

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\
 Data File : VN053973.D
 Acq On : 27 Feb 2019 17:30
 Operator : JC/SP
 Sample : VN0227WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 2:55:33 PM

Quant Time: Feb 28 07:30:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	651318	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1030368	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	887484	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	398075	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	359341	47.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.14%	
35) Dibromofluoromethane	7.59	113	320264	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
50) Toluene-d8	10.09	98	1177381	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
62) 4-Bromofluorobenzene	12.40	95	385249	46.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	113972	19.014	ug/l	96
3) Chloromethane	2.06	50	155898	18.750	ug/l	100
4) Vinyl Chloride	2.19	62	156492	18.785	ug/l	100
5) Bromomethane	2.57	94	99267	17.992	ug/l	99
6) Chloroethane	2.71	64	93343	18.016	ug/l	97
7) Trichlorofluoromethane	3.02	101	198722	18.672	ug/l	99
8) Diethyl Ether	3.41	74	73831	18.516	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	128054	19.051	ug/l	93
10) Methyl Iodide	3.95	142	163381	18.498	ug/l	98
11) Tert butyl alcohol	4.78	59	42229	87.249	ug/l #	73
12) 1,1-Dichloroethene	3.74	96	115373	17.944	ug/l	91
13) Acrolein	3.61	56	26637	53.156	ug/l	100
14) Allyl chloride	4.32	41	214548	19.026	ug/l	95
15) Acrylonitrile	4.99	53	240117	94.128	ug/l	98
16) Acetone	3.82	43	205199	93.942	ug/l	94
17) Carbon Disulfide	4.05	76	359913	17.352	ug/l	100
18) Methyl Acetate	4.32	43	104097	19.499	ug/l	93
19) Methyl tert-butyl Ether	5.04	73	327629	18.995	ug/l	99
20) Methylene Chloride	4.55	84	135699	17.958	ug/l	91
21) trans-1,2-Dichloroethene	5.04	96	126589	18.191	ug/l	89
22) Diisopropyl ether	5.95	45	420090	19.310	ug/l	96
23) Vinyl Acetate	5.89	43	1469300	93.883	ug/l	96
24) 1,1-Dichloroethane	5.85	63	251105	18.822	ug/l	99
25) 2-Butanone	6.83	43	279983	93.395	ug/l	94
26) 2,2-Dichloropropane	6.82	77	178651	18.848	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	148082	19.134	ug/l	94
28) Bromochloromethane	7.19	49	116614	19.096	ug/l #	79
29) Tetrahydrofuran	7.21	42	183139	91.736	ug/l	92
30) Chloroform	7.37	83	244057	18.866	ug/l	99
31) Cyclohexane	7.65	56	238328	19.268	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	199391	18.693	ug/l	96
36) 1,1-Dichloropropene	7.79	75	181870	18.980	ug/l	98
37) Ethyl Acetate	6.93	43	125449	18.335	ug/l	96
38) Carbon Tetrachloride	7.77	117	173327	17.392	ug/l	97

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	213922	18.523	ug/l	93
40) Benzene	8.04	78	558354	18.968	ug/l	99
41) Methacrylonitrile	7.18	41	77383	17.565	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	175712	19.281	ug/l	96
43) Isopropyl Acetate	8.16	43	206896	17.910	ug/l	94
44) Trichloroethene	8.83	130	142830	18.302	ug/l	94
45) 1,2-Dichloropropane	9.12	63	152549	19.208	ug/l	98
46) Dibromomethane	9.21	93	86634	18.790	ug/l	92
47) Bromodichloromethane	9.40	83	184511	18.989	ug/l	96
48) Methyl methacrylate	9.20	41	97937	18.431	ug/l	93
49) 1,4-Dioxane	9.20	88	27768	385.831	ug/l #	90
51) 4-Methyl-2-Pentanone	9.98	43	558251	94.041	ug/l	95
52) Toluene	10.15	92	330807	19.085	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	177078	18.730	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	210281	18.867	ug/l #	91
55) 1,1,2-Trichloroethane	10.56	97	119037	18.389	ug/l	98
56) Ethyl methacrylate	10.43	69	141982	18.029	ug/l	88
57) 1,3-Dichloropropane	10.71	76	209442	19.149	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	349158	97.163	ug/l	95
59) 2-Hexanone	10.75	43	359609	93.143	ug/l	93
60) Dibromochloromethane	10.90	129	128739	17.895	ug/l	99
61) 1,2-Dibromoethane	11.00	107	113826	18.228	ug/l	98
64) Tetrachloroethene	10.63	164	142633	18.980	ug/l	96
65) Chlorobenzene	11.43	112	350964	18.738	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	126568	18.750	ug/l	99
67) Ethyl Benzene	11.51	91	597866	19.041	ug/l	98
68) m/p-Xylenes	11.62	106	458774	38.712	ug/l	96
69) o-Xylene	11.95	106	218955	18.803	ug/l	96
70) Styrene	11.96	104	349711	19.525	ug/l	98
71) Bromoform	12.12	173	84609	18.017	ug/l #	100
73) Isopropylbenzene	12.25	105	583773	18.839	ug/l	99
74) N-amyl acetate	12.07	43	156370	19.253	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	140067	18.076	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	130061m	20.367	ug/l	
77) Bromobenzene	12.53	156	144315	18.343	ug/l	89
78) n-propylbenzene	12.59	91	689398	19.562	ug/l	98
79) 2-Chlorotoluene	12.67	91	401741	18.977	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	498699	19.658	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	34343	16.998	ug/l	89
82) 4-Chlorotoluene	12.77	91	408360	19.517	ug/l	96
83) tert-Butylbenzene	12.99	119	434965	19.386	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	498436	19.681	ug/l	98
85) sec-Butylbenzene	13.17	105	606513	19.792	ug/l	98
86) p-Isopropyltoluene	13.29	119	514301	19.852	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	260315	19.127	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	255853	19.377	ug/l	98
89) n-Butylbenzene	13.62	91	438246	20.073	ug/l	98
90) Hexachloroethane	13.87	117	89695	17.867	ug/l	91
91) 1,2-Dichlorobenzene	13.65	146	251896	19.120	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20837	19.028	ug/l	86

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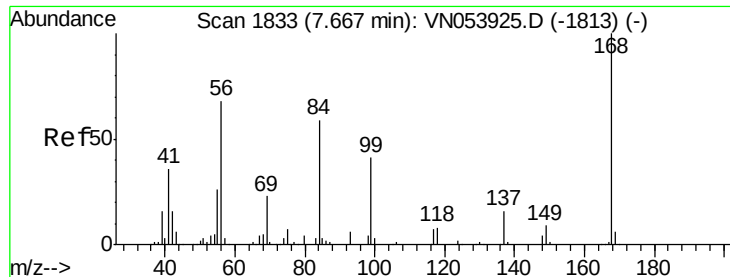
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	125713	18.640	ug/l	96
94) Hexachlorobutadiene	15.01	225	96004	20.173	ug/l	98
95) Naphthalene	15.13	128	230513	16.897	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	122863	18.518	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: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion:168 Resp: 651318

Ion Ratio Lower Upper

168 100

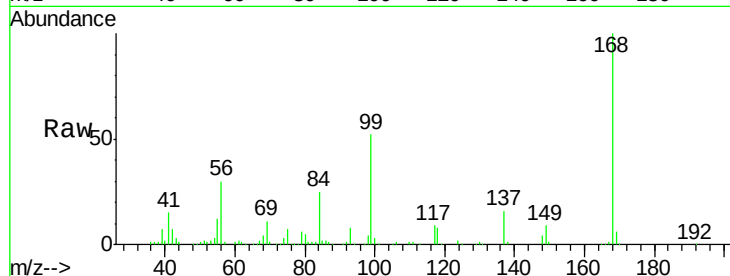
99 51.7 36.9 55.3

Manual Integrations

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2/28/2019 2:55:33 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

250000

200000

150000

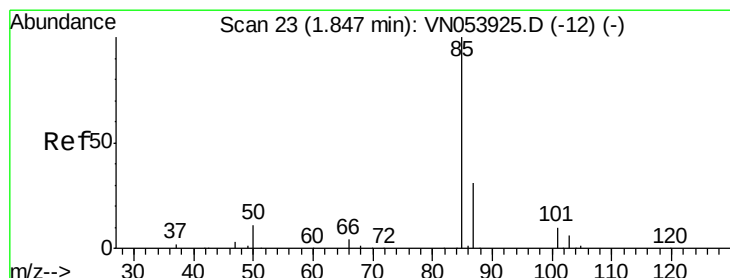
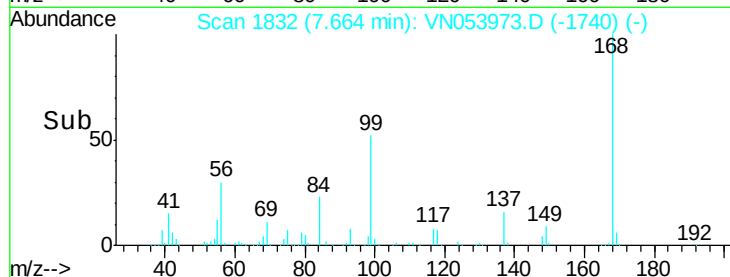
100000

50000

0

Time-->

7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 19.014 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN053973.D

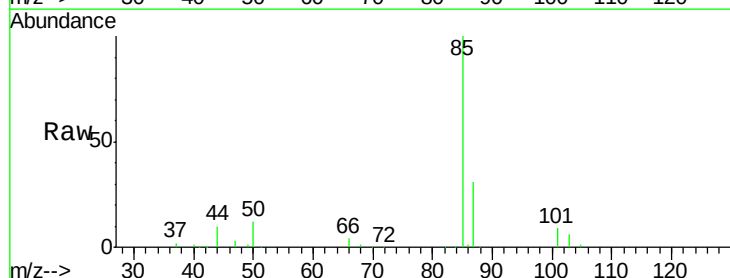
Acq: 27 Feb 2019 17:30

Tgt Ion: 85 Resp: 113972

Ion Ratio Lower Upper

85 100

87 30.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

60000

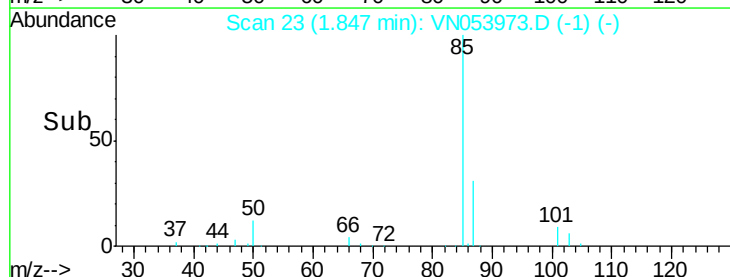
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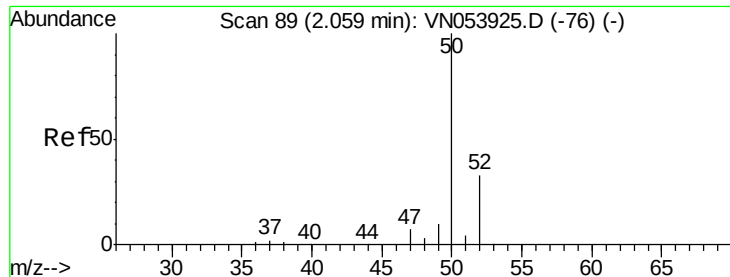
20000

0

Time-->

1.80 1.85 1.90 1.95





#3

Chloromethane

Concen: 18.750 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 50 Resp: 155898

Ion Ratio Lower Upper

50 100

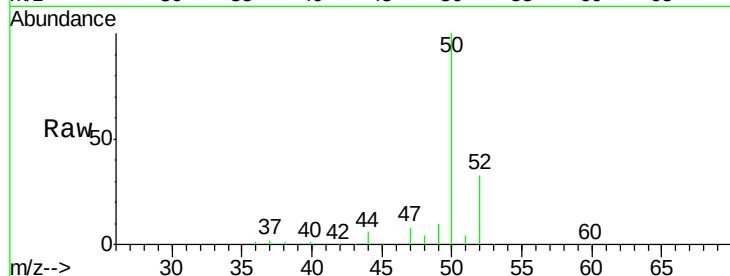
52 32.5 26.0 39.0

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

120000

100000

80000

60000

40000

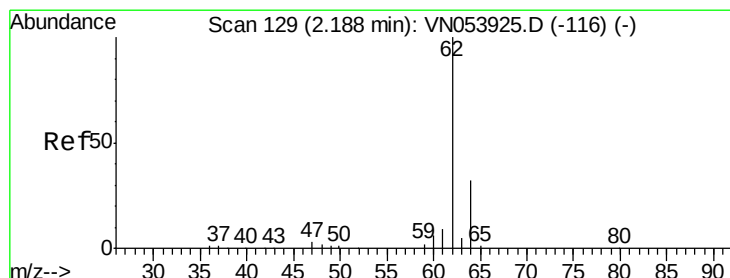
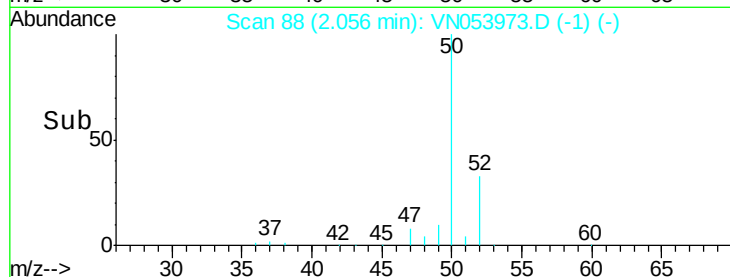
20000

0

2.06

2.00 2.05 2.10

Time-->



#4

Vinyl Chloride

Concen: 18.785 ug/l

RT: 2.19 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN053973.D

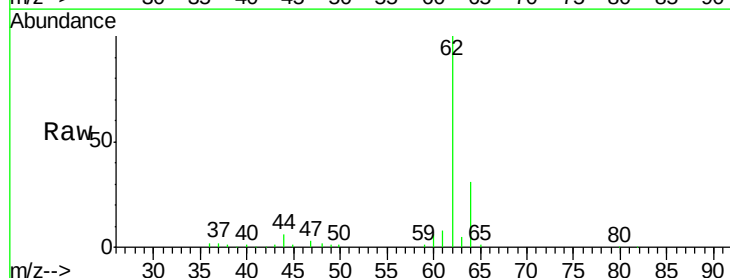
Acq: 27 Feb 2019 17:30

Tgt Ion: 62 Resp: 156492

Ion Ratio Lower Upper

62 100

64 31.2 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

120000

100000

80000

60000

40000

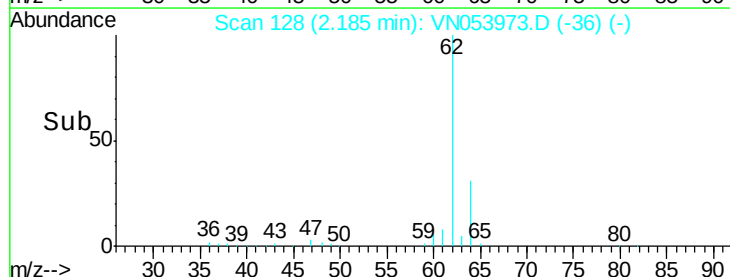
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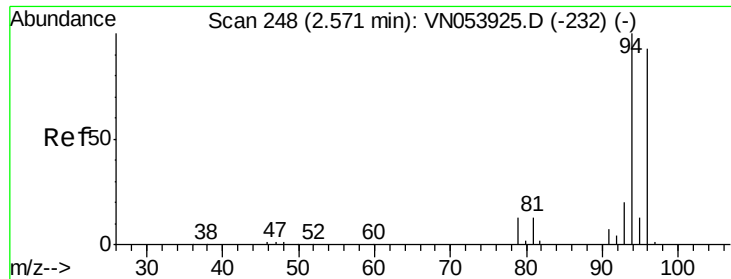
0

2.19

2.10 2.15 2.20 2.25 2.30

Time-->





#5

Bromomethane

Concen: 17.992 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

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Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 94 Resp: 99267

Ion Ratio Lower Upper

94 100

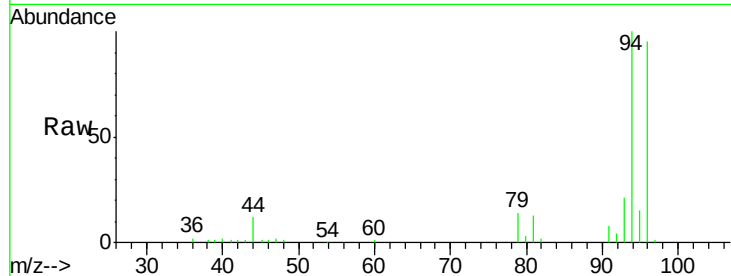
96 94.5 74.9 112.3

Manual Integrations

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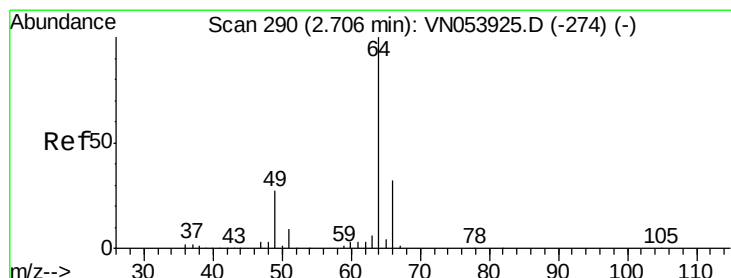
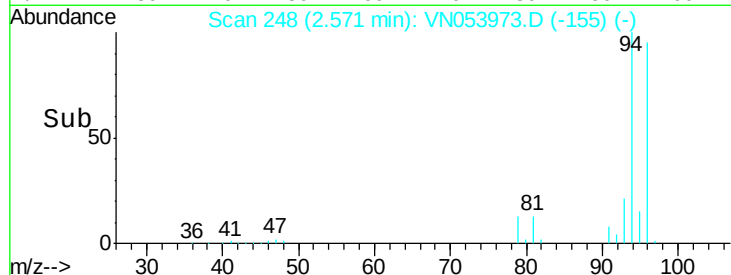
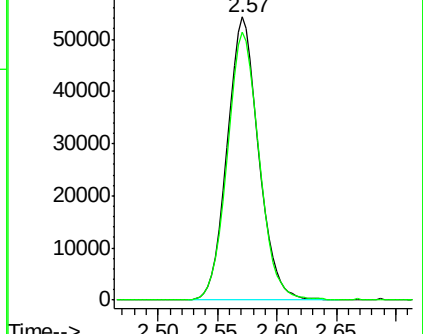
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.016 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053973.D

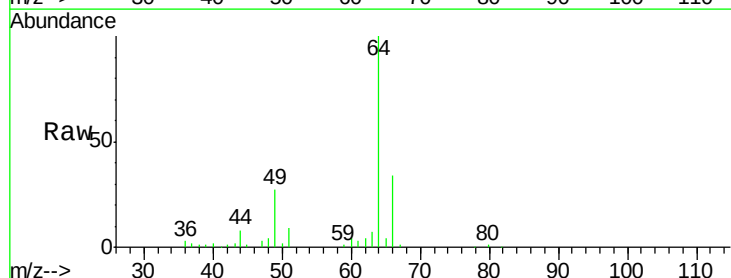
Acq: 27 Feb 2019 17:30

Tgt Ion: 64 Resp: 93343

Ion Ratio Lower Upper

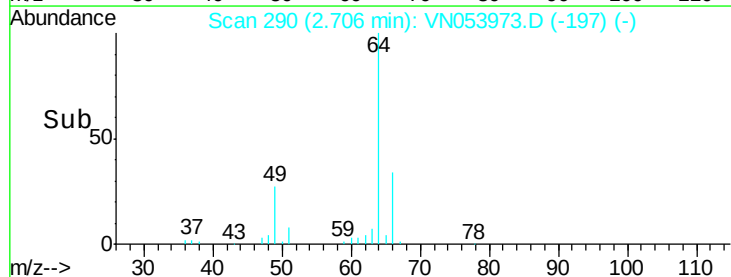
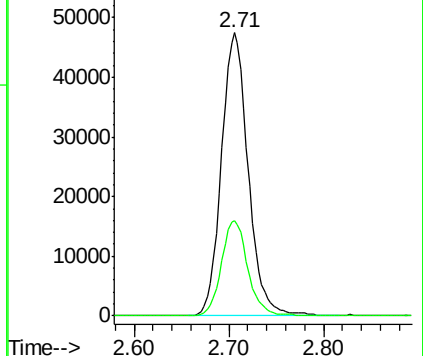
64 100

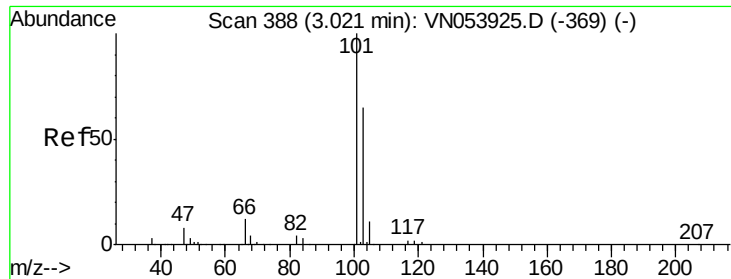
66 33.6 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

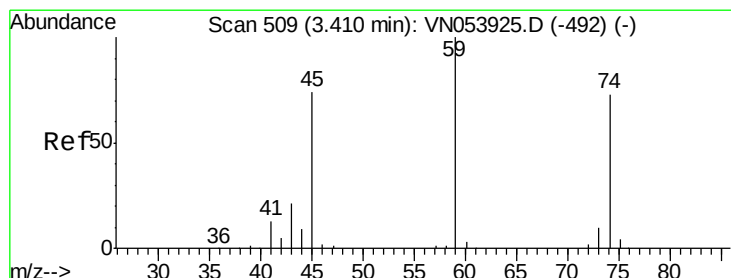
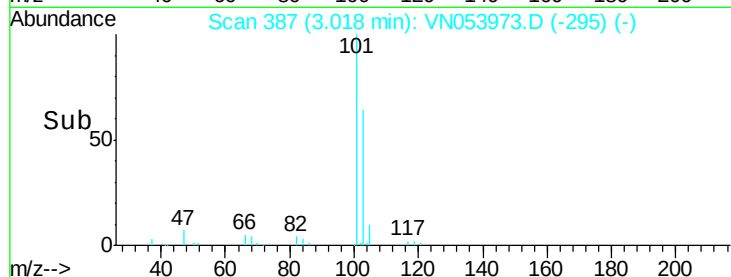
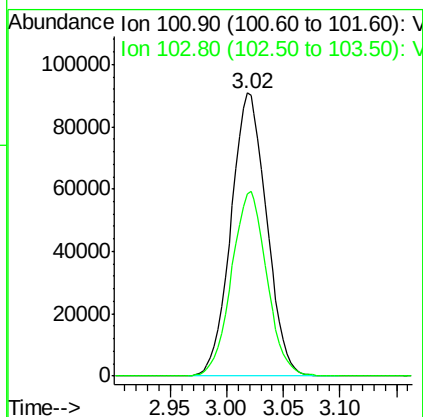
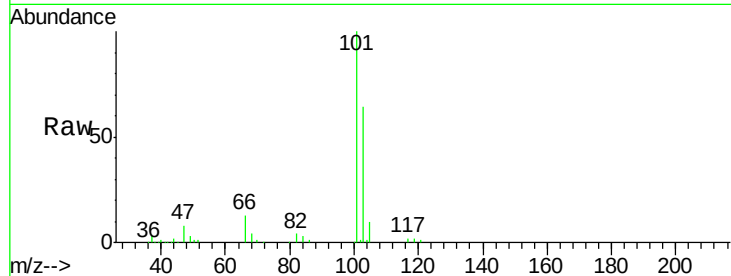
Trichlorofluoromethane
Concen: 18.672 ug/l
RT: 3.02 min Scan# 387
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.9	77.9

Manual Integrations
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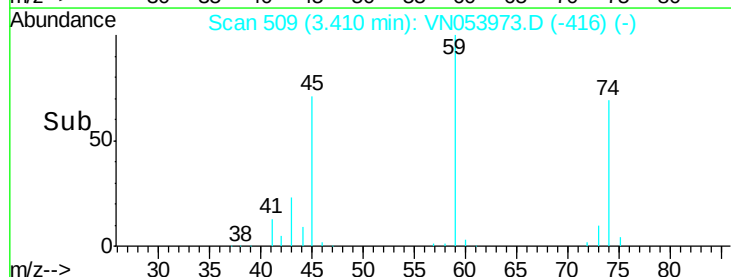
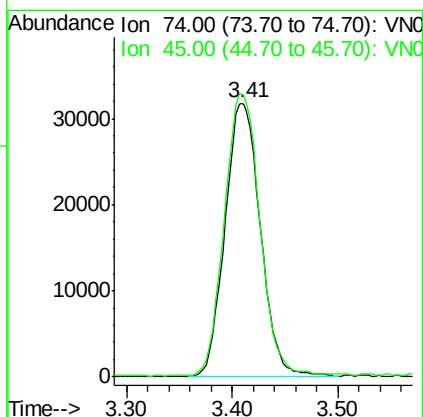
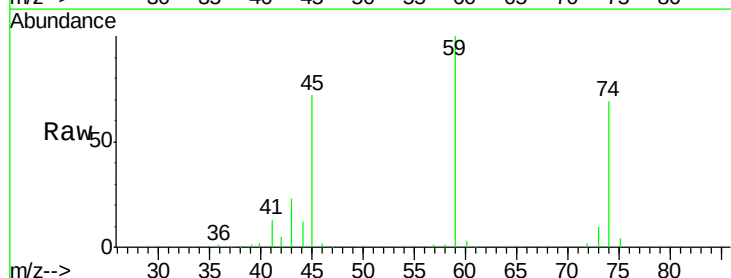
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2/28/2019 2:55:33 PM

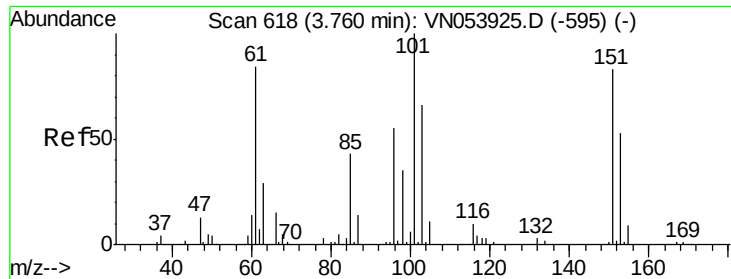


#8

Diethyl Ether
Concen: 18.516 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.8	46.9	140.6





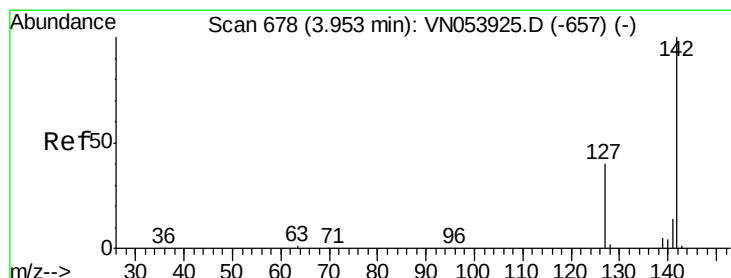
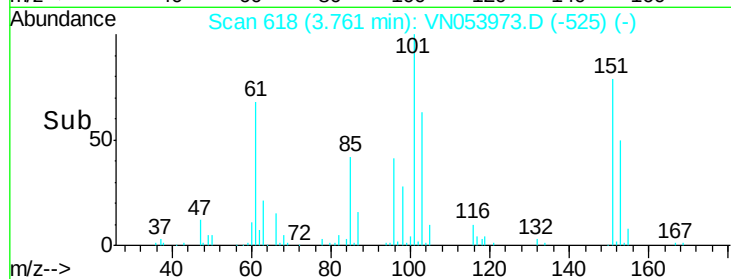
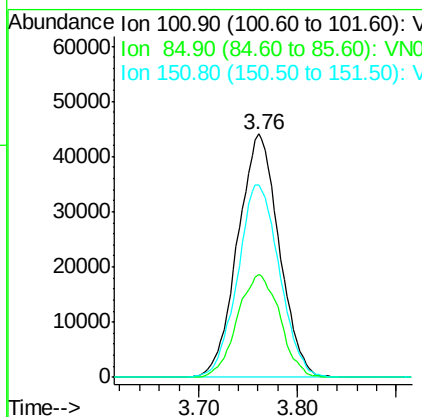
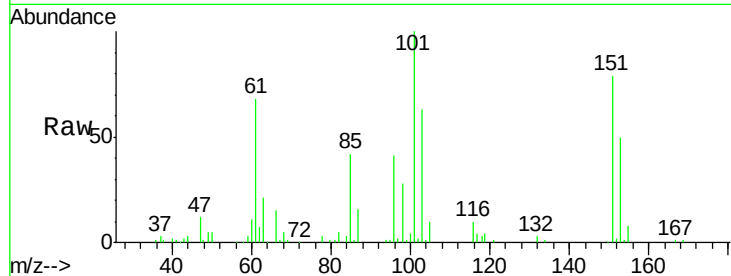
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.051 ug/l
 RT: 3.76 min Scan# 618
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	128054		
85	43.2		32.5	48.7
151	80.0		70.2	105.2

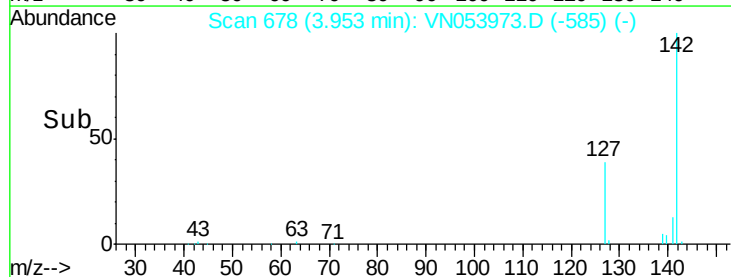
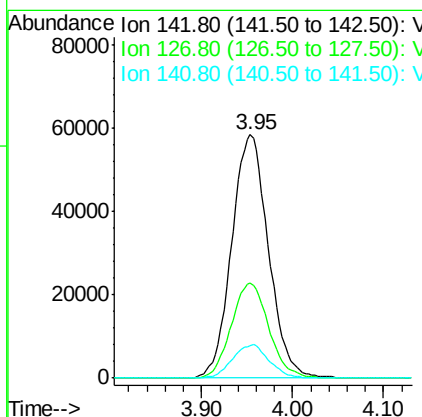
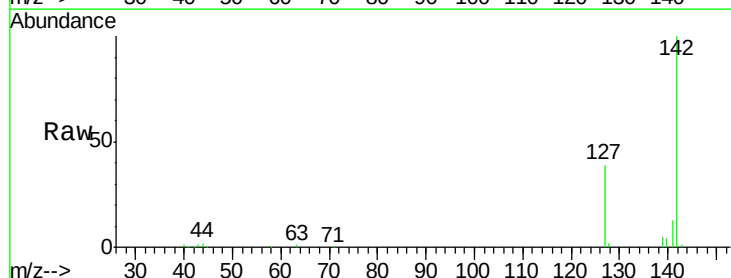
Manual Integrations
 APPROVED

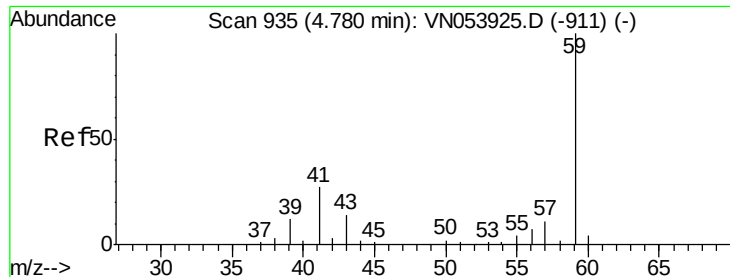
MMDadoda
 2/28/2019 2:55:33 PM



#10
 Methyl Iodide
 Concen: 18.498 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	163381		
127	39.9		31.0	46.4
141	13.7		11.3	16.9





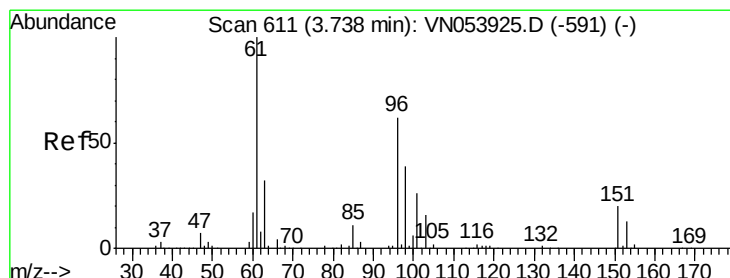
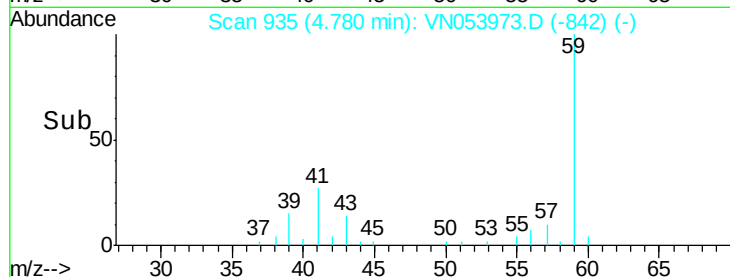
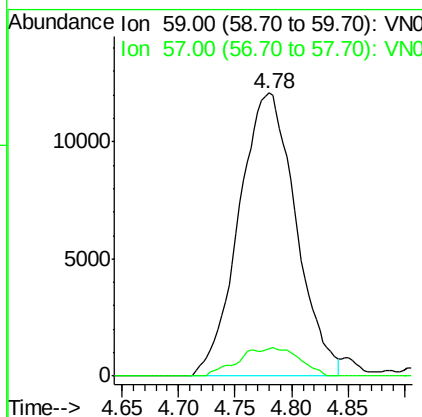
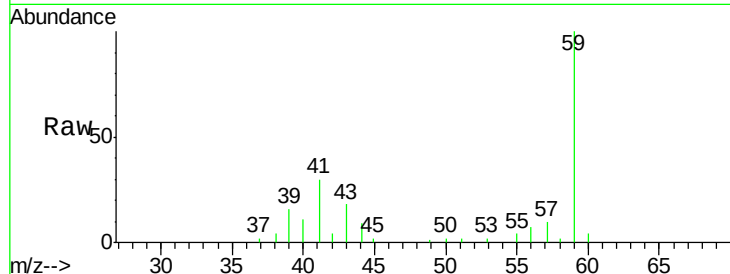
#11
Tert butyl alcohol
Concen: 87.249 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#

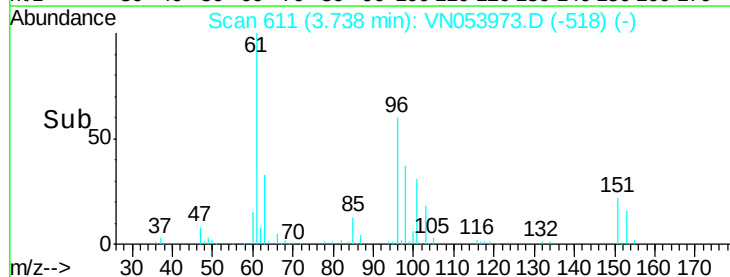
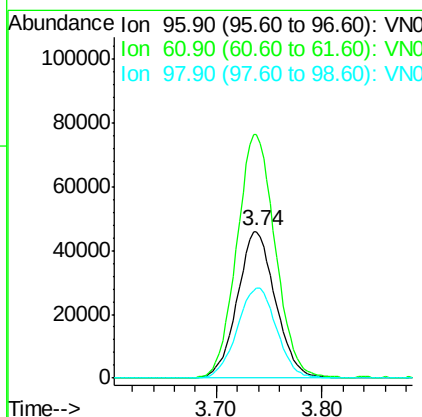
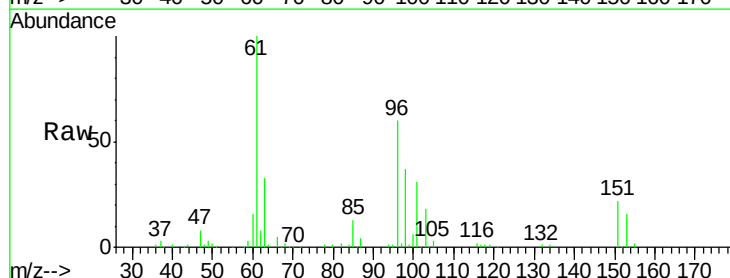
Manual Integrations
APPROVED

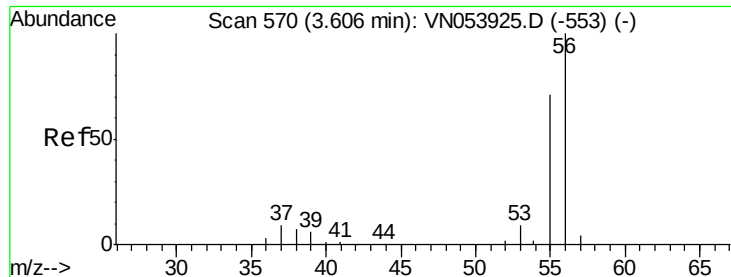
MMDadoda
2/28/2019 2:55:33 PM



#12
1,1-Dichloroethene
Concen: 17.944 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.9	121.0	181.4
98	61.6	52.2	78.2





#13

Acrolein

Concen: 53.156 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 56 Resp: 26637

Ion Ratio Lower Upper

56 100

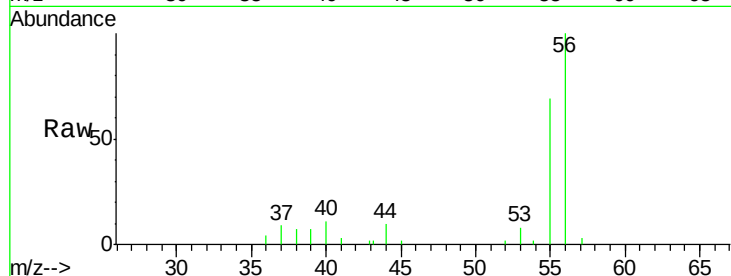
55 70.1 56.3 84.5

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

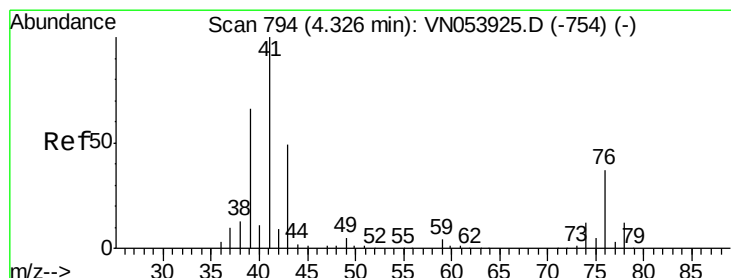
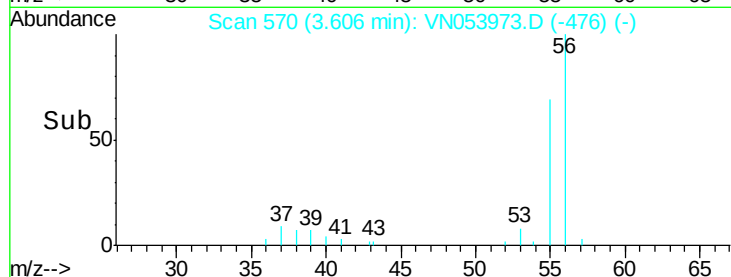
2000

0

Time-->

3.50 3.55 3.60 3.65 3.70

3.61



#14

Allyl chloride

Concen: 19.026 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

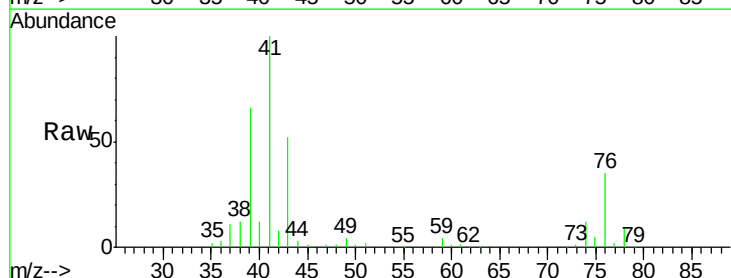
Tgt Ion: 41 Resp: 214548

Ion Ratio Lower Upper

41 100

39 63.7 48.8 73.2

76 33.7 30.9 46.3



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

80000

60000

40000

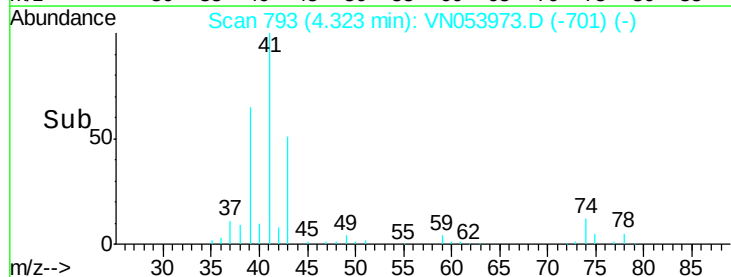
20000

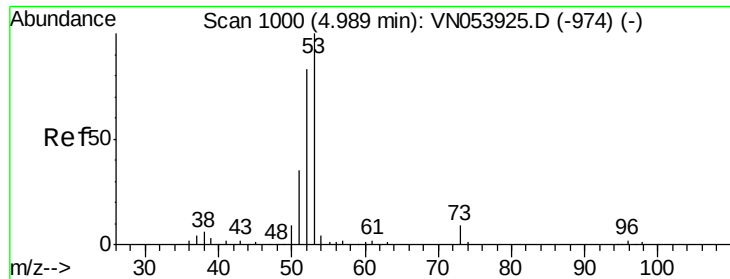
0

Time-->

4.20 4.30 4.40

4.32





#15

Acrylonitrile

Concen: 94.128 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

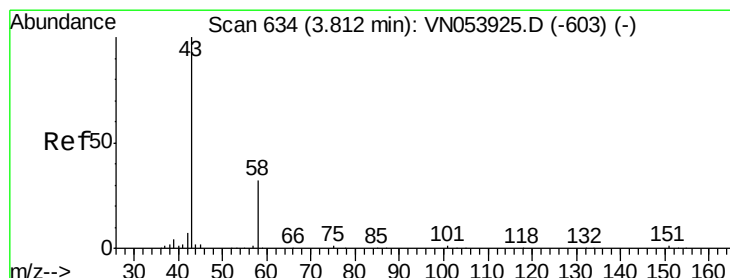
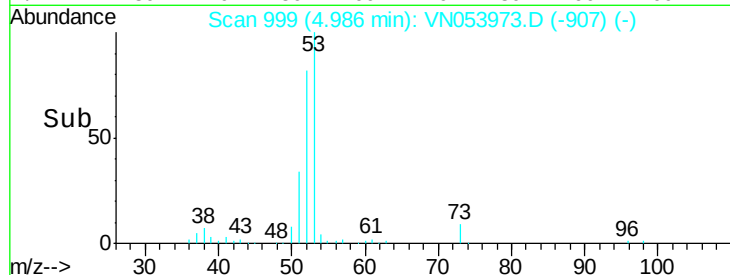
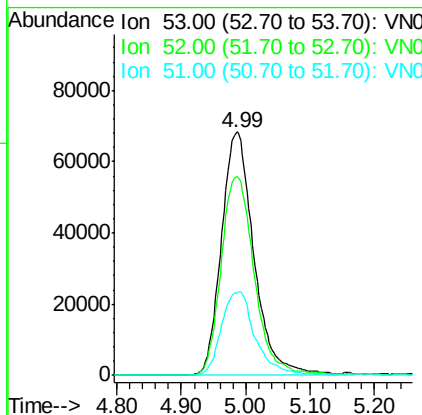
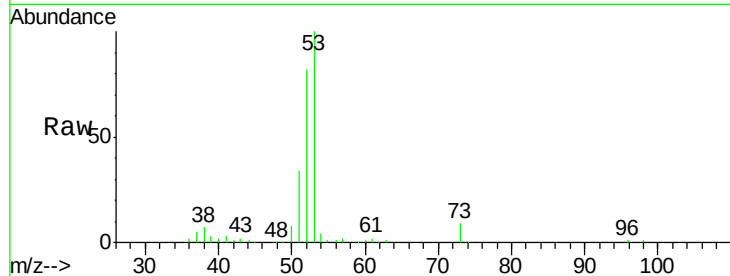
ClientSampleId :

VN0227WBS01

Tot Ion:	53	Resp:	240117
Ion	Ratio	Lower	Upper
53	100		
52	83.1	65.1	97.7
51	35.6	28.2	42.4

Manual Integrations
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#16

Acetone

Concen: 93.942 ug/l

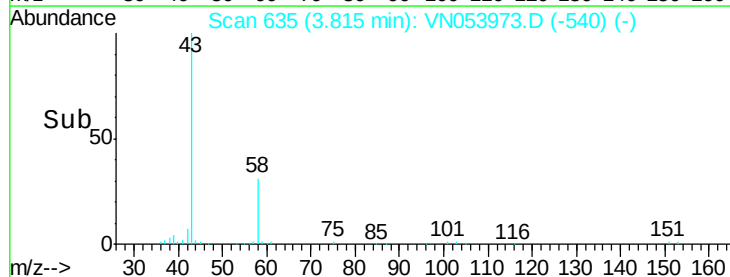
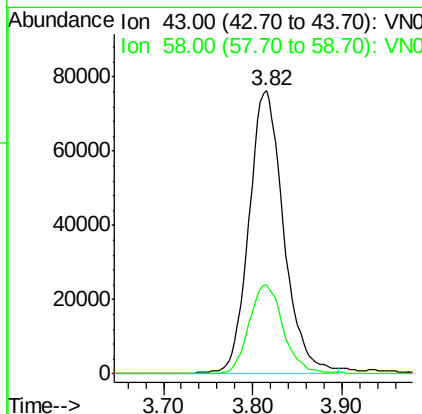
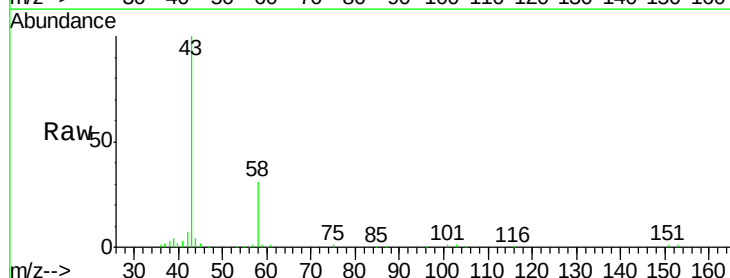
RT: 3.82 min Scan# 635

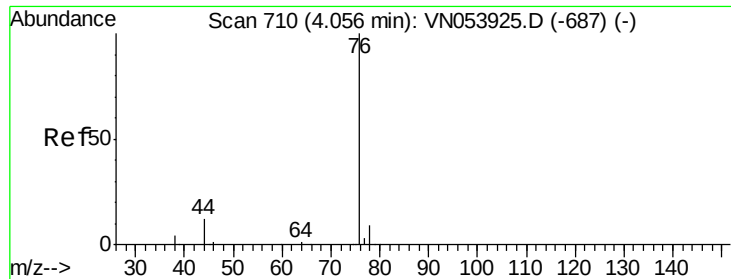
Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Tgt Ion:	43	Resp:	205199
Ion	Ratio	Lower	Upper
43	100		
58	31.3	27.6	41.4





#17

Carbon Disulfide

Concen: 17.352 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 76 Resp: 359913

Ion Ratio Lower Upper

76 100

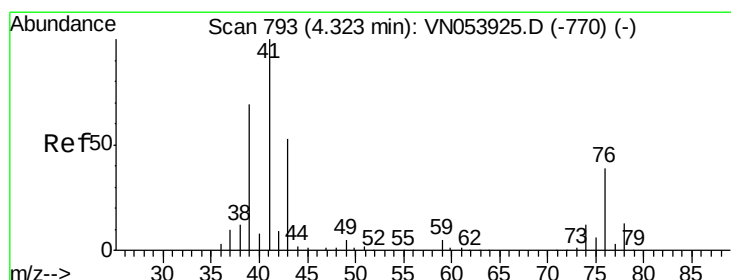
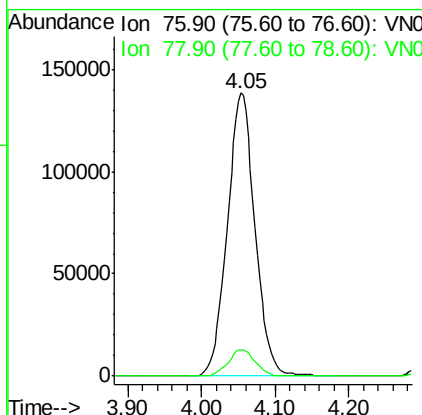
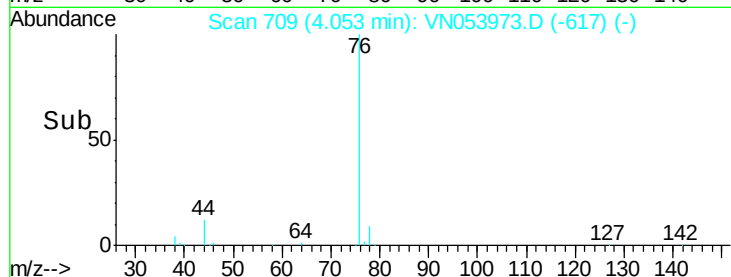
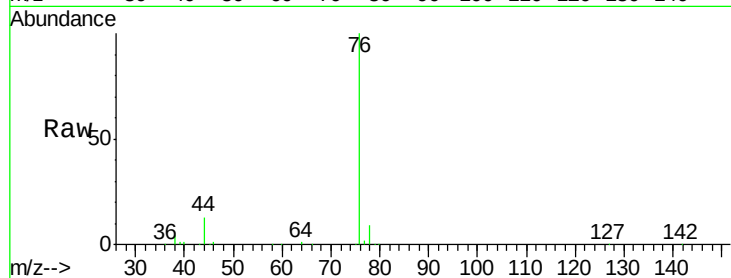
78 9.4 7.5 11.3

Manual Integrations

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#18

Methyl Acetate

Concen: 19.499 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN053973.D

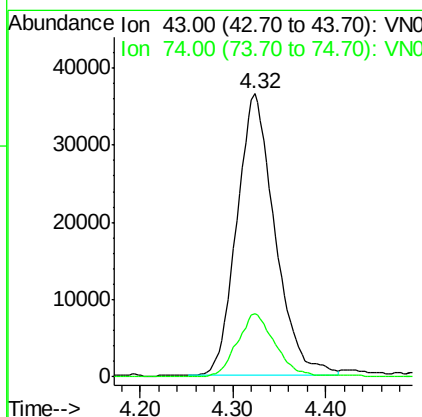
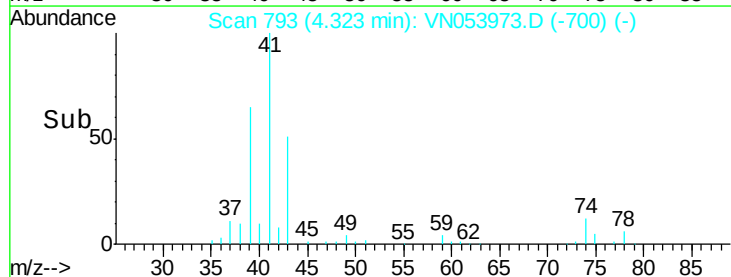
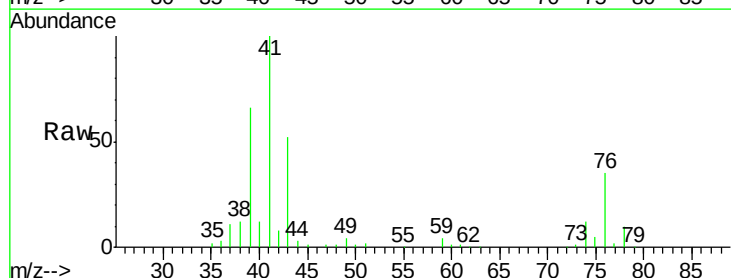
Acq: 27 Feb 2019 17:30

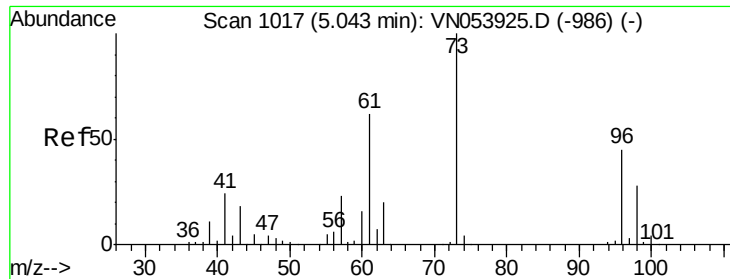
Tgt Ion: 43 Resp: 104097

Ion Ratio Lower Upper

43 100

74 22.1 20.5 30.7





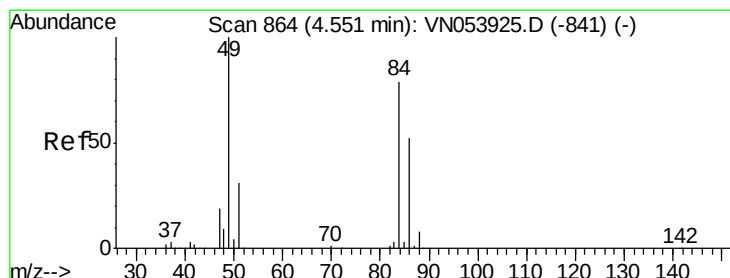
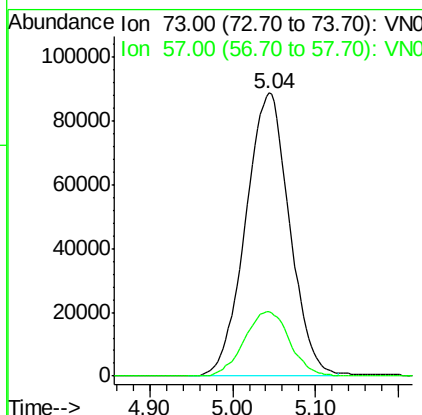
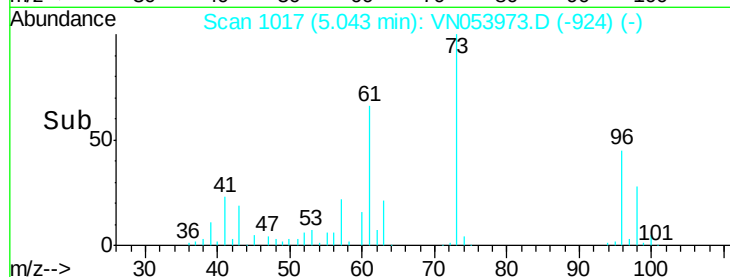
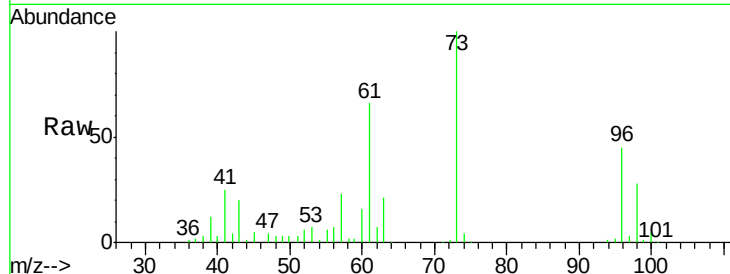
#19
Methyl tert-butyl Ether
Concen: 18.995 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion: 73 Resp: 327629
Ion Ratio Lower Upper
73 100
57 22.9 18.0 27.0

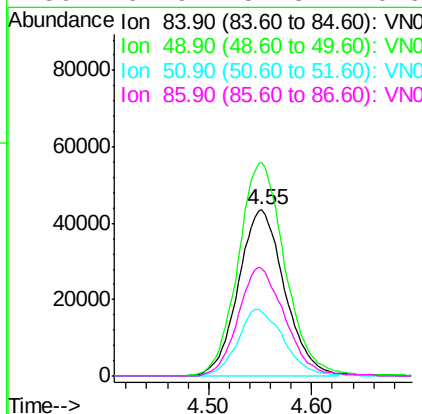
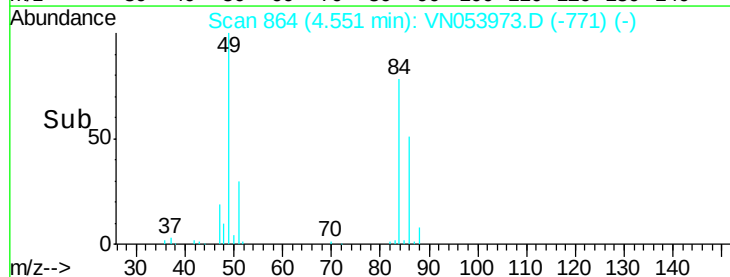
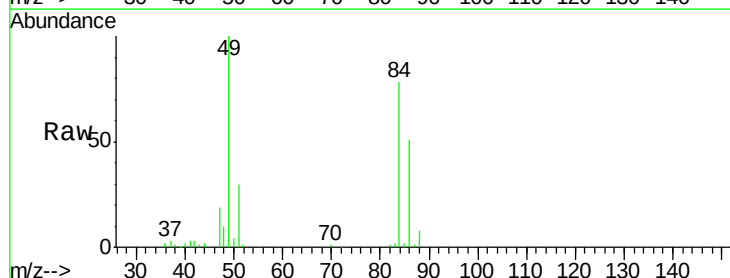
Manual Integrations
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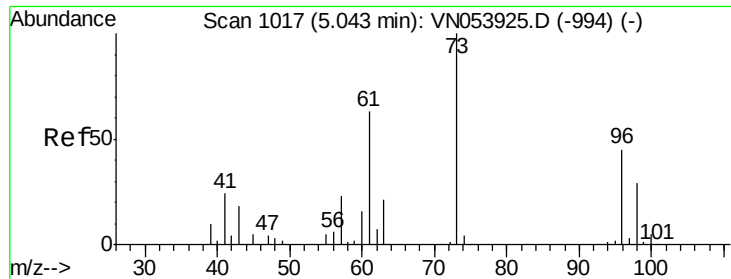
MMDadoda
2/28/2019 2:55:33 PM



#20
Methylene Chloride
Concen: 17.958 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion: 84 Resp: 135699
Ion Ratio Lower Upper
84 100
49 128.0 89.7 134.5
51 38.7 27.8 41.8
86 64.9 51.3 76.9





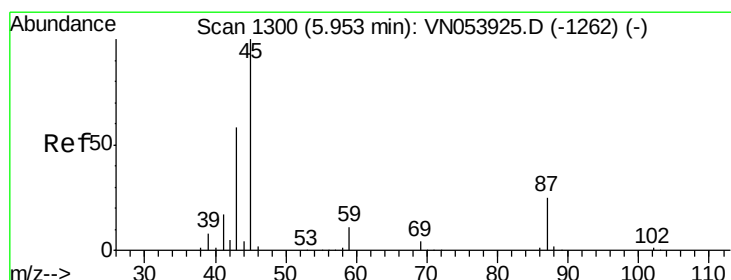
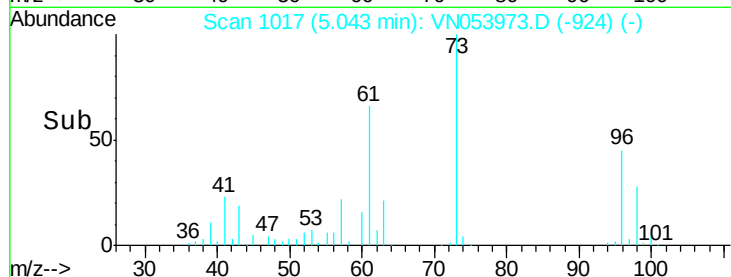
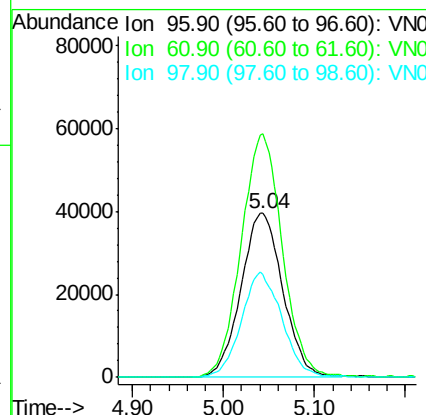
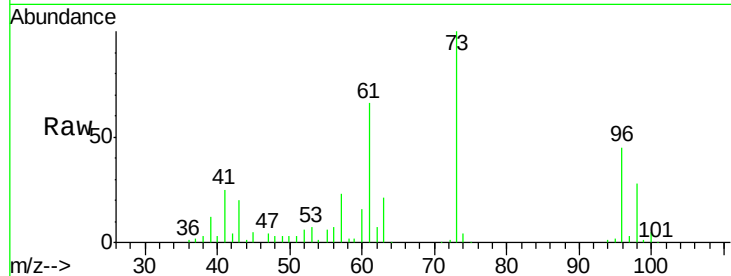
#21
trans-1,2-Dichloroethene
Concen: 18.191 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.4	104.5	156.7
98	62.5	50.6	76.0

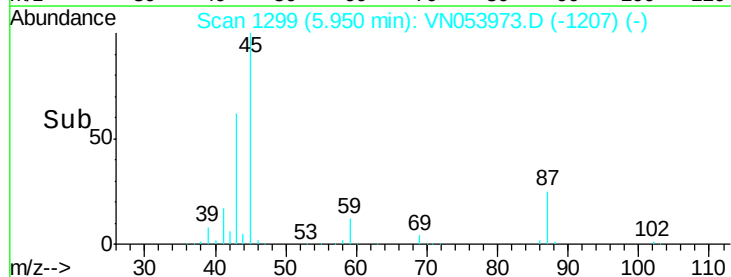
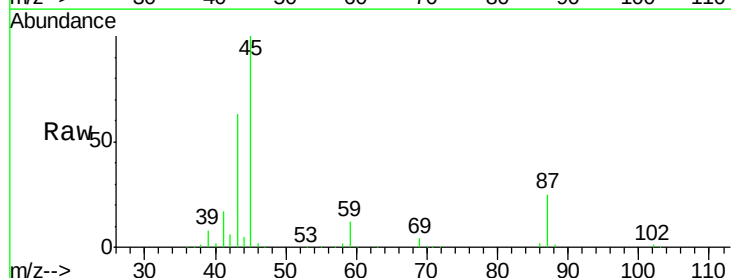
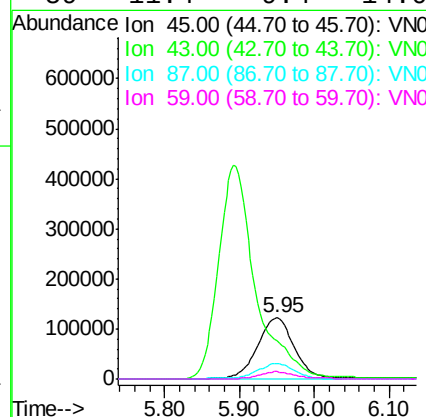
Manual Integrations
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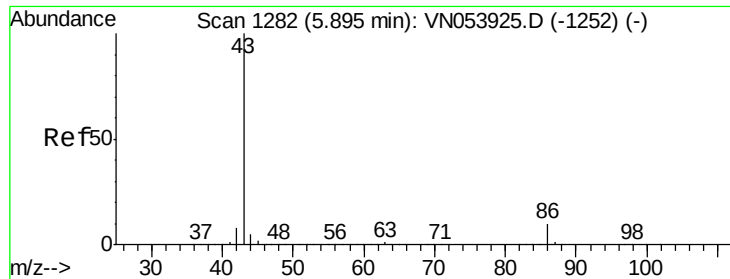
MMDadoda
2/28/2019 2:55:33 PM



#22
Diisopropyl ether
Concen: 19.310 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.0	46.2	69.4
87	24.5	23.4	35.0
59	11.4	9.4	14.0





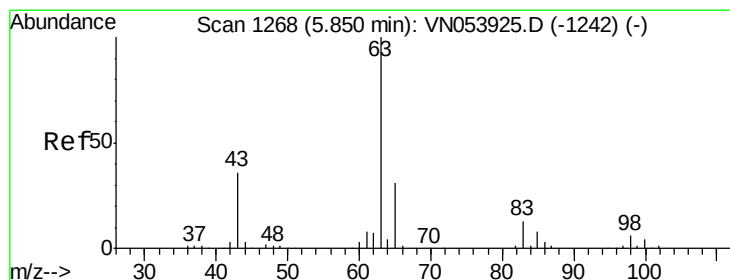
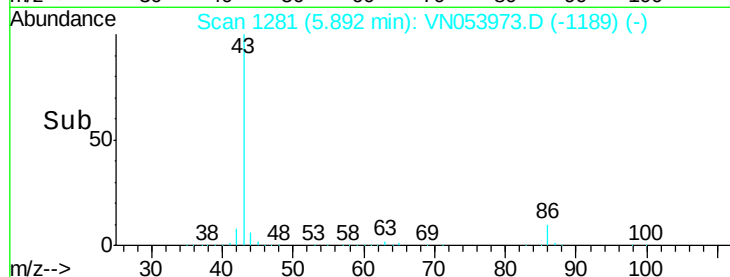
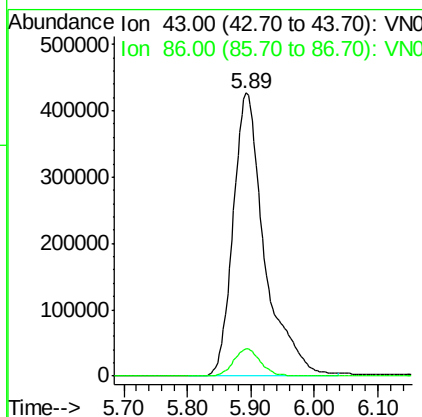
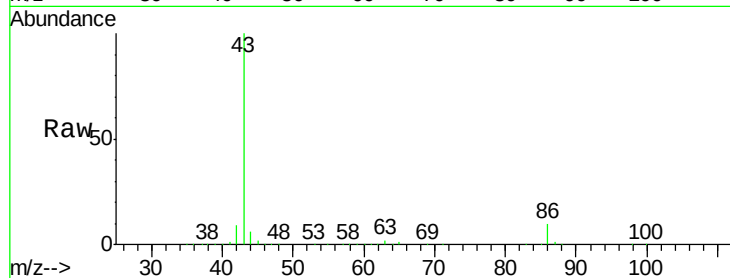
#23
 Vinyl Acetate
 Concen: 93.883 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion: 43 Resp: 1469300
 Ion Ratio Lower Upper
 43 100
 86 9.9 9.1 13.7

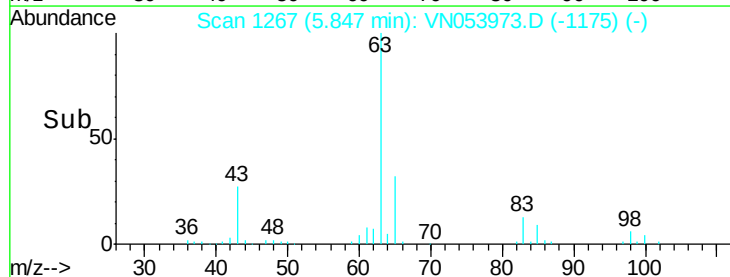
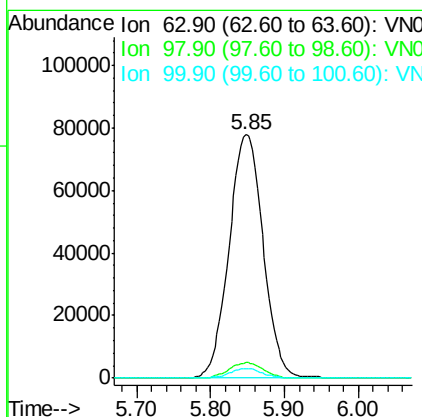
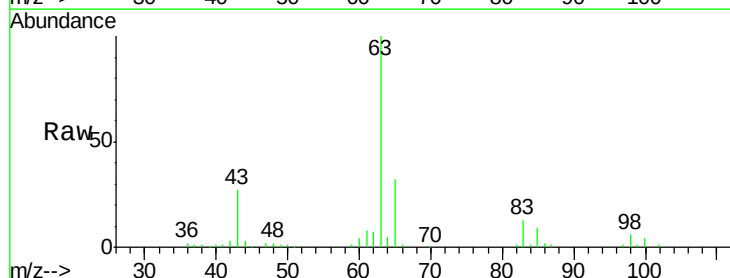
Manual Integrations
 APPROVED

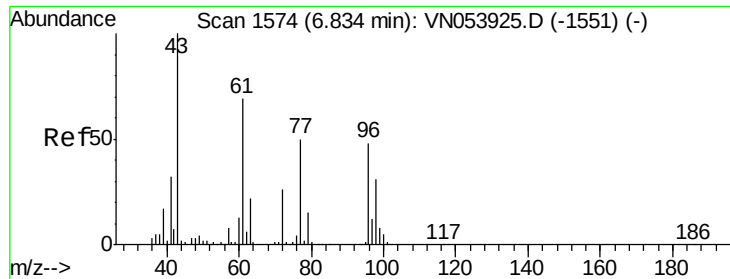
MMDadoda
 2/28/2019 2:55:33 PM



#24
 1,1-Dichloroethane
 Concen: 18.822 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion: 63 Resp: 251105
 Ion Ratio Lower Upper
 63 100
 98 6.3 3.4 10.2
 100 4.0 2.2 6.6





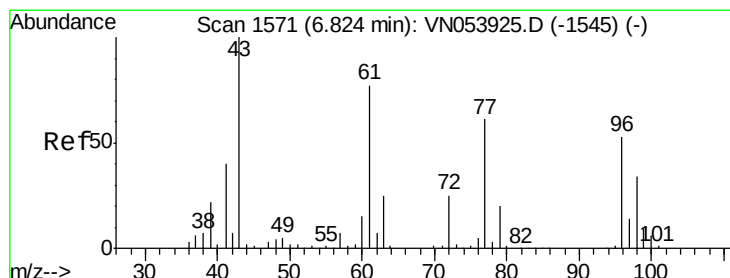
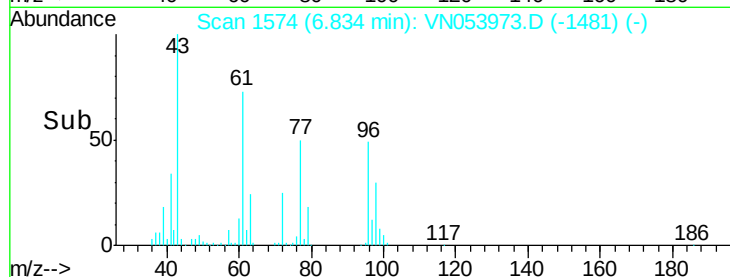
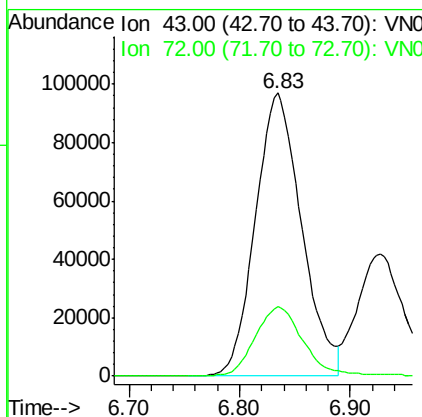
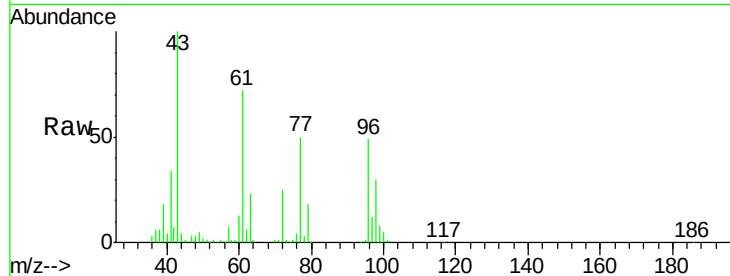
#25
2-Butanone
Concen: 93.395 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion: 43 Resp: 279983
Ion Ratio Lower Upper
43 100
72 24.6 22.1 33.1

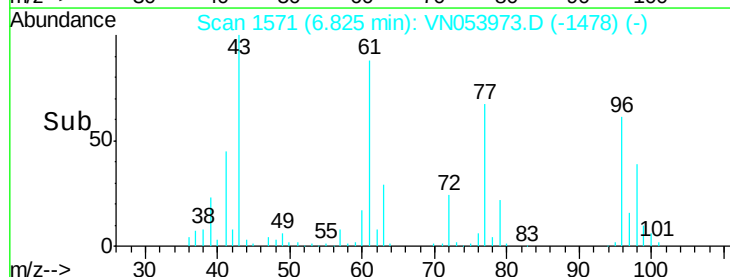
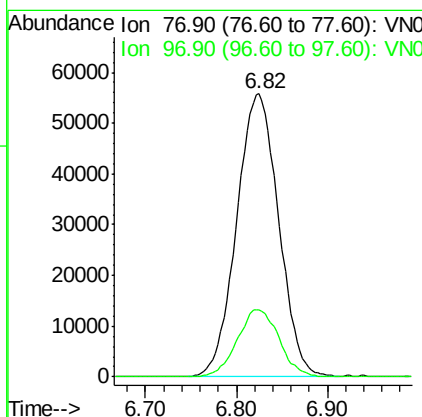
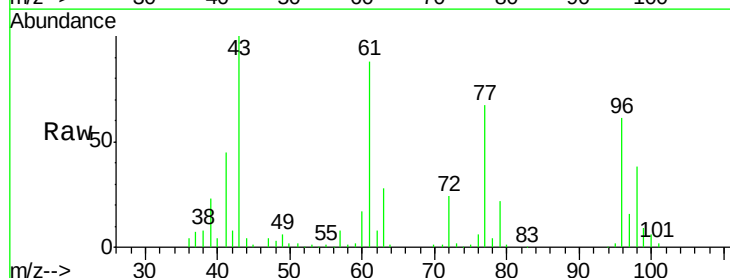
Manual Integrations
APPROVED

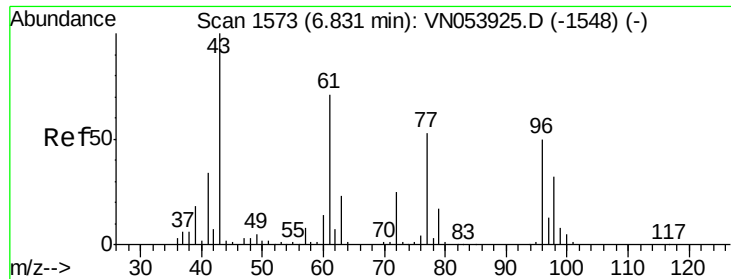
MMDadoda
2/28/2019 2:55:33 PM



#26
2,2-Dichloropropane
Concen: 18.848 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion: 77 Resp: 178651
Ion Ratio Lower Upper
77 100
97 23.7 12.3 36.9





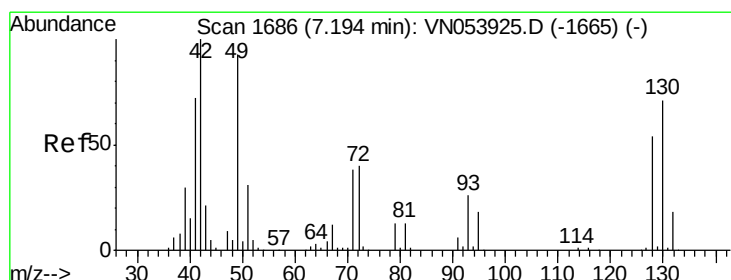
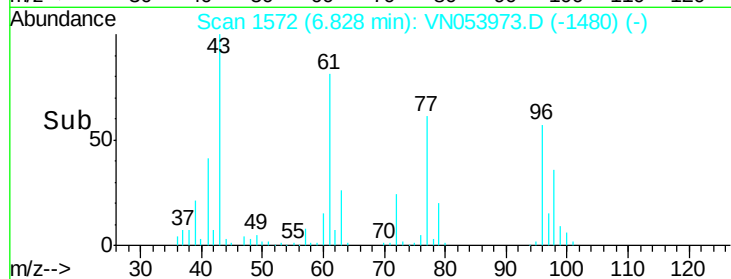
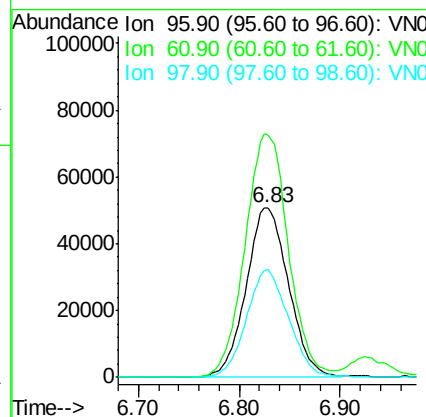
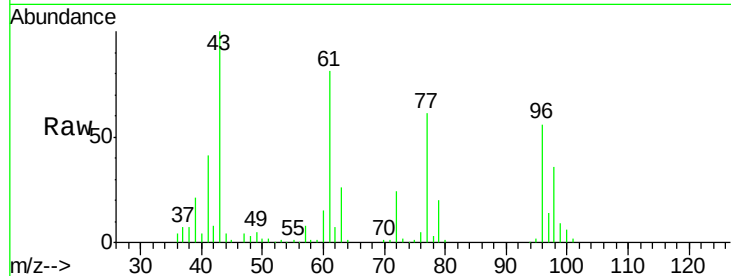
#27
 cis-1,2-Dichloroethene
 Concen: 19.134 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	146.5	0.0	275.6	
98	63.3	0.0	130.0	

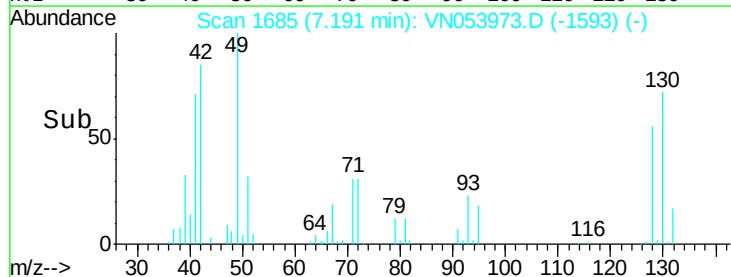
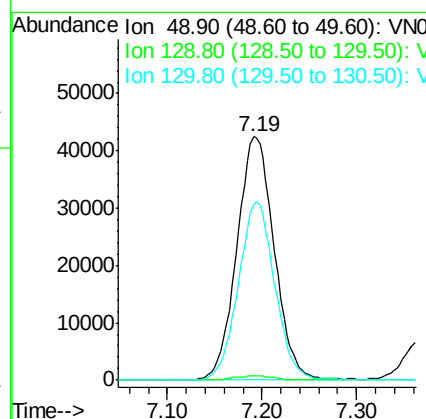
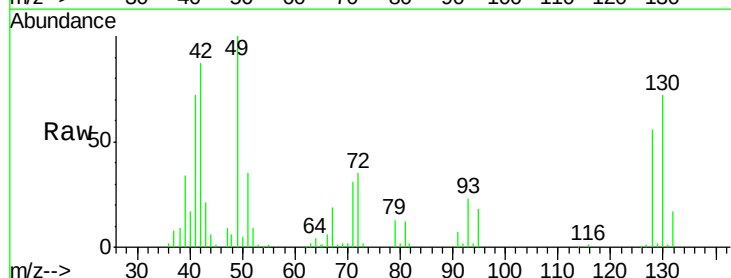
Manual Integrations
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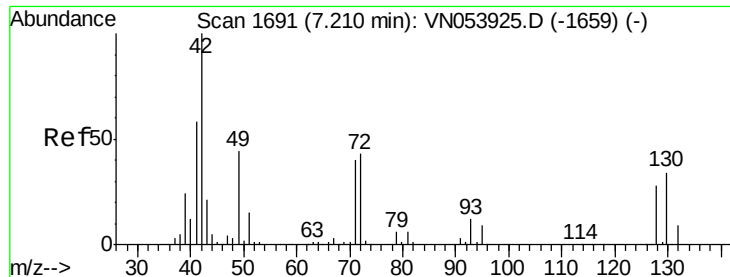
MMDadoda
 2/28/2019 2:55:33 PM



#28
 Bromochloromethane
 Concen: 19.096 ug/l
 RT: 7.19 min Scan# 1685
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.7	0.0	4.6	
130	71.0	72.9	109.3	





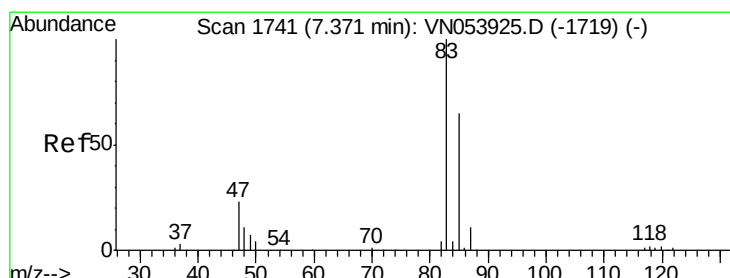
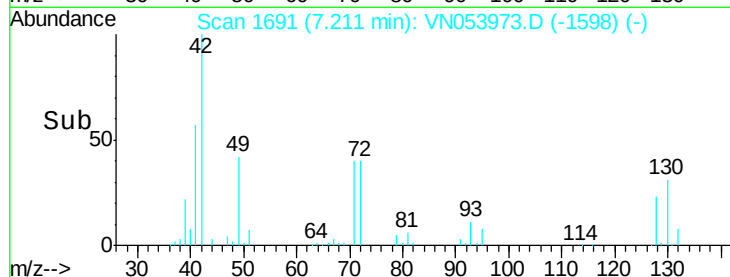
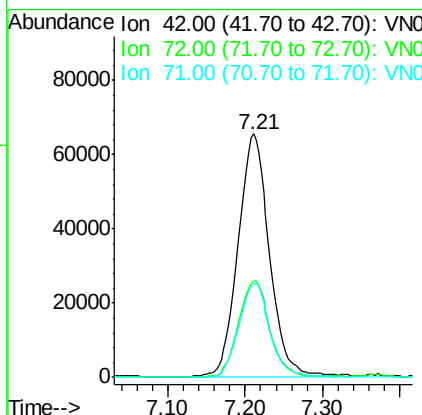
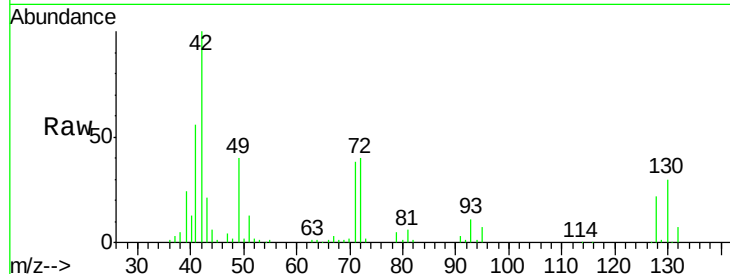
#29
Tetrahydrofuran
Concen: 91.736 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.3	36.9	55.3
71	38.3	34.6	52.0

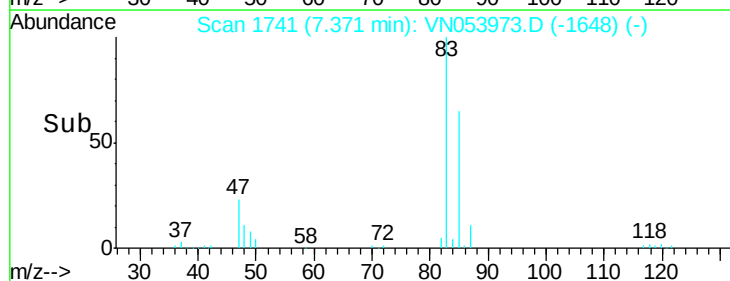
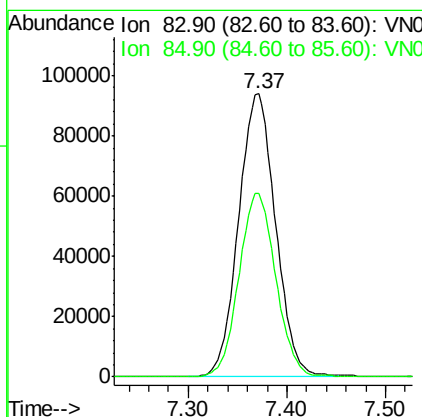
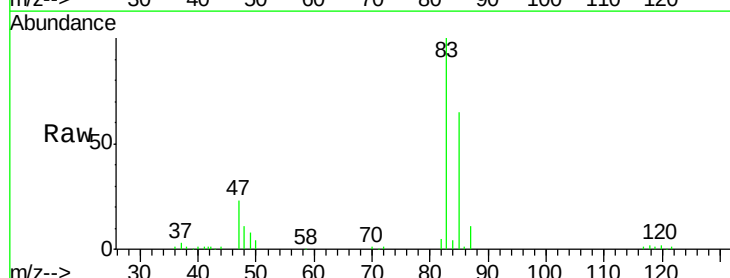
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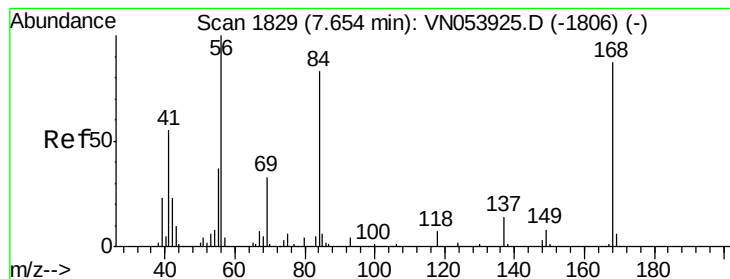
MMDadoda
2/28/2019 2:55:33 PM



#30
Chloroform
Concen: 18.866 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.6	78.8





#31

Cyclohexane

Concen: 19.268 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

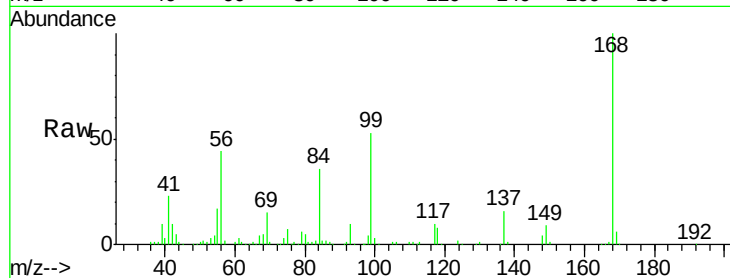
ClientSampleId :

VN0227WBS01

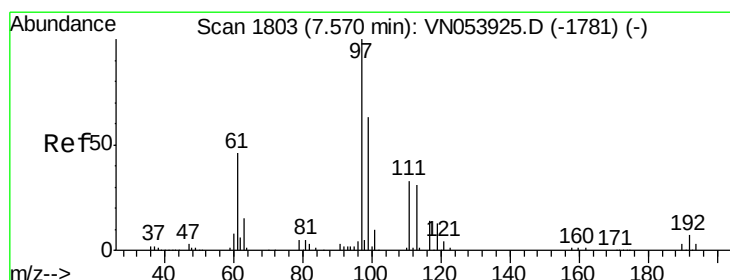
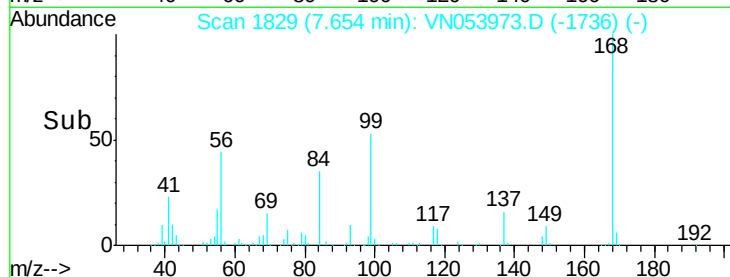
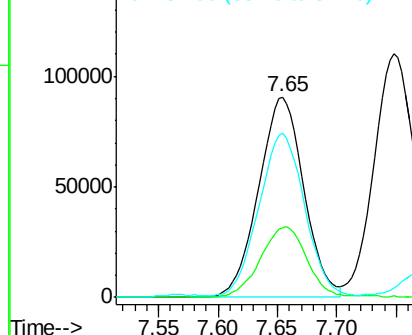
Tot Ion:	56	Resp:	238328
Ion Ratio	Lower	Upper	
56	100		
69	35.0	26.0	39.0
84	80.8	69.1	103.7

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 18.693 ug/l

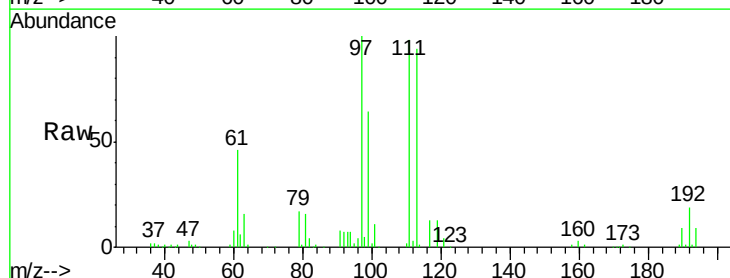
RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

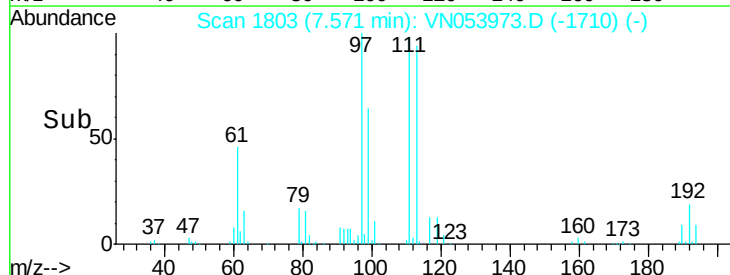
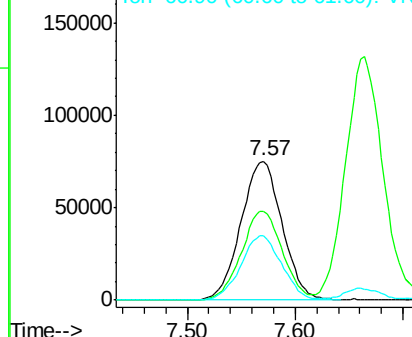
Lab File: VN053973.D

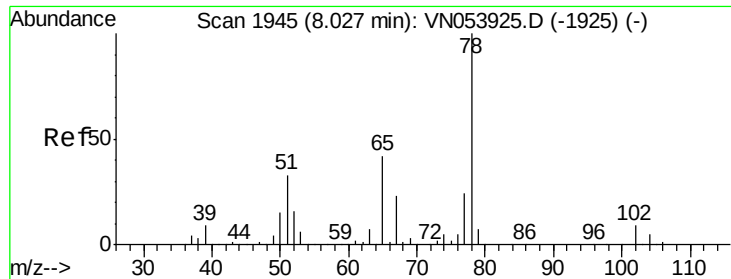
Acq: 27 Feb 2019 17:30

Tgt Ion:	97	Resp:	199391
Ion Ratio	Lower	Upper	
97	100		
99	63.6	51.8	77.8
61	46.2	33.2	49.8



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





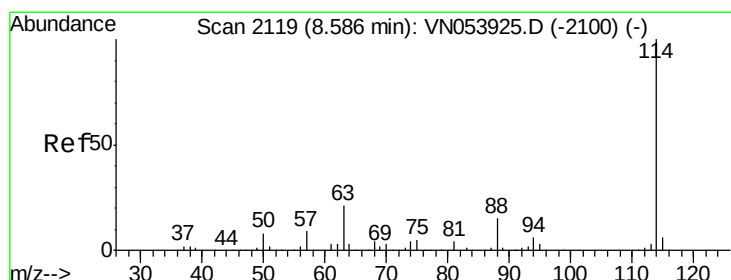
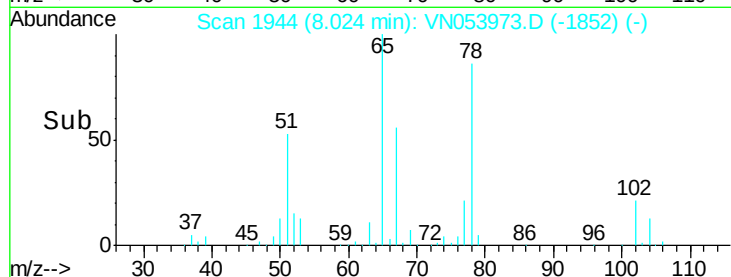
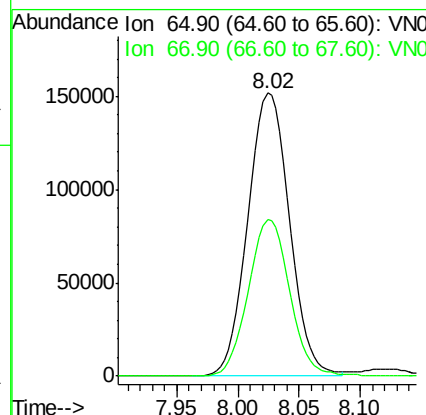
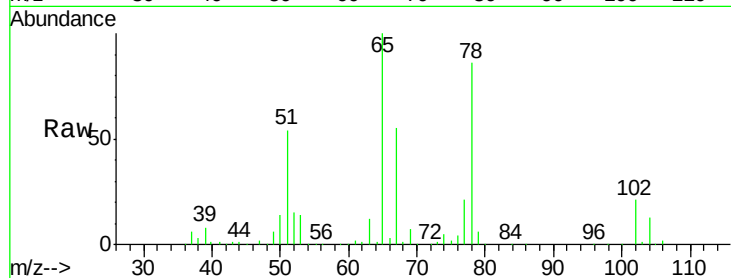
#33
 1,2-Dichloroethane-d4
 Concen: 47.066 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.0	0.0	111.8	

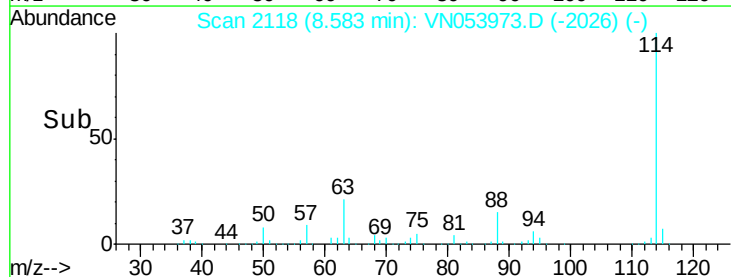
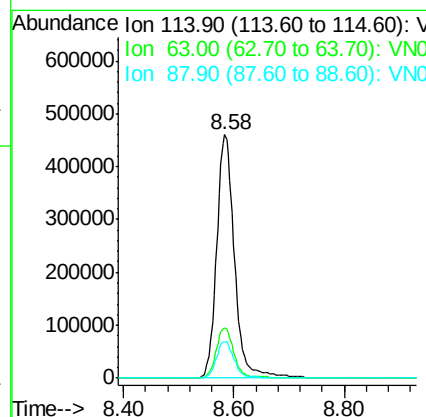
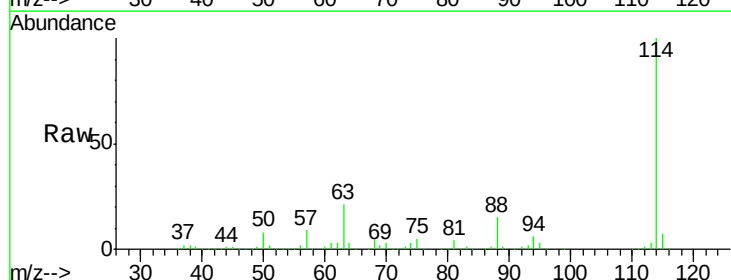
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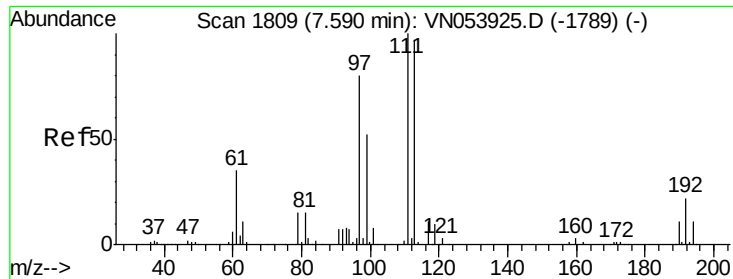
MMDadoda
 2/28/2019 2:55:33 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.7	0.0	37.4	
88	15.1	0.0	30.4	





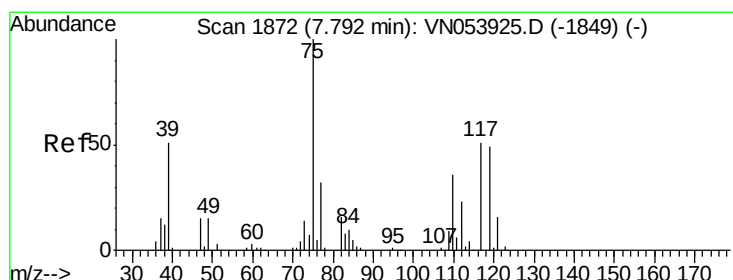
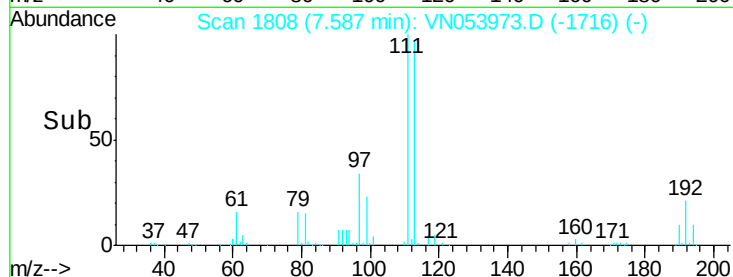
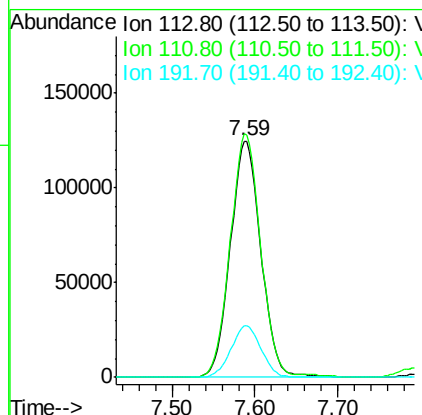
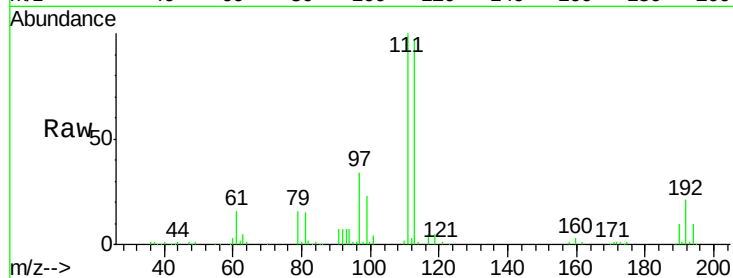
#35
 Dibromofluoromethane
 Concen: 48.066 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	320264		
111	101.9	81.1	121.7	
192	21.5	18.8	28.2	

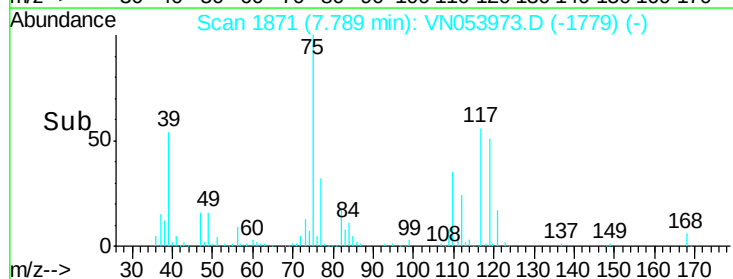
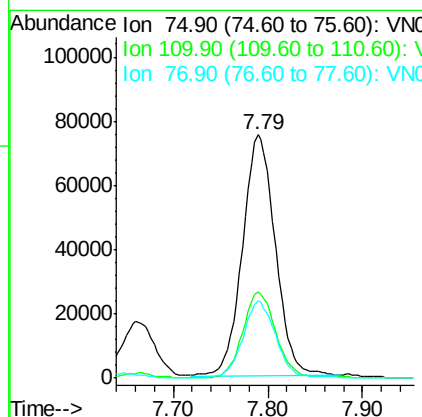
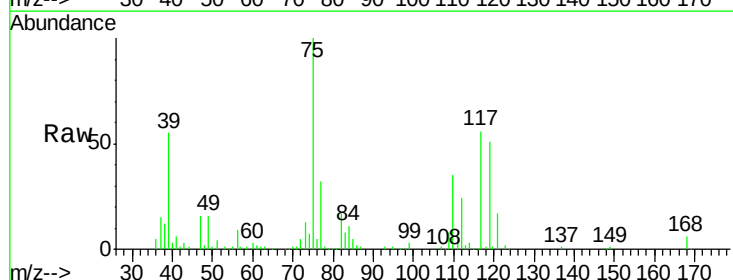
Manual Integrations
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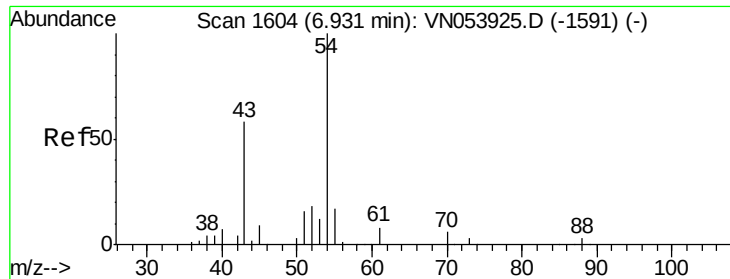
MMDadoda
 2/28/2019 2:55:33 PM



#36
 1,1-Dichloropropene
 Concen: 18.980 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	181870		
110	35.8	19.0	57.0	
77	32.0	25.4	38.0	





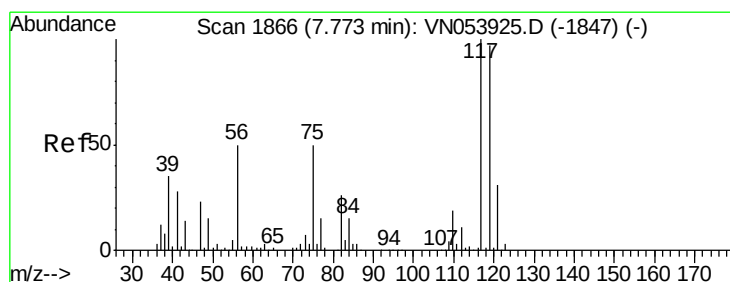
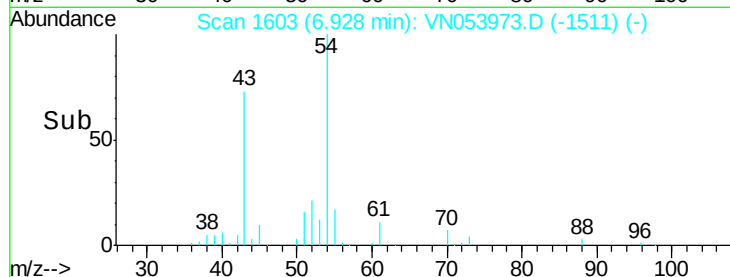
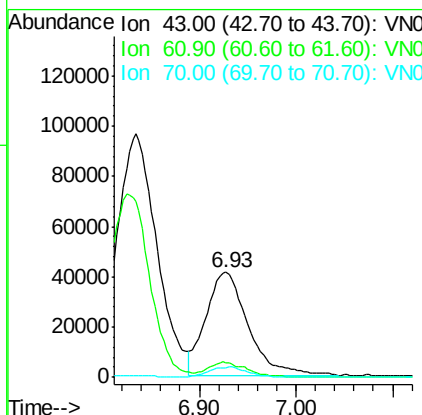
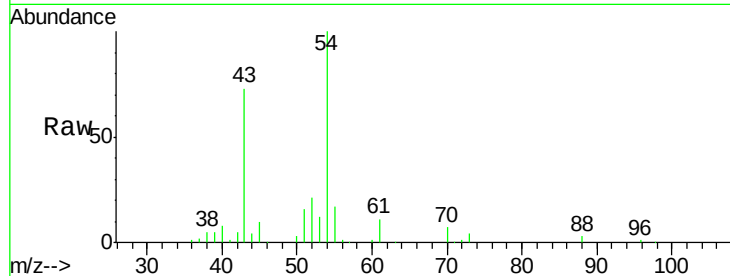
#37
Ethyl Acetate
Concen: 18.335 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	43	61	70
Resp	125449		
Ratio	100	13.1	9.4
Lower		12.0	8.7
Upper		18.0	13.1

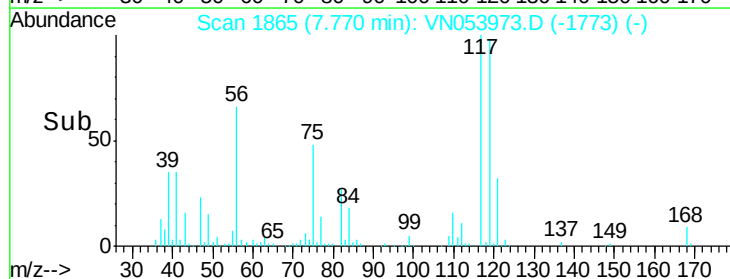
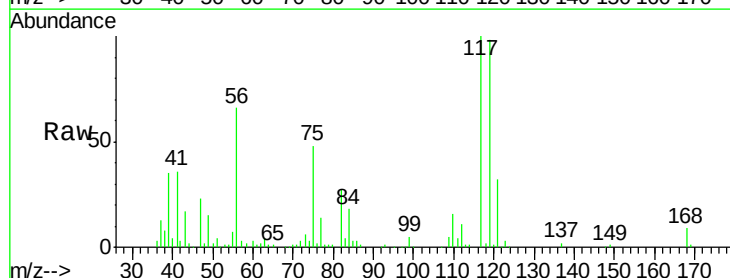
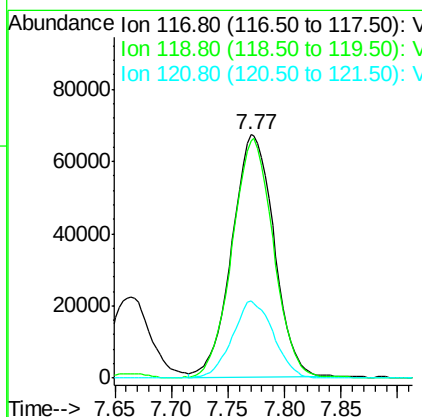
Manual Integrations
APPROVED

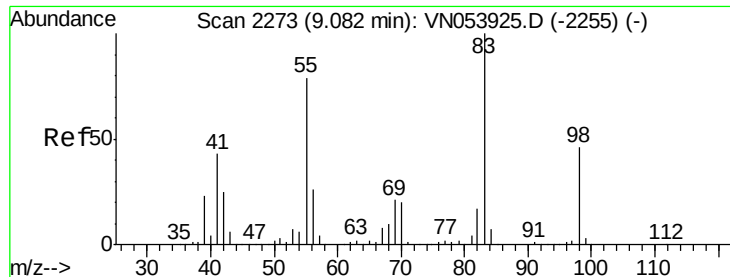
MMDadoda
2/28/2019 2:55:33 PM



#38
Carbon Tetrachloride
Concen: 17.392 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	117	119	121
Resp	173327		
Ratio	100	97.9	31.9
Lower		76.2	24.6
Upper		114.2	36.8





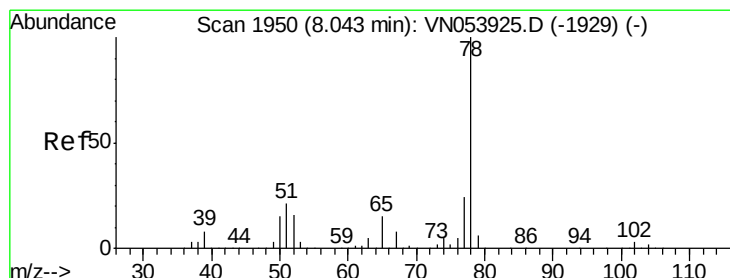
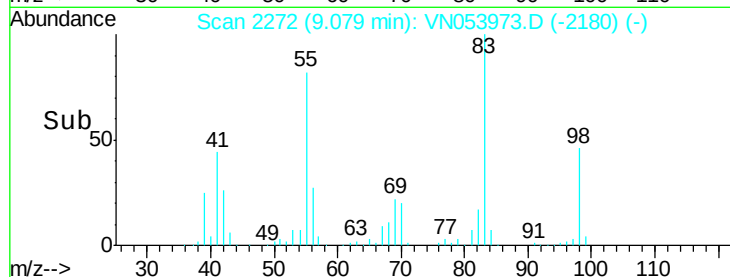
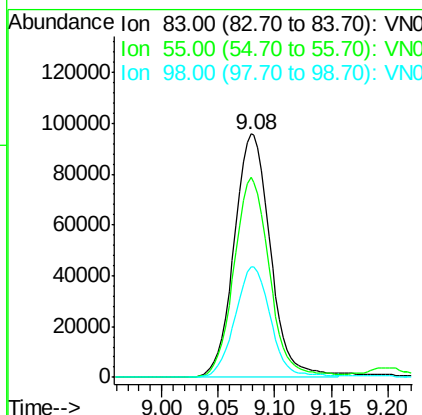
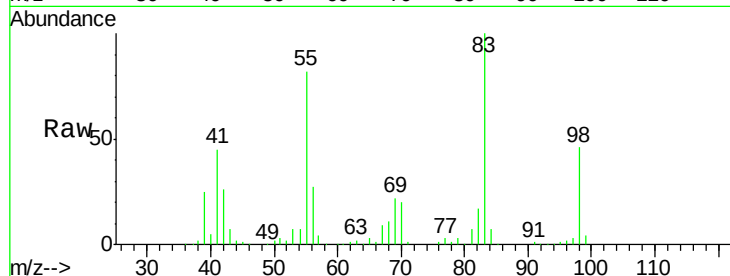
#39
Methylvlcyclohexane
Concen: 18.523 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	83	Resp	213922
Ion Ratio	Lower	Upper	
83	100		
55	82.1	58.2	87.4
98	45.5	37.2	55.8

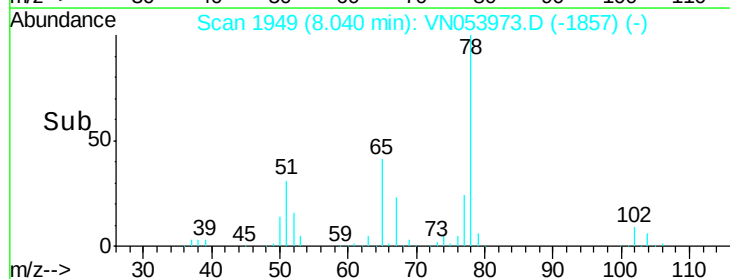
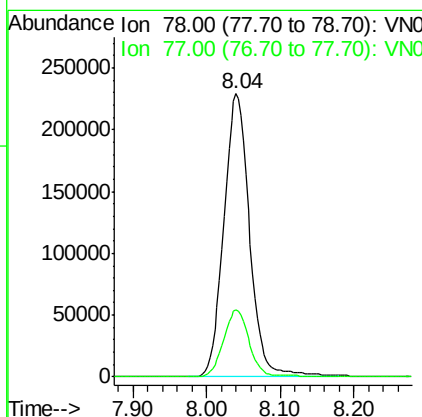
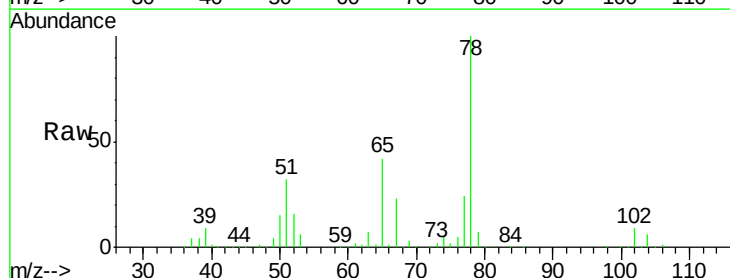
Manual Integrations
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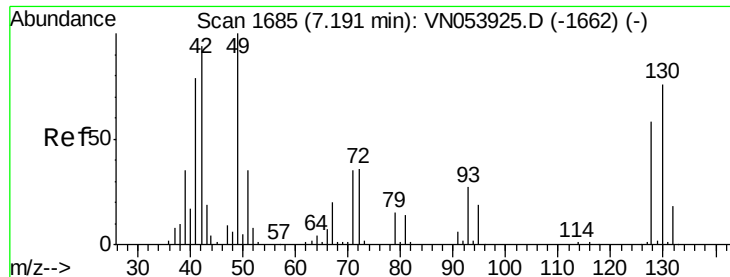
MMDadoda
2/28/2019 2:55:33 PM



#40
Benzene
Concen: 18.968 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	78	Resp	558354
Ion Ratio	Lower	Upper	
78	100		
77	23.8	18.8	28.2





#41

Methacrylonitrile

Concen: 17.565 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. -0.01 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 41 Resp: 77383

Ion Ratio Lower Upper

41 100

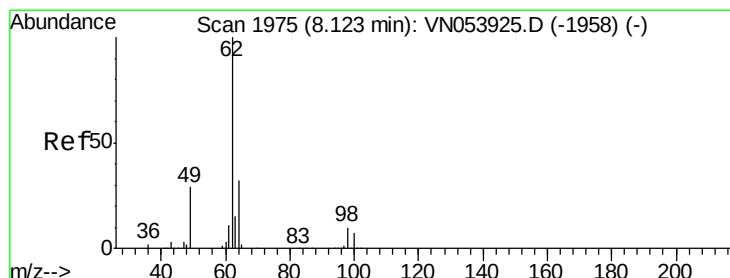
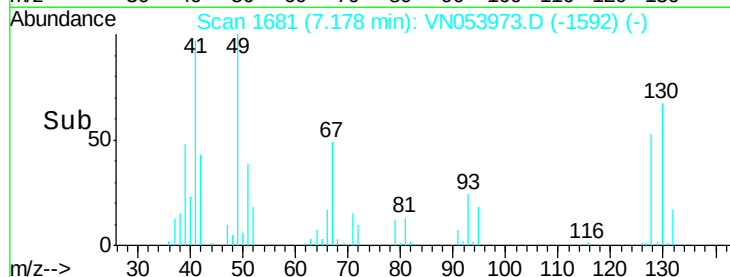
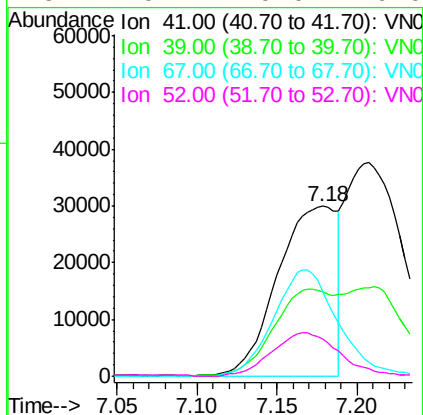
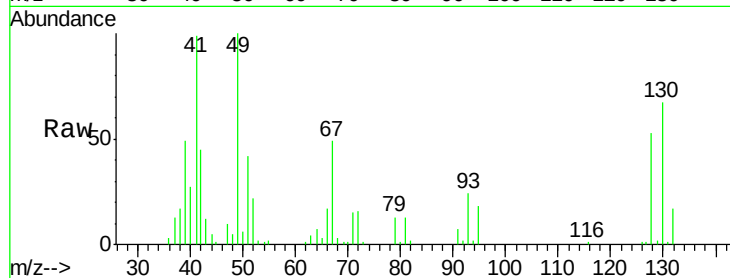
39 49.4 0.0 0.0#

67 67.7 0.0 0.0#

52 29.2 0.0 0.0#

Manual Integrations
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MMDadoda
2/28/2019 2:55:33 PM



#42

1,2-Dichloroethane

Concen: 19.281 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VN053973.D

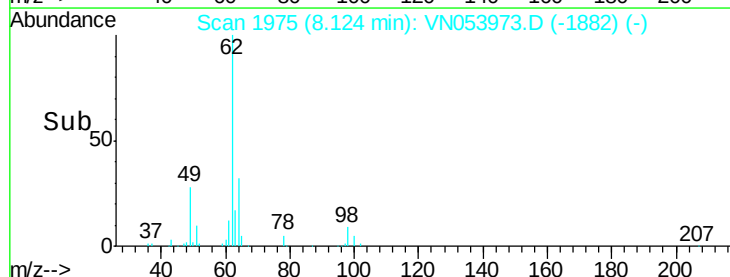
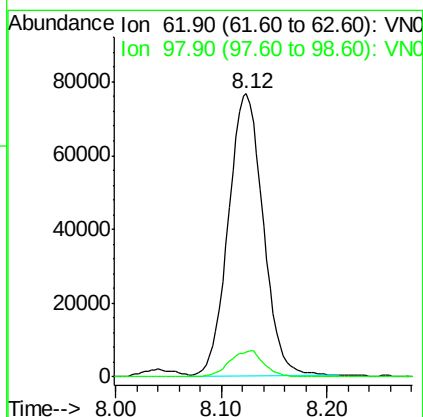
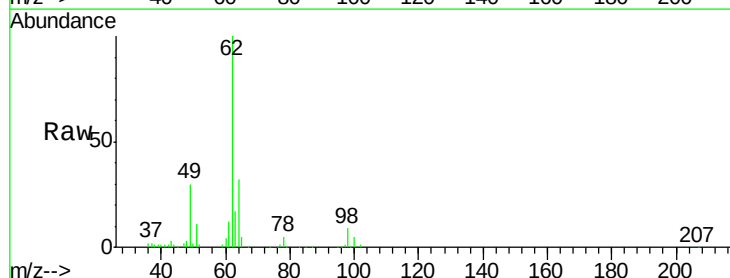
Acq: 27 Feb 2019 17:30

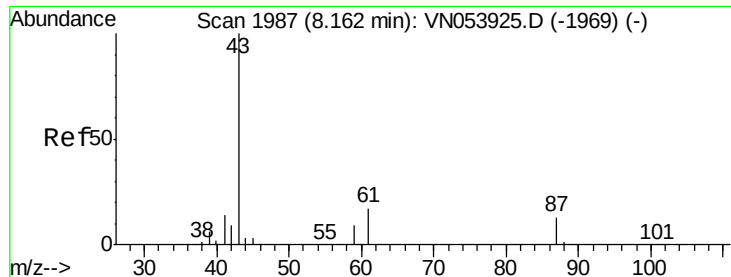
Tgt Ion: 62 Resp: 175712

Ion Ratio Lower Upper

62 100

98 9.0 0.0 20.8





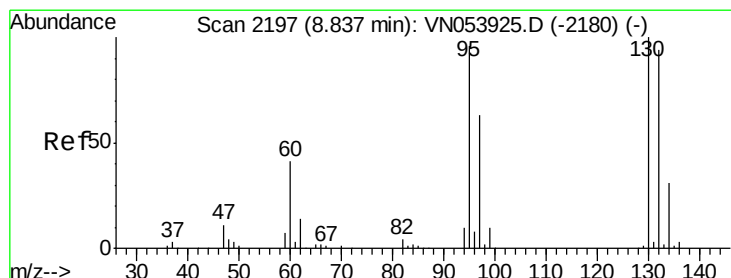
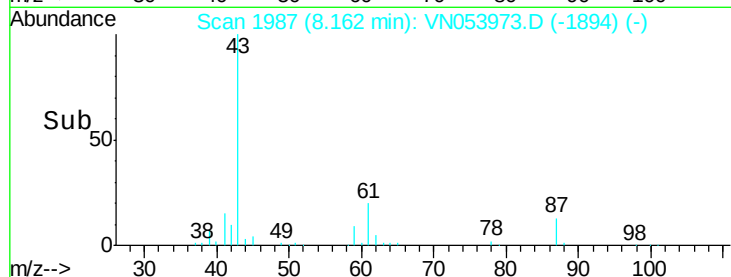
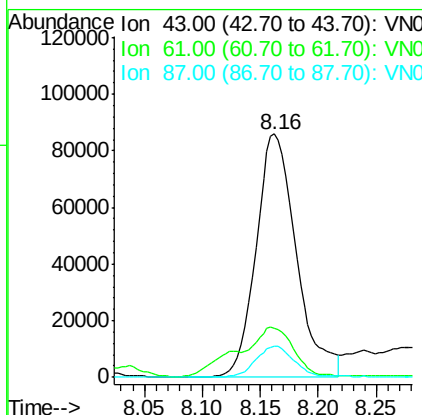
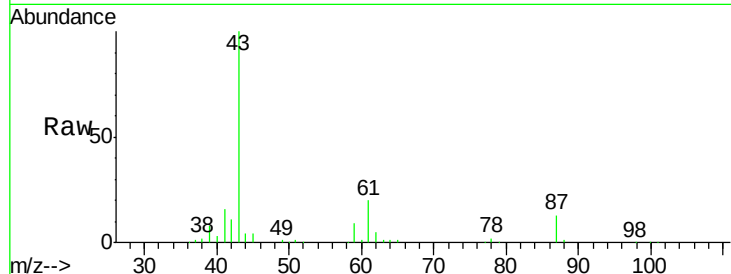
#43
Isopropyl Acetate
Concen: 17.910 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.9	17.4	26.0
87	12.0	11.5	17.3

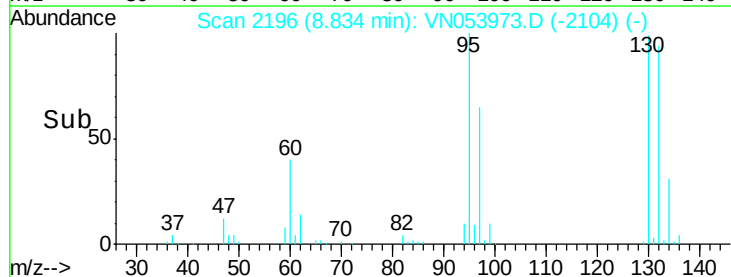
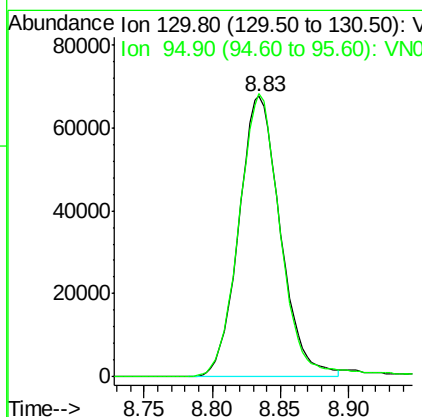
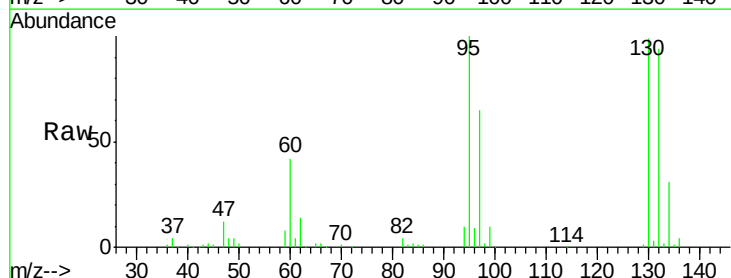
Manual Integrations
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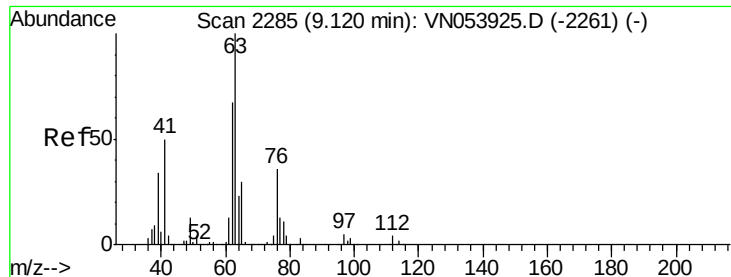
MMDadoda
2/28/2019 2:55:33 PM



#44
Trichloroethene
Concen: 18.302 ug/l
RT: 8.83 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	190.0





#45

1,2-Dichloropropane

Concen: 19.208 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 63 Resp: 152549

Ion Ratio Lower Upper

63 100

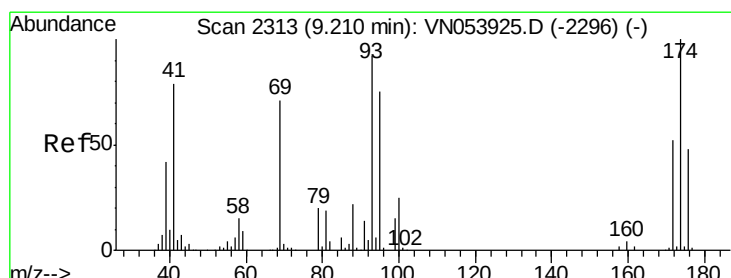
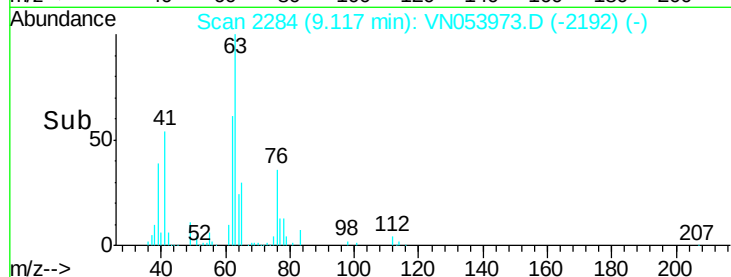
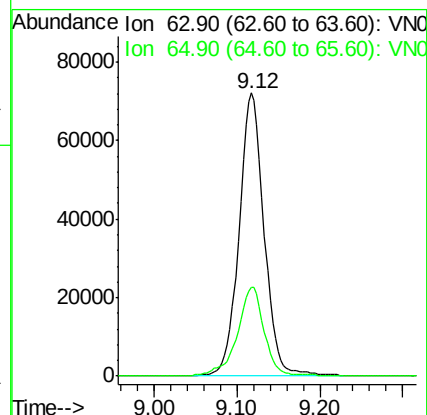
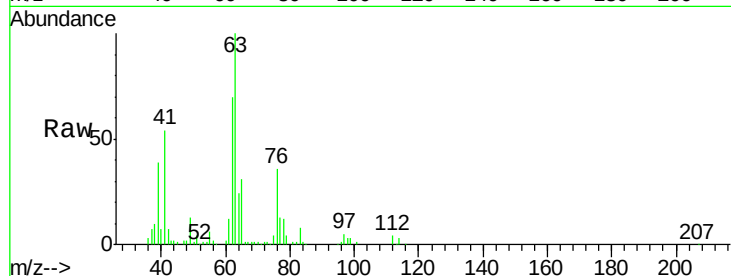
65 31.2 24.3 36.5

Manual Integrations

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MMDadoda

2/28/2019 2:55:33 PM



#46

Dibromomethane

Concen: 18.790 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

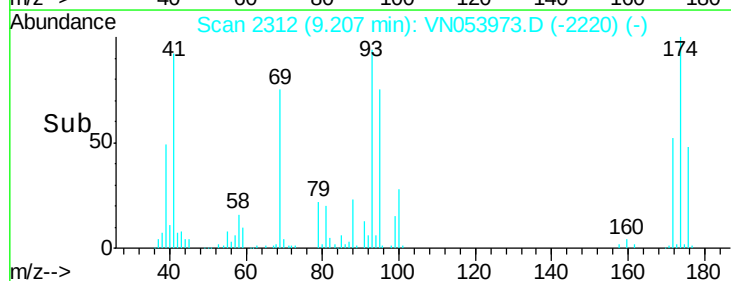
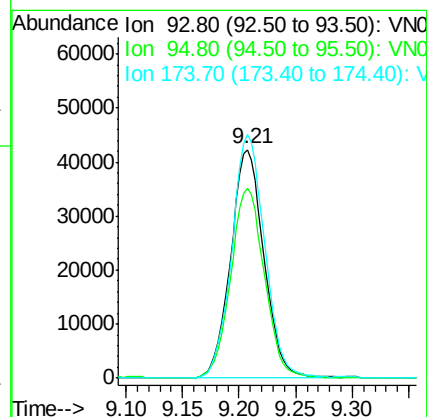
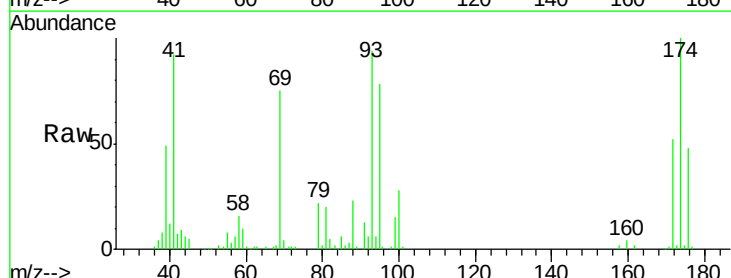
Tgt Ion: 93 Resp: 86634

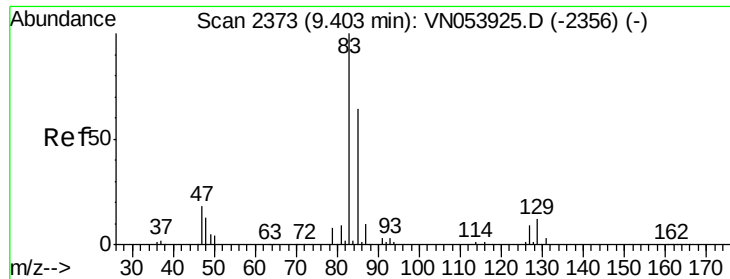
Ion Ratio Lower Upper

93 100

95 84.1 66.6 100.0

174 105.5 96.2 144.4





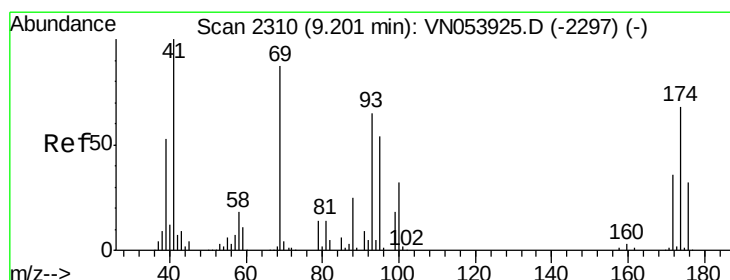
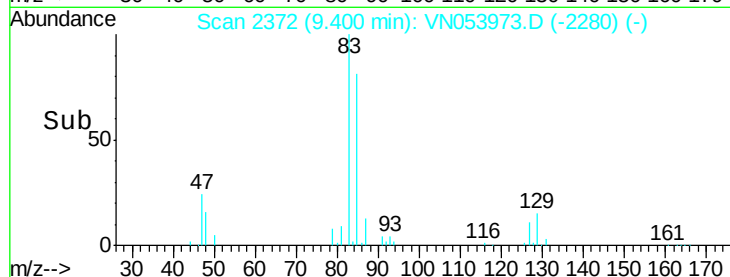
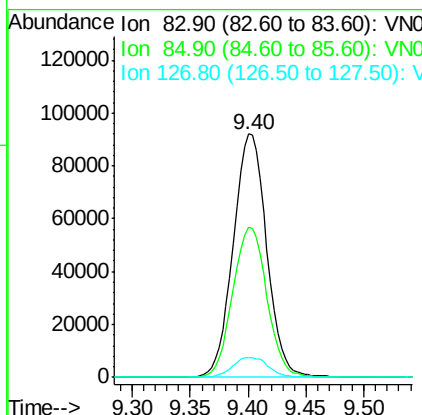
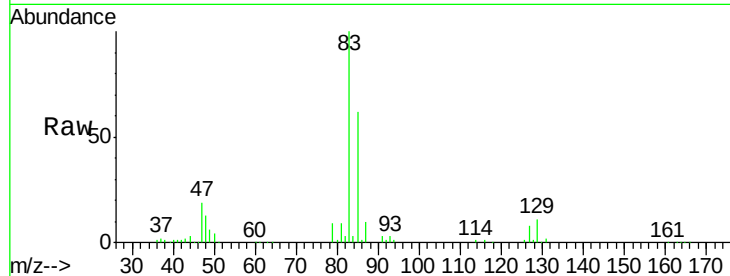
#47
Bromodichloromethane
Concen: 18.989 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	83	Resp	184511
Ion Ratio	100	Lower	Upper
83	100		
85	61.6	51.8	77.6
127	8.3	7.4	11.0

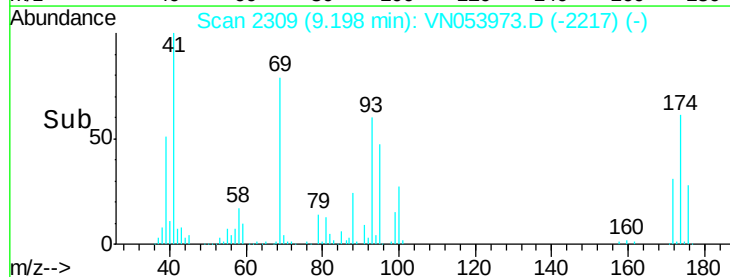
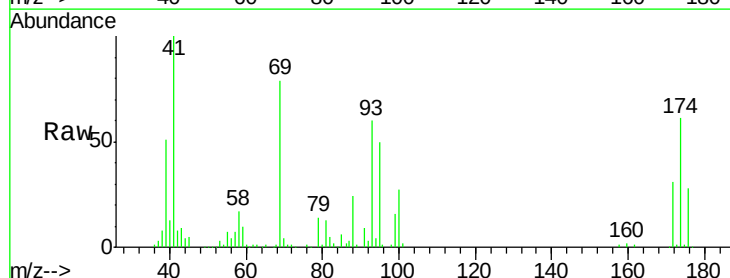
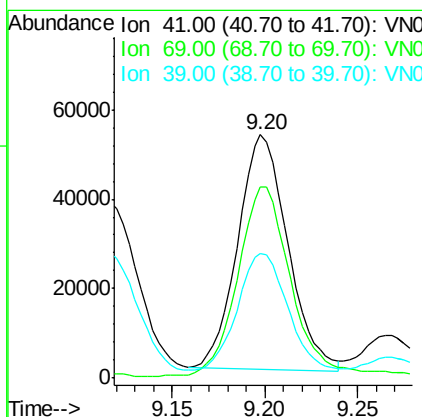
Manual Integrations
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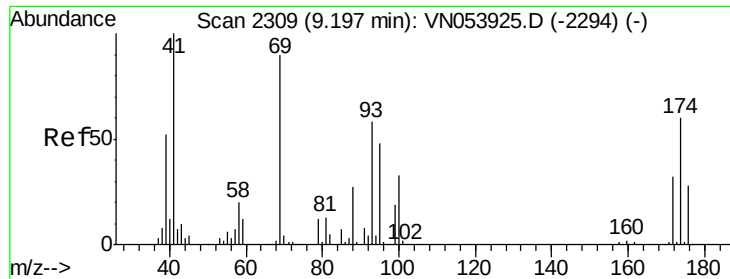
MMDadoda
2/28/2019 2:55:33 PM



#48
Methyl methacrylate
Concen: 18.431 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	41	Resp	97937
Ion Ratio	100	Lower	Upper
41	100		
69	88.9	74.8	112.2
39	57.4	39.0	58.6





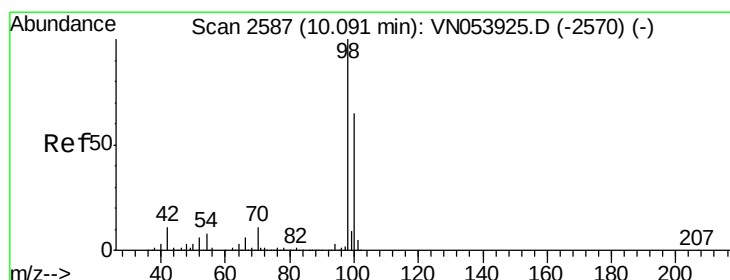
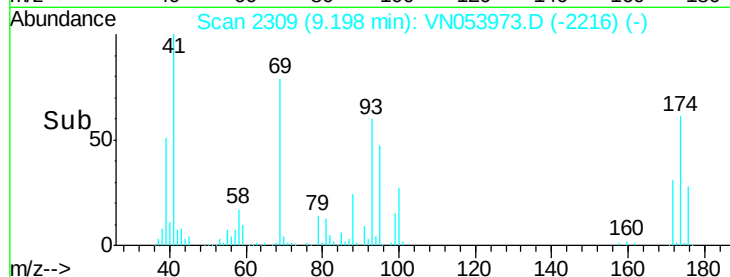
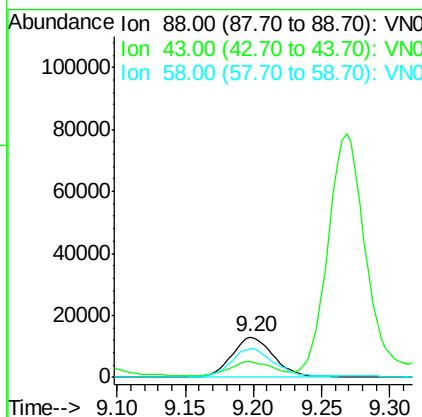
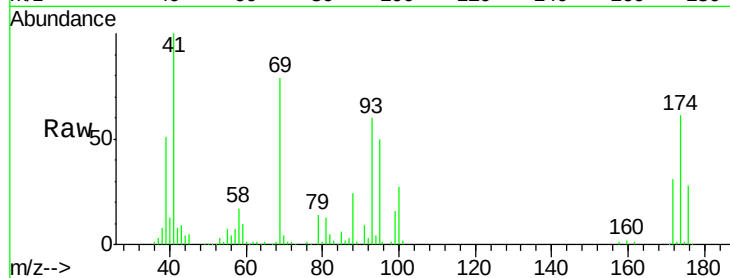
#49
 1,4-Dioxane
 Concen: 385.831 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion	88	Resp	27768
Ion	Ratio	Lower	Upper
88	100		
43	35.1	21.2	31.8#
58	73.8	54.2	81.2

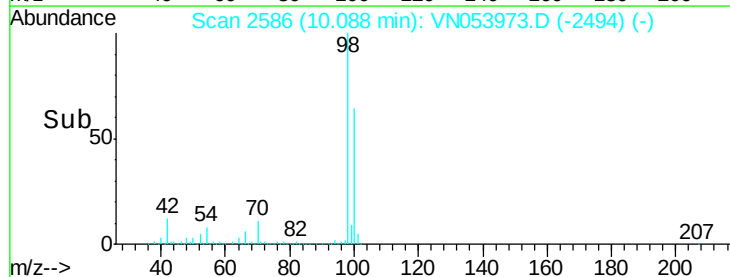
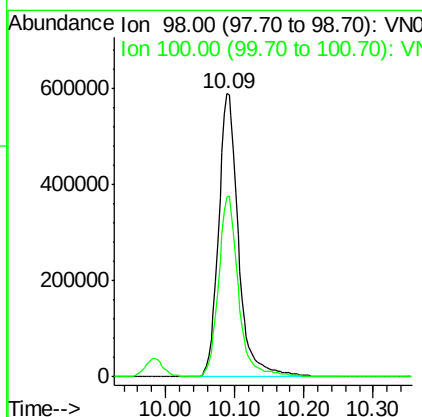
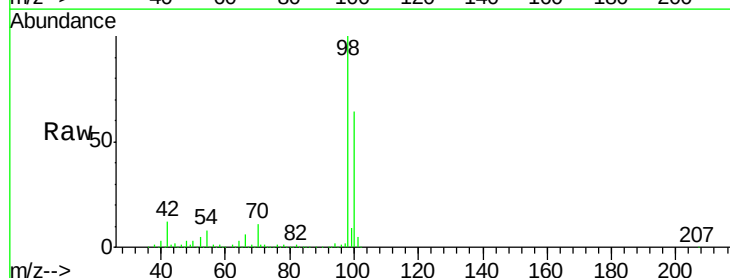
Manual Integrations
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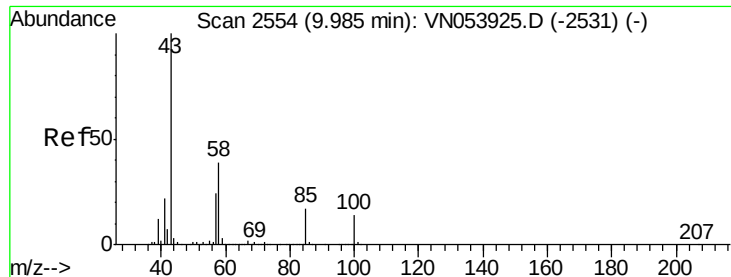
MMDadoda
 2/28/2019 2:55:33 PM



#50
 Toluene-d8
 Concen: 47.469 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion	98	Resp	1177381
Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 94.041 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 43 Resp: 558251

Ion Ratio Lower Upper

43 100

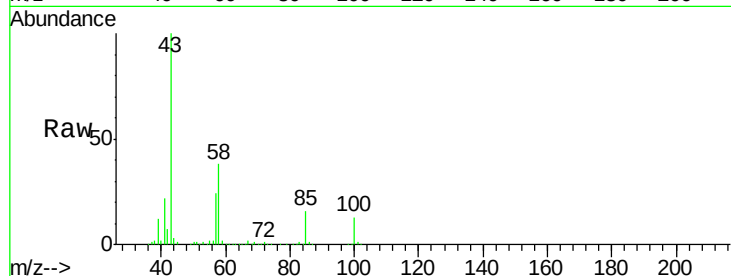
58 37.9 32.7 49.1

Manual Integrations

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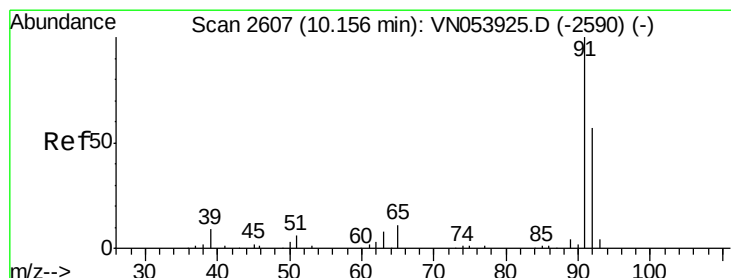
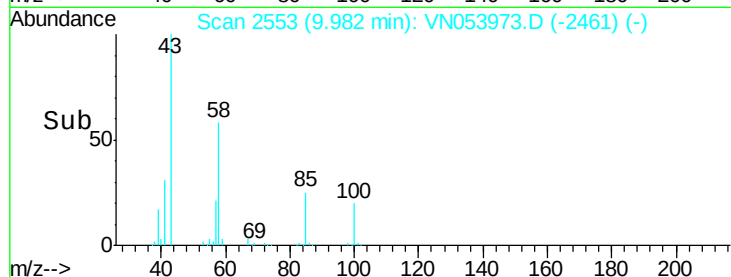
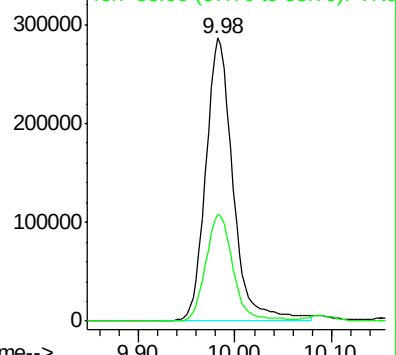
MMDadoda

2/28/2019 2:55:33 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.085 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053973.D

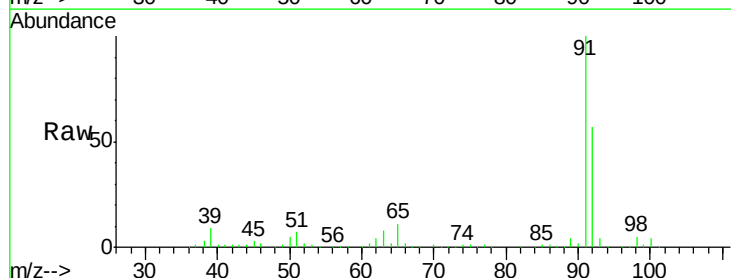
Acq: 27 Feb 2019 17:30

Tgt Ion: 92 Resp: 330807

Ion Ratio Lower Upper

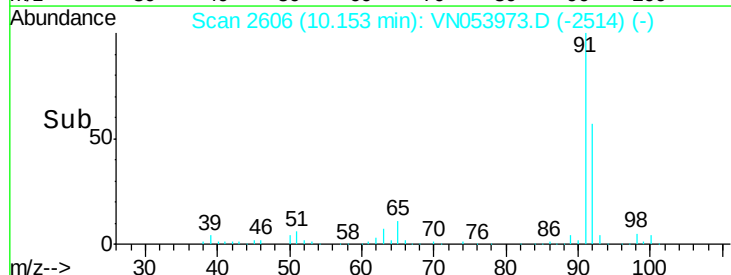
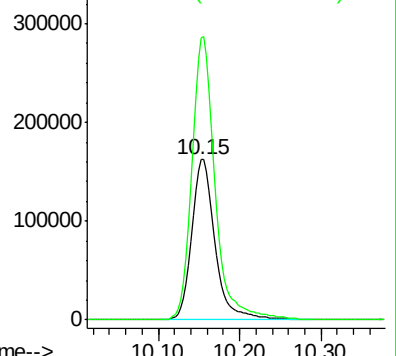
92 100

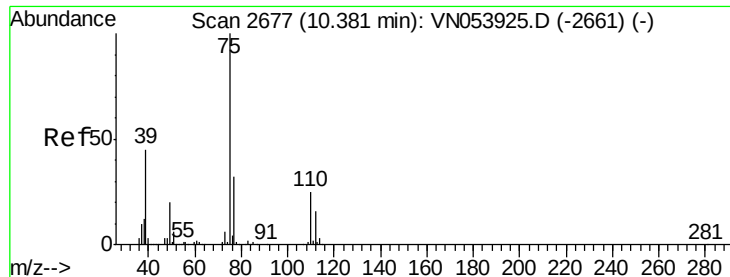
91 175.4 138.4 207.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 18.730 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampled :

VN0227WBS01

Tot Ion: 75 Resp: 177078

Ion Ratio Lower Upper

75 100

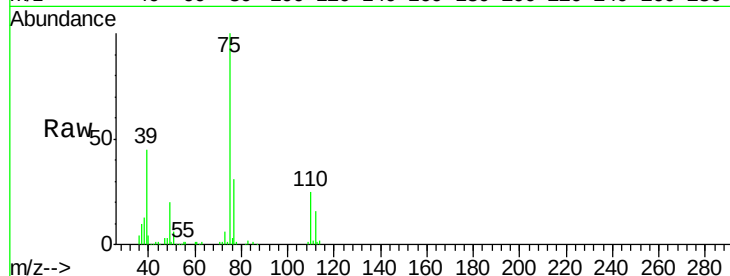
77 31.3 25.0 37.6

Manual Integrations

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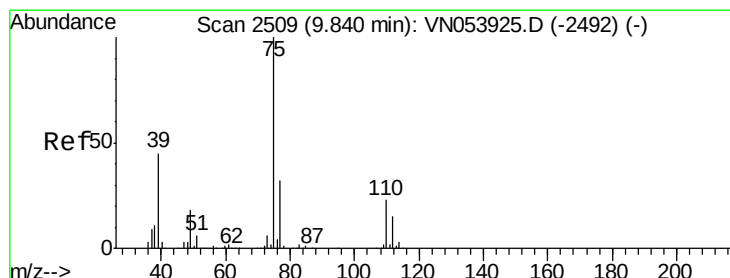
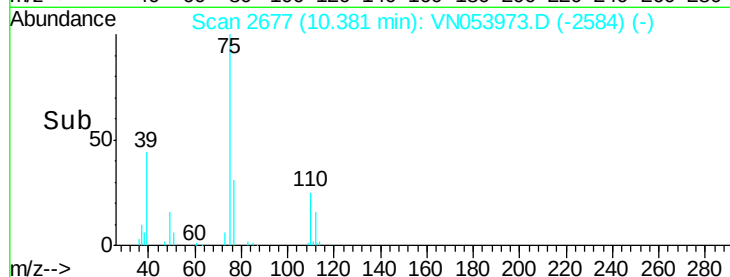
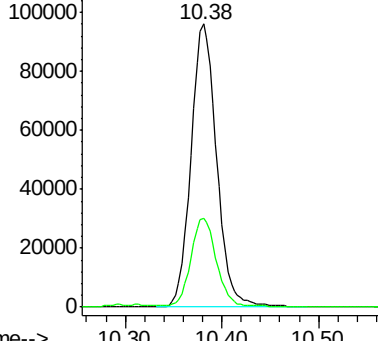
MMDadoda

2/28/2019 2:55:33 PM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 18.867 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

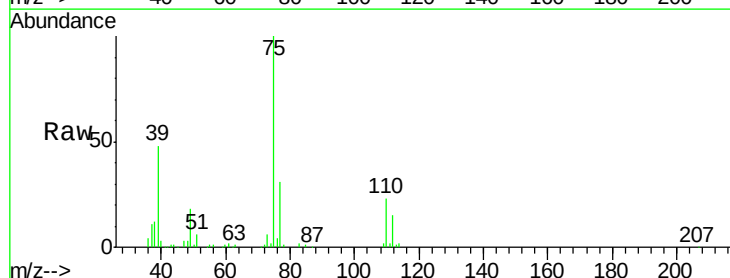
Tgt Ion: 75 Resp: 210281

Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.6

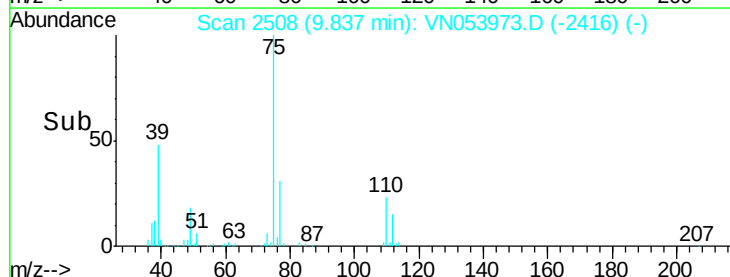
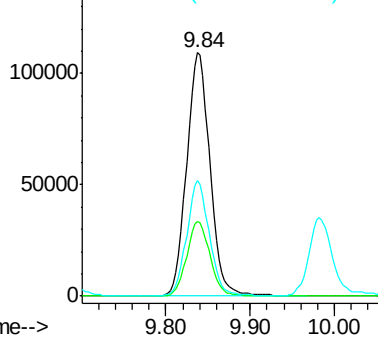
39 47.7 31.4 47.0#

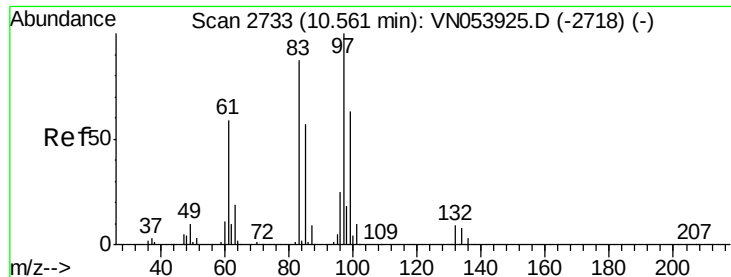


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





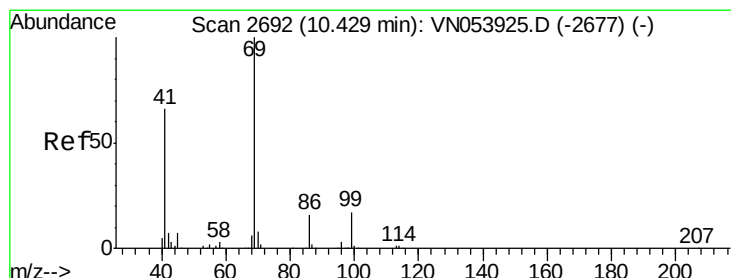
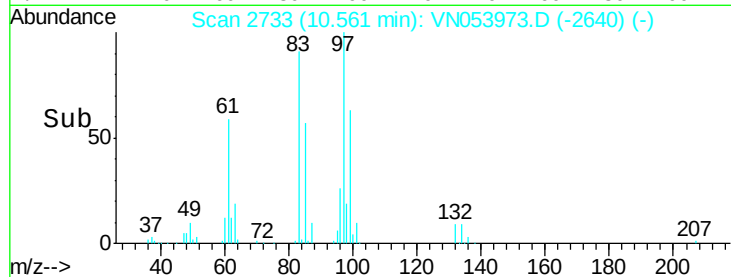
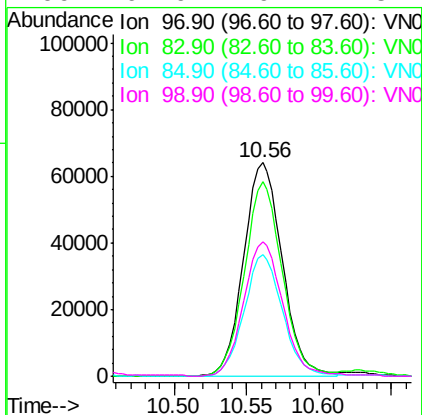
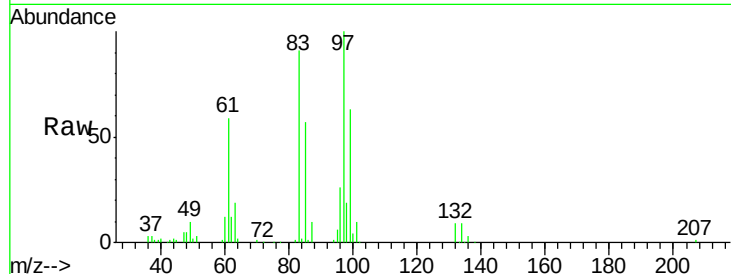
#55
 1,1,2-Trichloroethane
 Concen: 18.389 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion:	97	Resp:	119037
Ion Ratio	Lower	Upper	
97	100		
83	90.8	69.5	104.3
85	57.1	45.9	68.9
99	62.9	49.1	73.7

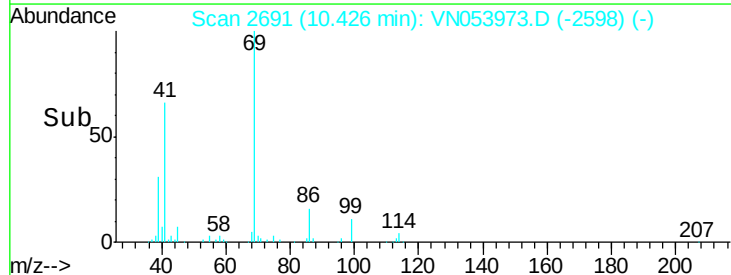
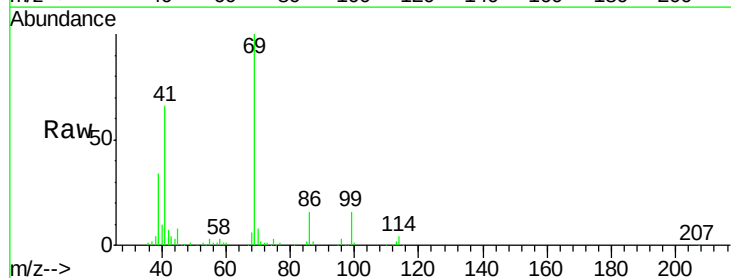
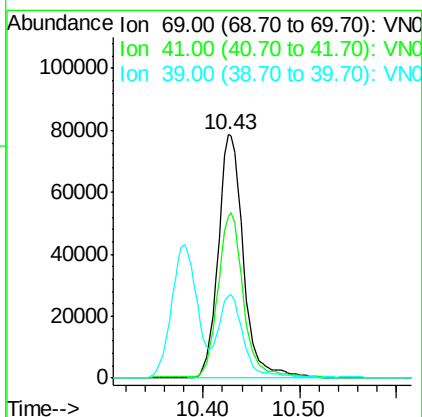
Manual Integrations
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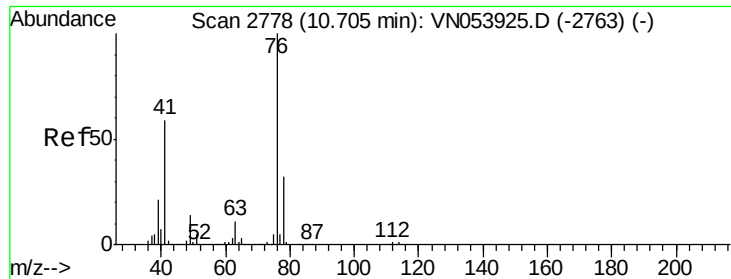
MMDadoda
 2/28/2019 2:55:33 PM



#56
 Ethyl methacrylate
 Concen: 18.029 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion:	69	Resp:	141982
Ion Ratio	Lower	Upper	
69	100		
41	69.3	47.5	71.3
39	33.8	23.4	35.0





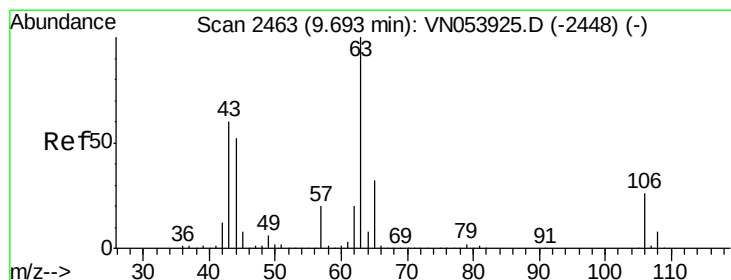
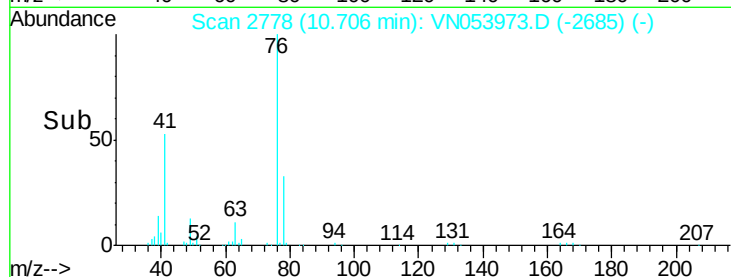
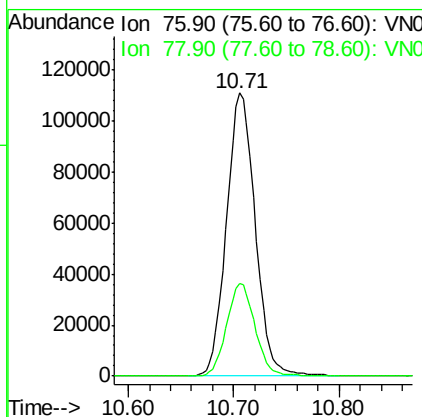
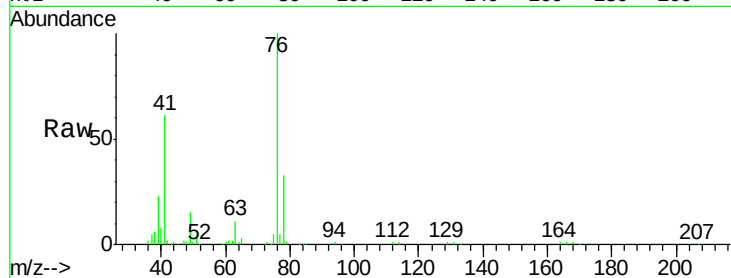
#57
 1,3-Dichloropropane
 Concen: 19.149 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion: 76 Resp: 209442
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.2 37.8

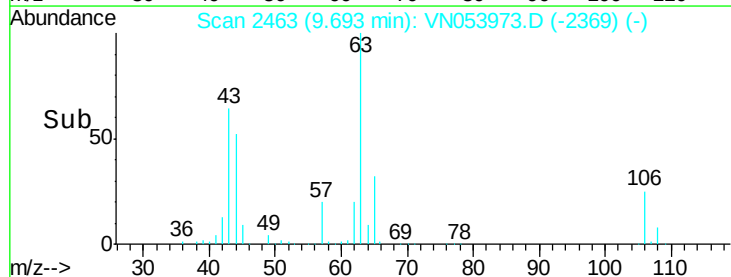
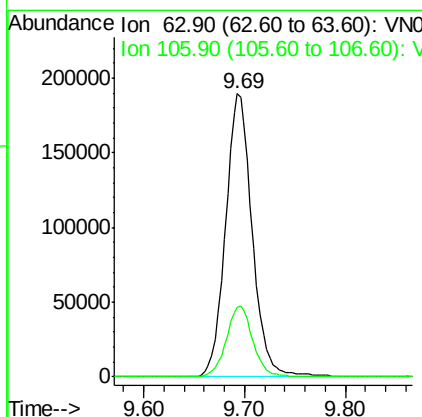
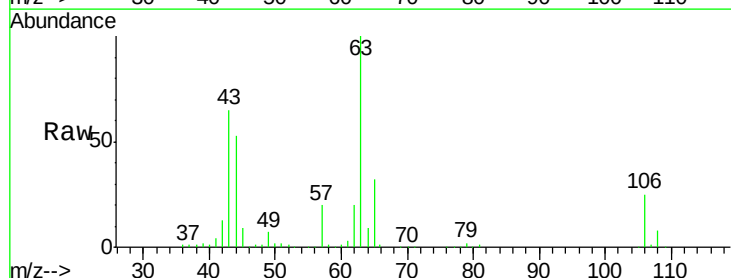
Manual Integrations
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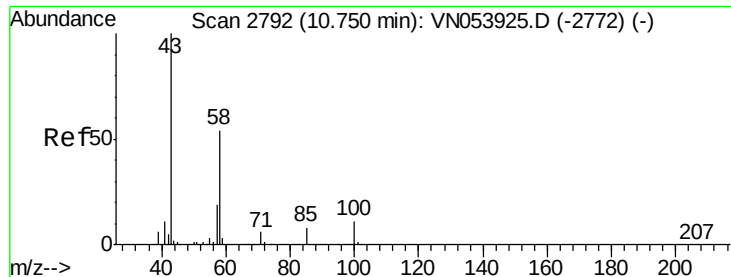
MMDadoda
 2/28/2019 2:55:33 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 97.163 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion: 63 Resp: 349158
 Ion Ratio Lower Upper
 63 100
 106 25.0 22.2 33.2





#59

2-Hexanone

Concen: 93.143 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 43 Resp: 359609

Ion Ratio Lower Upper

43 100

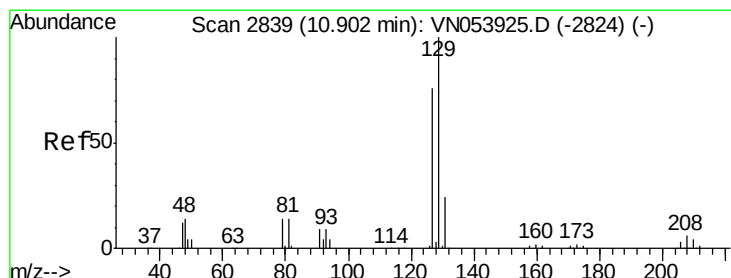
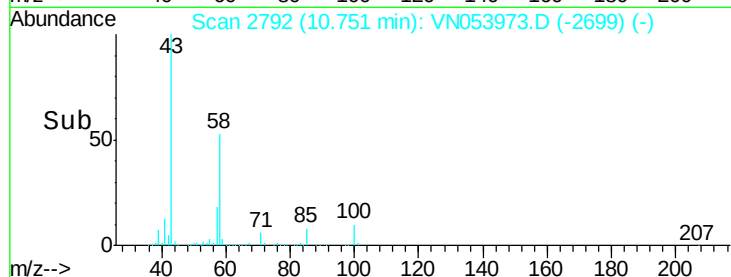
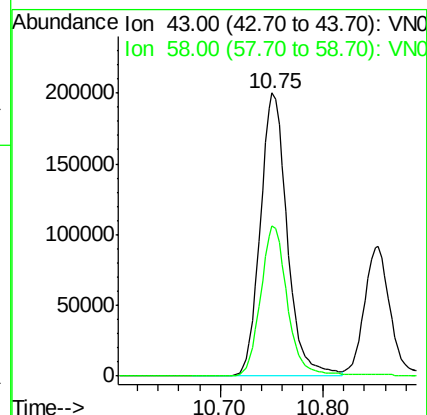
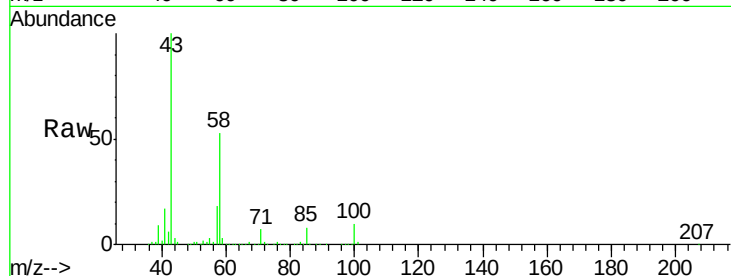
58 53.1 29.1 87.4

Manual Integrations

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2/28/2019 2:55:33 PM



#60

Dibromochloromethane

Concen: 17.895 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN053973.D

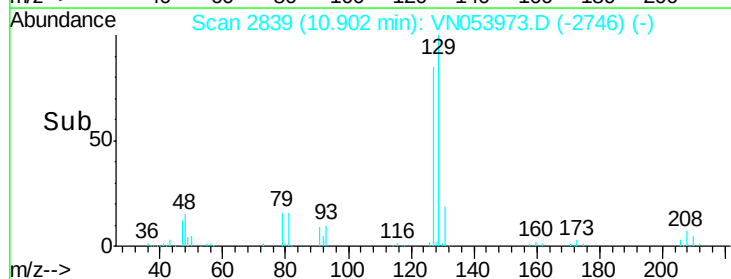
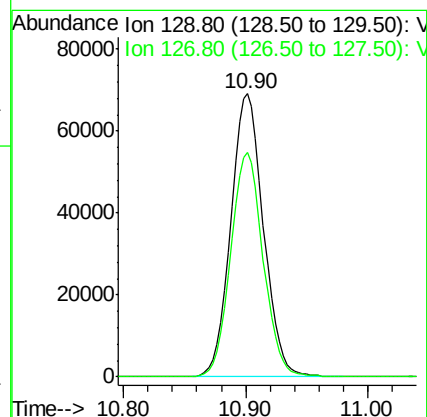
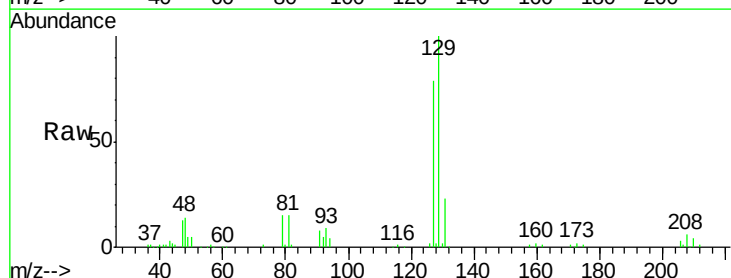
Acq: 27 Feb 2019 17:30

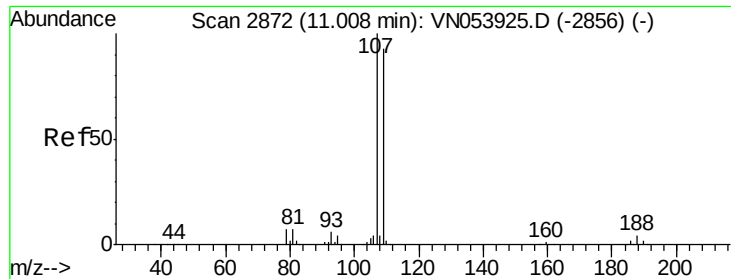
Tgt Ion: 129 Resp: 128739

Ion Ratio Lower Upper

129 100

127 78.7 38.8 116.3





#61

1,2-Dibromoethane

Concen: 18.228 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 107 Resp: 113826

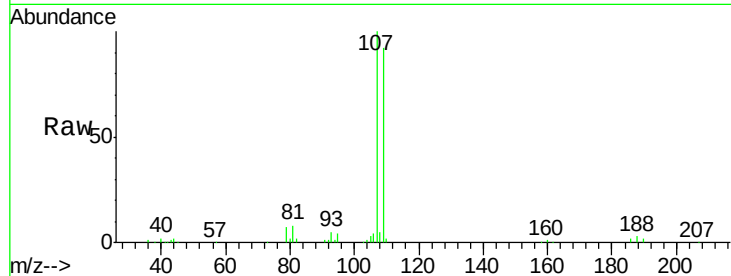
Ion Ratio Lower Upper

107 100

109 93.3 76.3 114.5

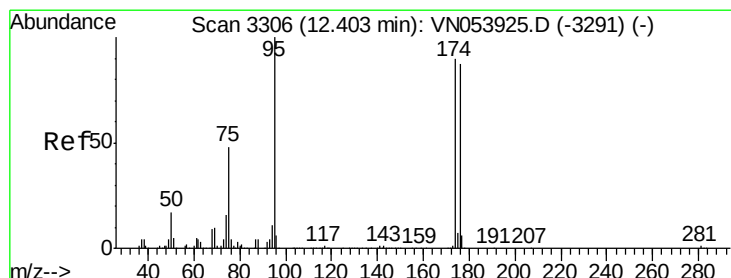
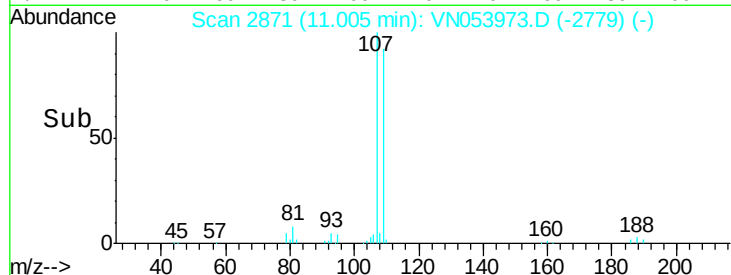
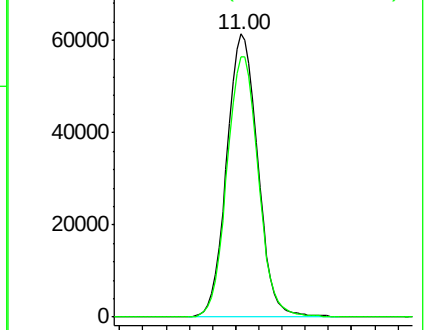
Manual Integrations
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 46.619 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

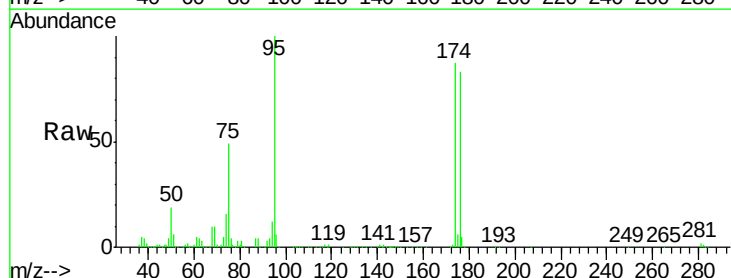
Tgt Ion: 95 Resp: 385249

Ion Ratio Lower Upper

95 100

174 87.7 0.0 188.8

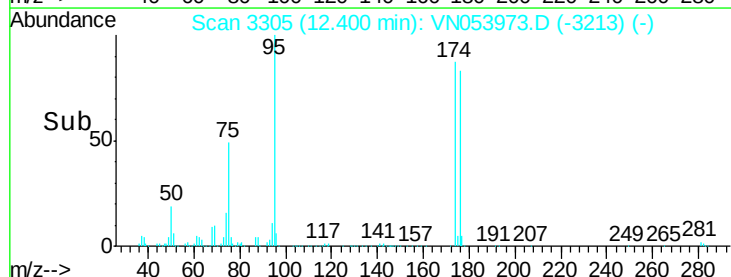
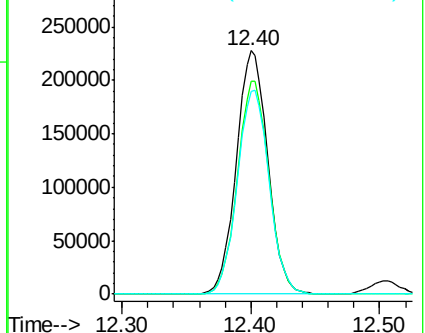
176 84.8 0.0 182.6

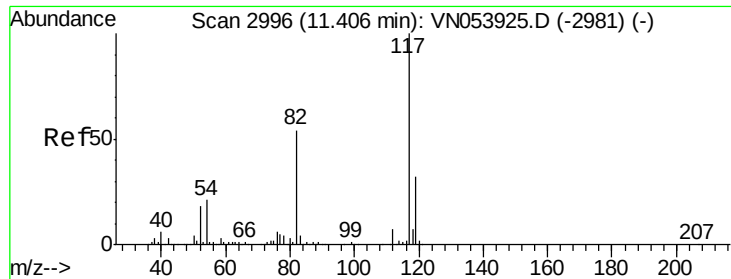


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





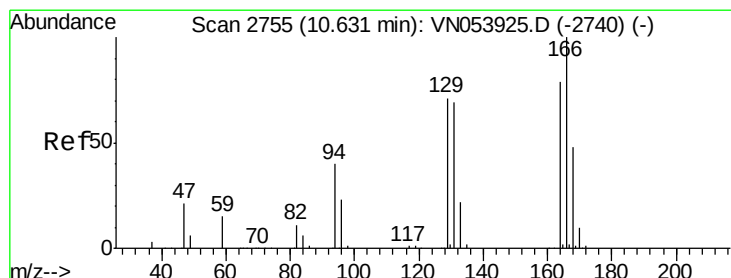
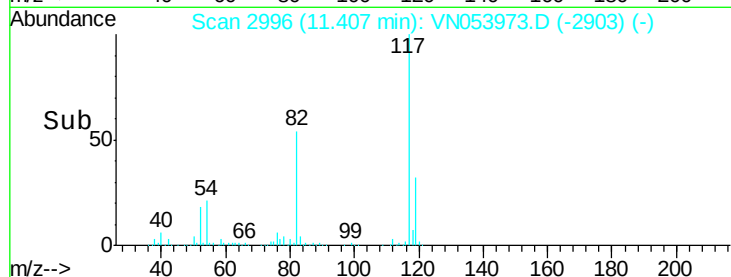
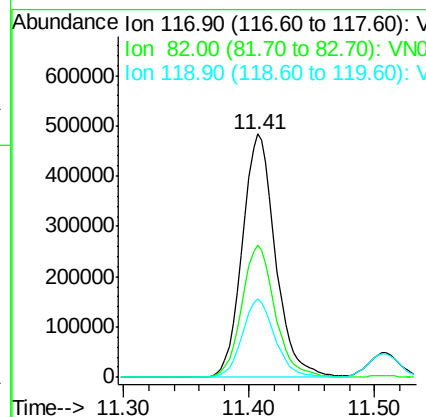
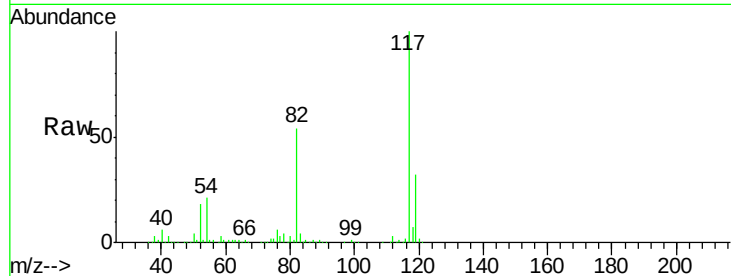
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	887484		
82	54.2		41.4	62.2
119	32.2		25.3	37.9

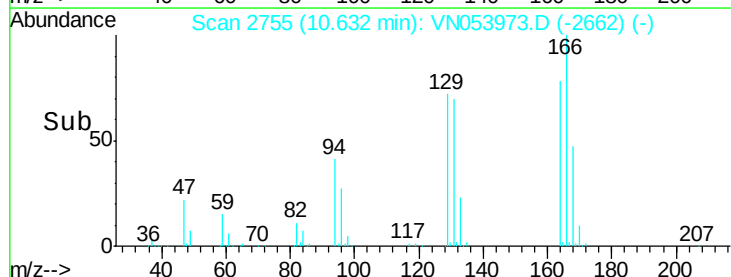
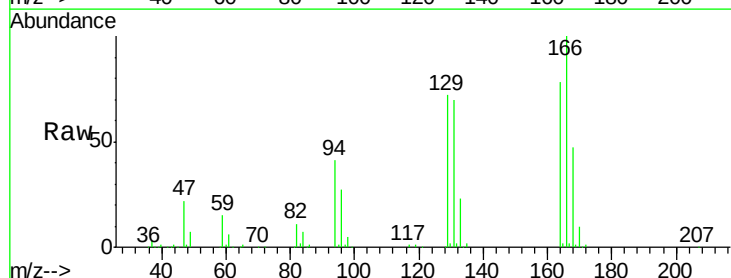
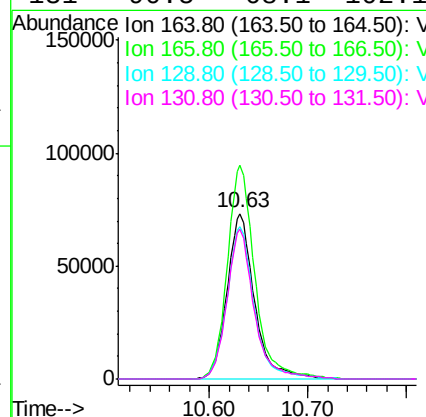
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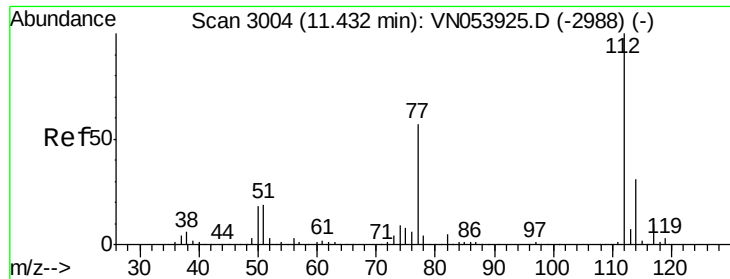
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#64
Tetrachloroethene
Concen: 18.980 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	142633		
166	128.9		102.6	153.8
129	92.2		69.4	104.0
131	90.5		68.1	102.1





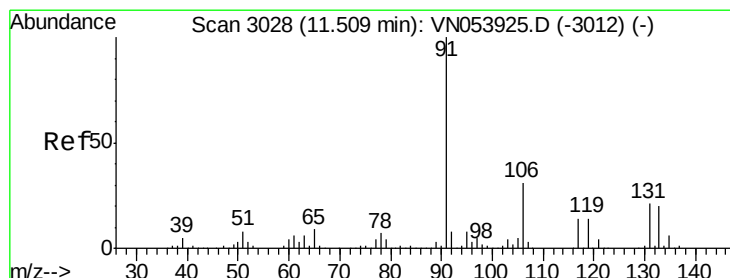
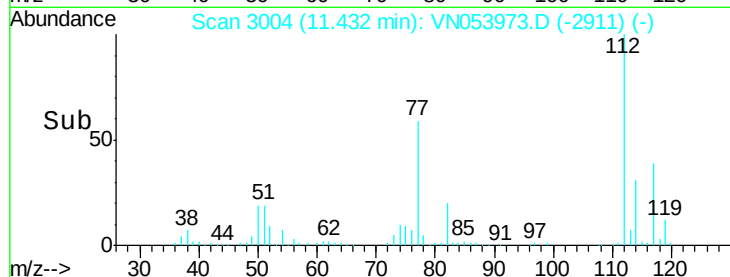
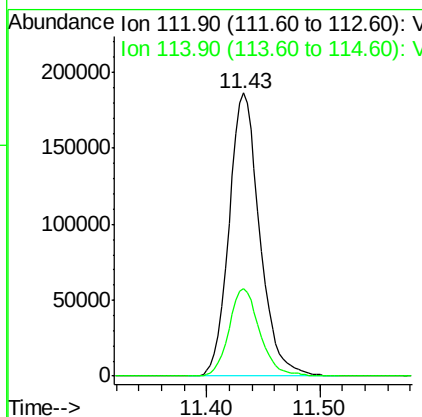
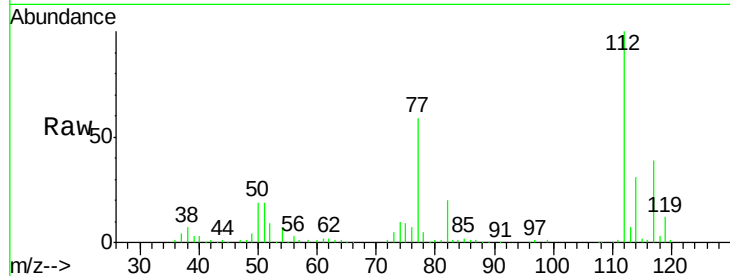
#65
Chlorobenzene
Concen: 18.738 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion:112 Resp: 350964
Ion Ratio Lower Upper
112 100
114 30.9 25.7 38.5

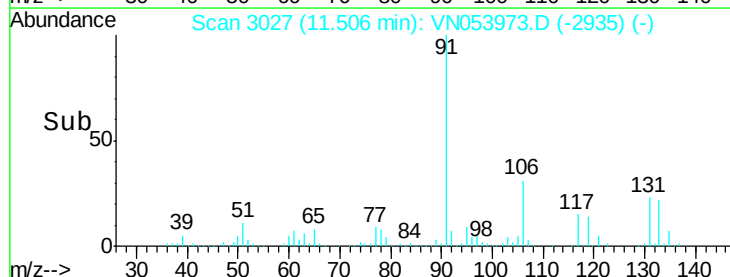
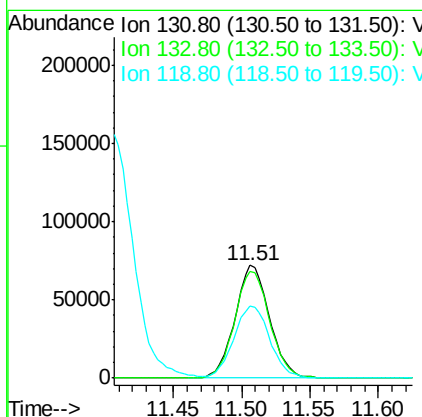
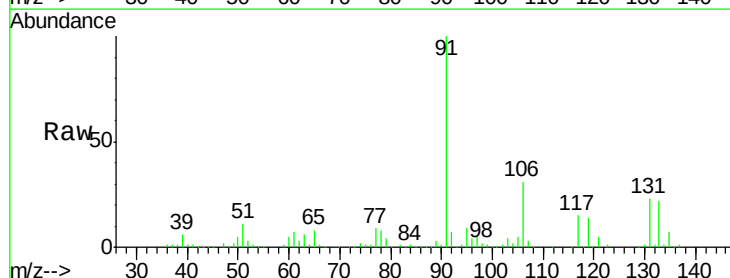
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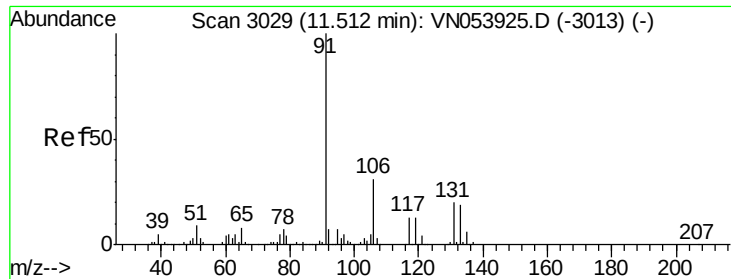
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#66
1,1,1,2-Tetrachloroethane
Concen: 18.750 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion:131 Resp: 126568
Ion Ratio Lower Upper
131 100
133 96.4 47.7 143.1
119 66.8 33.1 99.3





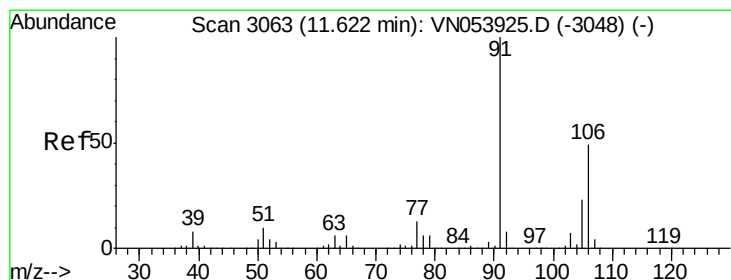
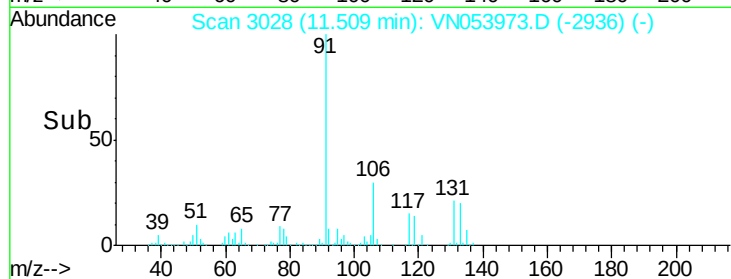
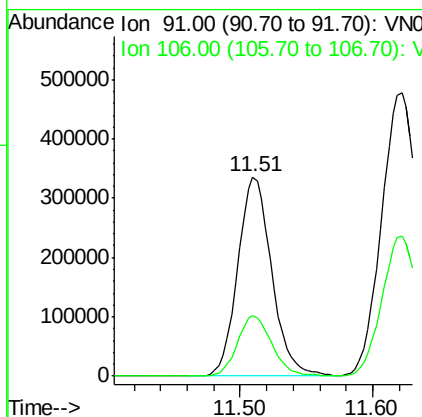
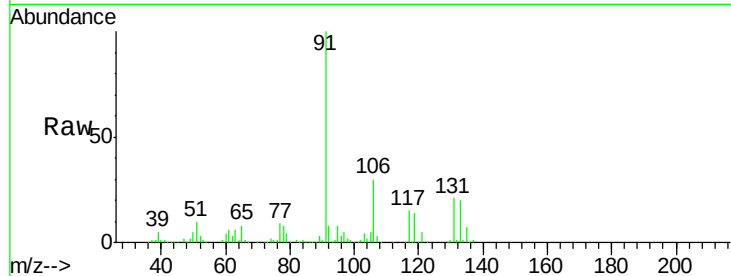
#67
Ethyl Benzene
Concen: 19.041 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	91	Resp	597866
Ion	Ratio	Lower	Upper
91	100		
106	30.2	25.2	37.8

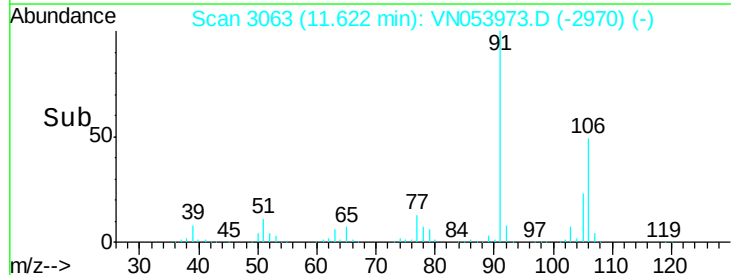
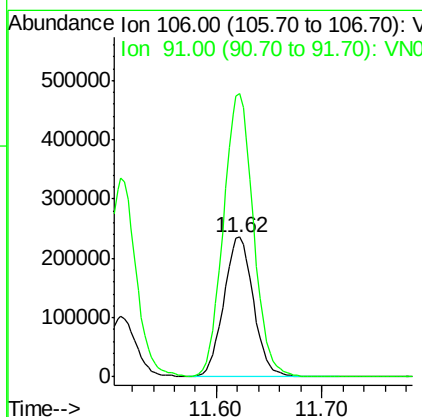
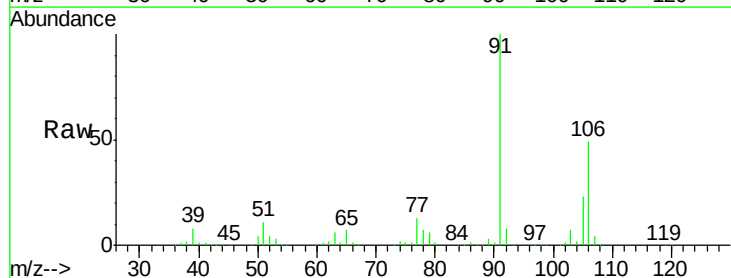
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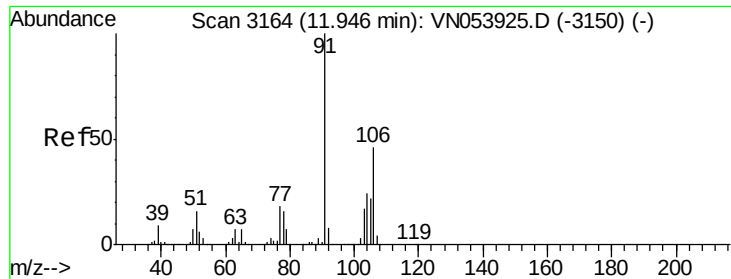
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#68
m/p-Xylenes
Concen: 38.712 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	106	Resp	458774
Ion	Ratio	Lower	Upper
106	100		
91	204.4	158.9	238.3





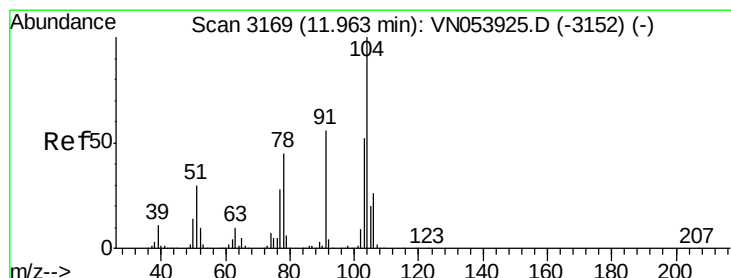
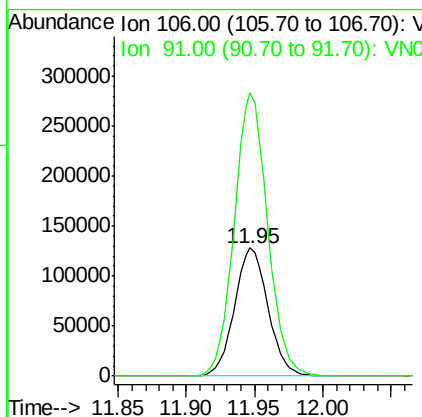
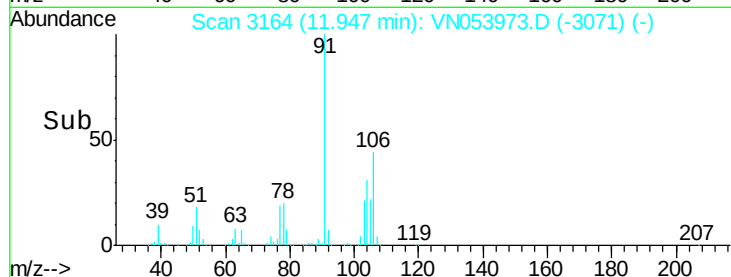
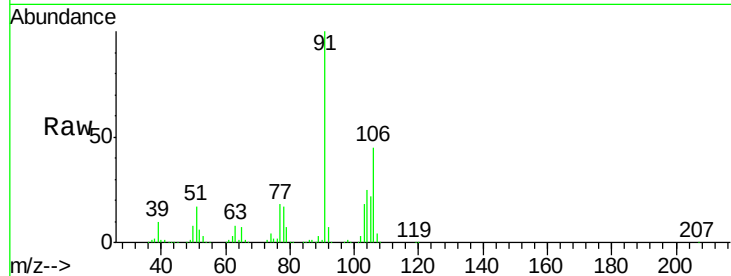
#69
o-Xylene
Concen: 18.803 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	218955		
91	219.0	106.0	318.0	

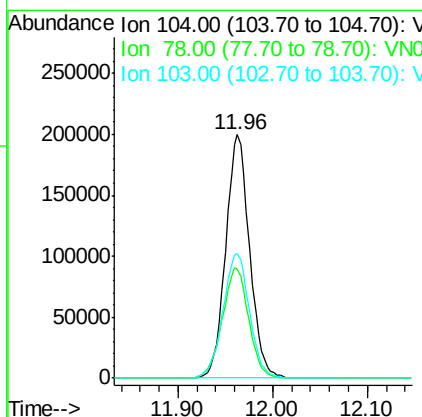
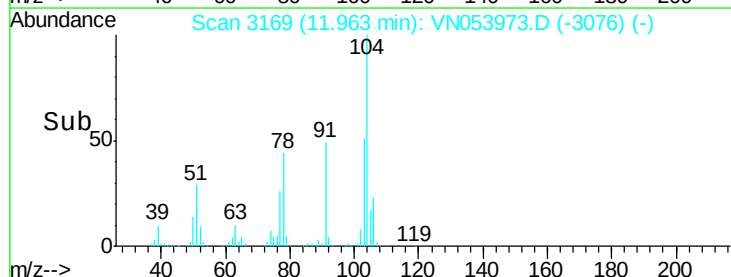
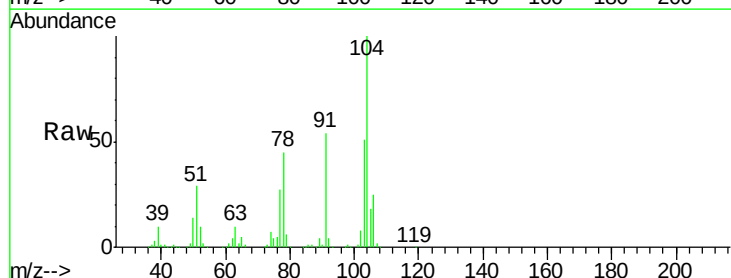
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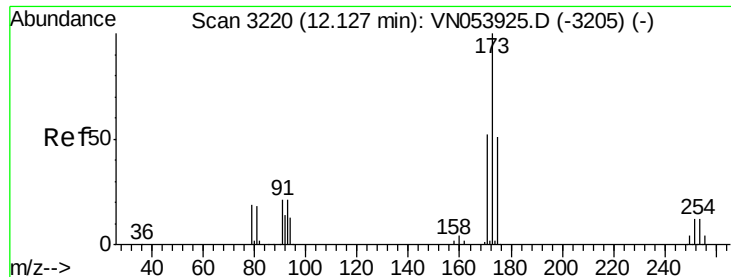
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#70
Styrene
Concen: 19.525 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	349711		
78	50.0	38.1	57.1	
103	56.7	44.6	67.0	





#71

Bromoform

Concen: 18.017 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion:173 Resp: 84609

Ion Ratio Lower Upper

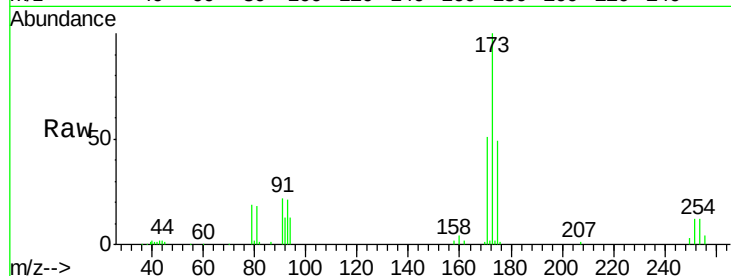
173 100

175 48.4 24.3 72.8

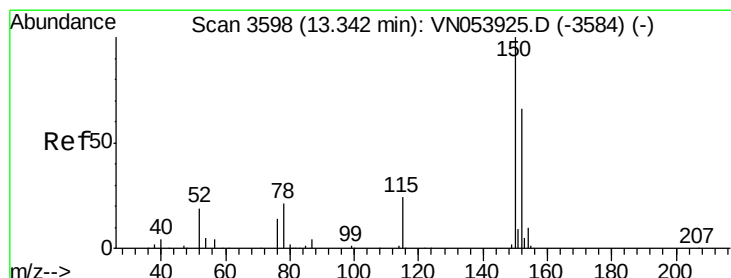
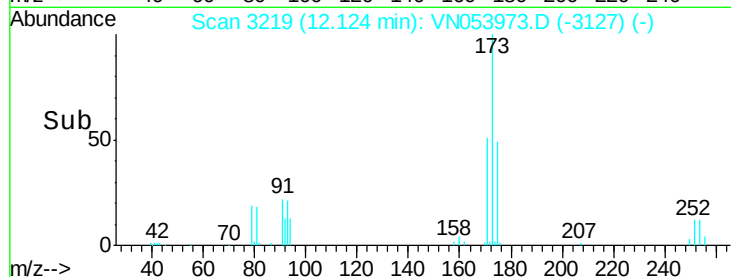
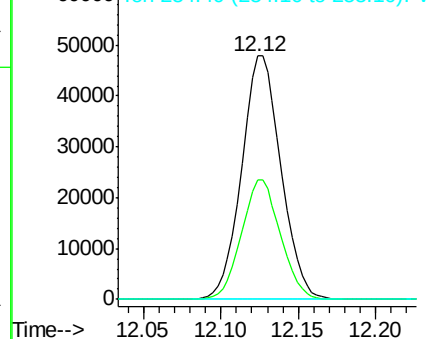
254 0.0 0.2 0.2#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

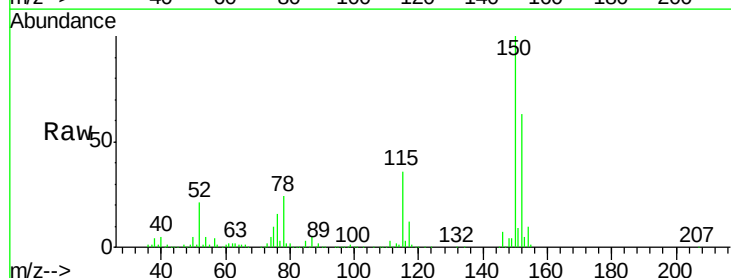
Tgt Ion:152 Resp: 398075

Ion Ratio Lower Upper

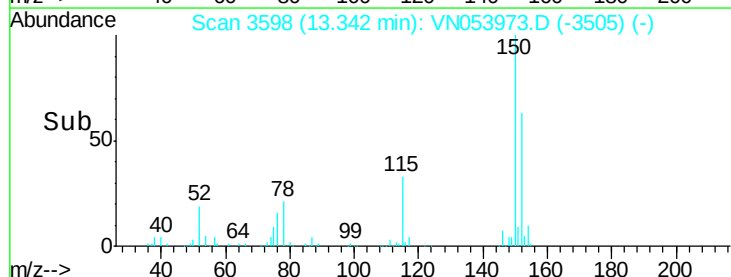
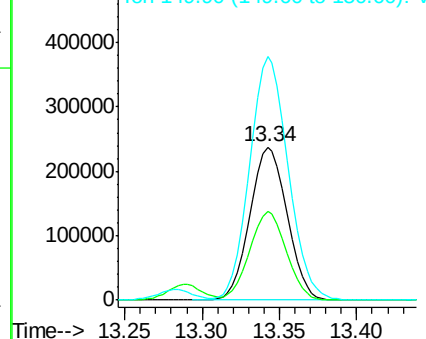
152 100

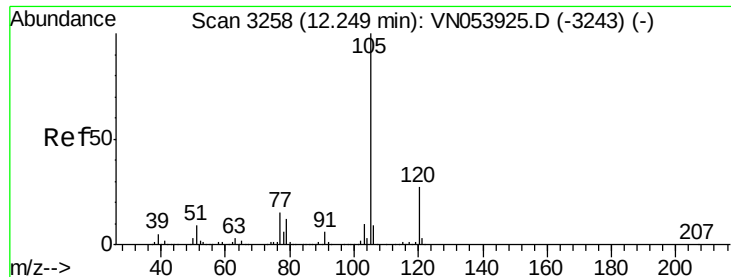
115 57.1 27.2 81.6

150 164.8 0.0 348.2



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: 18.839 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion:105 Resp: 583773

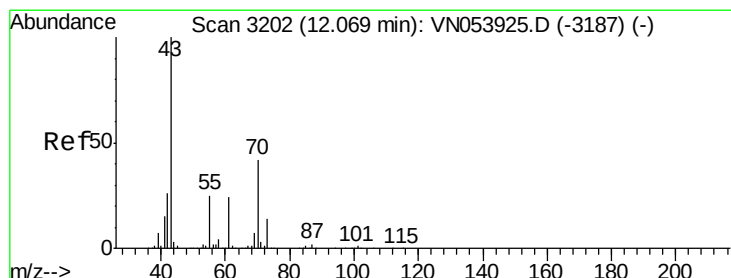
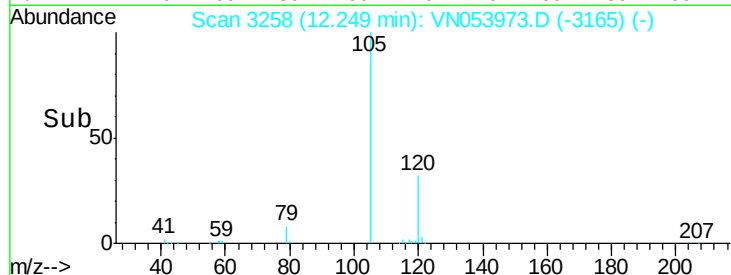
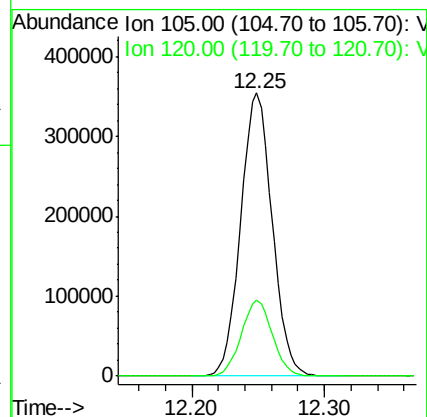
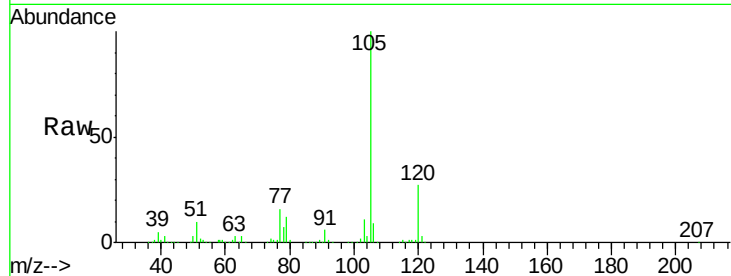
Ion Ratio Lower Upper

105 100

120 26.6 13.5 40.5

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#74

N-ethyl acetate

Concen: 19.253 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Tgt Ion: 43 Resp: 156370

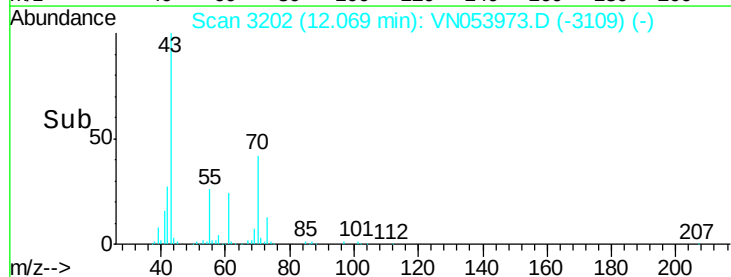
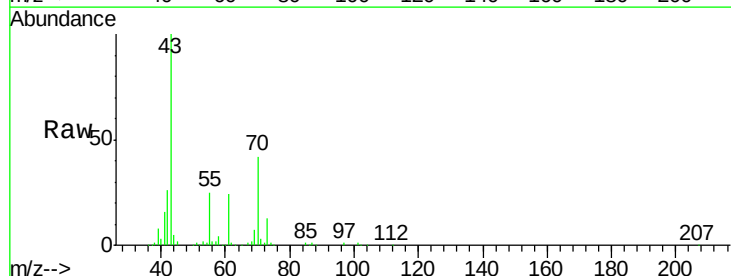
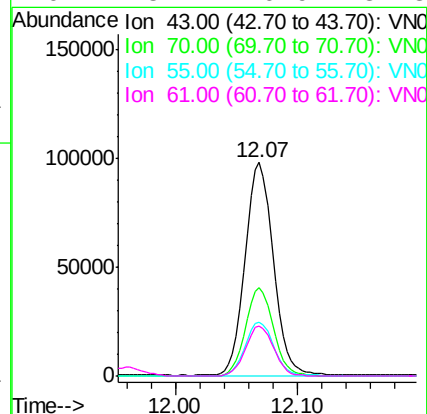
Ion Ratio Lower Upper

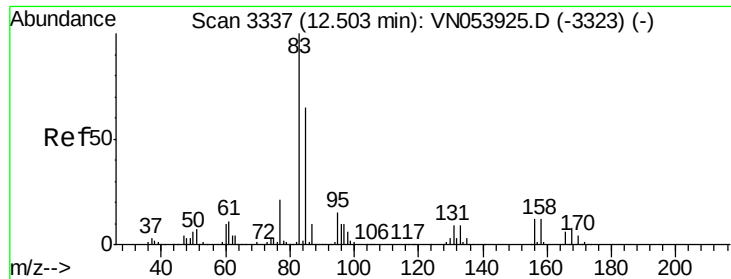
43 100

70 40.9 37.4 56.2

55 25.8 21.4 32.0

61 23.2 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 18.076 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

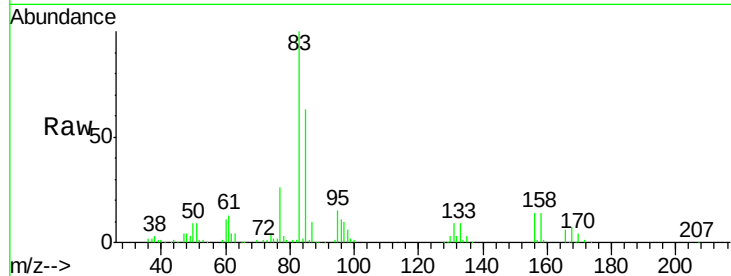
ClientSampleId :

VN0227WBS01

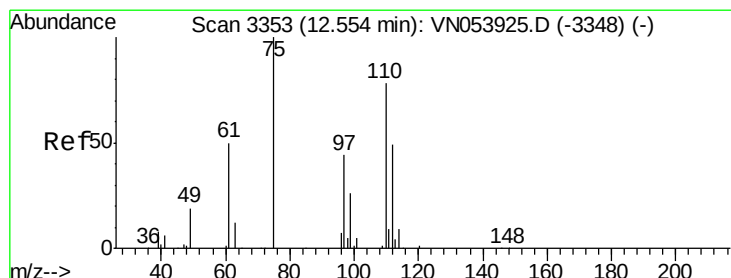
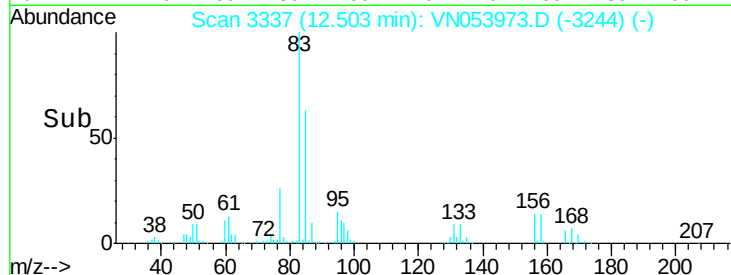
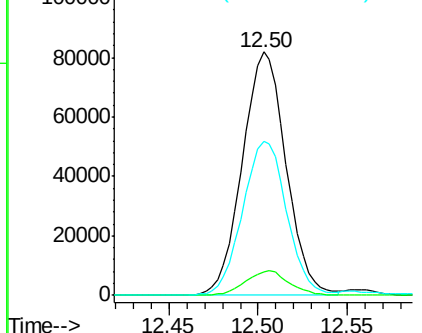
Tot Ion:	83	Resp:	140067
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.3	16.1
85	63.8	31.9	95.9

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN053973.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 20.367 ug/l m

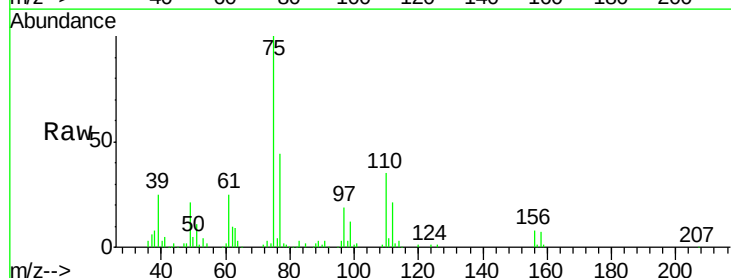
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

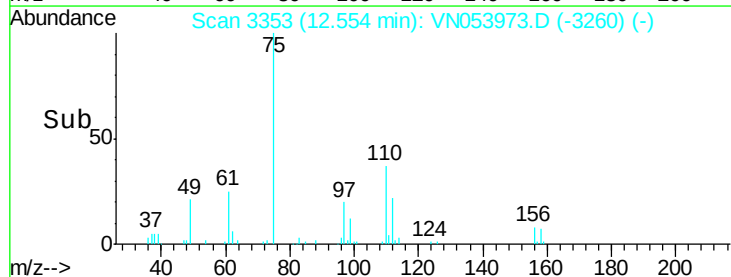
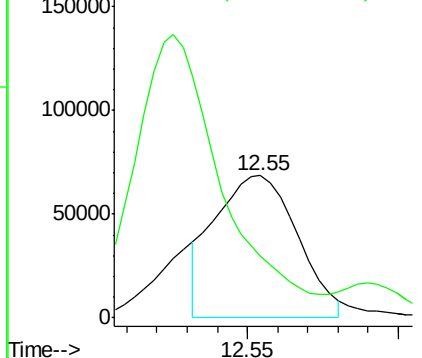
Lab File: VN053973.D

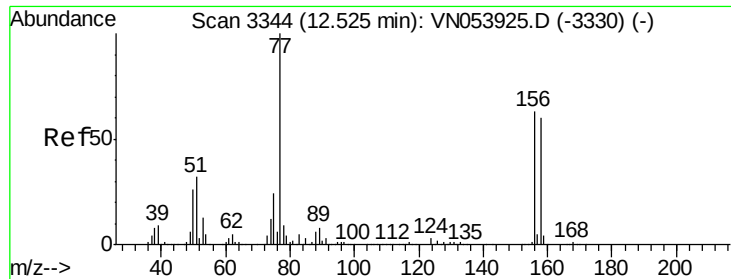
Acq: 27 Feb 2019 17:30

Tgt Ion:	75	Resp:	130061
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053973.D (-3260) (-)





#77

Bromobenzene

Concen: 18.343 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

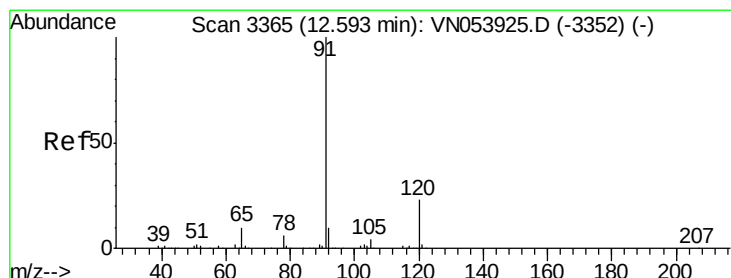
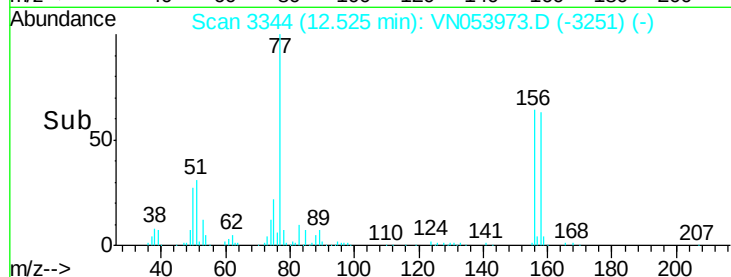
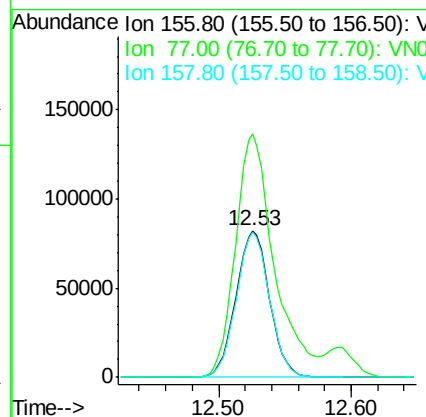
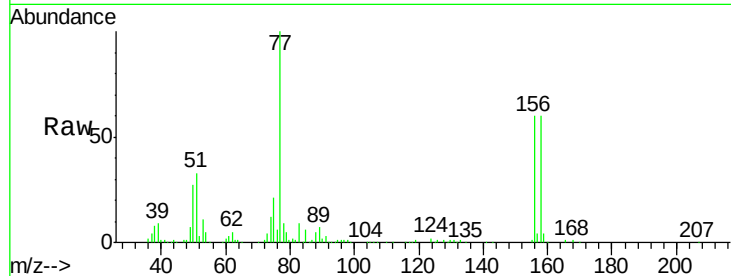
ClientSampleId :

VN0227WBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	191.5	84.0	252.2
158	98.1	48.5	145.6

Manual Integrations
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#78

n-propylbenzene

Concen: 19.562 ug/l

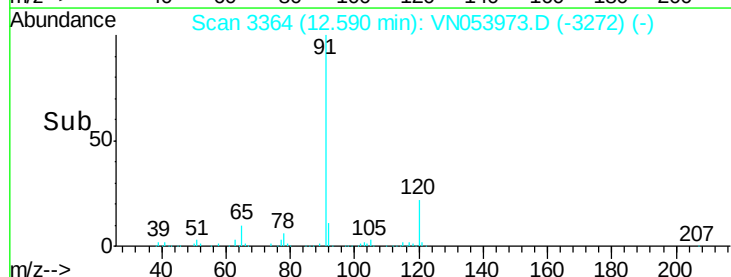
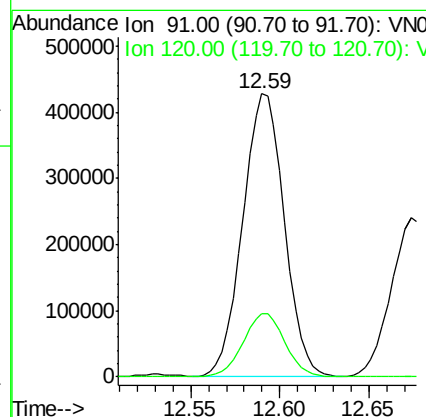
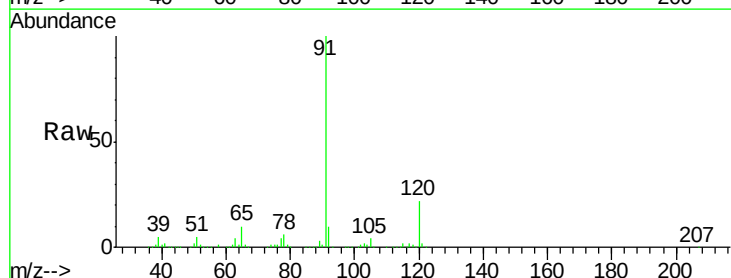
RT: 12.59 min Scan# 3364

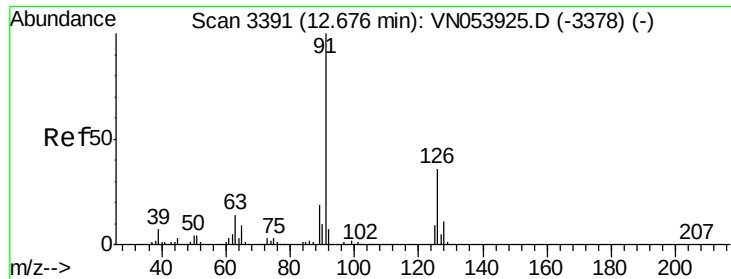
Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.7	11.9	35.9





#79

2-Chlorotoluene

Concen: 18.977 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion: 91 Resp: 401741

Ion Ratio Lower Upper

91 100

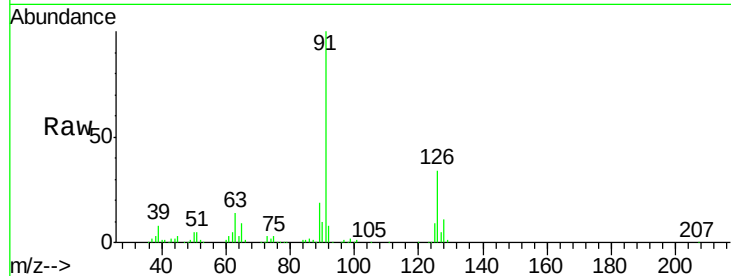
126 35.2 18.1 54.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN053925.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN053925.D (-3378) (-)

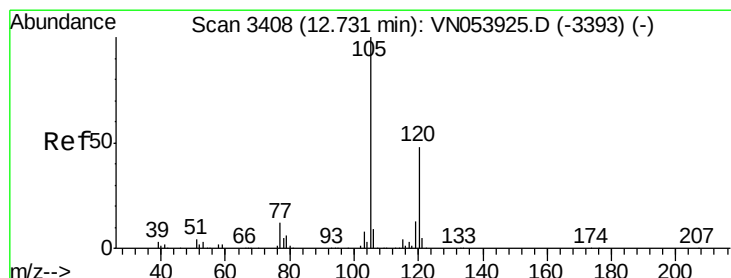
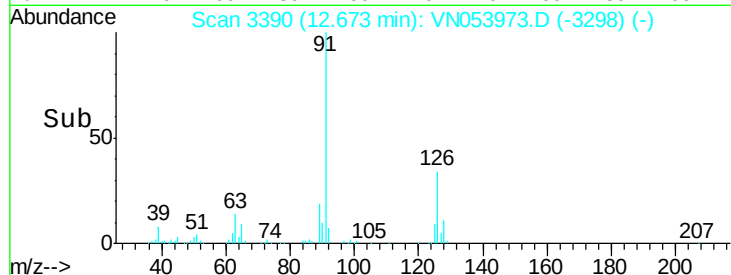
300000

200000

100000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 19.658 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053973.D

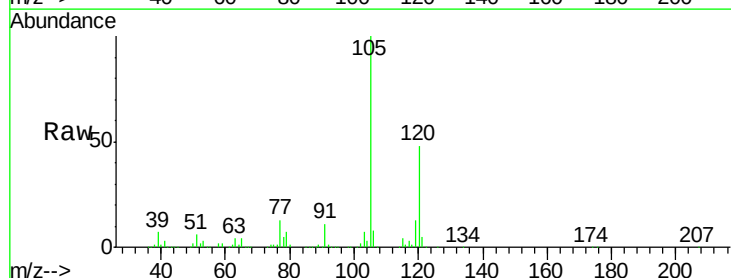
Acq: 27 Feb 2019 17:30

Tgt Ion: 105 Resp: 498699

Ion Ratio Lower Upper

105 100

120 48.7 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN053925.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053925.D (-3393) (-)

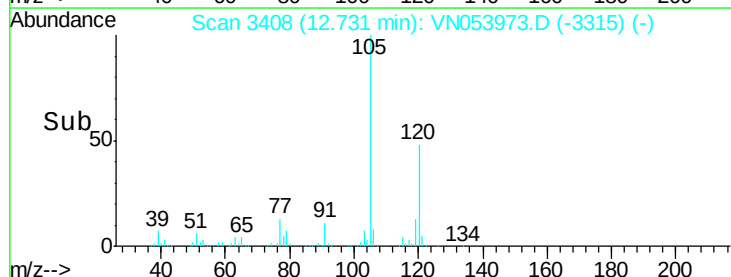
300000

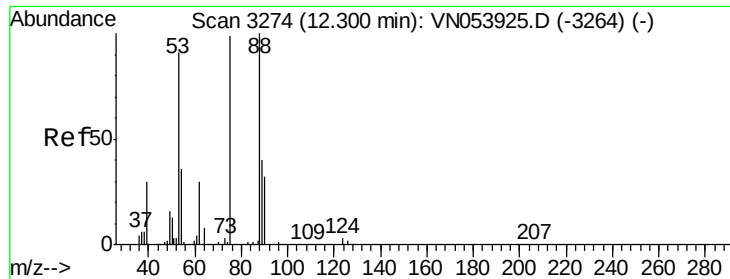
200000

100000

0

Time--> 12.70 12.80





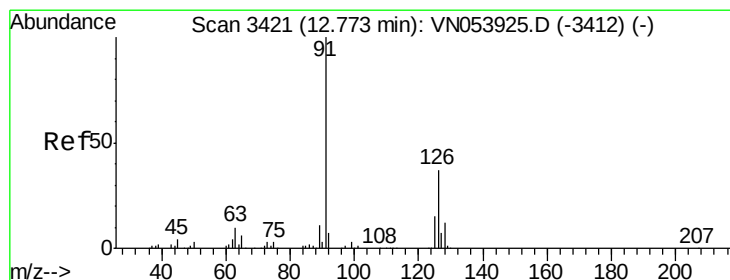
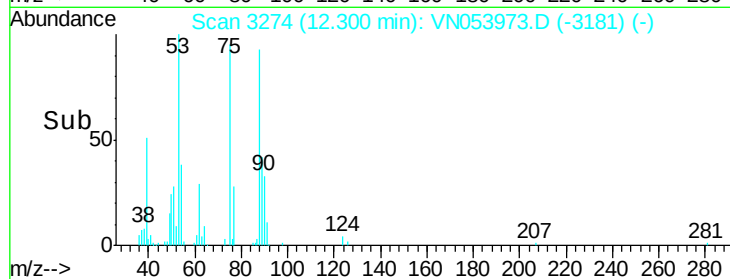
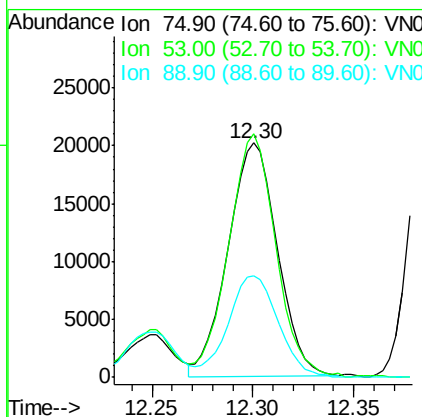
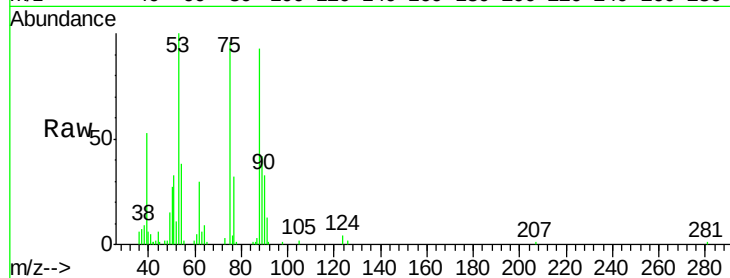
#81
trans-1,4-Dichloro-2-butene
Concen: 16.998 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.8	68.6	102.8
89	44.5	35.3	52.9

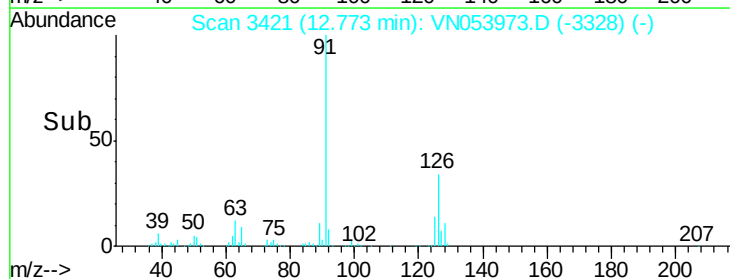
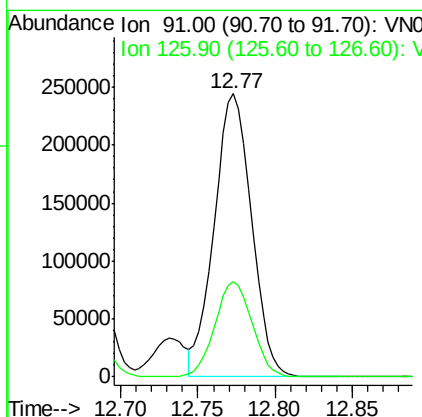
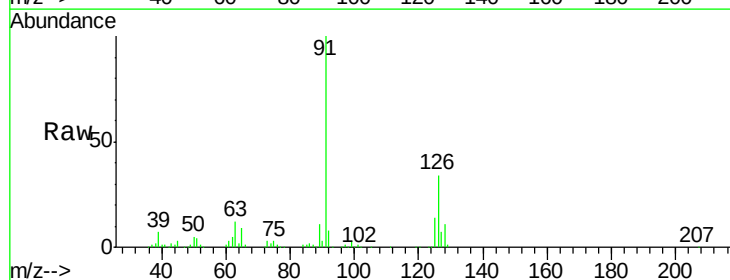
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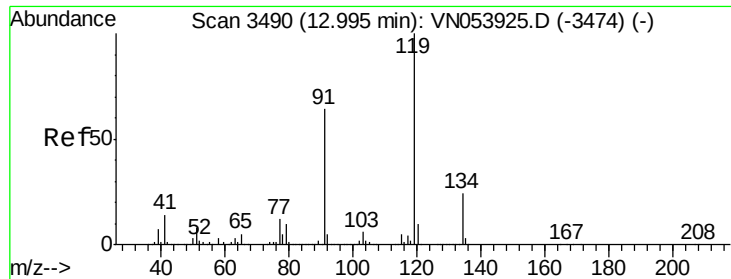
MMDadoda
2/28/2019 2:55:33 PM



#82
4-Chlorotoluene
Concen: 19.517 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.6	18.0	54.0





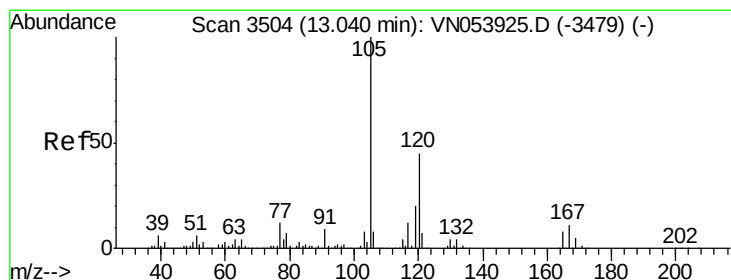
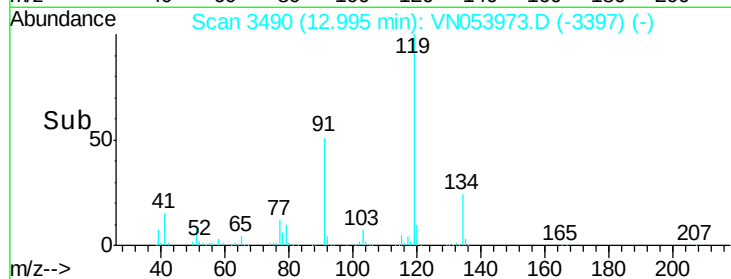
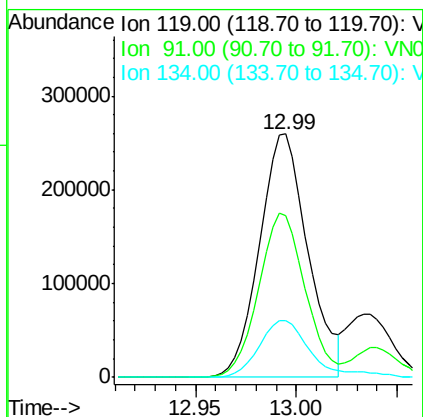
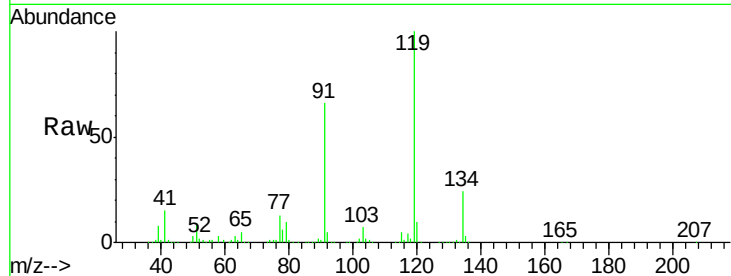
#83
 tert-Butylbenzene
 Concen: 19.386 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	434965		
91	64.6		30.6	91.8
134	25.2		13.0	39.0

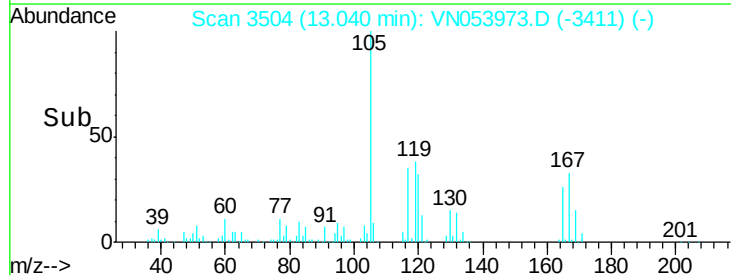
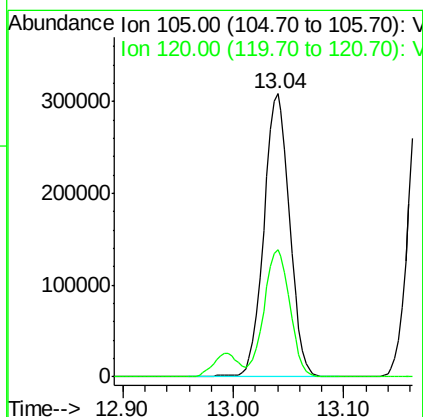
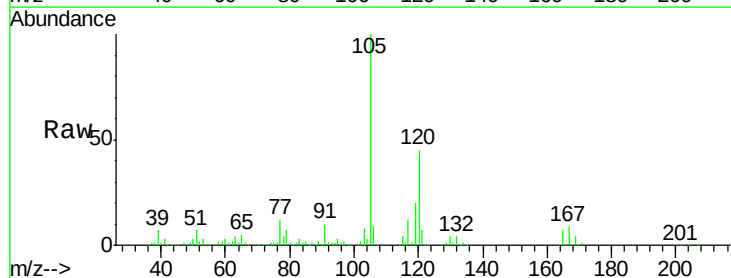
Manual Integrations
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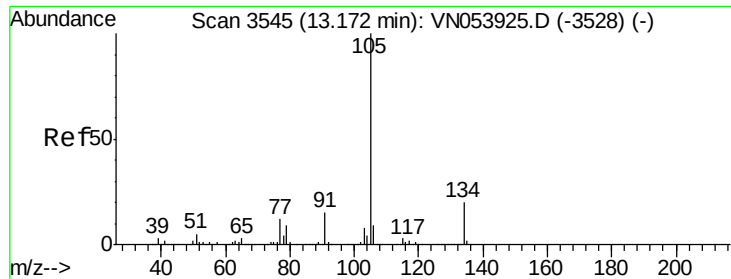
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 19.681 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	498436		
120	45.0		23.2	69.5





#85

sec-Butylbenzene

Concen: 19.792 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBS01

Tot Ion:105 Resp: 606513

Ion Ratio Lower Upper

105 100

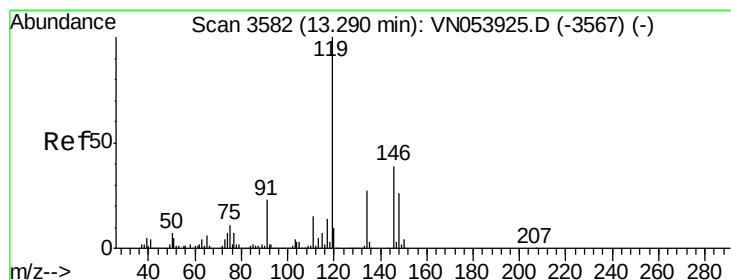
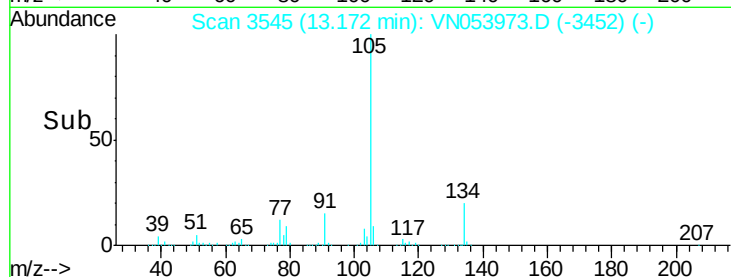
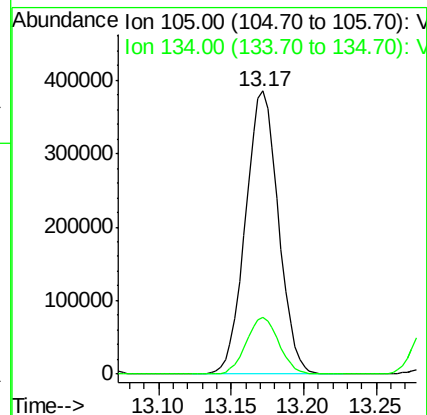
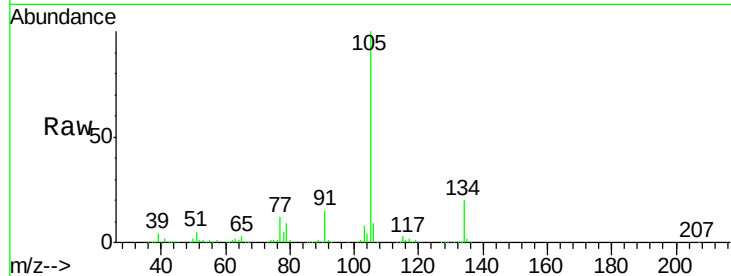
134 19.8 10.4 31.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 19.852 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

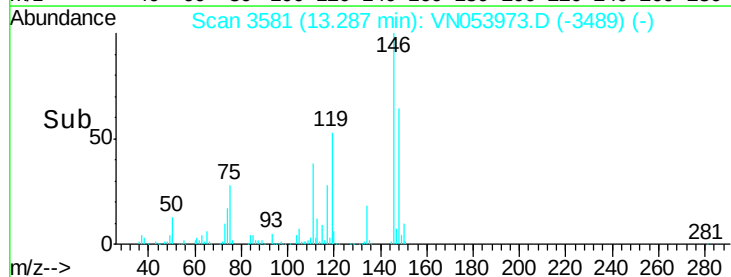
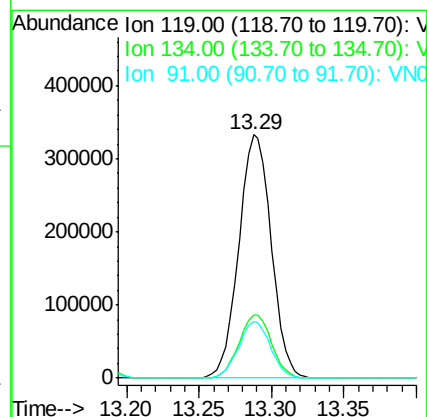
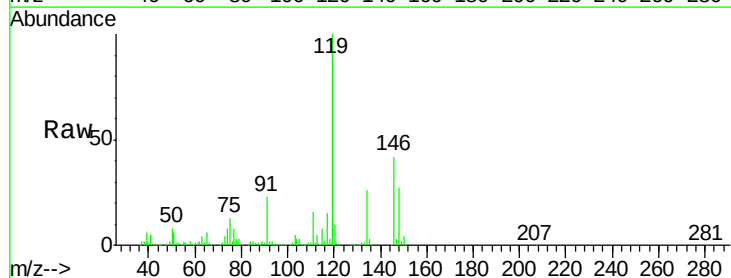
Tgt Ion:119 Resp: 514301

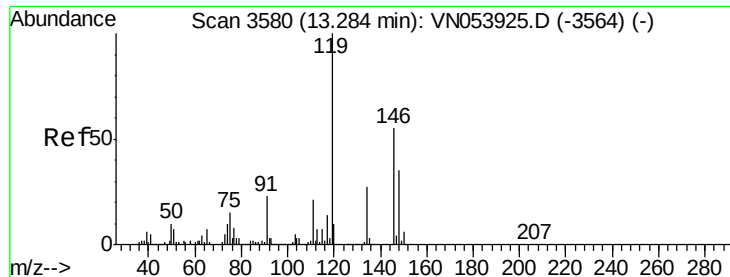
Ion Ratio Lower Upper

119 100

134 26.3 13.5 40.4

91 22.8 10.9 32.6





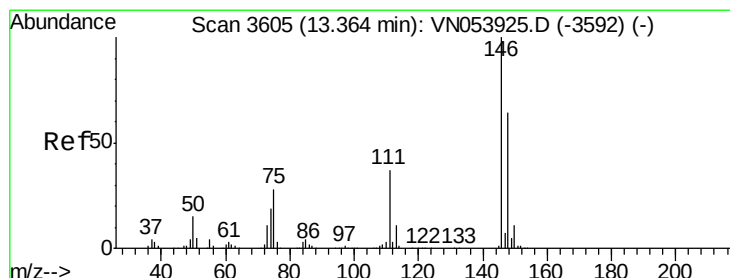
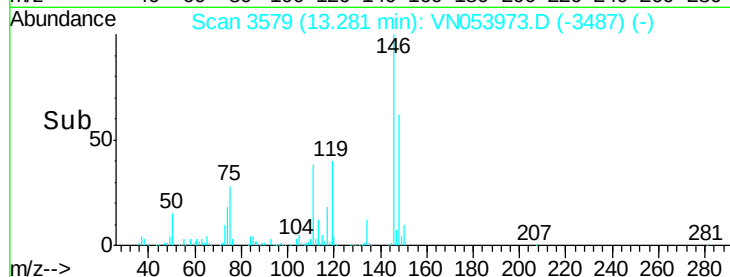
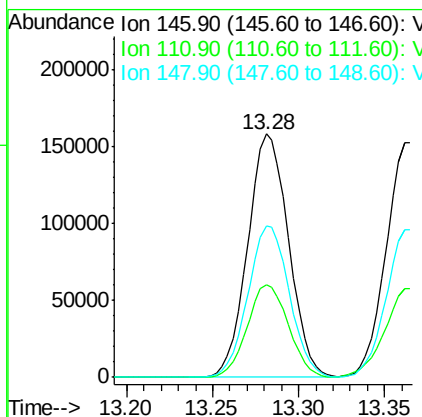
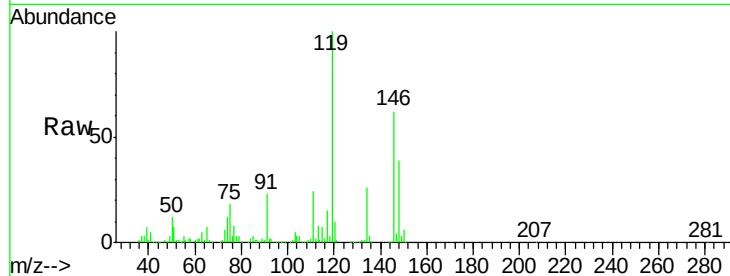
#87
 1,3-Dichlorobenzene
 Concen: 19.127 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	260315		
111	38.4	18.7	56.1	
148	63.2	32.0	96.2	

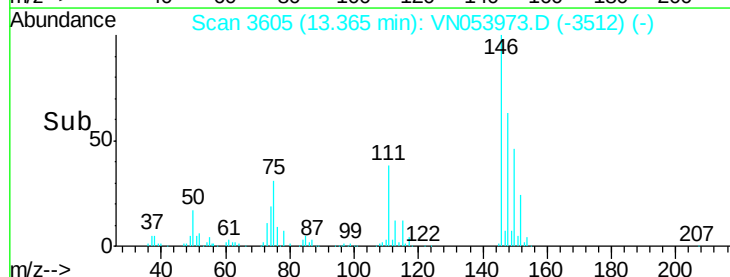
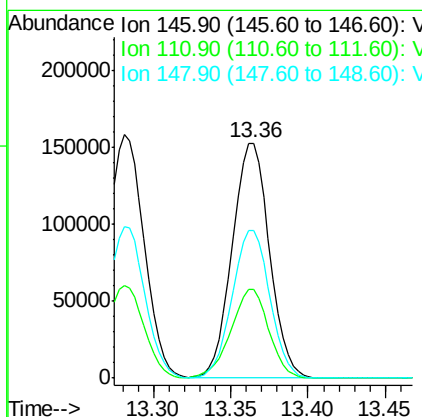
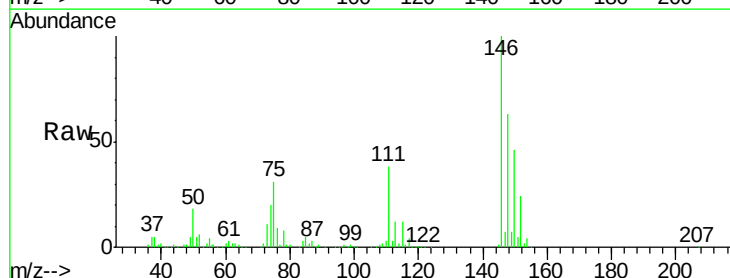
Manual Integrations
 APPROVED

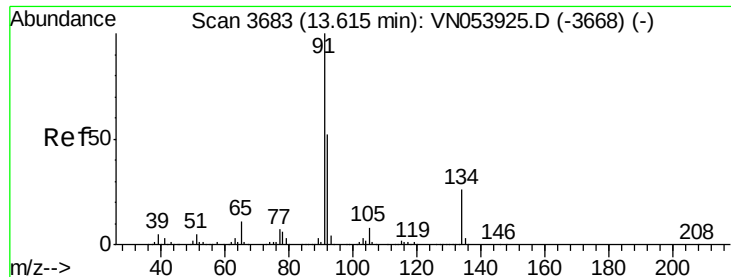
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 2/28/2019 2:55:33 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.377 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	255853		
111	38.6	18.0	54.0	
148	63.5	32.1	96.5	





#89

n-Butylbenzene

Concen: 20.073 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

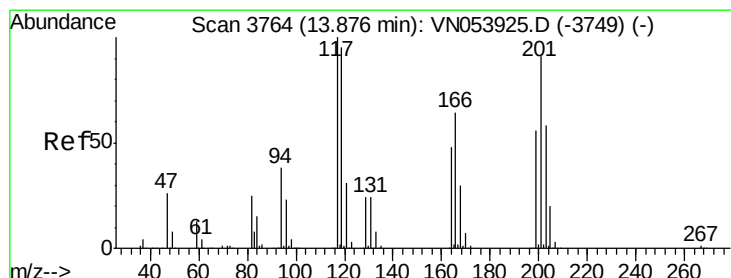
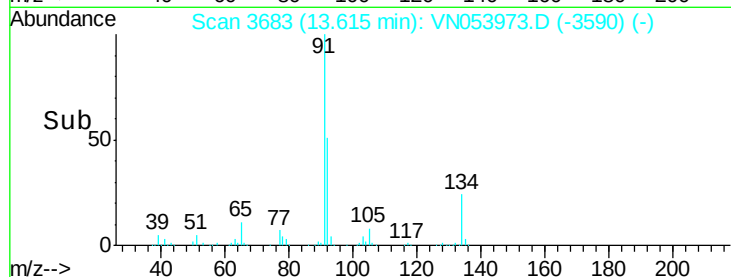
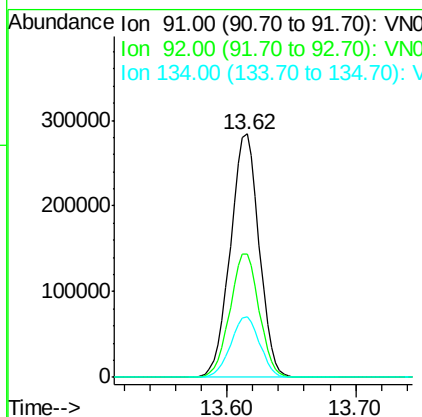
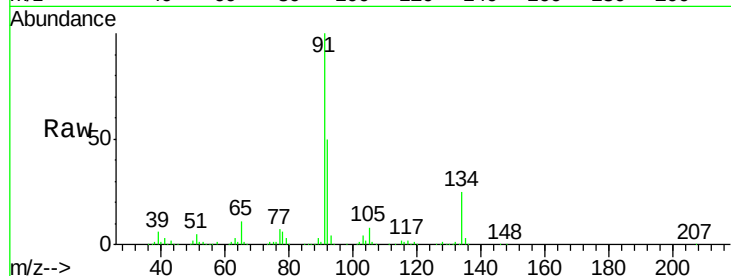
ClientSampleId :

VN0227WBS01

Tot Ion:	91	Resp:	438246
Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.1	78.2
134	25.2	13.6	40.8

Manual Integrations
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#90

Hexachloroethane

Concen: 17.867 ug/l

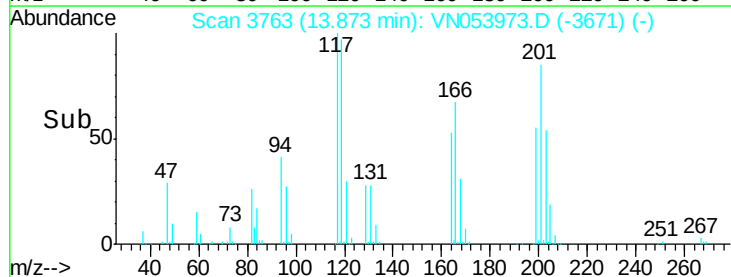
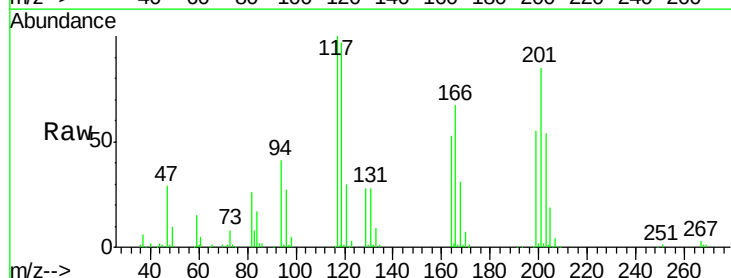
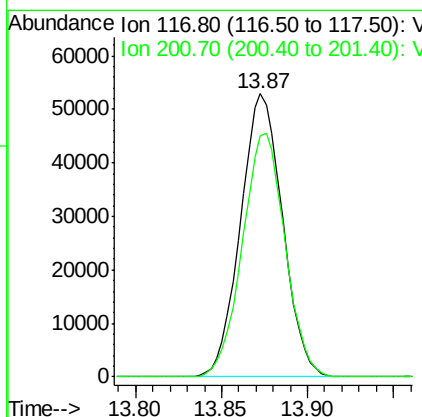
RT: 13.87 min Scan# 3763

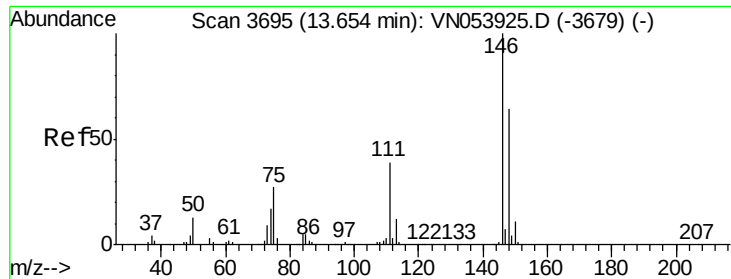
Delta R.T. -0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Tgt Ion:	117	Resp:	89695
Ion	Ratio	Lower	Upper
117	100		
201	87.2	48.0	144.2





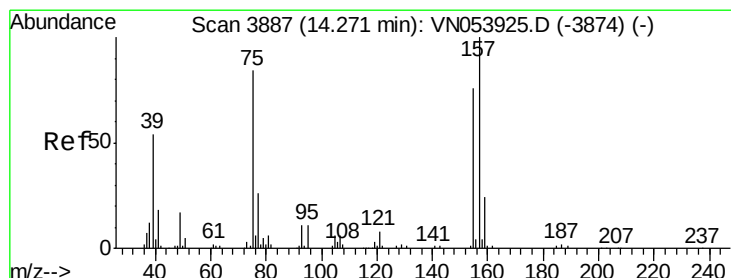
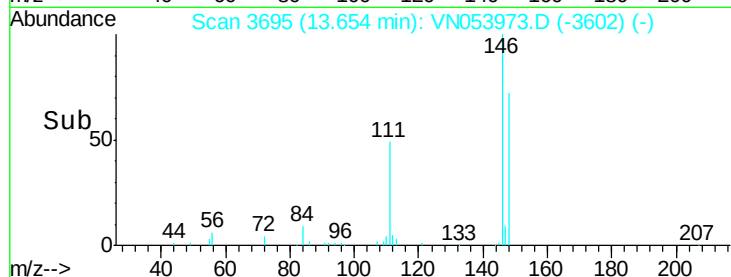
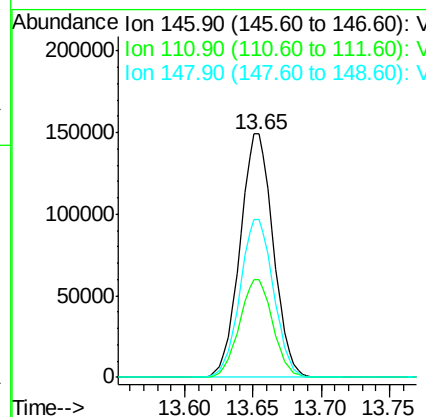
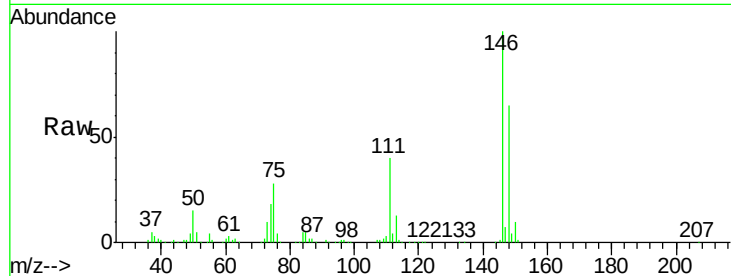
#91
 1,2-Dichlorobenzene
 Concen: 19.120 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.1	57.5
148	65.3	32.1	96.5

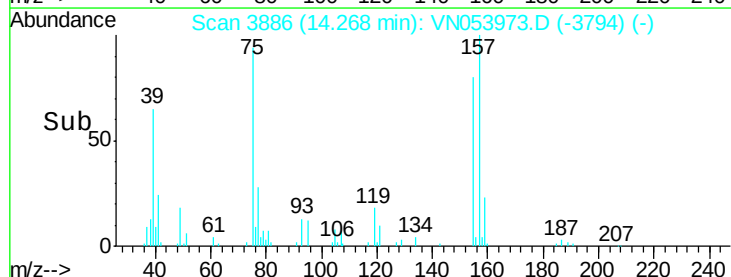
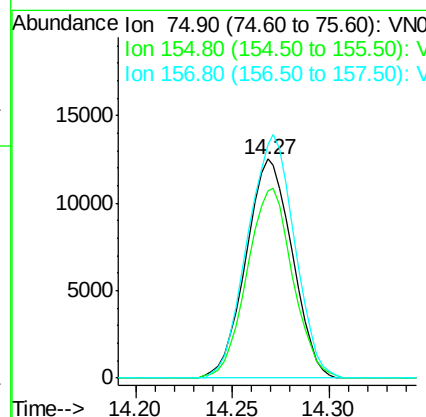
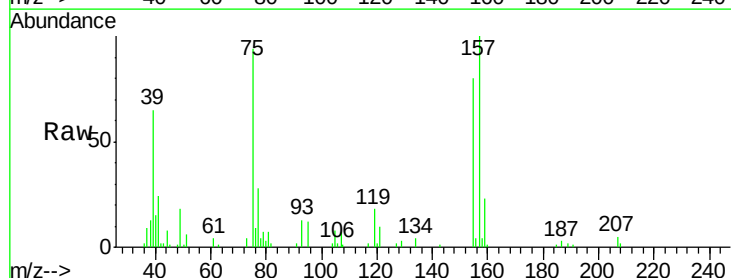
Manual Integrations
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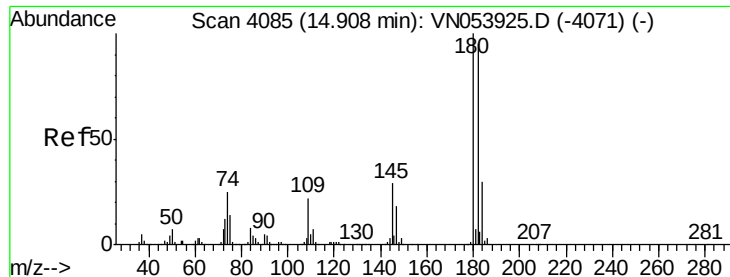
MMDadoda
 2/28/2019 2:55:33 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.028 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053973.D
 Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.4	49.5	148.5
157	112.5	64.8	194.6





#93

1,2,4-Trichlorobenzene

Concen: 18.640 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Instrument :

MSVOA_N

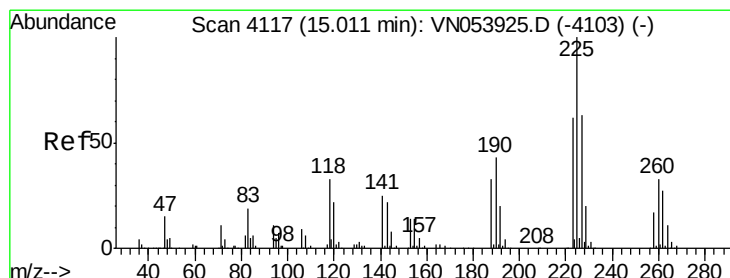
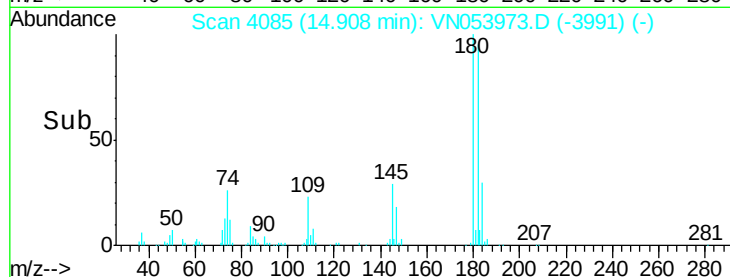
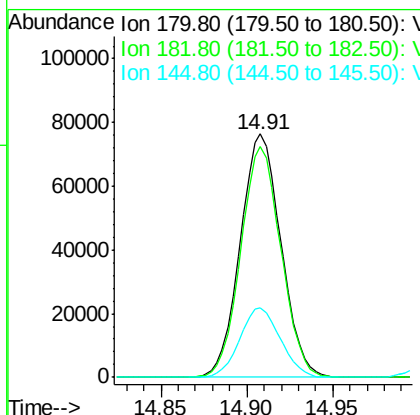
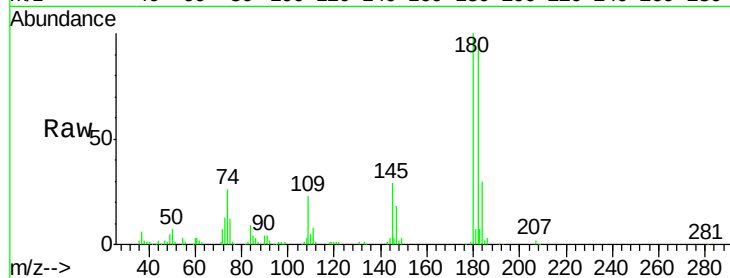
ClientSampleId :

VN0227WBS01

Tot Ion:	180	Resp:	125713
Ion Ratio	Lower	Upper	
180	100		
182	93.3	48.6	145.9
145	28.5	13.8	41.3

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:33 PM



#94

Hexachlorobutadiene

Concen: 20.173 ug/l

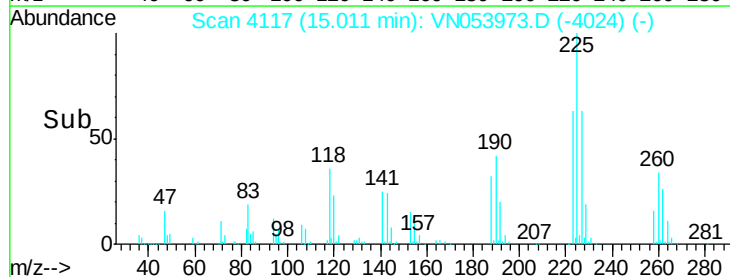
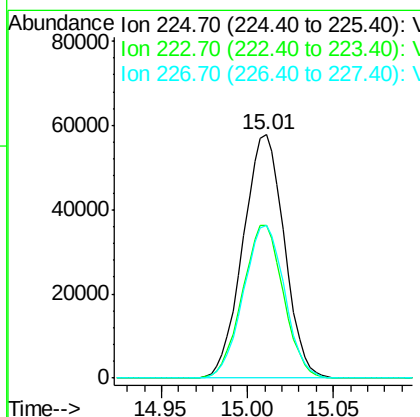
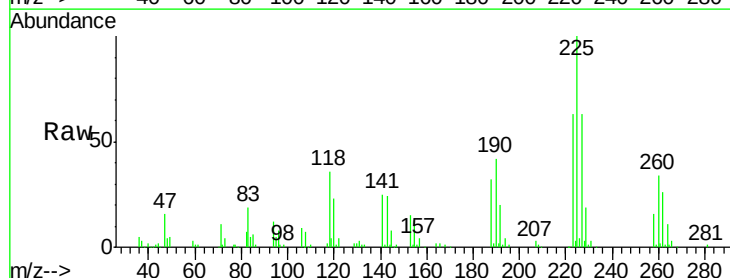
RT: 15.01 min Scan# 4117

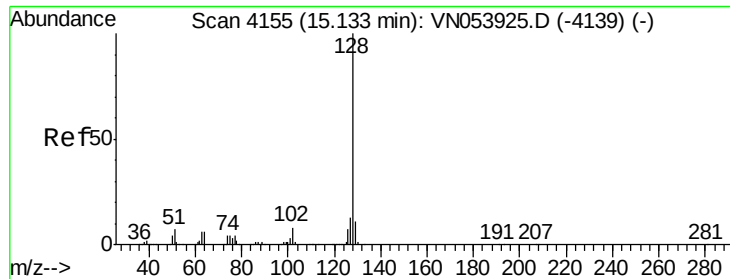
Delta R.T. 0.00 min

Lab File: VN053973.D

Acq: 27 Feb 2019 17:30

Tgt Ion:	225	Resp:	96004
Ion Ratio	Lower	Upper	
225	100		
223	62.2	30.9	92.5
227	62.6	32.5	97.4





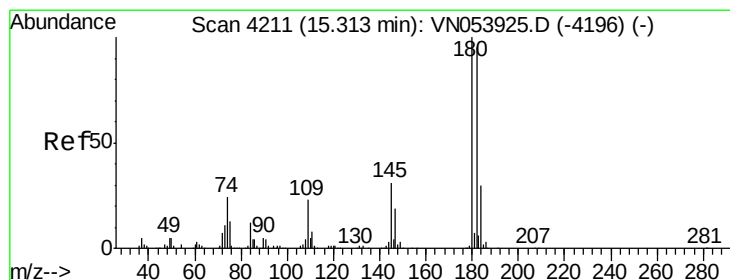
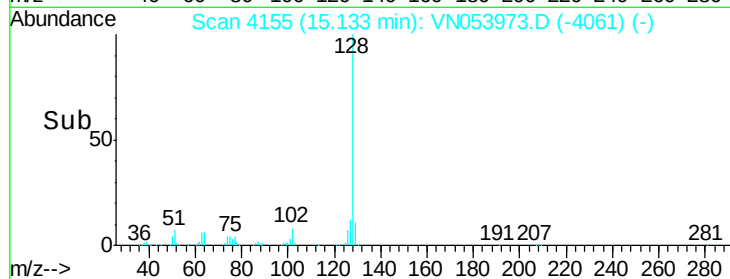
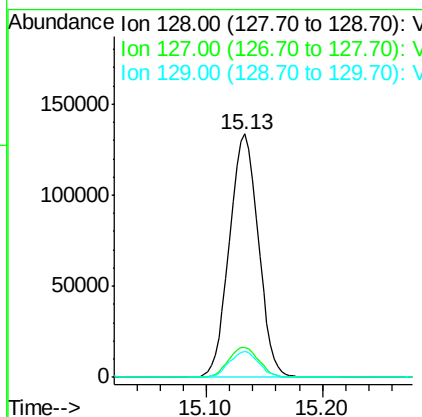
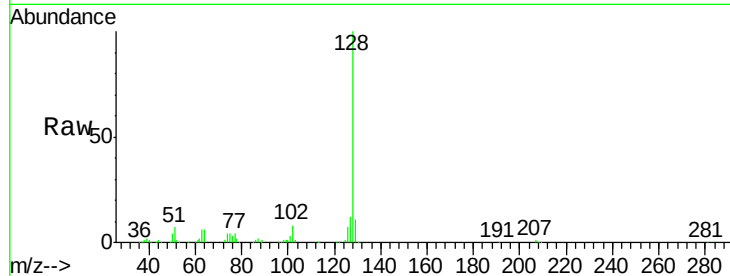
#95
Naphthalene
Concen: 16.897 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	230513		
127	13.0		10.2	15.2
129	10.8		8.6	12.8

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:33 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.518 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053973.D
Acq: 27 Feb 2019 17:30

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	122863		
182	95.0		47.3	141.8
145	30.5		14.4	43.0

