

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\
 Data File : VN053971.D
 Acq On : 27 Feb 2019 16:12
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

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 2/28/2019 2:55:27 PM

Quant Time: Feb 28 07:27:58 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	680625	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1061785	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	938318	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	445772	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	361794	45.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.70%	
35) Dibromofluoromethane	7.59	113	323290	47.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.16%	
50) Toluene-d8	10.09	98	1219394	47.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.42%	
62) 4-Bromofluorobenzene	12.40	95	419794	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	310213	49.524	ug/l	99
3) Chloromethane	2.06	50	424018	48.801	ug/l	100
4) Vinyl Chloride	2.19	62	418956	48.125	ug/l	100
5) Bromomethane	2.57	94	260313	45.150	ug/l	100
6) Chloroethane	2.71	64	253723	46.863	ug/l	99
7) Trichlorofluoromethane	3.02	101	535767	48.174	ug/l	98
8) Diethyl Ether	3.41	74	201850	48.443	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.76	101	345548	49.194	ug/l	95
10) Methyl Iodide	3.95	142	473447	51.296	ug/l	97
11) Tert butyl alcohol	4.77	59	114384	226.151	ug/l	99
12) 1,1-Dichloroethene	3.74	96	319182	47.506	ug/l	92
13) Acrolein	3.61	56	113401	216.555	ug/l	100
14) Allyl chloride	4.32	41	597640	50.715	ug/l	96
15) Acrylonitrile	4.98	53	661005	247.963	ug/l	99
16) Acetone	3.81	43	586045	278.891	ug/l	96
17) Carbon Disulfide	4.05	76	989776	45.664	ug/l	98
18) Methyl Acetate	4.32	43	273904	49.097	ug/l	94
19) Methyl tert-butyl Ether	5.04	73	893909	49.596	ug/l	98
20) Methylene Chloride	4.55	84	371669	47.068	ug/l	89
21) trans-1,2-Dichloroethene	5.04	96	350242	48.163	ug/l	92
22) Diisopropyl ether	5.95	45	1178007	51.816	ug/l	95
23) Vinyl Acetate	5.89	43	4216667	257.828	ug/l	95
24) 1,1-Dichloroethane	5.85	63	683604	49.034	ug/l	99
25) 2-Butanone	6.83	43	794079	253.478	ug/l	96
26) 2,2-Dichloropropane	6.82	77	505811	51.067	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	395328	48.882	ug/l	93
28) Bromochloromethane	7.19	49	312793	49.016	ug/l	81
29) Tetrahydrofuran	7.21	42	508737	243.860	ug/l	92
30) Chloroform	7.37	83	650765	48.139	ug/l	100
31) Cyclohexane	7.65	56	654395	51.301	ug/l	93
32) 1,1,1-Trichloroethane	7.57	97	544320	48.834	ug/l	97
36) 1,1-Dichloropropene	7.79	75	512143	51.867	ug/l	97
37) Ethyl Acetate	6.92	43	339737	48.186	ug/l	97
38) Carbon Tetrachloride	7.77	117	481868	46.922	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	636908	53.515	ug/l	95
40) Benzene	8.04	78	1534648	50.592	ug/l	99
41) Methacrylonitrile	7.17	41	187591	41.320	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	473949	50.467	ug/l	97
43) Isopropyl Acetate	8.16	43	588221	49.412	ug/l #	90
44) Trichloroethene	8.83	130	399250	49.646	ug/l	95
45) 1,2-Dichloropropane	9.12	63	416225	50.859	ug/l	99
46) Dibromomethane	9.21	93	235616	49.590	ug/l	92
47) Bromodichloromethane	9.40	83	505925	50.527	ug/l	99
48) Methyl methacrylate	9.20	41	284311	51.923	ug/l	93
49) 1,4-Dioxane	9.20	88	72991	984.187	ug/l #	90
51) 4-Methyl-2-Pentanone	9.98	43	1618161	264.524	ug/l	95
52) Toluene	10.15	92	921069	51.567	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	512056	52.559	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	600760	52.307	ug/l	93
55) 1,1,2-Trichloroethane	10.56	97	327773	49.137	ug/l	98
56) Ethyl methacrylate	10.43	69	418468	47.928	ug/l	90
57) 1,3-Dichloropropane	10.71	76	572981	50.837	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	983710	242.029	ug/l	95
59) 2-Hexanone	10.75	43	1063792	267.382	ug/l	94
60) Dibromochloromethane	10.90	129	367220	49.534	ug/l	99
61) 1,2-Dibromoethane	11.00	107	316525	49.189	ug/l	99
64) Tetrachloroethene	10.63	164	392675	49.421	ug/l	97
65) Chlorobenzene	11.43	112	982241	49.601	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	352847	49.439	ug/l	99
67) Ethyl Benzene	11.51	91	1725534	51.977	ug/l	98
68) m/p-Xylenes	11.62	106	1313316	104.816	ug/l	96
69) o-Xylene	11.95	106	629236	51.110	ug/l	97
70) Styrene	11.96	104	1037916	54.811	ug/l	99
71) Bromoform	12.13	173	244605	49.264	ug/l #	100
73) Isopropylbenzene	12.25	105	1669881	48.123	ug/l	99
74) N-amyl acetate	12.07	43	469455	51.618	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	393867	45.390	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	353015m	49.366	ug/l	
77) Bromobenzene	12.53	156	414926	47.096	ug/l	90
78) n-propylbenzene	12.59	91	1998424	50.640	ug/l	97
79) 2-Chlorotoluene	12.67	91	1162297	49.029	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	1444121	50.835	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	106102	46.896	ug/l	91
82) 4-Chlorotoluene	12.77	91	1182252	50.459	ug/l	97
83) tert-Butylbenzene	12.99	119	1221371	48.611	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	1460079	51.482	ug/l	98
85) sec-Butylbenzene	13.17	105	1721752	50.173	ug/l	99
86) p-Isopropyltoluene	13.29	119	1491065	51.397	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	750803	49.263	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	743100	50.256	ug/l	99
89) n-Butylbenzene	13.61	91	1349876	55.212	ug/l	99
90) Hexachloroethane	13.87	117	261210	46.465	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	723942	49.070	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	57960	47.266	ug/l	88

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VSTDCCC050

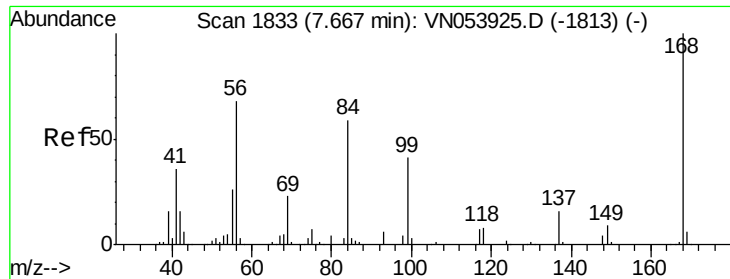
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	393543	48.119	ug/l	98
94) Hexachlorobutadiene	15.01	225	264600	49.650	ug/l	99
95) Naphthalene	15.13	128	775046	44.303	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	376648	47.989	ug/l	98

(#) = 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: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 680625

Ion Ratio Lower Upper

168 100

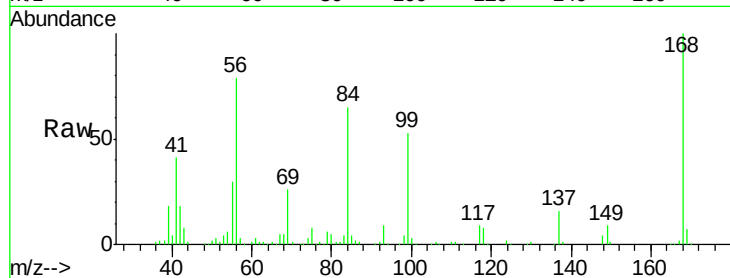
99 52.6 36.9 55.3

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

150000

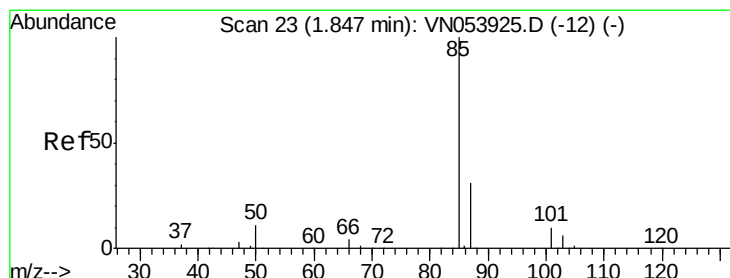
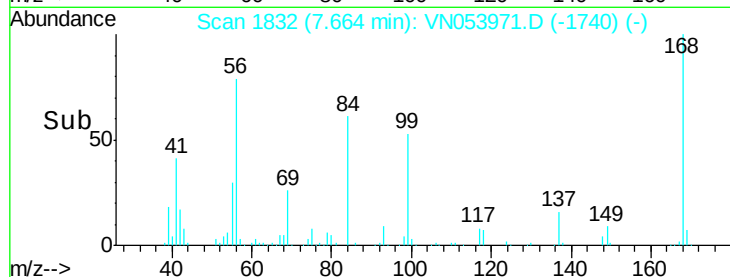
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 49.524 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN053971.D

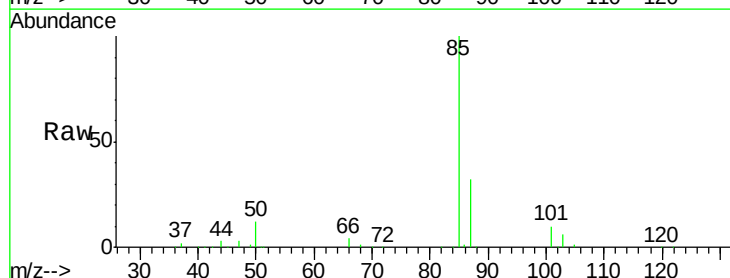
Acq: 27 Feb 2019 16:12

Tgt Ion: 85 Resp: 310213

Ion Ratio Lower Upper

85 100

87 32.0 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

250000

200000

150000

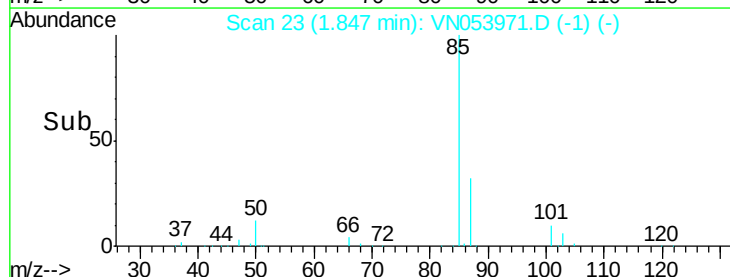
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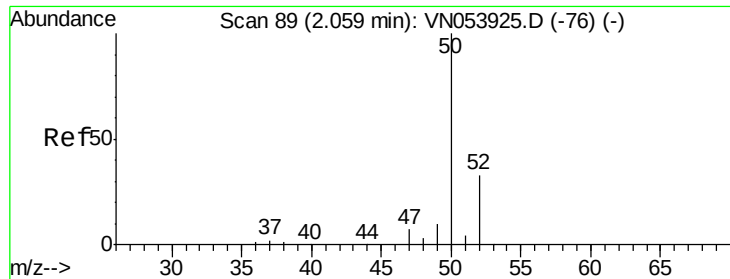
50000

0

1.80 1.90 2.00

Time-->





#3

Chloromethane

Concen: 48.801 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 424018

Ion Ratio Lower Upper

50 100

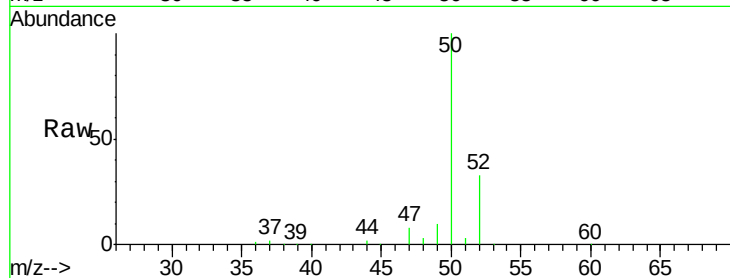
52 32.5 26.0 39.0

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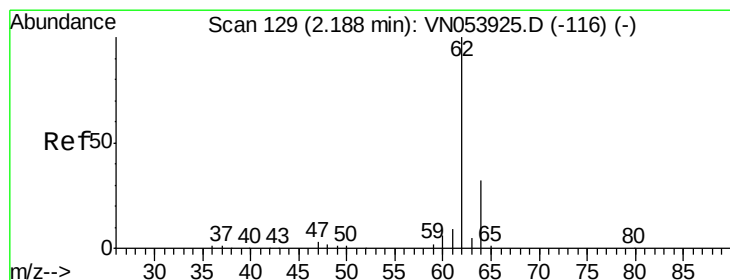
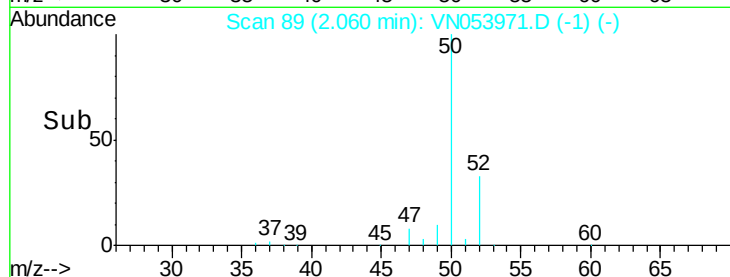
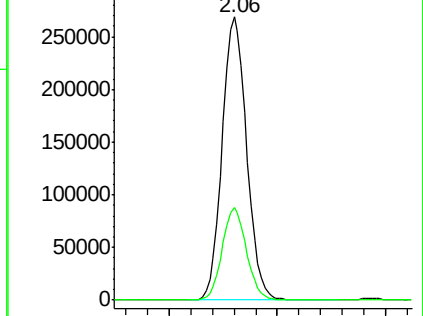
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 48.125 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053971.D

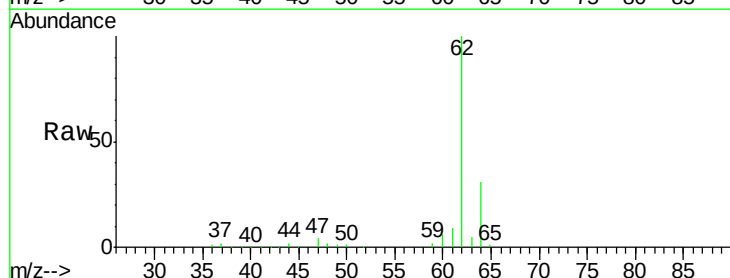
Acq: 27 Feb 2019 16:12

Tgt Ion: 62 Resp: 418956

Ion Ratio Lower Upper

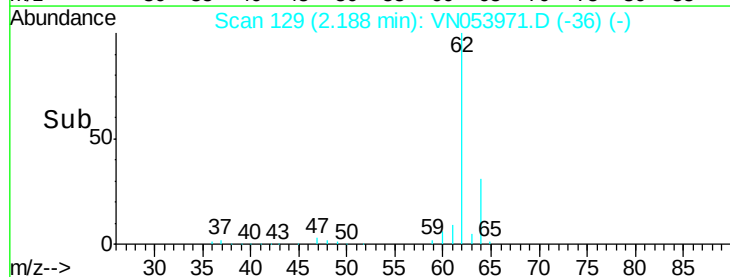
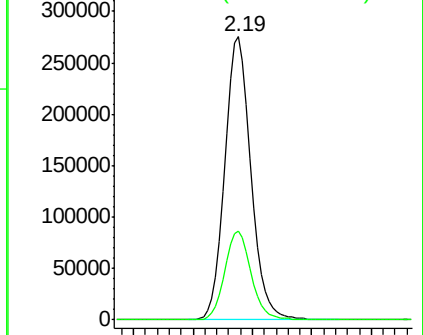
62 100

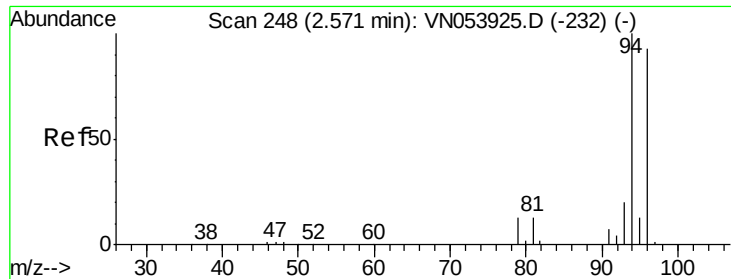
64 31.3 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 45.150 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 260313

Ion Ratio Lower Upper

94 100

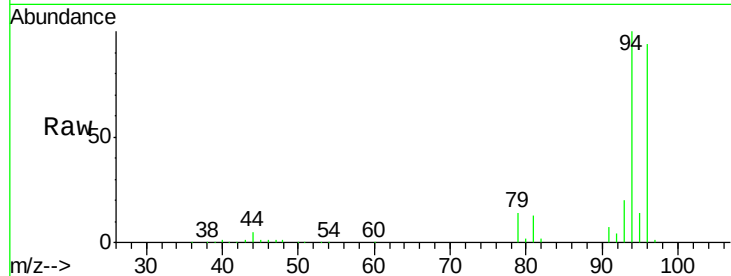
96 94.0 74.9 112.3

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN053971.D (-155) (-)

Ion 95.90 (95.60 to 96.60): VN053971.D (-155) (-)

2.57

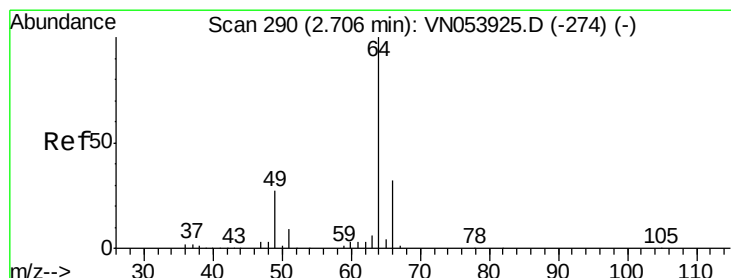
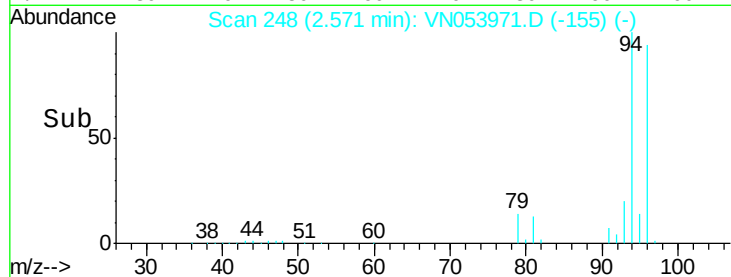
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 46.863 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053971.D

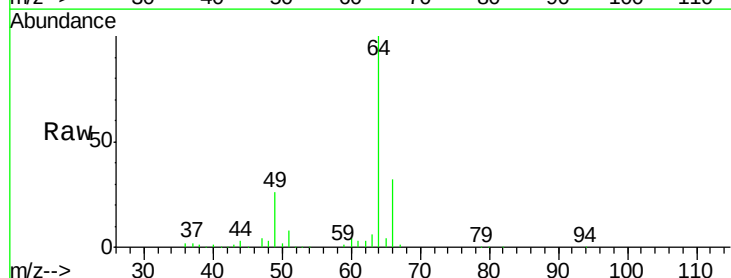
Acq: 27 Feb 2019 16:12

Tgt Ion: 64 Resp: 253723

Ion Ratio Lower Upper

64 100

66 32.3 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VN053971.D (-197) (-)

Ion 65.90 (65.60 to 66.60): VN053971.D (-197) (-)

2.71

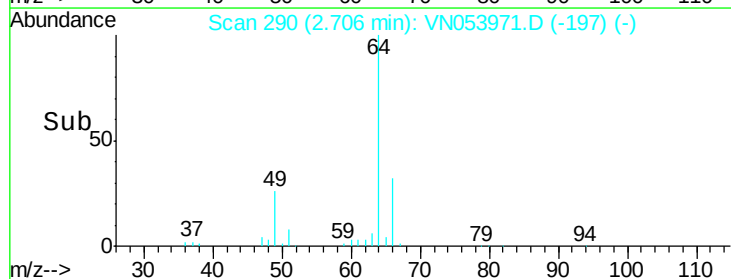
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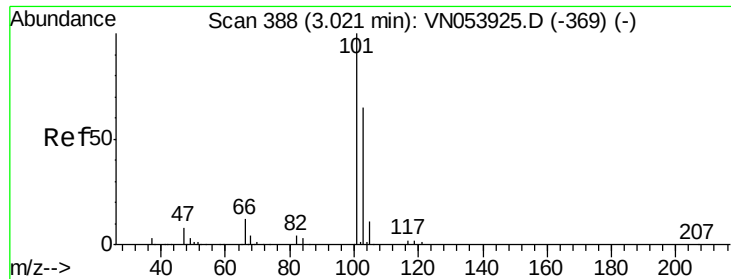
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50000

0

Time-->





#7

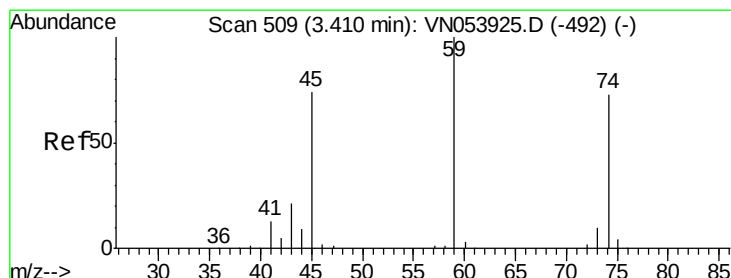
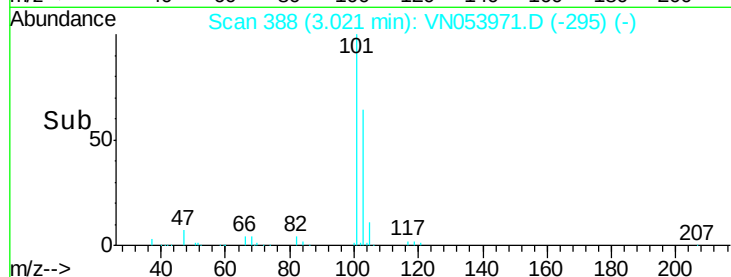
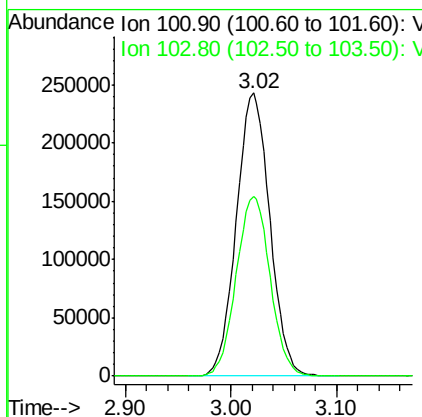
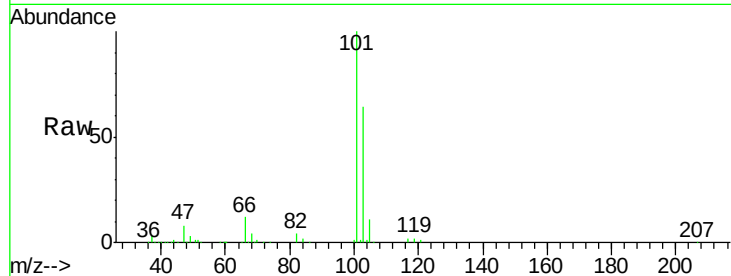
Trichlorofluoromethane
 Concen: 48.174 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
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 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.9	77.9

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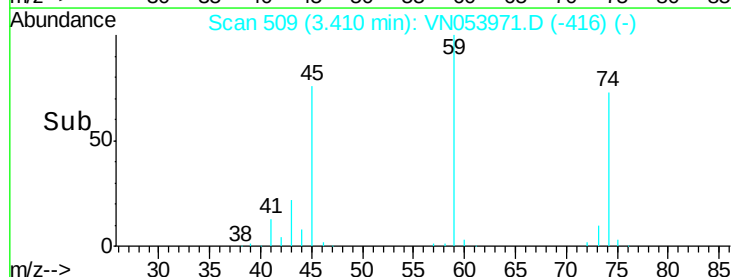
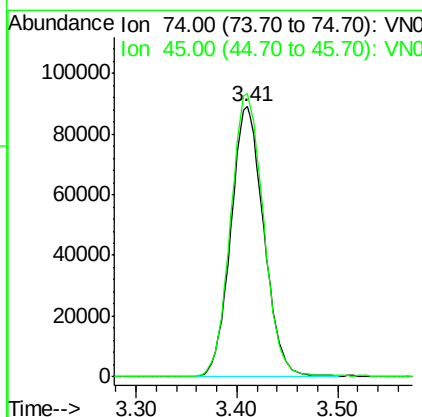
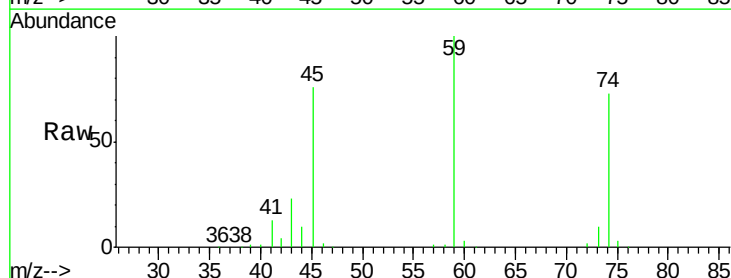
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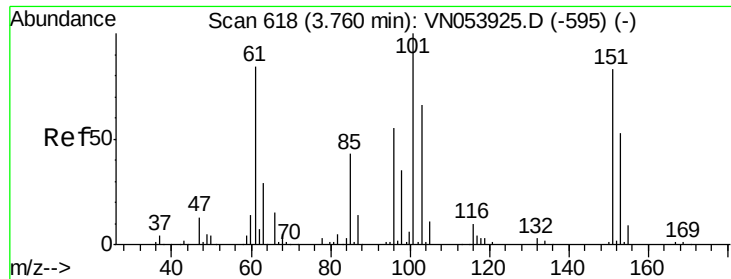


#8

Diethyl Ether
 Concen: 48.443 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.8	46.9	140.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.194 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

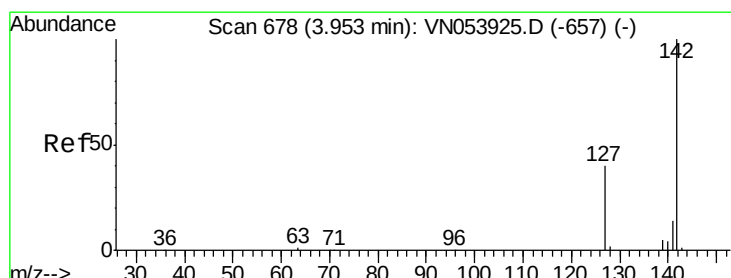
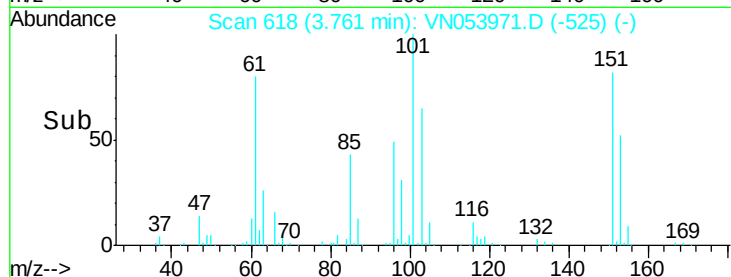
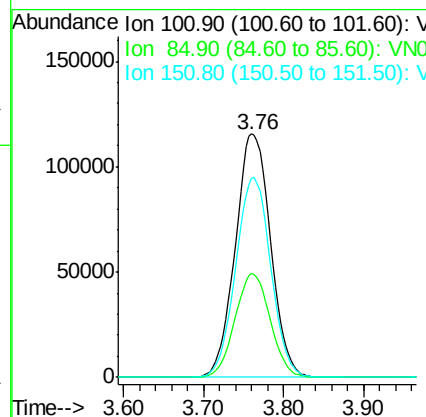
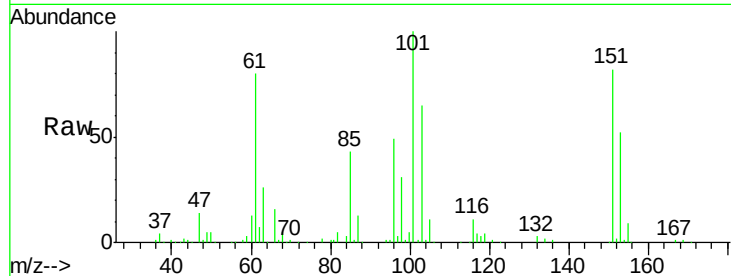
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	345548
Ion Ratio	Lower	Upper	
101	100		
85	42.5	32.5	48.7
151	81.7	70.2	105.2

Manual Integrations
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#10

Methyl Iodide

Concen: 51.296 ug/l

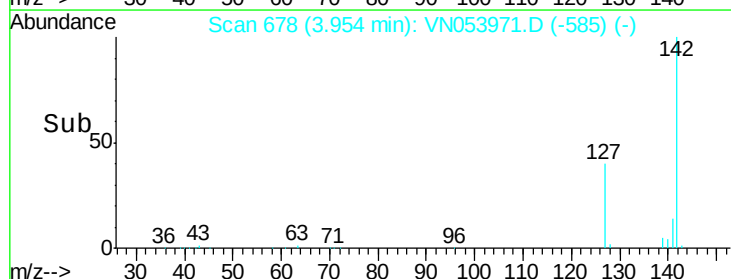
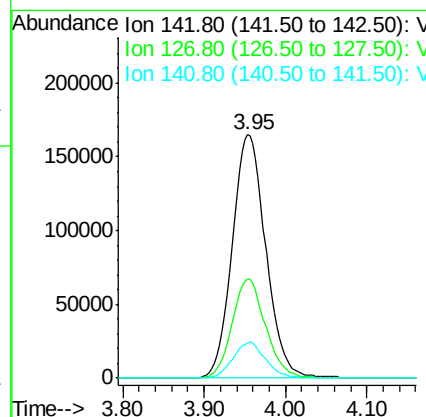
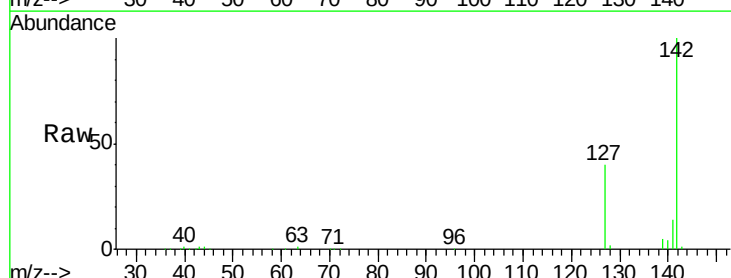
RT: 3.95 min Scan# 678

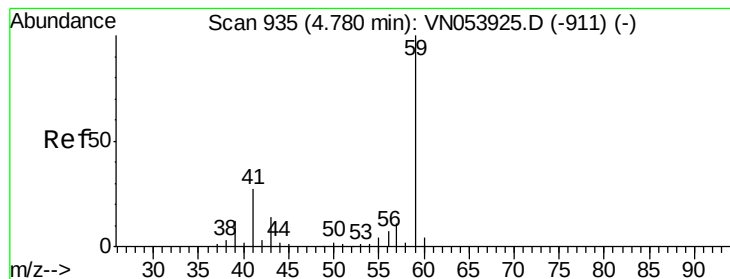
Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Tgt Ion:	142	Resp:	473447
Ion Ratio	Lower	Upper	
142	100		
127	40.8	31.0	46.4
141	14.4	11.3	16.9





#11

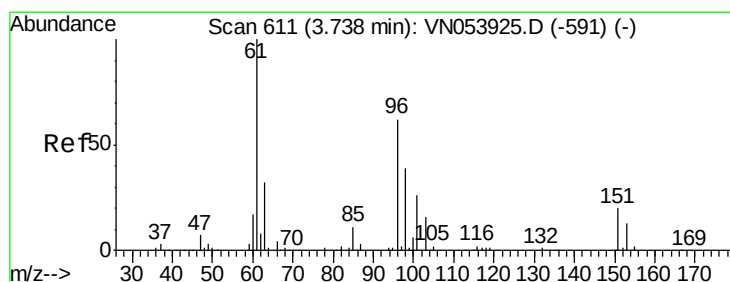
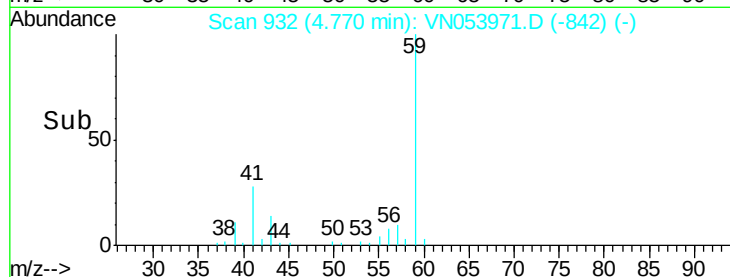
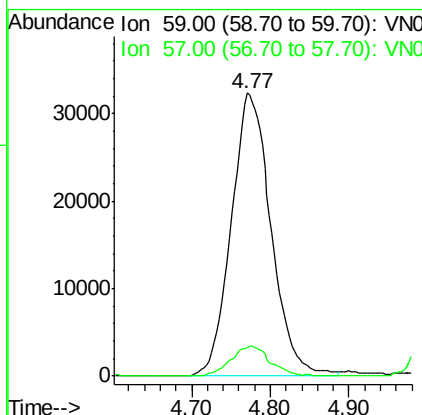
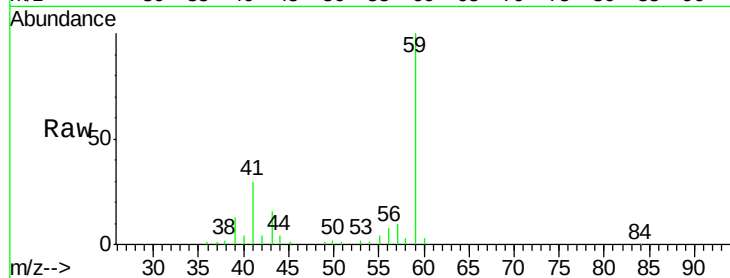
Tert butyl alcohol
 Concen: 226.151 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. -0.01 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
59	100	114384		
57	10.4		8.1	12.1

Manual Integrations
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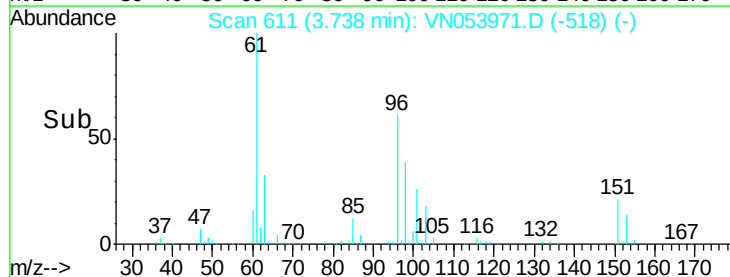
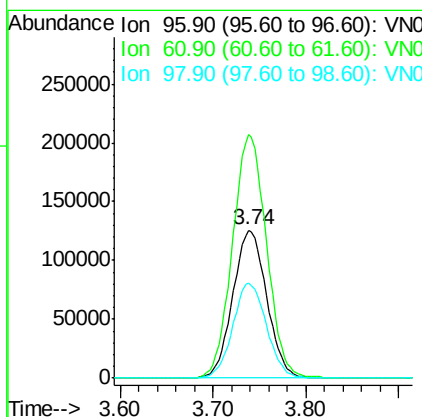
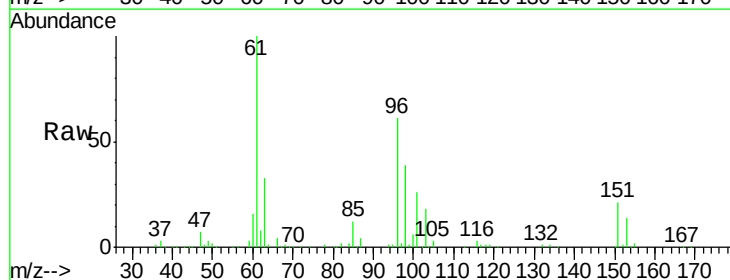
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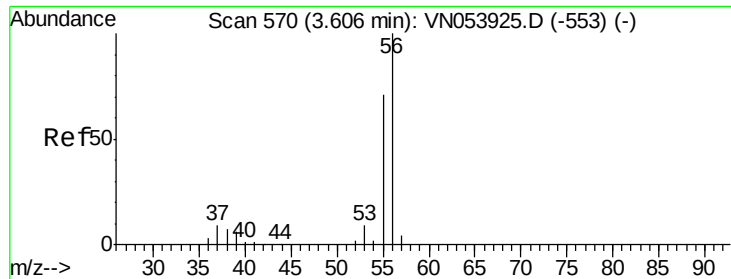


#12

1,1-Dichloroethene
 Concen: 47.506 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	319182		
61	164.9		121.0	181.4
98	64.7		52.2	78.2





#13

Acrolein

Concen: 216.555 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 113401

Ion Ratio Lower Upper

56 100

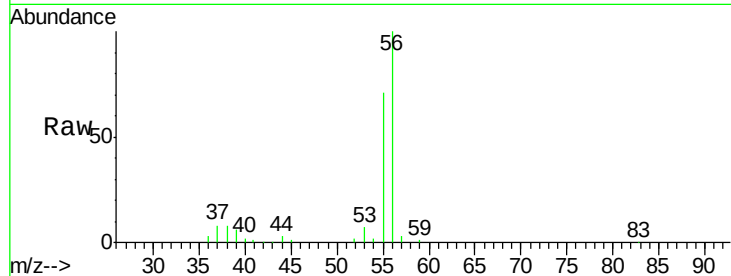
55 70.1 56.3 84.5

Manual Integrations

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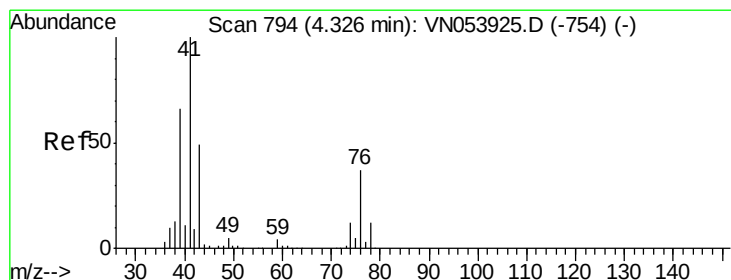
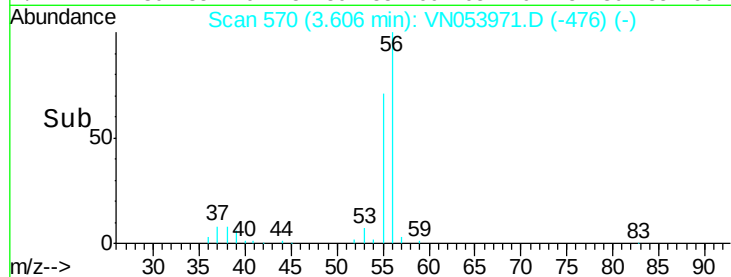
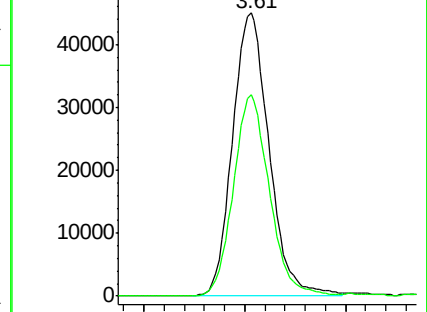
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 50.715 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

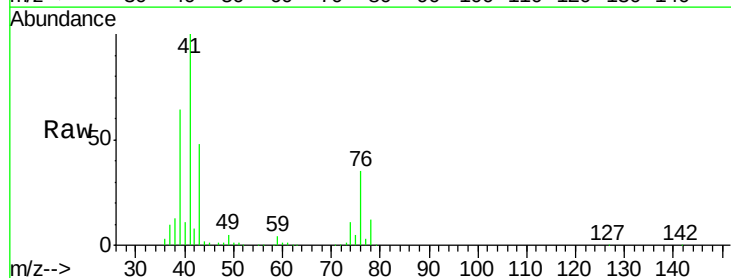
Tgt Ion: 41 Resp: 597640

Ion Ratio Lower Upper

41 100

39 62.0 48.8 73.2

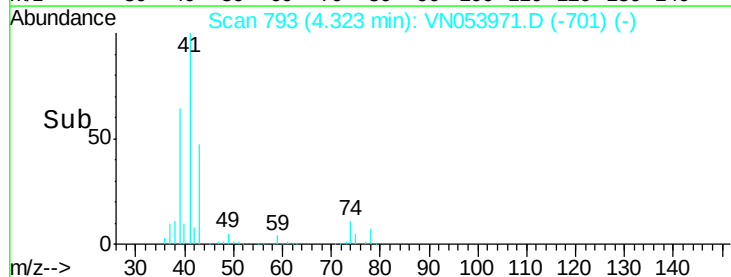
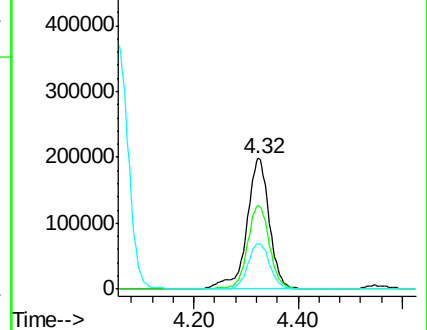
76 33.1 30.9 46.3

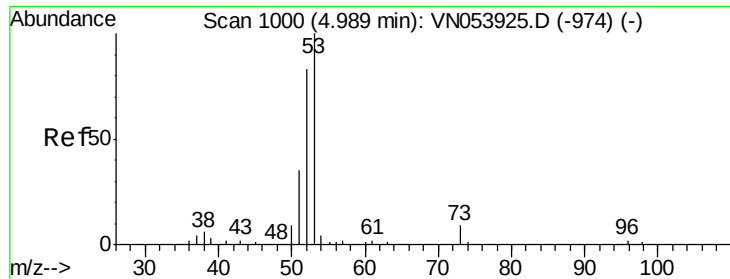


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





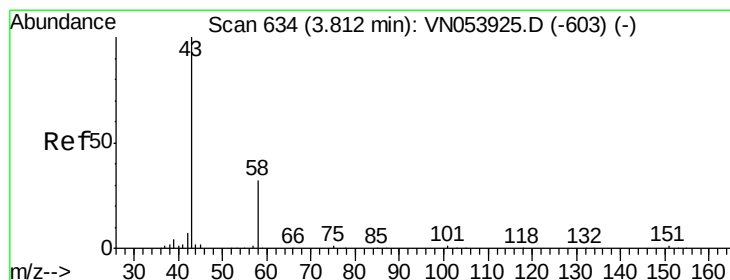
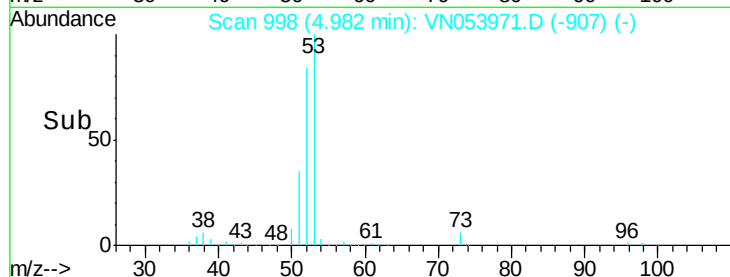
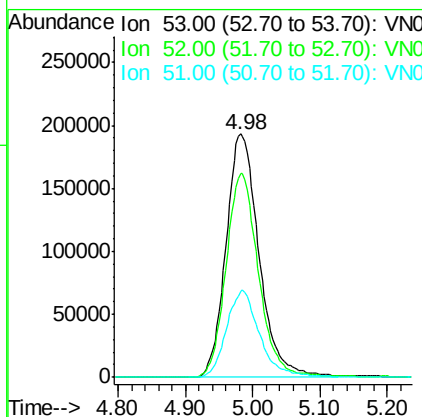
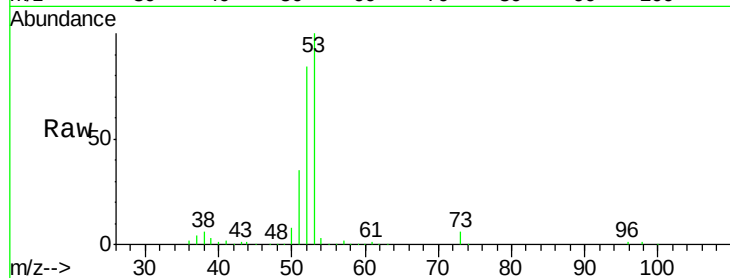
#15
 Acrylonitrile
 Concen: 247.963 ug/l
 RT: 4.98 min Scan# 998
 Delta R.T. -0.01 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	53	Resp	661005
Ion Ratio	100	Lower	Upper
53	100		
52	82.0	65.1	97.7
51	36.0	28.2	42.4

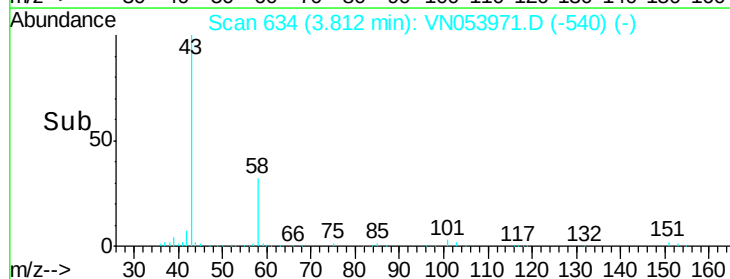
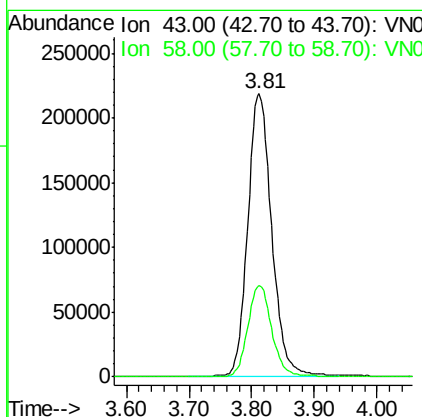
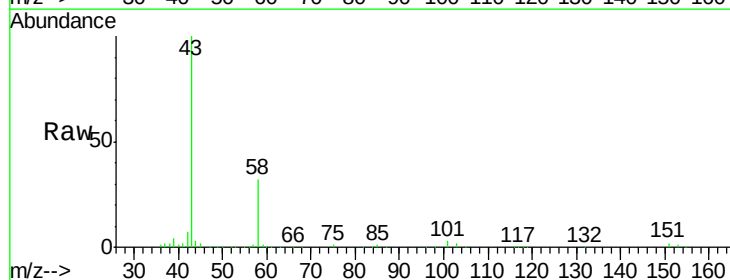
Manual Integrations
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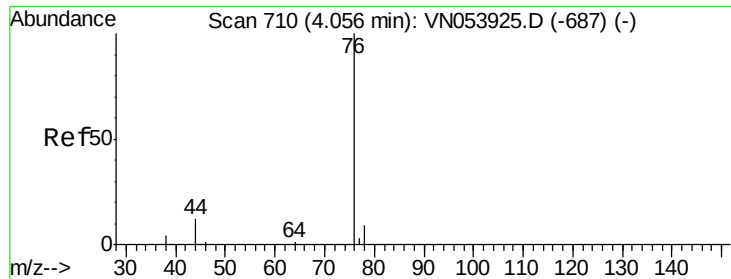
MMDadoda
 2/28/2019 2:55:27 PM



#16
 Acetone
 Concen: 278.891 ug/l
 RT: 3.81 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	43	Resp	586045
Ion Ratio	100	Lower	Upper
43	100		
58	32.3	27.6	41.4





#17

Carbon Disulfide

Concen: 45.664 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 989776

Ion Ratio Lower Upper

76 100

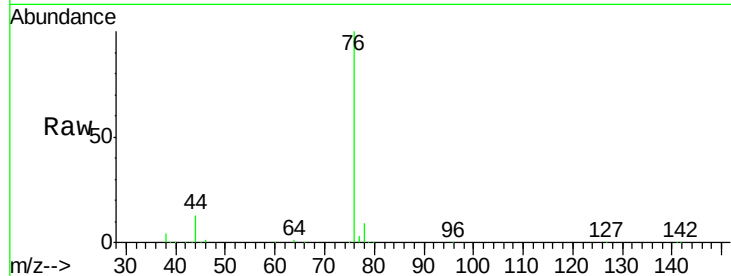
78 8.8 7.5 11.3

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

400000

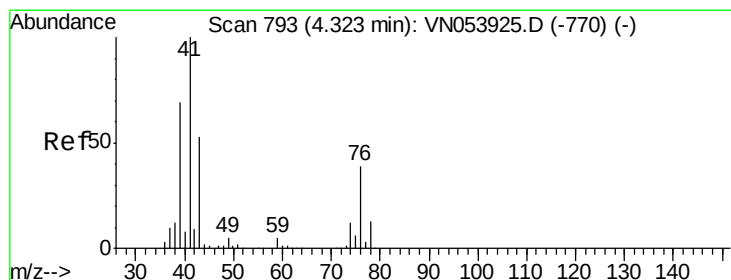
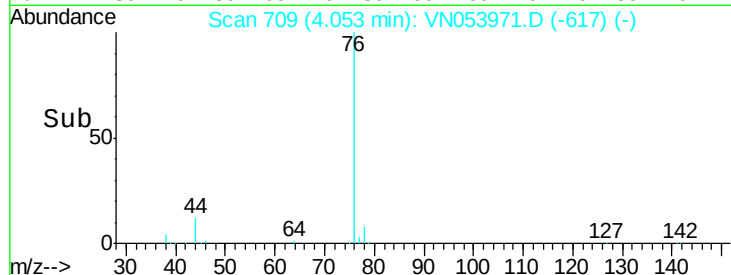
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 49.097 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN053971.D

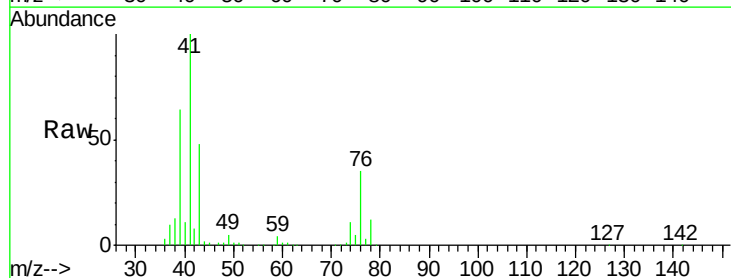
Acq: 27 Feb 2019 16:12

Tgt Ion: 43 Resp: 273904

Ion Ratio Lower Upper

43 100

74 22.5 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.32

100000

80000

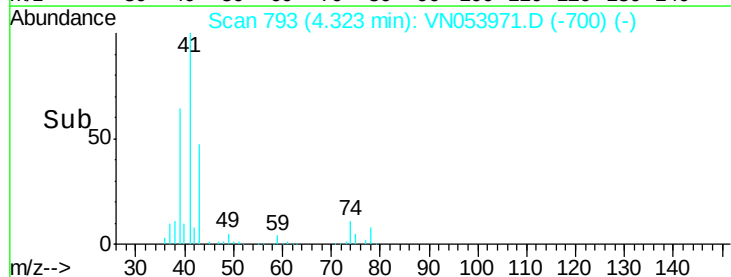
60000

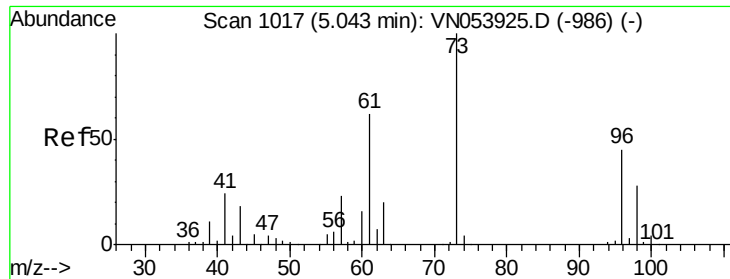
40000

20000

0

Time-->





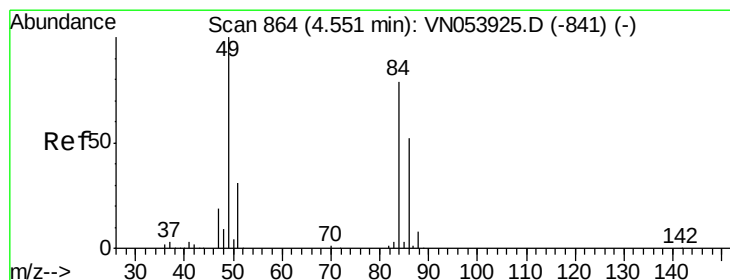
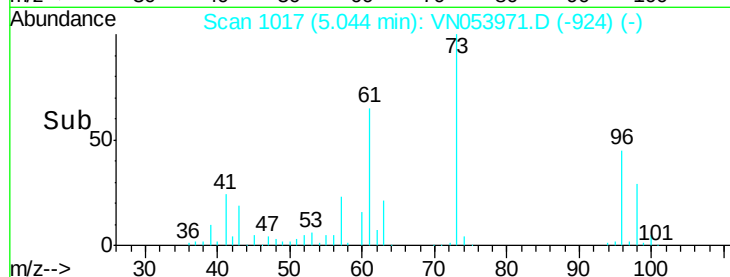
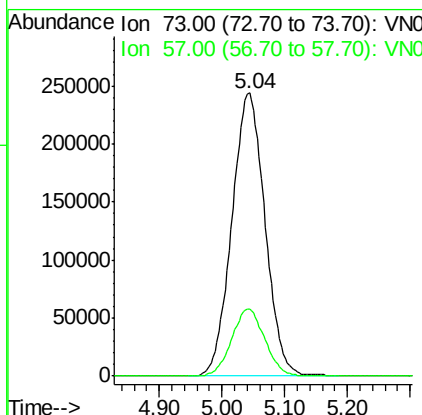
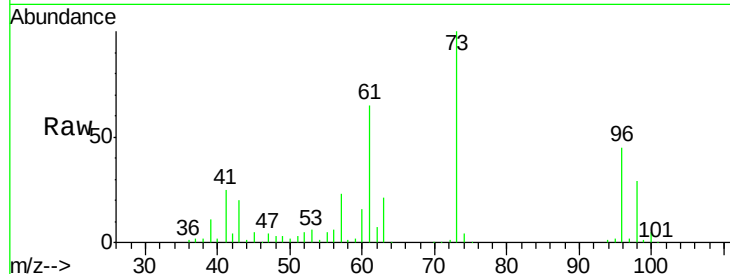
#19
Methyl tert-butyl Ether
Concen: 49.596 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 893909
Ion Ratio Lower Upper
73 100
57 23.5 18.0 27.0

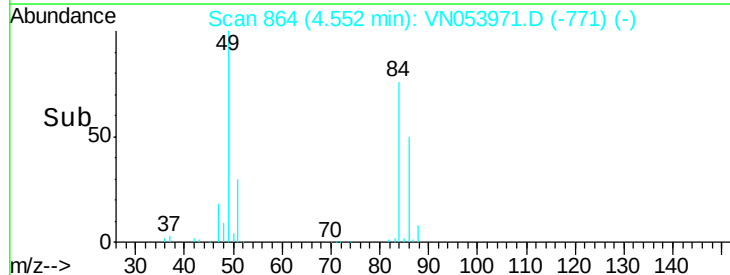
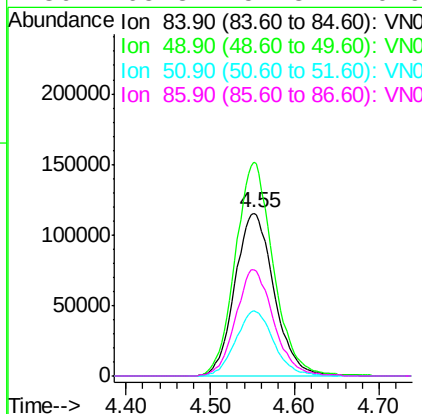
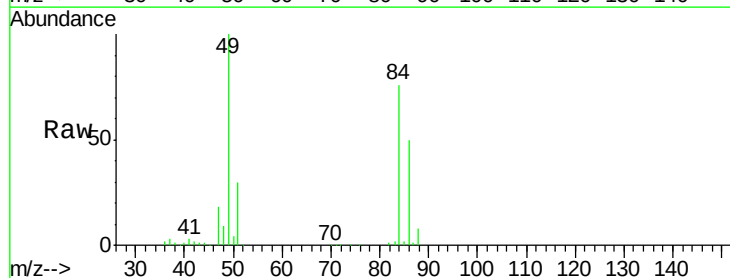
Manual Integrations
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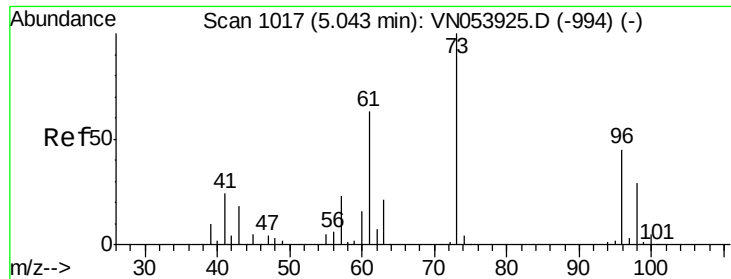
MMDadoda
2/28/2019 2:55:27 PM



#20
Methylene Chloride
Concen: 47.068 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion: 84 Resp: 371669
Ion Ratio Lower Upper
84 100
49 131.0 89.7 134.5
51 39.7 27.8 41.8
86 65.3 51.3 76.9





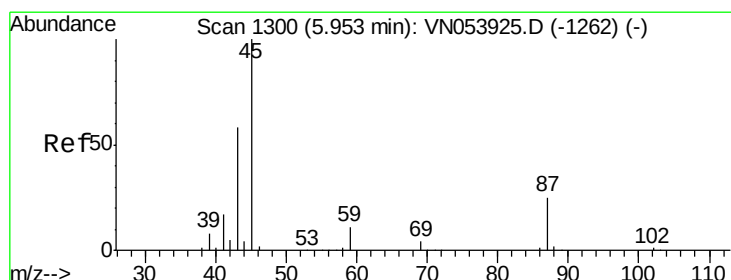
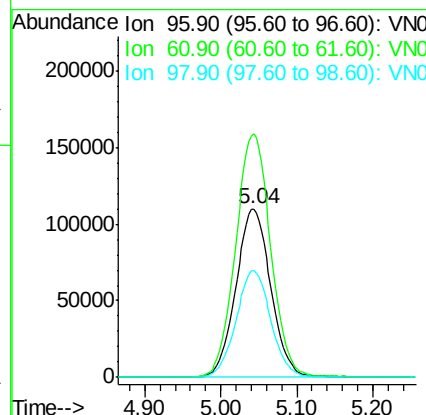
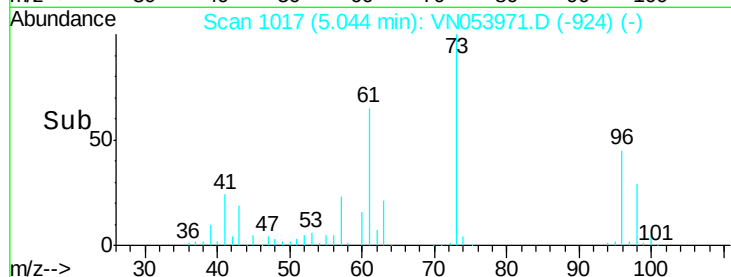
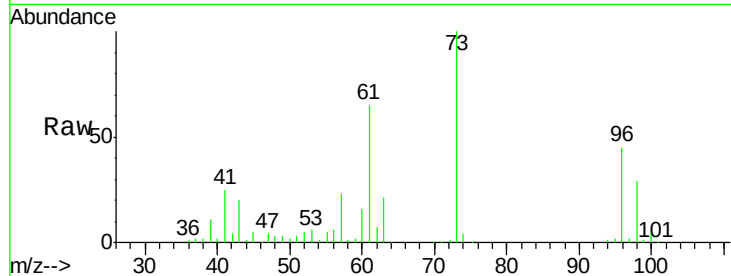
#21
trans-1,2-Dichloroethene
Concen: 48.163 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.4	104.5	156.7
98	63.4	50.6	76.0

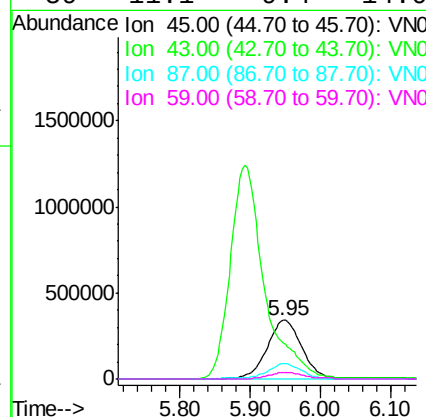
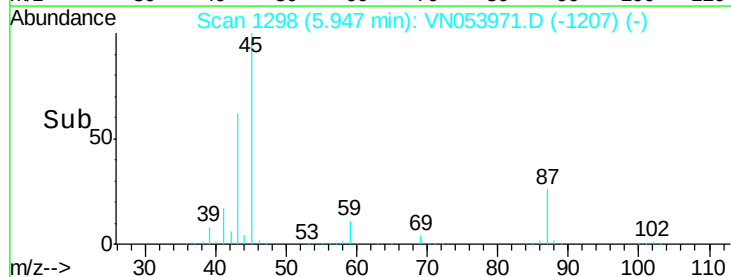
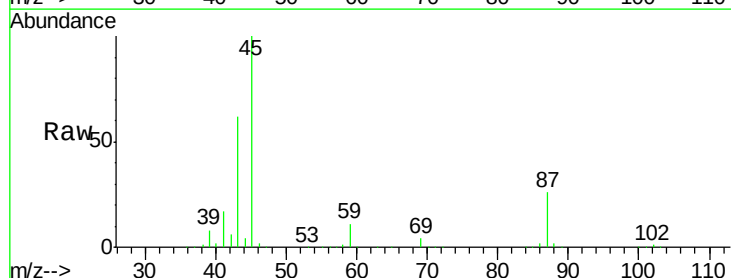
Manual Integrations
APPROVED

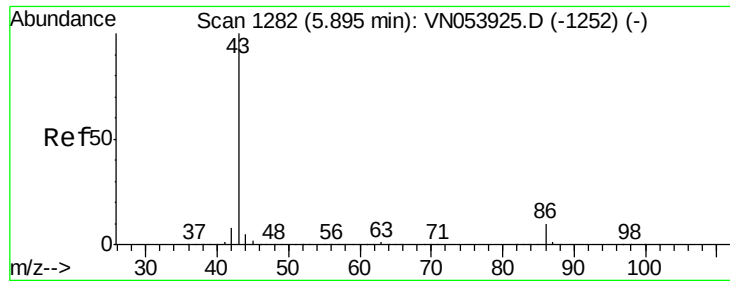
MMDadoda
2/28/2019 2:55:27 PM



#22
Diisopropyl ether
Concen: 51.816 ug/l
RT: 5.95 min Scan# 1298
Delta R.T. -0.01 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.9	46.2	69.4
87	25.7	23.4	35.0
59	11.1	9.4	14.0





#23

Vinyl Acetate

Concen: 257.828 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 4216667

Ion Ratio Lower Upper

43 100

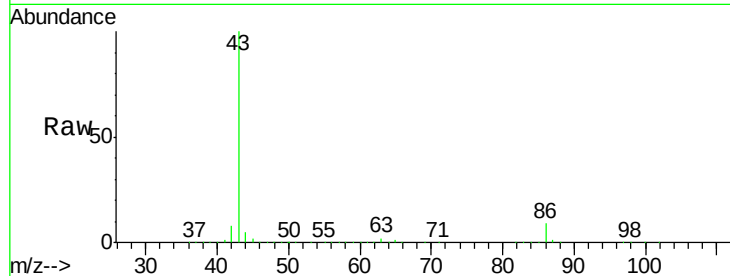
86 9.4 9.1 13.7

Manual Integrations

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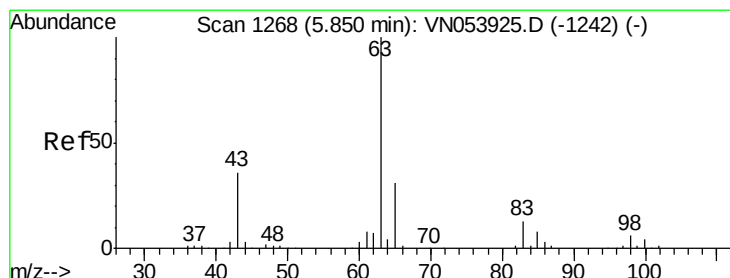
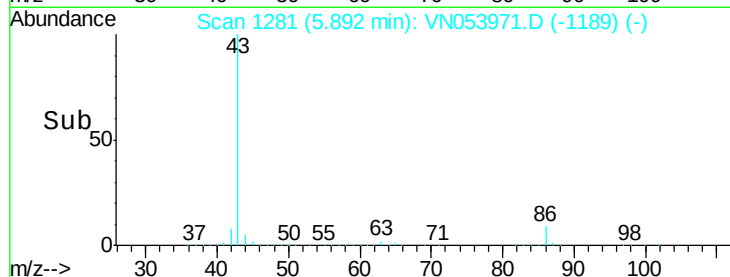
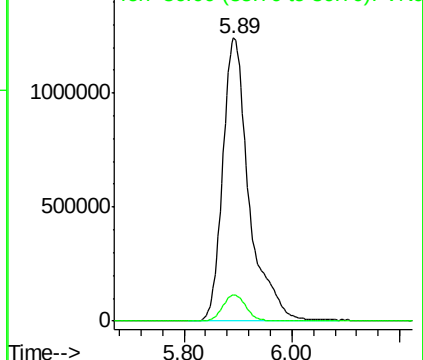
MMDadoda

2/28/2019 2:55:27 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 49.034 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

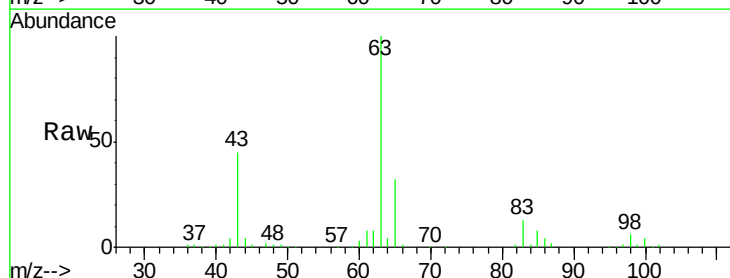
Tgt Ion: 63 Resp: 683604

Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.2

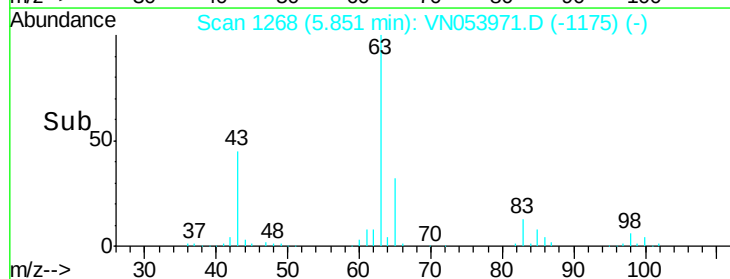
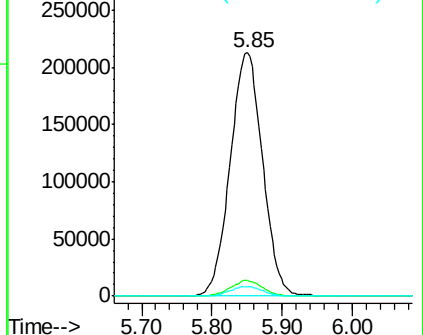
100 4.0 2.2 6.6

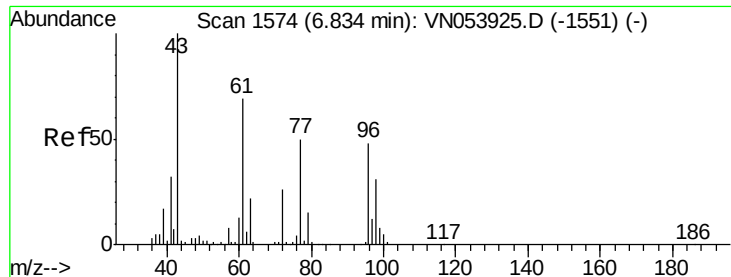


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





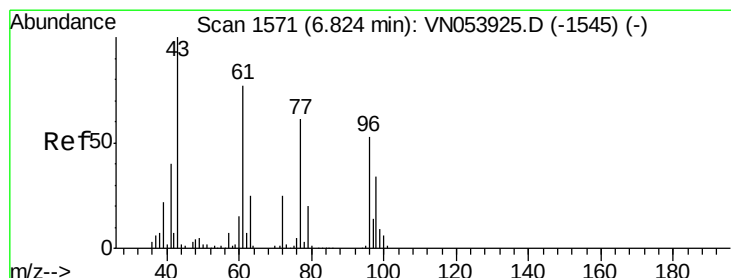
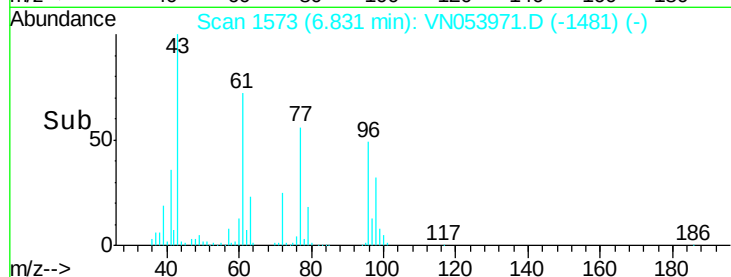
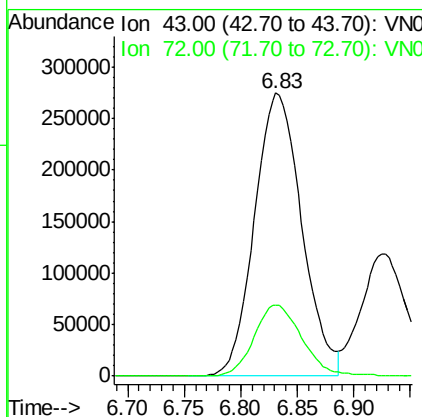
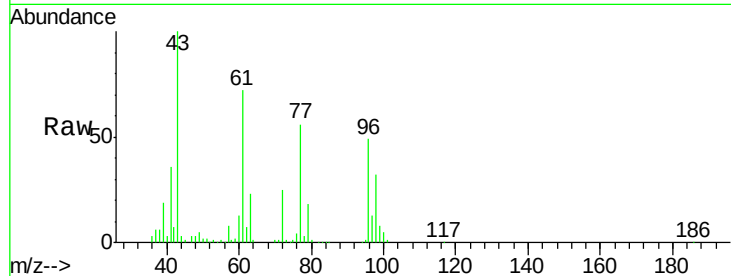
#25
2-Butanone
Concen: 253.478 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 794079
Ion Ratio Lower Upper
43 100
72 25.3 22.1 33.1

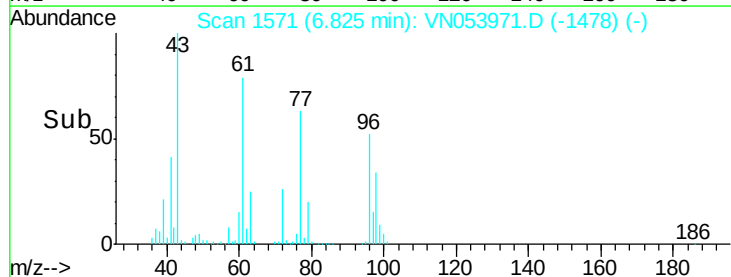
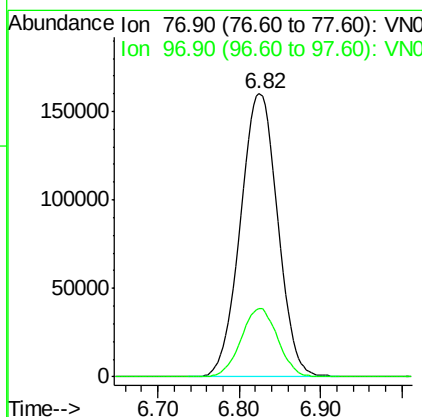
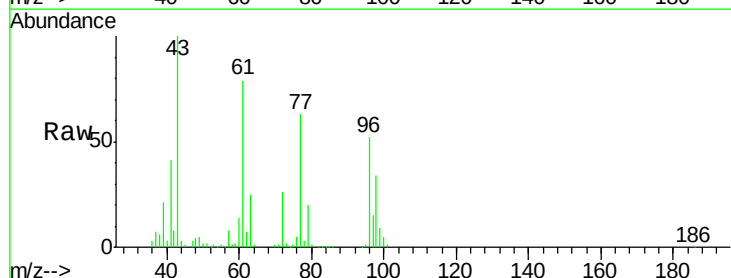
Manual Integrations
APPROVED

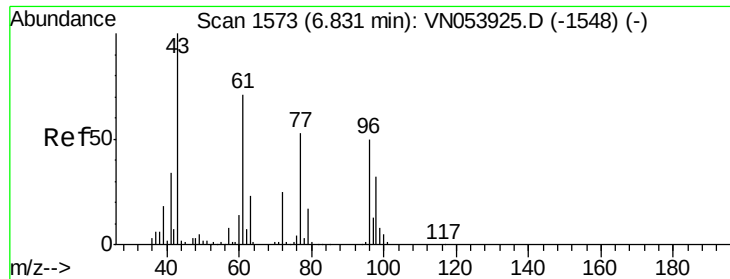
MMDadoda
2/28/2019 2:55:27 PM



#26
2,2-Dichloropropane
Concen: 51.067 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion: 77 Resp: 505811
Ion Ratio Lower Upper
77 100
97 23.8 12.3 36.9





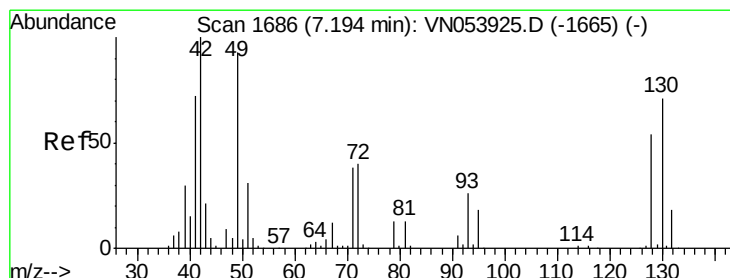
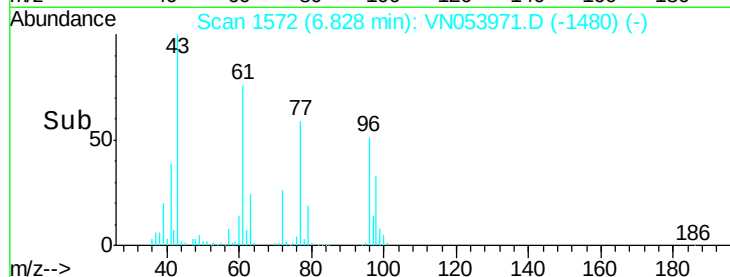
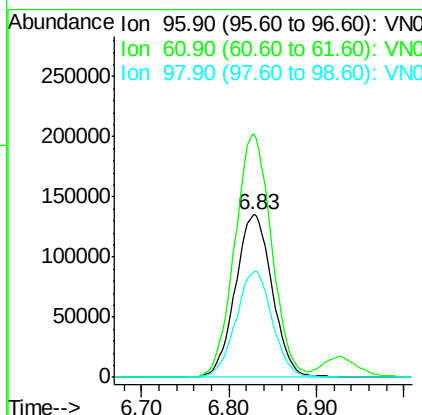
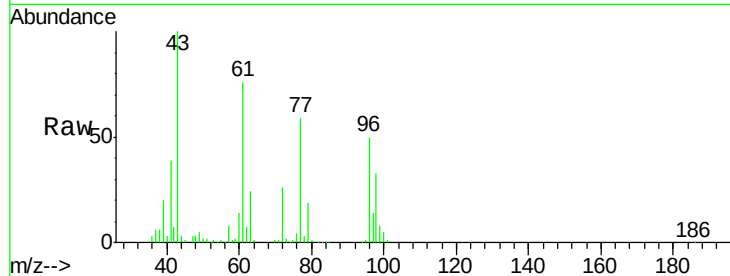
#27
 cis-1,2-Dichloroethene
 Concen: 48.882 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	395328		
61	149.6	0.0	275.6	
98	64.6	0.0	130.0	

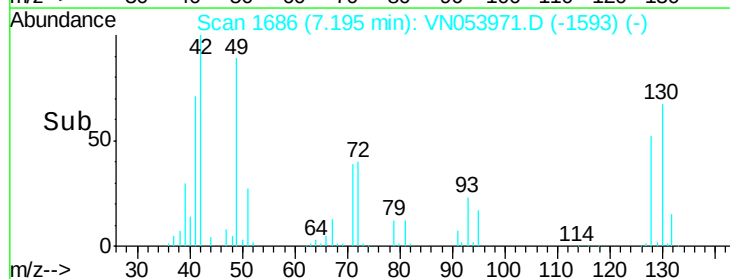
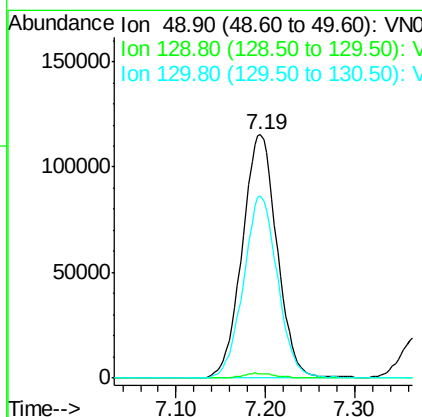
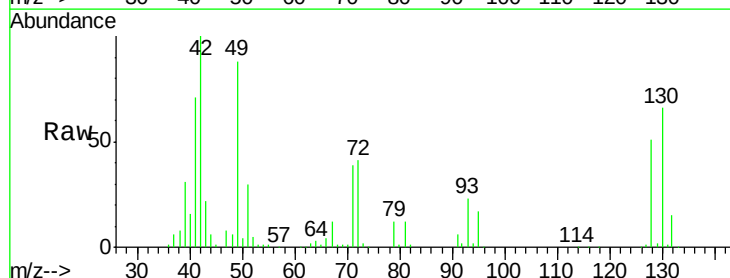
Manual Integrations
 APPROVED

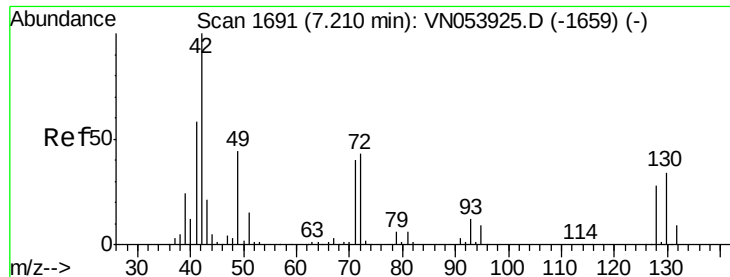
MMDadoda
 2/28/2019 2:55:27 PM



#28
 Bromochloromethane
 Concen: 49.016 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	312793		
129	1.9	0.0	4.6	
130	73.1	72.9	109.3	





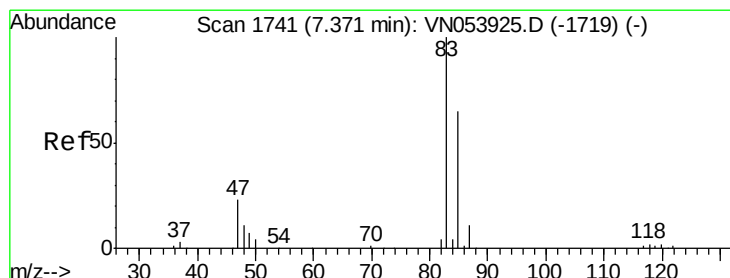
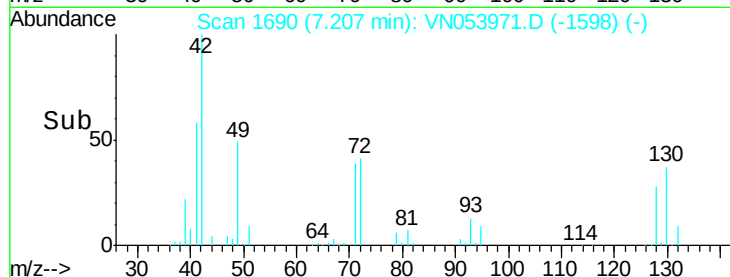
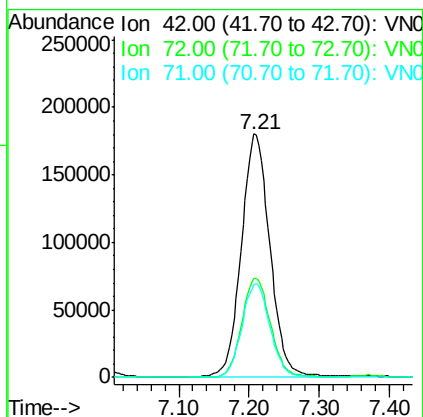
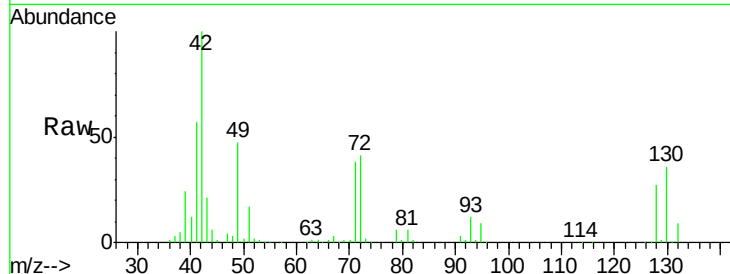
#29
Tetrahydrofuran
Concen: 243.860 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.9	36.9	55.3
71	37.8	34.6	52.0

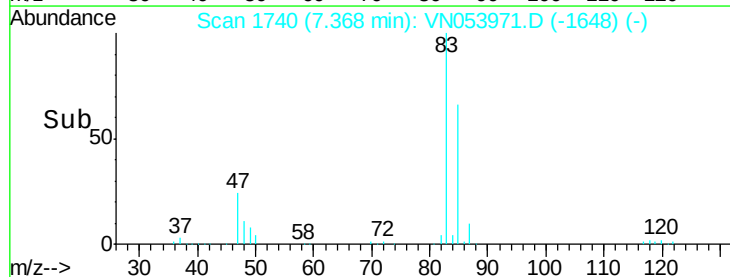
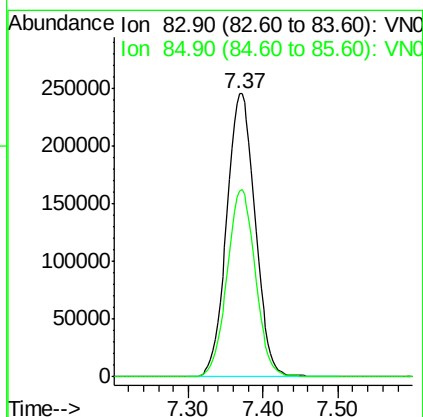
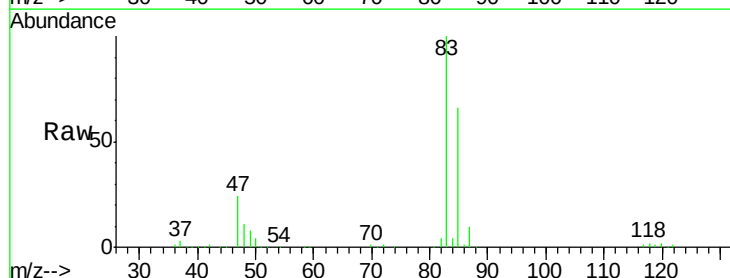
Manual Integrations
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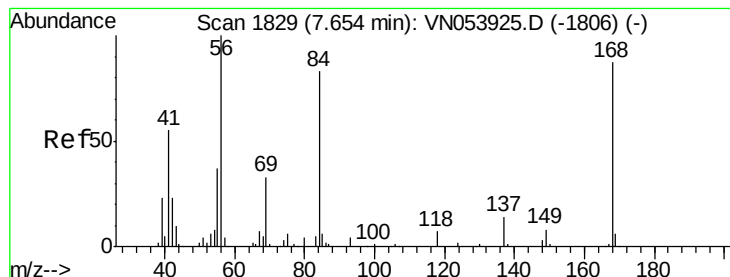
MMDadoda
2/28/2019 2:55:27 PM



#30
Chloroform
Concen: 48.139 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.6	78.8





#31

Cyclohexane

Concen: 51.301 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

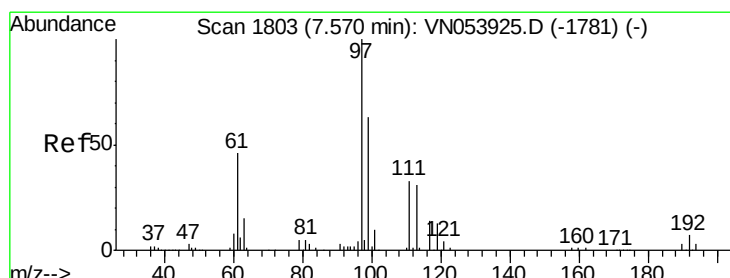
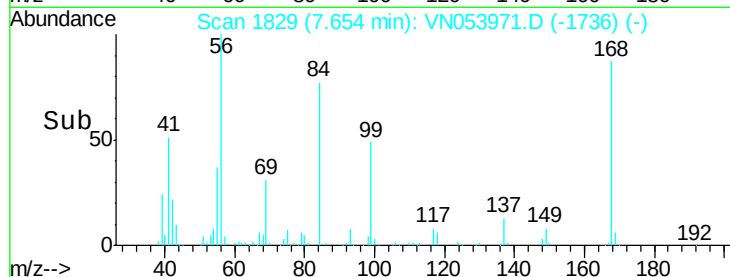
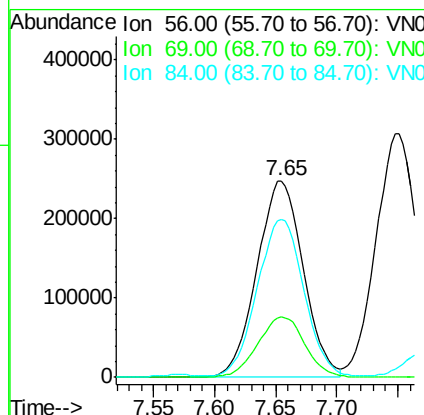
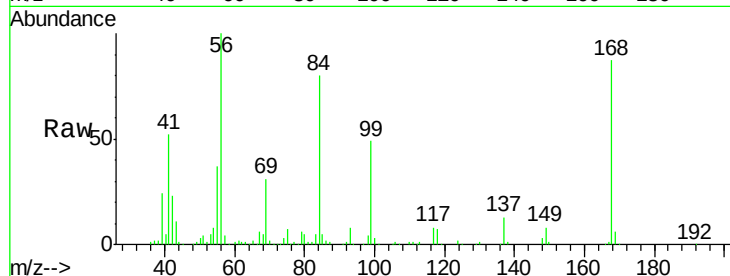
ClientSampleId :

VSTDCCC050

Tot Ion	56	Resp	654395
Ion	Ratio	Lower	Upper
56	100		
69	30.5	26.0	39.0
84	79.3	69.1	103.7

Manual Integrations
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MMDadoda
2/28/2019 2:55:27 PM



#32

1,1,1-Trichloroethane

Concen: 48.834 ug/l

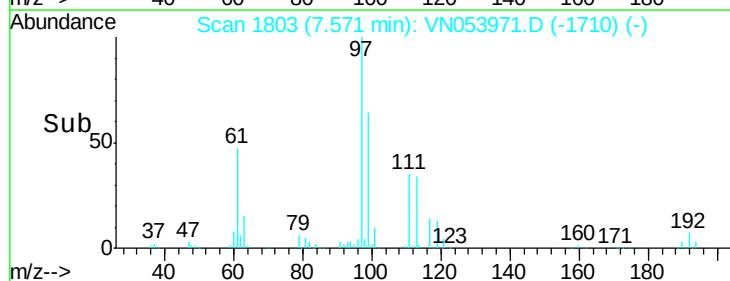
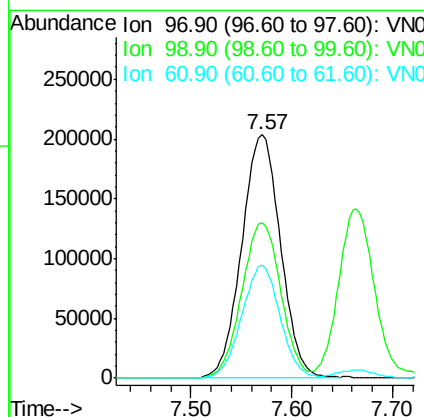
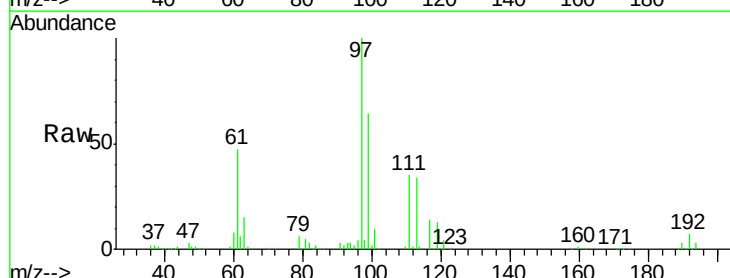
RT: 7.57 min Scan# 1803

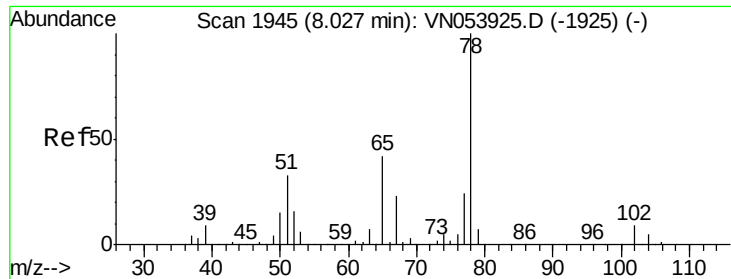
Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Tgt Ion	97	Resp	544320
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.8	77.8
61	45.7	33.2	49.8





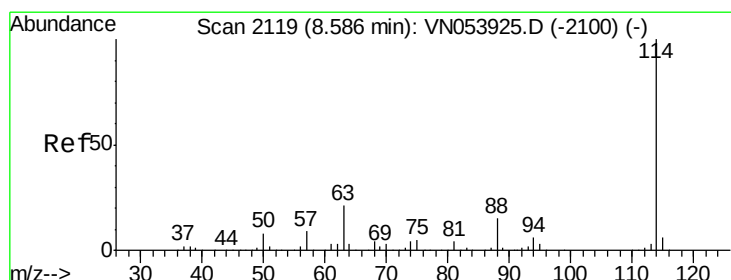
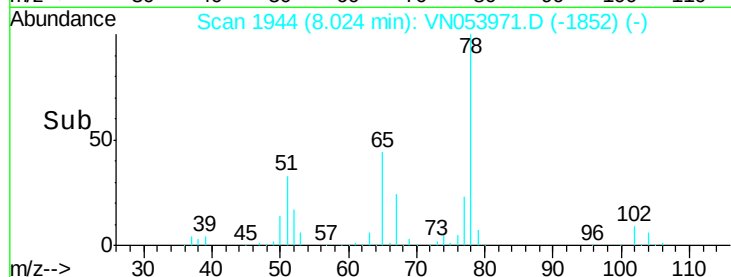
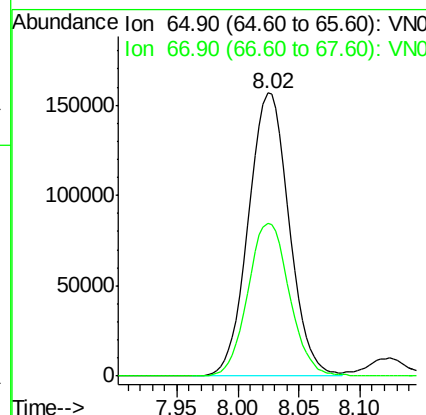
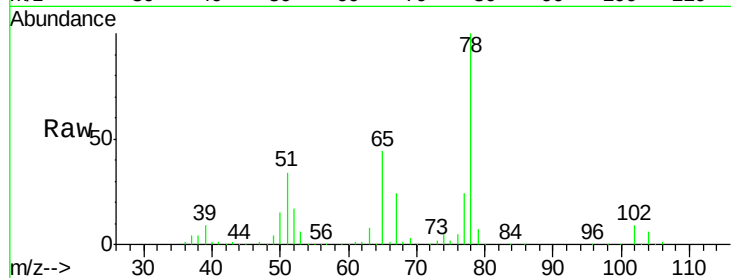
#33
 1,2-Dichloroethane-d4
 Concen: 45.346 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	361794		
67	55.3	0.0	111.8	

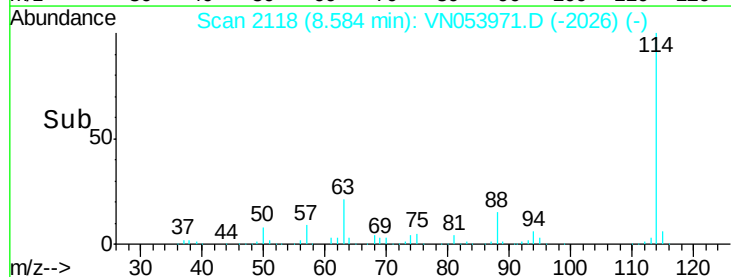
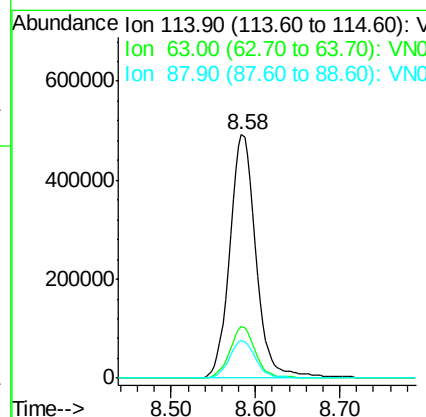
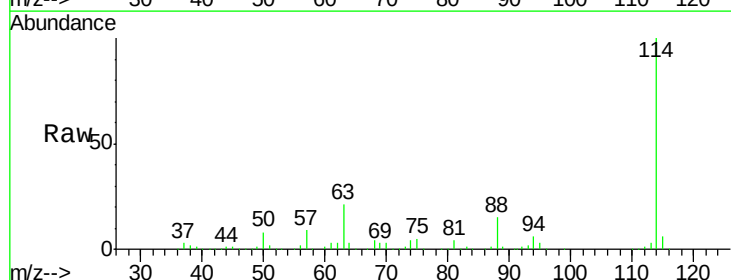
Manual Integrations
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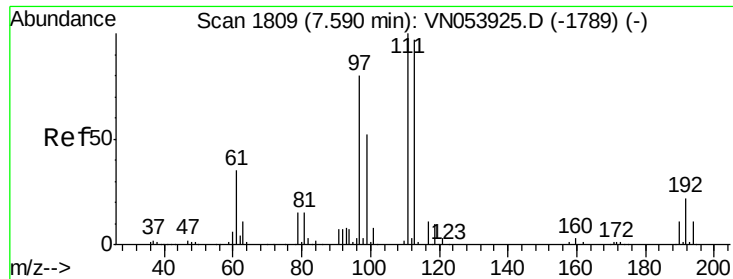
MMDadoda
 2/28/2019 2:55:27 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1061785		
63	21.2	0.0	37.4	
88	15.3	0.0	30.4	





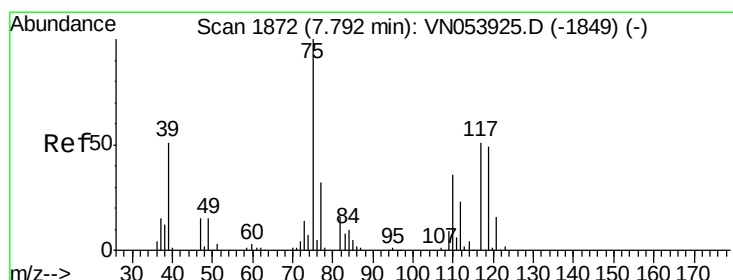
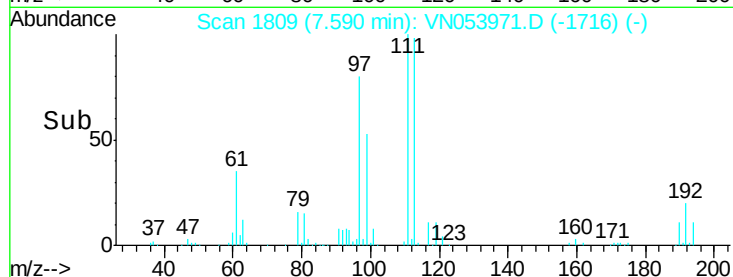
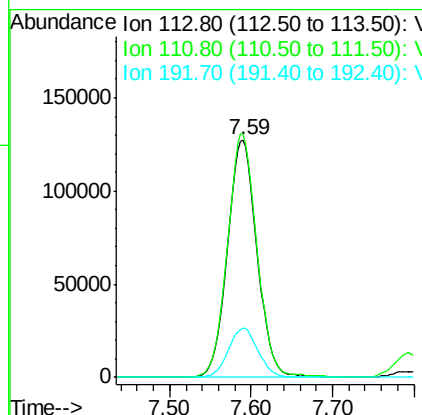
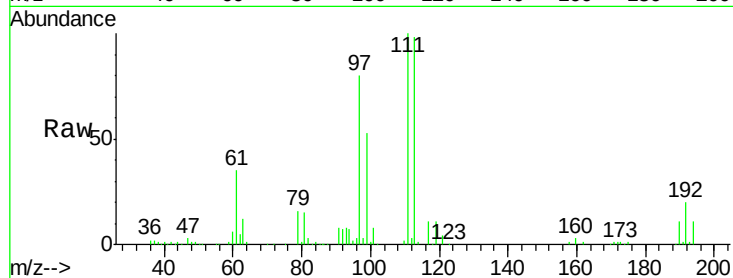
#35
 Dibromofluoromethane
 Concen: 47.085 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.4	81.1	121.7	
192	20.8	18.8	28.2	

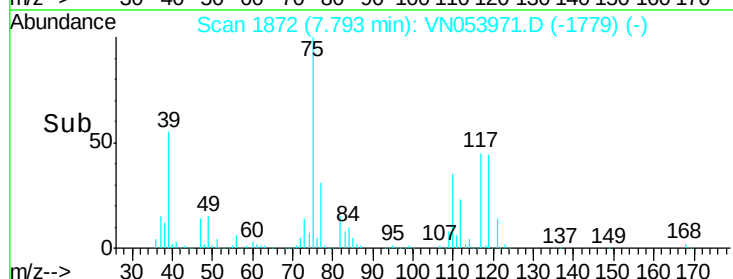
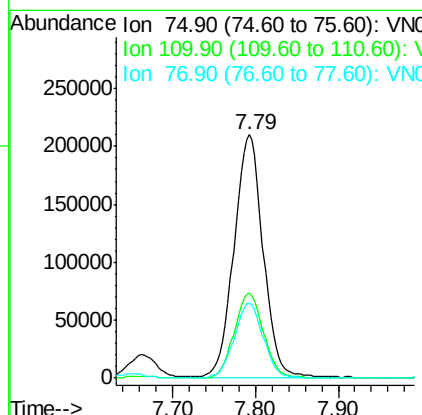
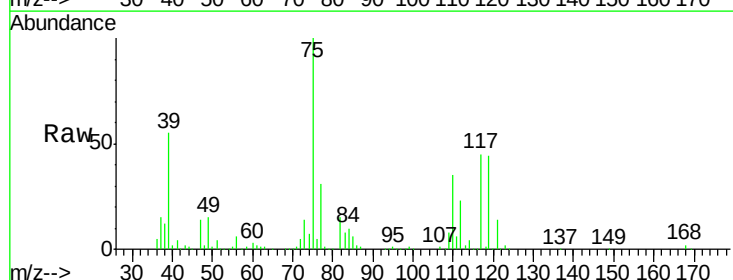
Manual Integrations
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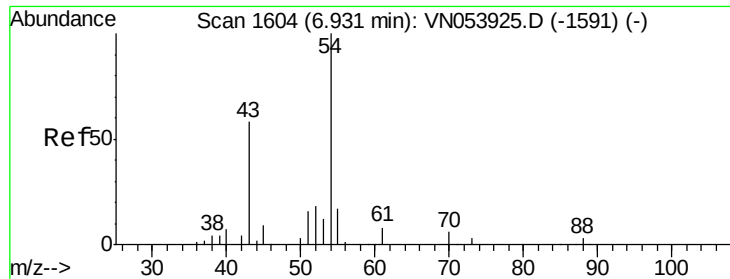
MMDadoda
 2/28/2019 2:55:27 PM



#36
 1,1-Dichloropropene
 Concen: 51.867 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.2	19.0	57.0	
77	31.5	25.4	38.0	





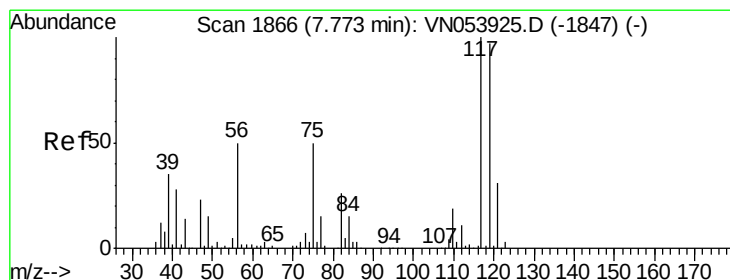
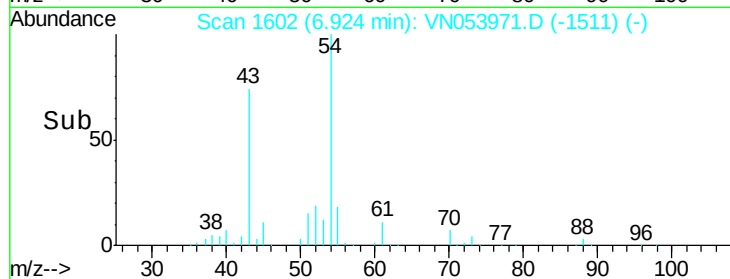
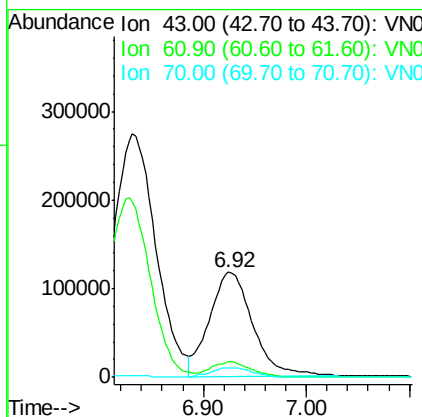
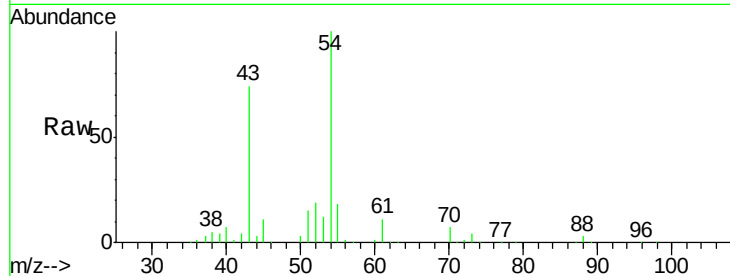
#37
Ethyl Acetate
Concen: 48.186 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.01 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	12.0	18.0
70	9.4	8.7	13.1

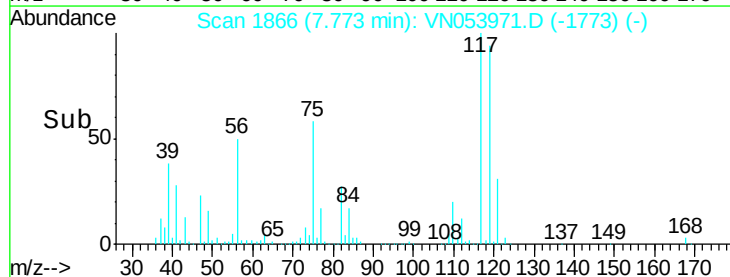
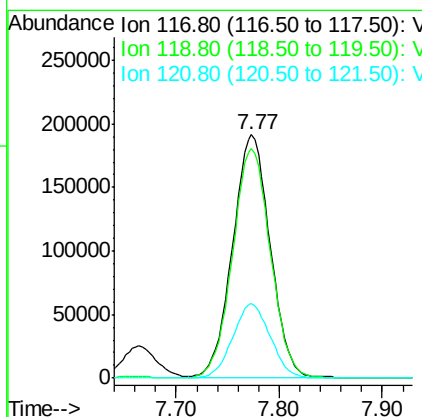
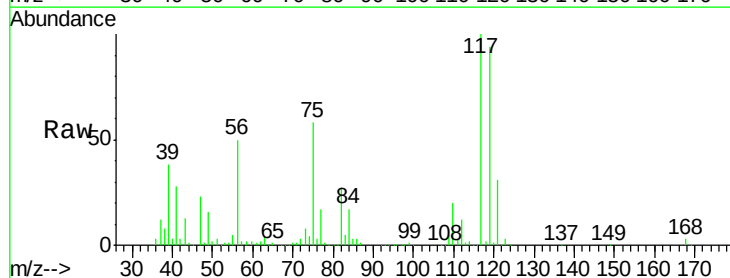
Manual Integrations
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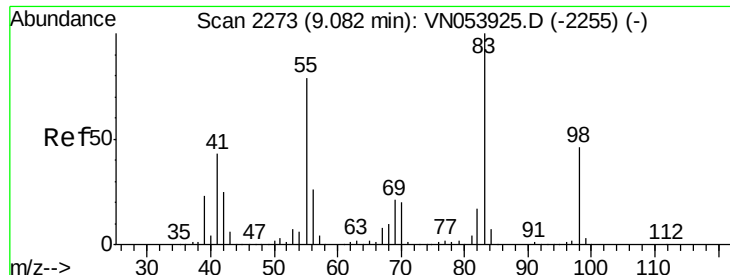
MMDadoda
2/28/2019 2:55:27 PM



#38
Carbon Tetrachloride
Concen: 46.922 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.2	114.2
121	30.6	24.6	36.8





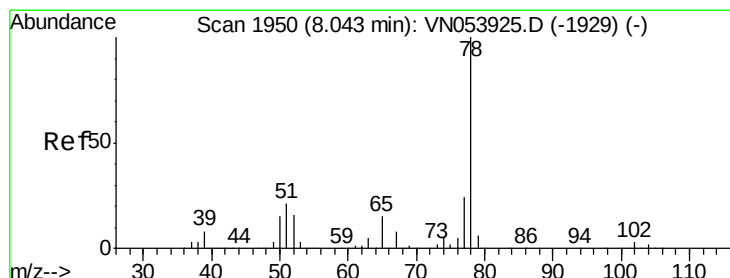
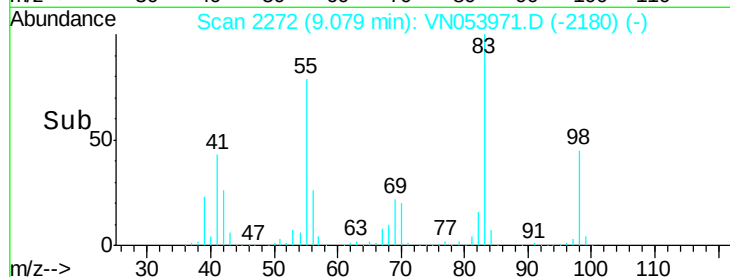
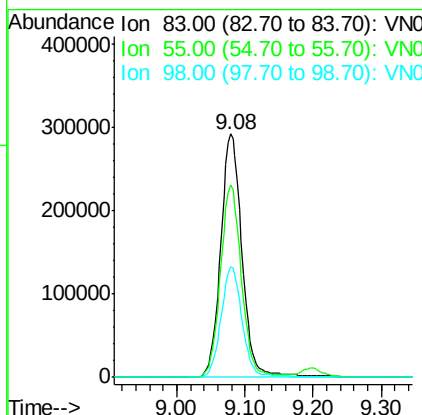
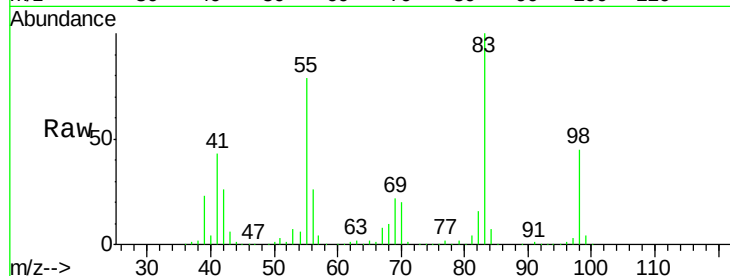
#39
Methylvlcyclohexane
Concen: 53.515 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.9	58.2	87.4
98	45.2	37.2	55.8

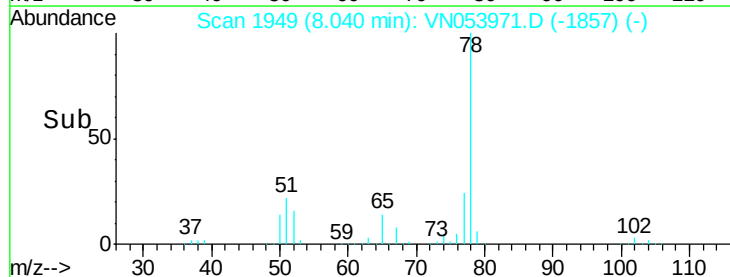
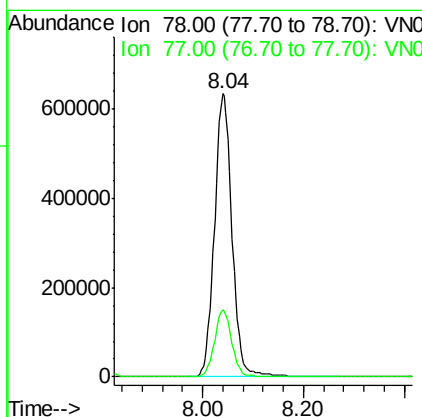
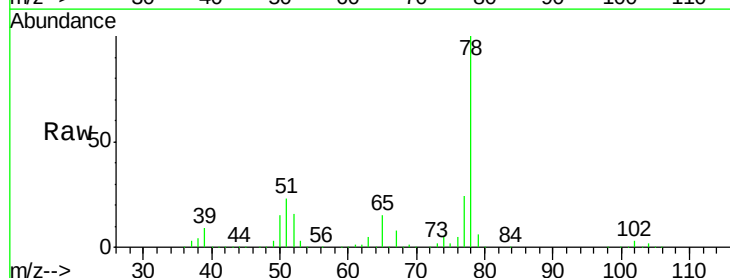
Manual Integrations
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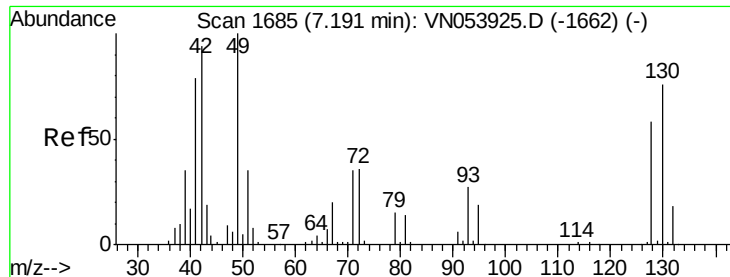
MMDadoda
2/28/2019 2:55:27 PM



#40
Benzene
Concen: 50.592 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2





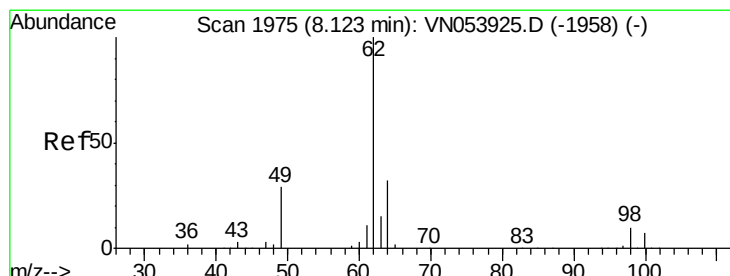
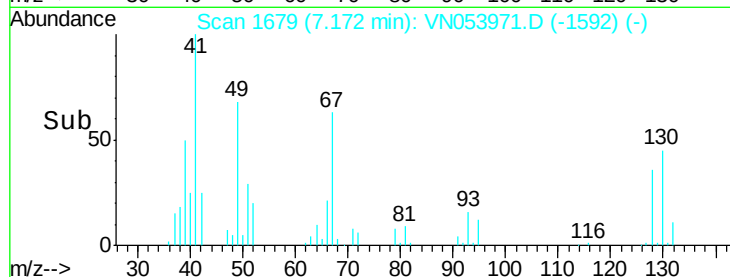
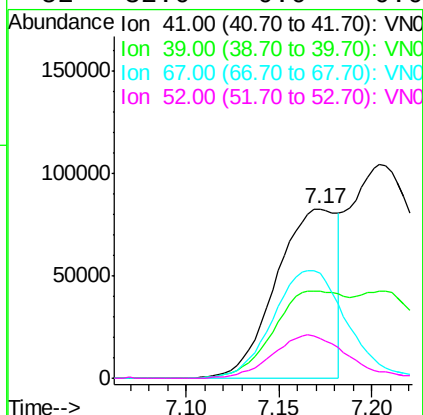
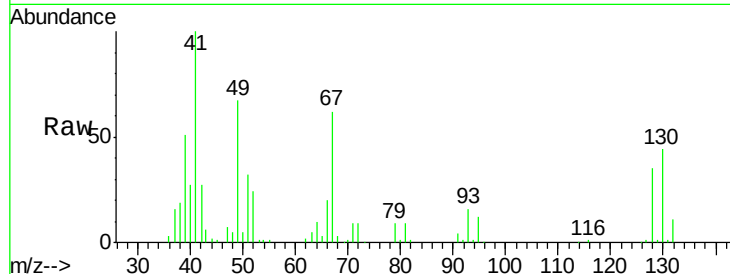
#41
Methacrylonitrile
Concen: 41.320 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.1	0.0	0.0	#
67	78.3	0.0	0.0	#
52	32.0	0.0	0.0	#

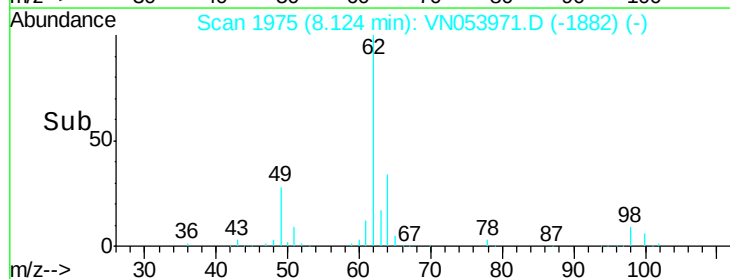
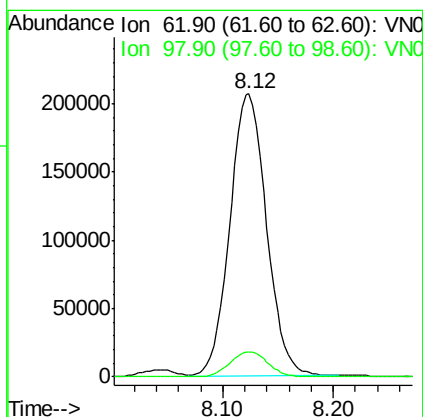
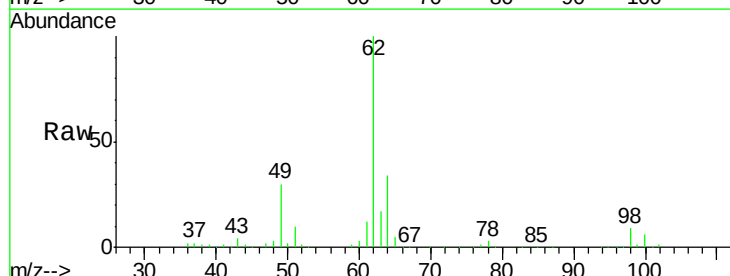
Manual Integrations
APPROVED

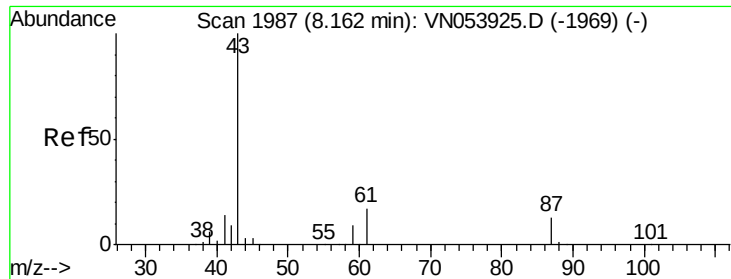
MMDadoda
2/28/2019 2:55:27 PM



#42
1,2-Dichloroethane
Concen: 50.467 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.3	0.0	20.8	





#43

Isopropyl Acetate

Concen: 49.412 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

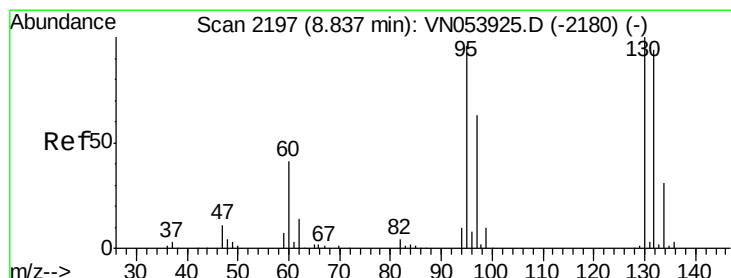
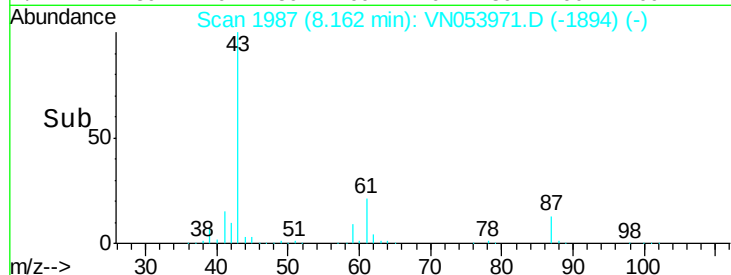
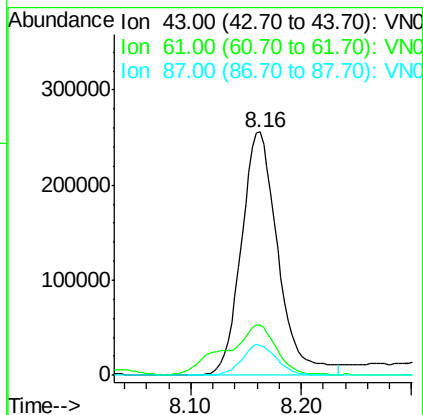
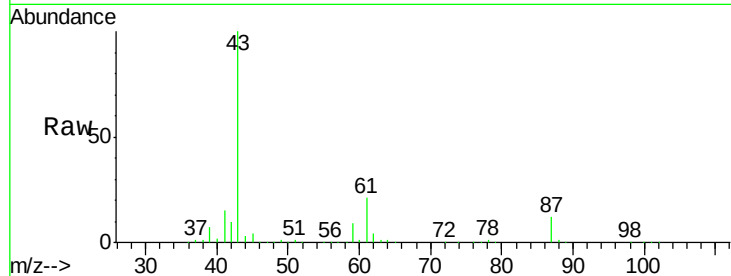
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	588221
Ion	Ratio	Lower	Upper
43	100		
61	28.1	17.4	26.0#
87	12.0	11.5	17.3

Manual Integrations
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2/28/2019 2:55:27 PM



#44

Trichloroethene

Concen: 49.646 ug/l

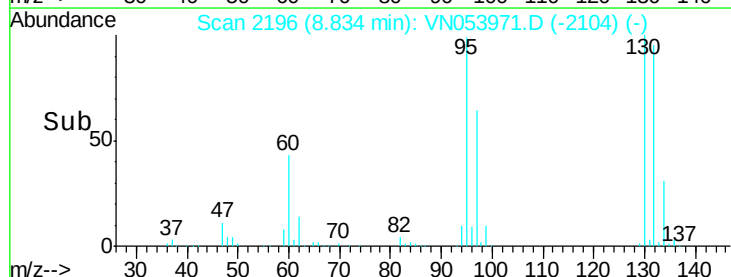
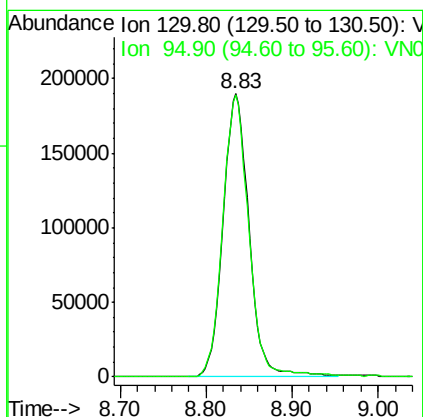
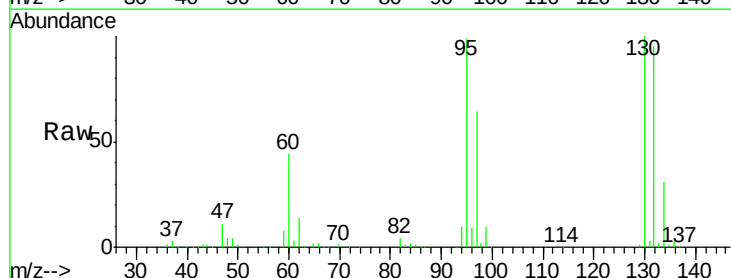
RT: 8.83 min Scan# 2196

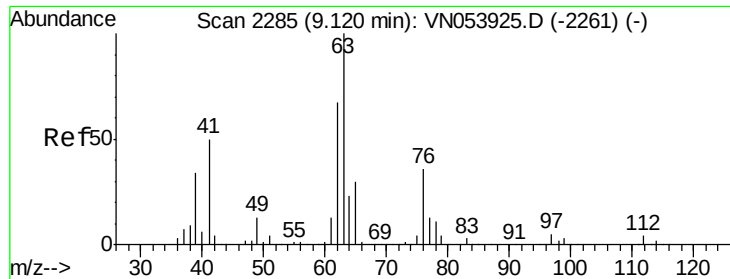
Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Tgt Ion:	130	Resp:	399250
Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	190.0





#45

1,2-Dichloropropane

Concen: 50.859 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 416225

Ion Ratio Lower Upper

63 100

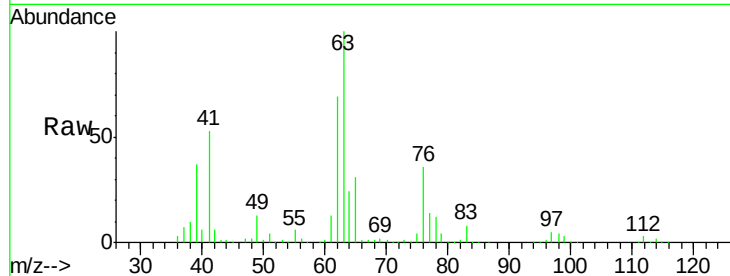
65 30.7 24.3 36.5

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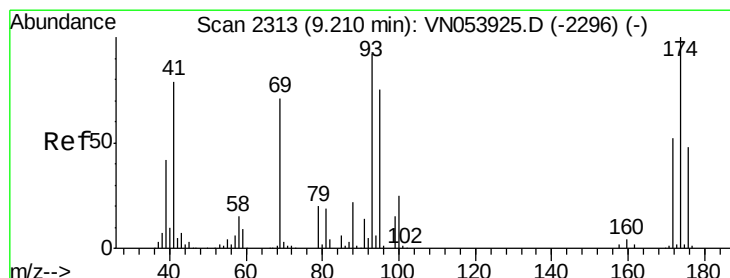
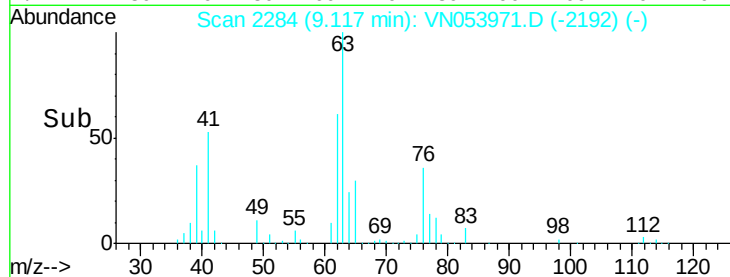
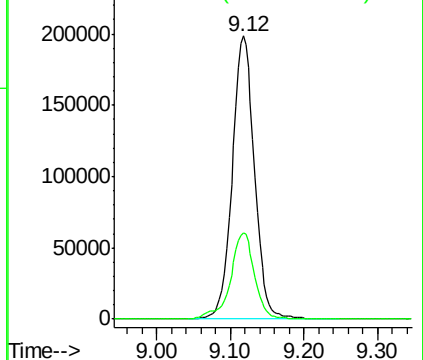
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 49.590 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

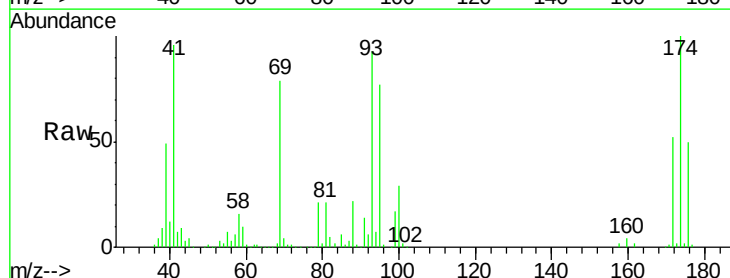
Tgt Ion: 93 Resp: 235616

Ion Ratio Lower Upper

93 100

95 83.4 66.6 100.0

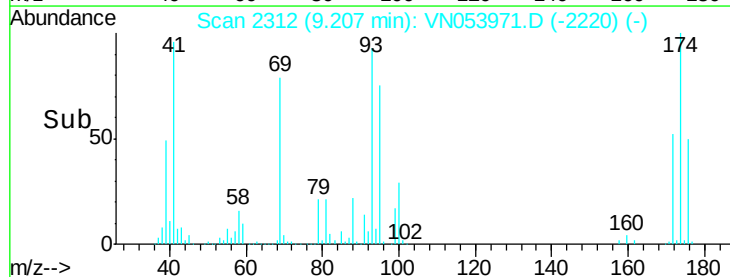
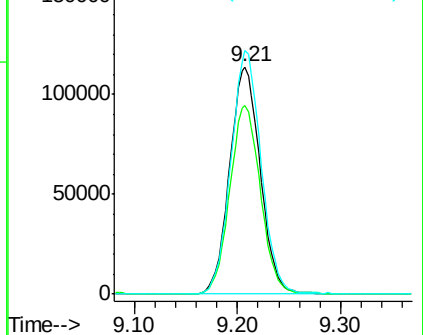
174 105.6 96.2 144.4

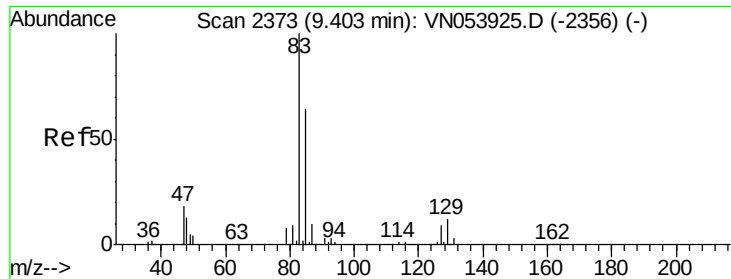


Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





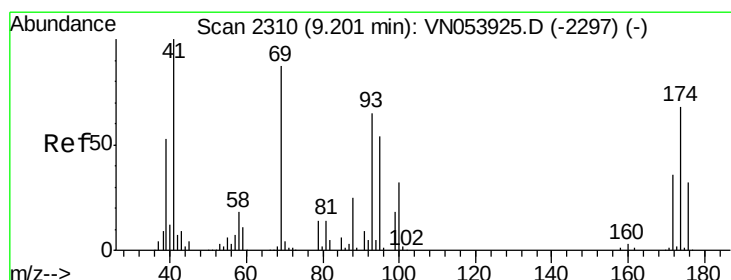
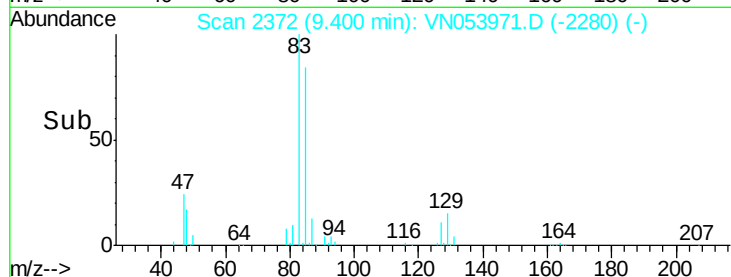
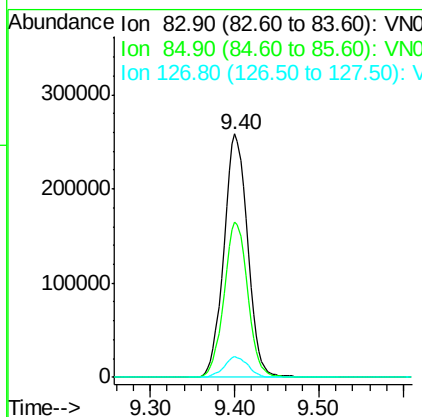
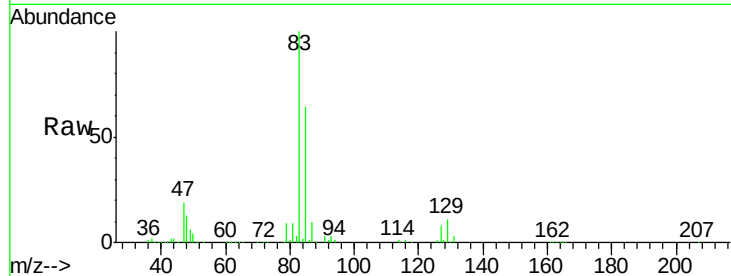
#47
Bromodichloromethane
Concen: 50.527 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	505925
Ion Ratio	100	Lower	Upper
83	100		
85	63.9	51.8	77.6
127	8.4	7.4	11.0

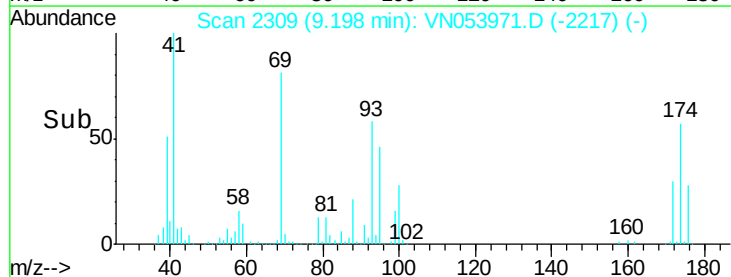
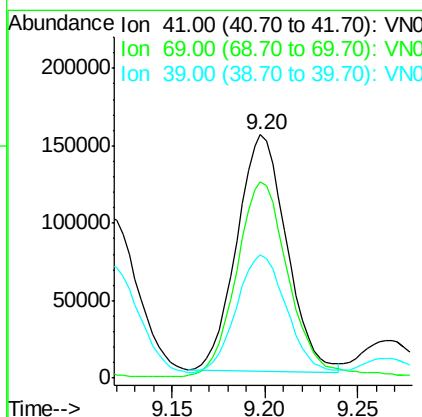
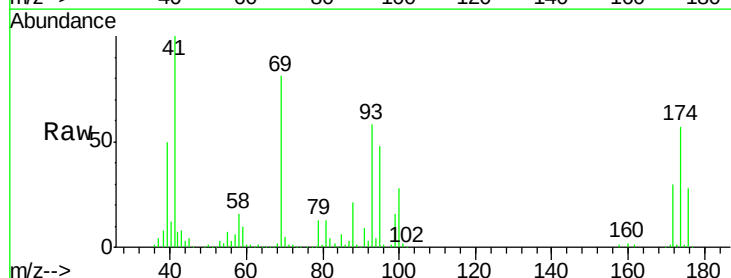
Manual Integrations
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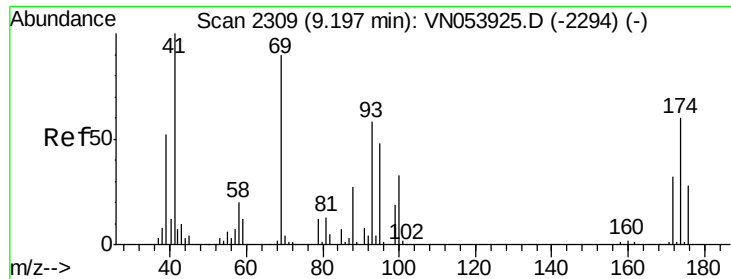
MMDadoda
2/28/2019 2:55:27 PM



#48
Methyl methacrylate
Concen: 51.923 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion	41	Resp	284311
Ion Ratio	100	Lower	Upper
41	100		
69	87.5	74.8	112.2
39	55.1	39.0	58.6





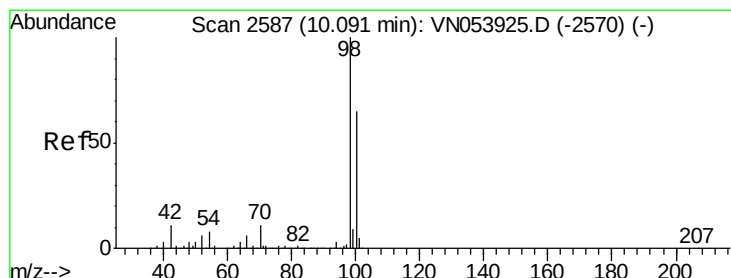
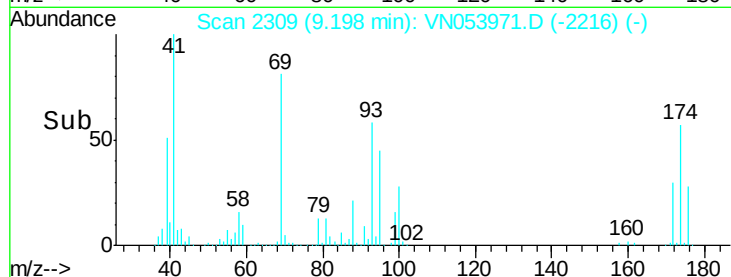
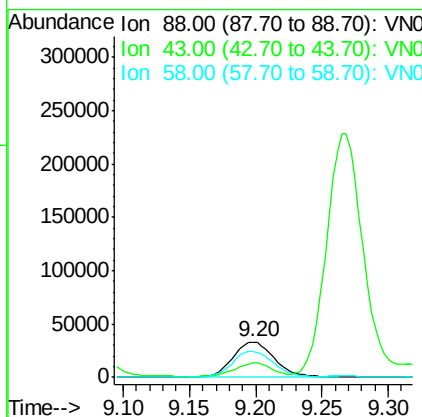
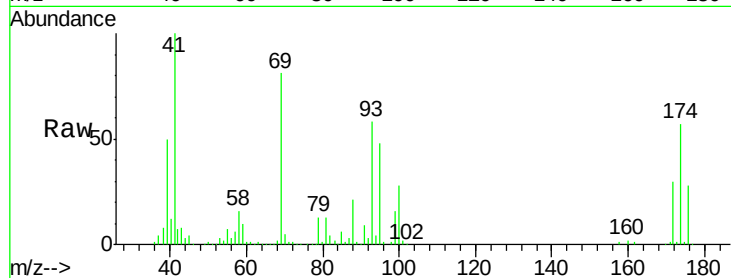
#49
1,4-Dioxane
Concen: 984.187 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 88 Resp: 72991
Ion Ratio Lower Upper
88 100
43 34.0 21.2 31.8#
58 73.8 54.2 81.2

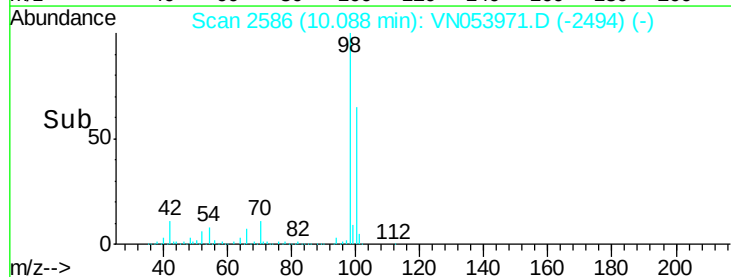
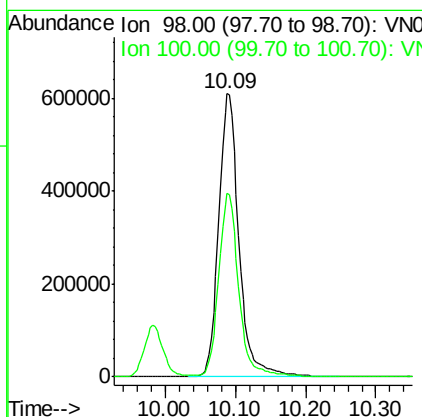
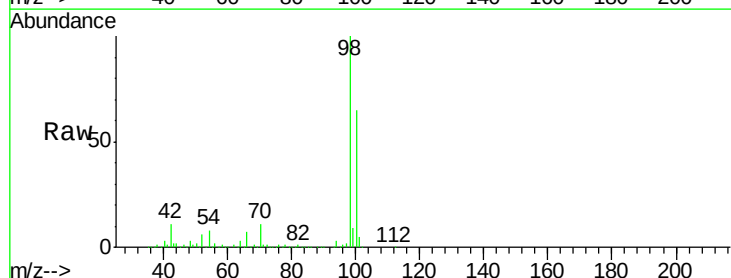
Manual Integrations
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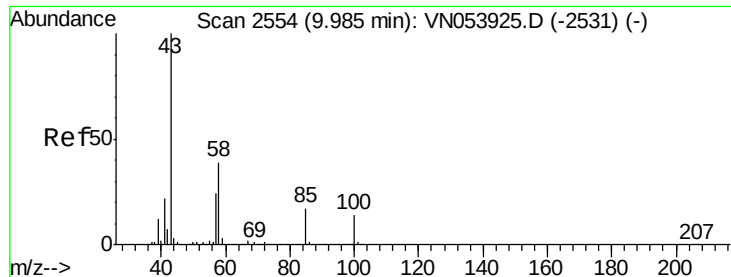
MMDadoda
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#50
Toluene-d8
Concen: 47.708 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion: 98 Resp: 1219394
Ion Ratio Lower Upper
98 100
100 64.5 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 264.524 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1618161

Ion Ratio Lower Upper

43 100

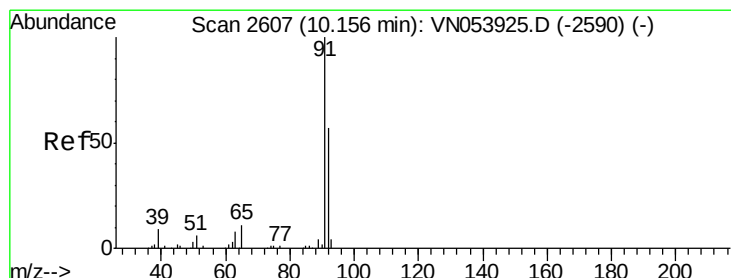
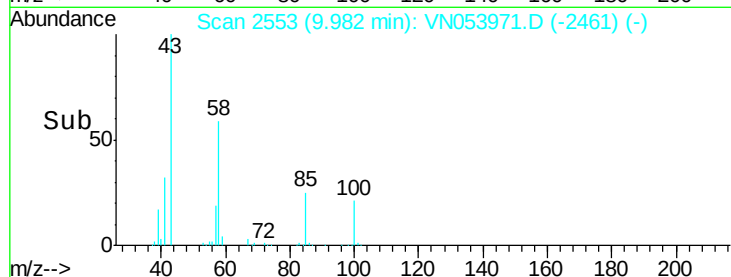
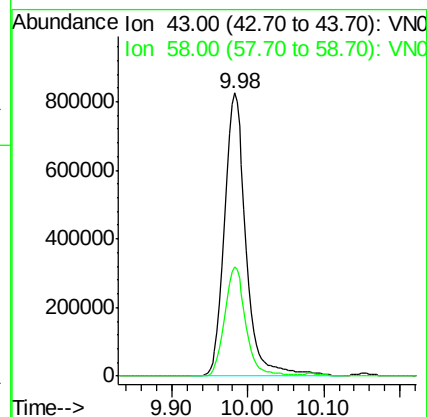
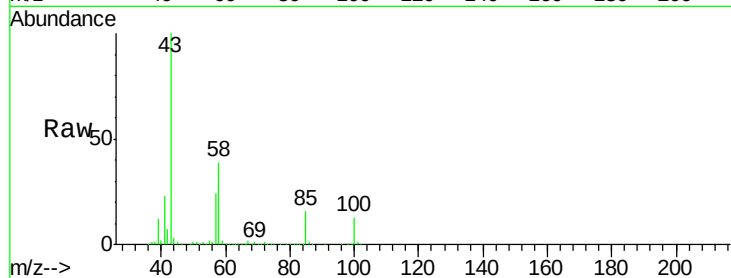
58 38.1 32.7 49.1

Manual Integrations

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#52

Toluene

Concen: 51.567 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053971.D

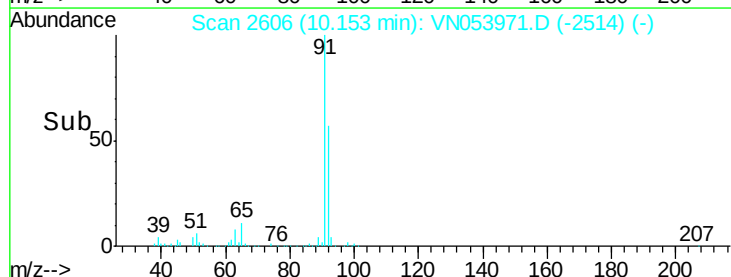
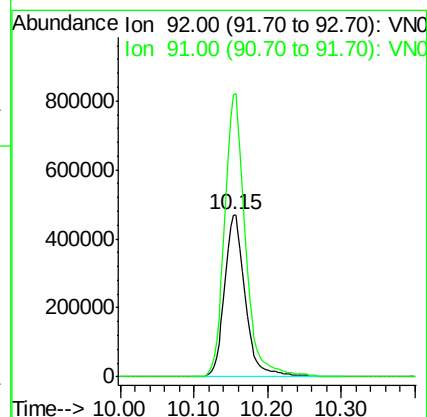
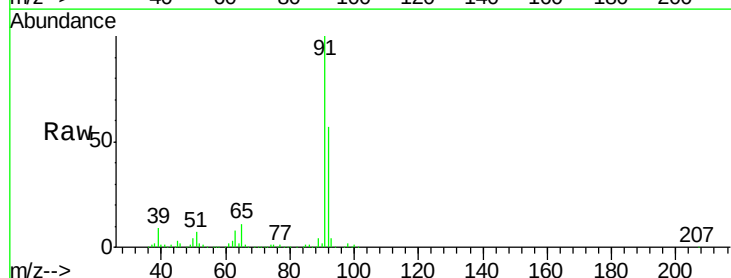
Acq: 27 Feb 2019 16:12

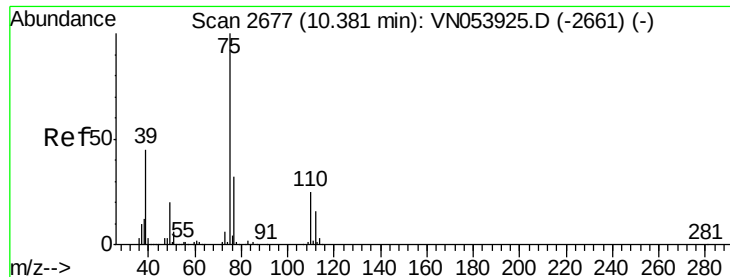
Tgt Ion: 92 Resp: 921069

Ion Ratio Lower Upper

92 100

91 174.8 138.4 207.6





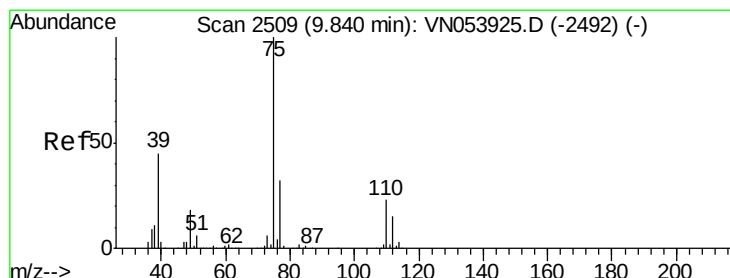
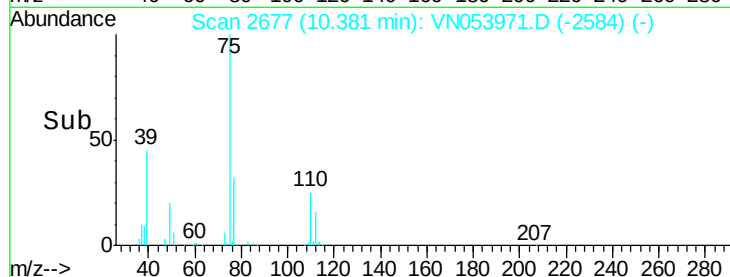
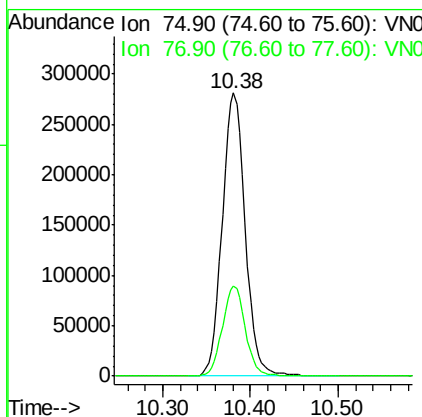
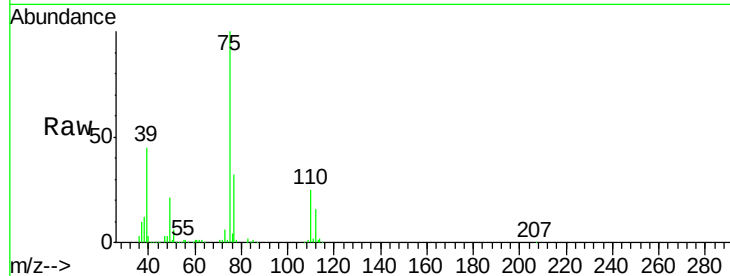
#53
t-1,3-Dichloropropene
Concen: 52.559 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.6

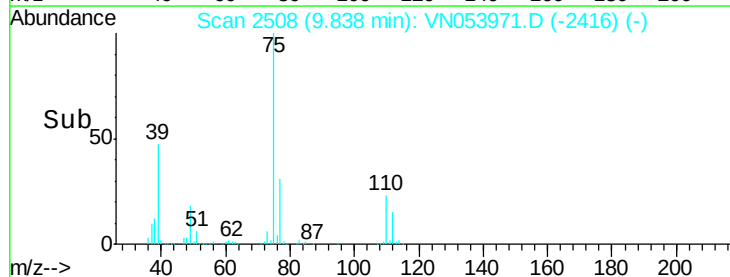
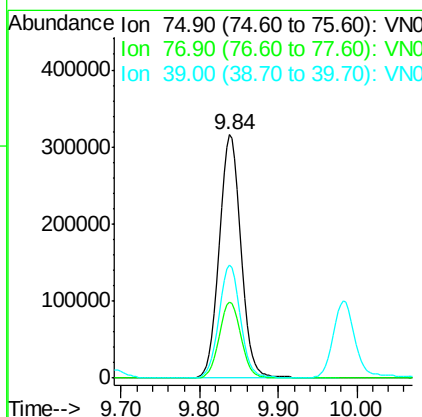
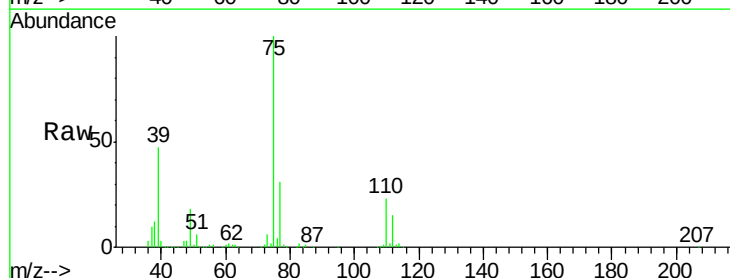
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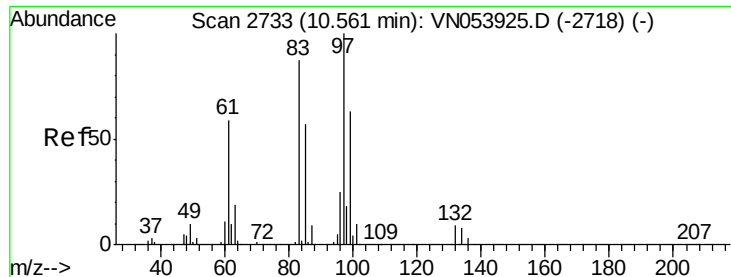
MMDadoda
2/28/2019 2:55:27 PM



#54
cis-1,3-Dichloropropene
Concen: 52.307 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.8	38.6
39	46.6	31.4	47.0





#55

1,1,2-Trichloroethane

Concen: 49.137 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

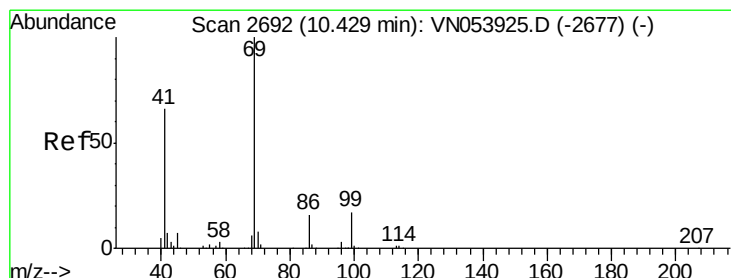
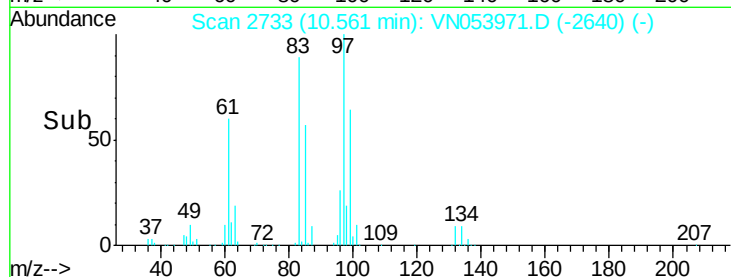
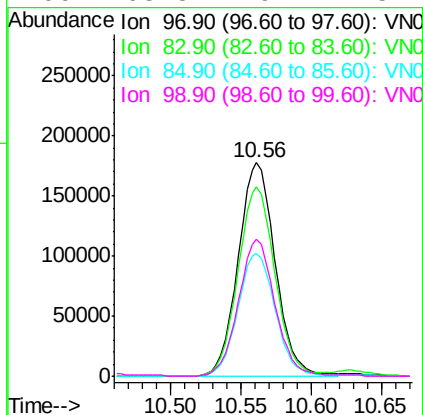
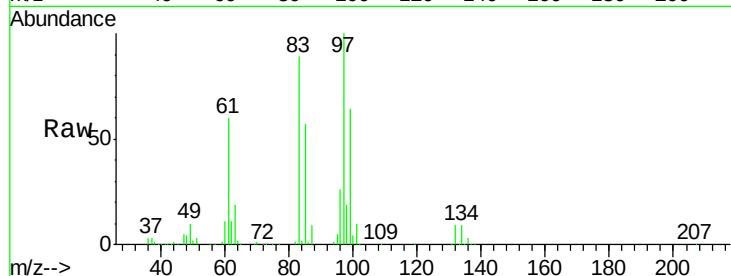
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	327773
Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.5	104.3
85	57.5	45.9	68.9
99	63.8	49.1	73.7

Manual Integrations
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#56

Ethyl methacrylate

Concen: 47.928 ug/l

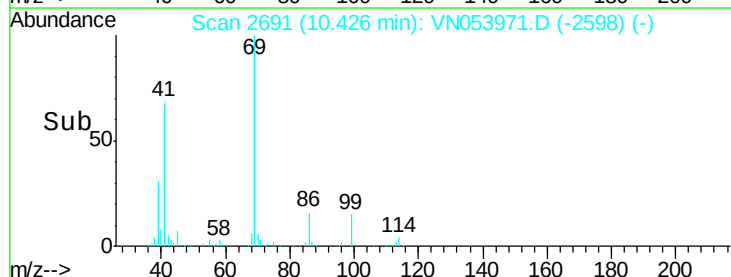
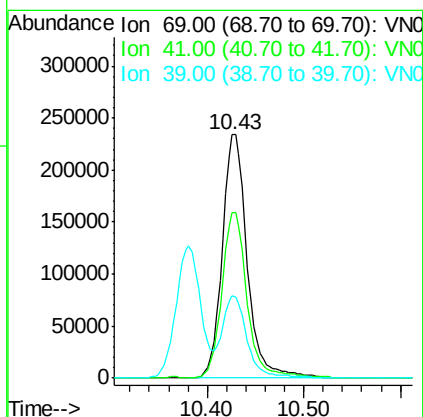
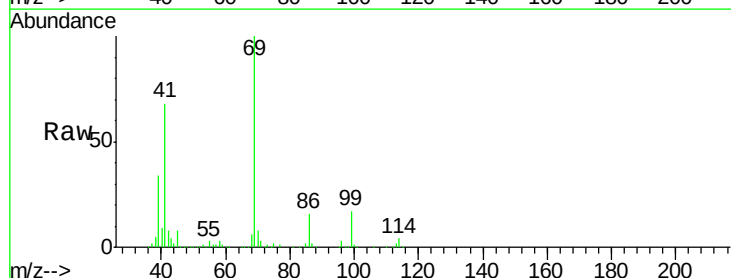
RT: 10.43 min Scan# 2691

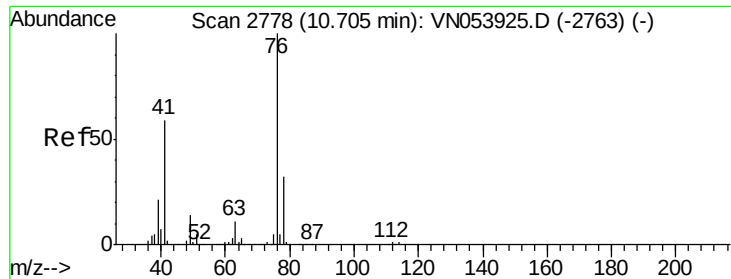
Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Tgt Ion:	69	Resp:	418468
Ion	Ratio	Lower	Upper
69	100		
41	68.2	47.5	71.3
39	33.4	23.4	35.0





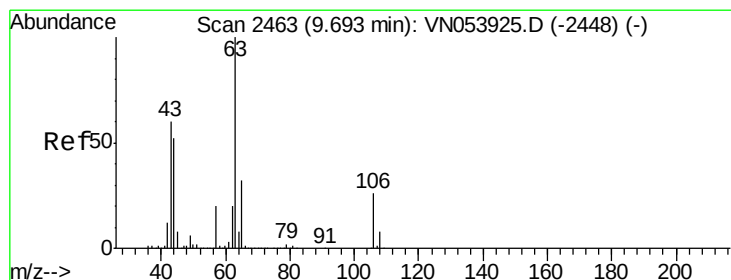
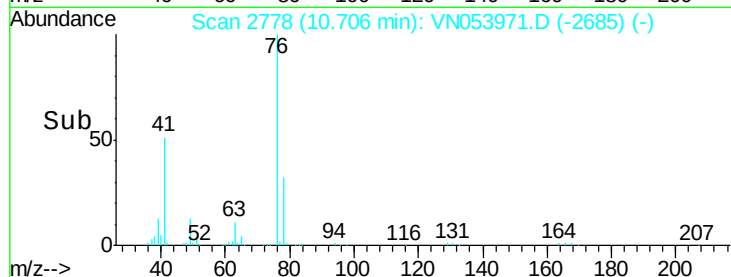
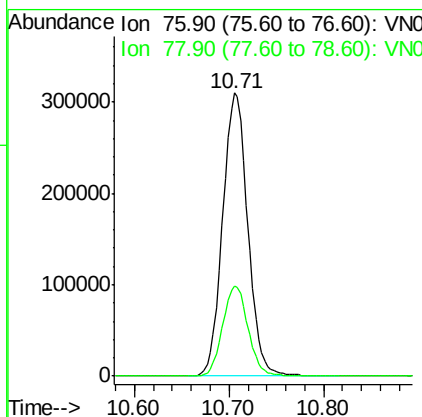
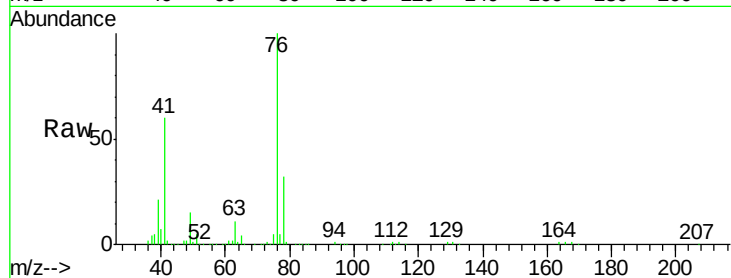
#57
 1,3-Dichloropropane
 Concen: 50.837 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.2	37.8

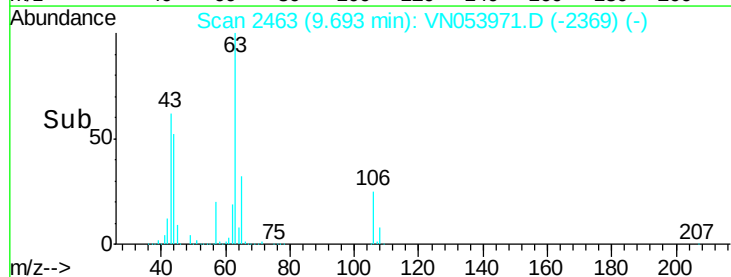
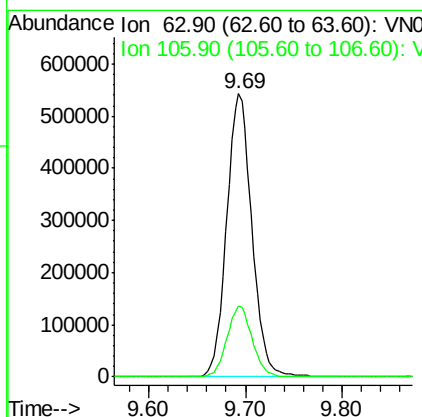
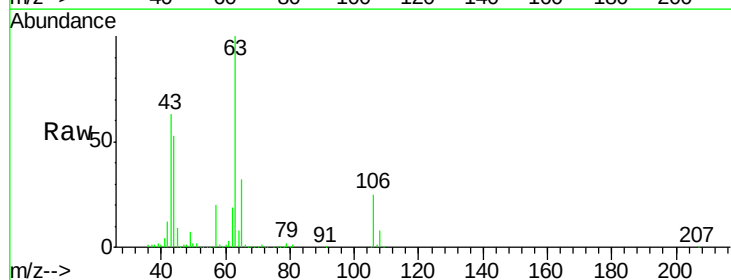
Manual Integrations
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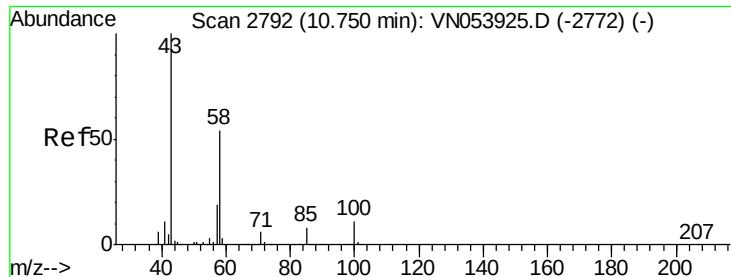
MMDadoda
 2/28/2019 2:55:27 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 242.029 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.9	22.2	33.2





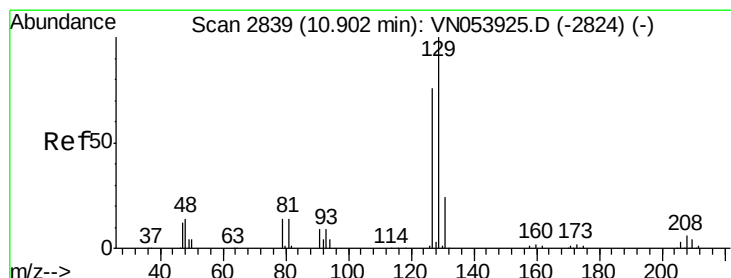
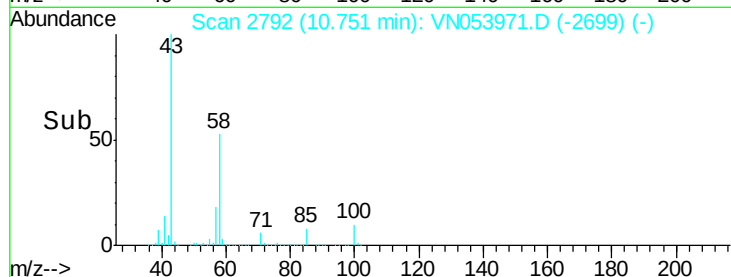
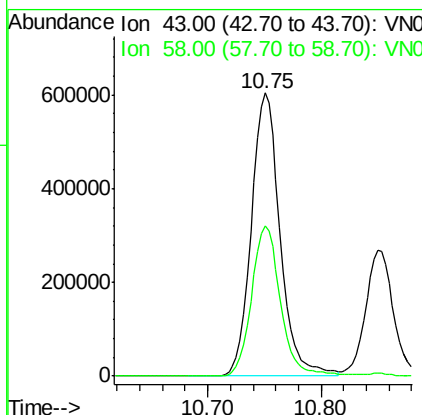
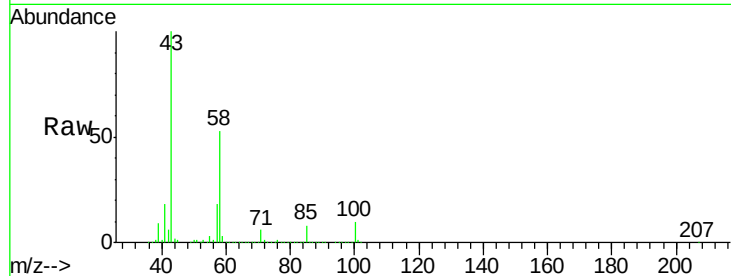
#59
2-Hexanone
Concen: 267.382 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1063792
Ion Ratio Lower Upper
43 100
58 53.6 29.1 87.4

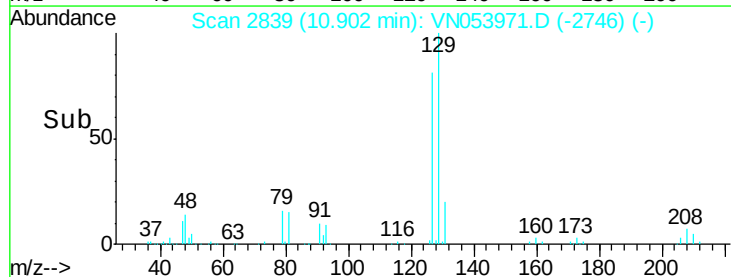
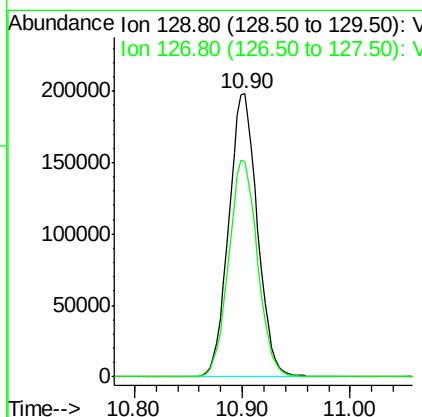
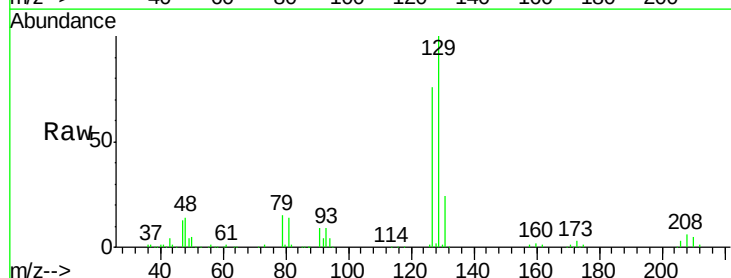
Manual Integrations
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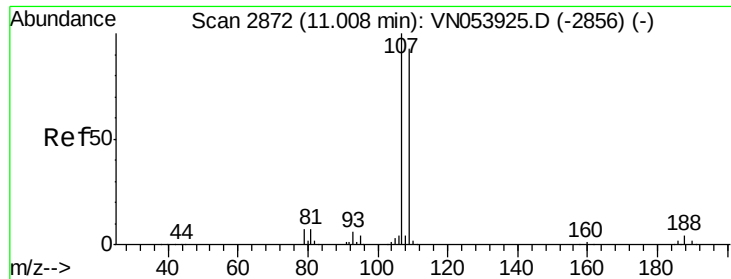
MMDadoda
2/28/2019 2:55:27 PM



#60
Dibromochloromethane
Concen: 49.534 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion: 129 Resp: 367220
Ion Ratio Lower Upper
129 100
127 77.0 38.8 116.3





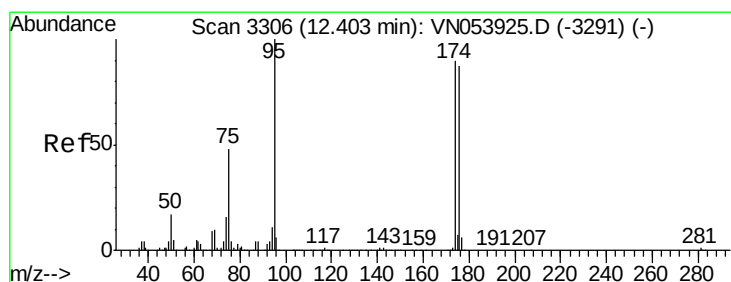
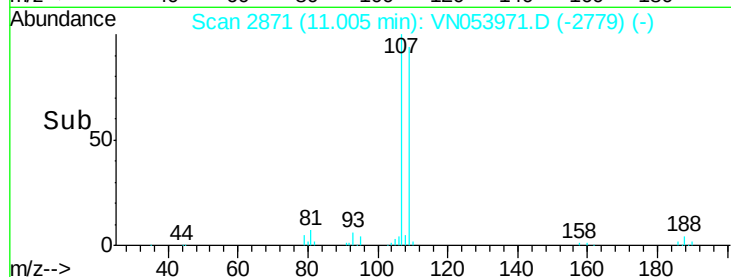
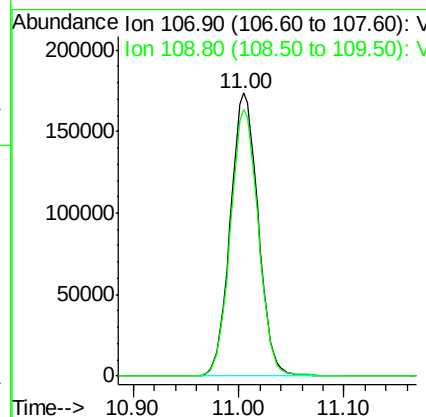
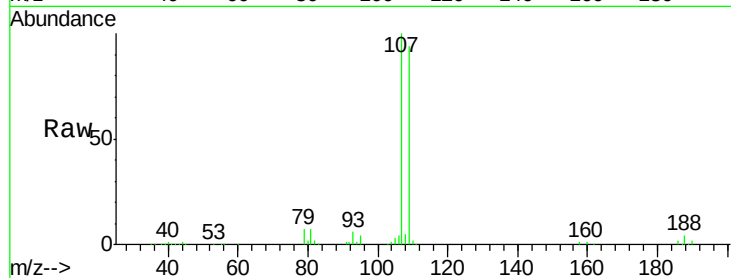
#61
 1,2-Dibromoethane
 Concen: 49.189 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
107	100	316525		
109	94.1	76.3	114.5	

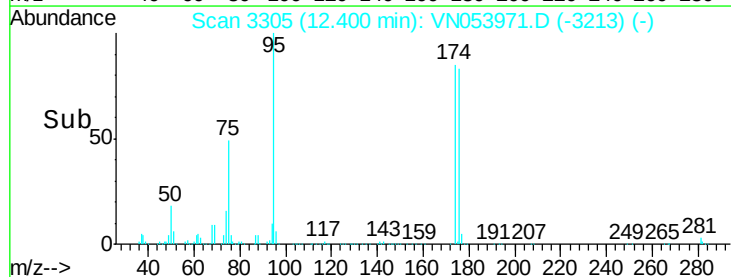
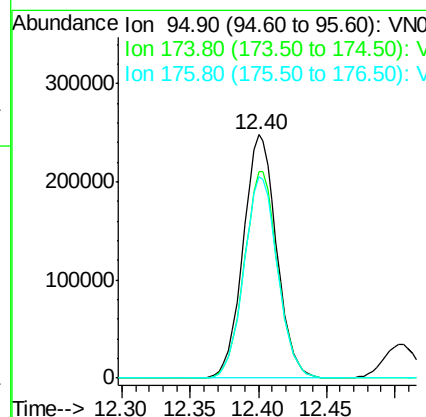
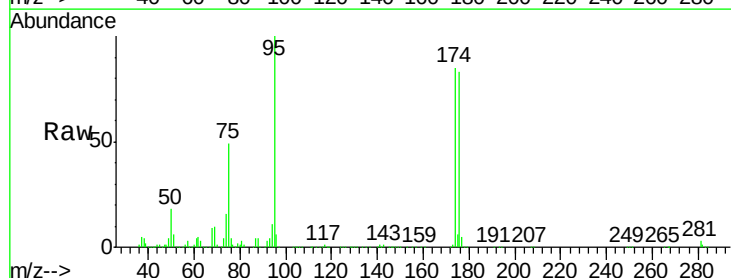
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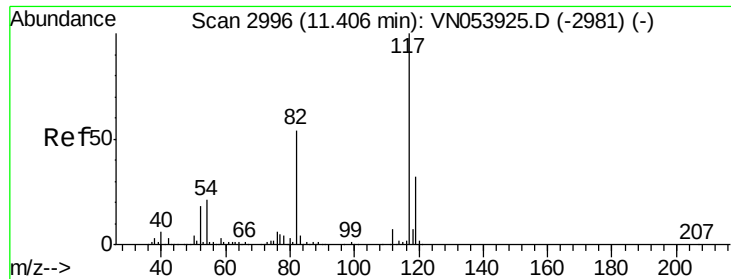
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#62
 4-Bromofluorobenzene
 Concen: 49.297 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	419794		
174	85.1	0.0	188.8	
176	83.4	0.0	182.6	





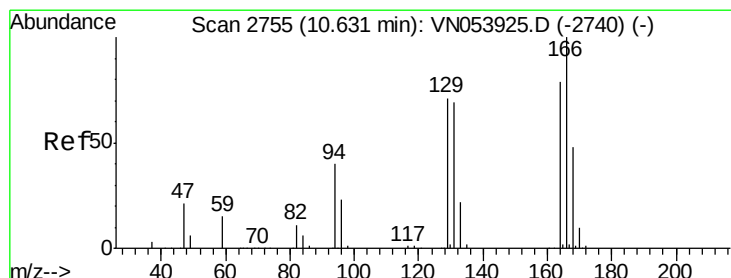
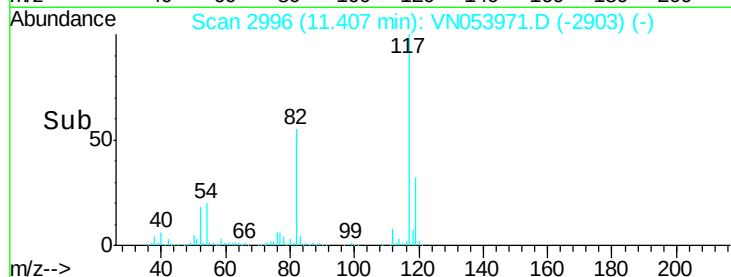
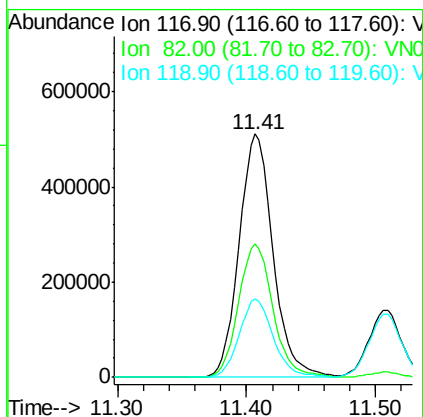
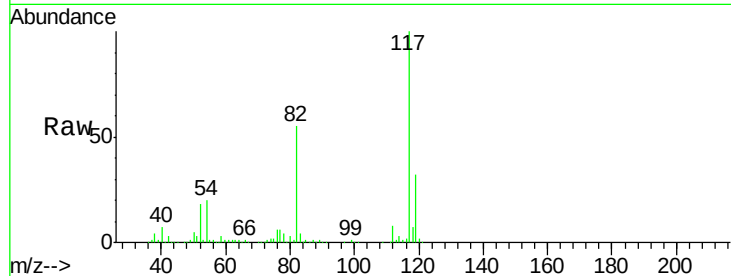
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	938318		
82	54.6		41.4	62.2
119	32.3		25.3	37.9

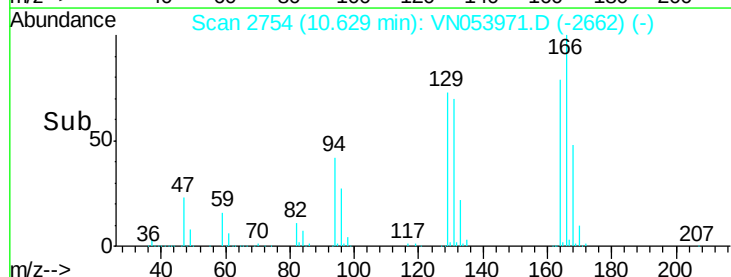
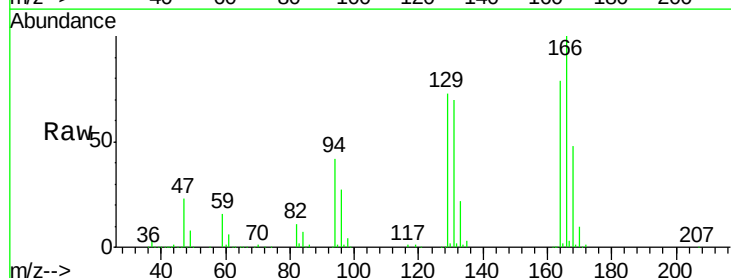
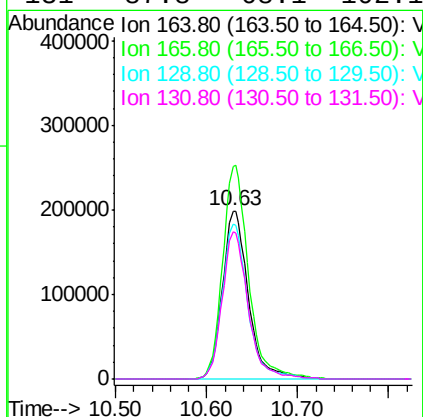
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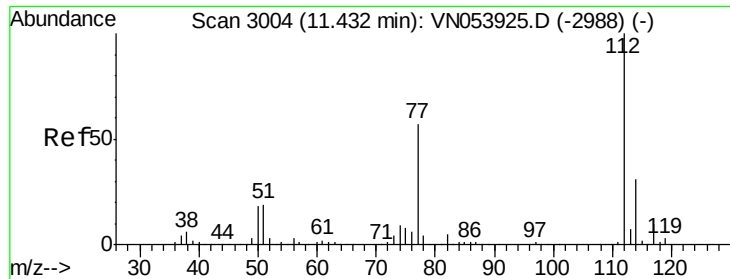
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#64
Tetrachloroethene
Concen: 49.421 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	392675		
166	126.1		102.6	153.8
129	92.3		69.4	104.0
131	87.8		68.1	102.1





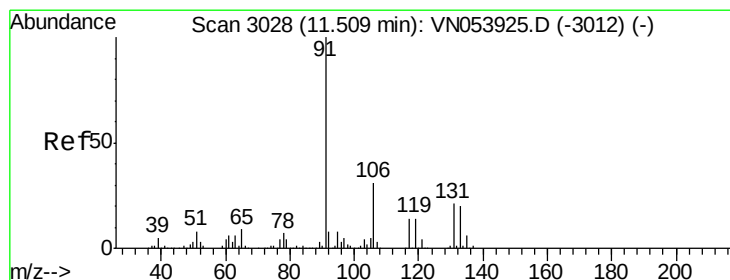
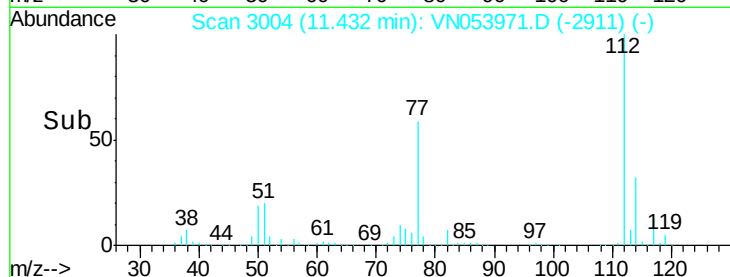
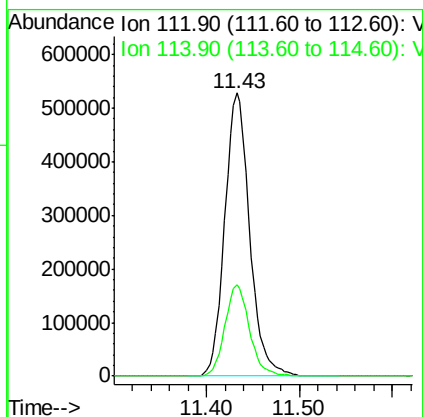
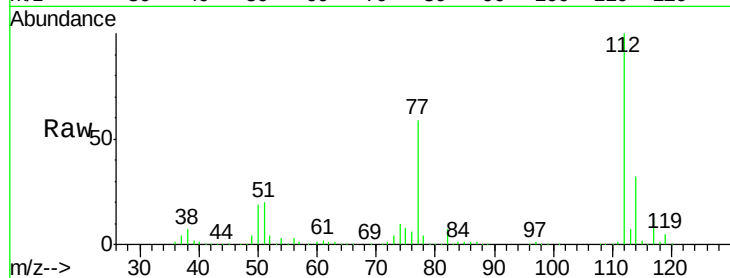
#65
Chlorobenzene
Concen: 49.601 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 982241
Ion Ratio Lower Upper
112 100
114 32.2 25.7 38.5

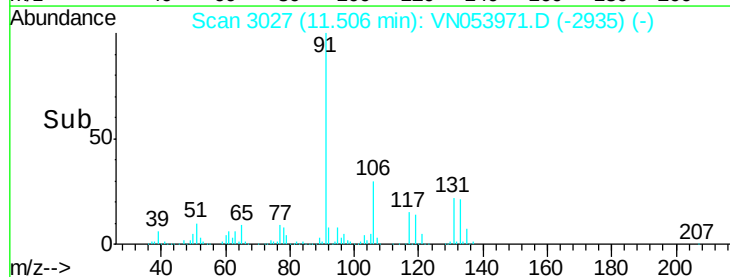
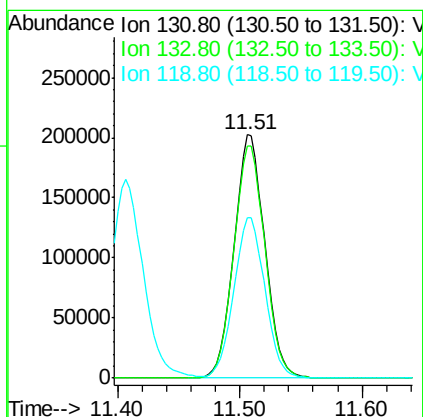
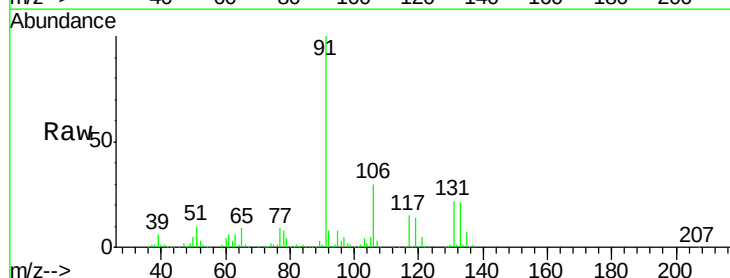
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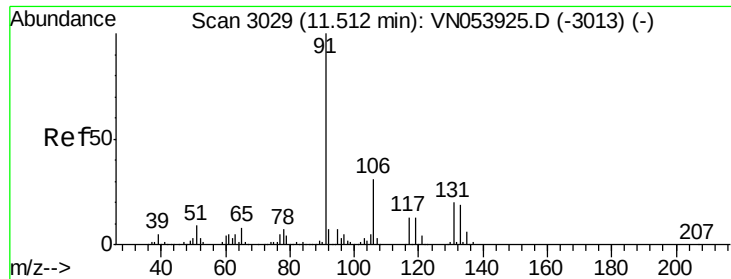
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.439 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion:131 Resp: 352847
Ion Ratio Lower Upper
131 100
133 96.7 47.7 143.1
119 66.9 33.1 99.3





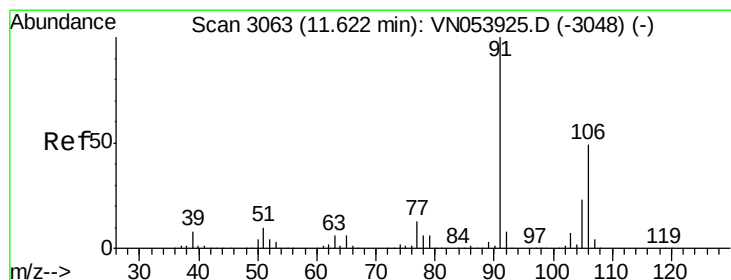
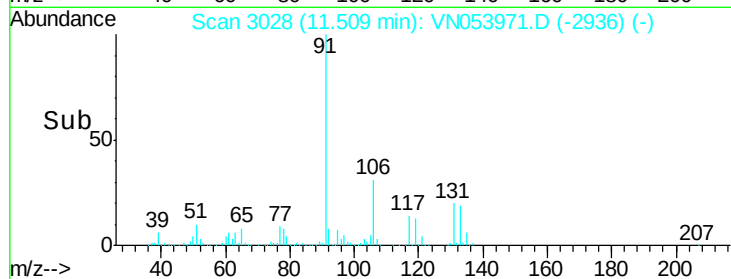
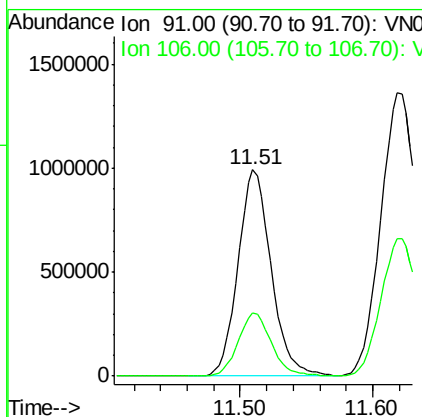
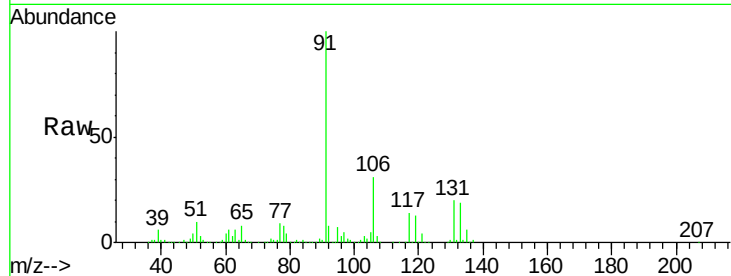
#67
Ethyl Benzene
Concen: 51.977 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1725534
Ion Ratio Lower Upper
91 100
106 30.5 25.2 37.8

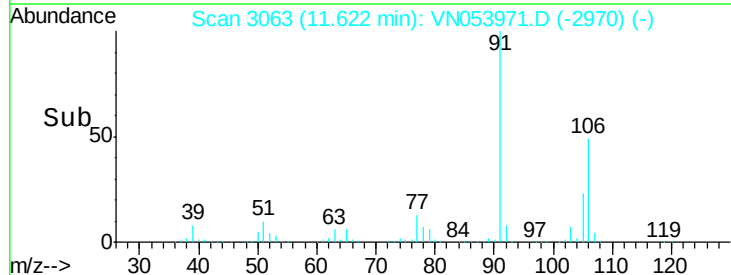
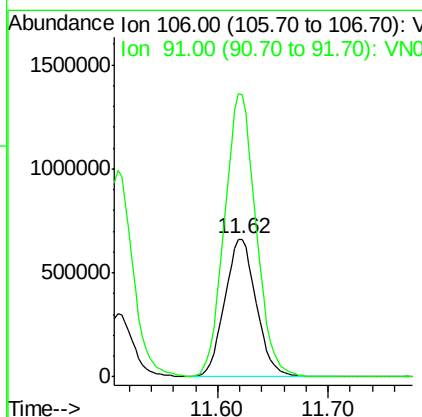
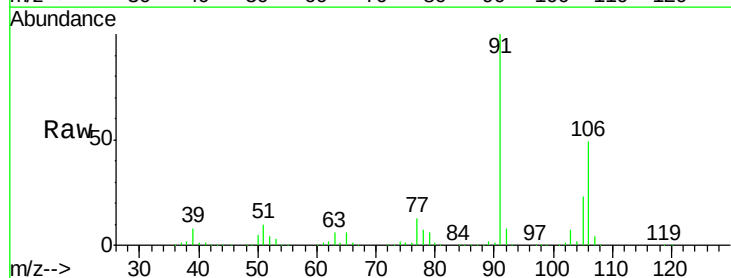
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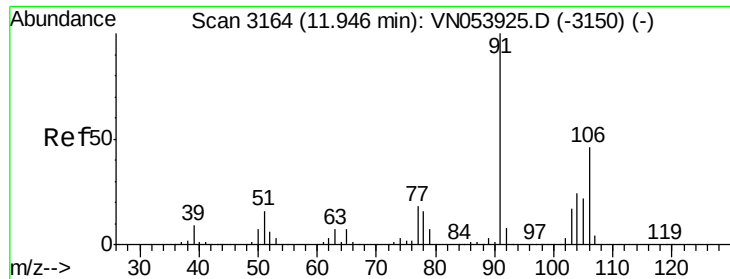
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#68
m/p-Xylenes
Concen: 104.816 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion: 106 Resp: 1313316
Ion Ratio Lower Upper
106 100
91 205.2 158.9 238.3





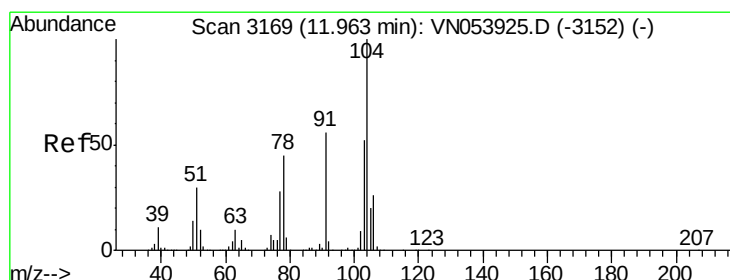
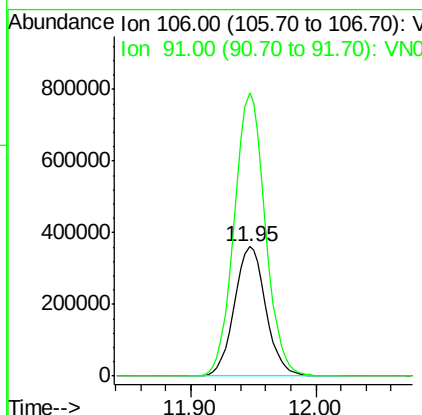
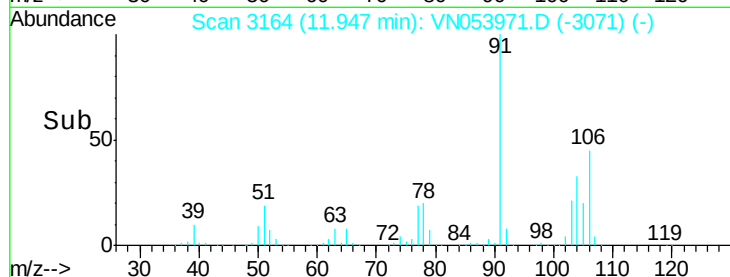
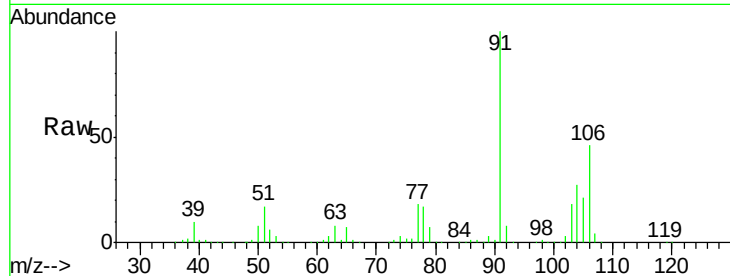
#69
o-Xylene
Concen: 51.110 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 629236
Ion Ratio Lower Upper
106 100
91 216.1 106.0 318.0

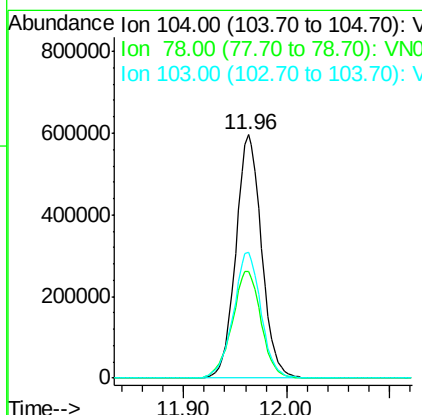
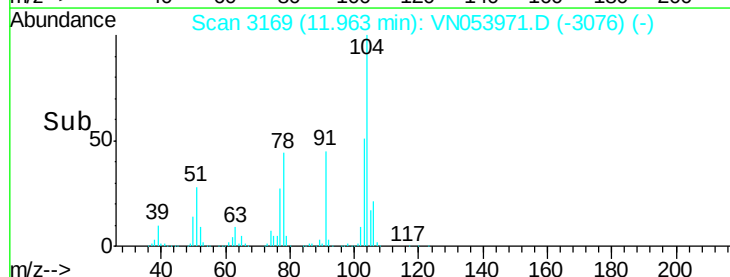
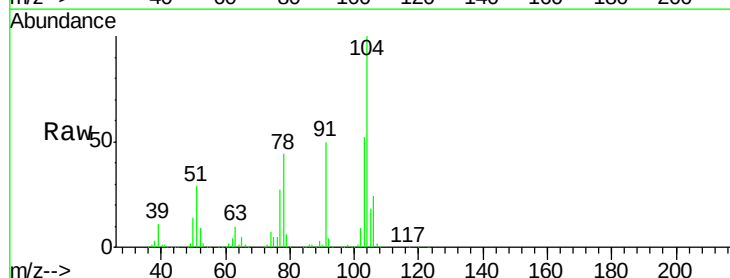
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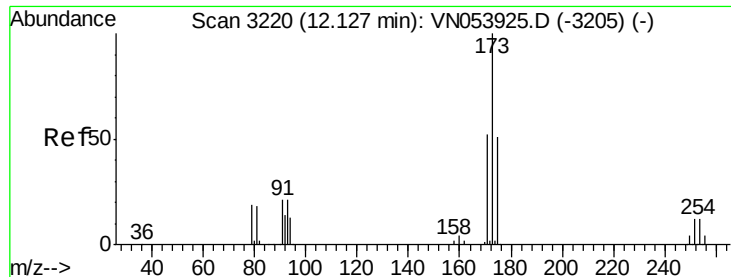
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#70
Styrene
Concen: 54.811 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053971.D
Acq: 27 Feb 2019 16:12

Tgt Ion:104 Resp: 1037916
Ion Ratio Lower Upper
104 100
78 49.0 38.1 57.1
103 55.4 44.6 67.0





#71

Bromoform

Concen: 49.264 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

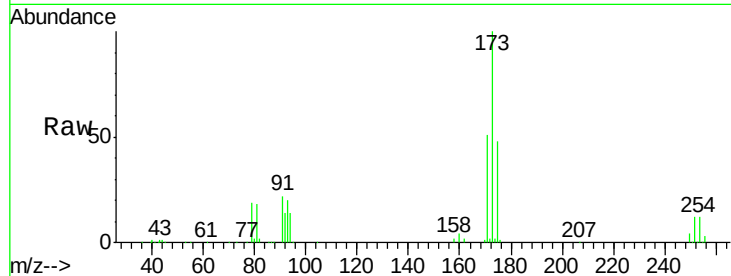
ClientSampleId :

VSTDCCC050

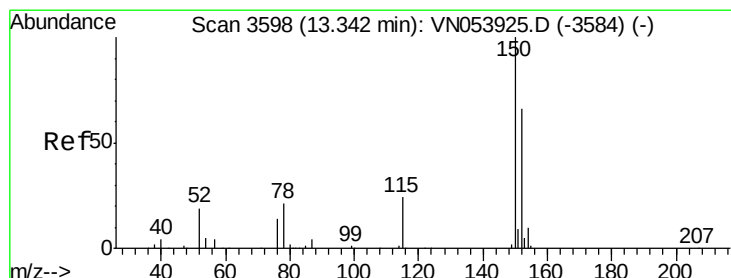
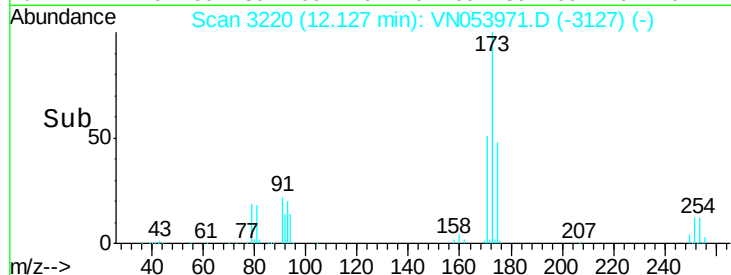
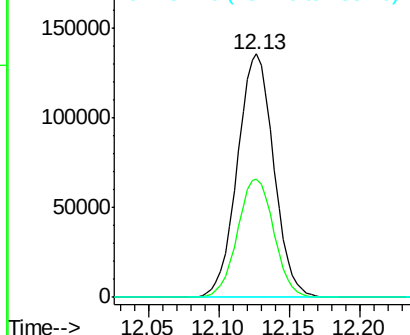
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.3	72.8
254	0.1	0.2	0.2

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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

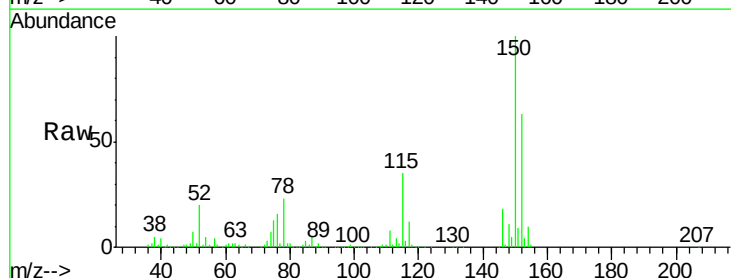
RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

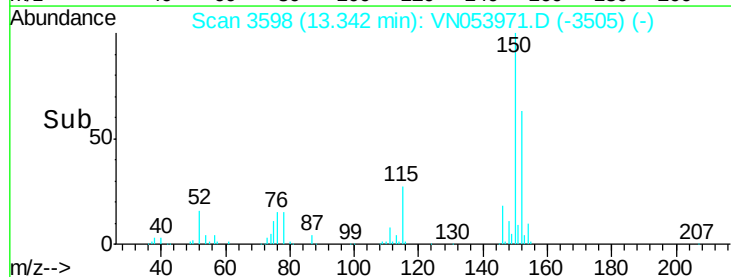
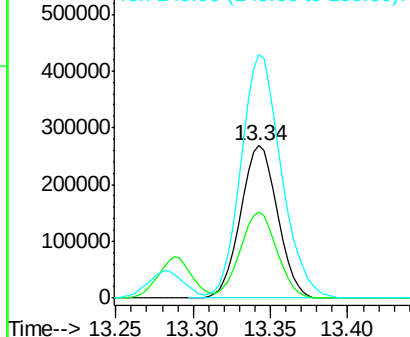
Lab File: VN053971.D

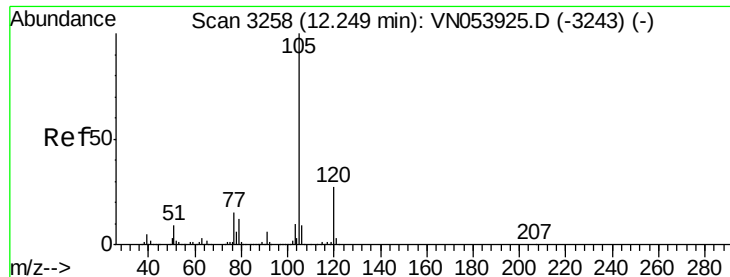
Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	27.2	81.6
150	174.2	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: 48.123 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1669881

Ion Ratio Lower Upper

105 100

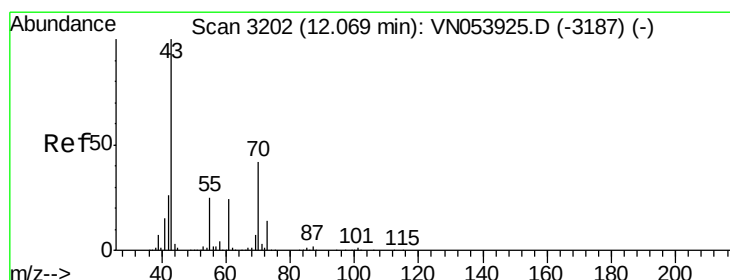
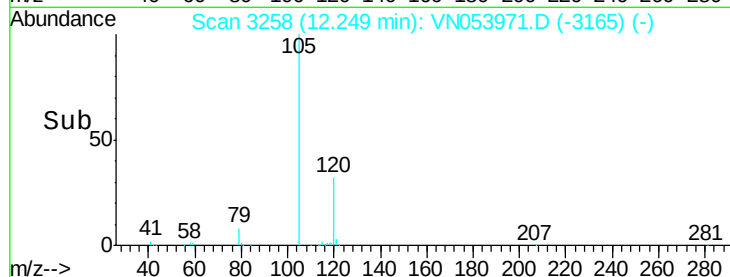
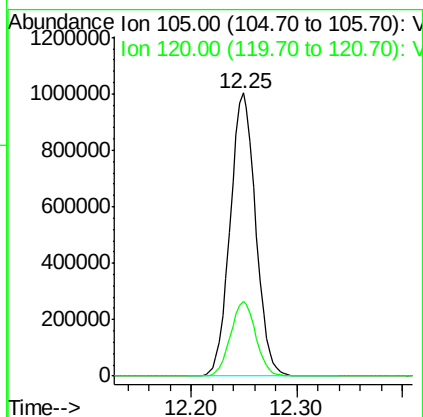
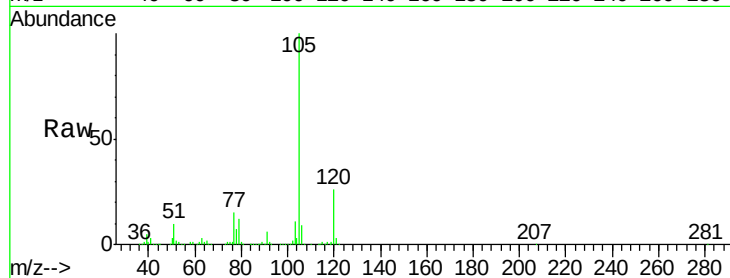
120 26.3 13.5 40.5

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#74

N-ethyl acetate

Concen: 51.618 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Tgt Ion: 43 Resp: 469455

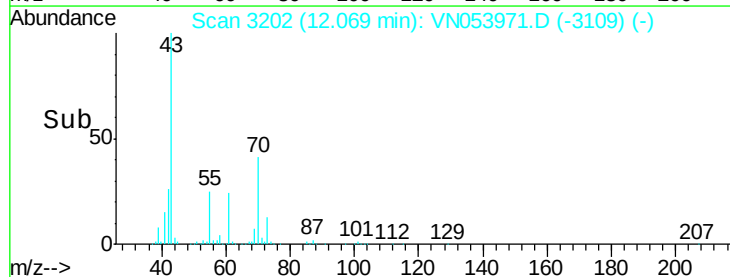
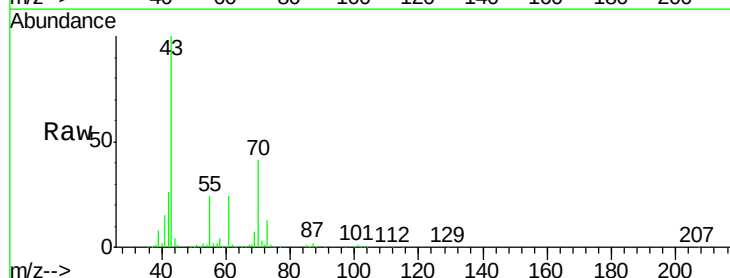
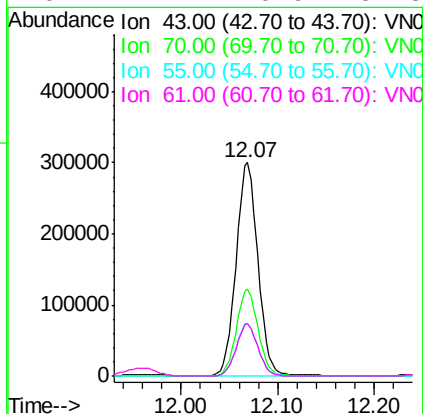
Ion Ratio Lower Upper

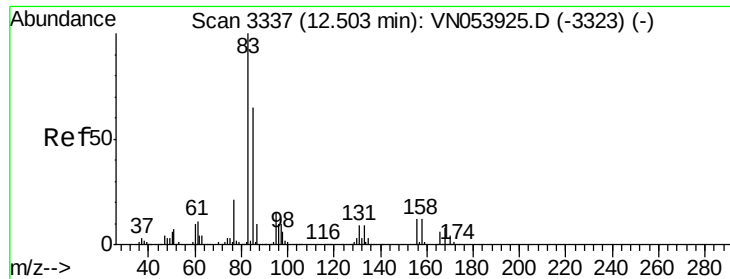
43 100

70 40.6 37.4 56.2

55 25.0 21.4 32.0

61 24.2 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 45.390 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 393867
Ion Ratio Lower Upper

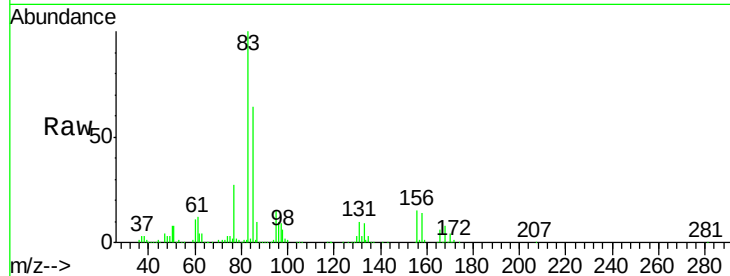
83 100

131 10.2 5.3 16.1

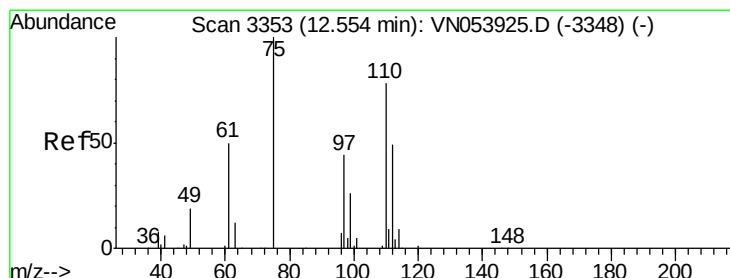
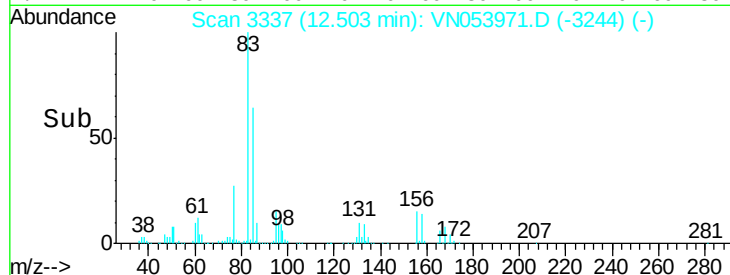
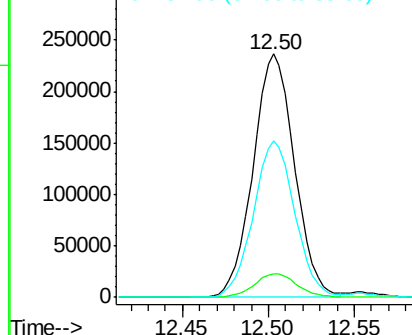
85 64.4 31.9 95.9

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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): VN
Ion 84.90 (84.60 to 85.60): VN



#76

1,2,3-Trichloropropane

Concen: 49.366 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

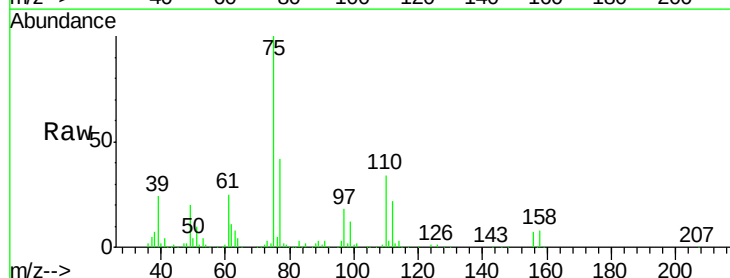
Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

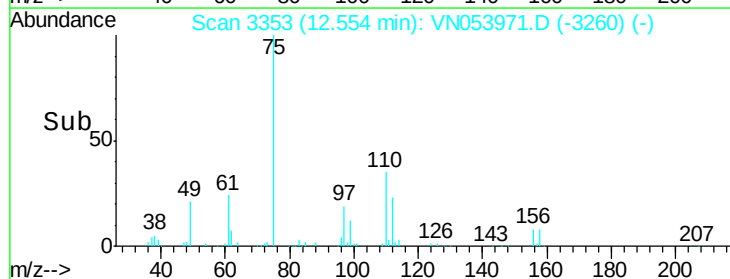
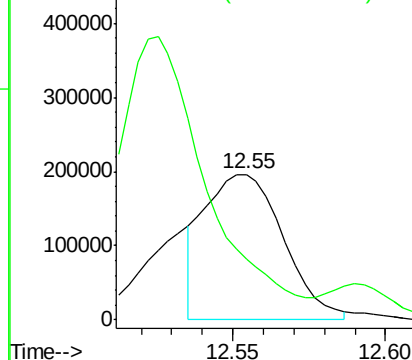
Tgt Ion: 75 Resp: 353015
Ion Ratio Lower Upper

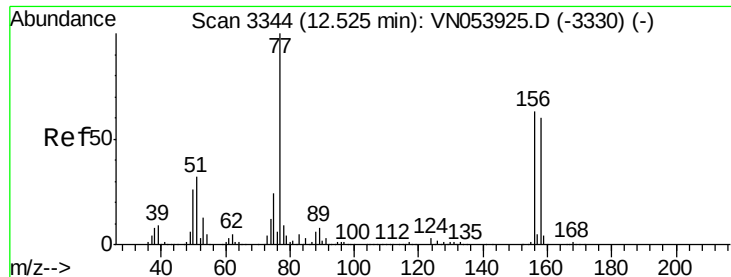
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN





#77

Bromobenzene

Concen: 47.096 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

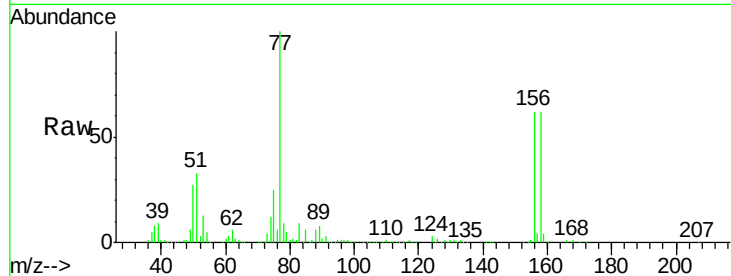
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	189.2	84.0	252.2
158	98.4	48.5	145.6

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2/28/2019 2:55:27 PM

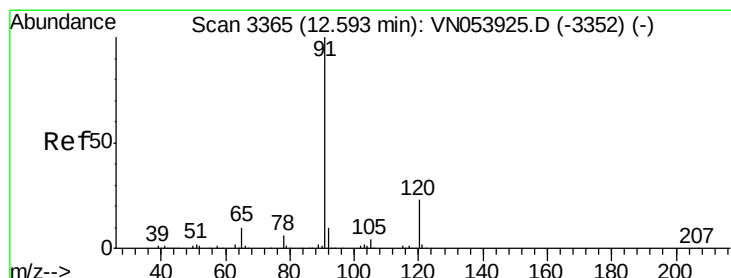
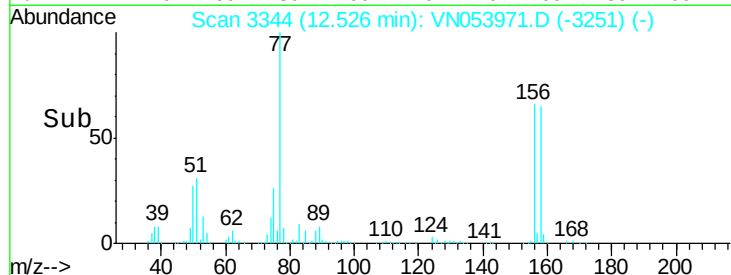
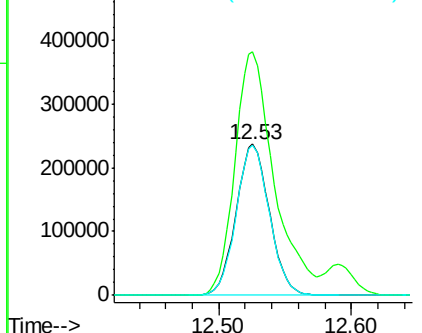


Abundance

Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 50.640 ug/l

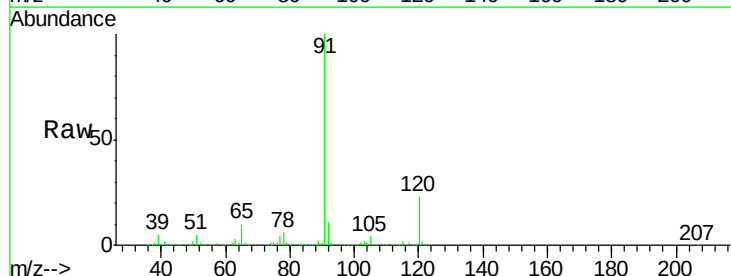
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

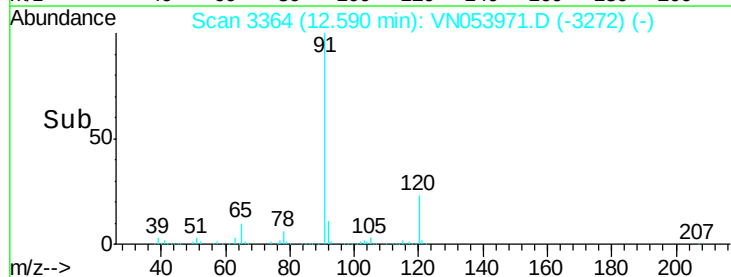
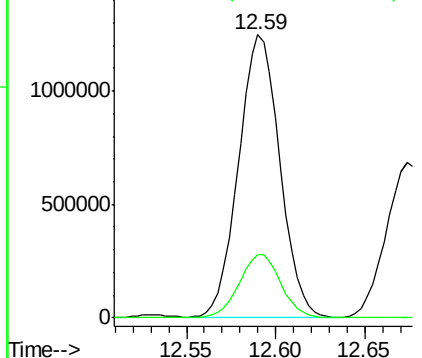
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.9	35.9

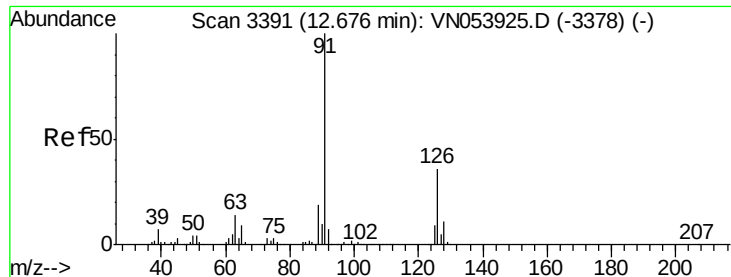


Abundance

Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.029 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1162297

Ion Ratio Lower Upper

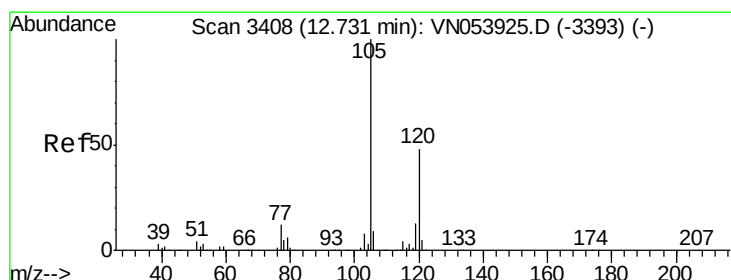
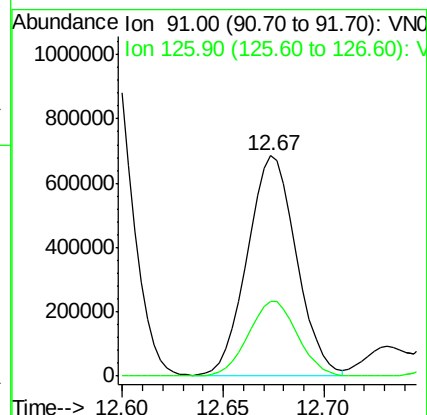
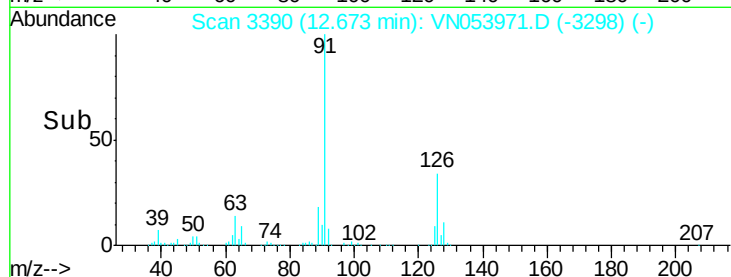
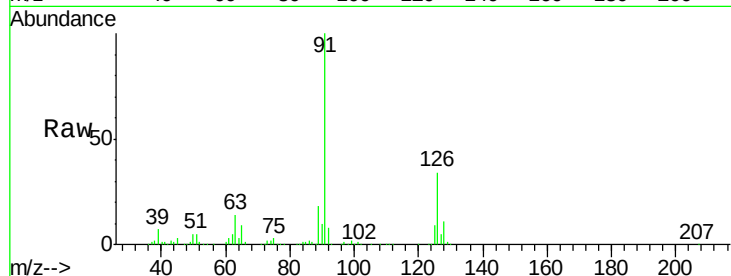
91 100

126 34.4 18.1 54.4

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#80

1,3,5-Trimethylbenzene

Concen: 50.835 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053971.D

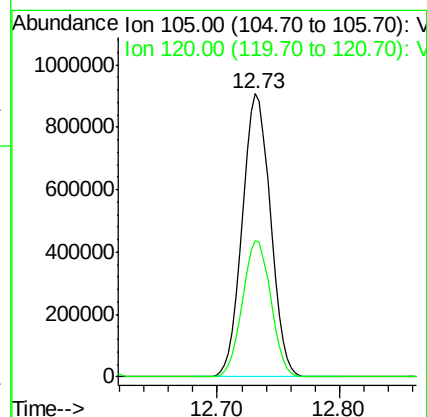
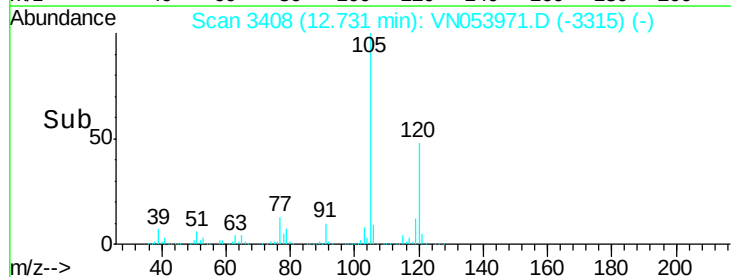
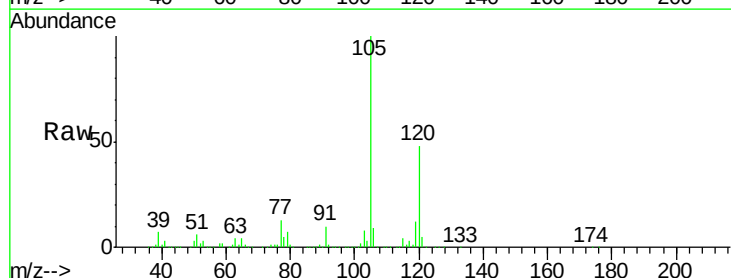
Acq: 27 Feb 2019 16:12

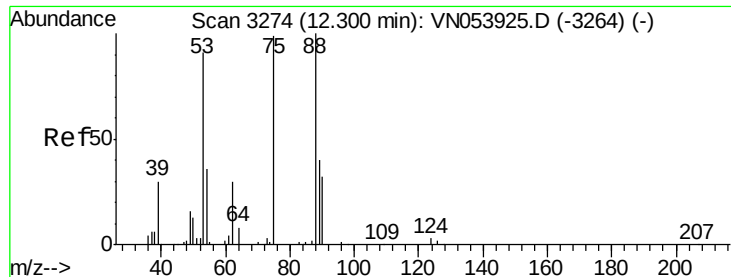
Tgt Ion: 105 Resp: 1444121

Ion Ratio Lower Upper

105 100

120 48.4 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 46.896 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

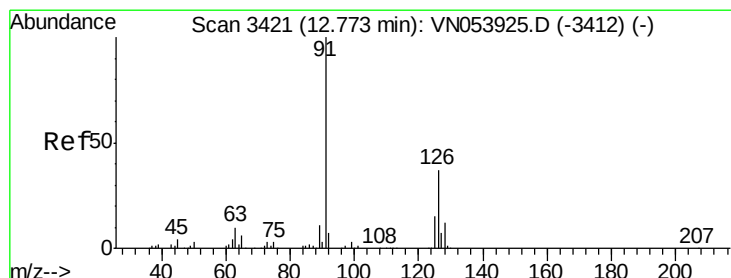
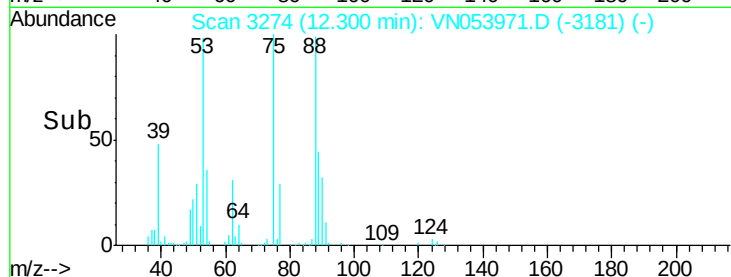
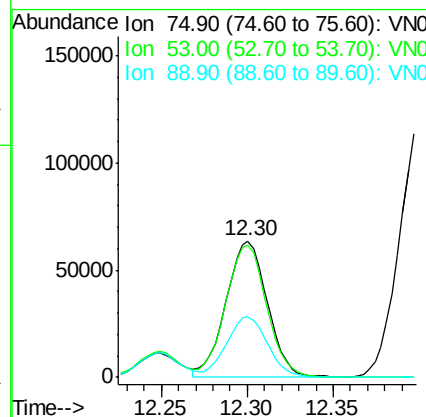
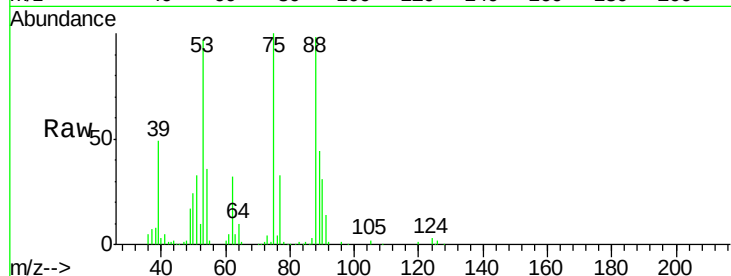
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	106102
Ion	Ratio	Lower	Upper
75	100		
53	98.1	68.6	102.8
89	44.6	35.3	52.9

Manual Integrations
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#82

4-Chlorotoluene

Concen: 50.459 ug/l

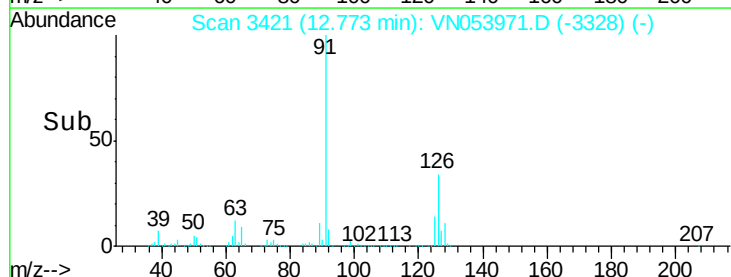
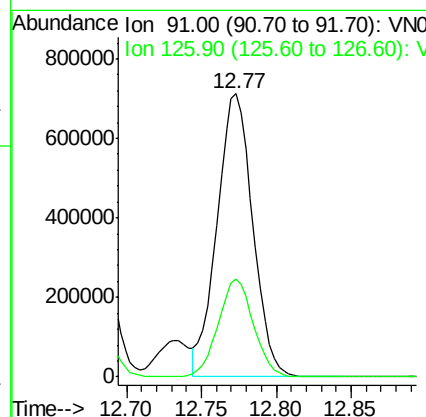
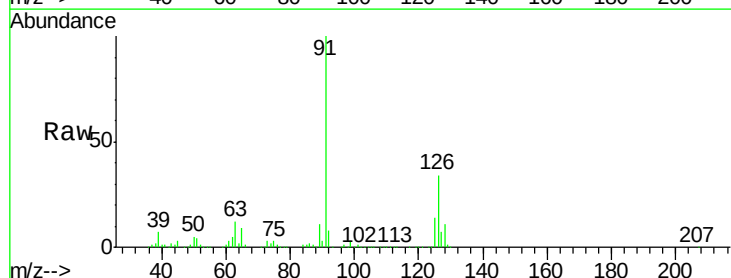
RT: 12.77 min Scan# 3421

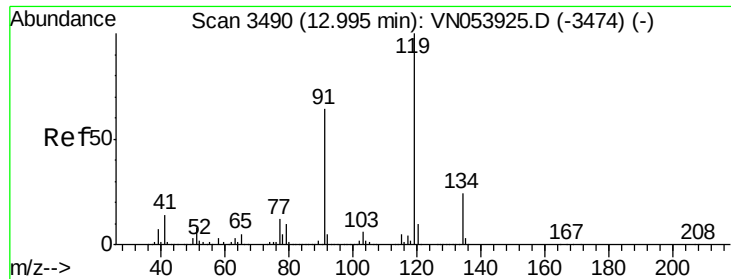
Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Tgt Ion:	91	Resp:	1182252
Ion	Ratio	Lower	Upper
91	100		
126	34.0	18.0	54.0





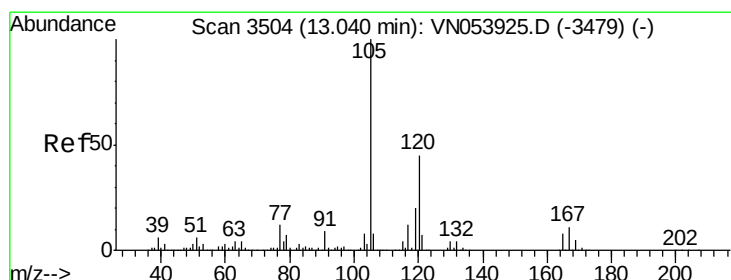
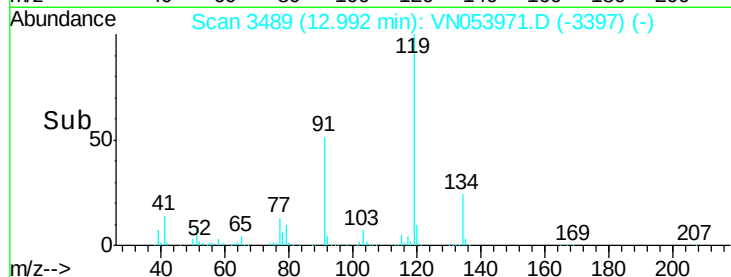
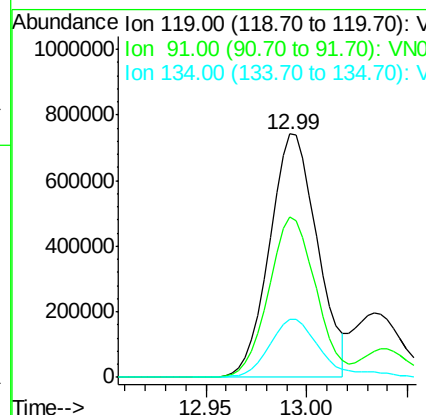
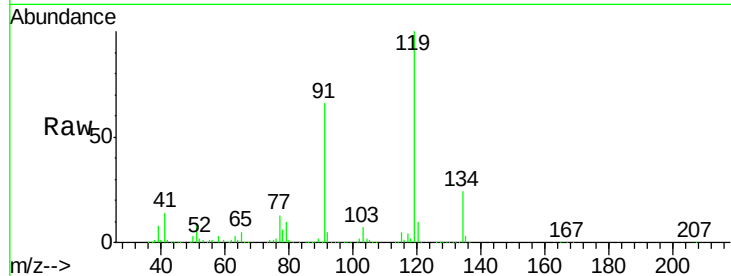
#83
 tert-Butylbenzene
 Concen: 48.611 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.0	30.6	91.8
134	26.0	13.0	39.0

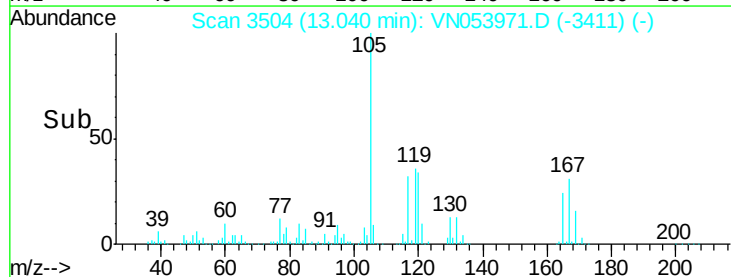
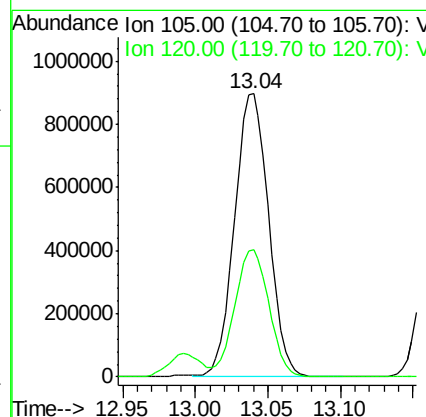
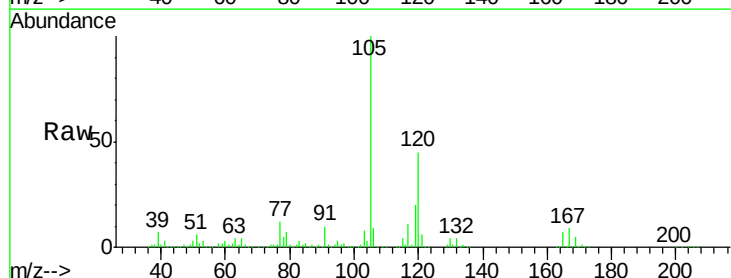
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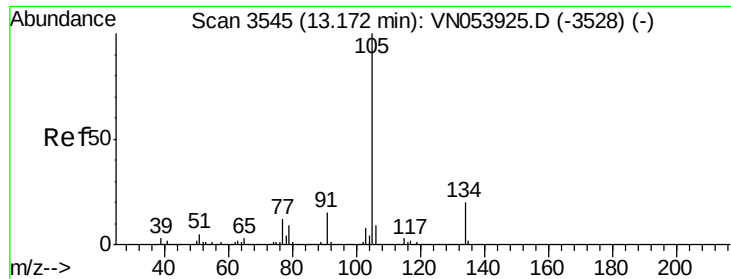
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 51.482 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	23.2	69.5





#85

sec-Butylbenzene

Concen: 50.173 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1721752

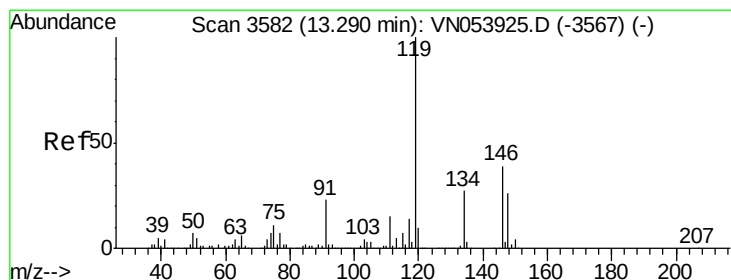
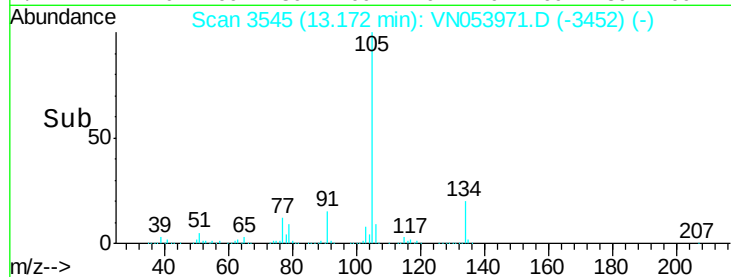
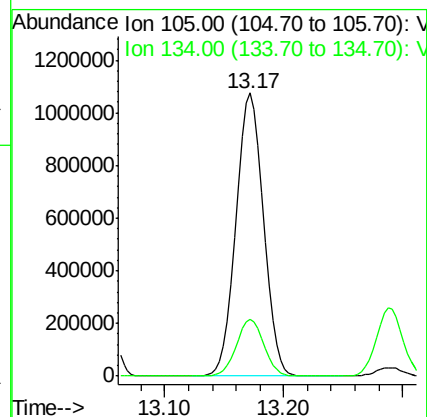
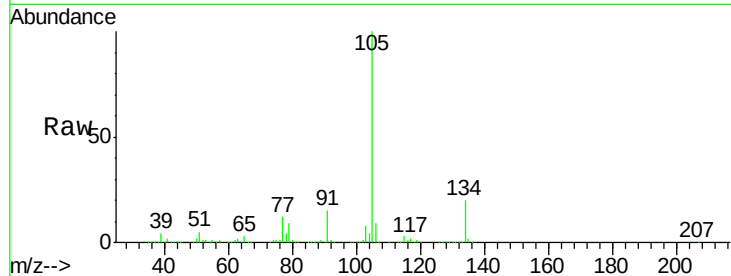
Ion Ratio Lower Upper

105 100

134 20.1 10.4 31.1

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#86

p-Isopropyltoluene

Concen: 51.397 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

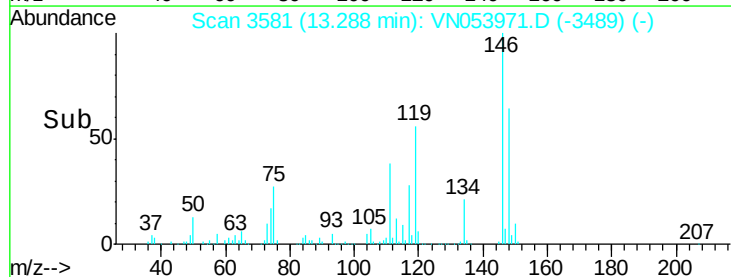
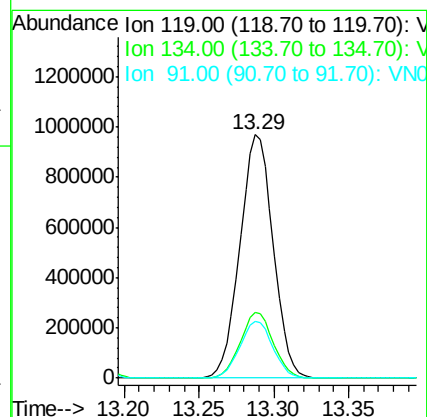
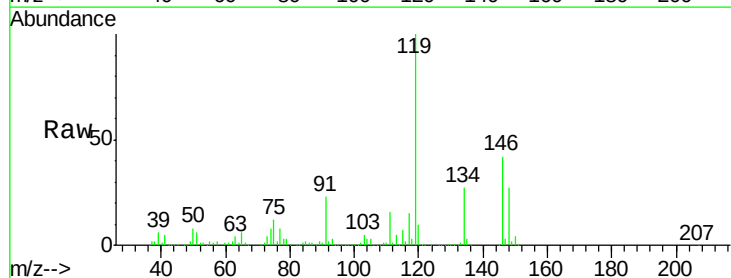
Tgt Ion:119 Resp: 1491065

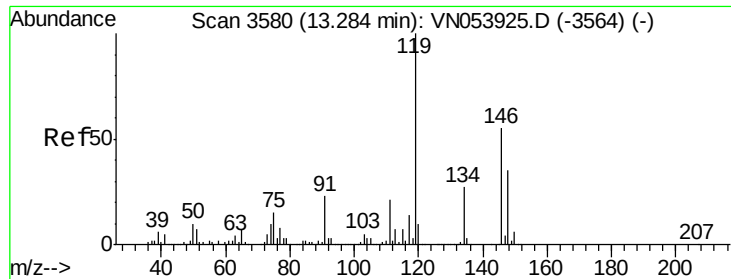
Ion Ratio Lower Upper

119 100

134 26.6 13.5 40.4

91 23.2 10.9 32.6





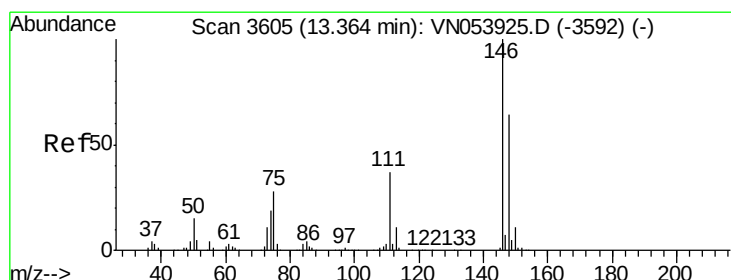
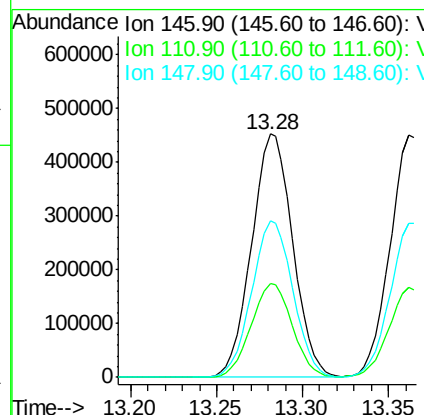
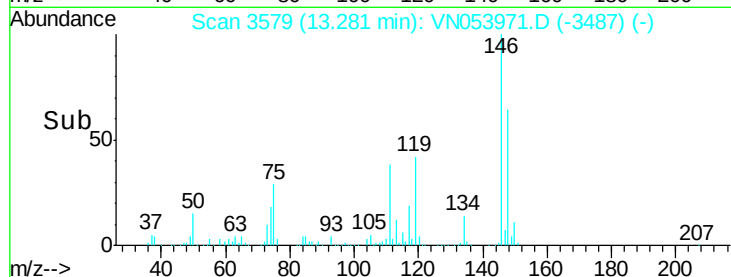
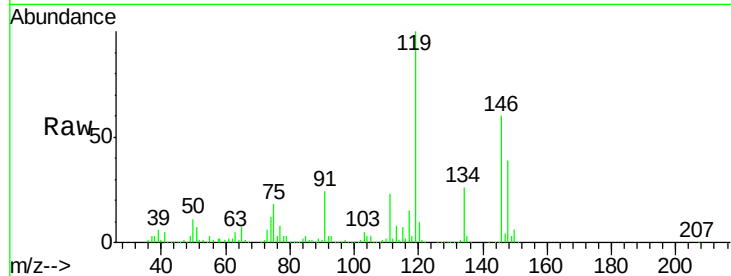
#87
 1,3-Dichlorobenzene
 Concen: 49.263 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.7	56.1
148	64.3	32.0	96.2

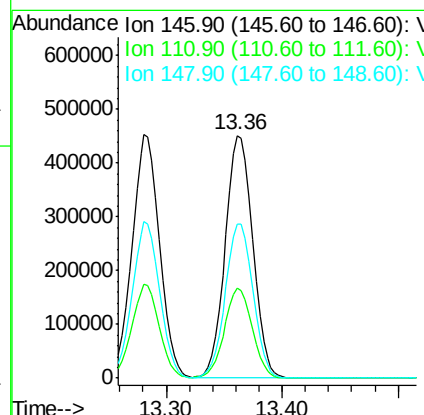
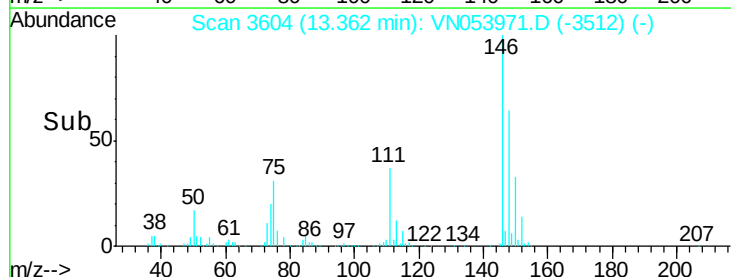
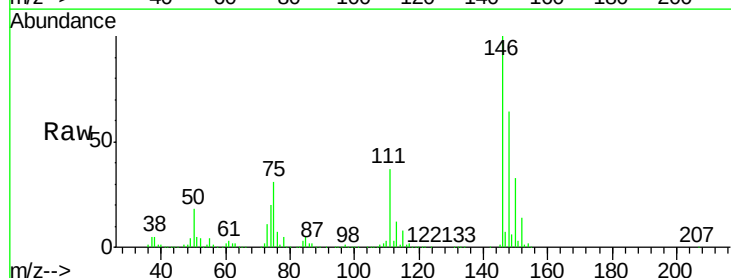
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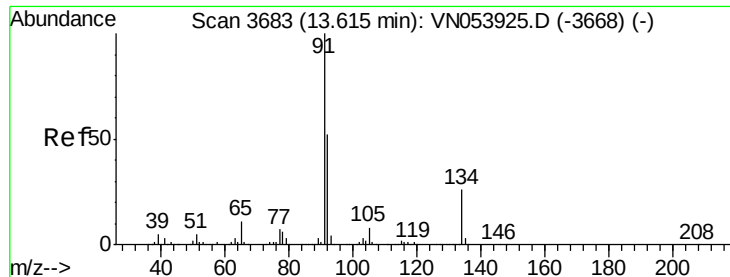
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 50.256 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.0	54.0
148	63.8	32.1	96.5





#89

n-Butylbenzene

Concen: 55.212 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1349876

Ion Ratio Lower Upper

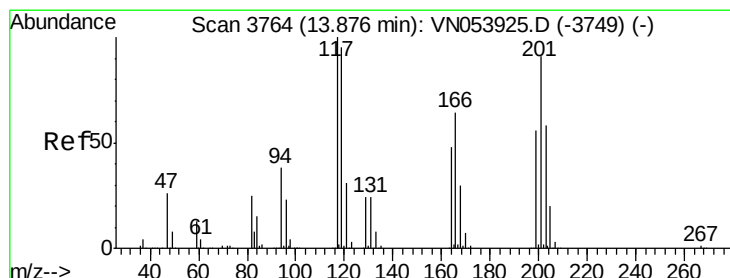
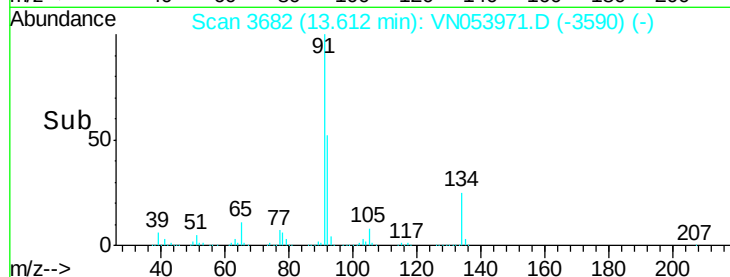
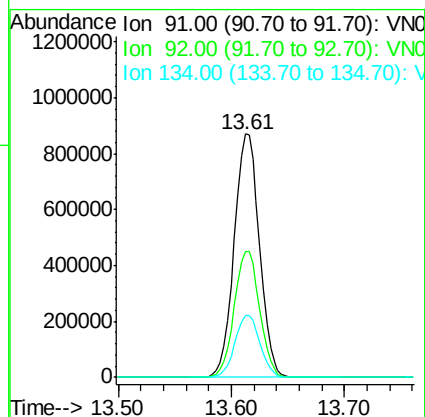
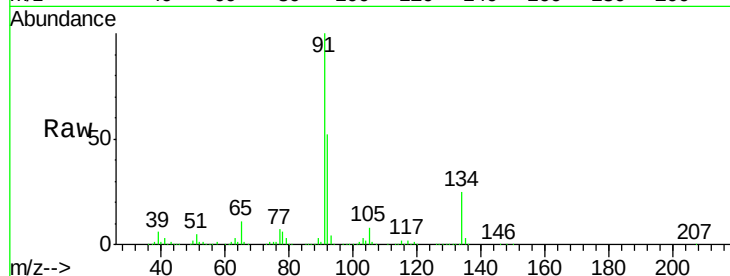
91 100

92 52.0 26.1 78.2

134 25.4 13.6 40.8

Manual Integrations
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#90

Hexachloroethane

Concen: 46.465 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN053971.D

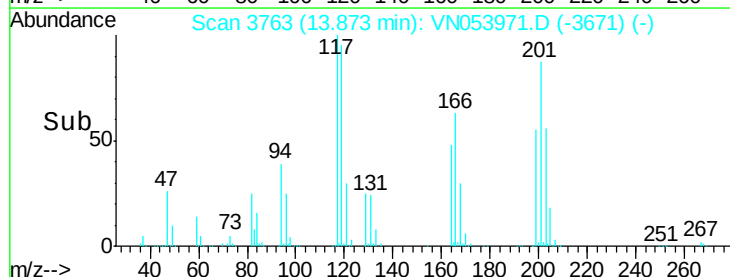
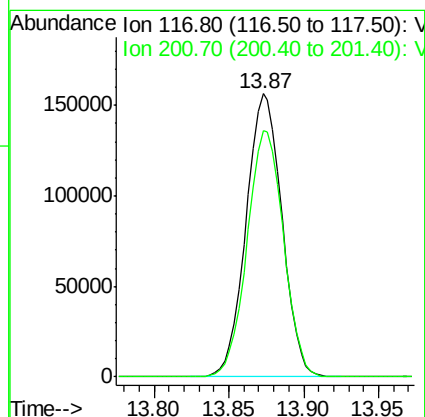
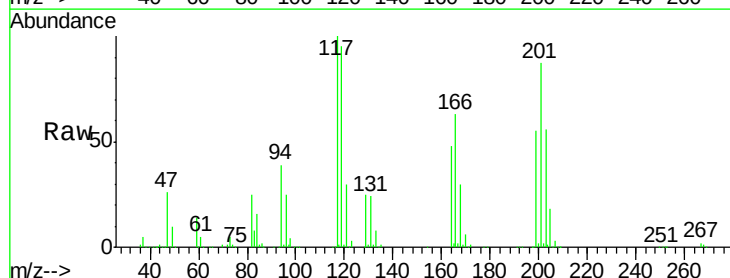
Acq: 27 Feb 2019 16:12

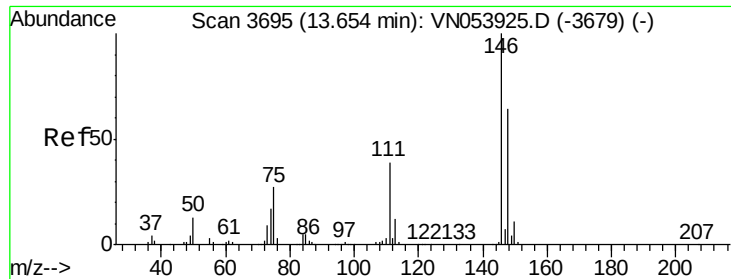
Tgt Ion: 117 Resp: 261210

Ion Ratio Lower Upper

117 100

201 88.3 48.0 144.2





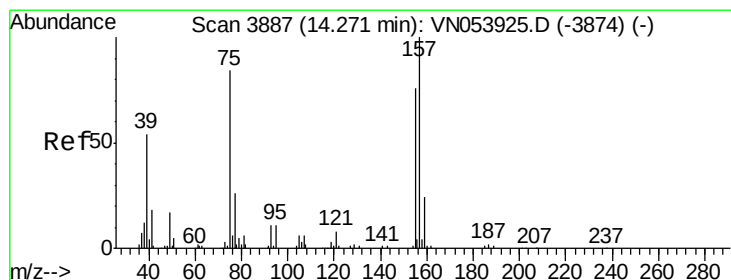
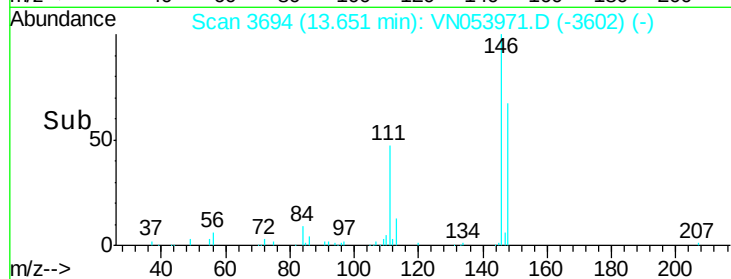
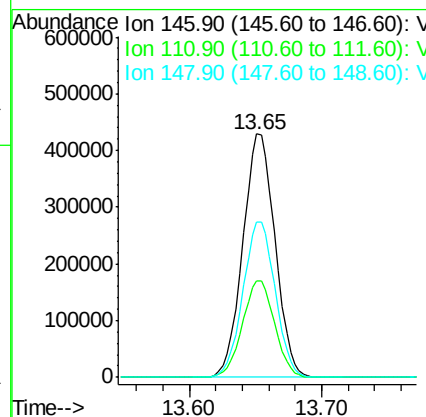
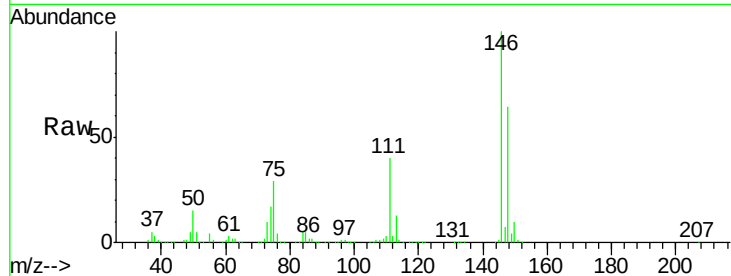
#91
 1,2-Dichlorobenzene
 Concen: 49.070 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.1	57.5
148	64.0	32.1	96.5

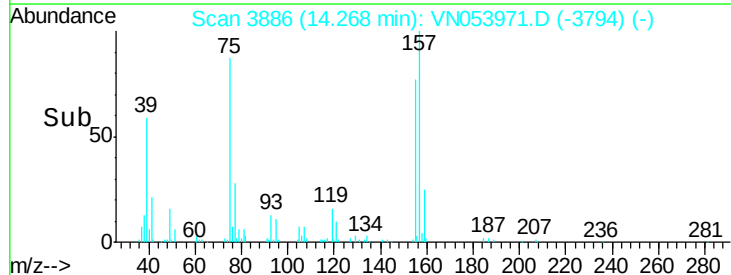
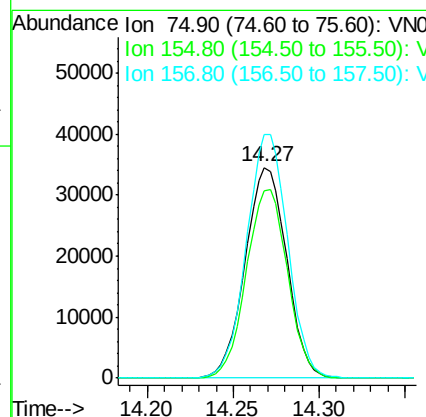
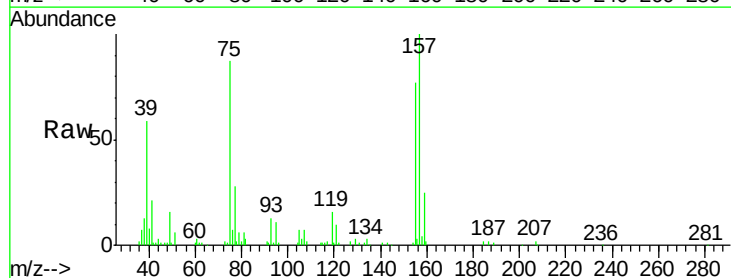
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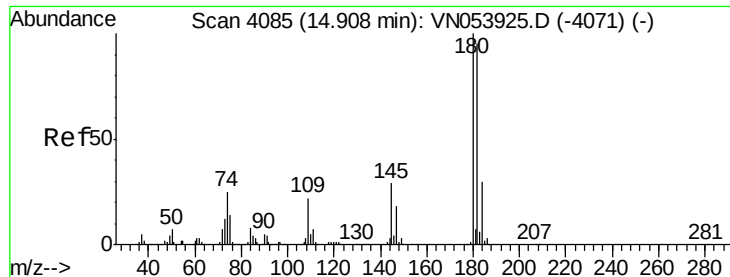
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 2/28/2019 2:55:27 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.266 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.7	49.5	148.5
157	114.5	64.8	194.6





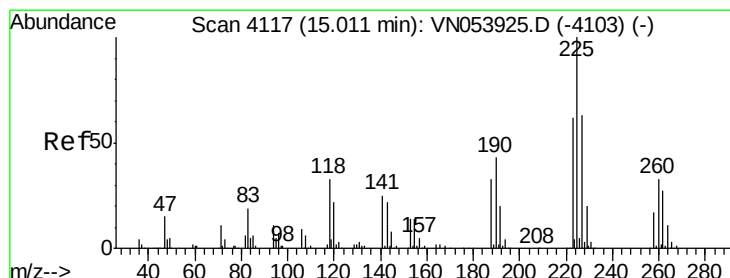
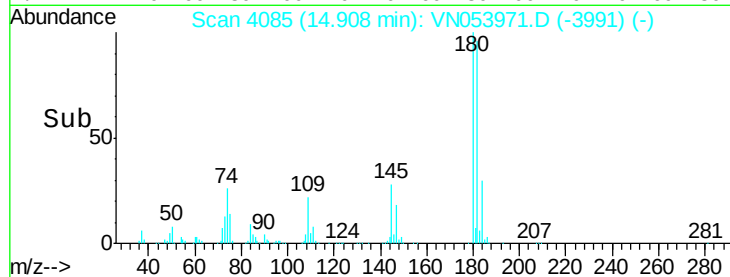
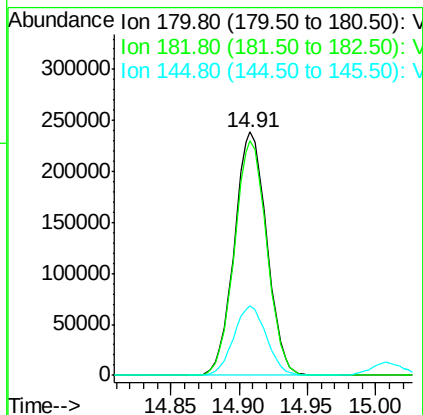
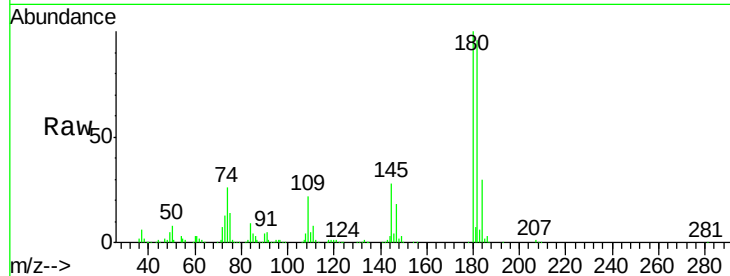
#93
 1,2,4-Trichlorobenzene
 Concen: 48.119 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	393543		
182	95.9	48.6	145.9	
145	28.8	13.8	41.3	

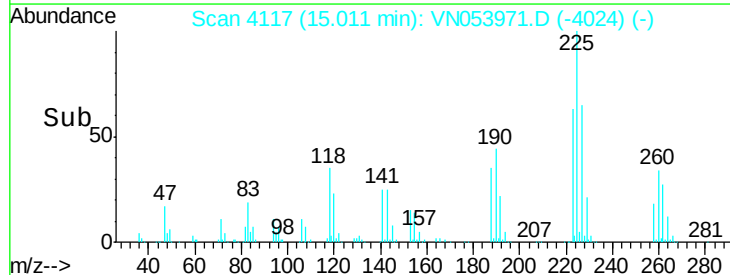
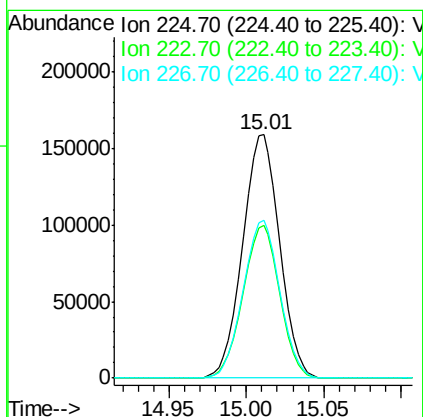
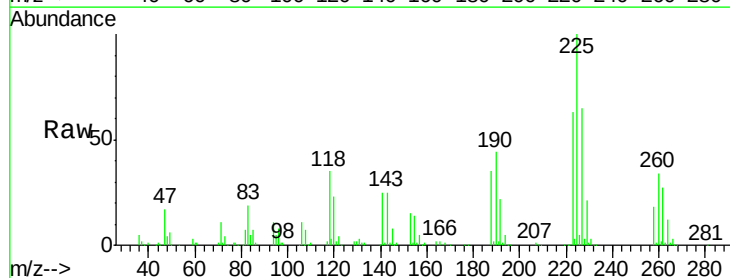
Manual Integrations
 APPROVED

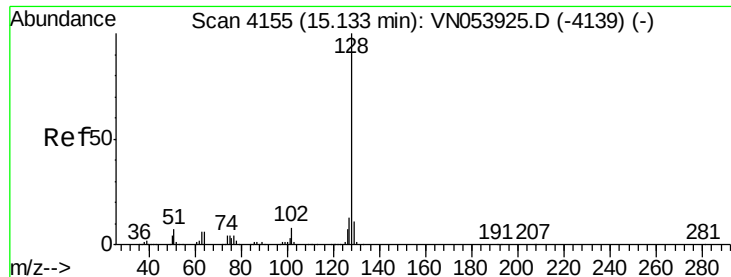
MMDadoda
 2/28/2019 2:55:27 PM



#94
 Hexachlorobutadiene
 Concen: 49.650 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053971.D
 Acq: 27 Feb 2019 16:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	264600		
223	62.2	30.9	92.5	
227	64.3	32.5	97.4	





#95

Naphthalene

Concen: 44.303 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Instrument :

MSVOA_N

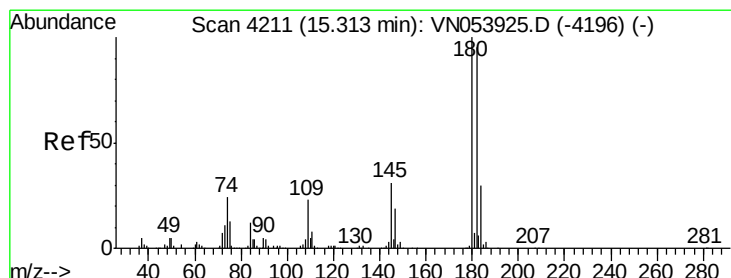
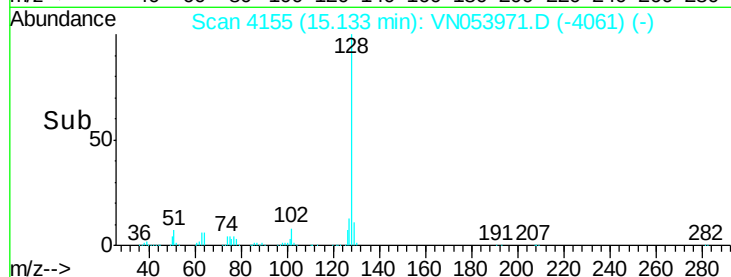
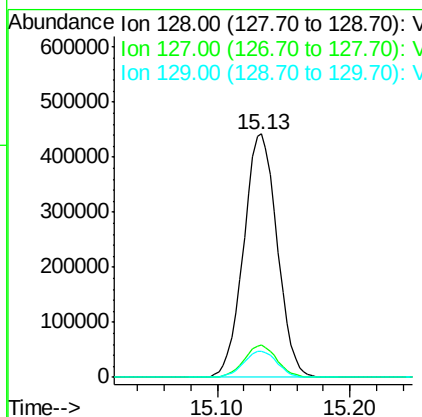
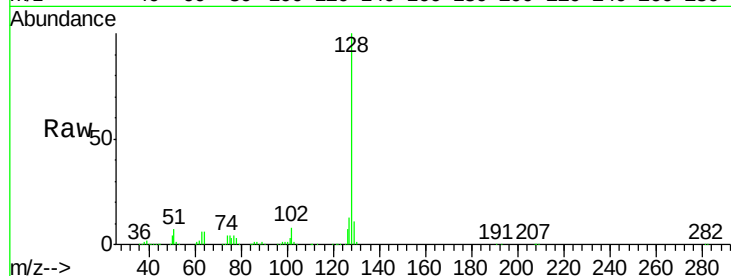
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	775046
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.2
129	10.8	8.6	12.8

Manual Integrations
APPROVED

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2/28/2019 2:55:27 PM



#96

1,2,3-Trichlorobenzene

Concen: 47.989 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053971.D

Acq: 27 Feb 2019 16:12

Tgt Ion:	180	Resp:	376648
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.3	141.8
145	30.5	14.4	43.0

