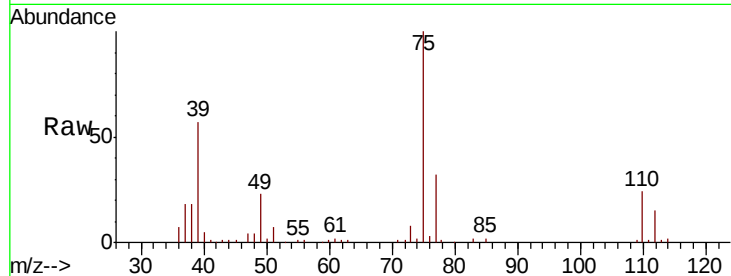
Instrument :
MSVOA_N
ClientSampled :
VN1112WBSD01

Tot Ion: 75 Resp: 81408
Ion Ratio Lower Upper
75 100
77 31.2 24.6 36.8

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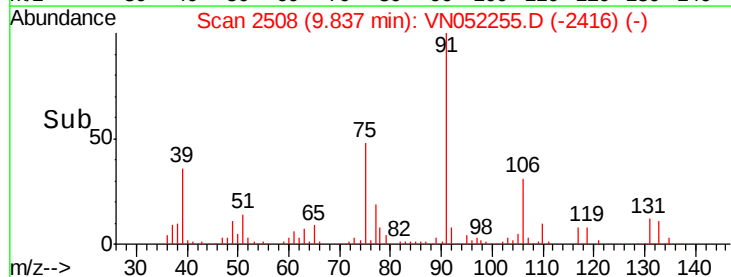
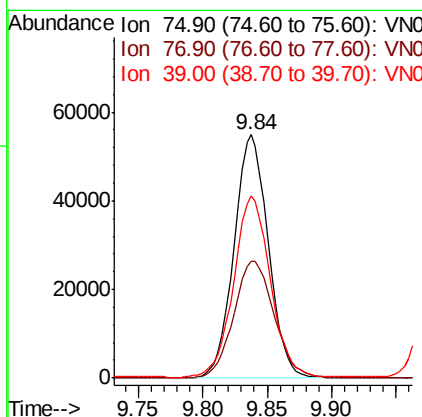
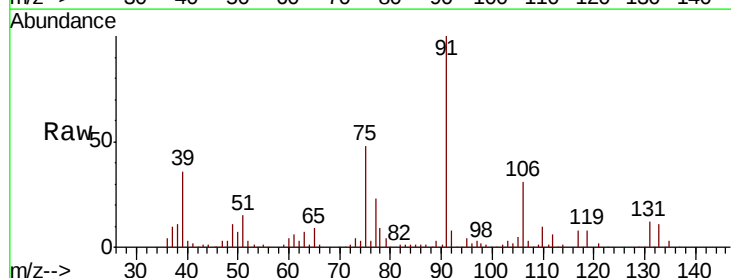
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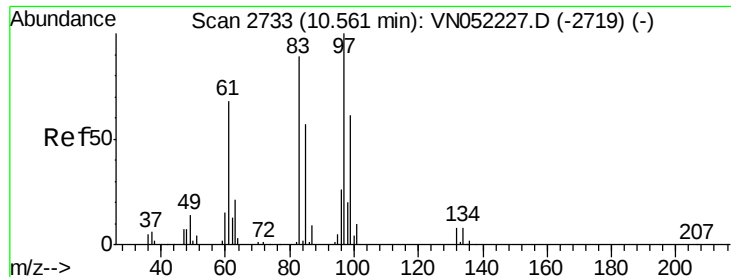
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#54
cis-1,3-Dichloropropene
Concen: 20.158 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion: 75 Resp: 101477
Ion Ratio Lower Upper
75 100
77 48.2 25.2 37.8#
39 74.0 46.6 70.0#





#55
1,1,2-Trichloroethane
Concen: 18.433 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

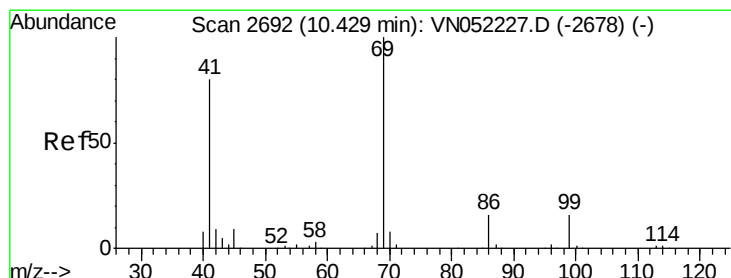
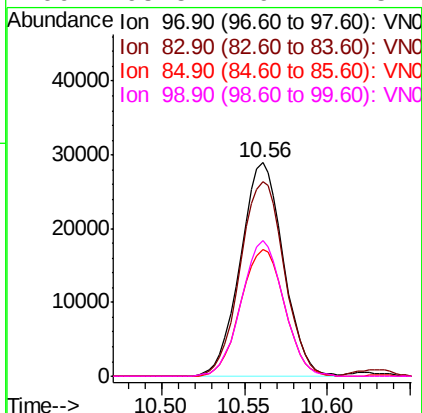
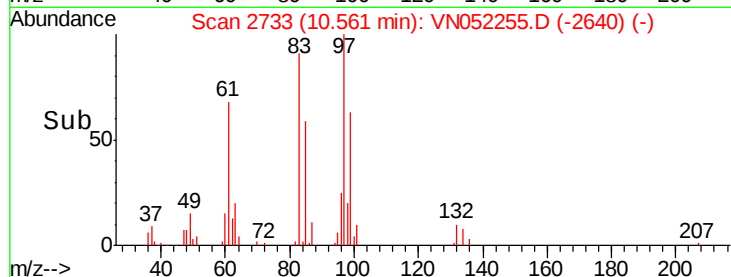
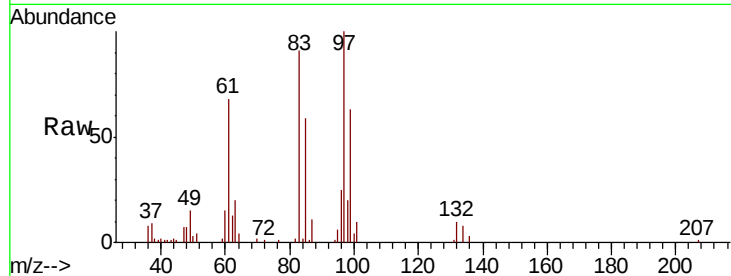
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion:	97	Resp:	52237
Ion	Ratio	Lower	Upper
97	100		
83	91.1	71.2	106.8
85	59.2	45.6	68.4
99	63.5	49.1	73.7

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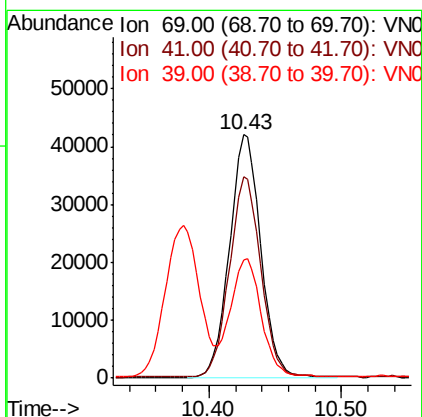
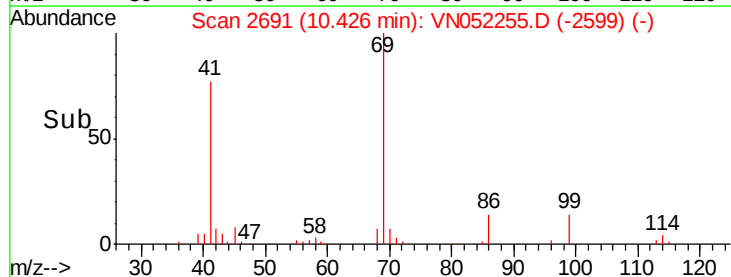
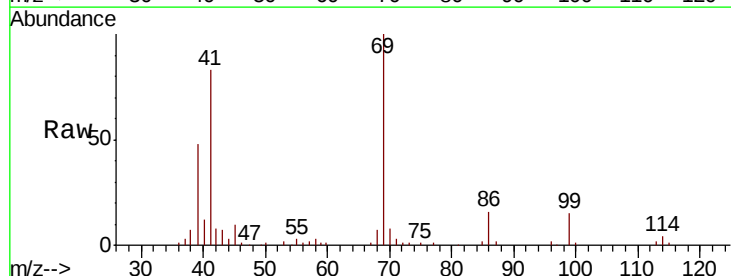
MMDadoda

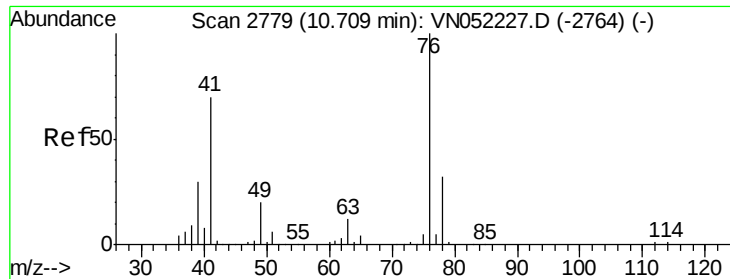
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#56
Ethyl methacrylate
Concen: 18.076 ug/l
RT: 10.43 min Scan# 2691
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion:	69	Resp:	69232
Ion	Ratio	Lower	Upper
69	100		
41	81.4	64.0	96.0
39	46.8	37.8	56.8





#57
 1,3-Dichloropropane
 Concen: 18.975 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

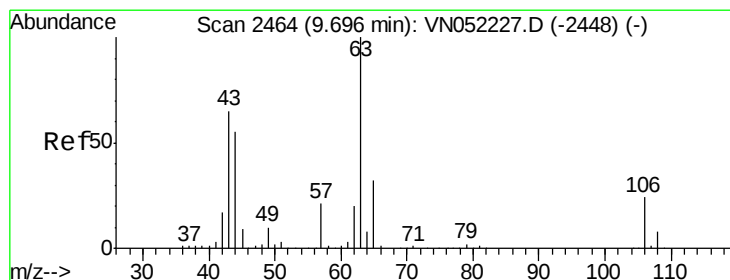
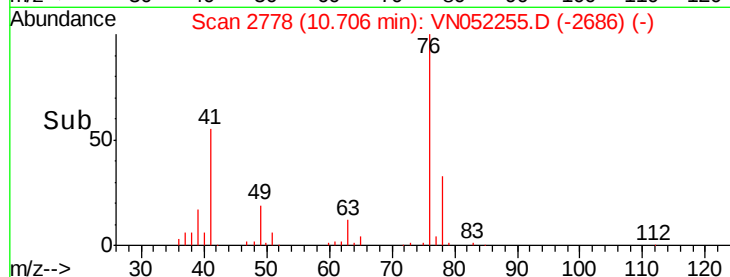
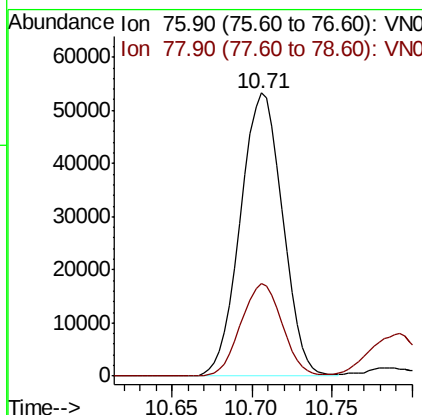
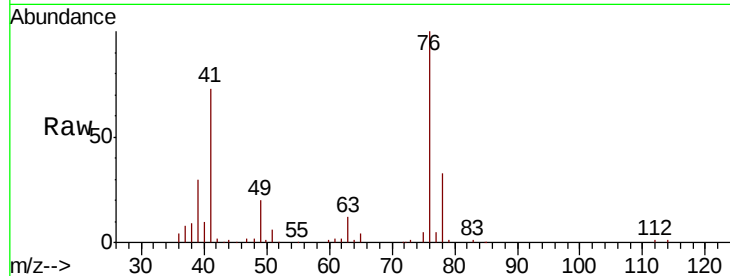
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBSD01

Tot Ion: 76 Resp: 96263
 Ion Ratio Lower Upper
 76 100
 78 31.9 25.7 38.5

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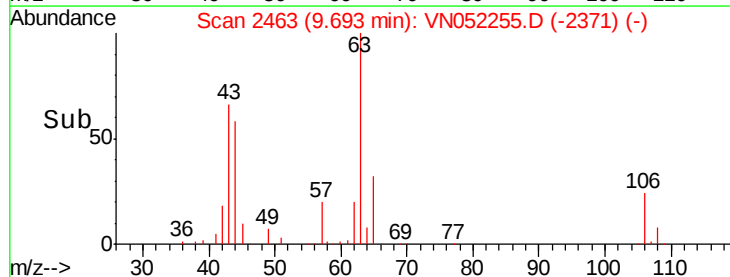
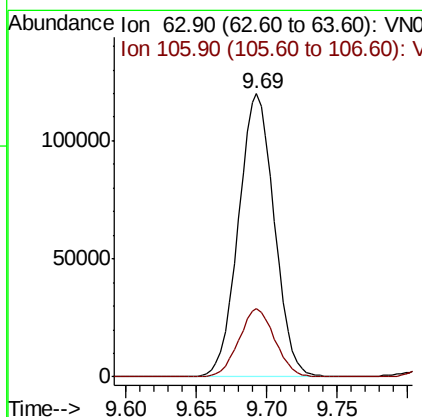
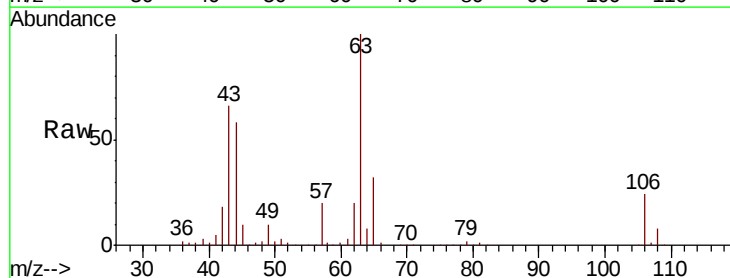
MMDadoda

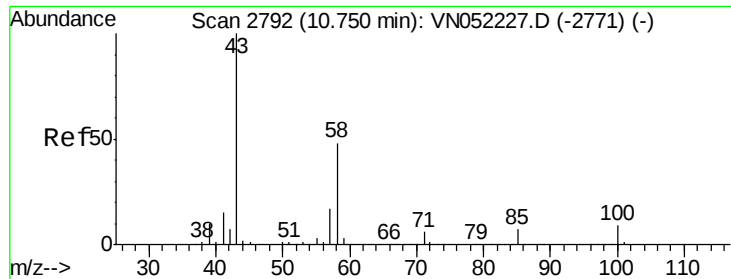
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#58
 2-Chloroethyl Vinyl ether
 Concen: 100.567 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

Tgt Ion: 63 Resp: 213282
 Ion Ratio Lower Upper
 63 100
 106 24.2 19.5 29.3





#59
2-Hexanone
Concen: 86.756 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

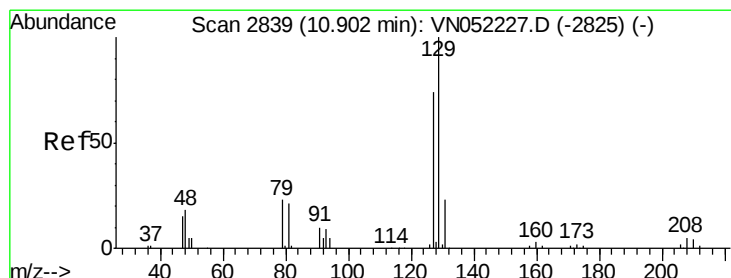
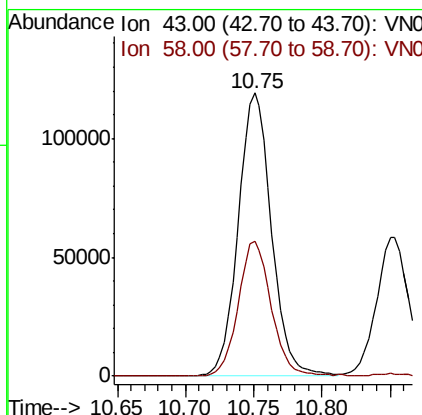
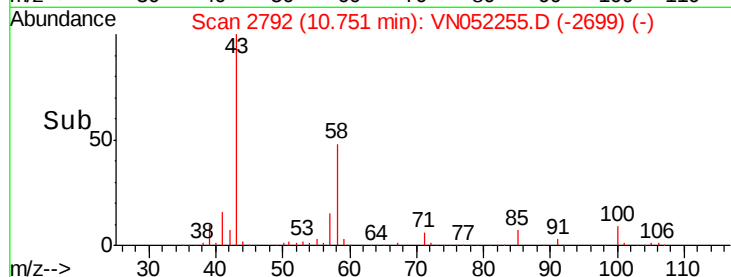
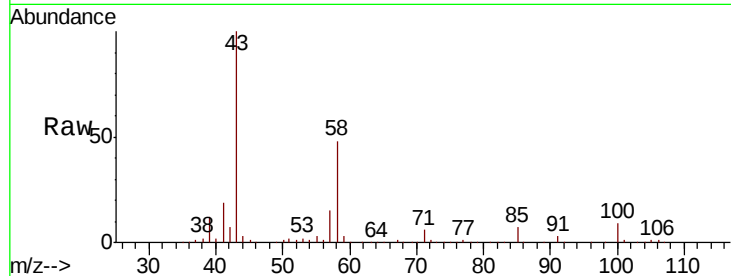
Instrument :
MSVOA_N
ClientSampled :
VN1112WBSD01

Tot Ion: 43 Resp: 200172
Ion Ratio Lower Upper
43 100
58 47.5 24.1 72.3

Manual Integrations
APPROVED

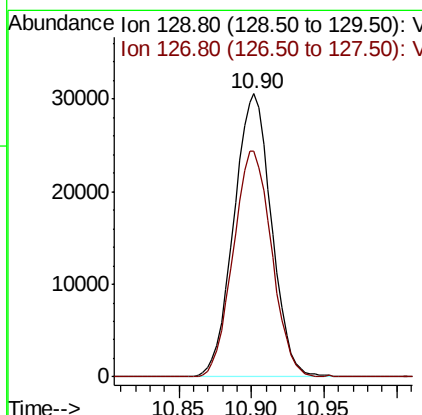
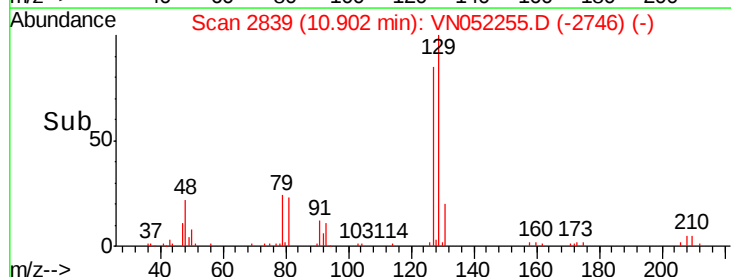
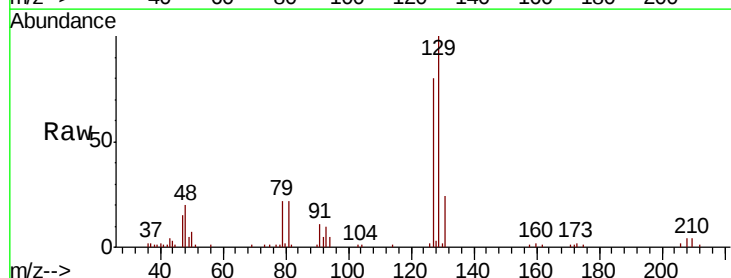
MMDadoda

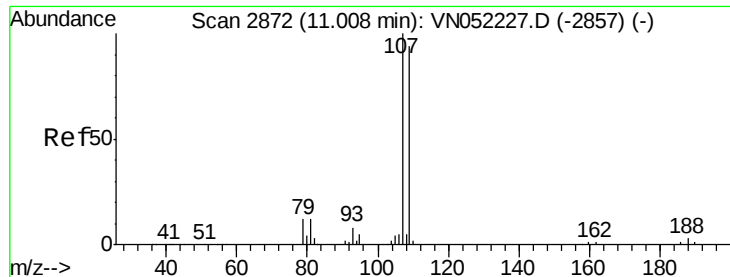
11/13/2018 2:54:29 PM



#60
Dibromochloromethane
Concen: 19.162 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion: 129 Resp: 55082
Ion Ratio Lower Upper
129 100
127 81.4 38.0 114.1





#61

1,2-Dibromoethane

Concen: 18.906 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion:107 Resp: 52658

Ion Ratio Lower Upper

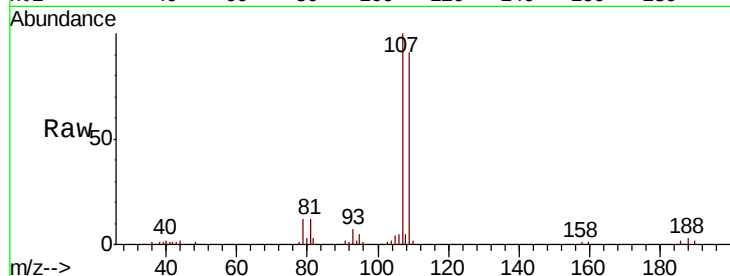
107 100

109 93.7 75.8 113.6

Manual Integrations
APPROVED

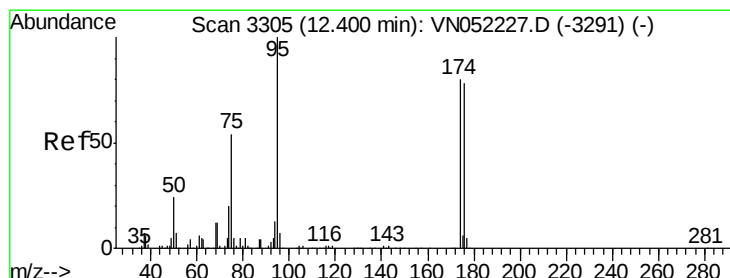
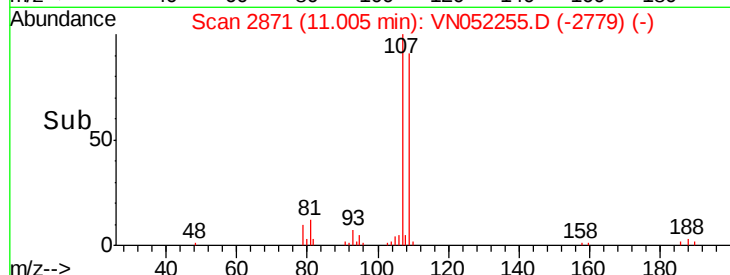
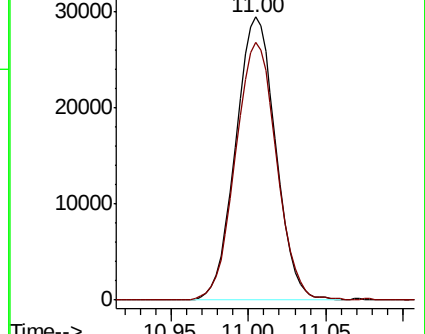
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 18.906 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

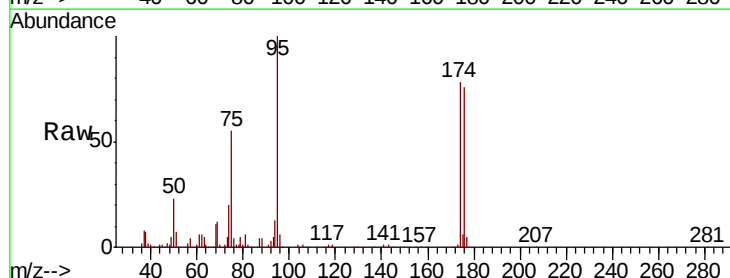
Tgt Ion: 95 Resp: 180186

Ion Ratio Lower Upper

95 100

174 77.4 0.0 159.4

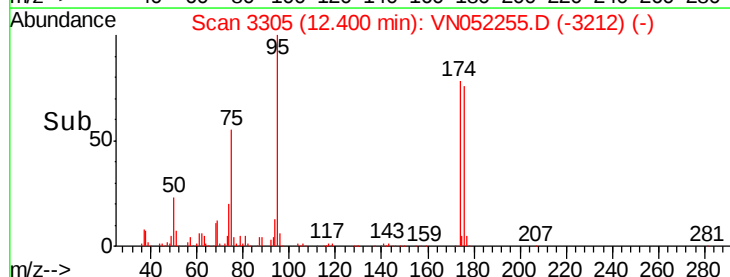
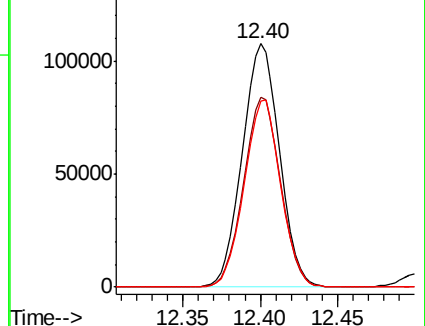
176 75.4 0.0 157.8

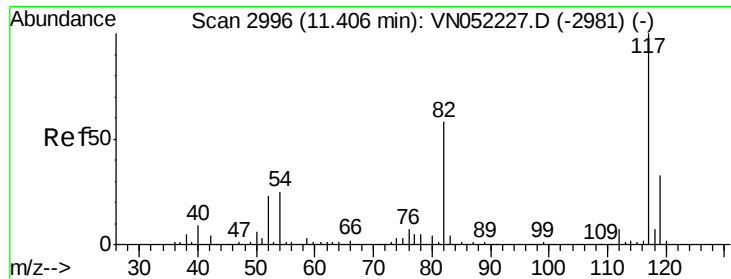


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

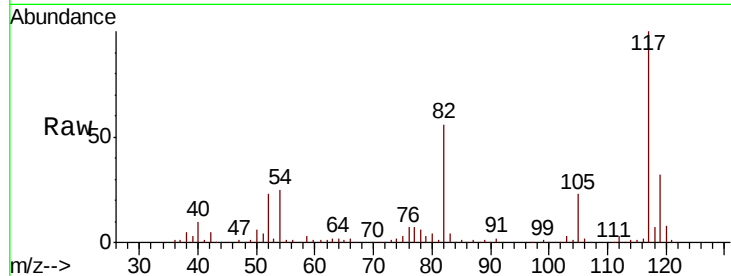
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.1	46.2	69.2
119	31.6	26.2	39.4

Manual Integrations
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MMDadoda

11/13/2018 2:54:29 PM

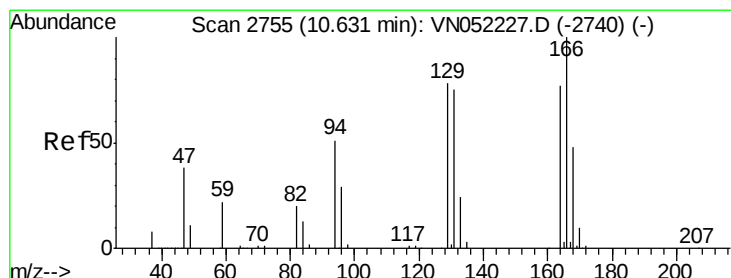
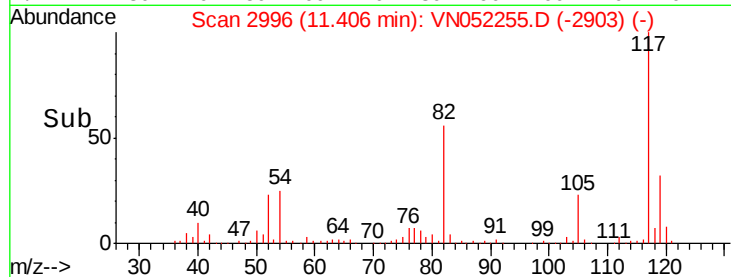
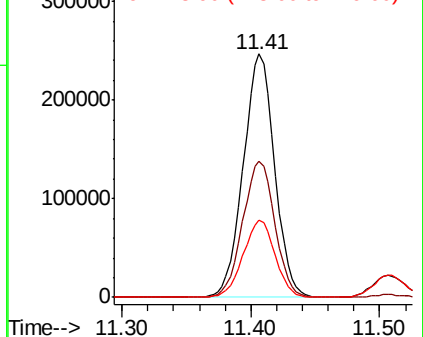


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 18.595 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.3	103.6	155.4
129	97.5	81.0	121.6
131	91.9	77.9	116.9

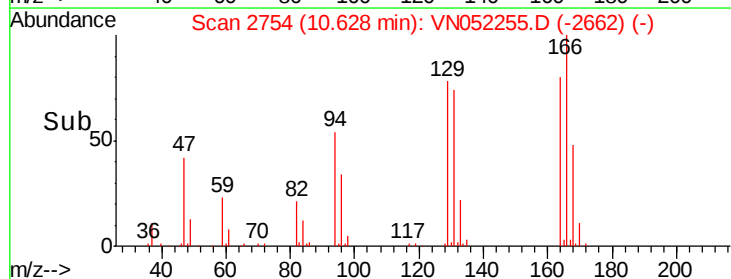
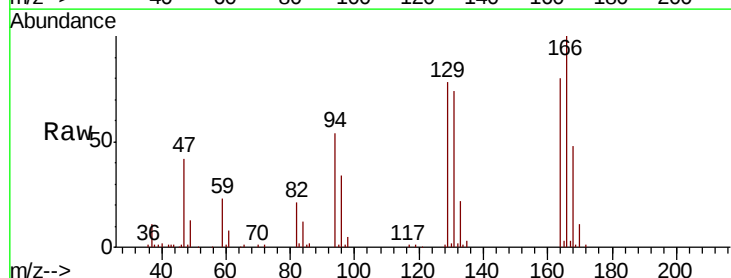
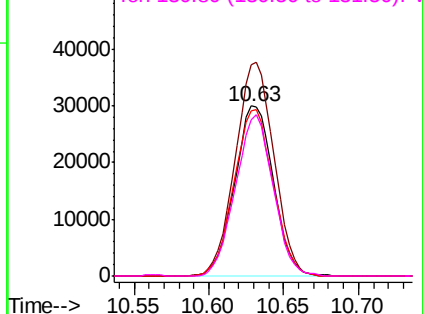
Abundance

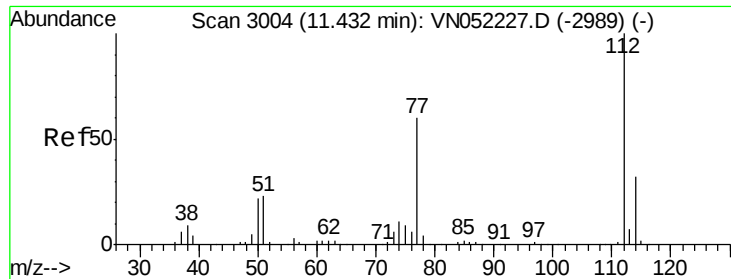
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 18.562 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampled :

VN1112WBSD01

Tot Ion:112 Resp: 164320

Ion Ratio Lower Upper

112 100

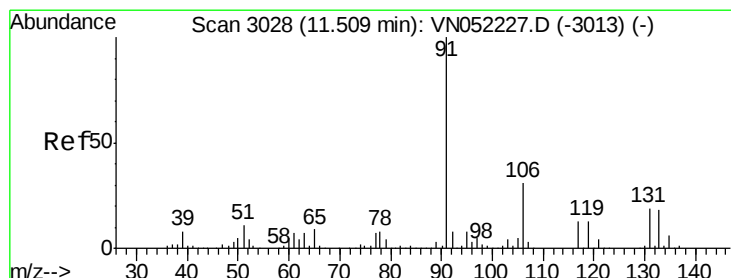
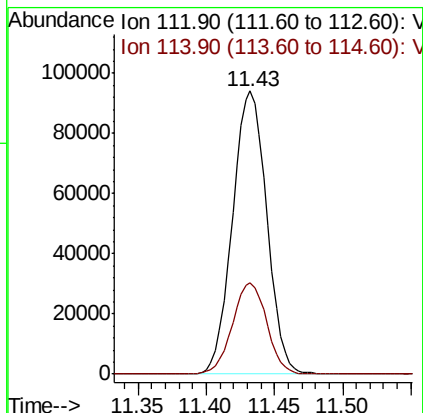
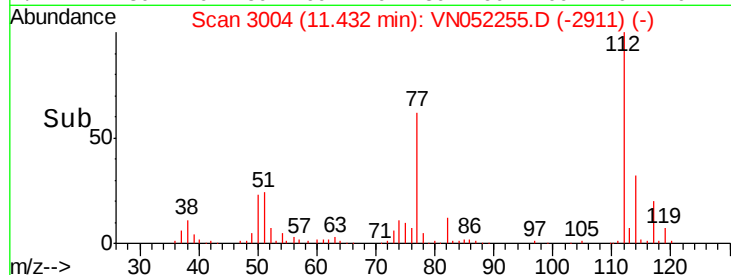
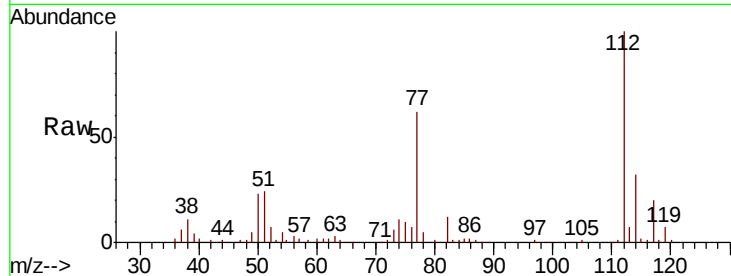
114 32.3 25.7 38.5

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 18.563 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

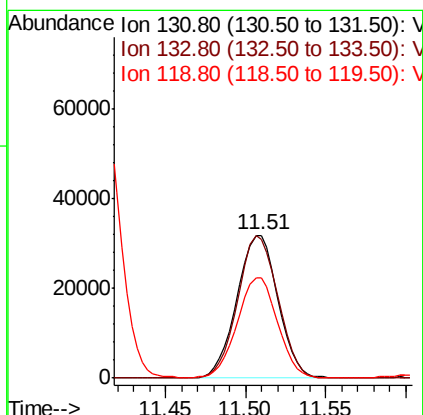
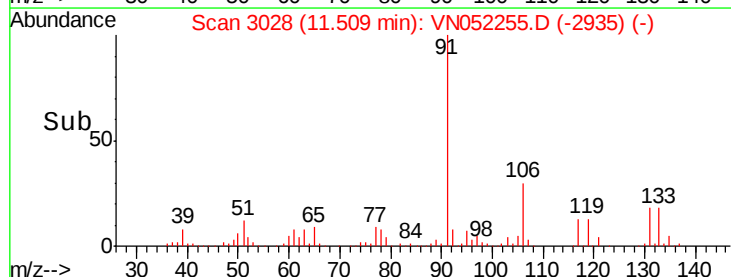
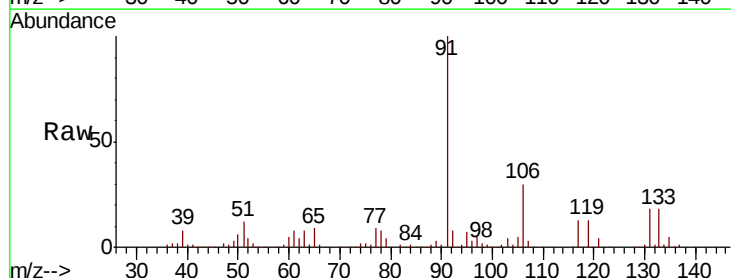
Tgt Ion:131 Resp: 55665

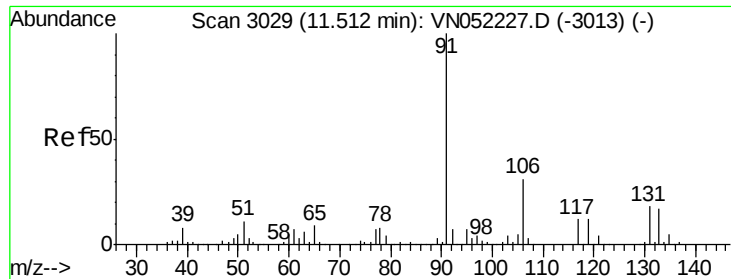
Ion Ratio Lower Upper

131 100

133 97.5 48.3 144.9

119 69.0 34.6 103.9





#67
Ethyl Benzene
Concen: 18.910 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

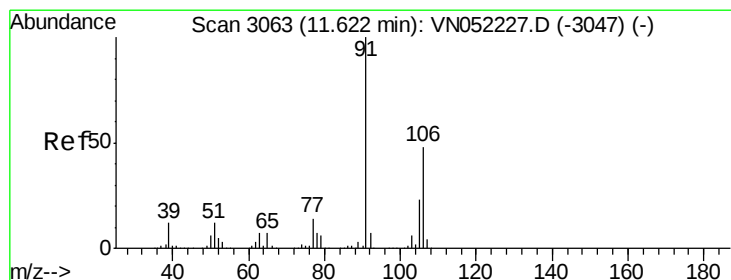
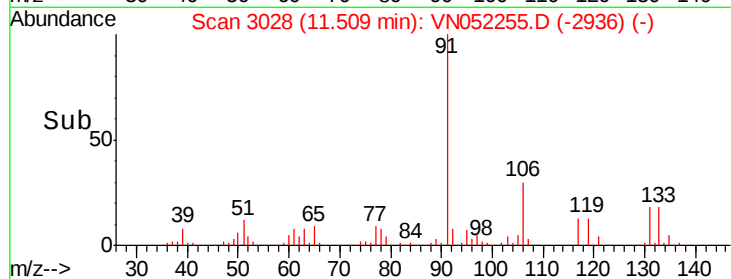
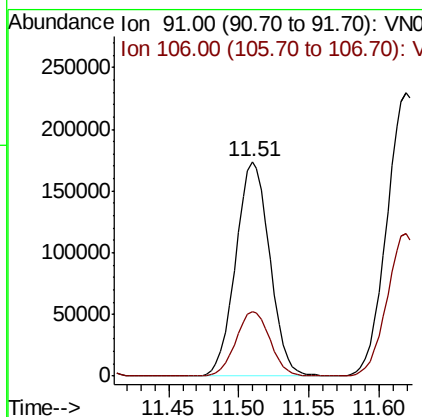
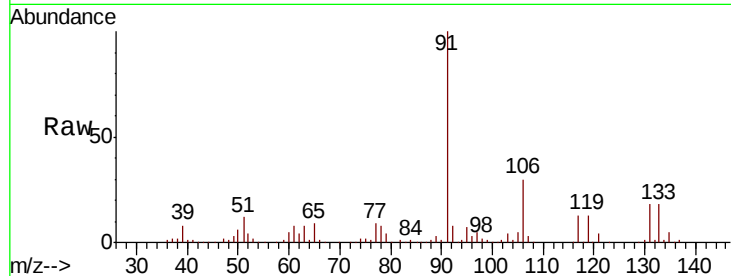
Instrument :
MSVOA_N
ClientSampled :
VN1112WBSD01

Tot Ion: 91 Resp: 294452
Ion Ratio Lower Upper
91 100
106 30.1 24.7 37.1

Manual Integrations
APPROVED

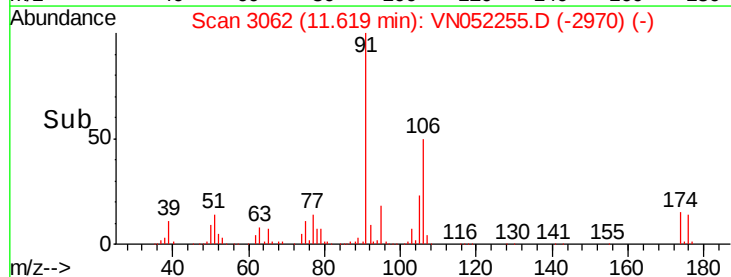
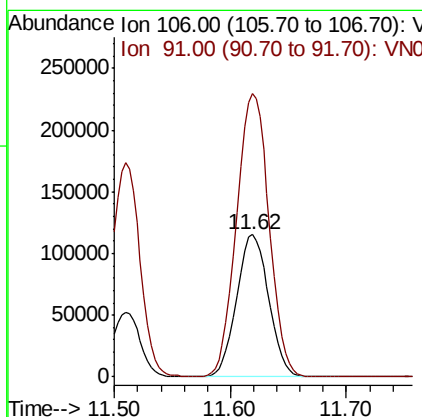
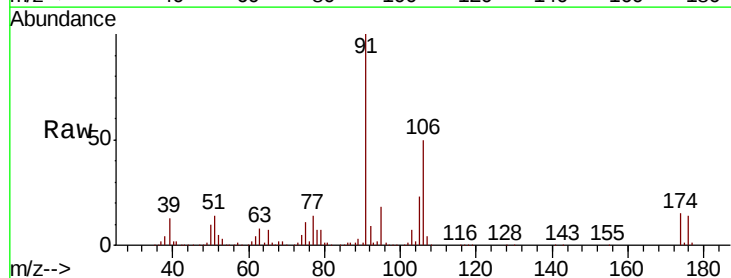
MMDadoda

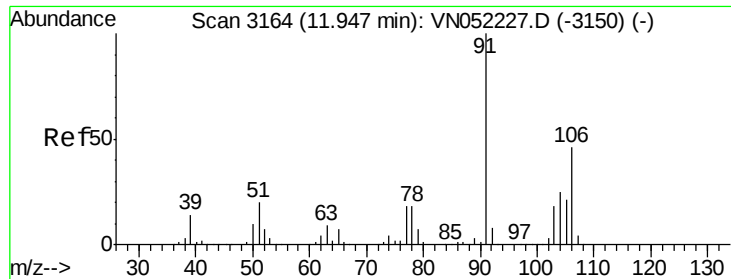
11/13/2018 2:54:29 PM



#68
m/p-Xylenes
Concen: 38.079 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion: 106 Resp: 220816
Ion Ratio Lower Upper
106 100
91 201.7 165.7 248.5





#69
o-Xylene
Concen: 19.610 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

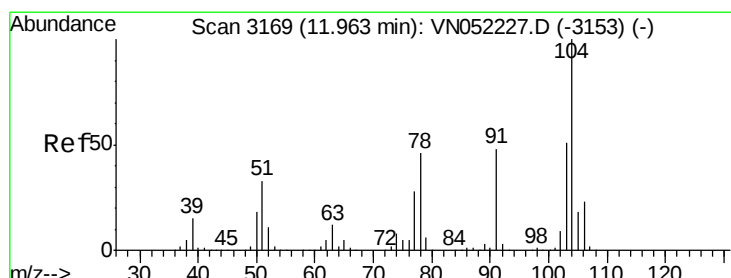
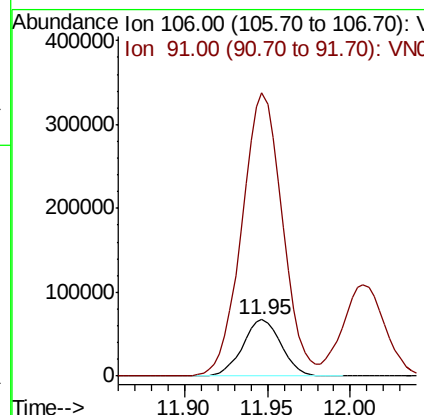
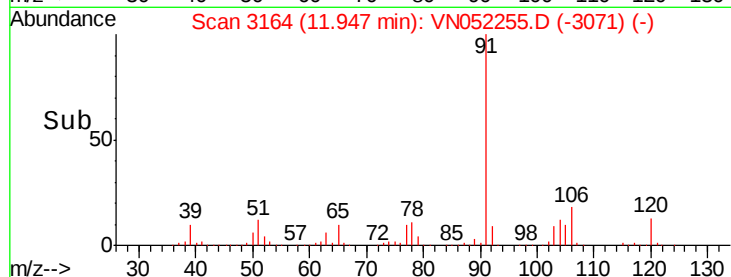
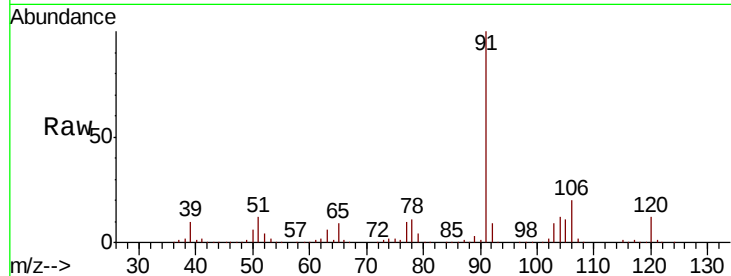
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion:106 Resp: 108641
Ion Ratio Lower Upper
106 100
91 529.7 108.5 325.5#

Manual Integrations
APPROVED

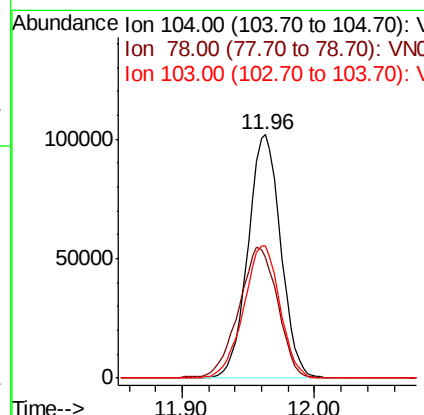
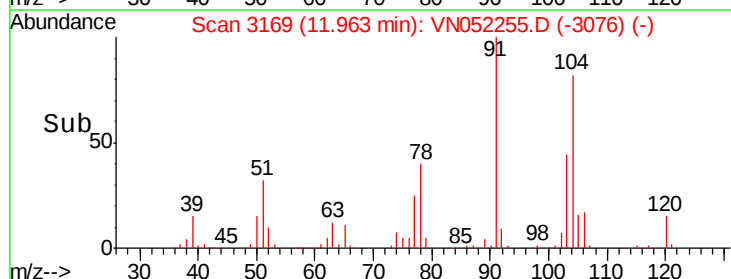
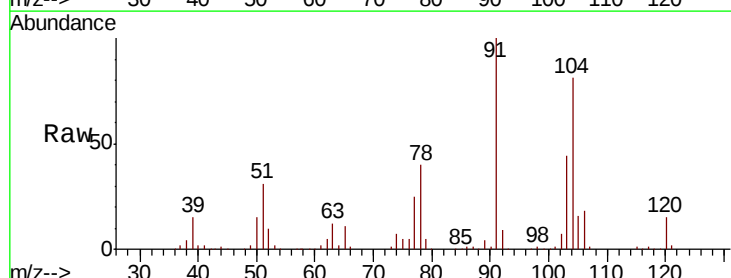
MMDadoda

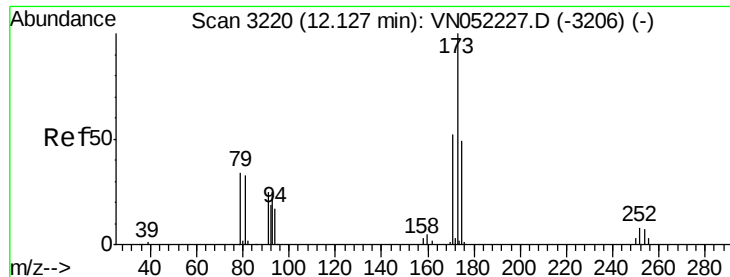
11/13/2018 2:54:29 PM



#70
Styrene
Concen: 19.532 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion:104 Resp: 174825
Ion Ratio Lower Upper
104 100
78 64.1 41.8 62.6#
103 60.3 44.9 67.3





#71

Bromoform

Concen: 18.753 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampled :

VN1112WBSD01

Tot Ion:173 Resp: 33547

Ion Ratio Lower Upper

173 100

175 47.4 24.5 73.5

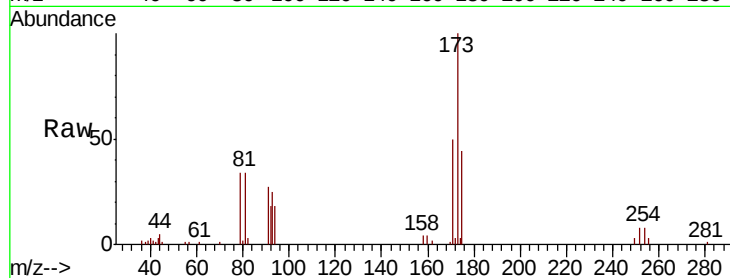
254 0.0 0.0 0.0

Manual Integrations

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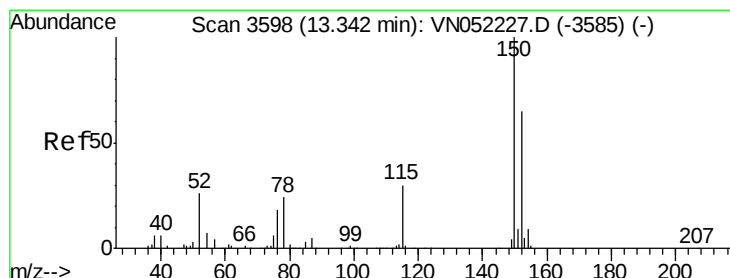
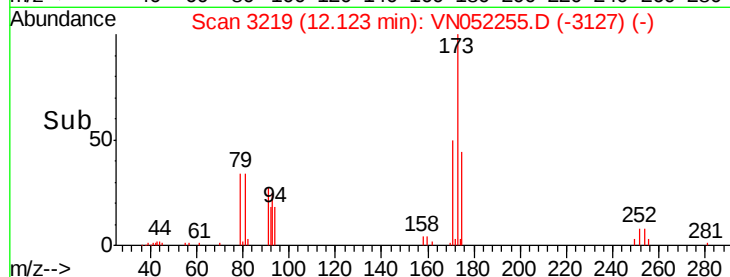
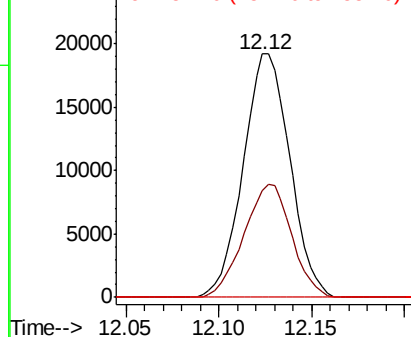


Abundance

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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

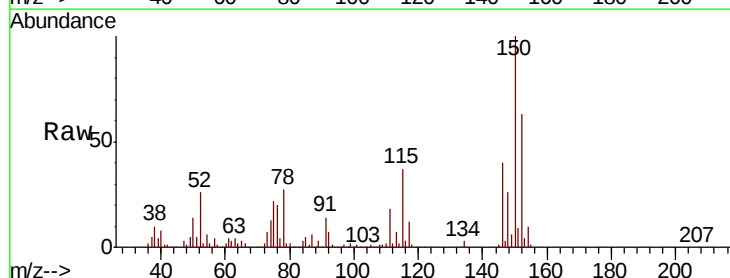
Tgt Ion:152 Resp: 181192

Ion Ratio Lower Upper

152 100

115 61.9 29.8 89.5

150 169.2 0.0 350.2

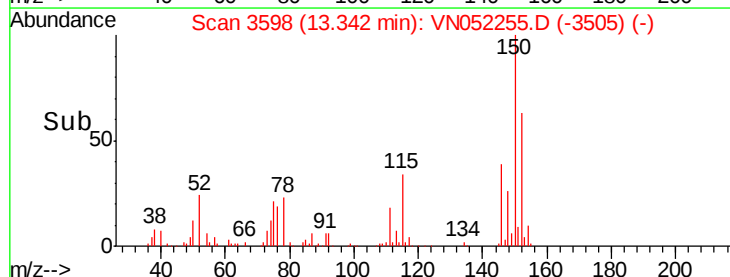
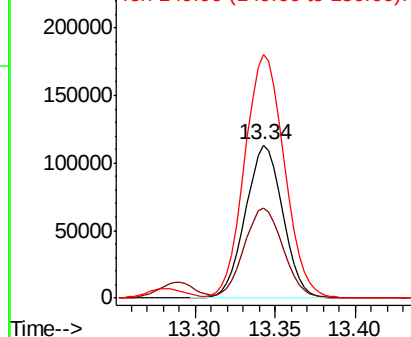


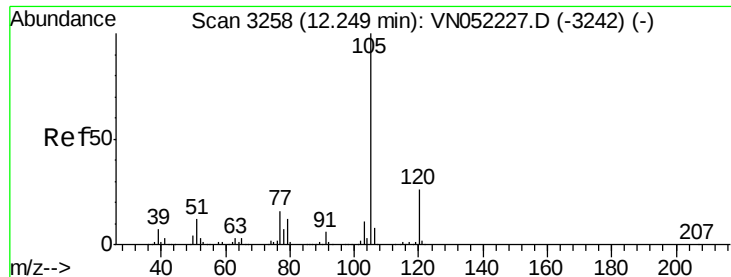
Abundance

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: 19.174 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

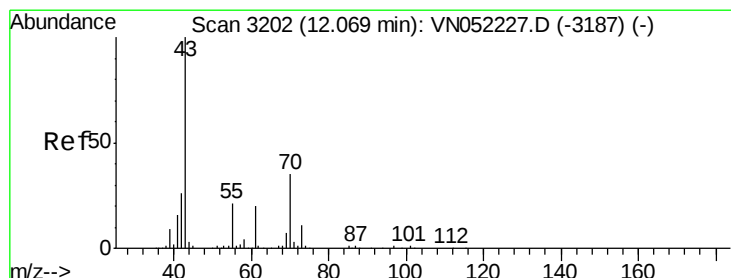
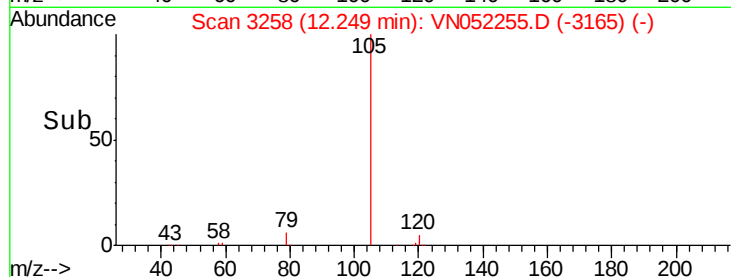
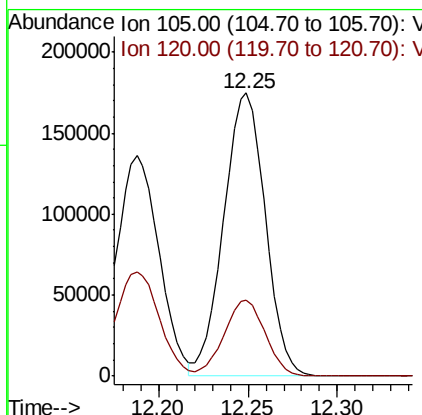
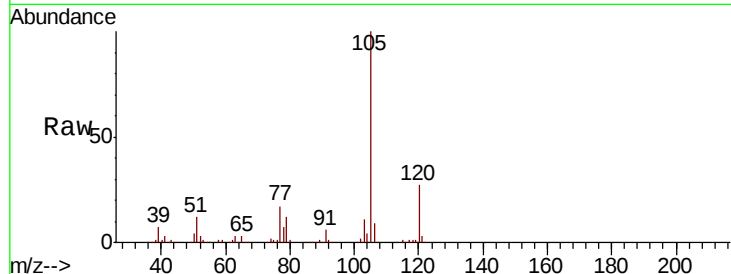
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.1	39.1

Manual Integrations
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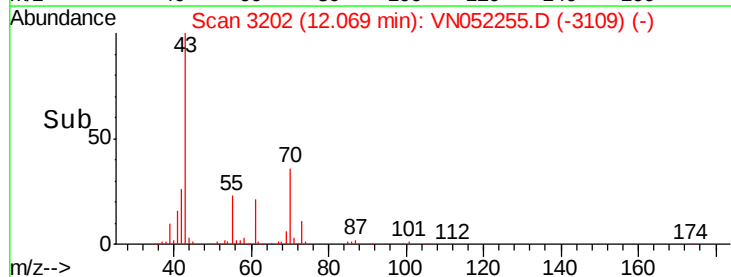
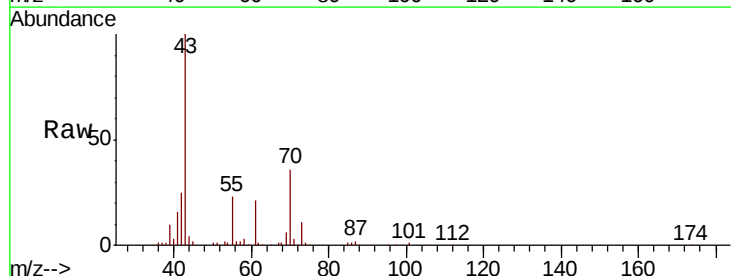
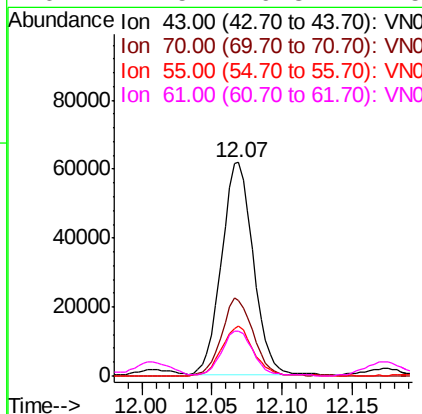
MMDadoda

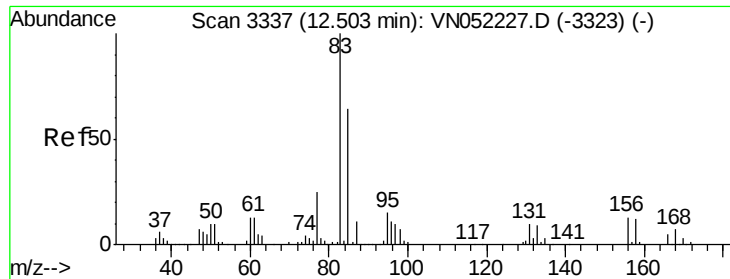
11/13/2018 2:54:29 PM



#74
N-ethyl acetate
Concen: 18.036 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
43	100		
70	36.2	28.2	42.2
55	23.1	17.4	26.2
61	21.5	16.3	24.5





#75

1,1,2,2-Tetrachloroethane

Concen: 17.909 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampled :

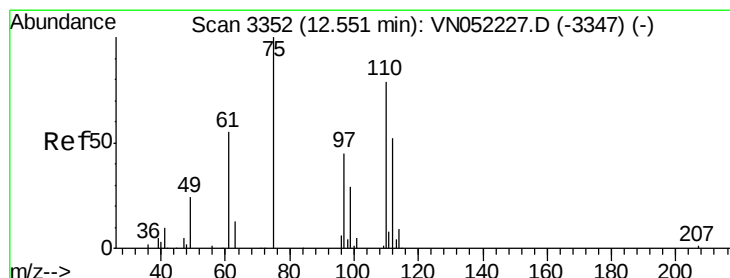
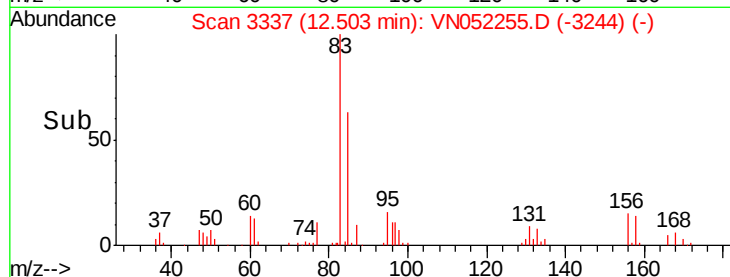
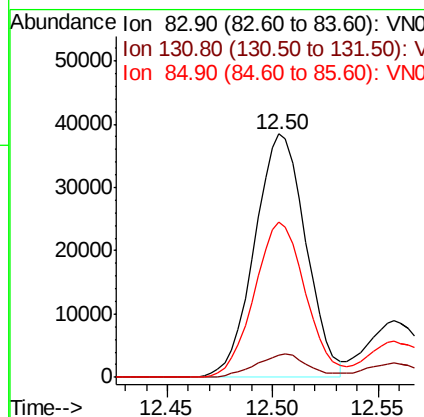
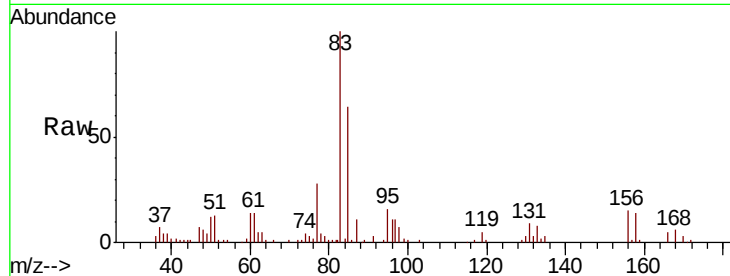
VN1112WBSD01

Tot Ion:	83	Resp:	65029
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.1	15.2
85	64.0	32.4	97.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.387 ug/l m

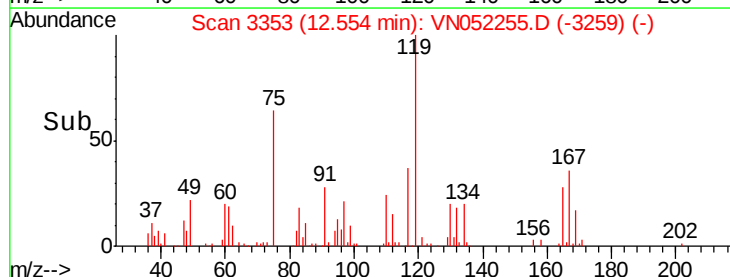
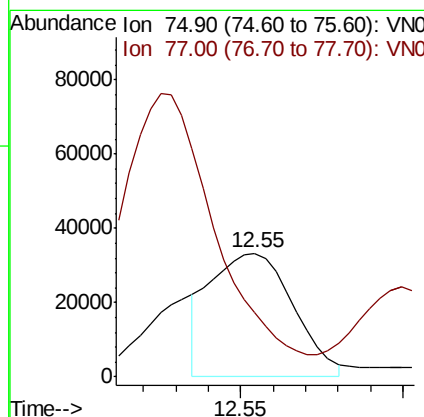
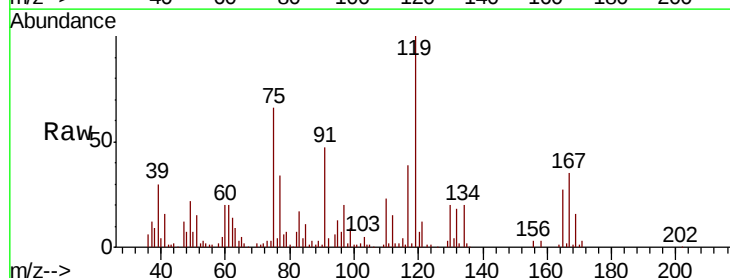
RT: 12.55 min Scan# 3353

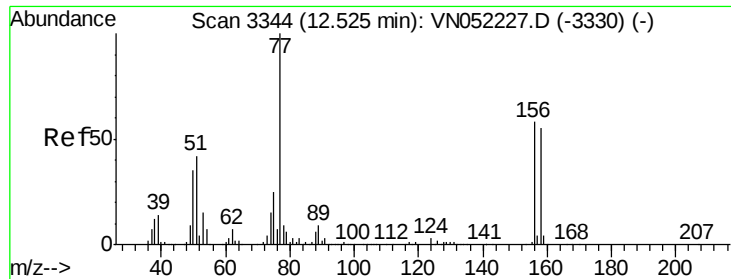
Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Tgt Ion:	75	Resp:	58945
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 18.654 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

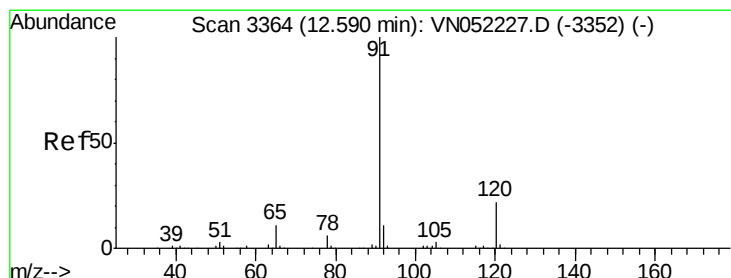
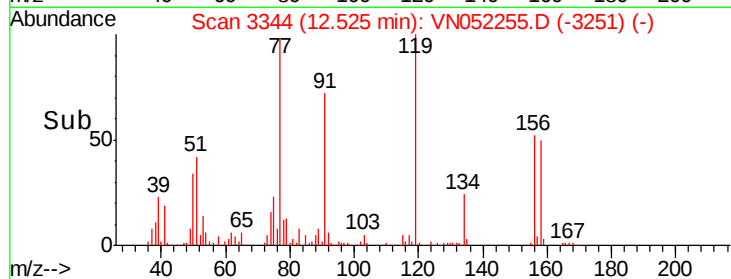
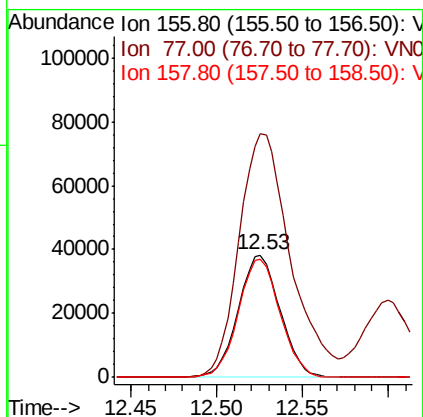
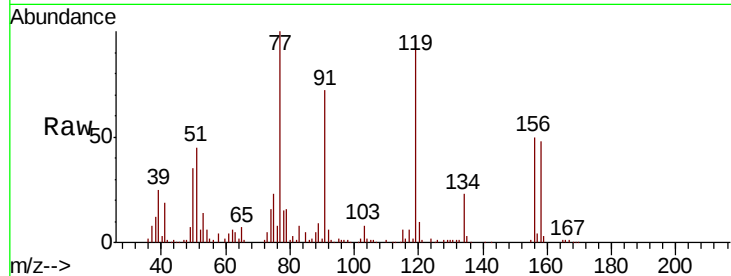
Instrument :
MSVOA_N
ClientSampled :
VN1112WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	244.8	101.1	303.3	
158	96.3	47.8	143.3	

Manual Integrations
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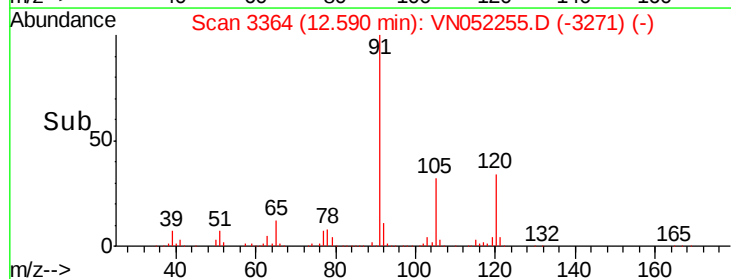
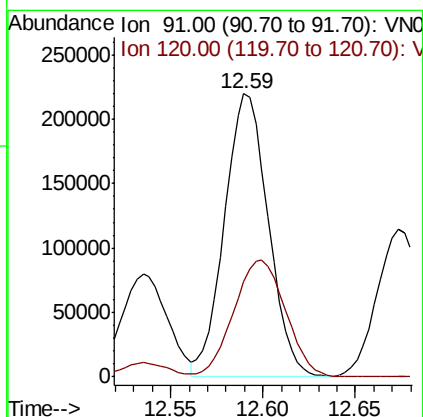
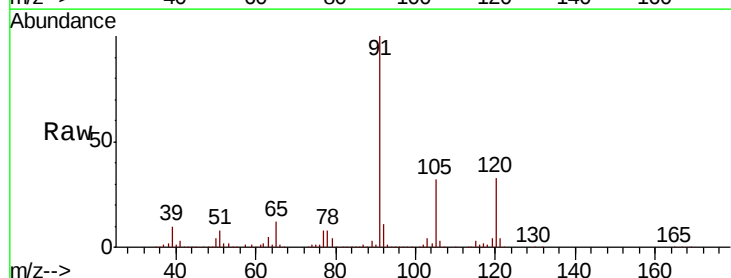
MMDadoda

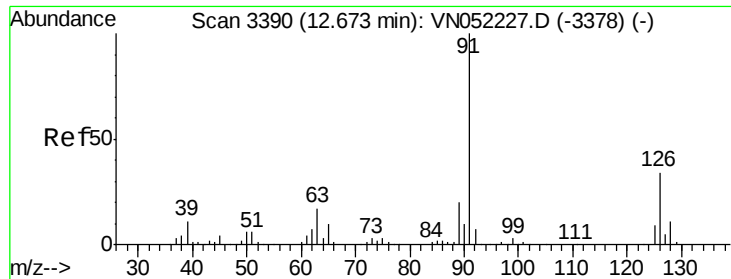
11/13/2018 2:54:29 PM



#78
n-propylbenzene
Concen: 20.853 ug/l m
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	5.6	11.3	33.8	





#79

2-Chlorotoluene

Concen: 19.344 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion: 91 Resp: 194400

Ion Ratio Lower Upper

91 100

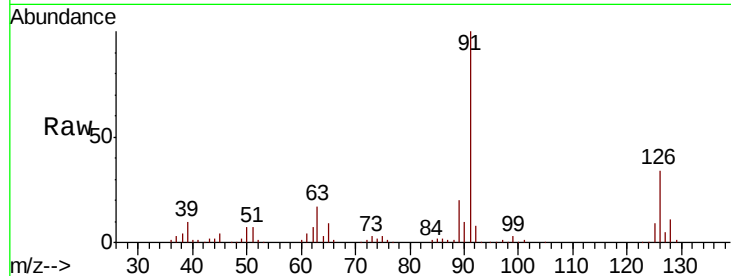
126 33.4 17.0 51.0

Manual Integrations

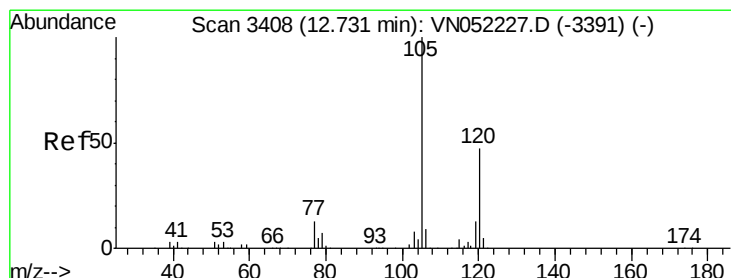
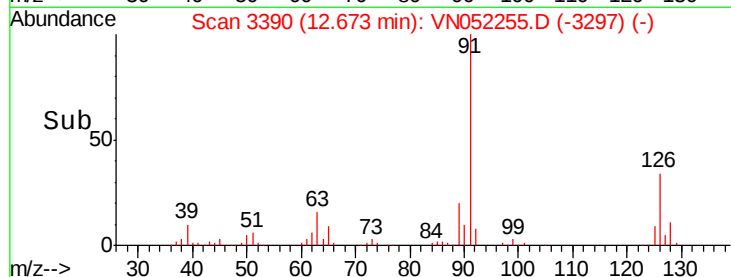
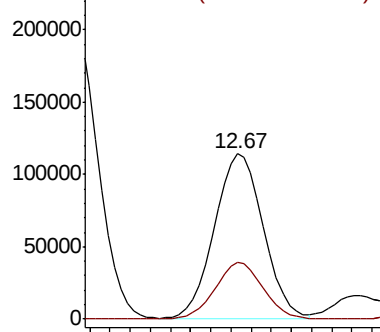
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Abundance Ion 91.00 (90.70 to 91.70): VN052227.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.951 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052255.D

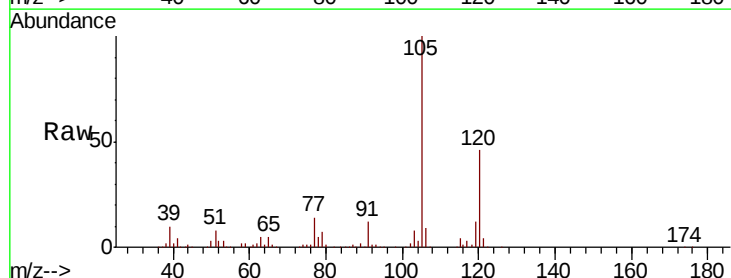
Acq: 12 Nov 2018 12:05

Tgt Ion: 105 Resp: 235013

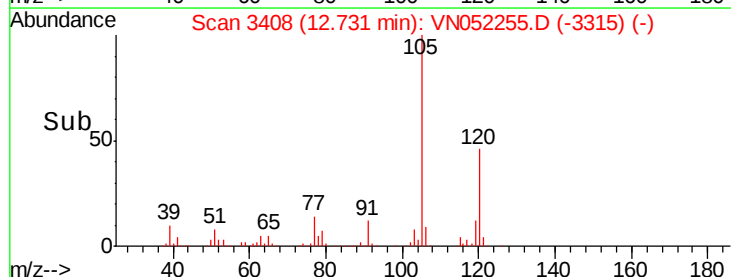
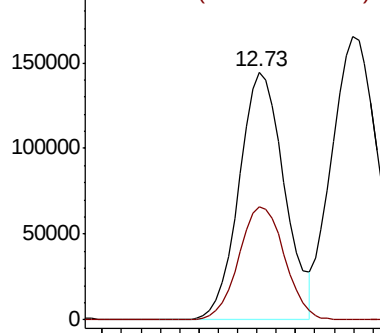
Ion Ratio Lower Upper

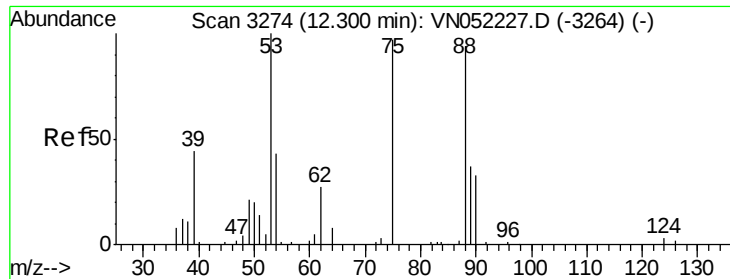
105 100

120 46.4 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): VN052227.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 18.662 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

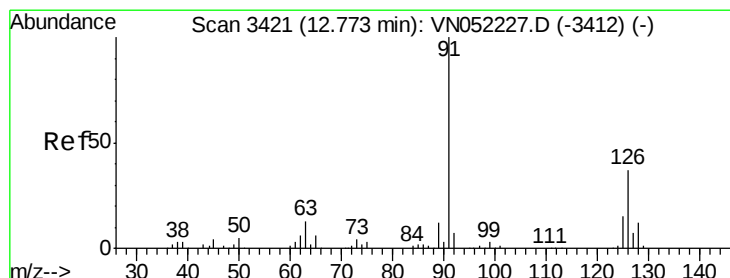
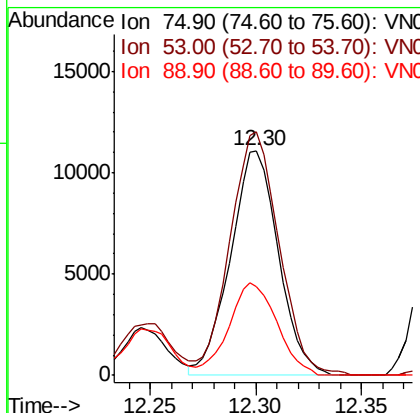
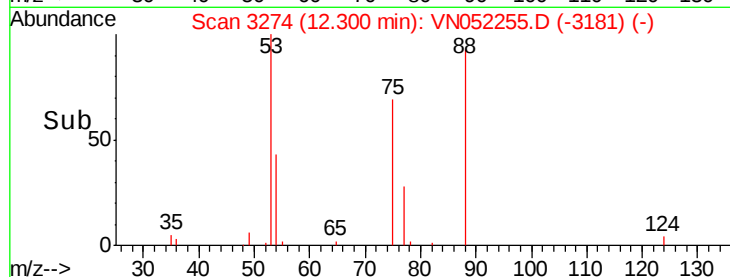
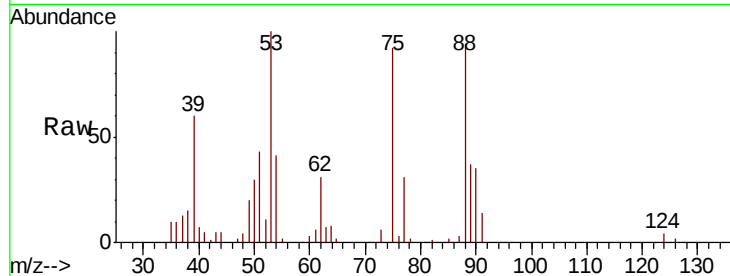
VN1112WBSD01

Tot Ion:	75	Resp:	17527
Ion	Ratio	Lower	Upper
75	100		
53	110.3	84.0	126.0
89	41.2	33.7	50.5

Manual Integrations
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#82

4-Chlorotoluene

Concen: 23.760 ug/l

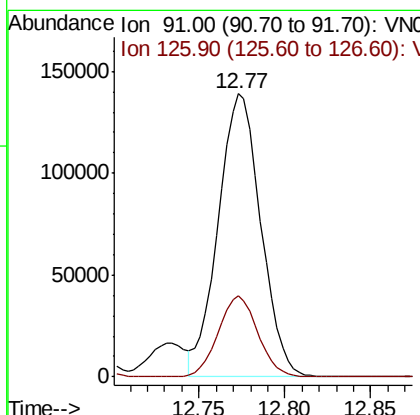
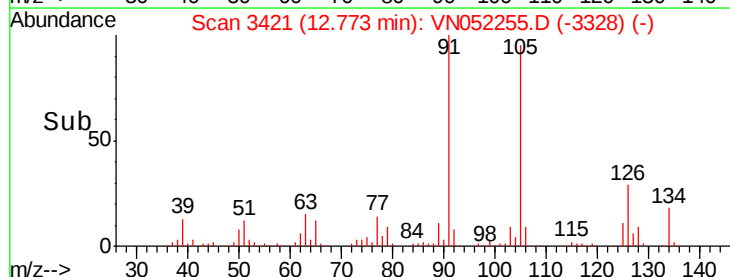
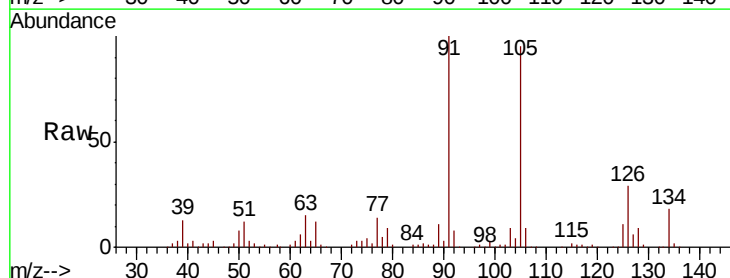
RT: 12.77 min Scan# 3421

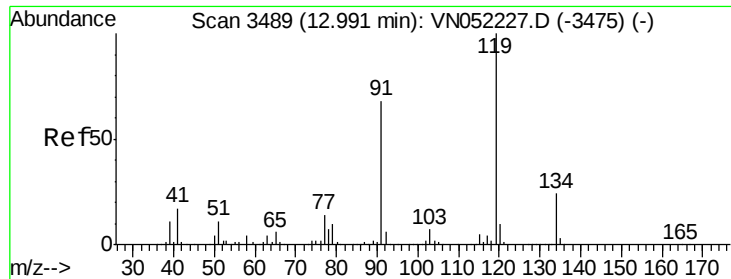
Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Tgt Ion:	91	Resp:	239595
Ion	Ratio	Lower	Upper
91	100		
126	26.6	16.9	50.7





#83
tert-Butylbenzene
Concen: 19.324 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

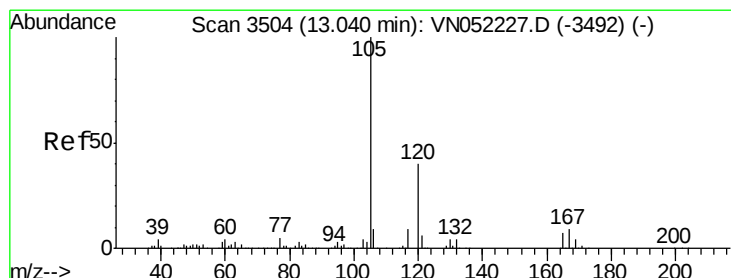
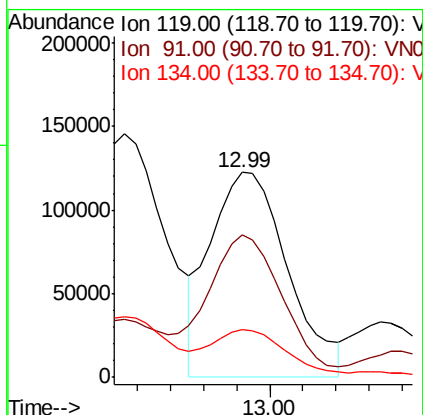
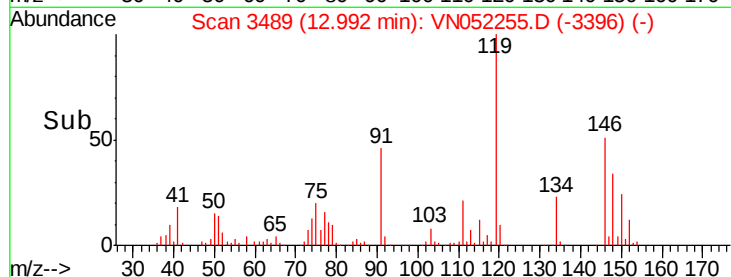
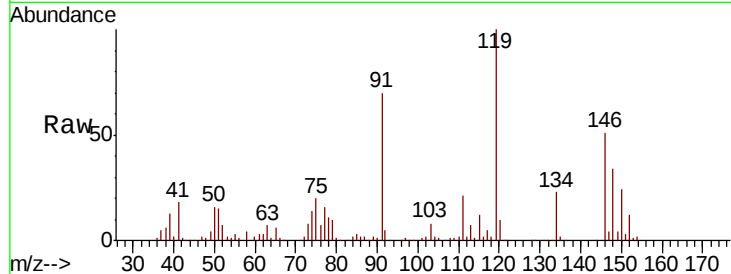
Instrument :
MSVOA_N
ClientSampleId :
VN1112WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	198727		
91	69.6	33.5	100.4	
134	20.1	13.0	38.9	

Manual Integrations
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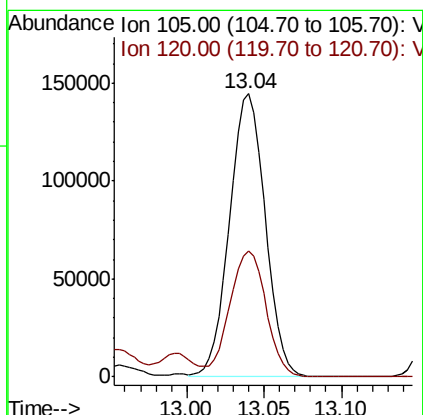
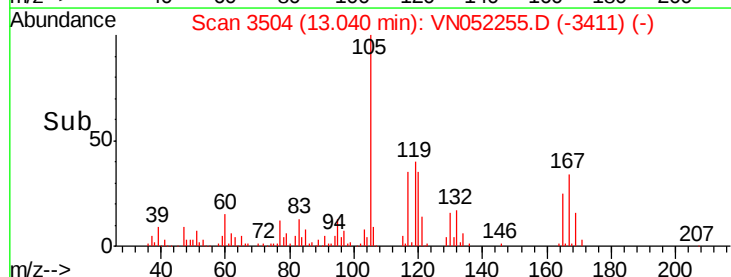
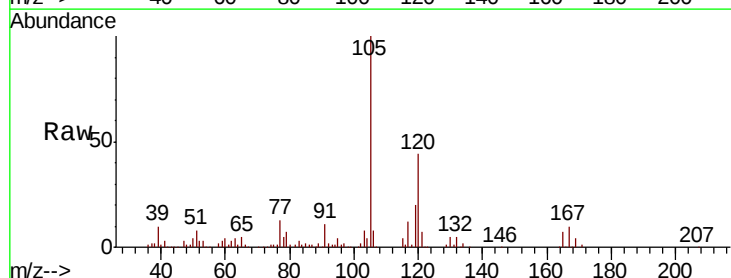
MMDadoda

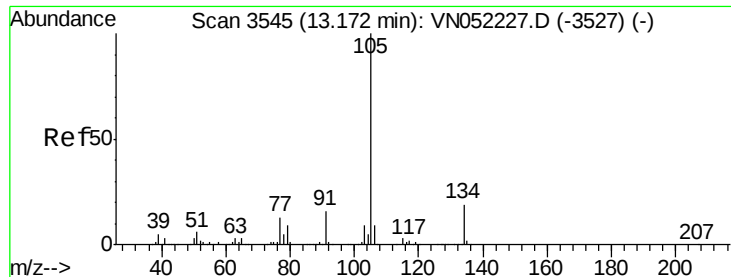
11/13/2018 2:54:29 PM



#84
1,2,4-Trimethylbenzene
Concen: 19.535 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052255.D
Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	232018		
120	45.2	22.7	68.1	





#85

sec-Butylbenzene

Concen: 19.456 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

VN1112WBSD01

Tot Ion:105 Resp: 274382

Ion Ratio Lower Upper

105 100

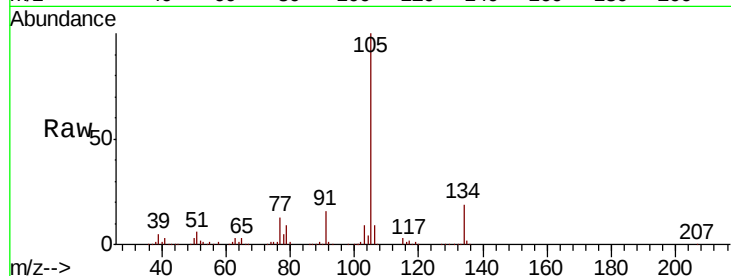
134 19.4 9.7 28.9

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

200000

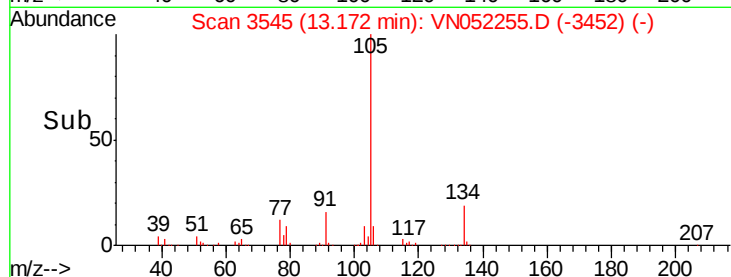
150000

100000

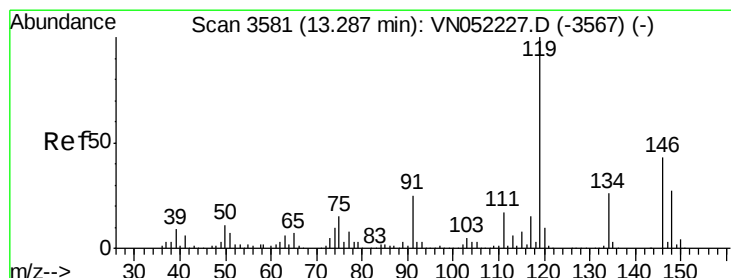
50000

0

13.10 13.15 13.20 13.25



Time-->



#86

p-Isopropyltoluene

Concen: 19.783 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

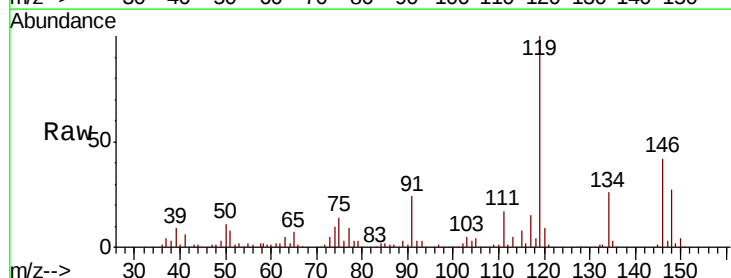
Tgt Ion:119 Resp: 233402

Ion Ratio Lower Upper

119 100

134 26.0 13.2 39.6

91 23.8 12.4 37.0



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

200000

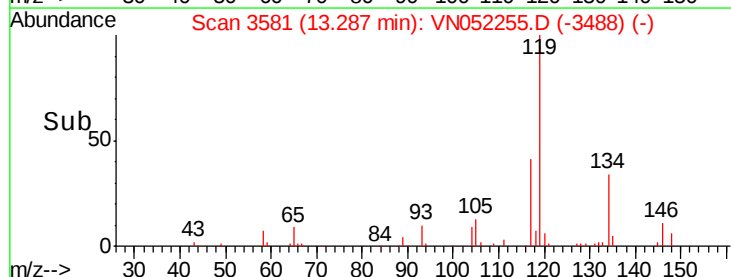
150000

100000

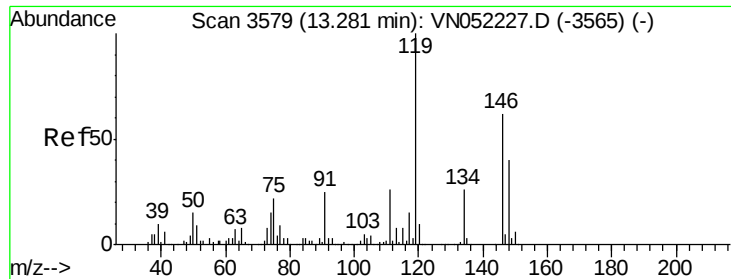
50000

0

13.25 13.30 13.35



Time-->



#87
 1,3-Dichlorobenzene
 Concen: 19.233 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

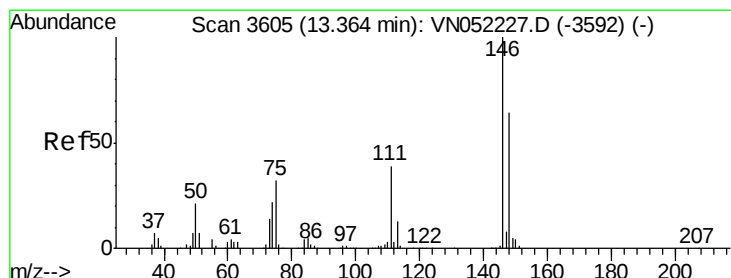
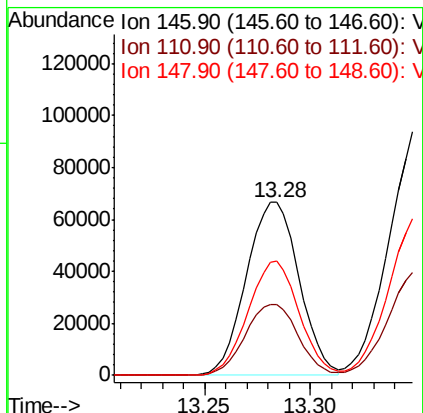
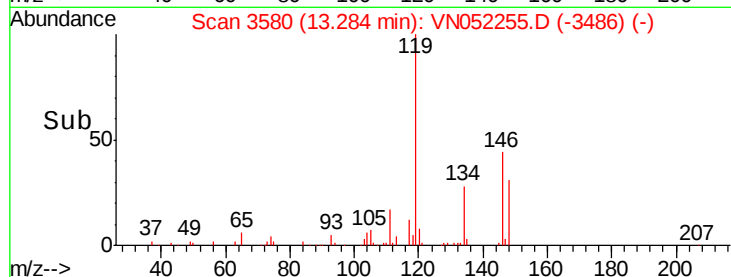
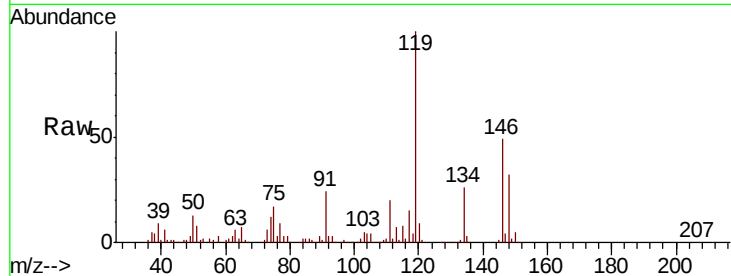
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.1	60.3
148	63.7	31.6	94.7

Manual Integrations
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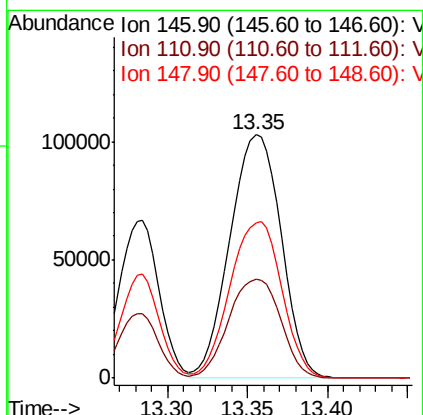
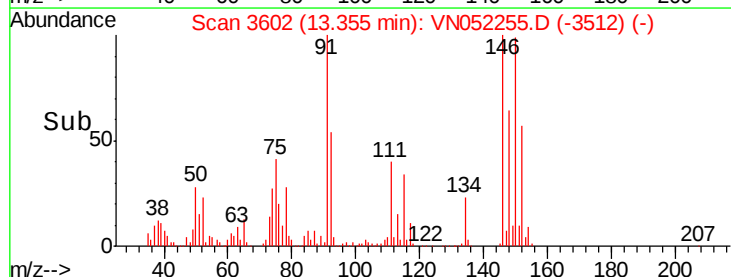
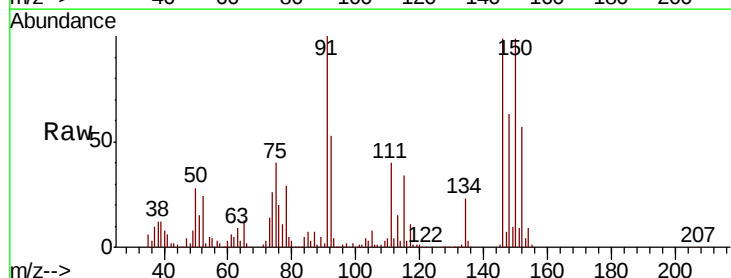
MMDadoda

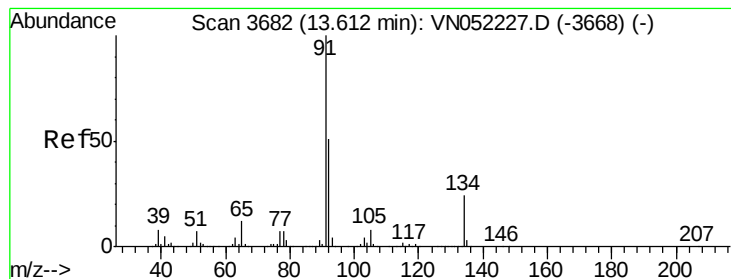
11/13/2018 2:54:29 PM



#88
 1,4-Dichlorobenzene
 Concen: 37.268 ug/l
 RT: 13.35 min Scan# 3602
 Delta R.T. -0.01 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.2	60.6
148	65.2	32.1	96.3





#89

n-Butylbenzene

Concen: 19.457 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampled :

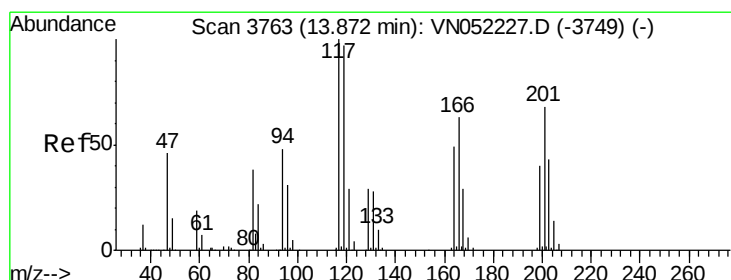
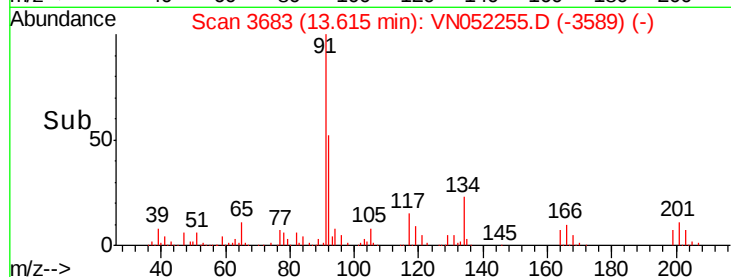
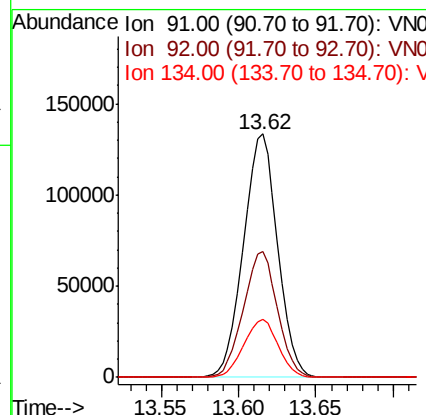
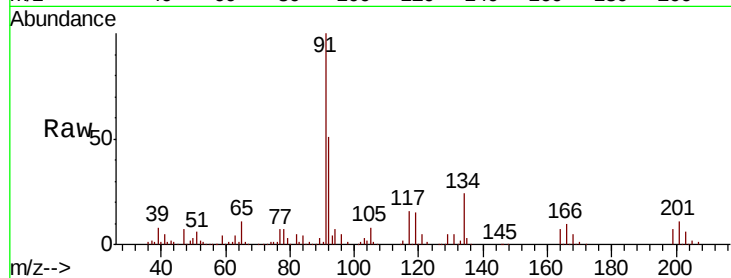
VN1112WBSD01

Tot Ion:	91	Resp:	204413
Ion Ratio	Lower	Upper	
91	100		
92	51.5	25.1	75.3
134	24.0	12.0	36.1

Manual Integrations
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#90

Hexachloroethane

Concen: 19.226 ug/l

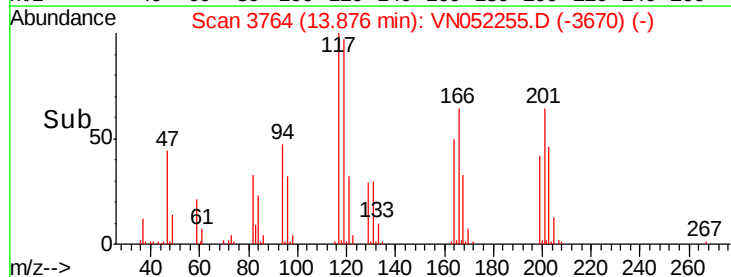
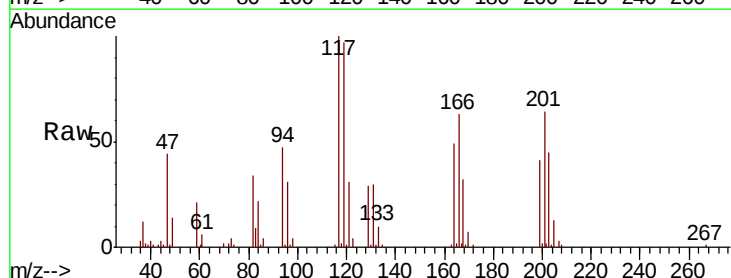
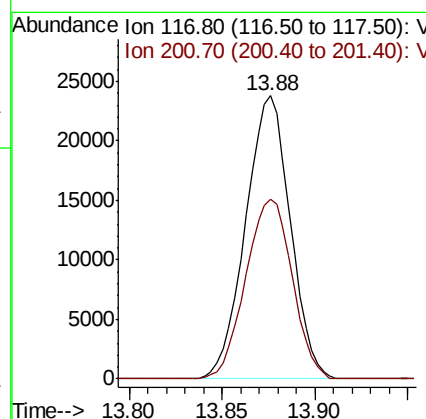
RT: 13.88 min Scan# 3764

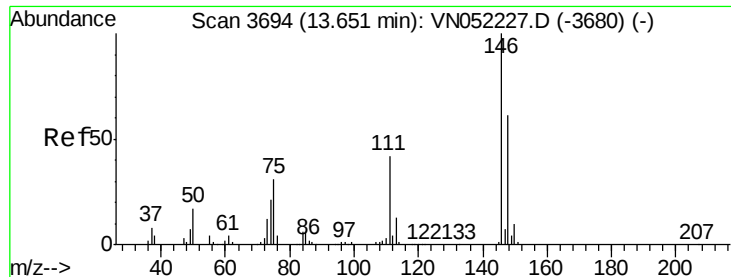
Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Tgt Ion:	117	Resp:	39814
Ion Ratio	Lower	Upper	
117	100		
201	66.0	34.6	103.9





#91
 1,2-Dichlorobenzene
 Concen: 18.811 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

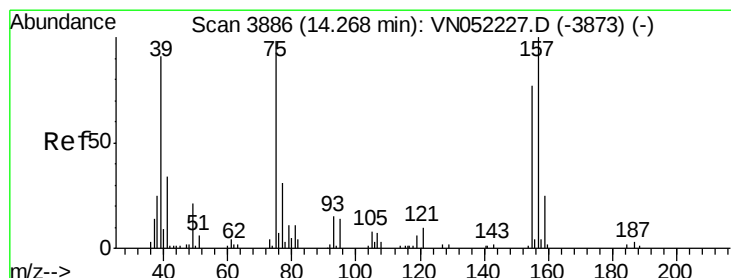
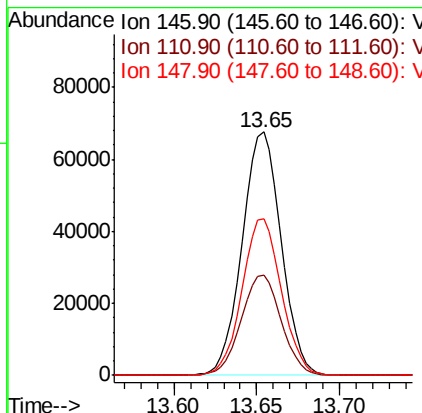
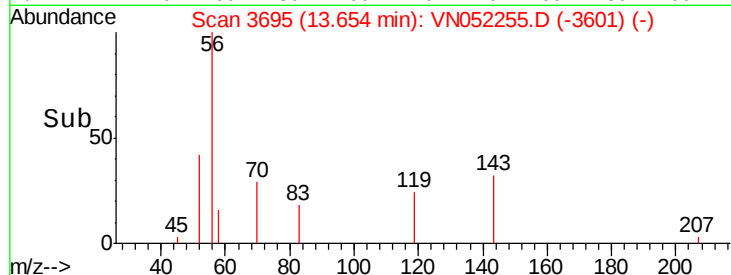
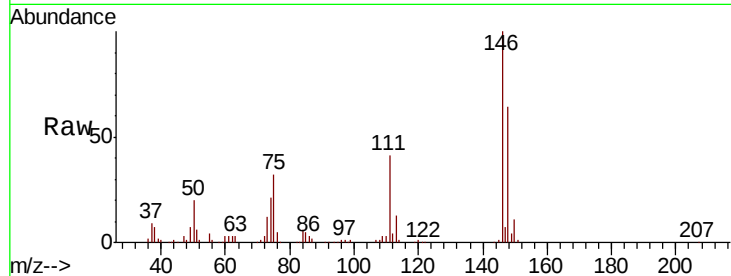
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1112WBSD01

Tot Ion:	146	Resp:	110801
Ion Ratio	Lower	Upper	
146	100		
111	42.0	21.1	63.3
148	64.7	31.3	93.8

Manual Integrations
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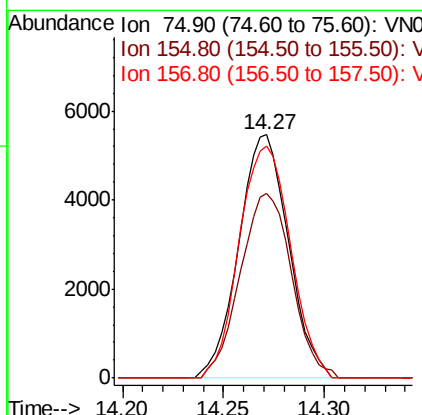
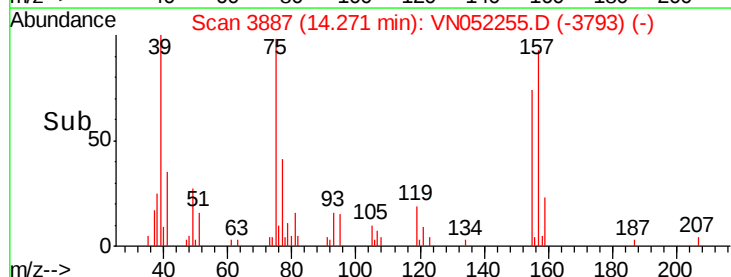
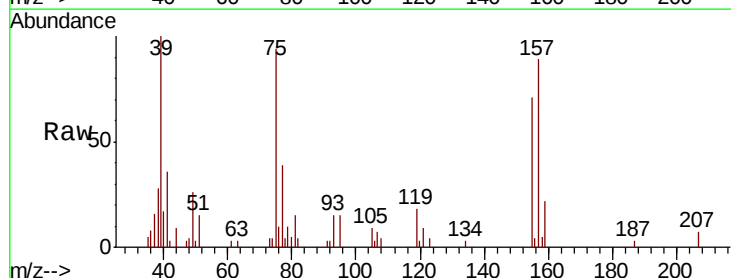
MMDadoda

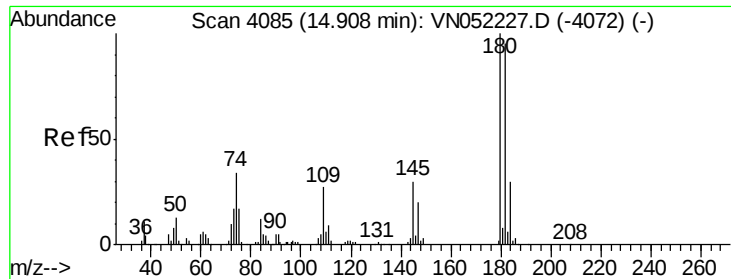
11/13/2018 2:54:29 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.281 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

Tgt Ion:	75	Resp:	9437
Ion Ratio	Lower	Upper	
75	100		
155	78.3	40.2	120.5
157	98.5	51.7	155.2





#93
 1,2,4-Trichlorobenzene
 Concen: 19.382 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

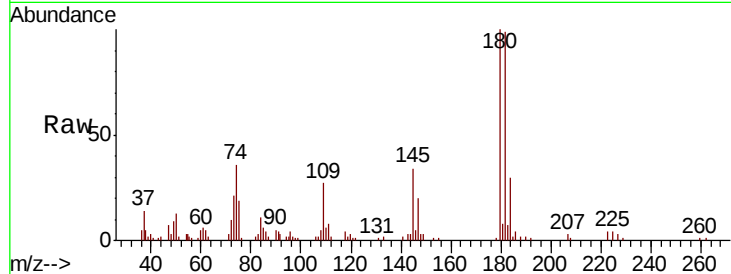
Instrument :
 MSVOA_N
 ClientSampled :
 VN1112WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.3	142.0
145	38.7	15.6	46.8

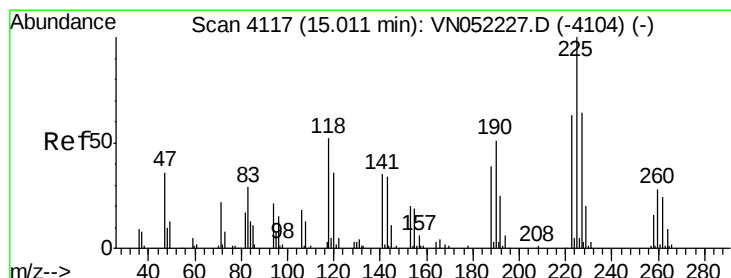
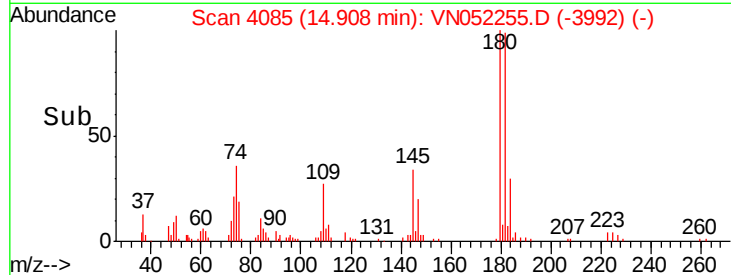
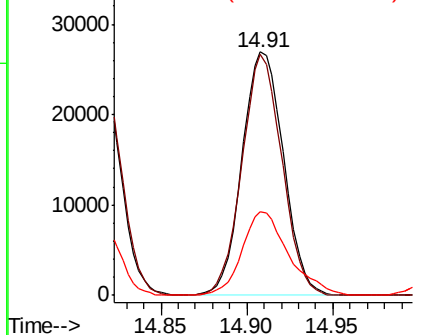
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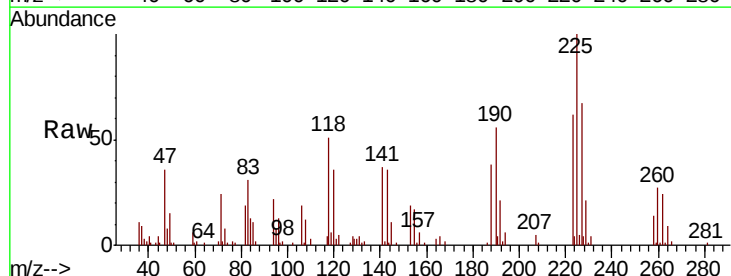


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

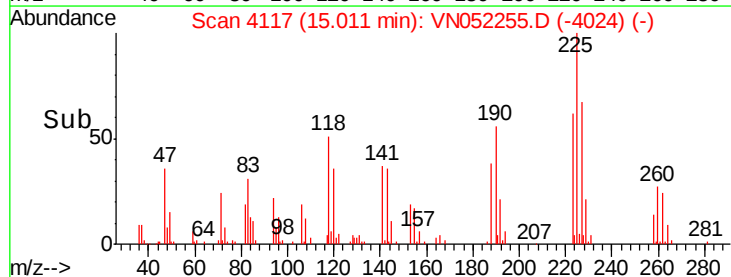
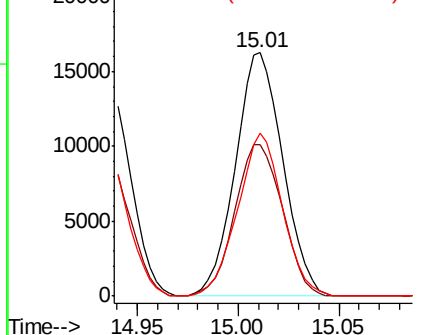


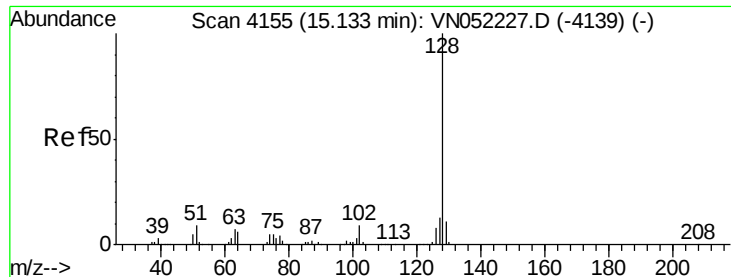
#94
 Hexachlorobutadiene
 Concen: 21.156 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052255.D
 Acq: 12 Nov 2018 12:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.6	32.1	96.3
227	63.3	31.8	95.4



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 17.506 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Instrument :

MSVOA_N

ClientSampleId :

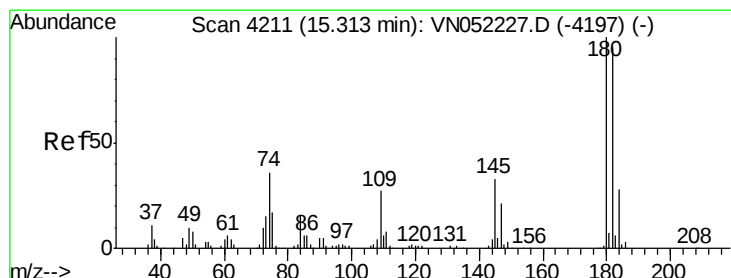
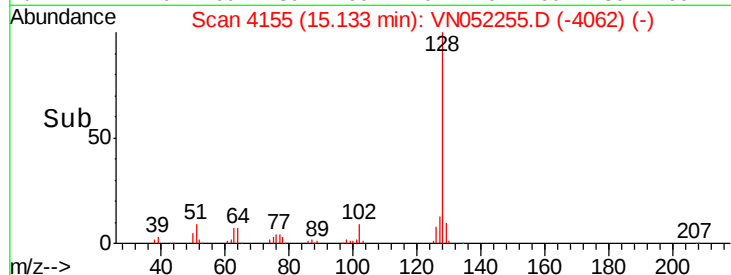
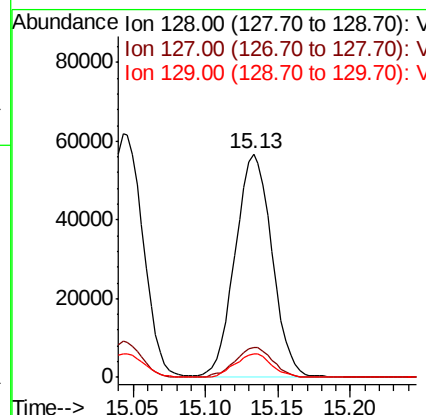
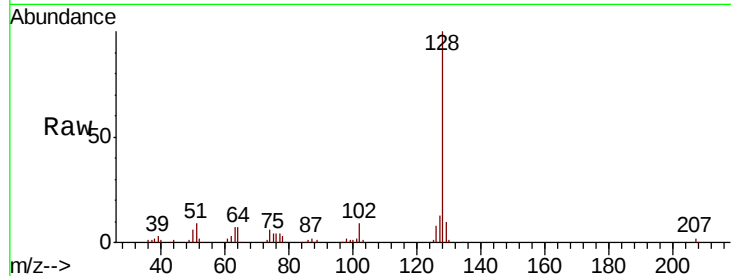
VN1112WBSD01

Tot Ion:	128	Resp:	100496
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.6	16.0
129	10.4	8.7	13.1

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#96

1,2,3-Trichlorobenzene

Concen: 17.999 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052255.D

Acq: 12 Nov 2018 12:05

Tgt Ion:	180	Resp:	39636
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.7	143.1
145	31.7	16.8	50.3

