

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053041.D
 Acq On : 20 Dec 2018 5:30
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 9:33:40 AM

Quant Time: Dec 20 08:04:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1153296	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1763474	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1579539	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	687379	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	591884	50.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.14%	
35) Dibromofluoromethane	7.59	113	472800	58.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	117.38%	
50) Toluene-d8	10.09	98	2224466	51.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.40	95	752670	49.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.16%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	512527	43.910	ug/l	100
3) Chloromethane	2.06	50	656617	46.423	ug/l	99
4) Vinyl Chloride	2.19	62	679417	47.429	ug/l	100
5) Bromomethane	2.57	94	439419	44.275	ug/l	100
6) Chloroethane	2.71	64	391165	46.107	ug/l	100
7) Trichlorofluoromethane	3.03	101	857241	48.038	ug/l	99
8) Diethyl Ether	3.41	74	340334	50.553	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	520770	45.770	ug/l	97
10) Methyl Iodide	3.96	142	782118	48.949	ug/l	99
11) Tert butyl alcohol	4.78	59	177745	248.901	ug/l	99
12) 1,1-Dichloroethene	3.74	96	533510	48.534	ug/l	97
13) Acrolein	3.61	56	188694	291.410	ug/l	98
14) Allyl chloride	4.33	41	810715	47.614	ug/l	97
15) Acrylonitrile	4.99	53	976935	246.248	ug/l	99
16) Acetone	3.82	43	614013	267.574	ug/l	97
17) Carbon Disulfide	4.06	76	1526431	42.580	ug/l	100
18) Methyl Acetate	4.33	43	505969	48.608	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	1505803	51.189	ug/l	99
20) Methylene Chloride	4.55	84	603153	48.185	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	567132	48.020	ug/l	98
22) Diisopropyl ether	5.95	45	1857109	51.098	ug/l	96
23) Vinyl Acetate	5.90	43	5347052	255.852	ug/l	98
24) 1,1-Dichloroethane	5.85	63	1070706	49.577	ug/l	99
25) 2-Butanone	6.83	43	1017565	264.224	ug/l	98
26) 2,2-Dichloropropane	6.83	77	616412	37.390	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	659396	49.317	ug/l	98
28) Bromochloromethane	7.20	49	459747	49.127	ug/l	94
29) Tetrahydrofuran	7.21	42	717205	249.350	ug/l	97
30) Chloroform	7.37	83	1047545	49.376	ug/l	99
31) Cyclohexane	7.65	56	977267	48.210	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	876200	48.481	ug/l	99
36) 1,1-Dichloropropene	7.79	75	821308	48.523	ug/l	99
37) Ethyl Acetate	6.93	43	486207	51.456	ug/l	98
38) Carbon Tetrachloride	7.77	117	746637	48.125	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	922041	44.842	ug/l	98
40) Benzene	8.04	78	2497395	49.604	ug/l	100
41) Methacrylonitrile	7.18	41	287326	52.628	ug/l	95
42) 1,2-Dichloroethane	8.13	62	723309	48.631	ug/l	98
43) Isopropyl Acetate	8.16	43	921420	50.399	ug/l	98
44) Trichloroethene	8.83	130	696126	47.803	ug/l	97
45) 1,2-Dichloropropane	9.12	63	662695	50.534	ug/l	99
46) Dibromomethane	9.21	93	371791	48.667	ug/l	98
47) Bromodichloromethane	9.40	83	791340	48.731	ug/l	100
48) Methyl methacrylate	9.20	41	461437	50.325	ug/l	98
49) 1,4-Dioxane	9.20	88	107468	926.566	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	2375794	259.630	ug/l	98
52) Toluene	10.16	92	1549645	49.658	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	803313	47.044	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	936517	47.781	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	539547	49.559	ug/l	100
56) Ethyl methacrylate	10.43	69	744299	51.652	ug/l	97
57) 1,3-Dichloropropane	10.71	76	935155	50.091	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	2019636	255.295	ug/l	98
59) 2-Hexanone	10.75	43	1593501	257.382	ug/l	98
60) Dibromochloromethane	10.90	129	600589	48.194	ug/l	99
61) 1,2-Dibromoethane	11.01	107	548053	49.567	ug/l	99
64) Tetrachloroethene	10.63	164	794177	46.416	ug/l	98
65) Chlorobenzene	11.43	112	1715353	48.991	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	602687	49.498	ug/l	100
67) Ethyl Benzene	11.51	91	2954772	49.071	ug/l	100
68) m/p-Xylenes	11.62	106	2211931	96.629	ug/l	99
69) o-Xylene	11.95	106	1083657	49.334	ug/l	100
70) Styrene	11.96	104	1786379	49.874	ug/l	100
71) Bromoform	12.13	173	407215	46.295	ug/l #	100
73) Isopropylbenzene	12.25	105	2844195	52.884	ug/l	99
74) N-amyl acetate	12.07	43	895313	59.961	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	589156	55.838	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	526525m	45.503	ug/l	
77) Bromobenzene	12.53	156	735618	52.619	ug/l	97
78) n-propylbenzene	12.59	91	3194532	52.154	ug/l	99
79) 2-Chlorotoluene	12.68	91	1862062	49.044	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2226355	50.788	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	167032	46.526	ug/l	98
82) 4-Chlorotoluene	12.77	91	1892744	50.927	ug/l	99
83) tert-Butylbenzene	12.99	119	1950066	50.299	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2282765	51.801	ug/l	99
85) sec-Butylbenzene	13.17	105	2551029	48.647	ug/l	99
86) p-Isopropyltoluene	13.29	119	2192235	48.381	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1205222	48.709	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1193822	47.644	ug/l	100
89) n-Butylbenzene	13.62	91	1776258	45.565	ug/l	99
90) Hexachloroethane	13.88	117	327702	47.128	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1114664	47.867	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	82756	45.362	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	569459	46.202	ug/l	100
94) Hexachlorobutadiene	15.01	225	300246	46.818	ug/l	99
95) Naphthalene	15.13	128	1273935	47.203	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	512756	46.192	ug/l	99

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

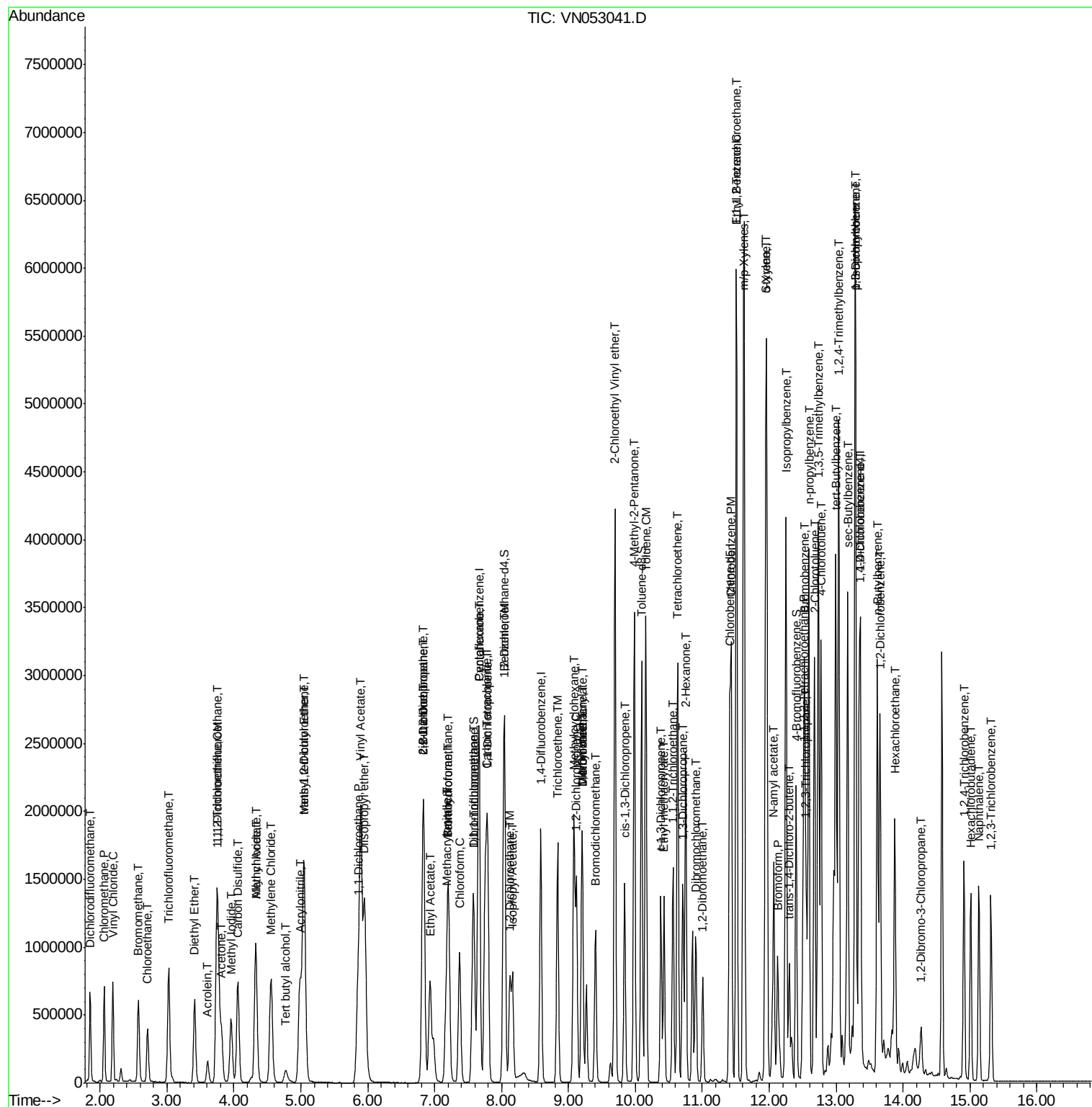
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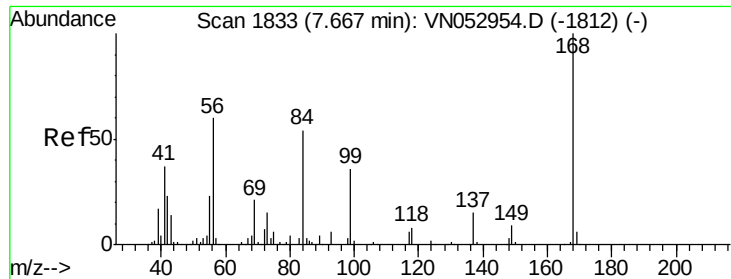
Instrument :
MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 1153296

Ion Ratio Lower Upper

168 100

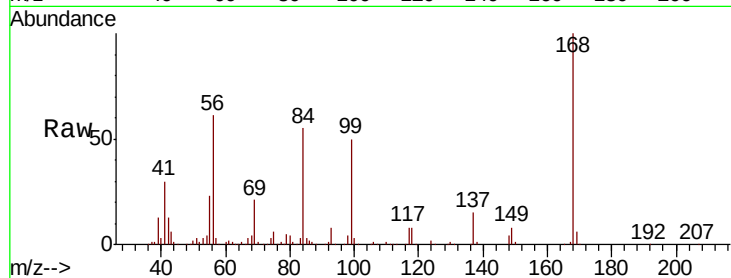
99 49.4 40.2 60.2

Manual Integrations

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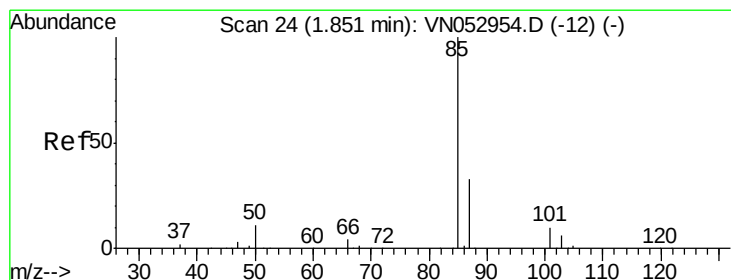
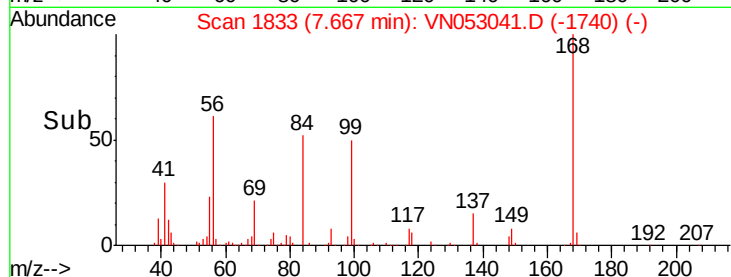
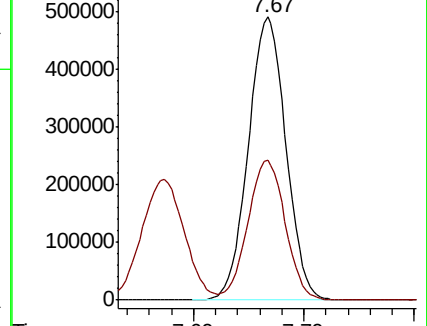
MMDadoda

12/20/2018 9:33:40 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 43.910 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053041.D

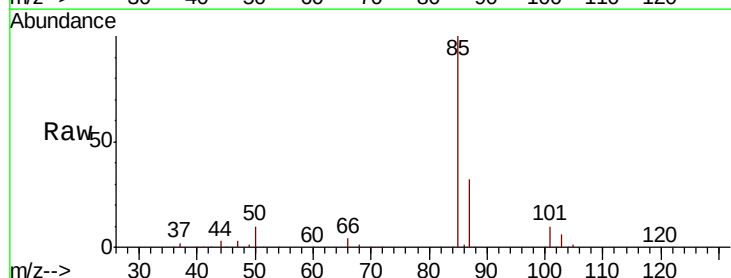
Acq: 20 Dec 2018 5:30

Tgt Ion: 85 Resp: 512527

Ion Ratio Lower Upper

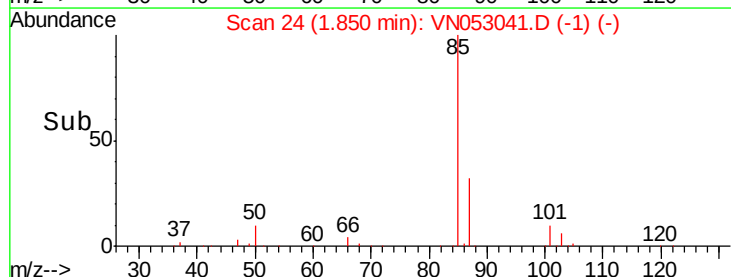
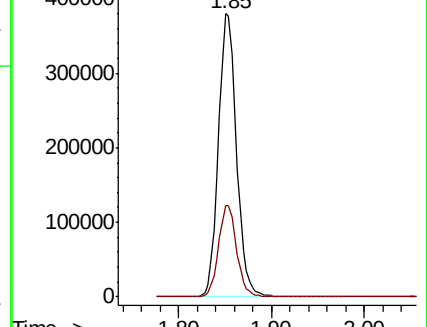
85 100

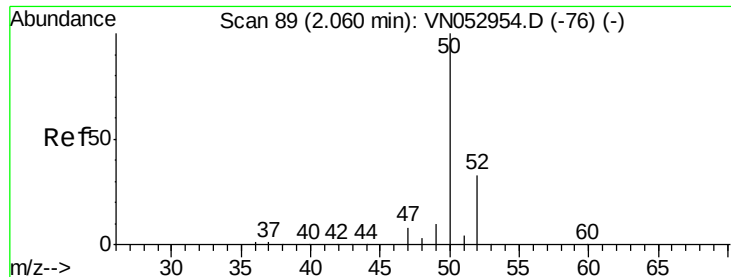
87 32.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 46.423 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 656617

Ion Ratio Lower Upper

50 100

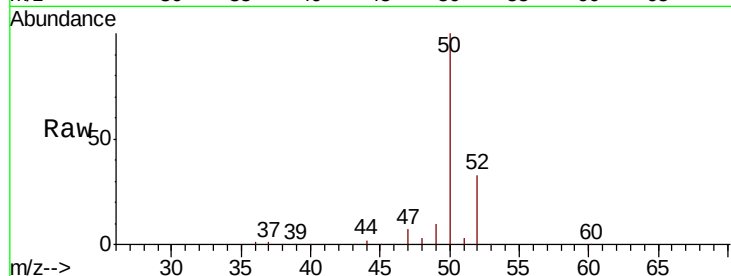
52 33.1 26.2 39.4

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

400000

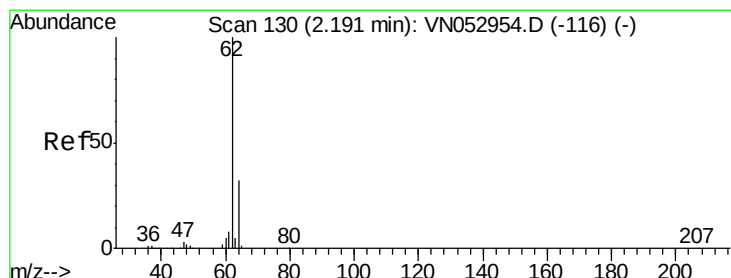
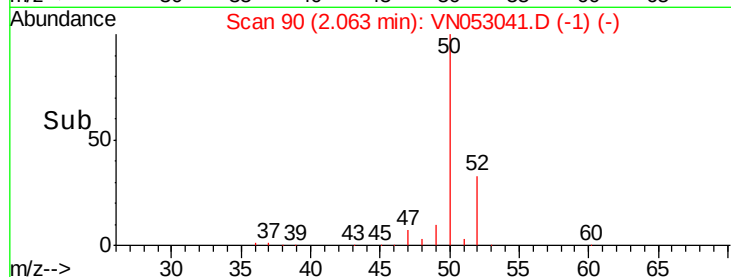
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 47.429 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053041.D

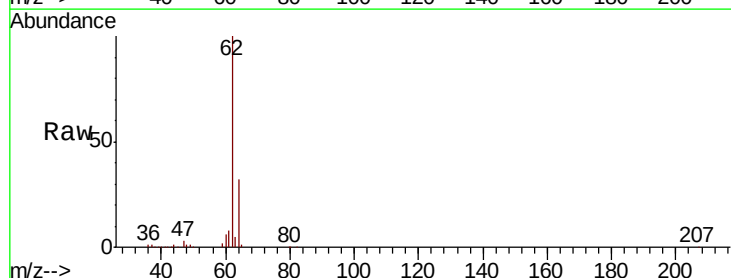
Acq: 20 Dec 2018 5:30

Tgt Ion: 62 Resp: 679417

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

400000

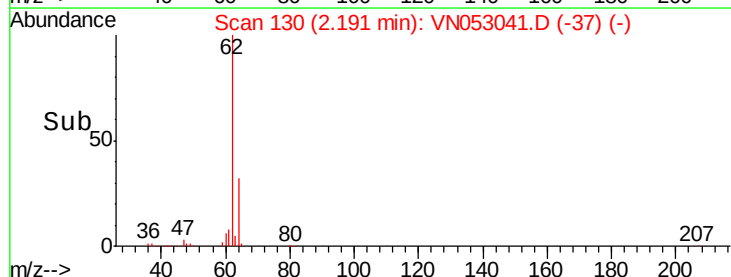
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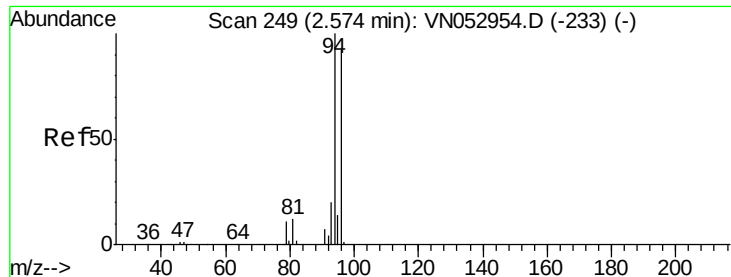
200000

100000

0

Time-->





#5

Bromomethane

Concen: 44.275 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

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Tot Ion: 94 Resp: 439419

Ion Ratio Lower Upper

94 100

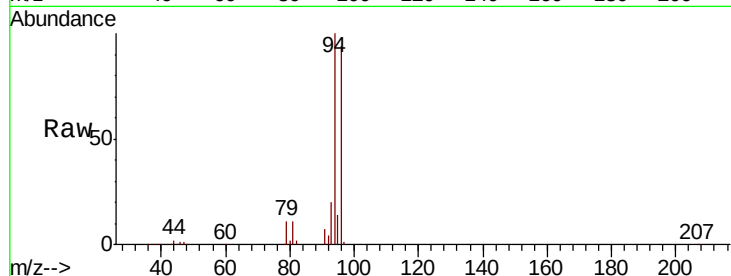
96 93.5 75.0 112.4

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

250000

200000

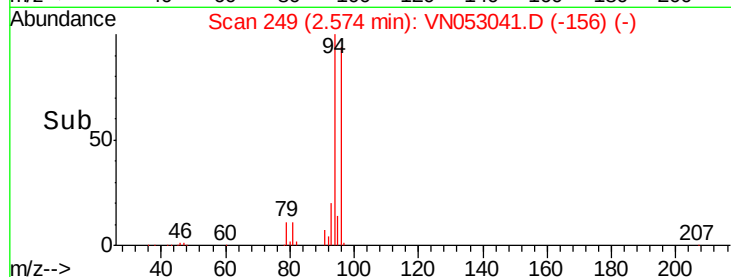
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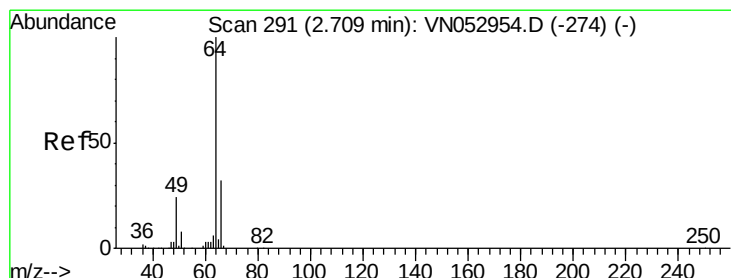
50000

0

Time-->



Time-->



#6

Chloroethane

Concen: 46.107 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN053041.D

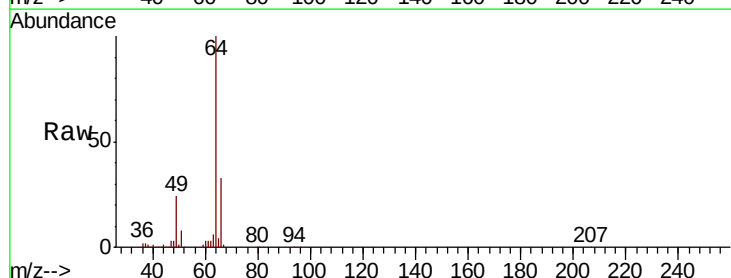
Acq: 20 Dec 2018 5:30

Tgt Ion: 64 Resp: 391165

Ion Ratio Lower Upper

64 100

66 32.6 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

200000

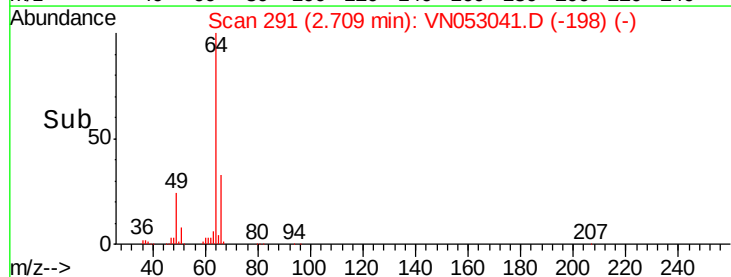
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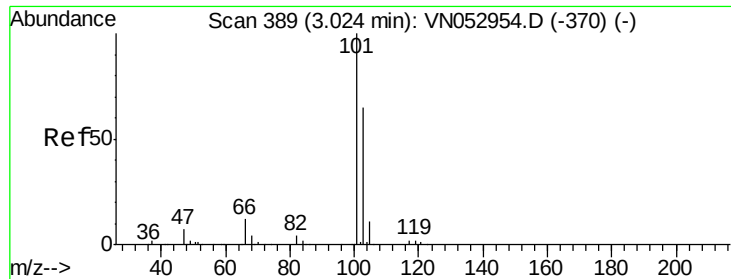
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0

Time-->



Time-->



#7

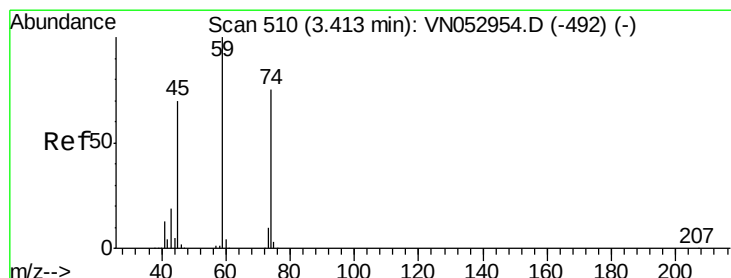
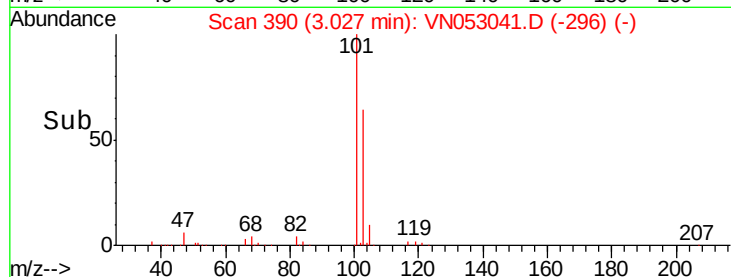
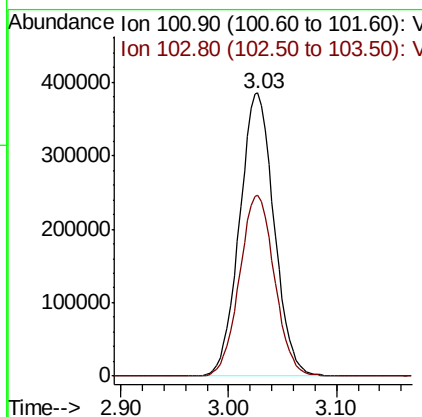
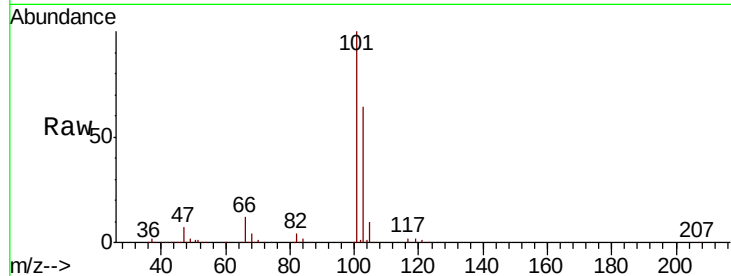
Trichlorofluoromethane
 Concen: 48.038 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		857241		
103	64.1	51.8	77.6		

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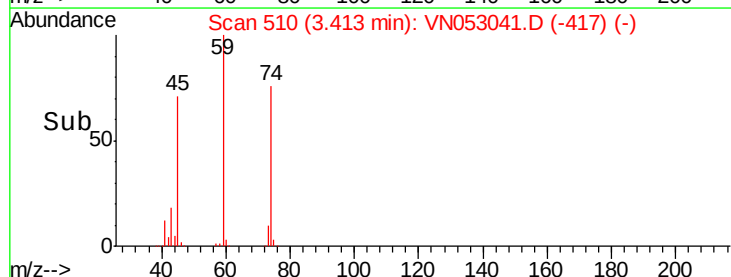
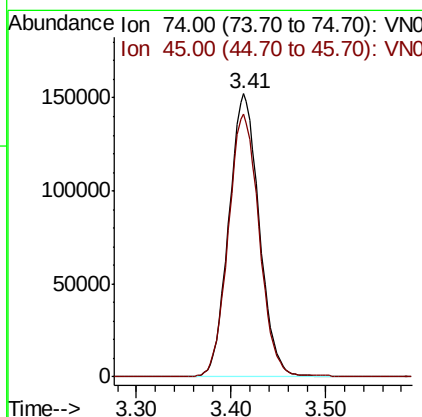
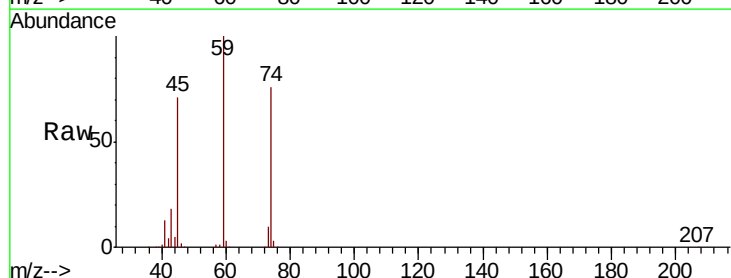
MMDadoda
 12/20/2018 9:33:40 AM

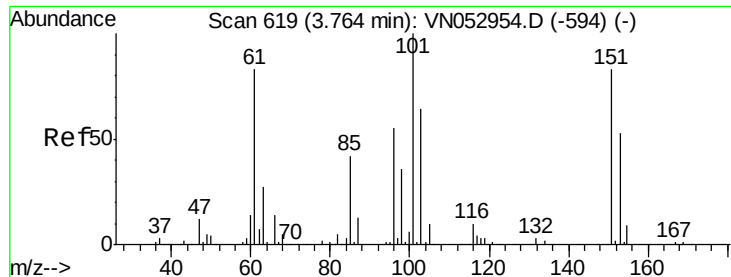


#8

Diethyl Ether
 Concen: 50.553 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		340334		
45	93.8	49.4	148.0		





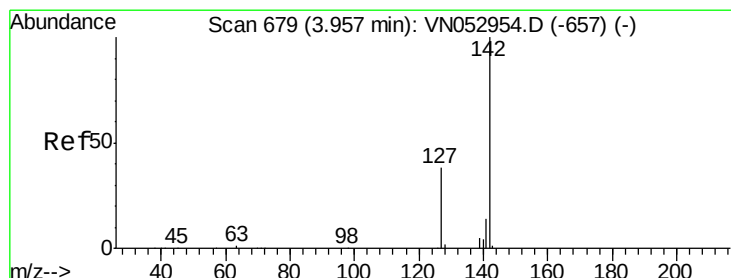
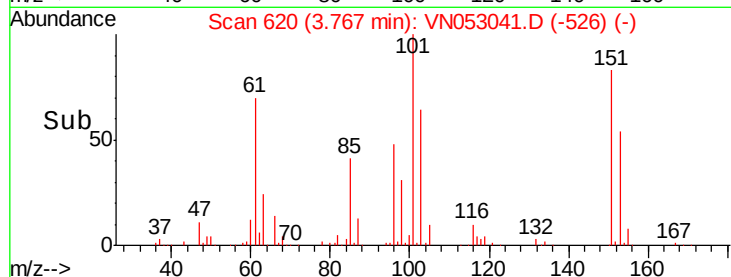
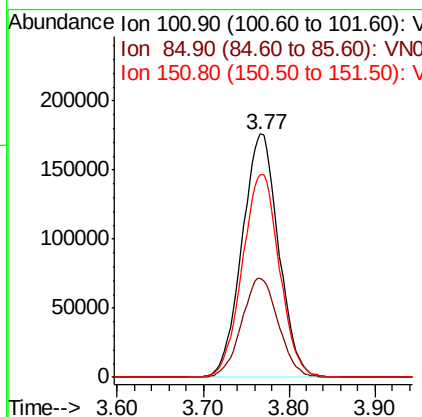
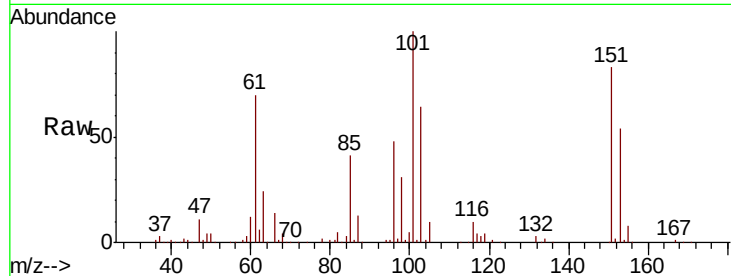
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 45.770 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
101	100	520770		
85	41.0		33.6	50.4
151	84.7		65.5	98.3

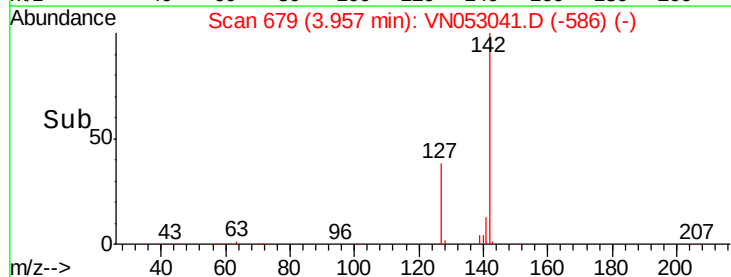
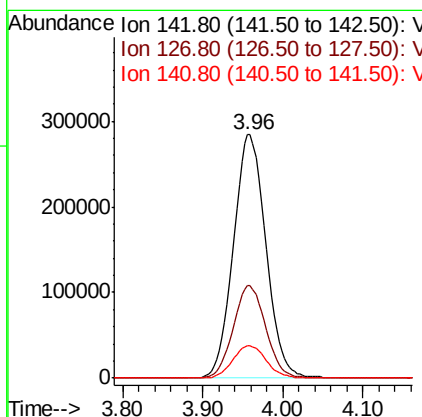
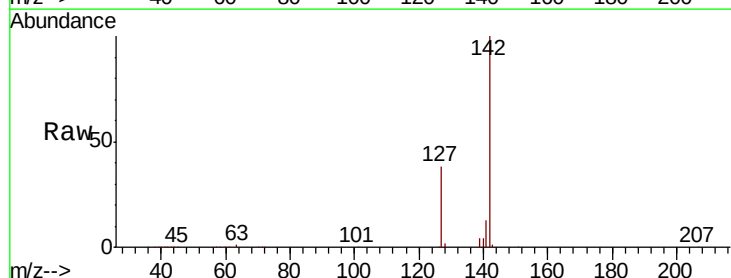
Manual Integrations
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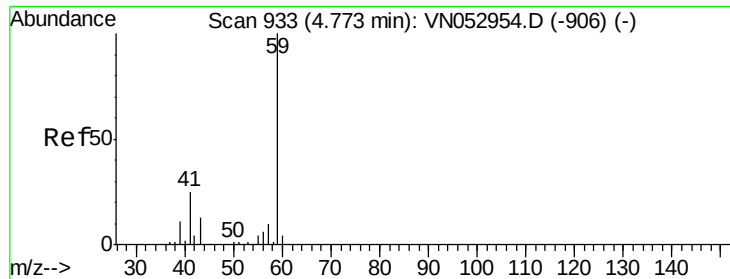
MMDadoda
 12/20/2018 9:33:40 AM



#10
 Methyl Iodide
 Concen: 48.949 ug/l
 RT: 3.96 min Scan# 679
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	782118		
127	38.1		31.0	46.6
141	13.7		11.2	16.8





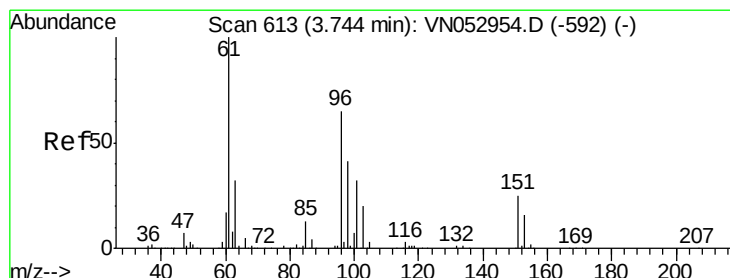
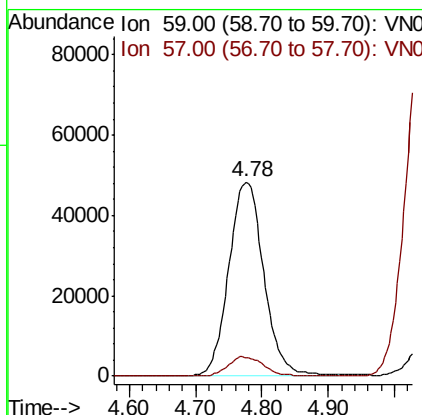
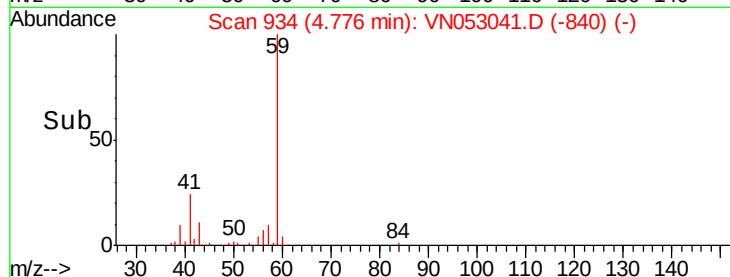
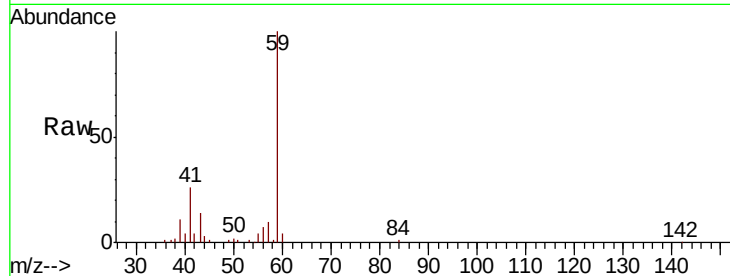
#11
Tert butyl alcohol
Concen: 248.901 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 59 Resp: 177745
Ion Ratio Lower Upper
59 100
57 10.0 7.7 11.5

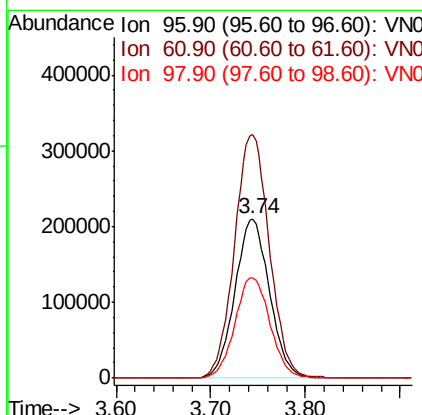
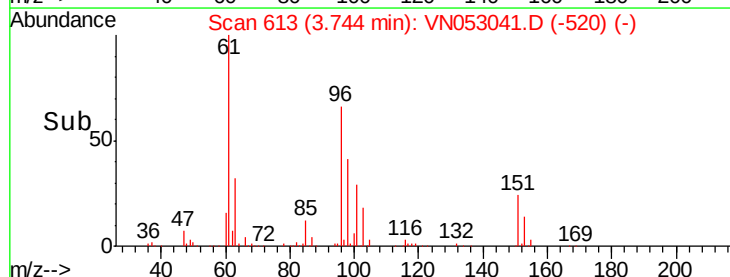
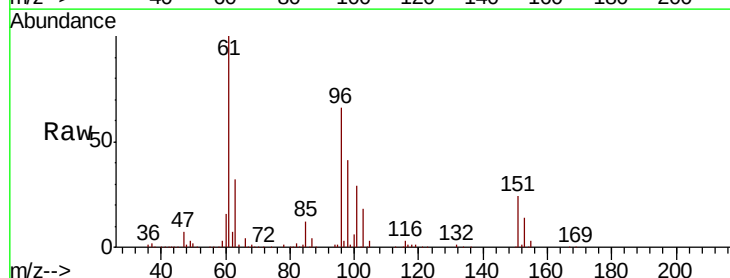
Manual Integrations
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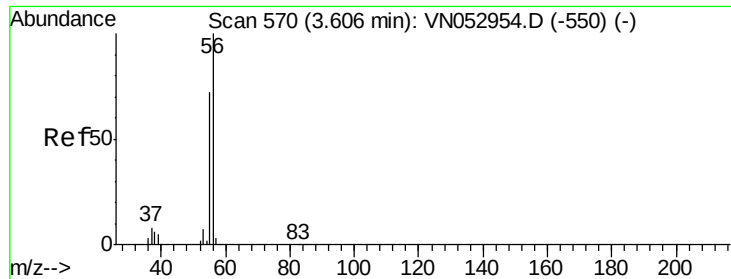
MMDadoda
12/20/2018 9:33:40 AM



#12
1,1-Dichloroethene
Concen: 48.534 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion: 96 Resp: 533510
Ion Ratio Lower Upper
96 100
61 152.6 125.6 188.4
98 62.8 50.6 75.8





#13

Acrolein

Concen: 291.410 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 188694

Ion Ratio Lower Upper

56 100

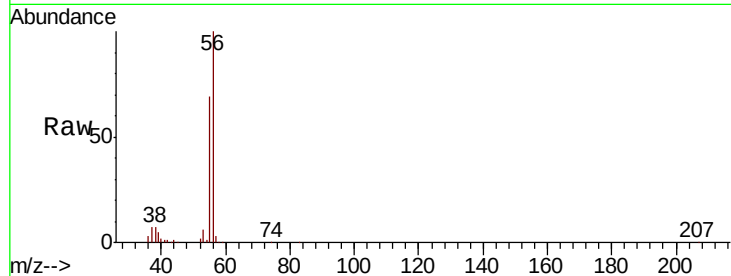
55 69.5 56.6 85.0

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Abundance Ion 56.00 (55.70 to 56.70): VN053041.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN053041.D (-477) (-)

80000

60000

40000

20000

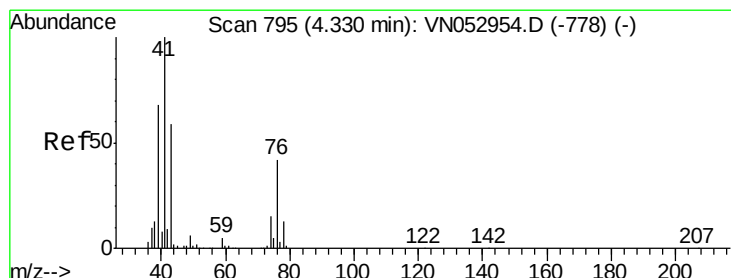
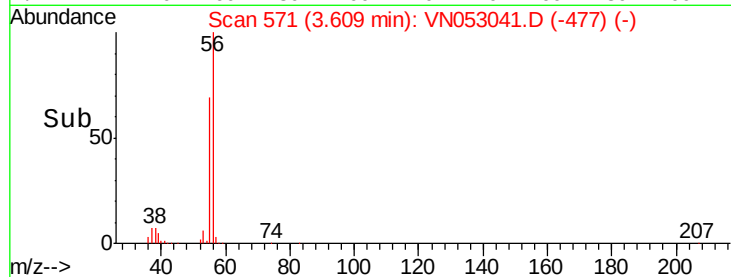
0

3.50

3.60

3.70

Time-->



#14

Allyl chloride

Concen: 47.614 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

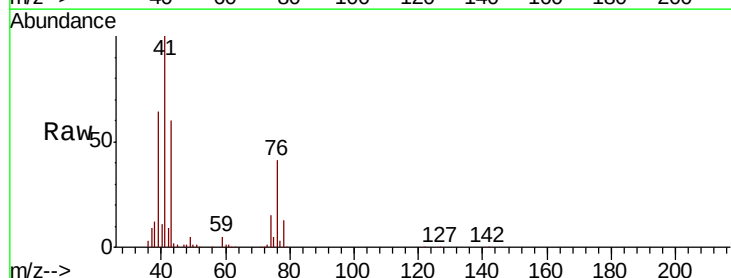
Tgt Ion: 41 Resp: 810715

Ion Ratio Lower Upper

41 100

39 64.6 54.1 81.1

76 39.5 30.3 45.5



Abundance Ion 41.00 (40.70 to 41.70): VN053041.D (-702) (-)

Ion 39.00 (38.70 to 39.70): VN053041.D (-702) (-)

Ion 75.90 (75.60 to 76.60): VN053041.D (-702) (-)

300000

200000

100000

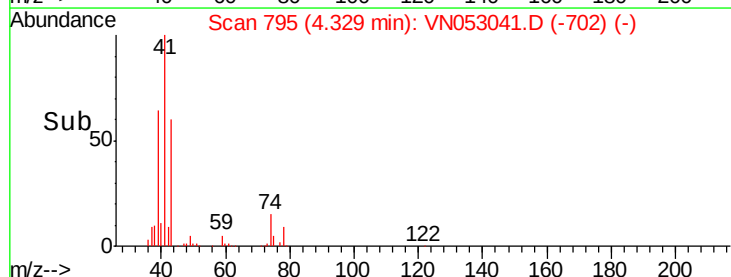
0

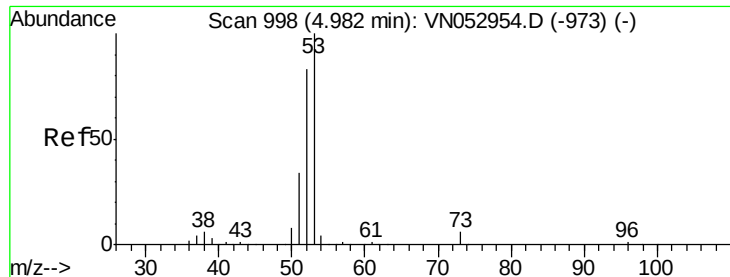
4.20

4.30

4.40

Time-->





#15

Acrylonitrile

Concen: 246.248 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

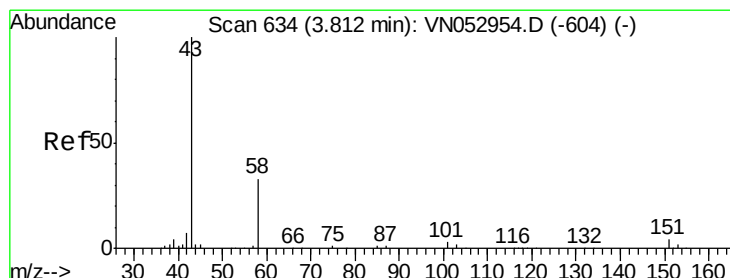
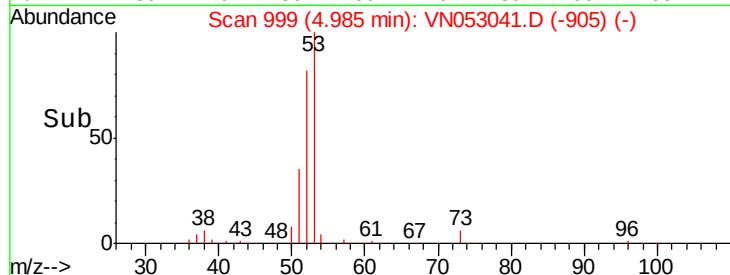
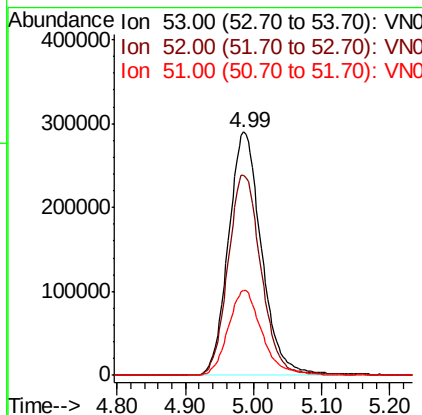
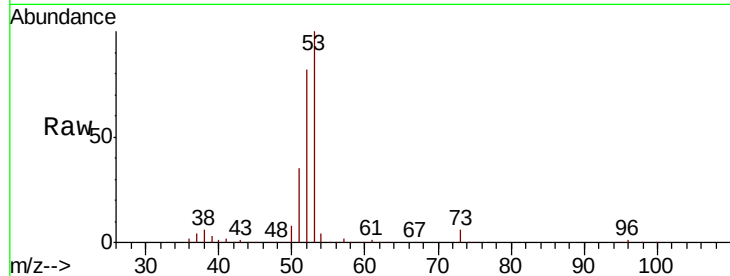
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	976935
Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.1	97.7
51	35.6	28.1	42.1

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#16

Acetone

Concen: 267.574 ug/l

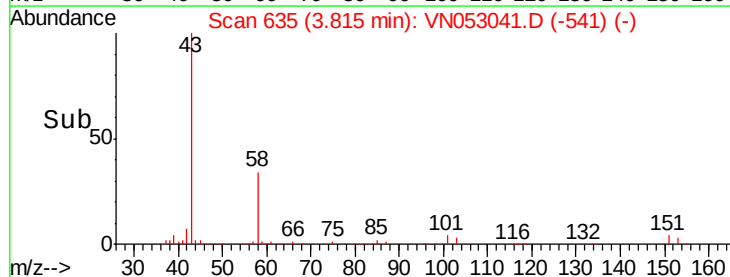
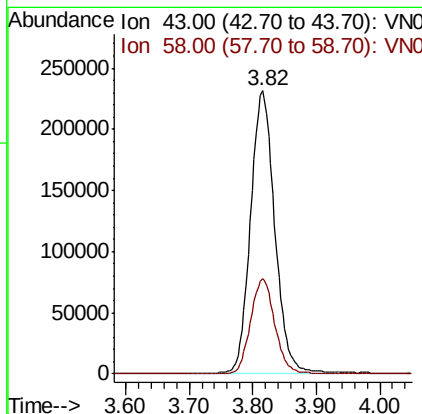
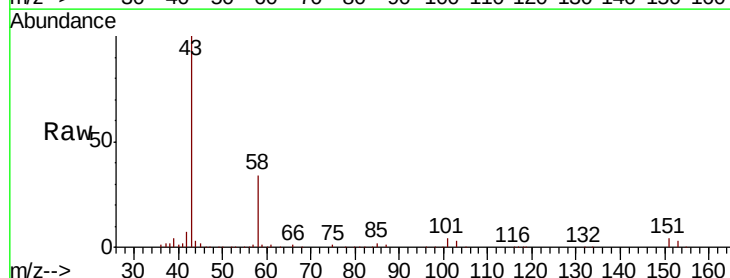
RT: 3.82 min Scan# 635

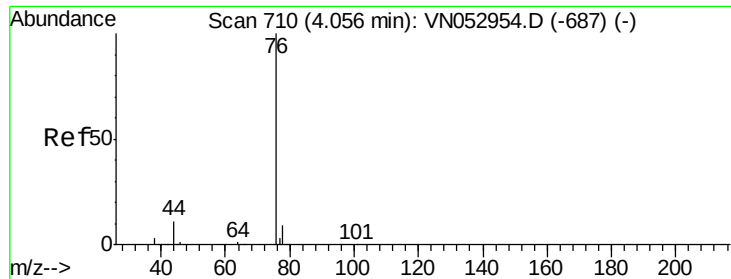
Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Tgt Ion:	43	Resp:	614013
Ion	Ratio	Lower	Upper
43	100		
58	33.6	25.4	38.0





#17

Carbon Disulfide

Concen: 42.580 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 1526431

Ion Ratio Lower Upper

76 100

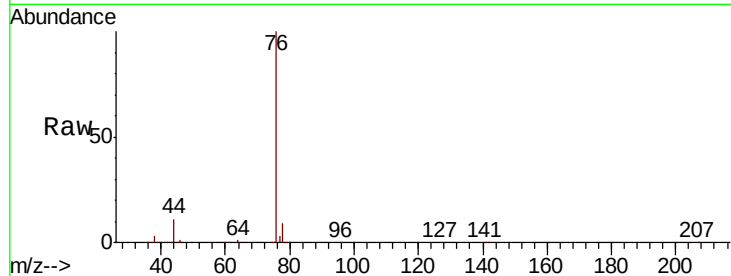
78 8.9 7.1 10.7

Manual Integrations

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12/20/2018 9:33:40 AM



Abundance Ion 75.90 (75.60 to 76.60): VN052954.D (-687) (-)

Ion 77.90 (77.60 to 78.60): VN052954.D (-687) (-)

4.06

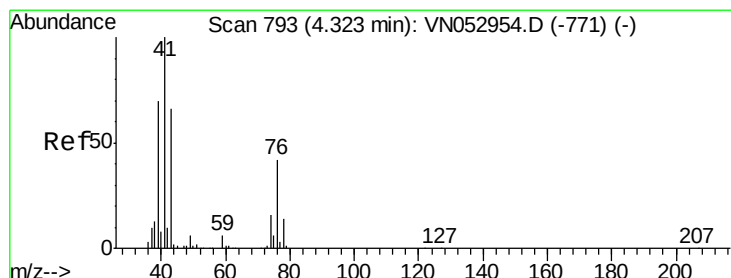
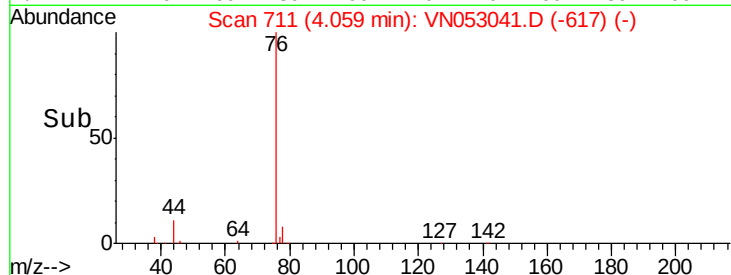
600000

400000

200000

0

Time-->



#18

Methyl Acetate

Concen: 48.608 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053041.D

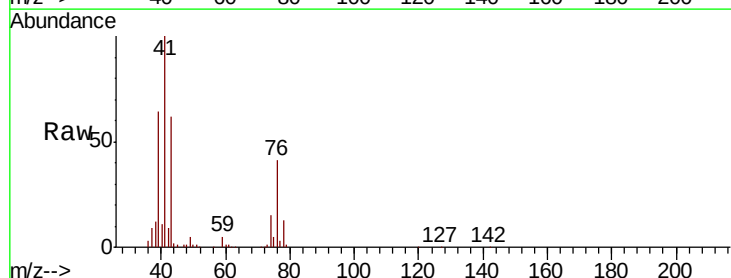
Acq: 20 Dec 2018 5:30

Tgt Ion: 43 Resp: 505969

Ion Ratio Lower Upper

43 100

74 24.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-771) (-)

Ion 74.00 (73.70 to 74.70): VN052954.D (-771) (-)

4.33

200000

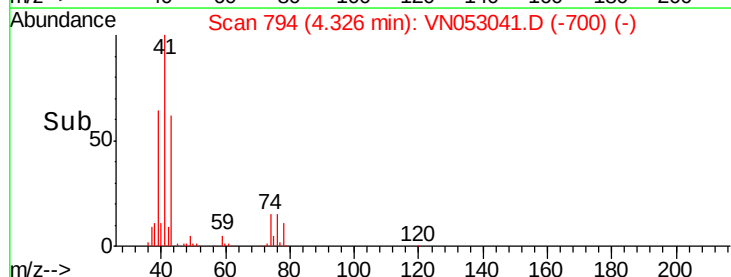
150000

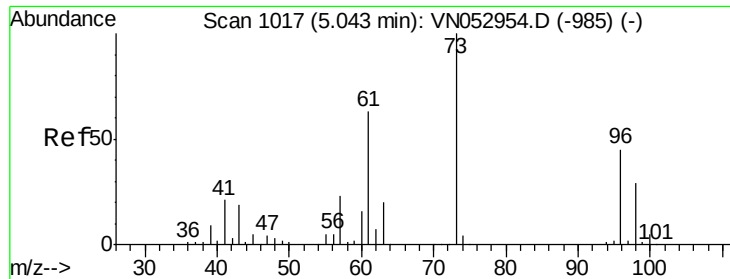
100000

50000

0

Time-->





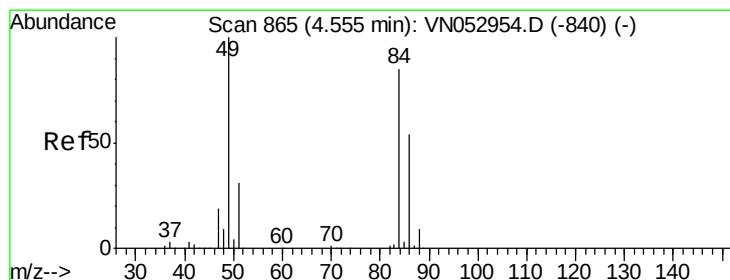
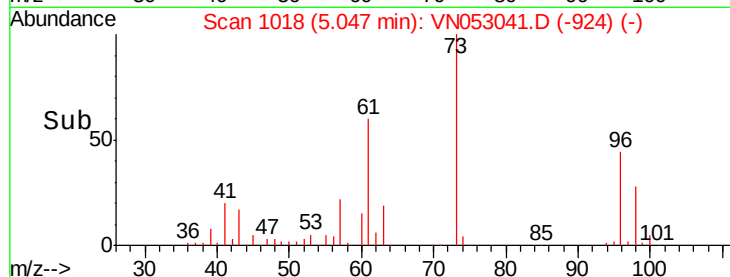
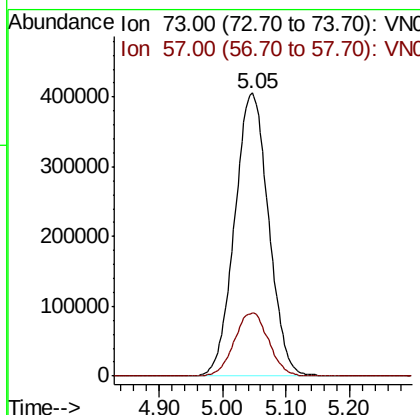
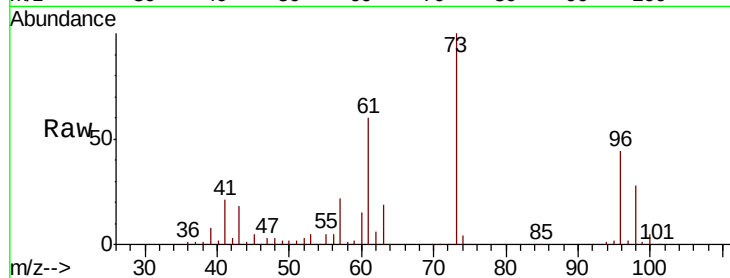
#19
Methyl tert-butyl Ether
Concen: 51.189 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 1505803
Ion Ratio Lower Upper
73 100
57 22.4 18.4 27.6

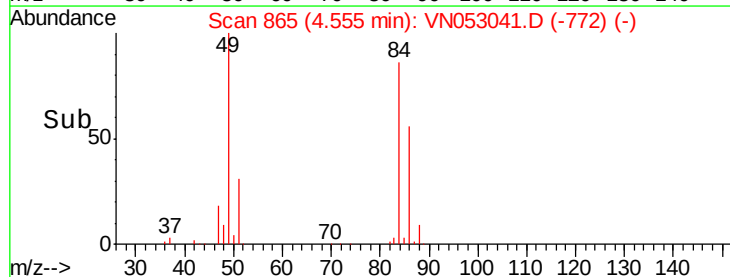
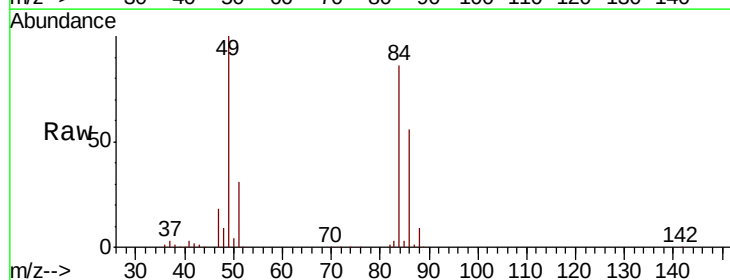
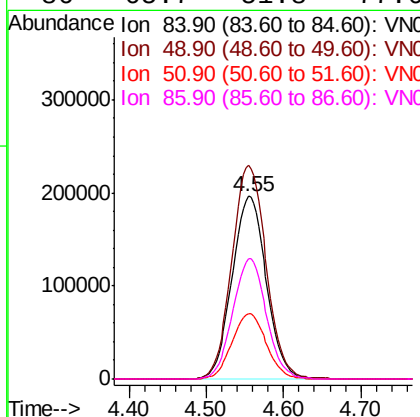
Manual Integrations
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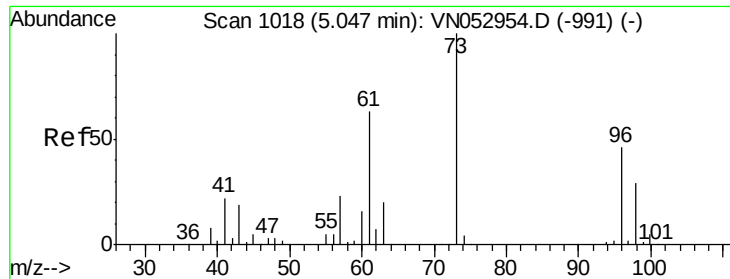
MMDadoda
12/20/2018 9:33:40 AM



#20
Methylene Chloride
Concen: 48.185 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion: 84 Resp: 603153
Ion Ratio Lower Upper
84 100
49 117.0 96.8 145.2
51 35.9 29.9 44.9
86 65.7 51.8 77.6





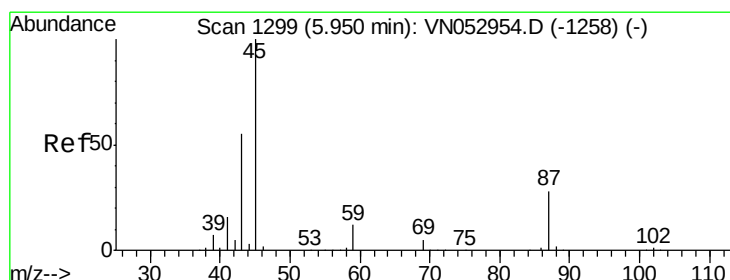
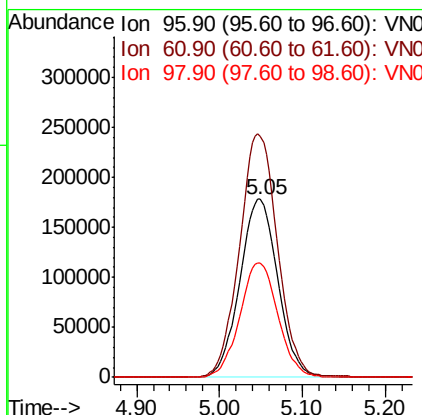
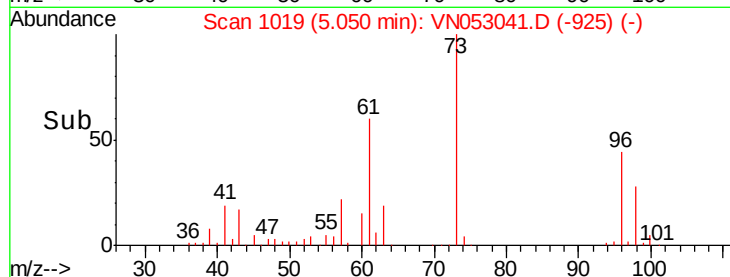
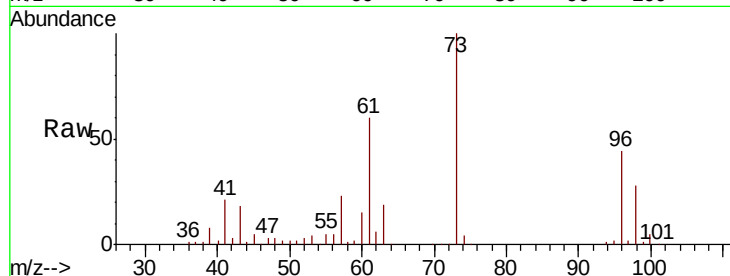
#21
trans-1,2-Dichloroethene
Concen: 48.020 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.6	110.8	166.2
98	64.1	51.4	77.2

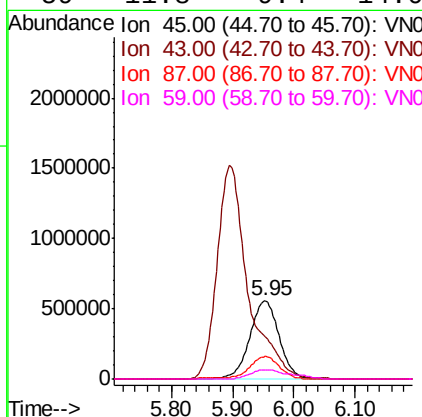
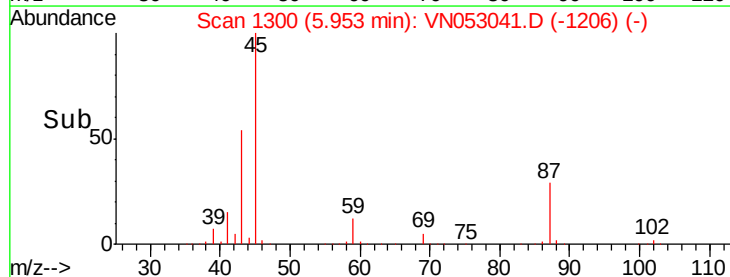
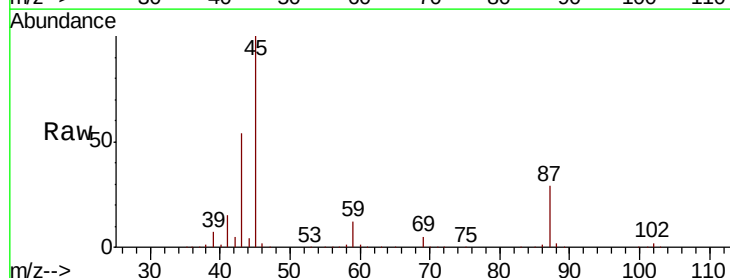
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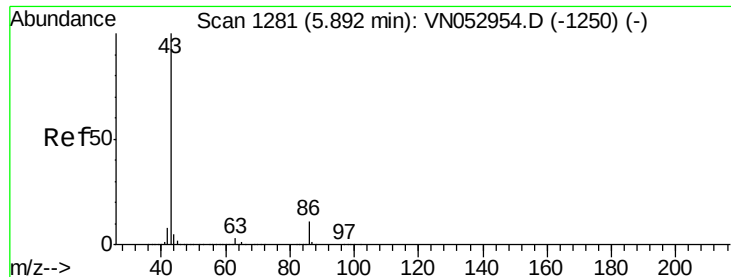
MMDadoda
12/20/2018 9:33:40 AM



#22
Diisopropyl ether
Concen: 51.098 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
45	100		
43	53.2	45.5	68.3
87	28.6	22.0	33.0
59	11.8	9.4	14.0





#23

Vinyl Acetate

Concen: 255.852 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 5347052

Ion Ratio Lower Upper

43 100

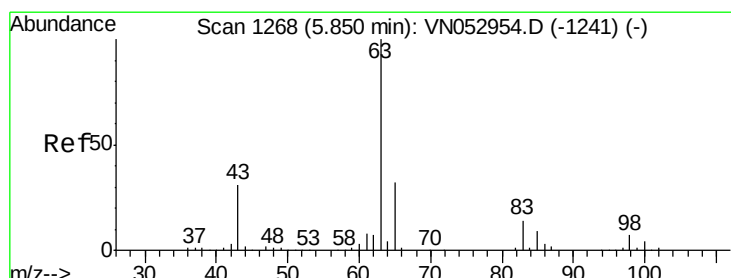
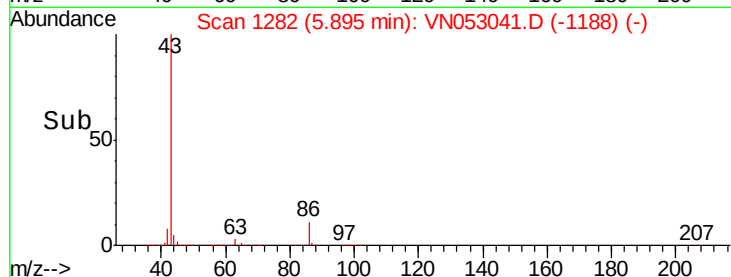
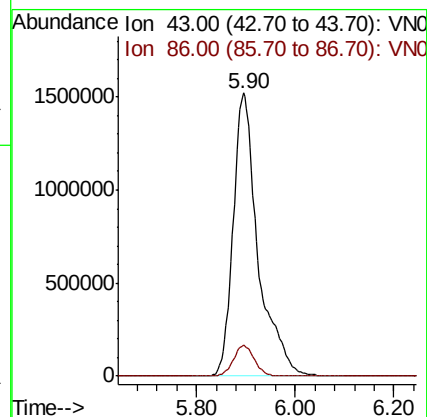
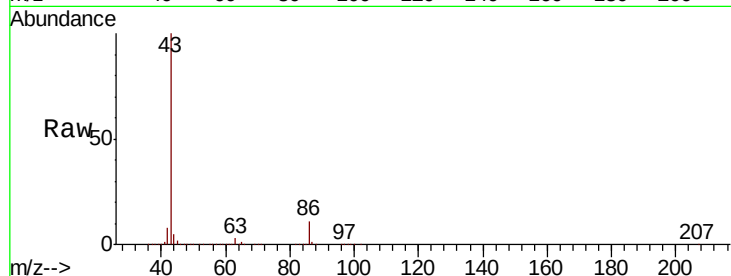
86 10.9 8.1 12.1

Manual Integrations

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12/20/2018 9:33:40 AM



#24

1,1-Dichloroethane

Concen: 49.577 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

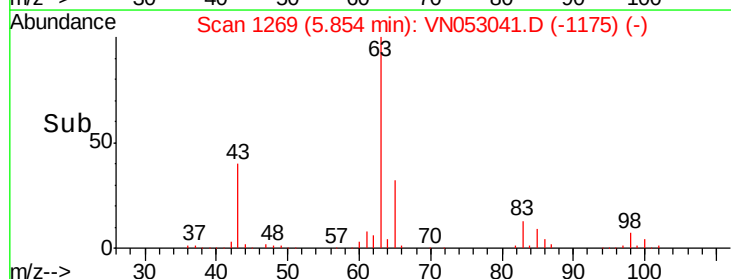
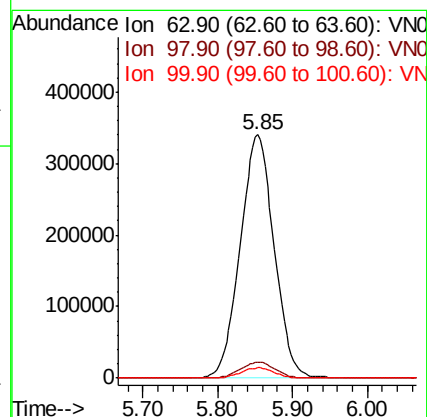
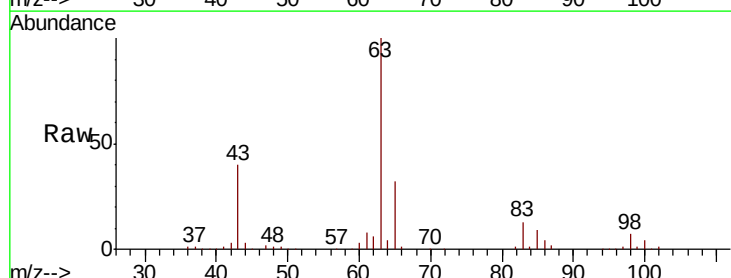
Tgt Ion: 63 Resp: 1070706

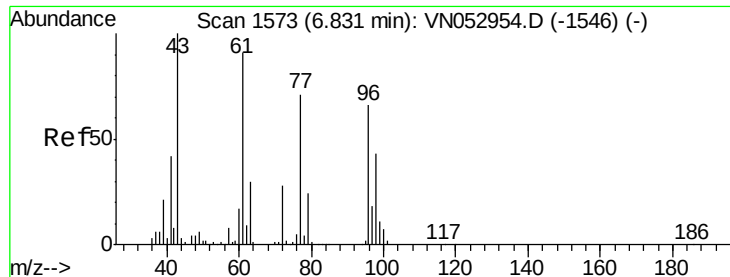
Ion Ratio Lower Upper

63 100

98 6.6 3.1 9.4

100 4.2 2.0 5.8





#25

2-Butanone

Concen: 264.224 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1017565

Ion Ratio Lower Upper

43 100

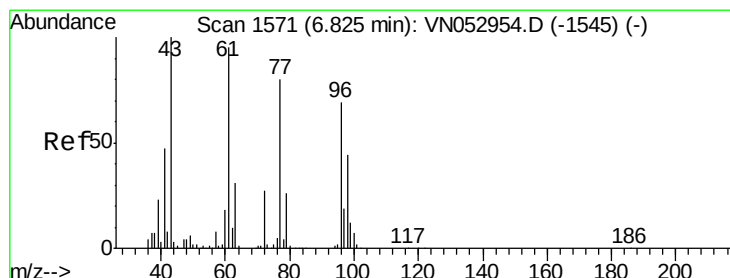
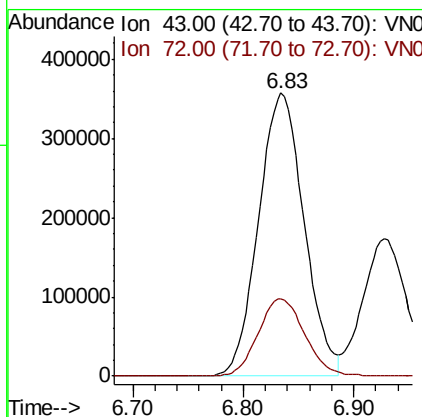
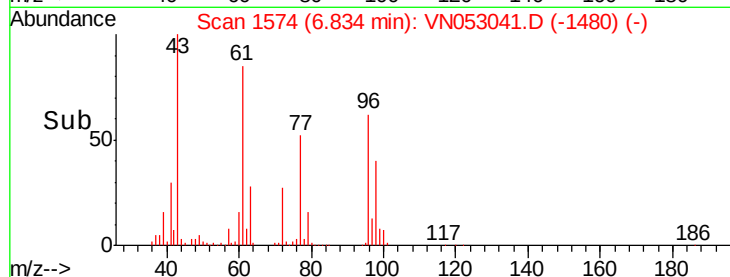
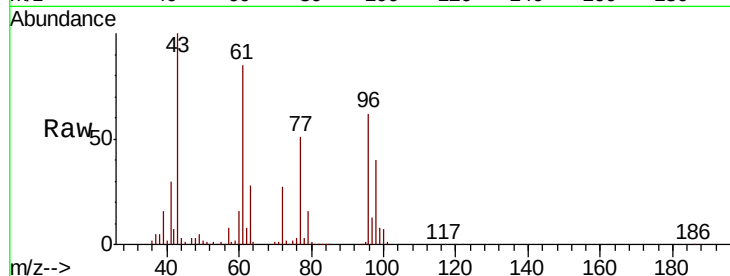
72 27.4 21.0 31.6

Manual Integrations

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MMDadoda

12/20/2018 9:33:40 AM



#26

2,2-Dichloropropane

Concen: 37.390 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053041.D

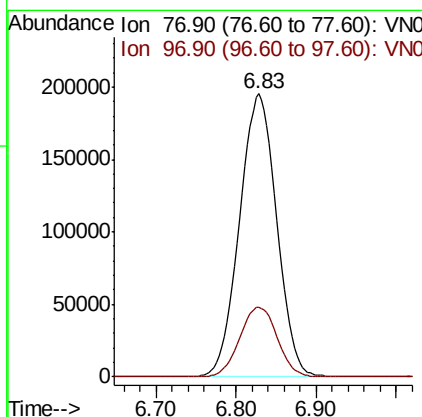
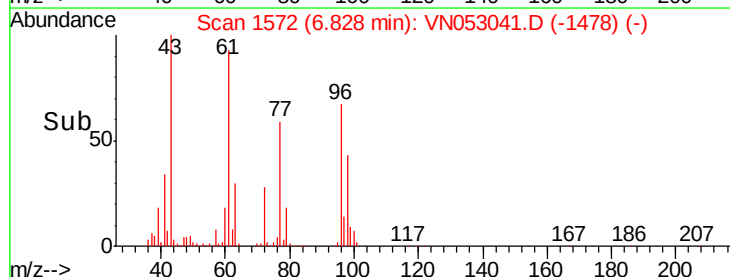
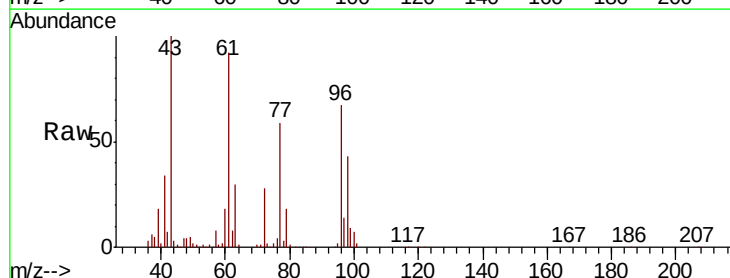
Acq: 20 Dec 2018 5:30

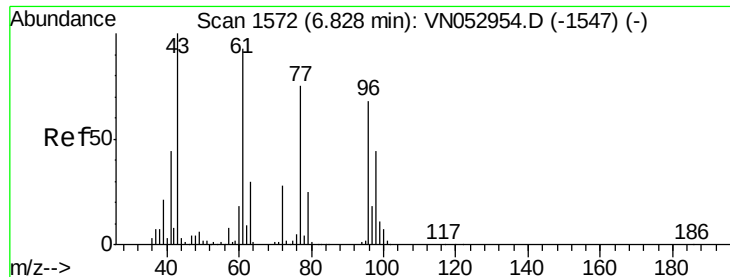
Tgt Ion: 77 Resp: 616412

Ion Ratio Lower Upper

77 100

97 24.9 11.9 35.9





#27

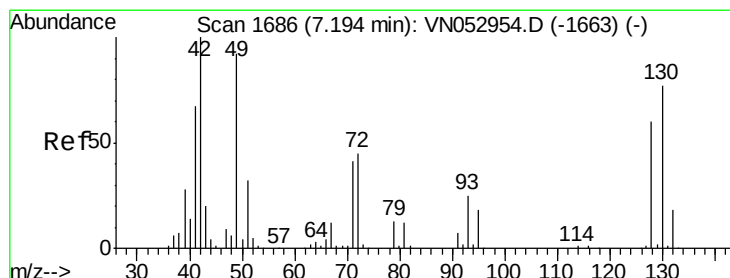
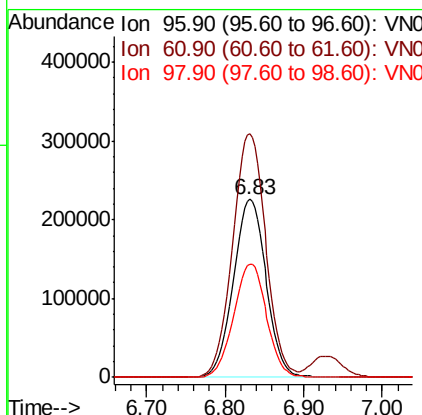
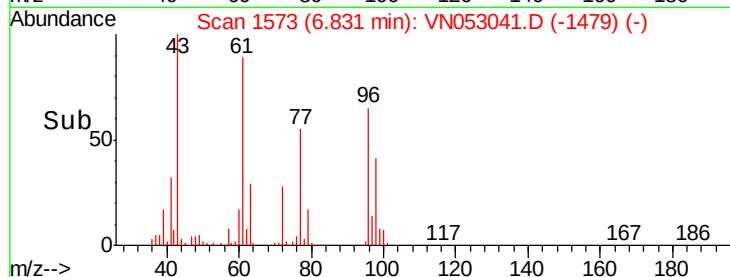
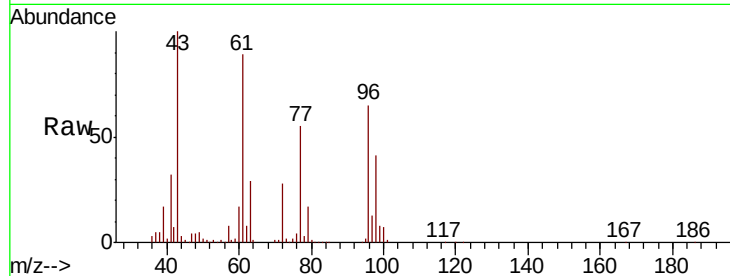
cis-1,2-Dichloroethene
 Concen: 49.317 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	659396		
61	138.2	0.0	284.2	
98	64.1	0.0	129.2	

Manual Integrations
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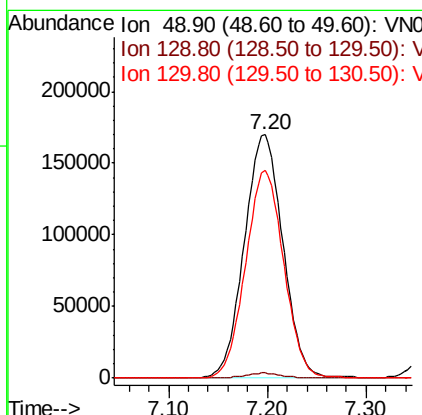
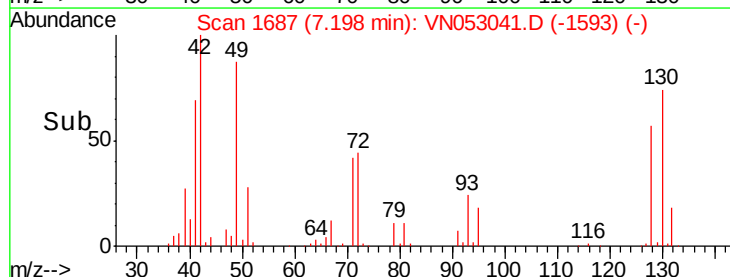
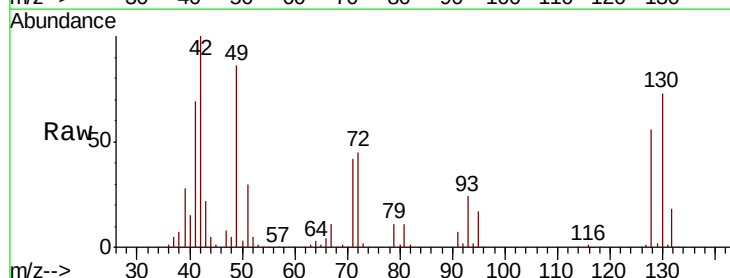
MMDadoda
 12/20/2018 9:33:40 AM

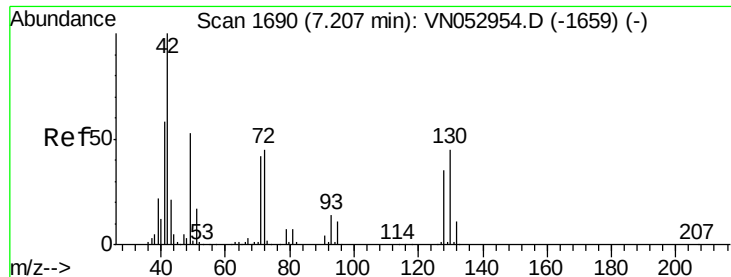


#28

Bromochloromethane
 Concen: 49.127 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	459747		
129	2.0	0.0	4.0	
130	84.6	63.3	94.9	





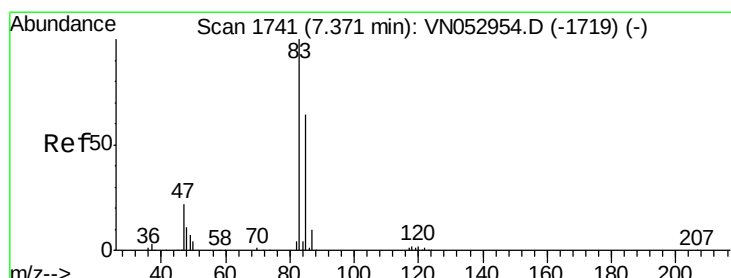
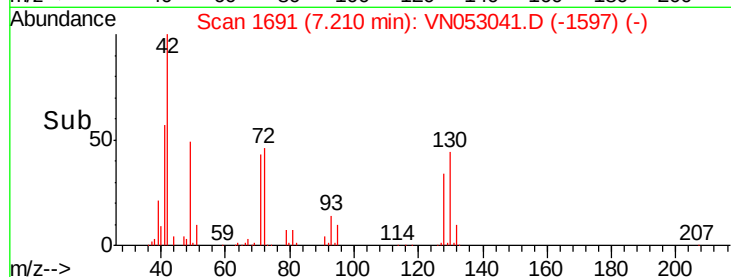
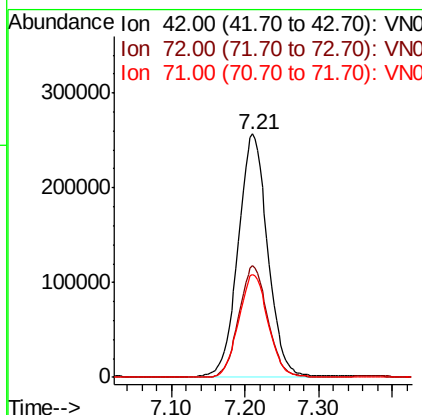
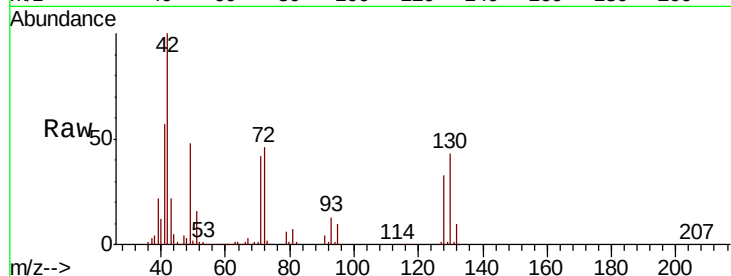
#29
Tetrahydrofuran
Concen: 249.350 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.8	34.7	52.1
71	42.4	32.3	48.5

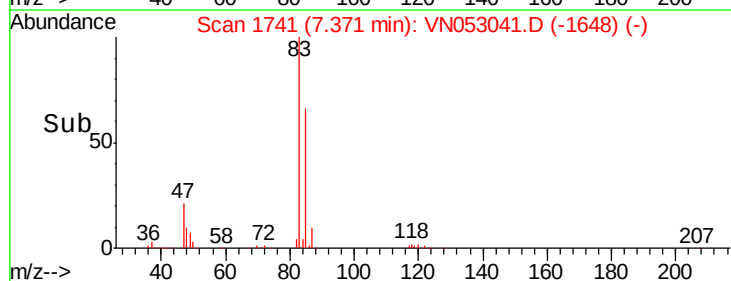
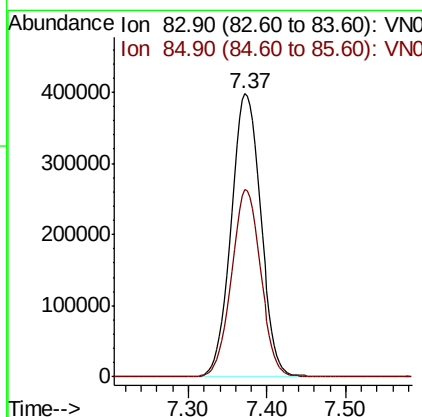
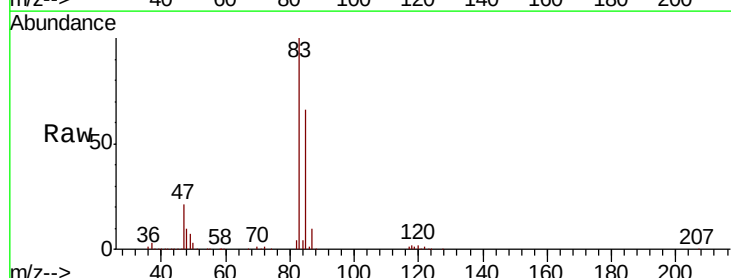
Manual Integrations
APPROVED

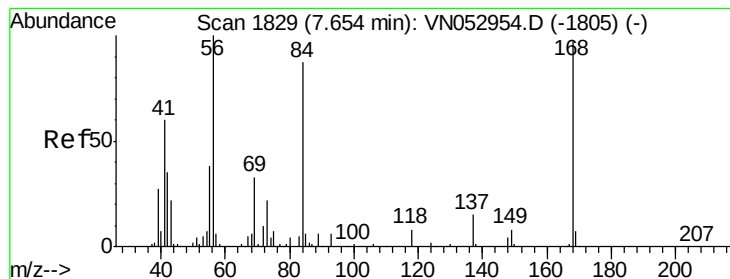
MMDadoda
12/20/2018 9:33:40 AM



#30
Chloroform
Concen: 49.376 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.1	78.1





#31

Cyclohexane

Concen: 48.210 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 977267

Ion Ratio Lower Upper

56 100

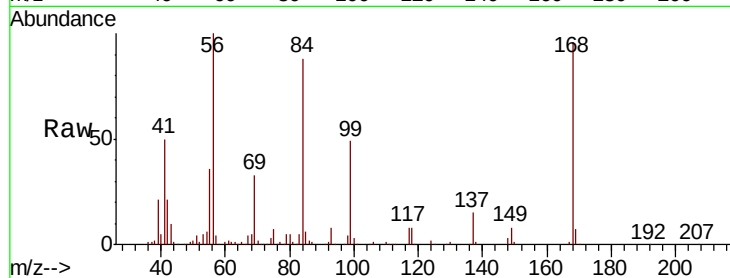
69 32.6 26.6 39.8

84 86.2 68.4 102.6

Manual Integrations
APPROVED

MMDadoda

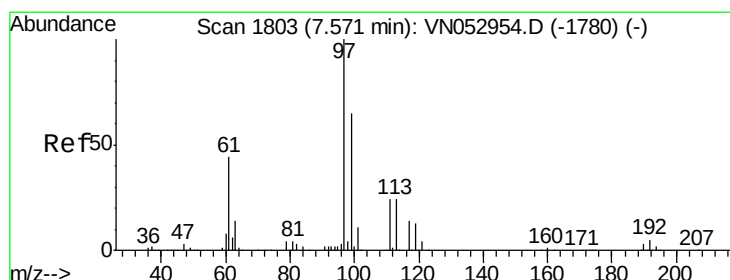
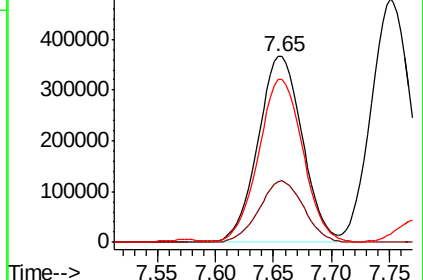
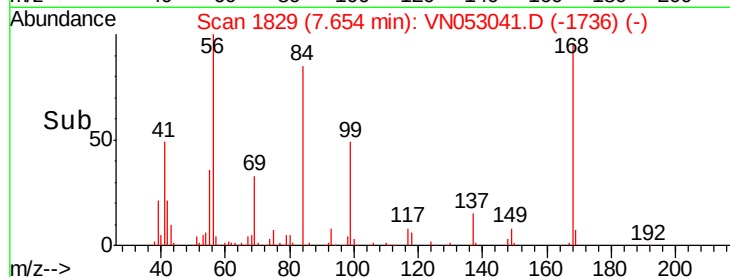
12/20/2018 9:33:40 AM



Abundance Ion 56.00 (55.70 to 56.70): VN053041.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN053041.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN053041.D (-1736) (-)



#32

1,1,1-Trichloroethane

Concen: 48.481 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

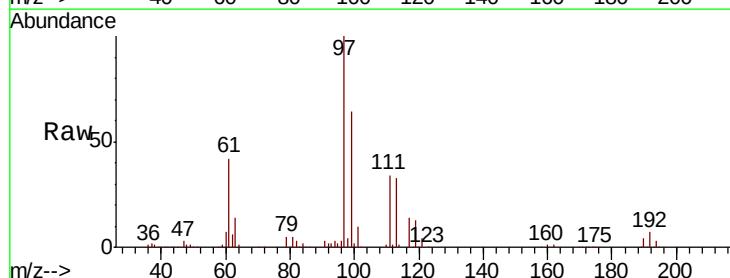
Tgt Ion: 97 Resp: 876200

Ion Ratio Lower Upper

97 100

99 64.6 51.1 76.7

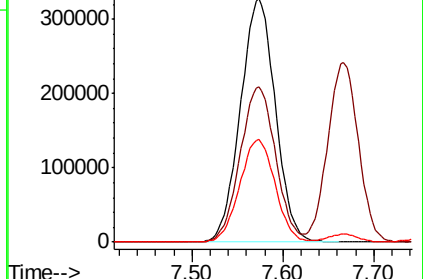
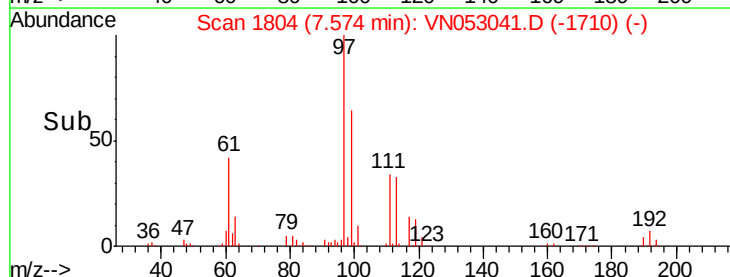
61 42.5 35.0 52.6

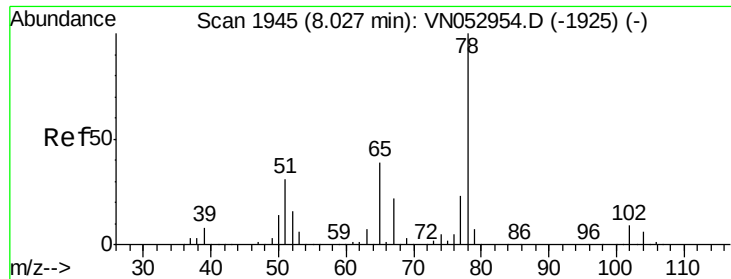


Abundance Ion 96.90 (96.60 to 97.60): VN053041.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN053041.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN053041.D (-1710) (-)





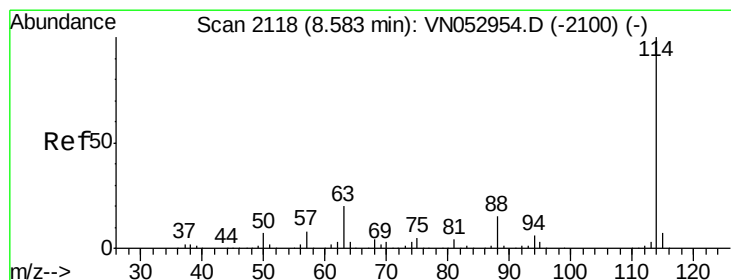
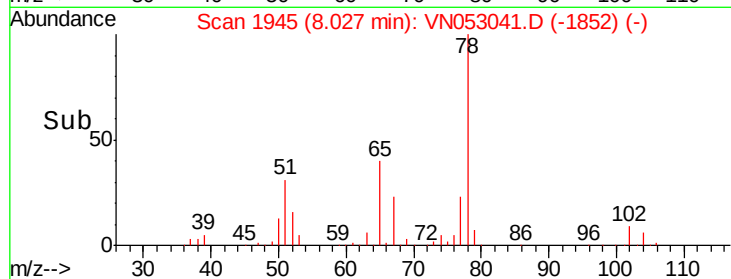
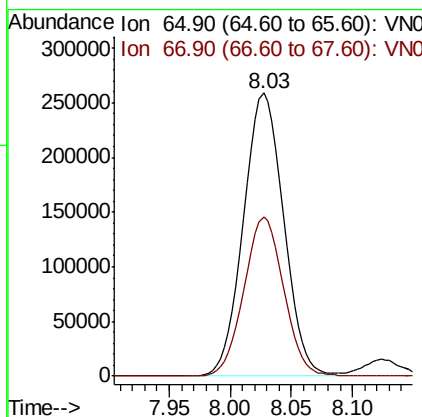
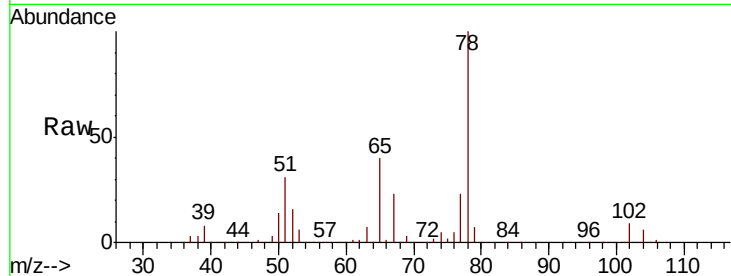
#33
 1,2-Dichloroethane-d4
 Concen: 48.481 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 65 Resp: 591884
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 110.4

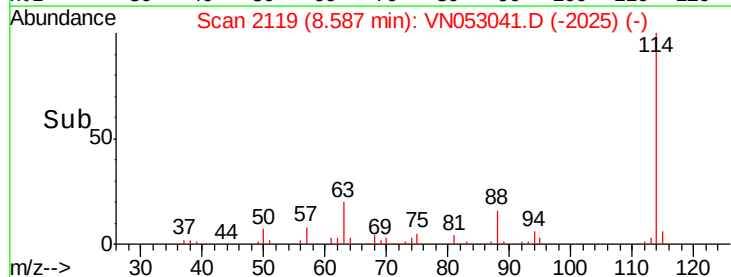
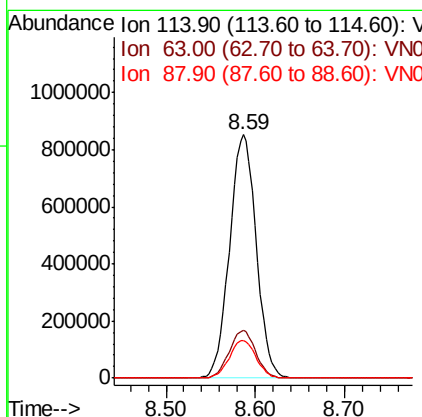
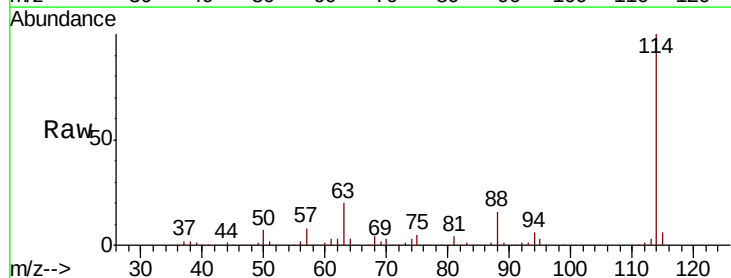
Manual Integrations
 APPROVED

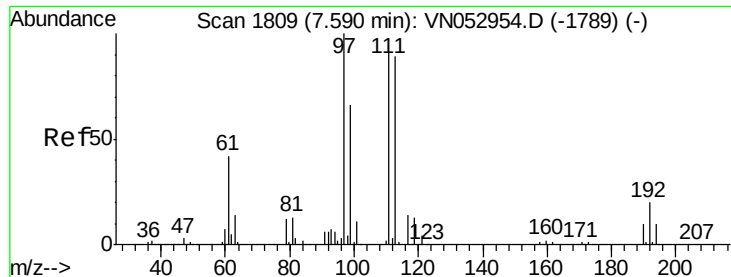
MMDadoda
 12/20/2018 9:33:40 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion: 114 Resp: 1763474
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.8
 88 15.7 0.0 31.0





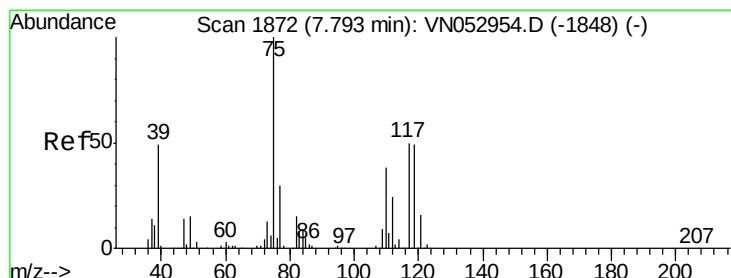
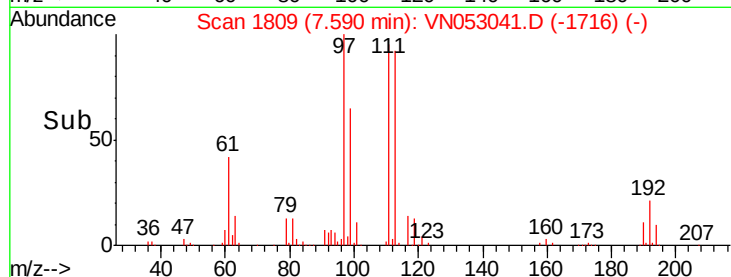
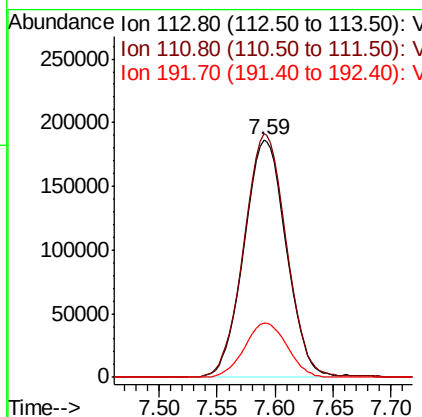
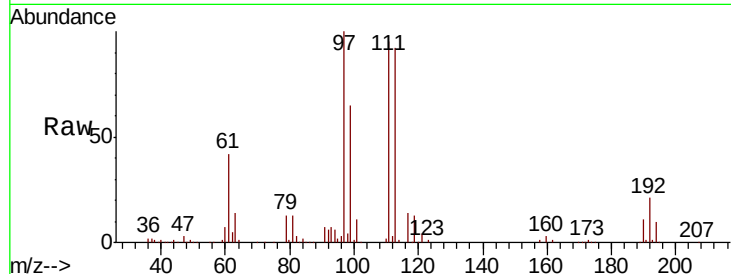
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	472800		
111	102.7	83.0	124.4	
192	23.2	17.5	26.3	

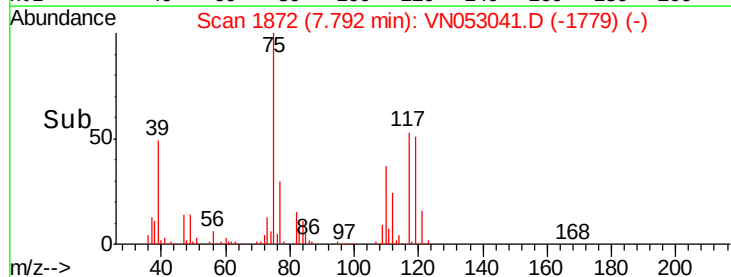
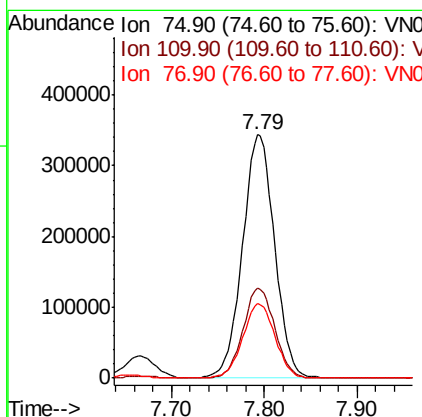
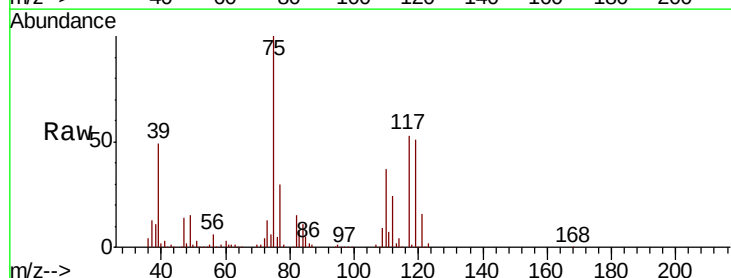
Manual Integrations
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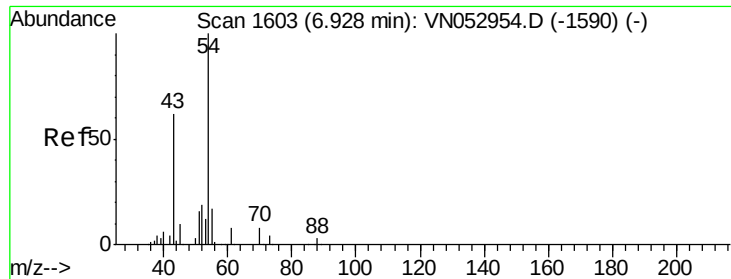
MMDadoda
 12/20/2018 9:33:40 AM



#36
 1,1-Dichloropropene
 Concen: 48.523 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	821308		
110	36.8	18.2	54.6	
77	30.9	24.9	37.3	





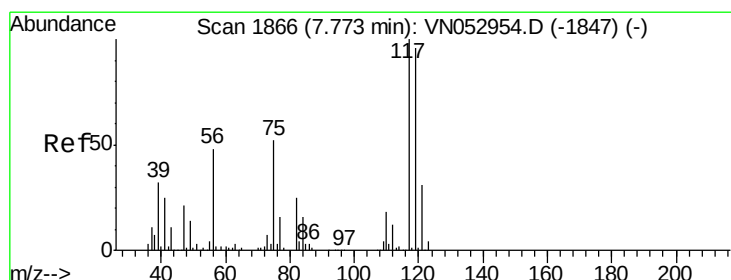
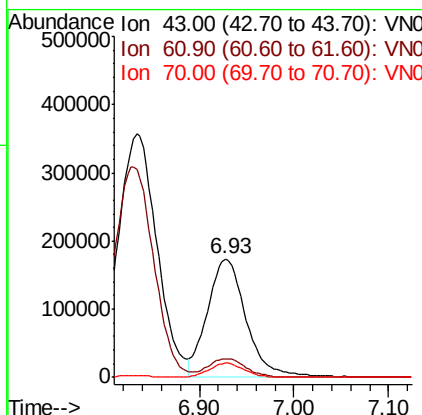
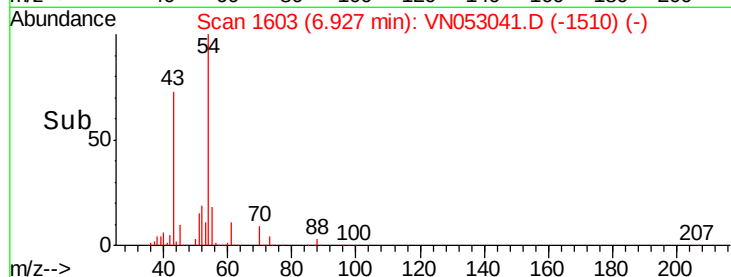
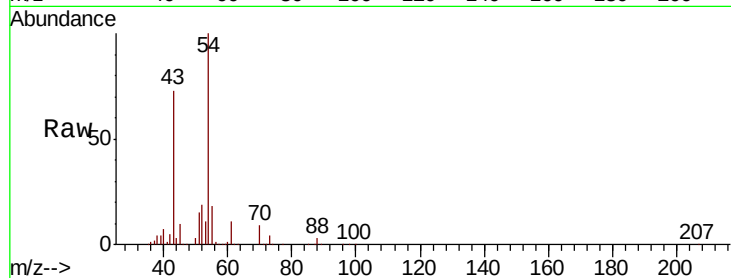
#37
Ethyl Acetate
Concen: 51.456 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.8	17.6
70	11.1	8.4	12.6

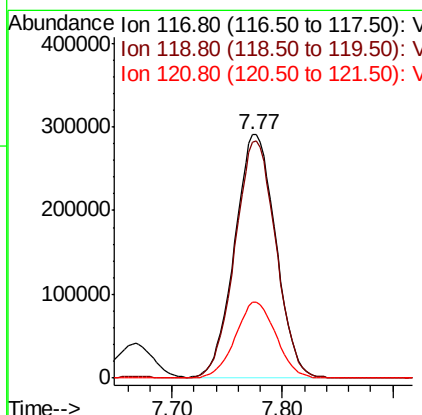
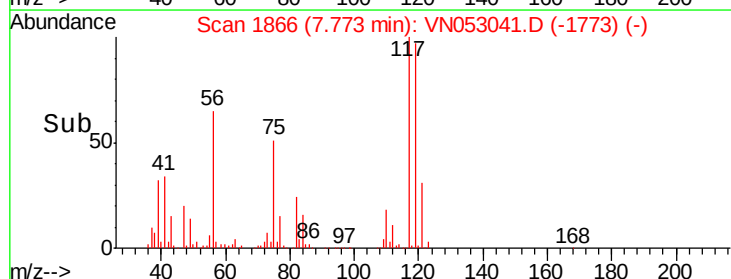
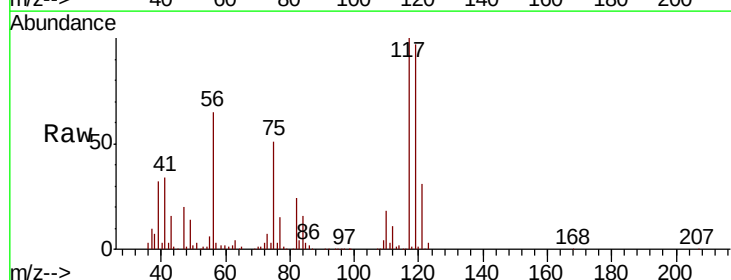
Manual Integrations
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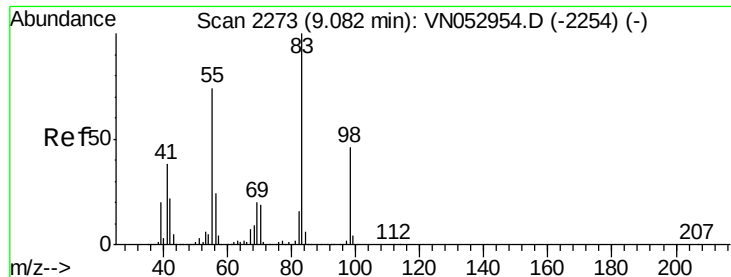
MMDadoda
12/20/2018 9:33:40 AM



#38
Carbon Tetrachloride
Concen: 48.125 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.1	115.7
121	31.1	24.9	37.3





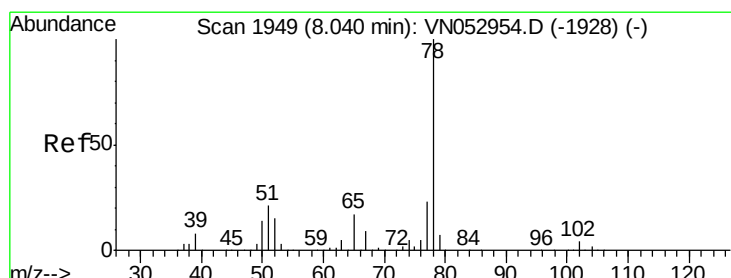
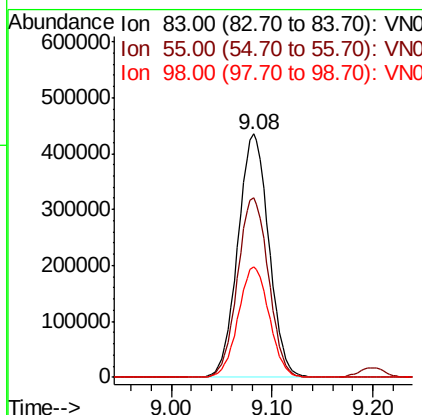
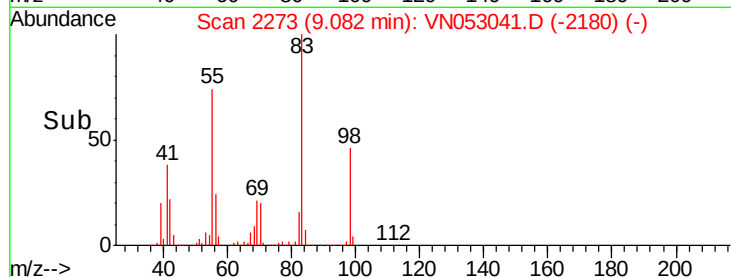
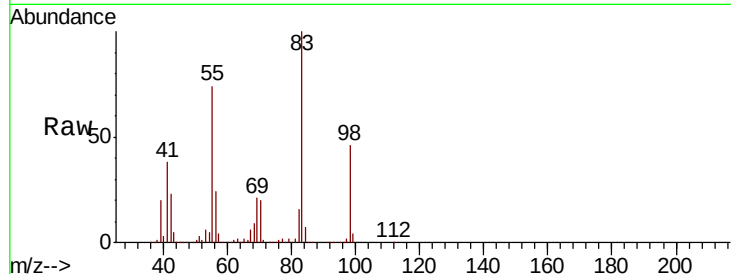
#39
Methylvlcyclohexane
Concen: 44.842 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.9	61.3	91.9
98	45.5	37.0	55.4

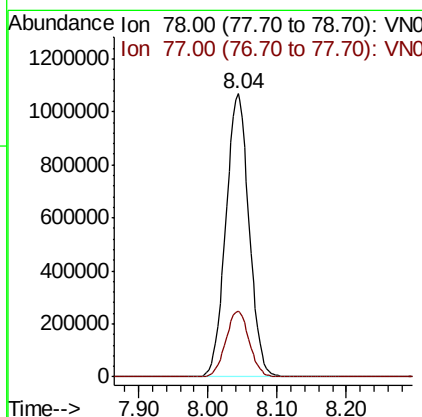
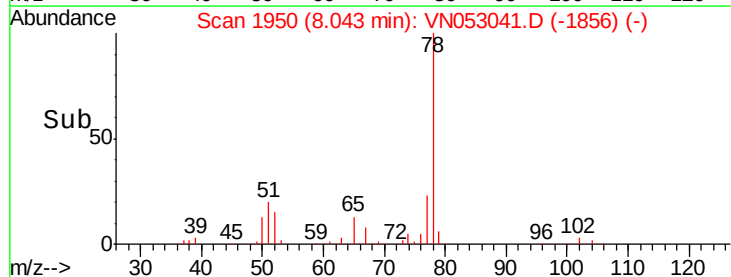
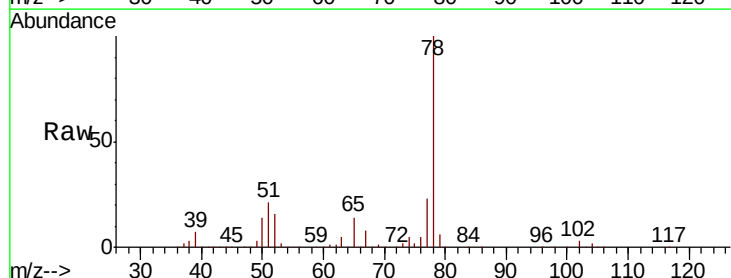
Manual Integrations
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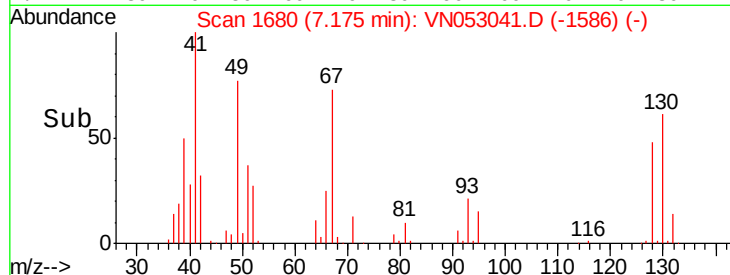
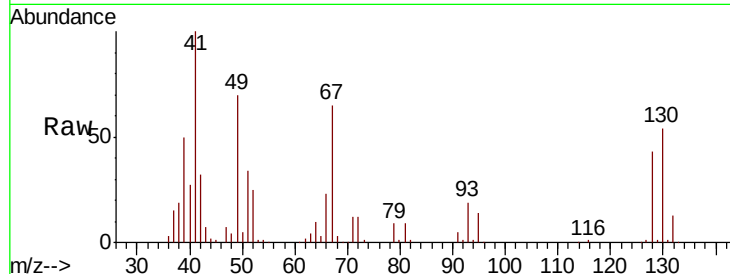
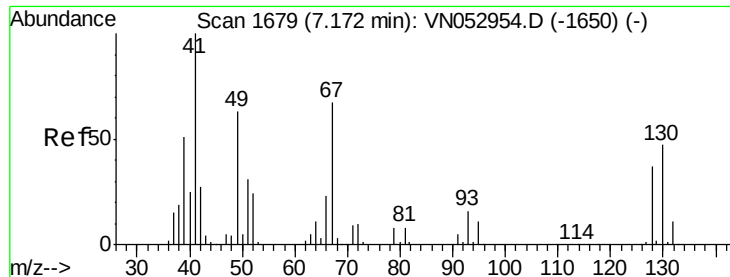
MMDadoda
12/20/2018 9:33:40 AM



#40
Benzene
Concen: 49.604 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

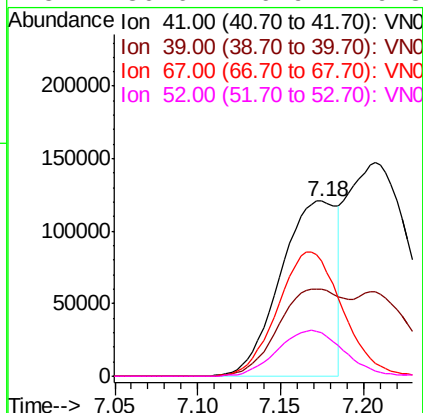
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.5	27.7





#41
Methacrylonitrile
Concen: 52.628 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

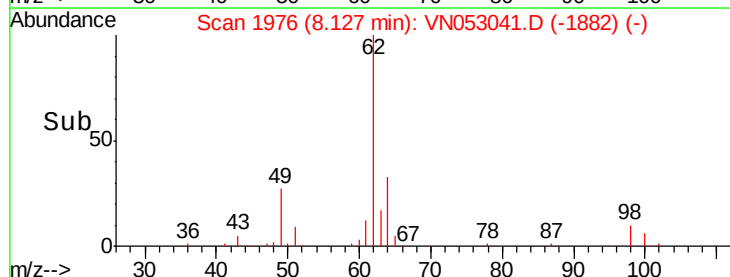
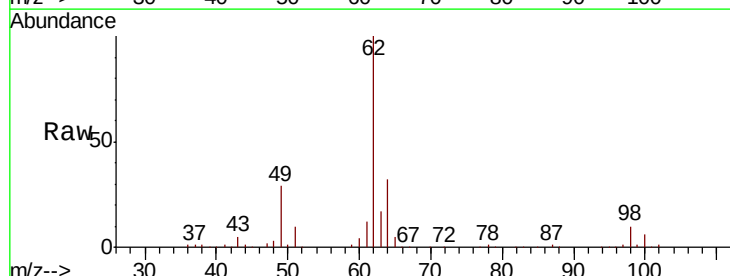
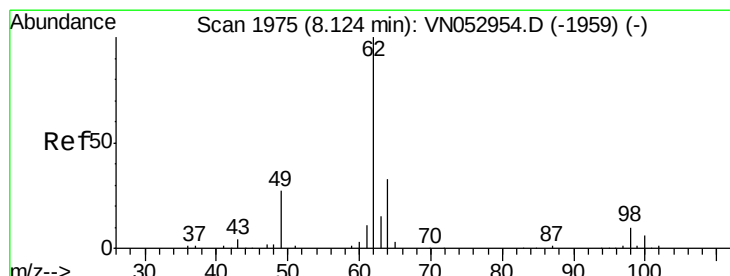
Tot Ion	Ratio	Lower	Upper
41	100		
39	57.6	48.0	72.0
67	81.6	70.3	105.5
52	30.6	26.9	40.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

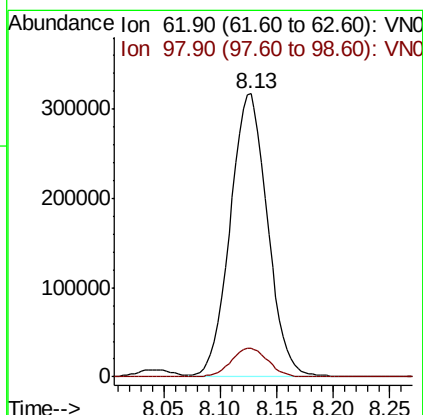
Manual Integrations
APPROVED

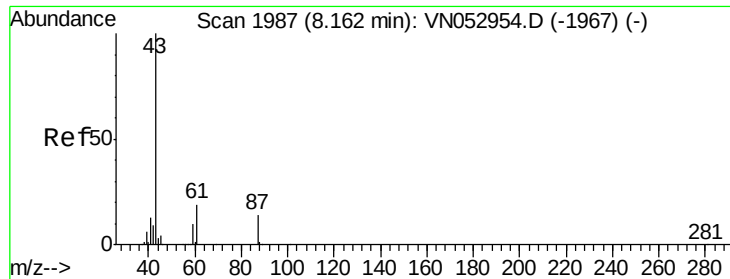
MMDadoda
12/20/2018 9:33:40 AM



#42
1,2-Dichloroethane
Concen: 48.631 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	19.0





#43

Isopropyl Acetate

Concen: 50.399 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

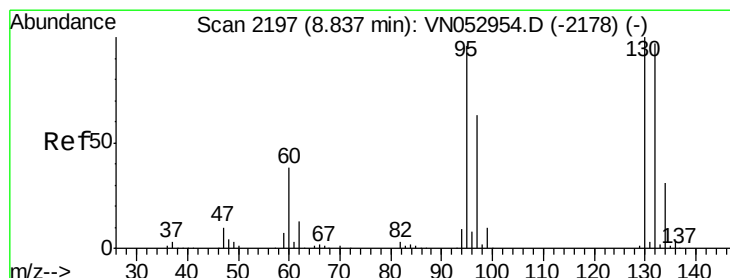
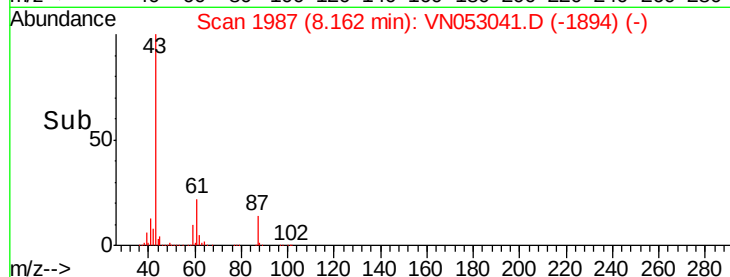
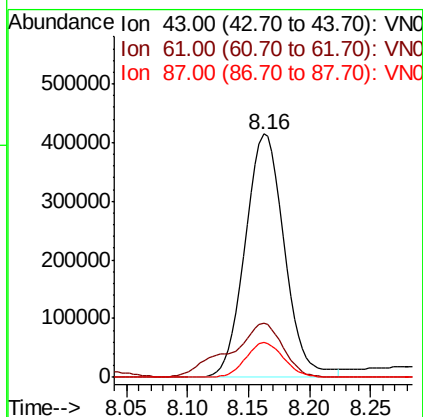
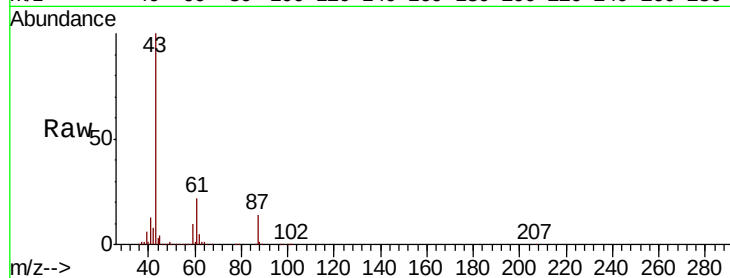
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	921420
Ion Ratio	Lower	Upper	
43	100		
61	29.9	22.9	34.3
87	13.8	10.6	15.8

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#44

Trichloroethene

Concen: 47.803 ug/l

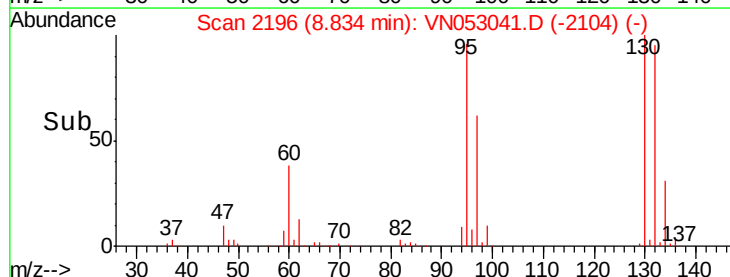
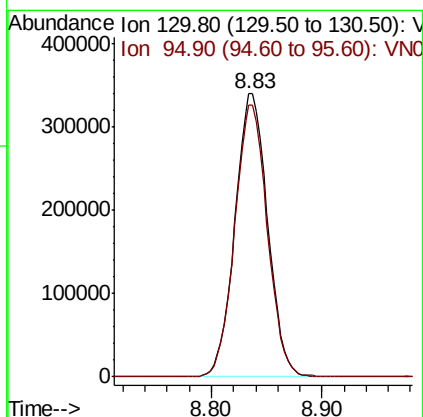
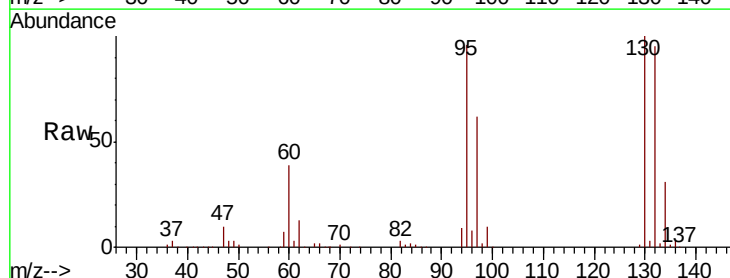
RT: 8.83 min Scan# 2196

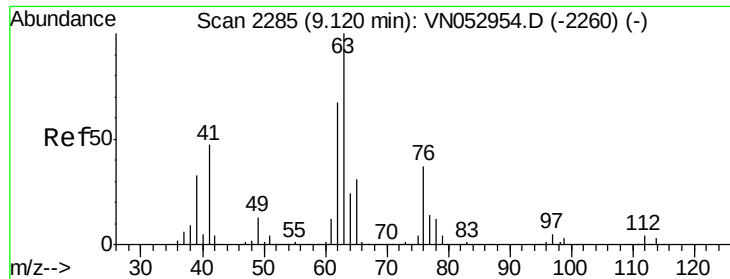
Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Tgt Ion:	130	Resp:	696126
Ion Ratio	Lower	Upper	
130	100		
95	96.1	0.0	197.8





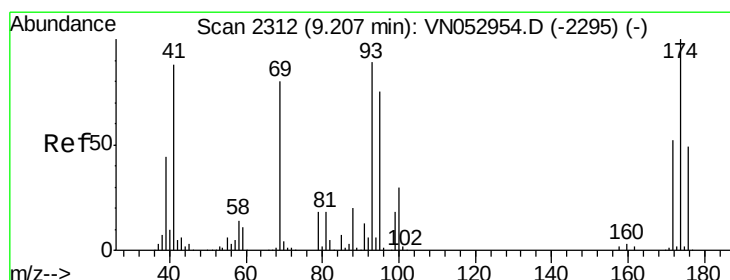
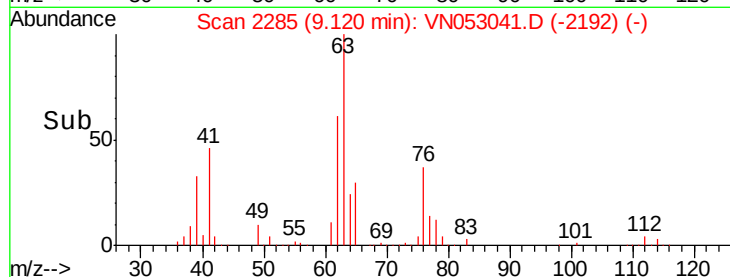
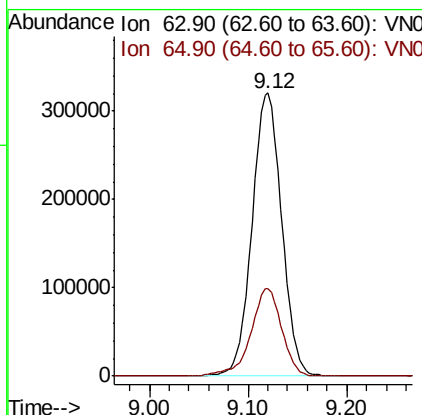
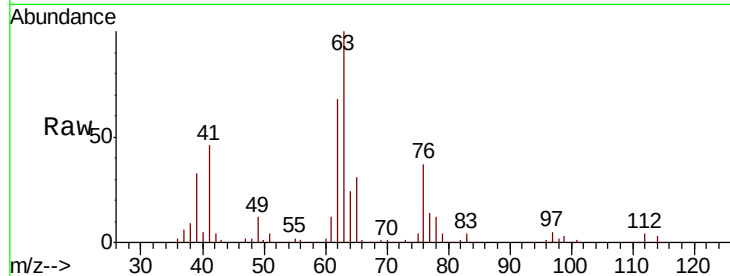
#45
 1,2-Dichloropropane
 Concen: 50.534 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 662695
 Ion Ratio Lower Upper
 63 100
 65 31.1 24.6 37.0

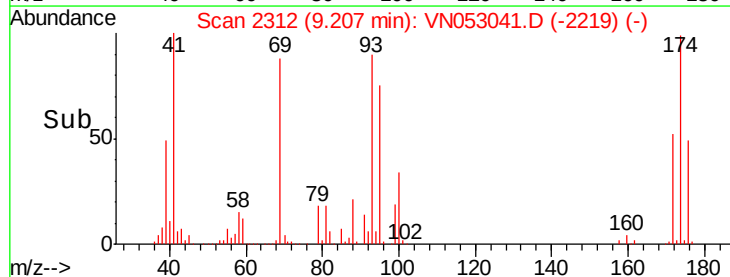
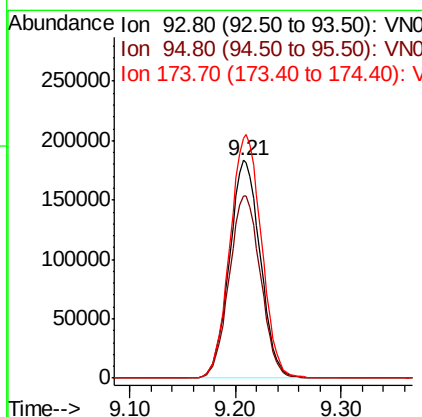
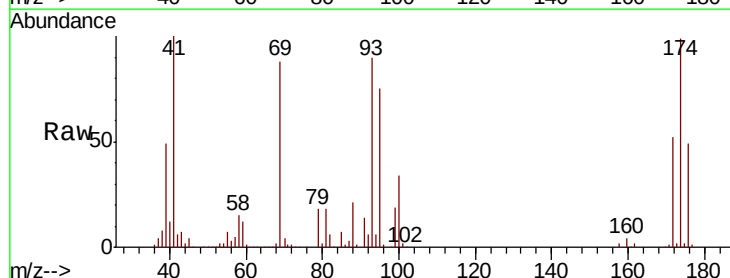
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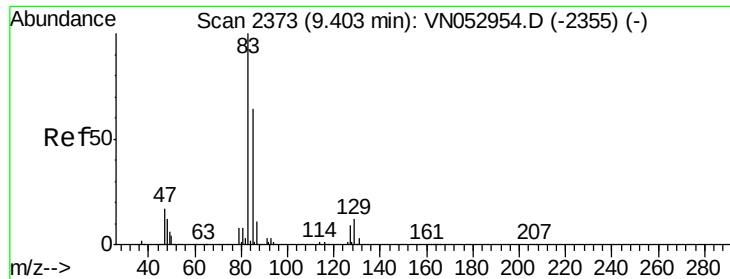
MMDadoda
 12/20/2018 9:33:40 AM



#46
 Dibromomethane
 Concen: 48.667 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion: 93 Resp: 371791
 Ion Ratio Lower Upper
 93 100
 95 85.0 67.8 101.6
 174 114.1 89.0 133.4





#47

Bromodichloromethane

Concen: 48.731 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

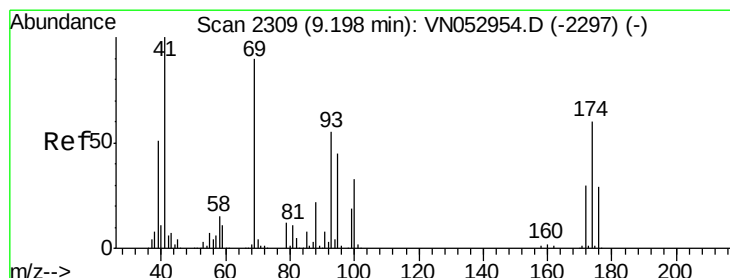
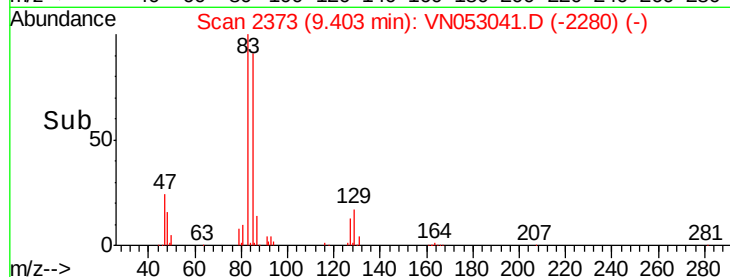
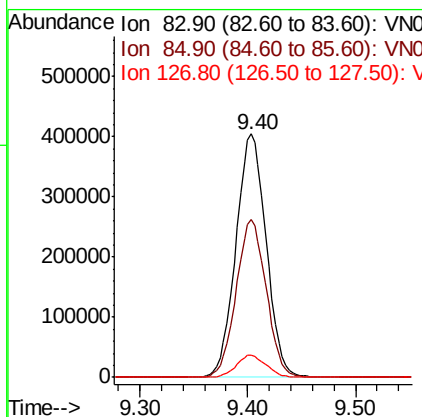
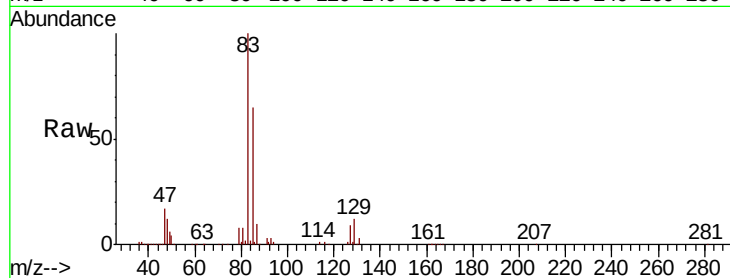
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	791340
Ion Ratio	Lower	Upper	
83	100		
85	64.8	51.6	77.4
127	9.0	7.1	10.7

Manual Integrations
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12/20/2018 9:33:40 AM



#48

Methyl methacrylate

Concen: 50.325 ug/l

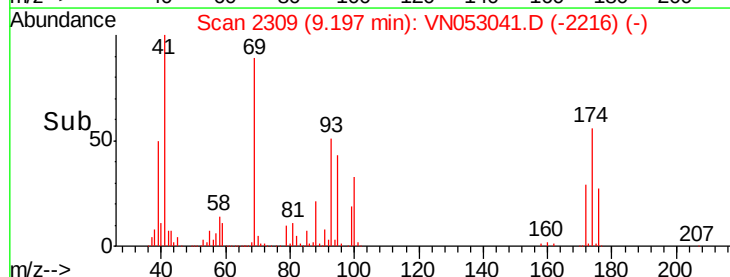
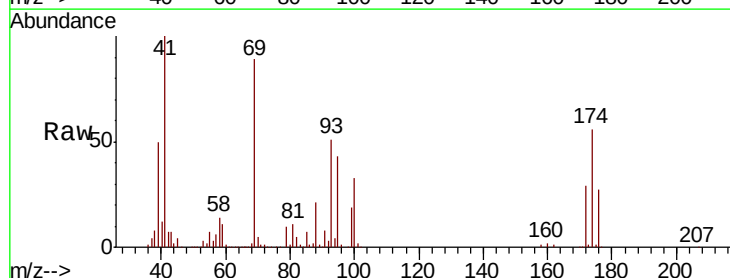
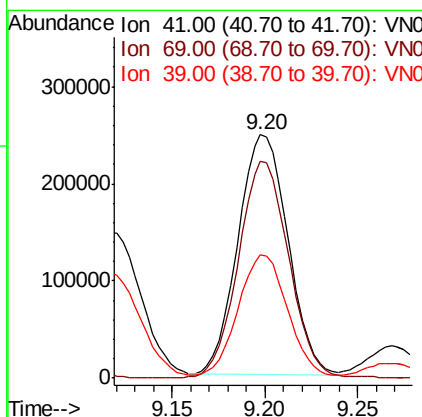
RT: 9.20 min Scan# 2309

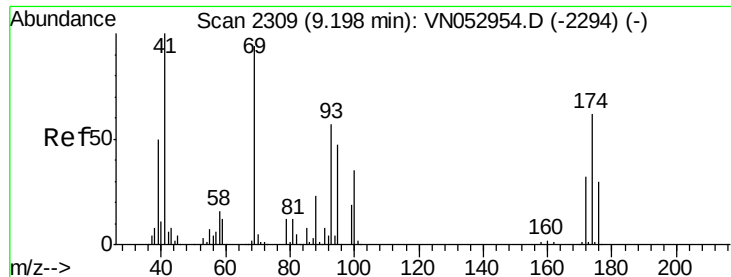
Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Tgt Ion:	41	Resp:	461437
Ion Ratio	Lower	Upper	
41	100		
69	91.8	72.2	108.2
39	51.5	41.9	62.9





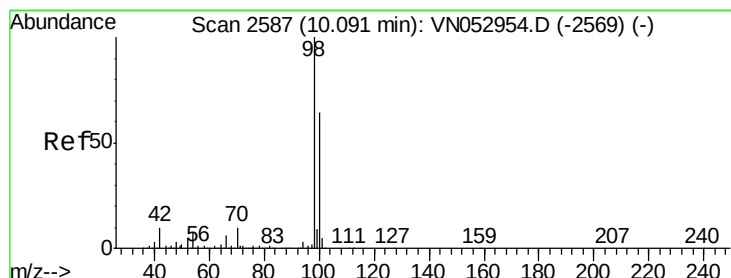
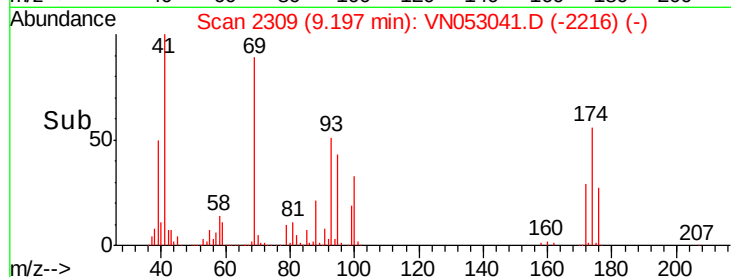
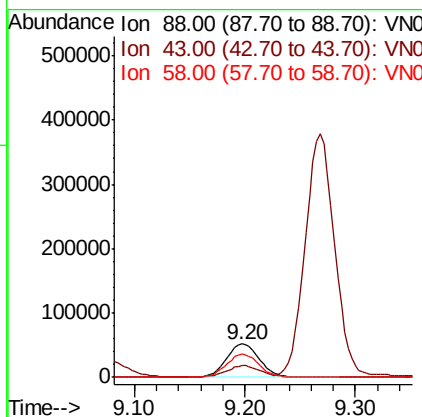
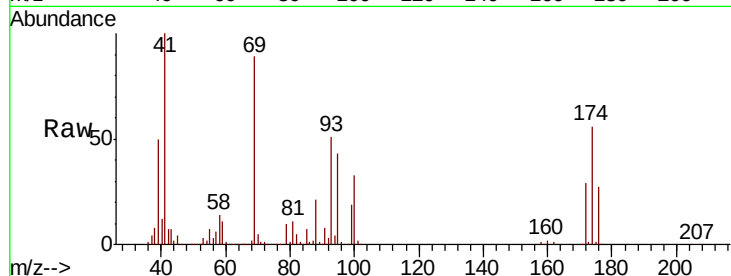
#49
1,4-Dioxane
Concen: 926.566 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.9	26.6	40.0
58	69.3	58.4	87.6

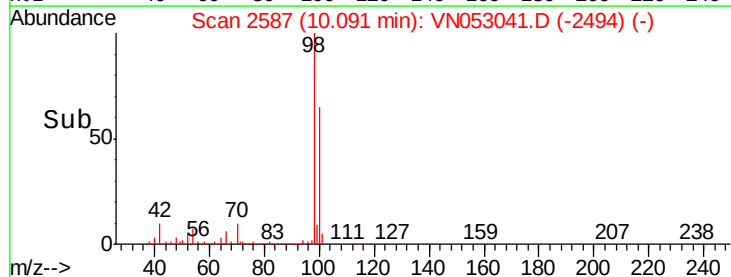
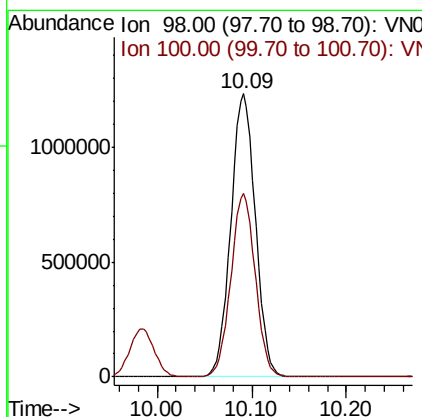
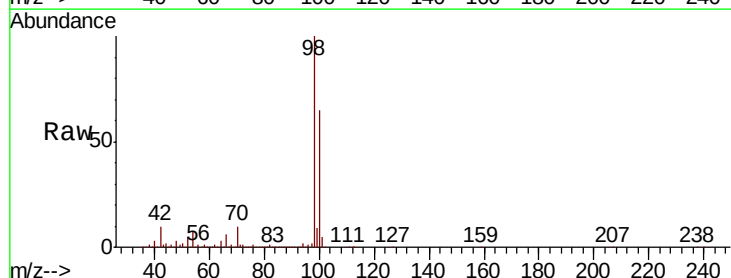
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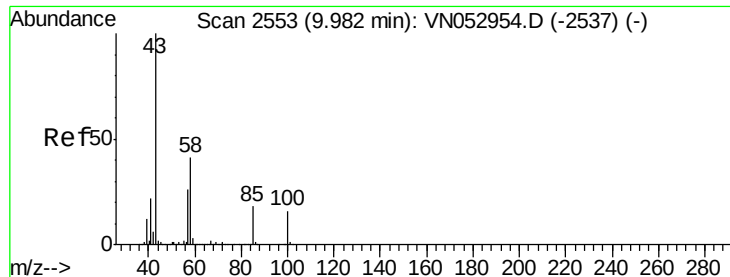
MMDadoda
12/20/2018 9:33:40 AM



#50
Toluene-d8
Concen: 926.566 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 259.630 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 2375794

Ion Ratio Lower Upper

43 100

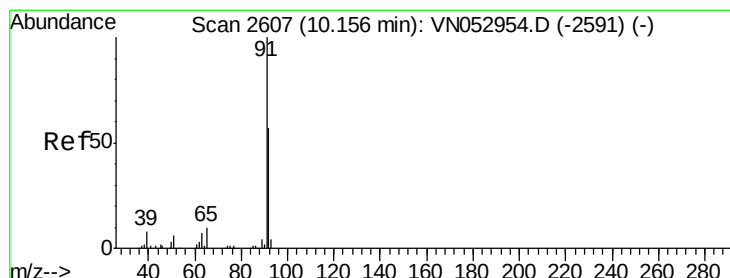
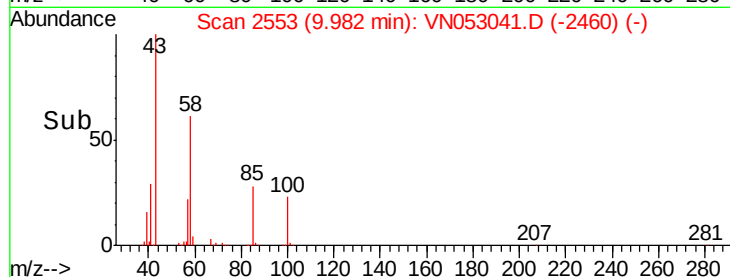
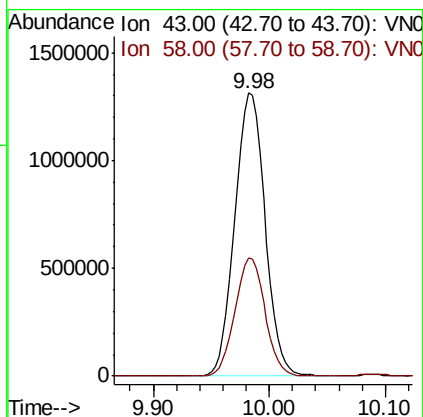
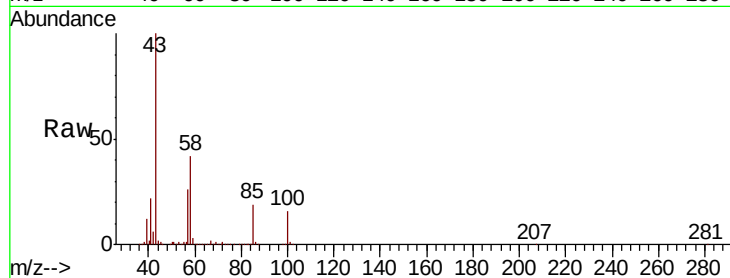
58 41.4 32.2 48.4

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#52

Toluene

Concen: 49.658 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053041.D

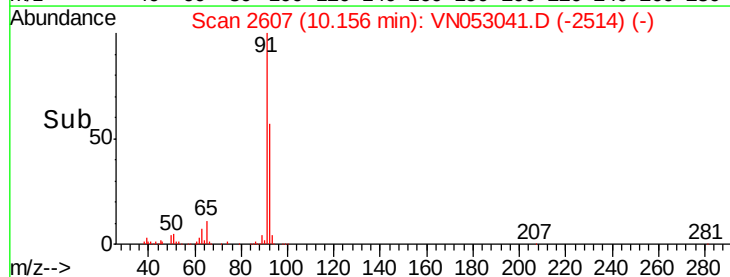
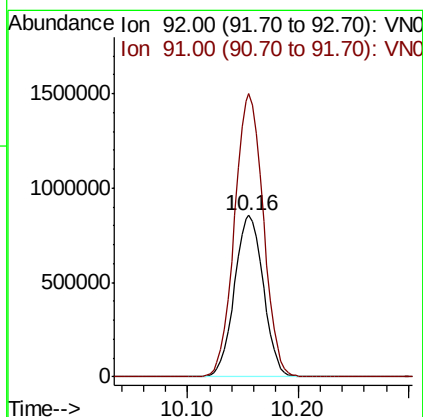
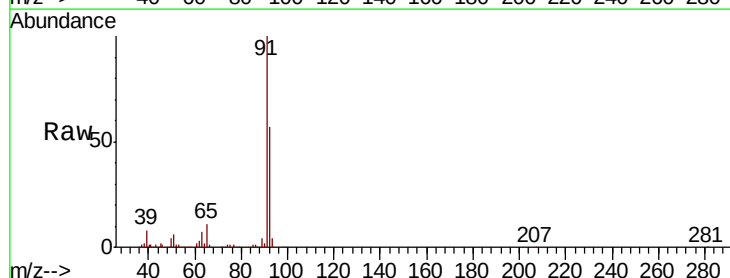
Acq: 20 Dec 2018 5:30

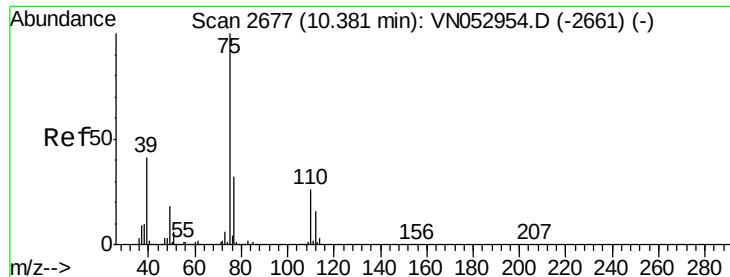
Tgt Ion: 92 Resp: 1549645

Ion Ratio Lower Upper

92 100

91 174.6 139.8 209.6





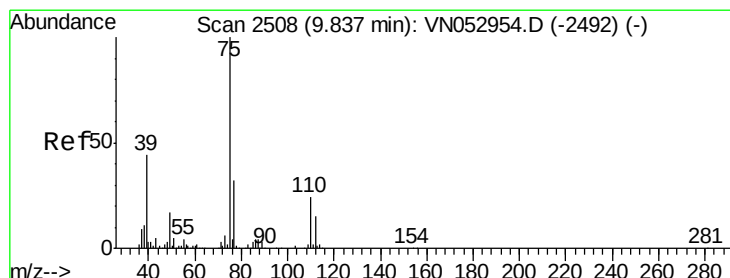
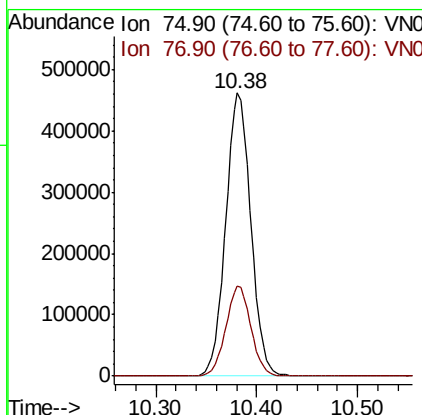
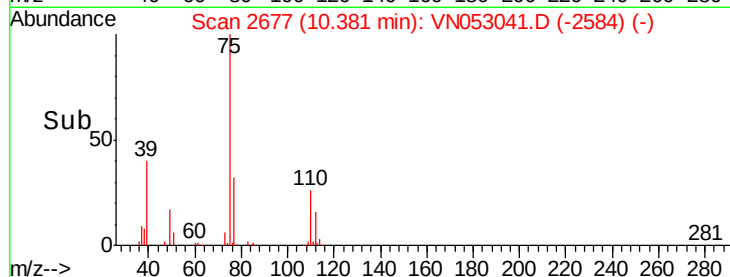
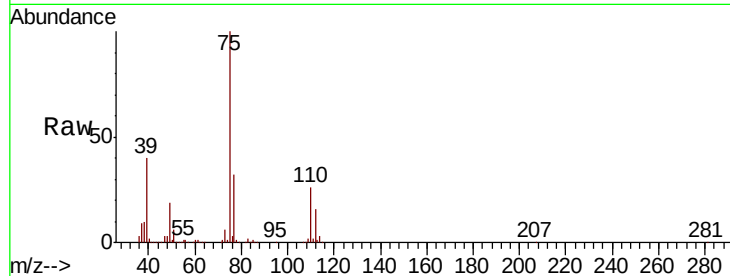
#53
t-1,3-Dichloropropene
Concen: 47.044 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.6	38.4

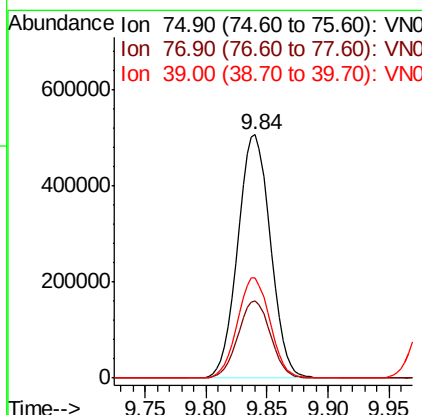
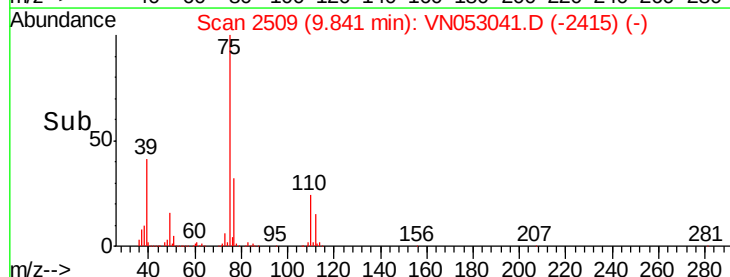
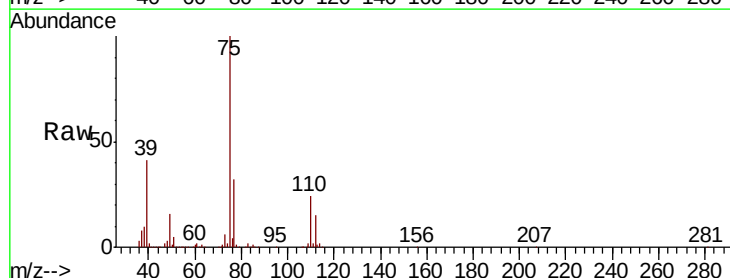
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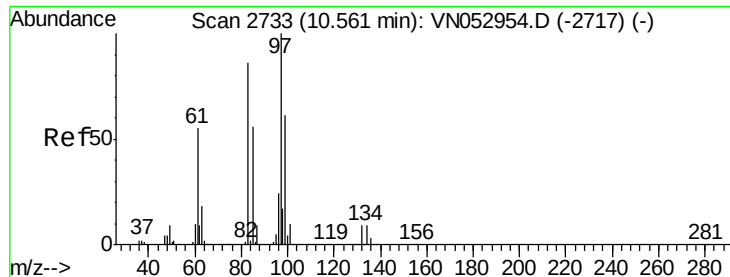
MMDadoda
12/20/2018 9:33:40 AM



#54
cis-1,3-Dichloropropene
Concen: 47.781 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.8	38.8
39	41.0	34.8	52.2





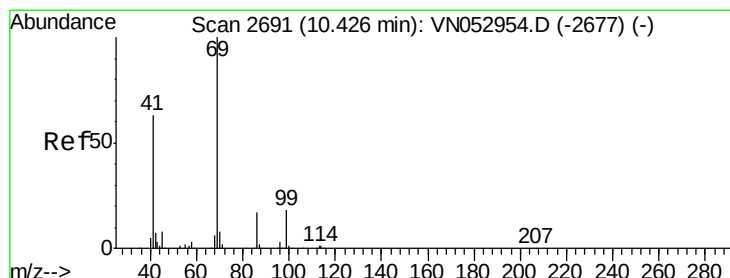
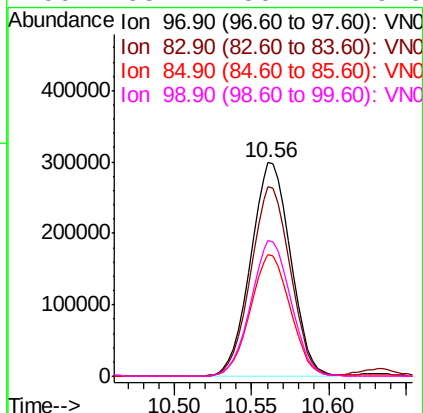
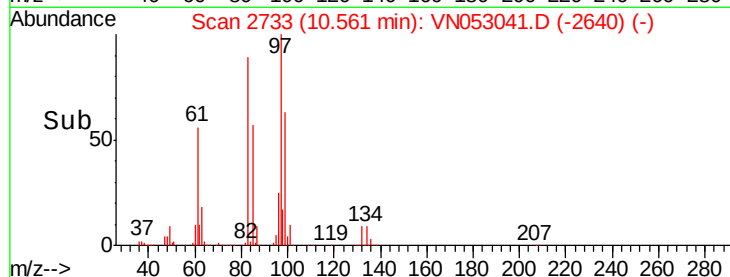
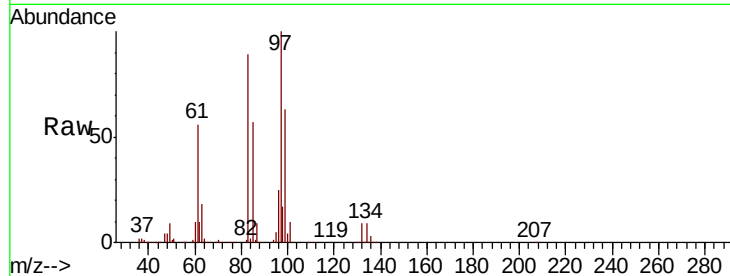
#55
 1,1,2-Trichloroethane
 Concen: 49.559 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	539547
Ion	Ratio	Lower	Upper
97	100		
83	88.6	70.9	106.3
85	56.8	45.4	68.2
99	63.4	50.4	75.6

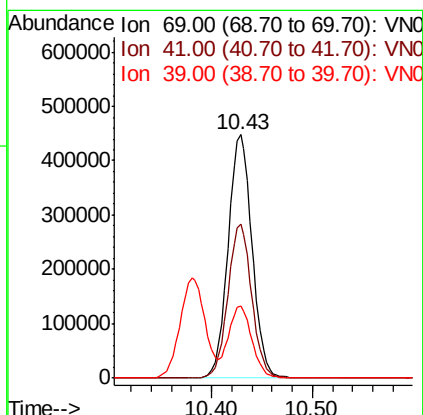
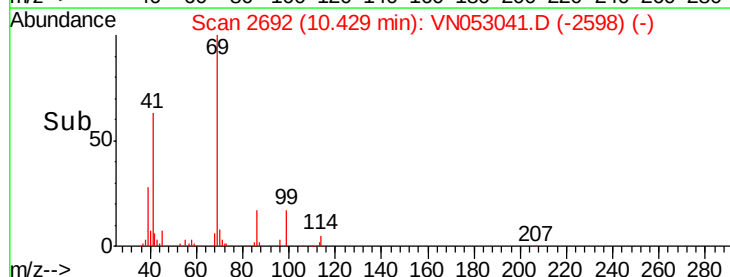
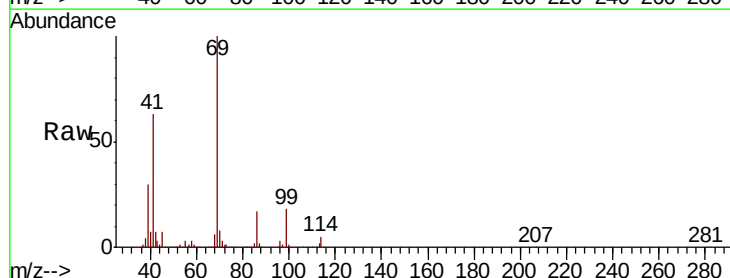
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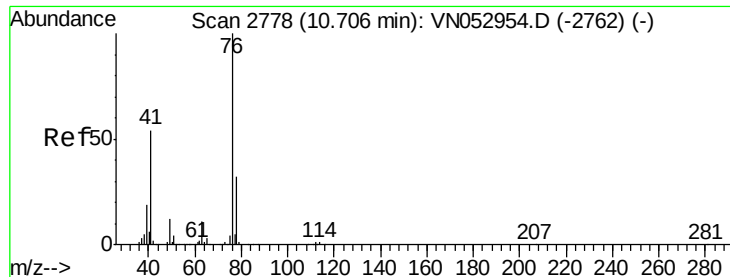
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#56
 Ethyl methacrylate
 Concen: 51.652 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion:	69	Resp:	744299
Ion	Ratio	Lower	Upper
69	100		
41	62.0	51.7	77.5
39	29.0	24.6	37.0





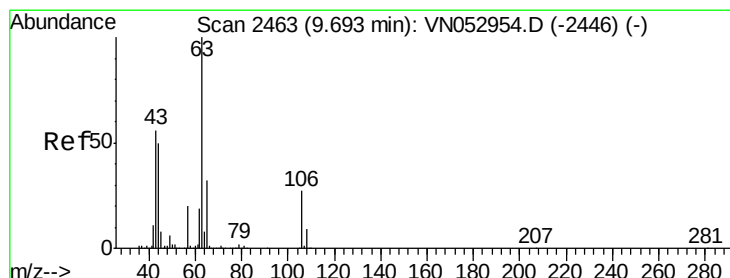
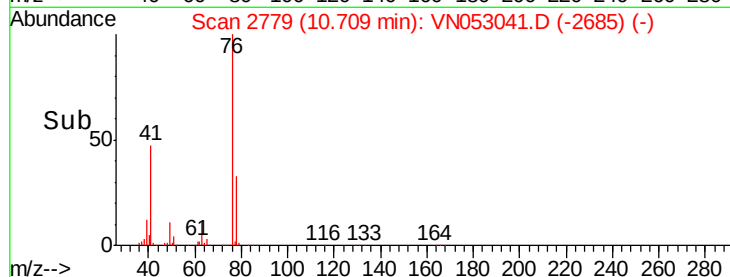
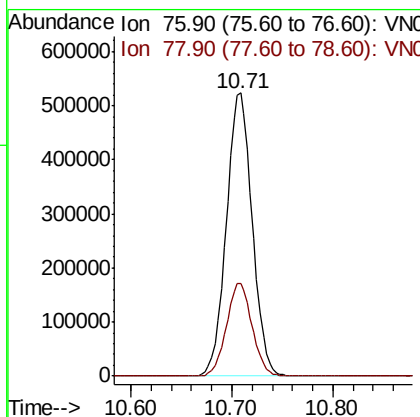
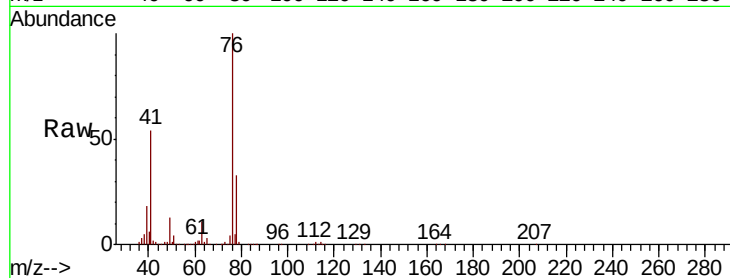
#57
 1,3-Dichloropropane
 Concen: 50.091 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 935155
 Ion Ratio Lower Upper
 76 100
 78 32.5 25.8 38.8

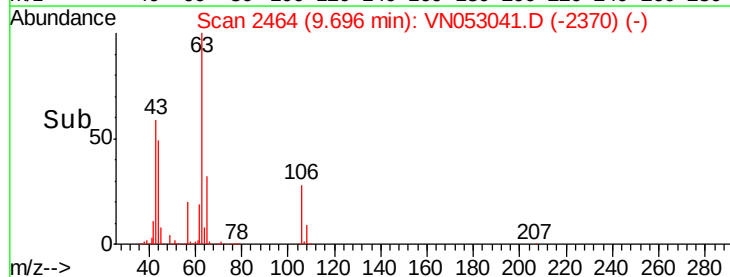
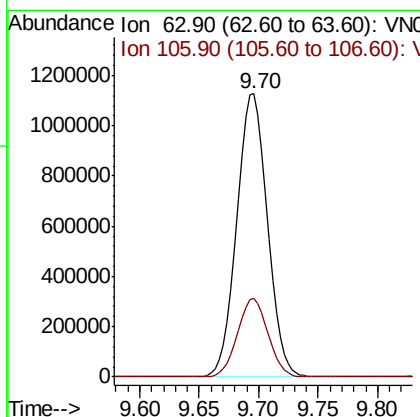
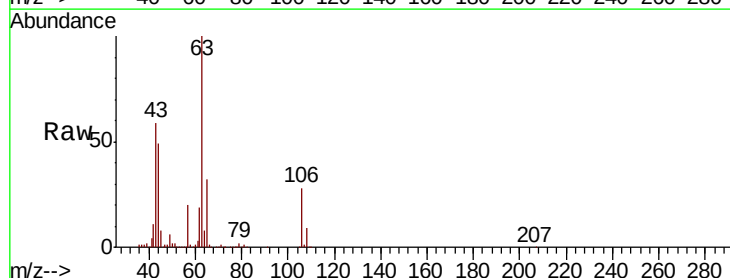
Manual Integrations
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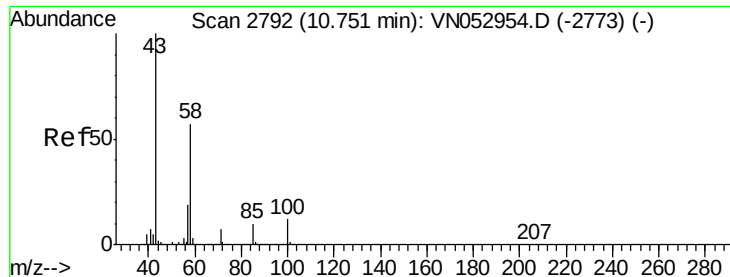
MMDadoda
 12/20/2018 9:33:40 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 255.295 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion: 63 Resp: 2019636
 Ion Ratio Lower Upper
 63 100
 106 27.5 21.0 31.6





#59

2-Hexanone

Concen: 257.382 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1593501

Ion Ratio Lower Upper

43 100

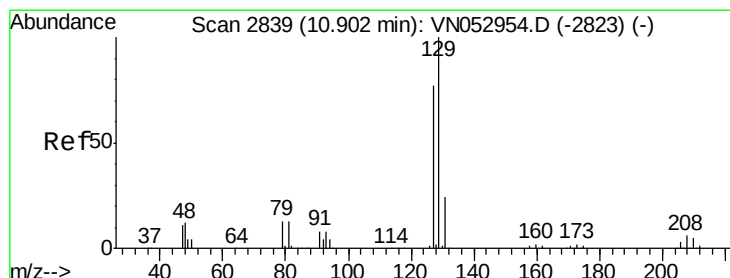
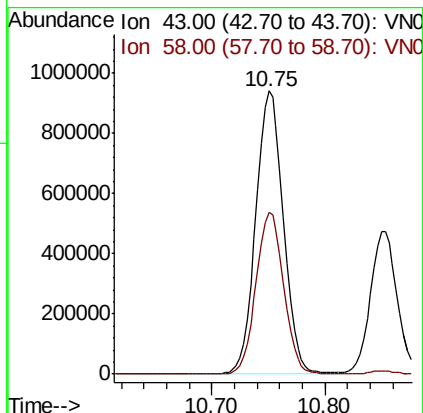
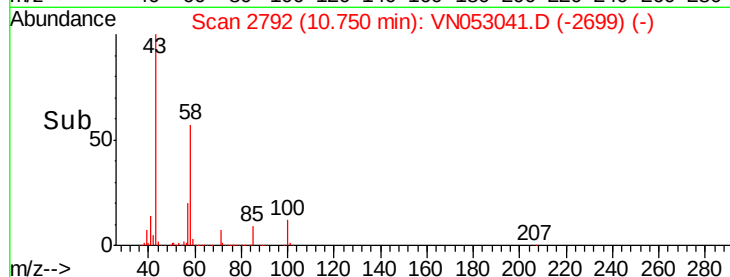
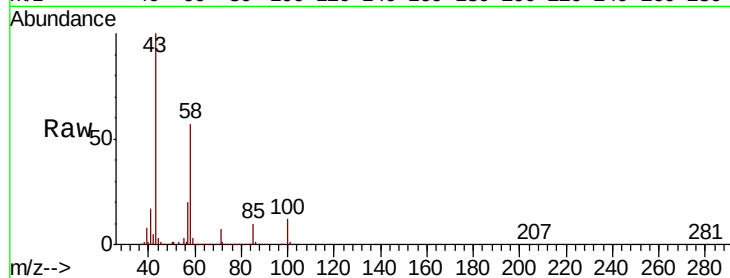
58 57.5 28.1 84.3

Manual Integrations

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MMDadoda

12/20/2018 9:33:40 AM



#60

Dibromochloromethane

Concen: 48.194 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN053041.D

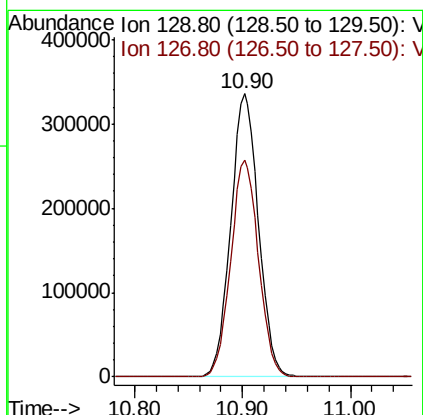
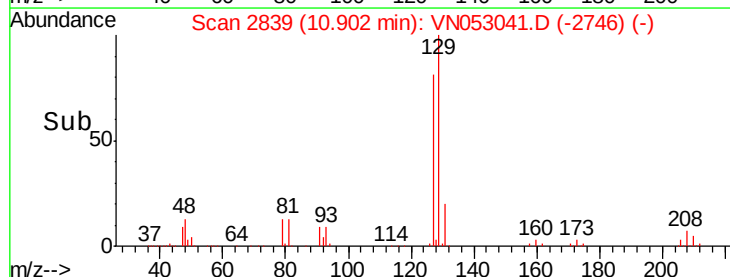
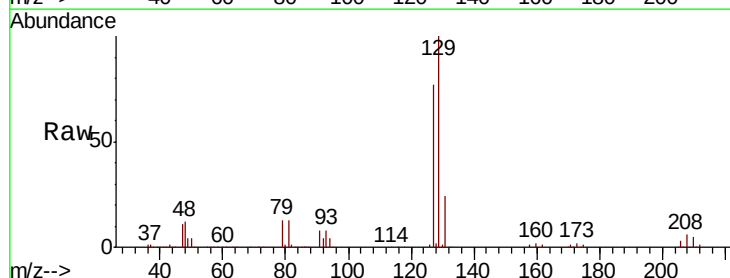
Acq: 20 Dec 2018 5:30

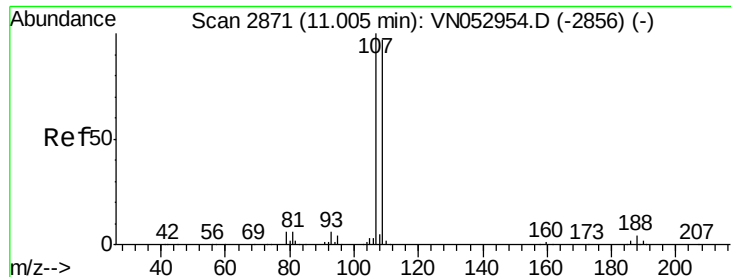
Tgt Ion: 129 Resp: 600589

Ion Ratio Lower Upper

129 100

127 76.6 38.6 116.0





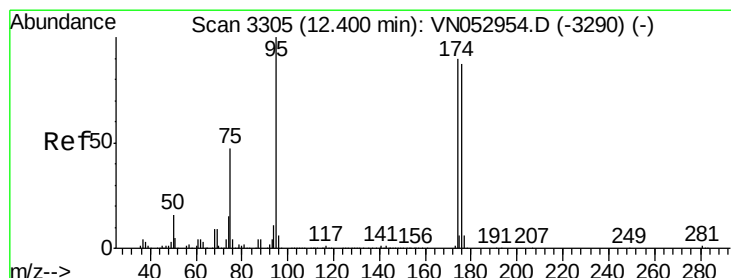
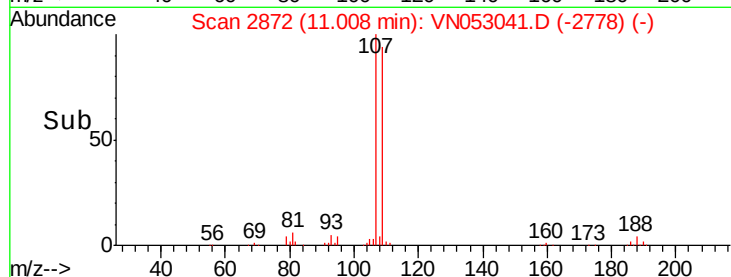
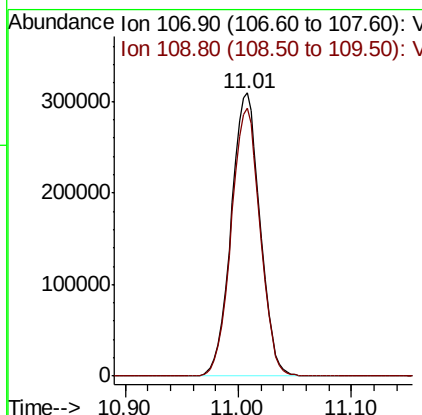
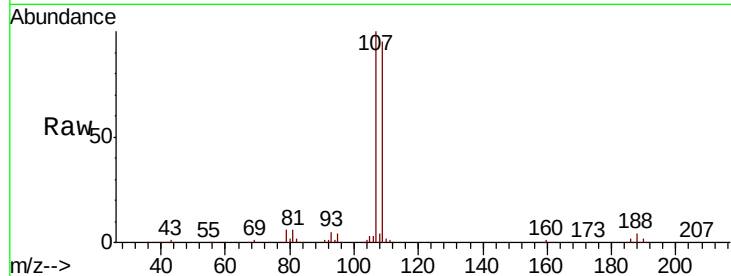
#61
 1,2-Dibromoethane
 Concen: 49.567 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.4	113.0

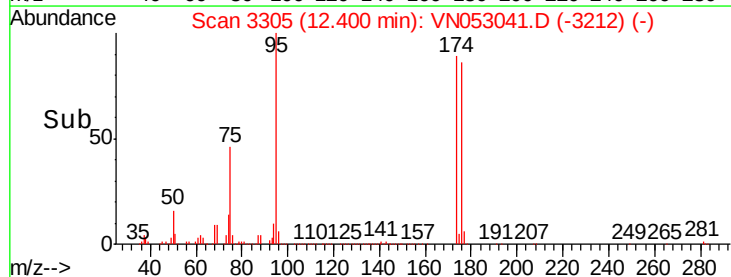
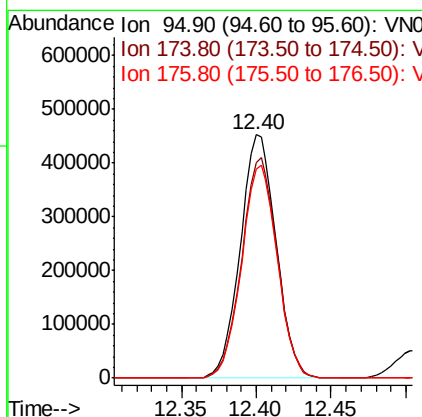
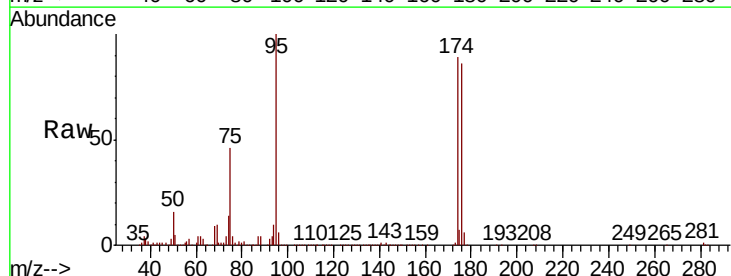
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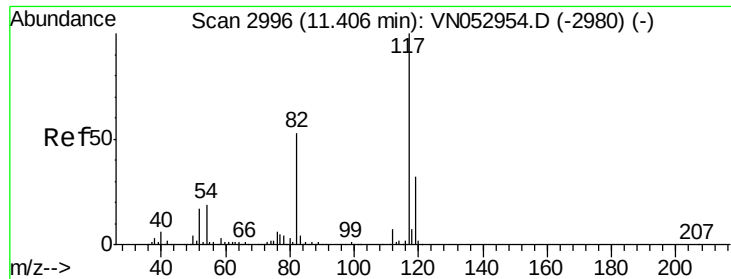
MMDadoda
 12/20/2018 9:33:40 AM



#62
 4-Bromofluorobenzene
 Concen: 49.567 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.0	0.0	178.8
176	87.3	0.0	173.8





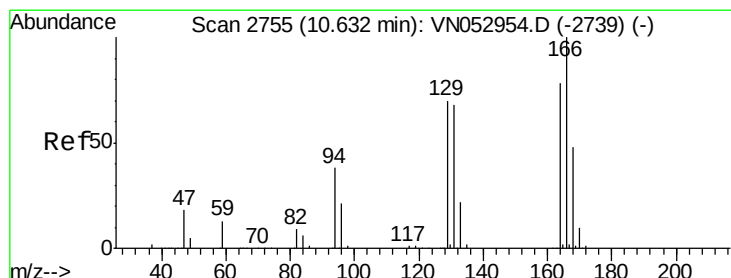
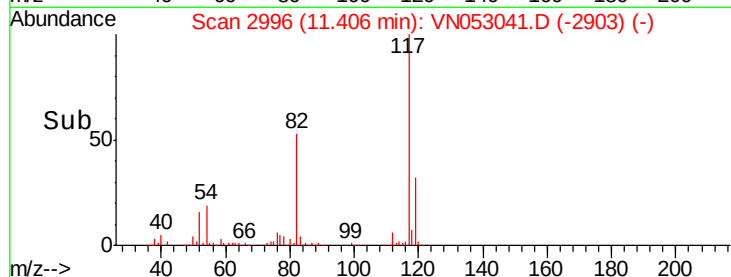
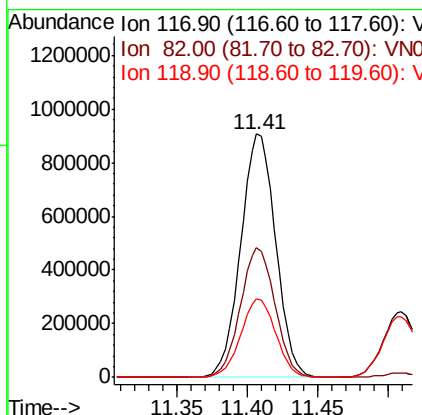
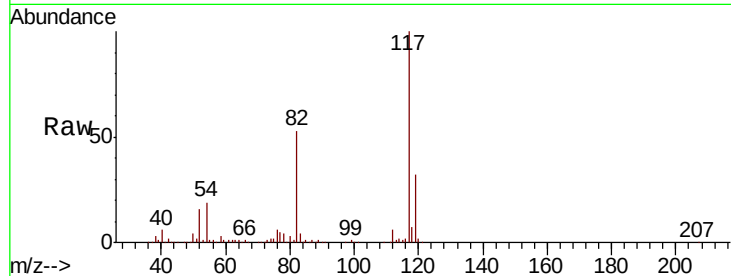
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.8	64.2
119	32.3	25.5	38.3

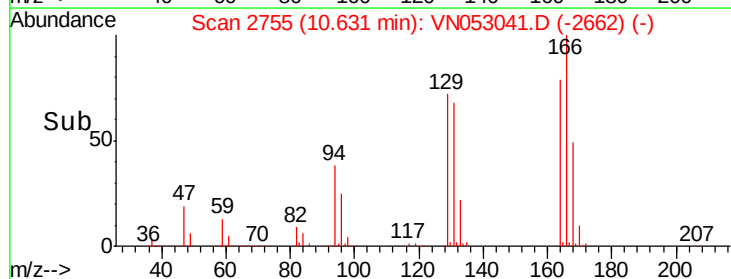
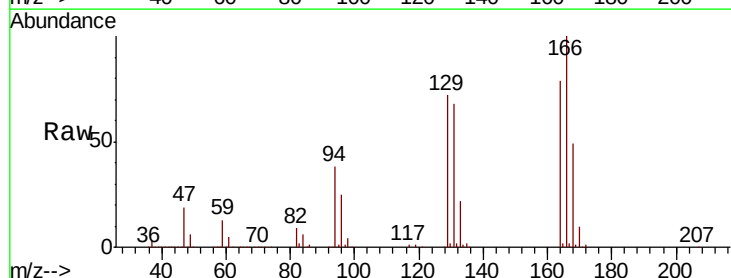
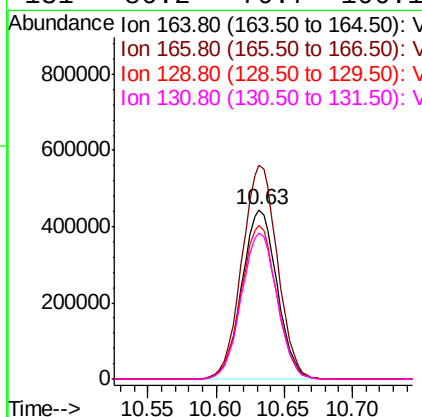
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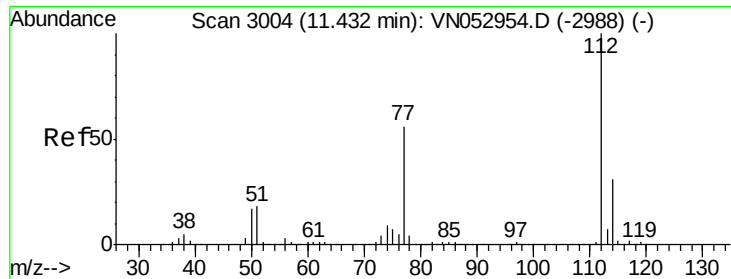
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#64
Tetrachloroethene
Concen: 46.416 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.0	102.9	154.3
129	90.9	73.7	110.5
131	86.2	70.7	106.1





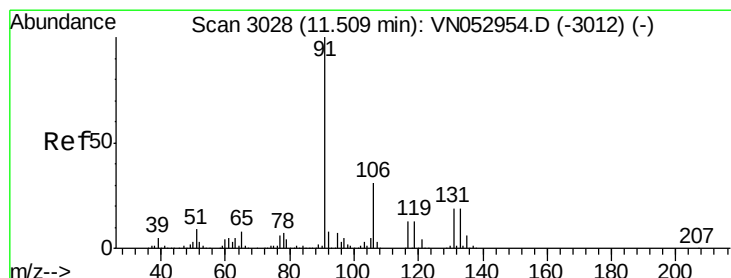
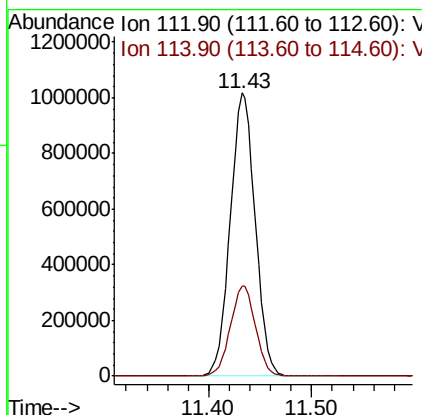
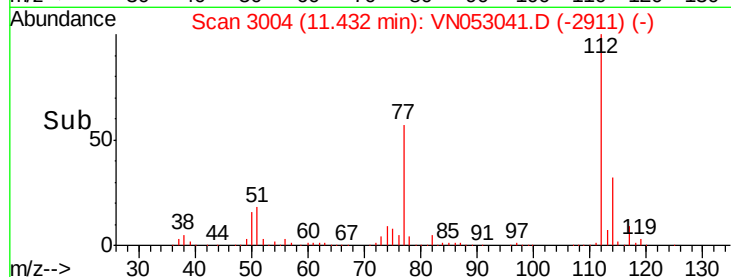
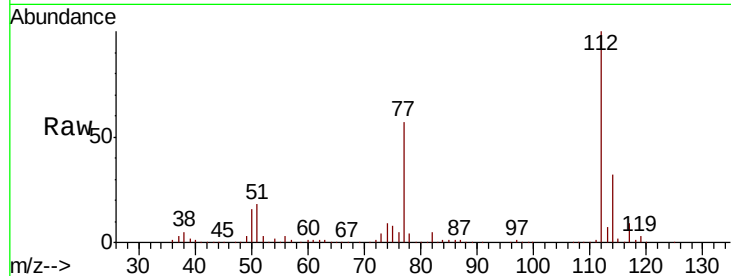
#65
Chlorobenzene
Concen: 48.991 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 1715353
Ion Ratio Lower Upper
112 100
114 31.9 25.5 38.3

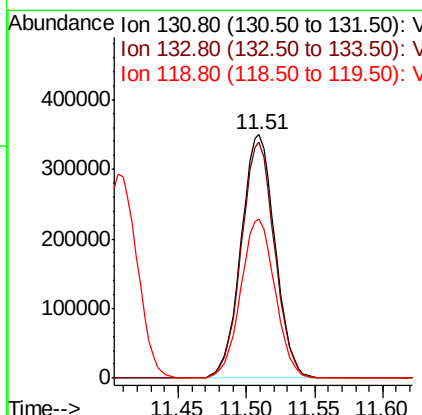
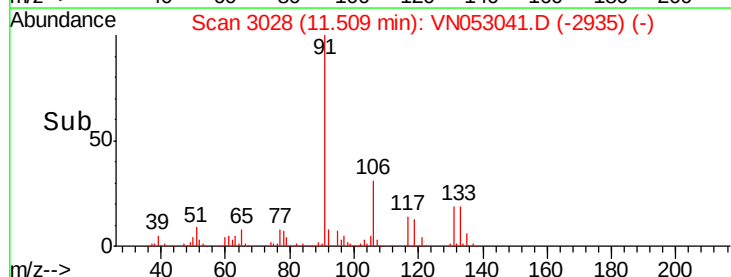
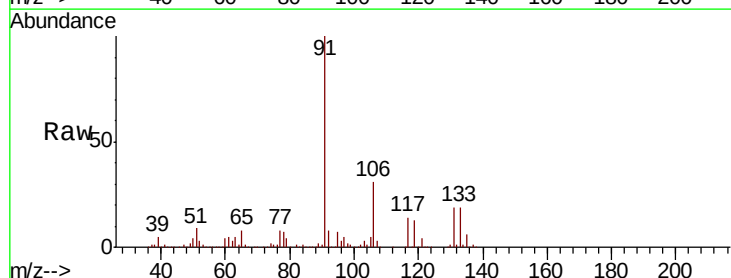
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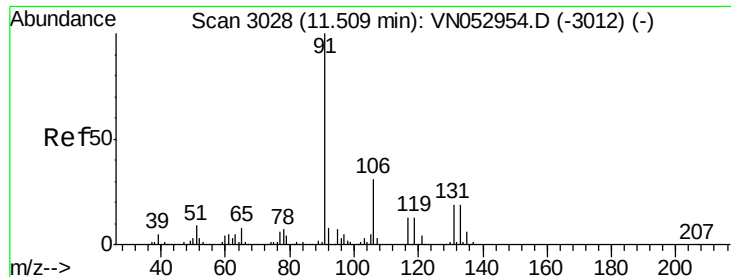
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.498 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion:131 Resp: 602687
Ion Ratio Lower Upper
131 100
133 95.5 47.6 142.9
119 66.0 33.3 99.8





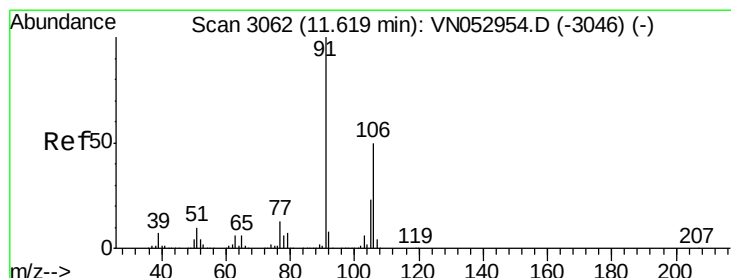
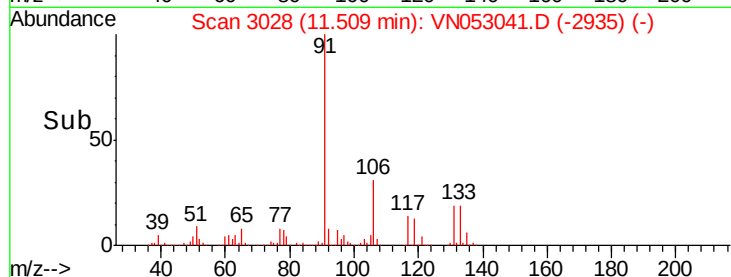
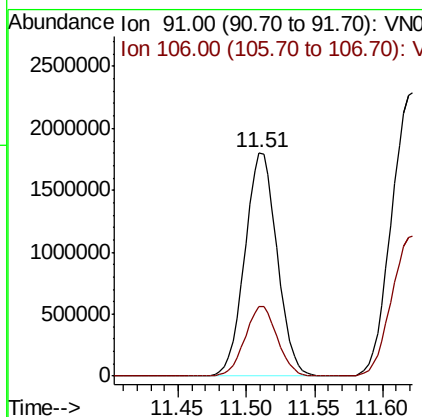
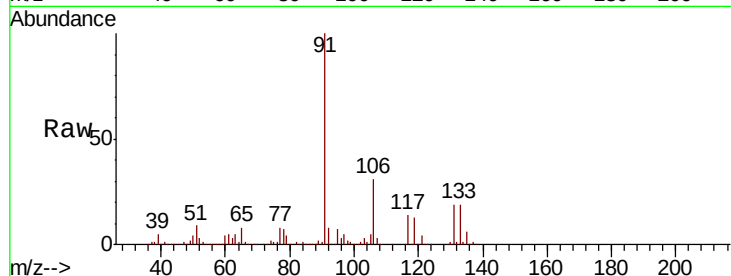
#67
Ethyl Benzene
Concen: 49.071 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 2954772
Ion Ratio Lower Upper
91 100
106 31.1 24.9 37.3

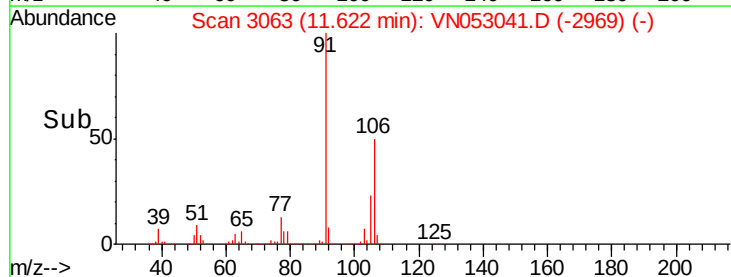
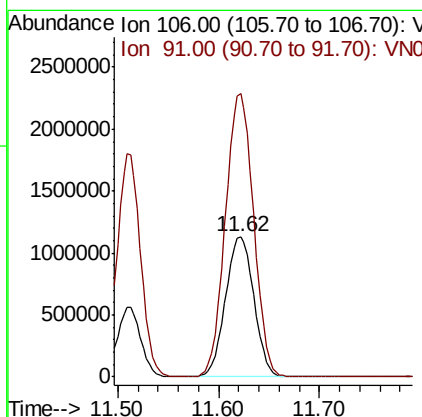
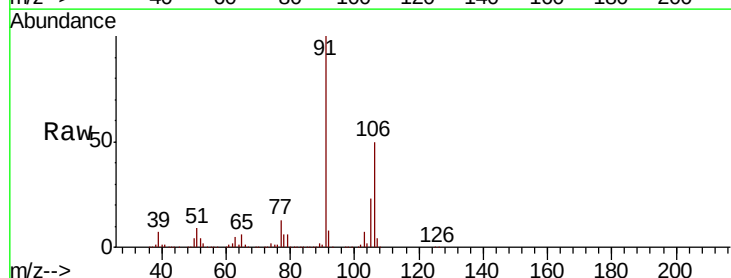
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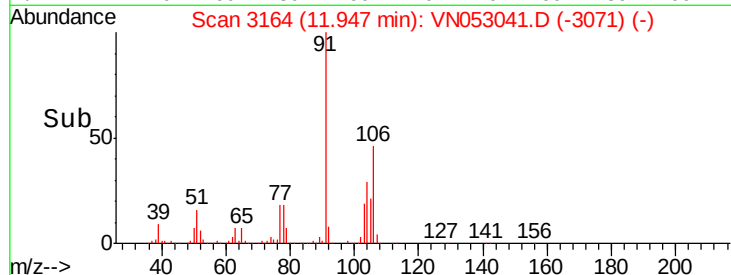
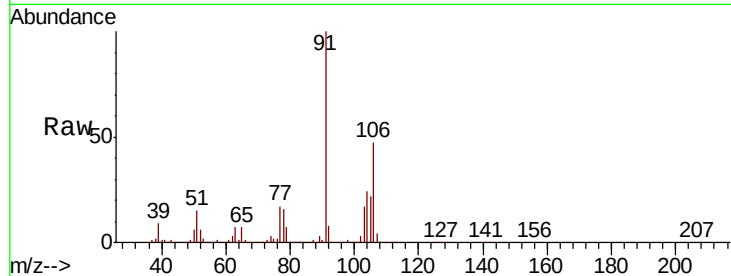
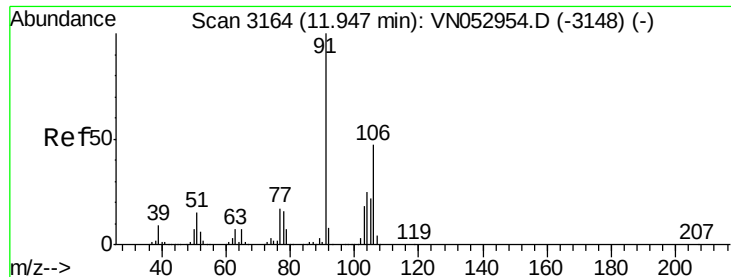
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#68
m/p-Xylenes
Concen: 96.629 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion: 106 Resp: 2211931
Ion Ratio Lower Upper
106 100
91 201.9 162.2 243.4





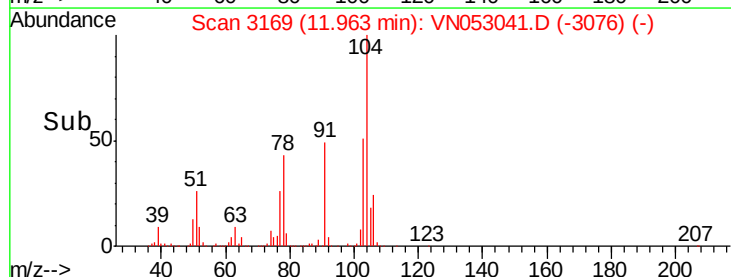
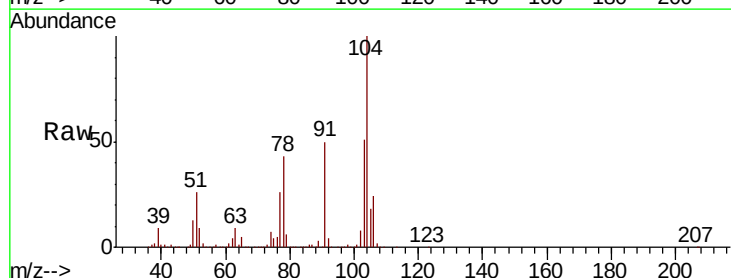
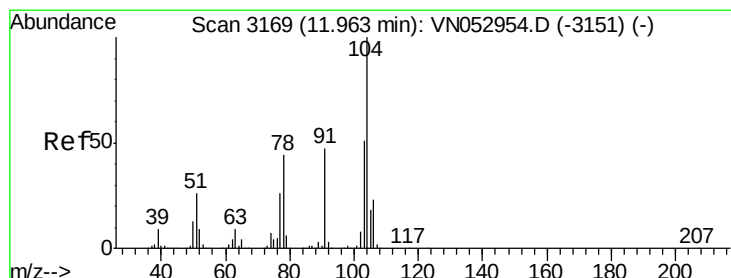
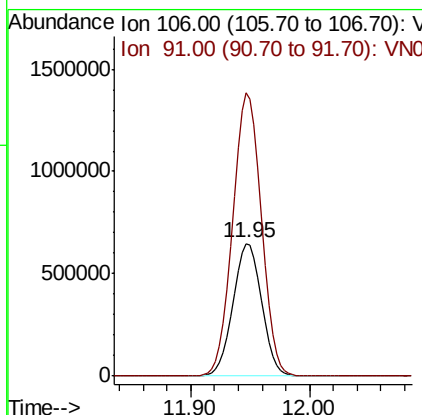
#69
o-Xylene
Concen: 49.334 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 1083657
Ion Ratio Lower Upper
106 100
91 212.7 106.6 319.8

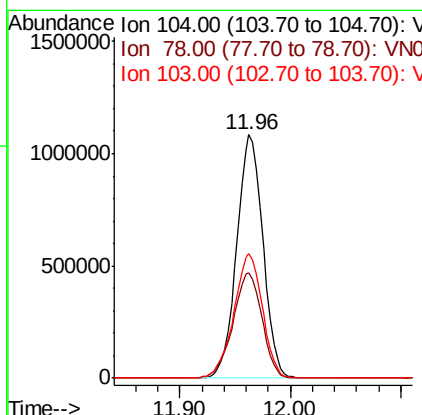
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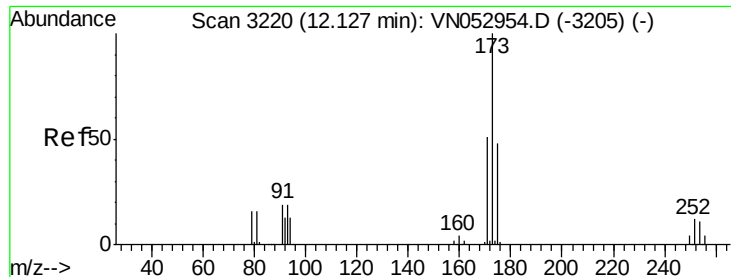
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#70
Styrene
Concen: 49.874 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion:104 Resp: 1786379
Ion Ratio Lower Upper
104 100
78 48.0 38.9 58.3
103 55.4 44.3 66.5





#71

Bromoform

Concen: 46.295 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 407215

Ion Ratio Lower Upper

173 100

175 48.6 24.3 72.9

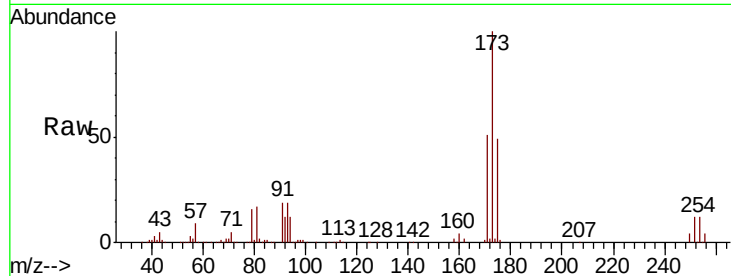
254 0.2 0.1 0.1#

Manual Integrations

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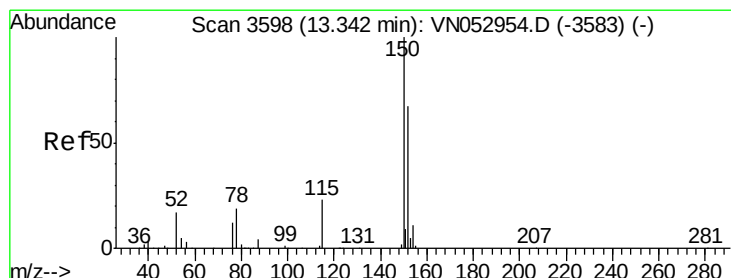
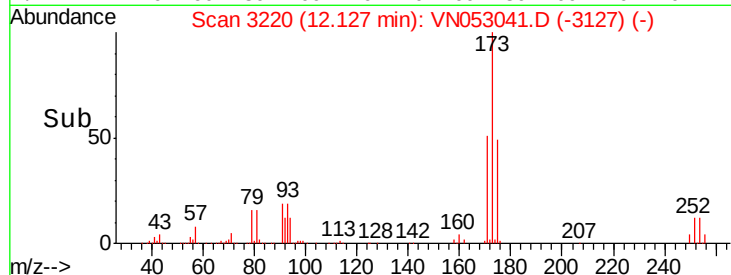
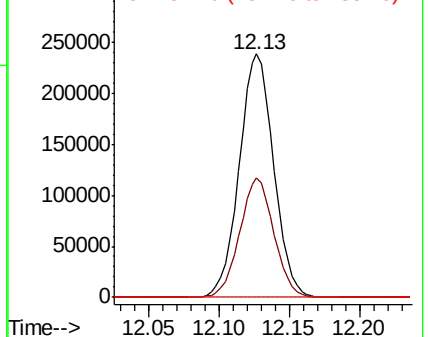
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Abundance Ion 172.70 (172.40 to 173.40): V

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: VN053041.D

Acq: 20 Dec 2018 5:30

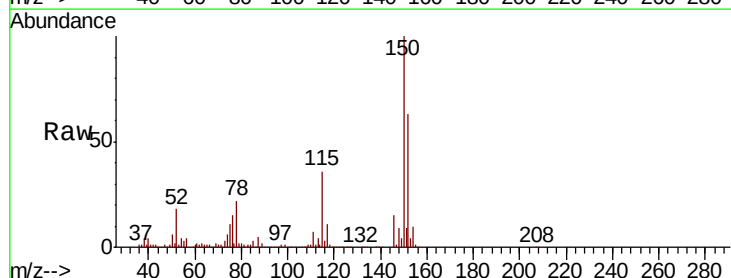
Tgt Ion:152 Resp: 687379

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

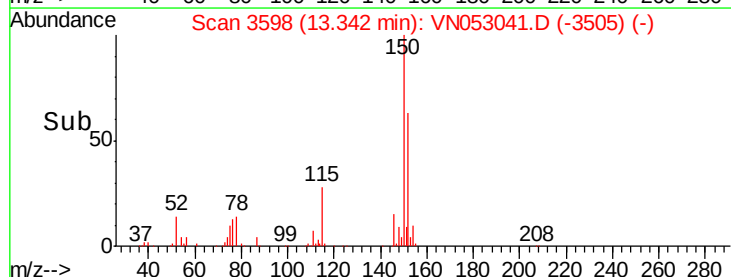
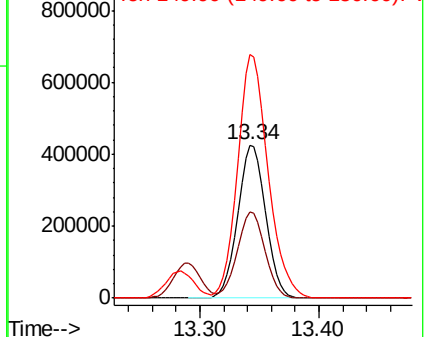
150 174.3 0.0 347.8

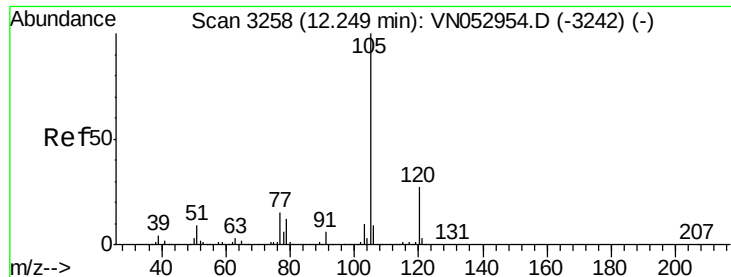


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 52.884 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 2844195

Ion Ratio Lower Upper

105 100

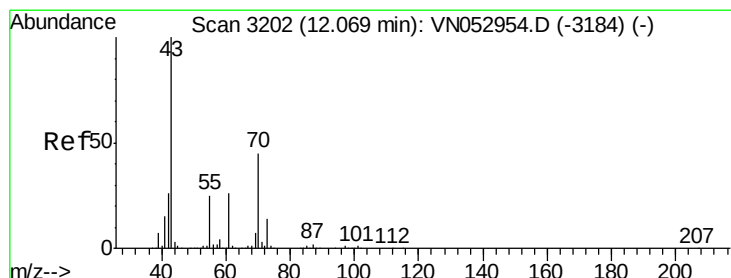
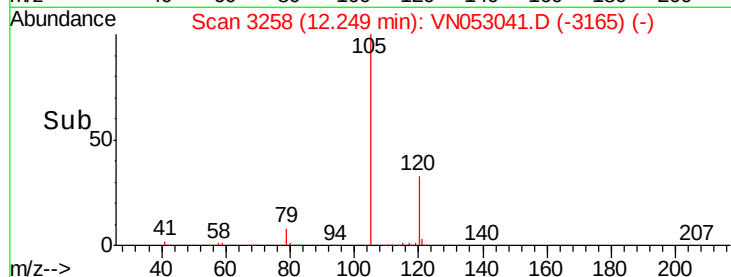
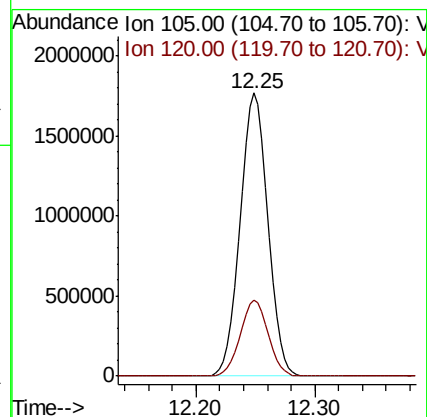
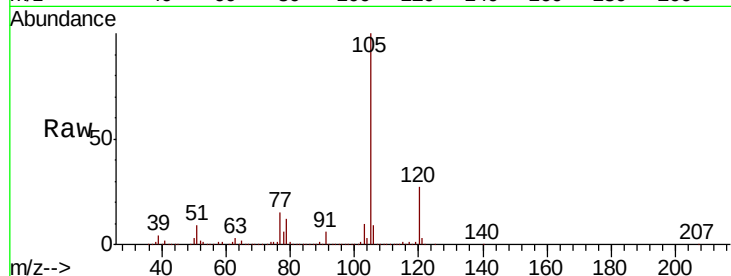
120 27.0 13.3 39.9

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#74

N-ethyl acetate

Concen: 59.961 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Tgt Ion: 43 Resp: 895313

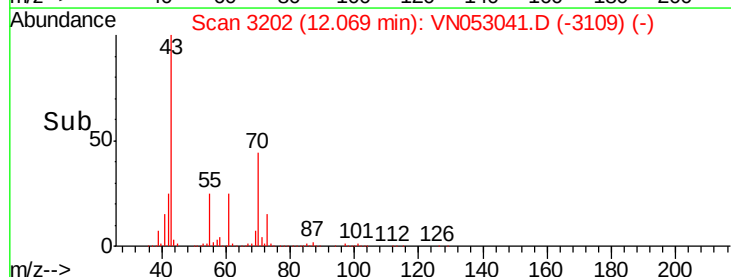
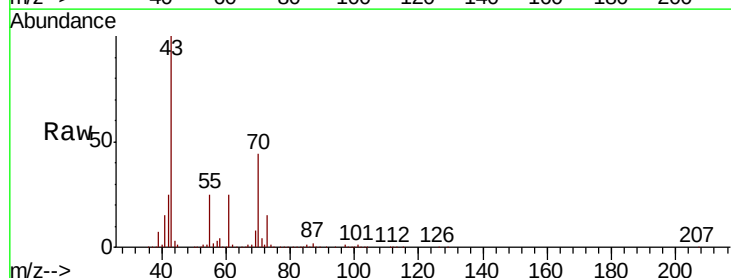
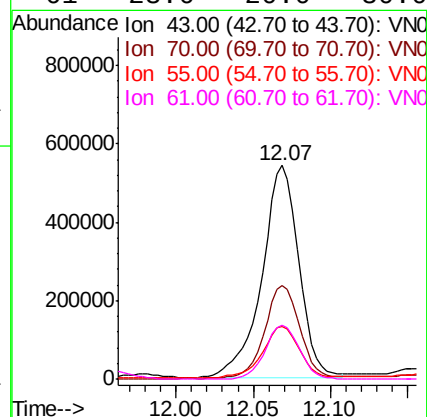
Ion Ratio Lower Upper

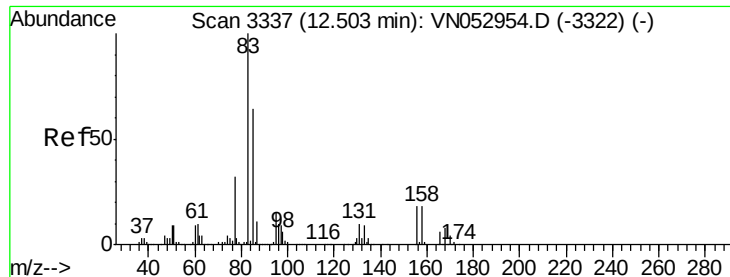
43 100

70 41.8 34.2 51.4

55 24.2 20.3 30.5

61 23.6 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 55.838 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

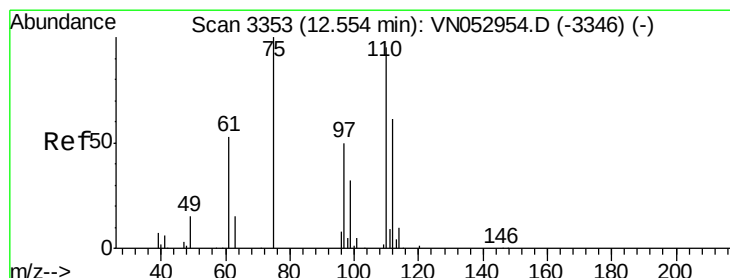
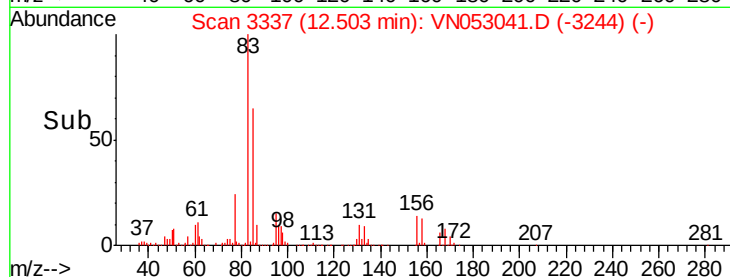
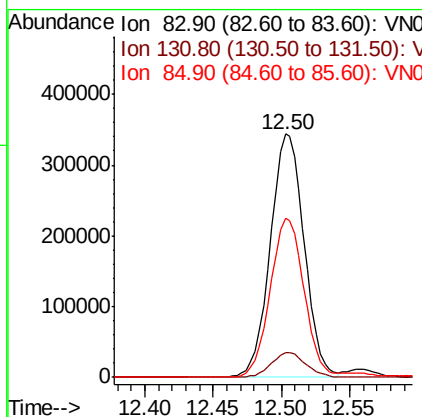
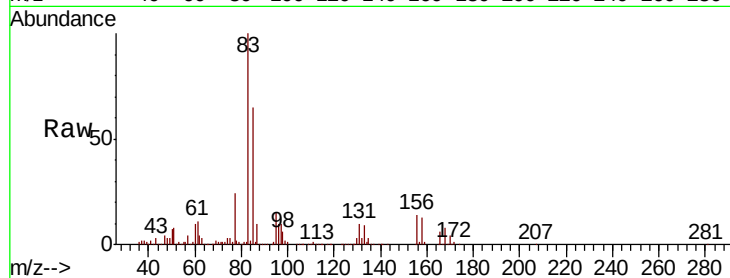
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	589156
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.2	15.6
85	65.2	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 45.503 ug/l m

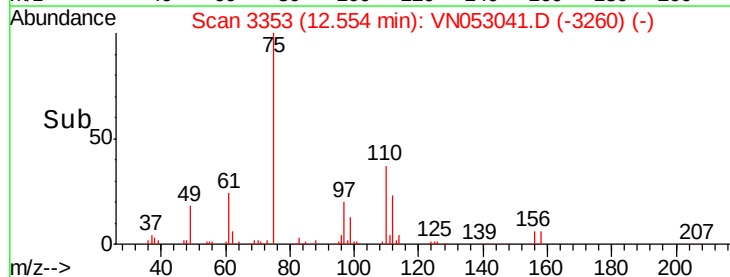
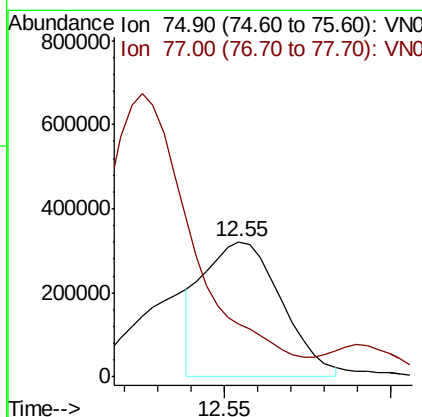
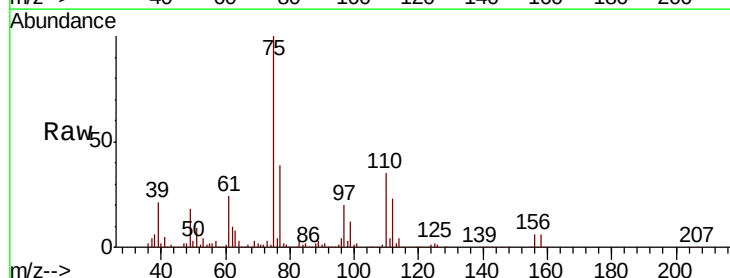
RT: 12.55 min Scan# 3353

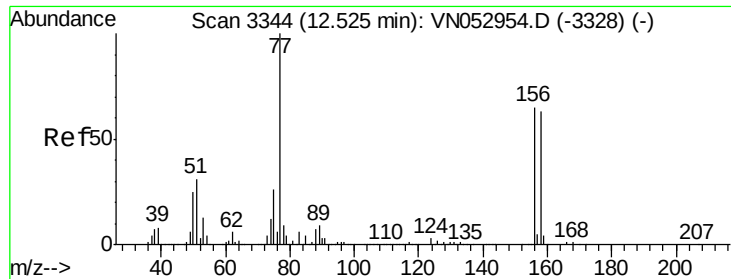
Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Tgt Ion:	75	Resp:	526525
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 52.619 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

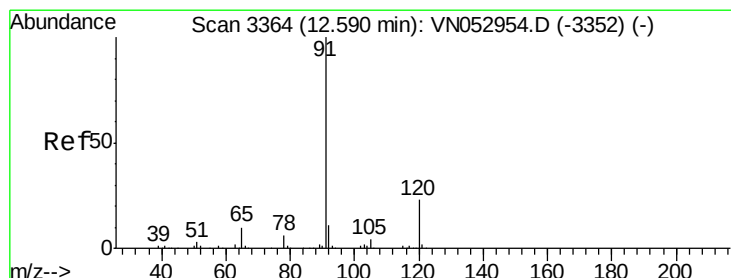
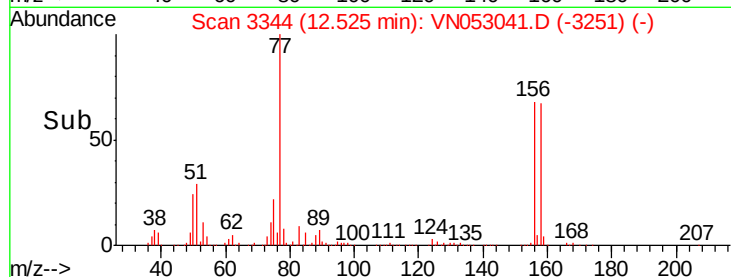
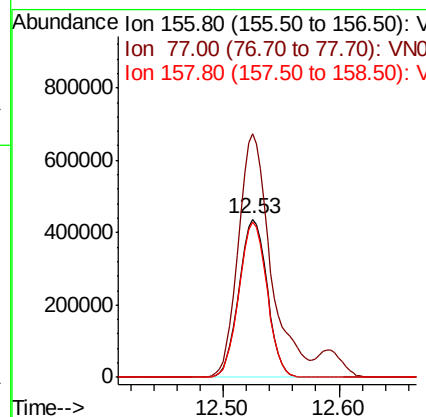
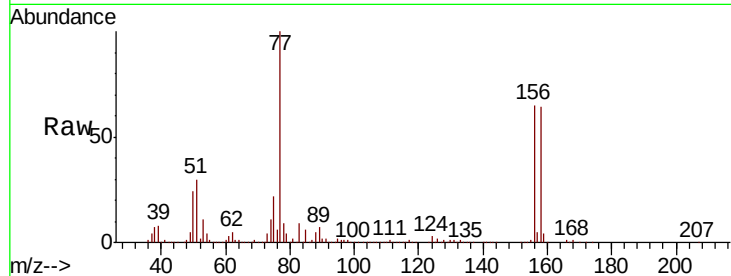
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		735618		
77	177.1	91.3	273.8		
158	97.0	49.0	147.2		

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#78

n-propylbenzene

Concen: 52.154 ug/l

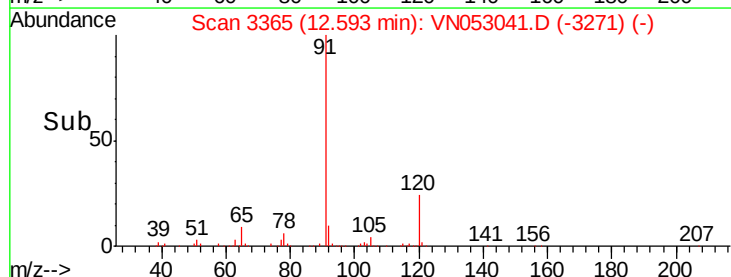
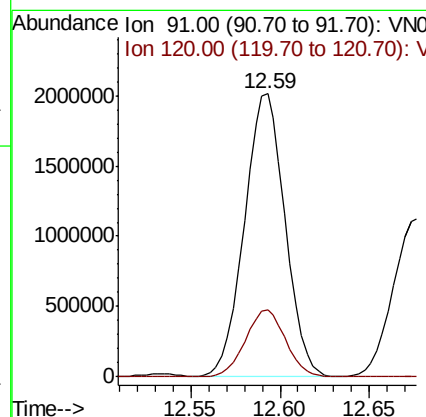
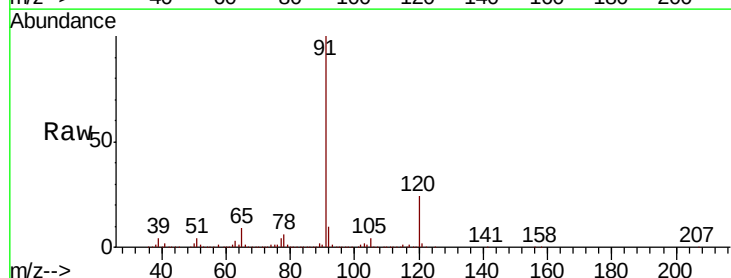
RT: 12.59 min Scan# 3365

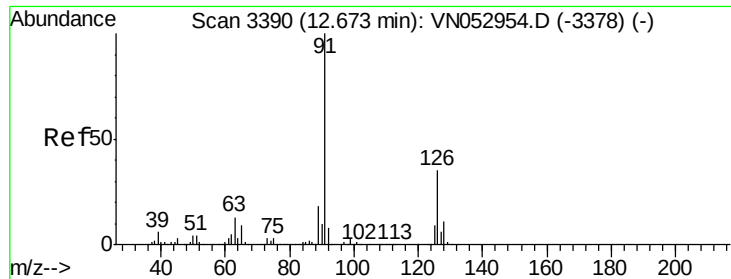
Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		3194532		
120	23.6	11.5	34.5		





#79

2-Chlorotoluene

Concen: 49.044 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1862062

Ion Ratio Lower Upper

91 100

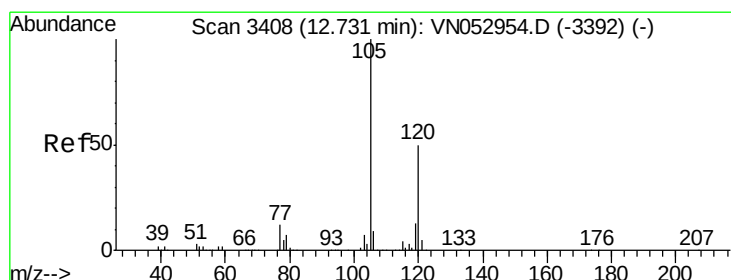
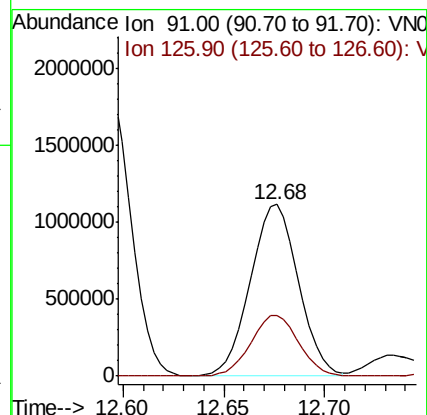
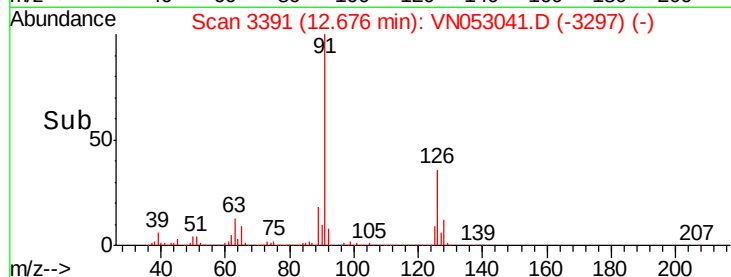
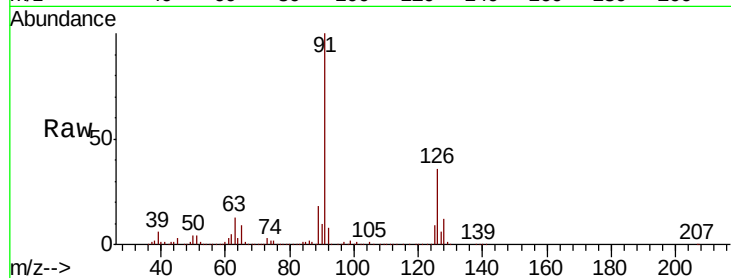
126 35.5 17.4 52.3

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#80

1,3,5-Trimethylbenzene

Concen: 50.788 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053041.D

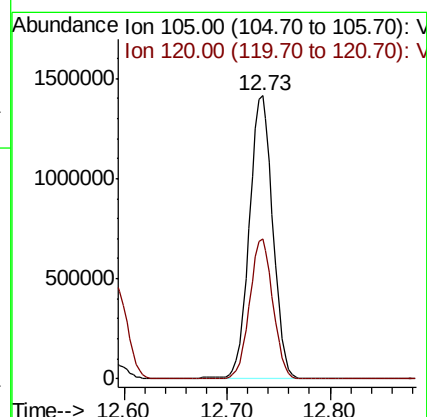
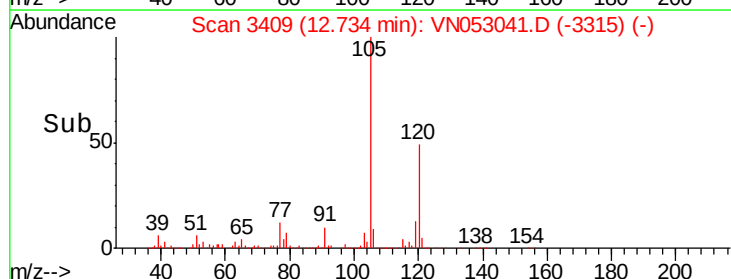
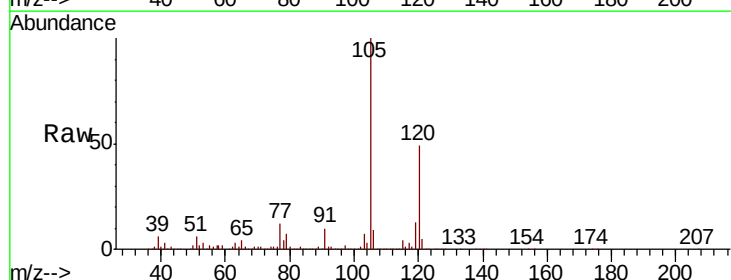
Acq: 20 Dec 2018 5:30

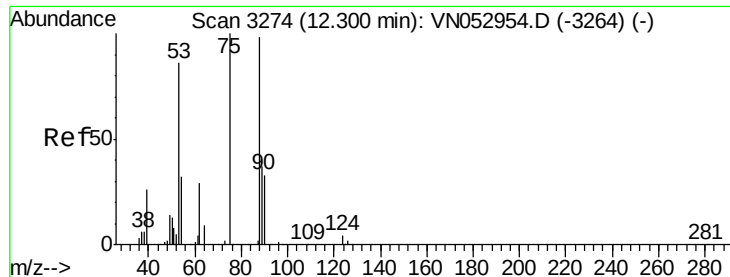
Tgt Ion: 105 Resp: 2226355

Ion Ratio Lower Upper

105 100

120 49.3 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 46.526 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 167032

Ion Ratio Lower Upper

75 100

53 91.0 74.7 112.1

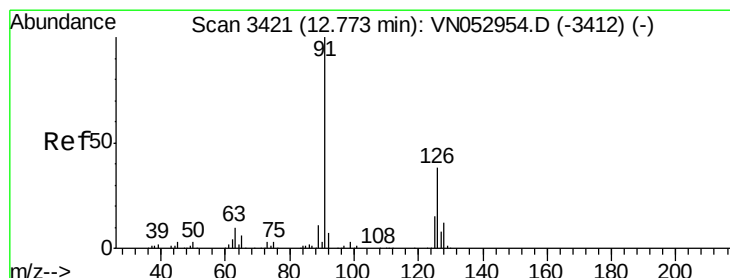
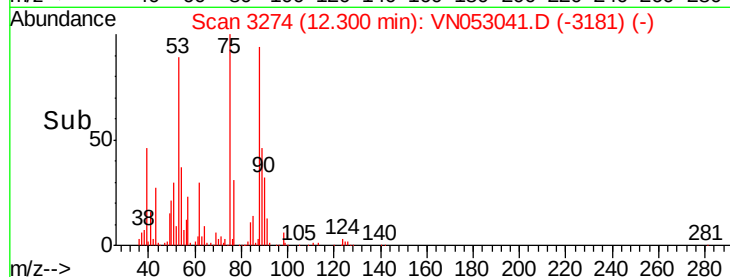
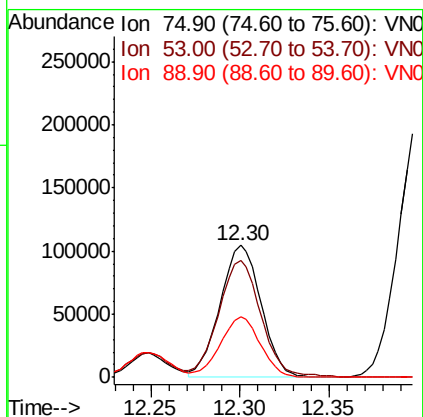
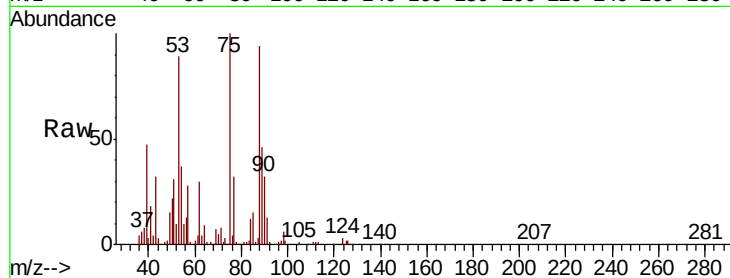
89 44.8 36.1 54.1

Manual Integrations

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#82

4-Chlorotoluene

Concen: 50.927 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN053041.D

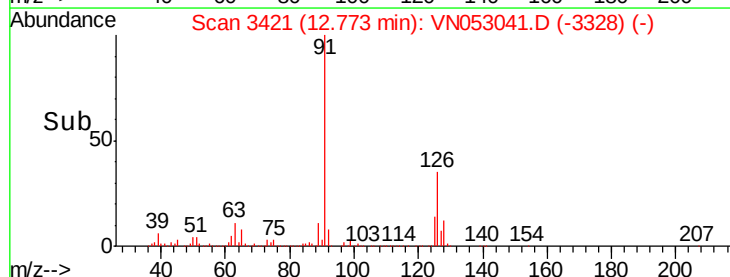
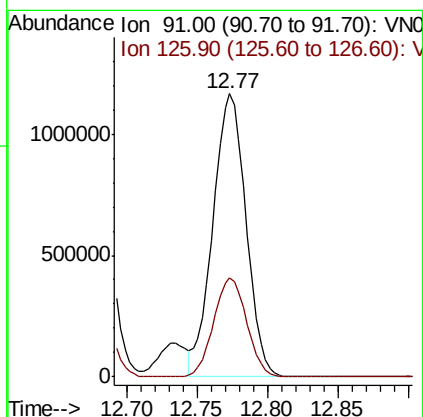
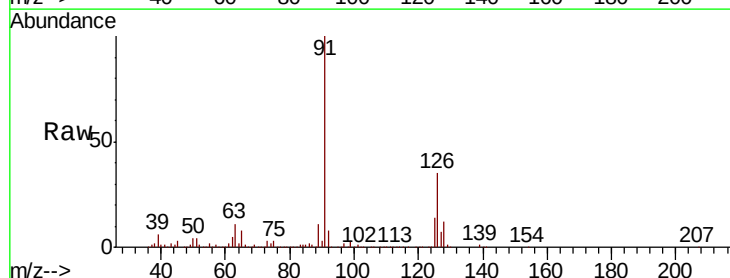
Acq: 20 Dec 2018 5:30

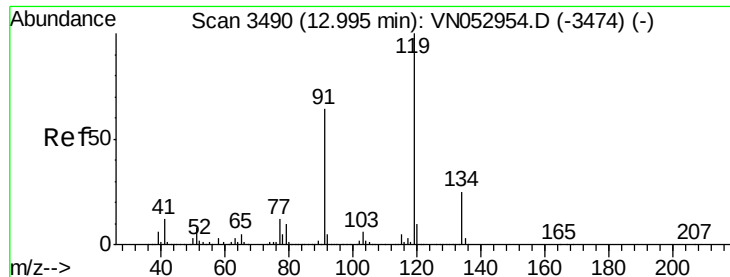
Tgt Ion: 91 Resp: 1892744

Ion Ratio Lower Upper

91 100

126 35.0 17.3 51.7





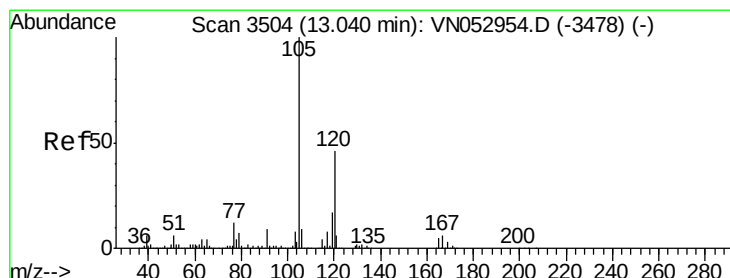
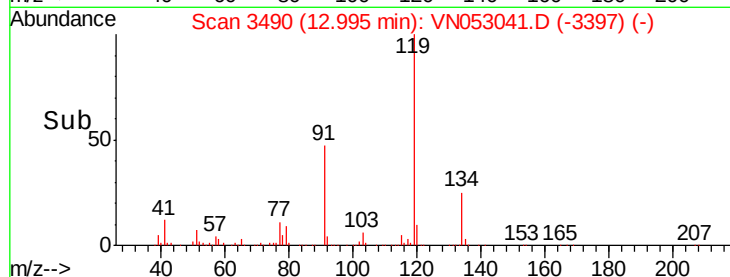
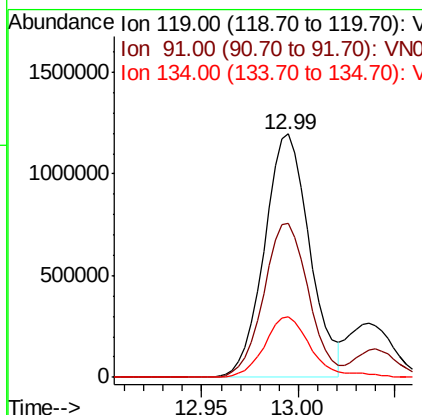
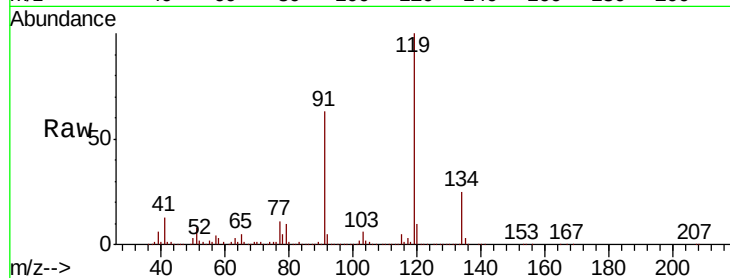
#83
tert-Butylbenzene
Concen: 50.299 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:119 Resp: 1950066
Ion Ratio Lower Upper
119 100
91 63.1 31.9 95.5
134 25.7 12.8 38.4

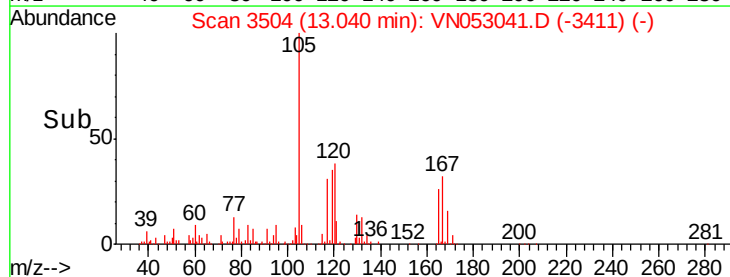
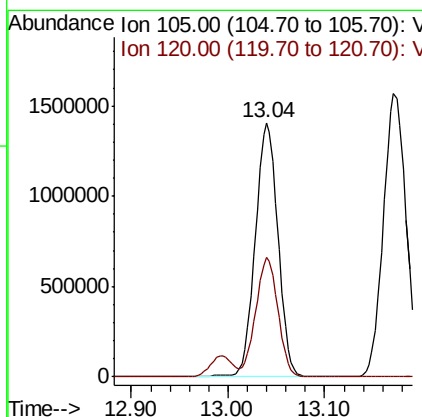
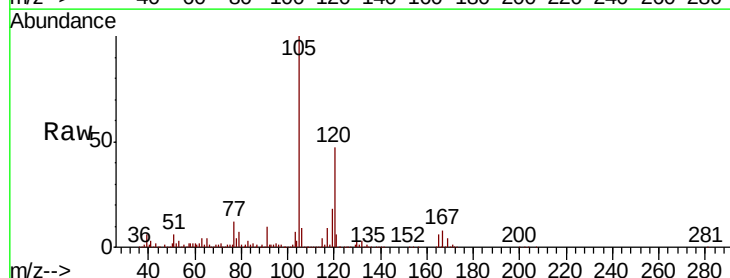
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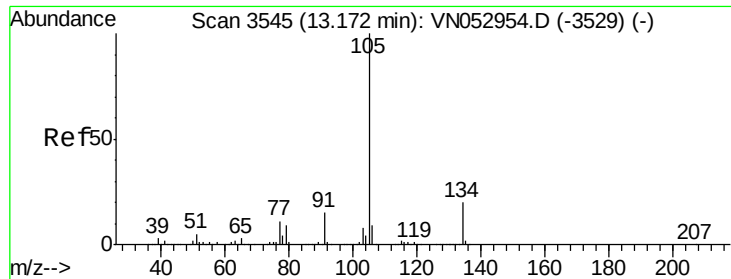
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#84
1,2,4-Trimethylbenzene
Concen: 51.801 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion:105 Resp: 2282765
Ion Ratio Lower Upper
105 100
120 46.5 22.9 68.8





#85

sec-Butylbenzene

Concen: 48.647 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 2551029

Ion Ratio Lower Upper

105 100

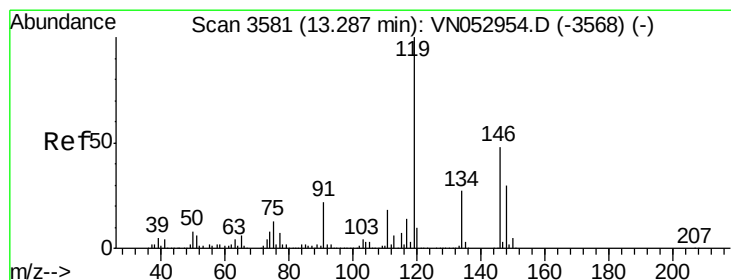
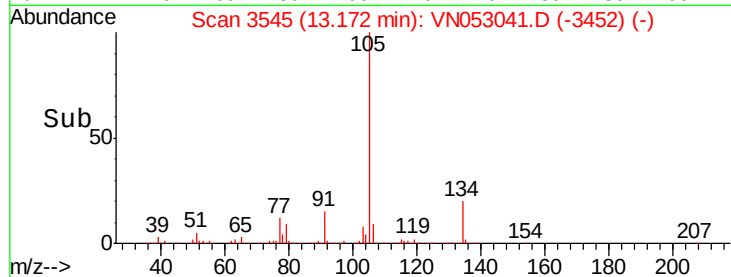
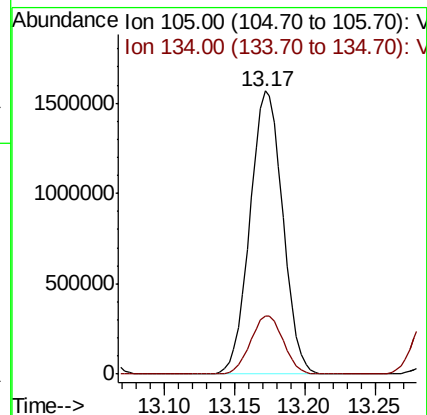
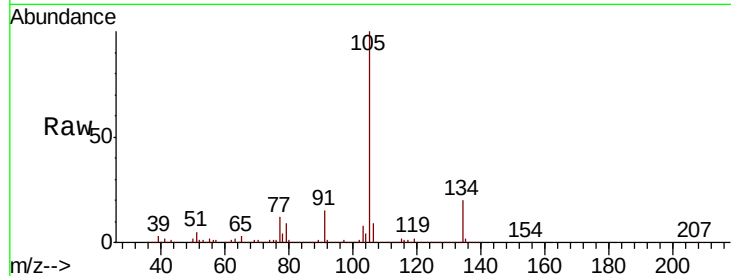
134 20.7 10.1 30.3

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#86

p-Isopropyltoluene

Concen: 48.381 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

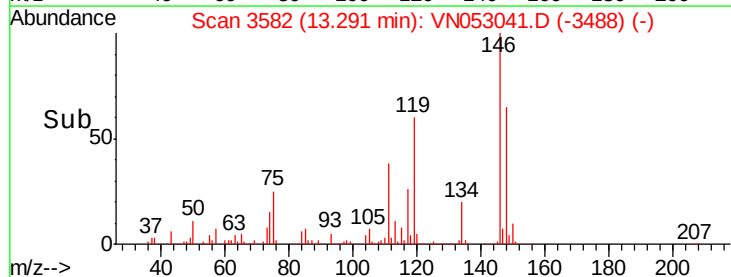
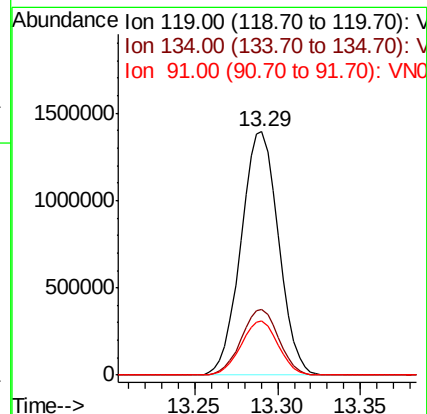
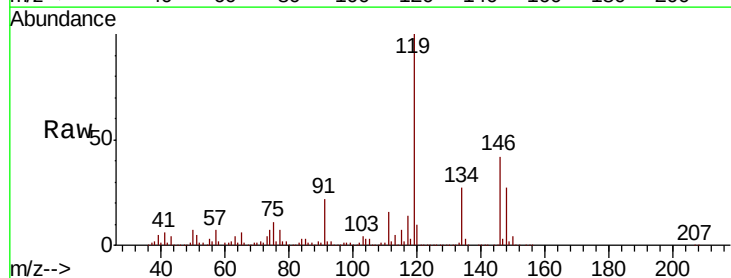
Tgt Ion:119 Resp: 2192235

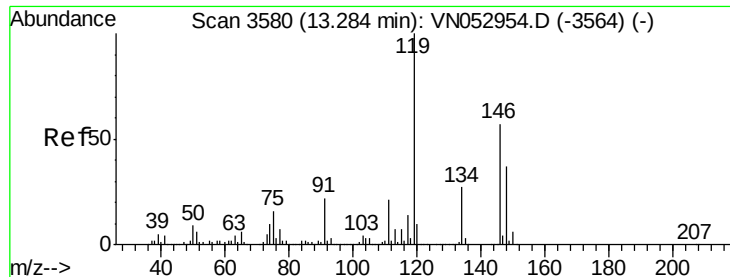
Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.2

91 21.9 11.1 33.3





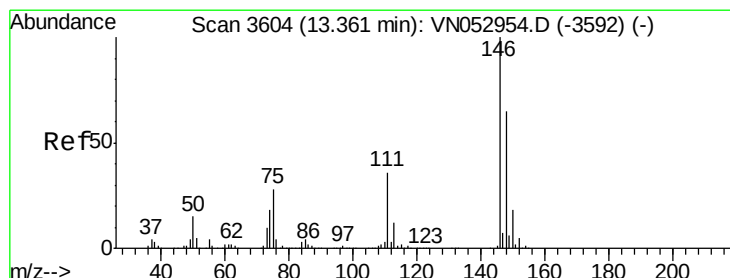
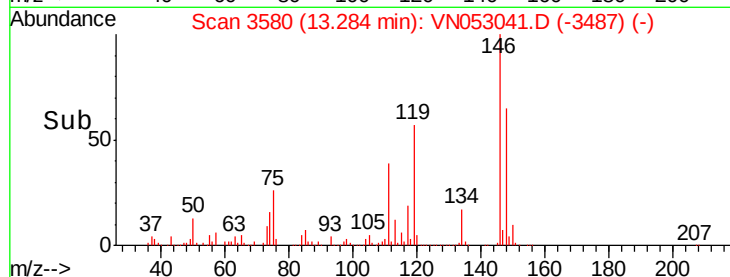
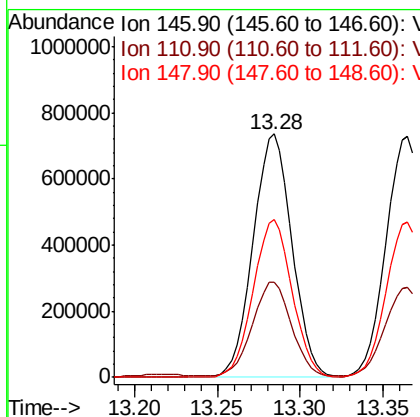
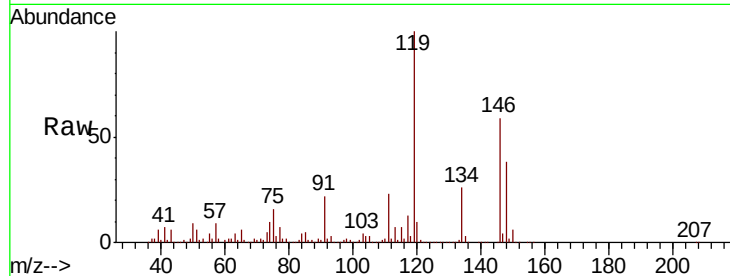
#87
 1,3-Dichlorobenzene
 Concen: 48.709 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:146 Resp: 1205222
 Ion Ratio Lower Upper
 146 100
 111 38.5 19.1 57.1
 148 64.6 32.0 96.0

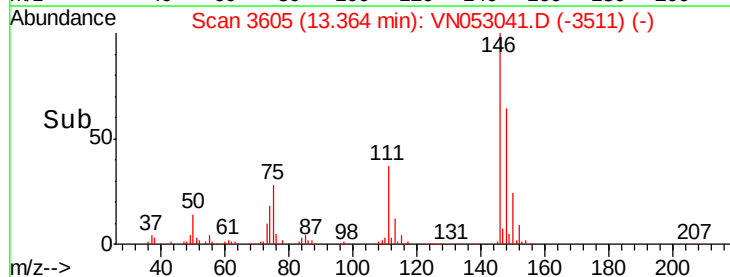
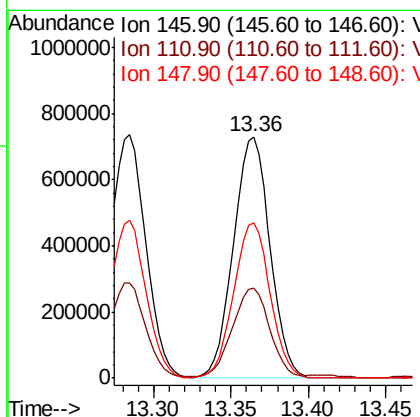
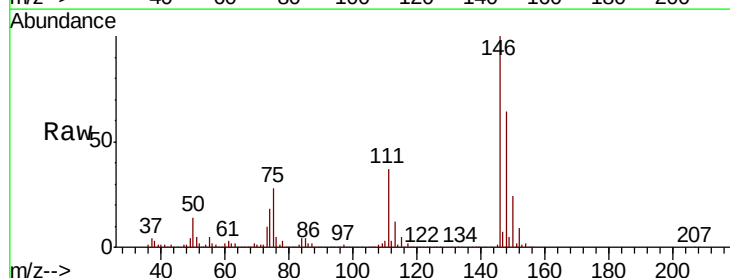
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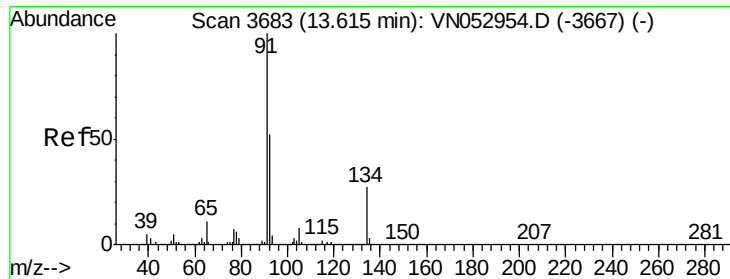
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 47.644 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion:146 Resp: 1193822
 Ion Ratio Lower Upper
 146 100
 111 37.3 18.6 55.8
 148 64.3 32.1 96.5





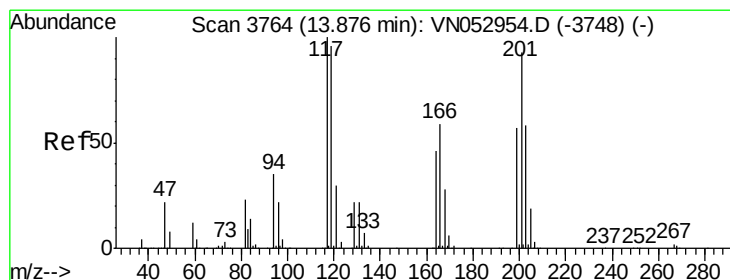
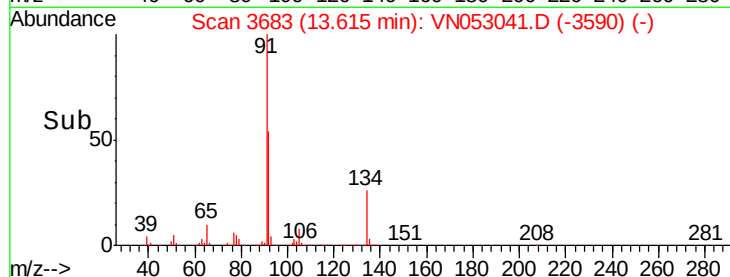
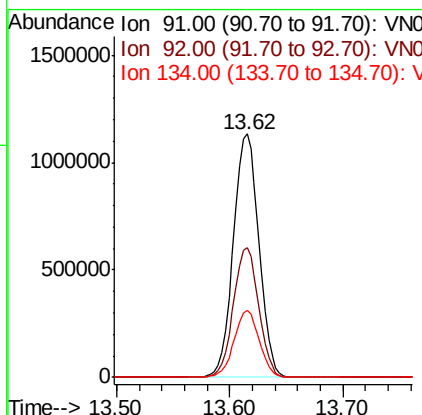
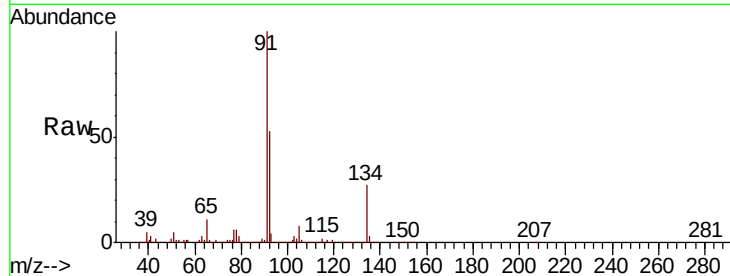
#89
n-Butylbenzene
Concen: 45.565 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1776258
Ion Ratio Lower Upper
91 100
92 52.9 26.3 78.9
134 27.2 13.3 39.8

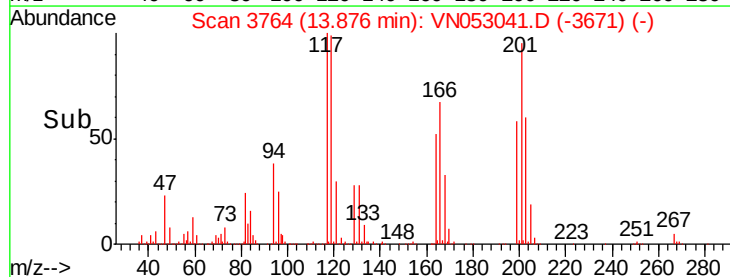
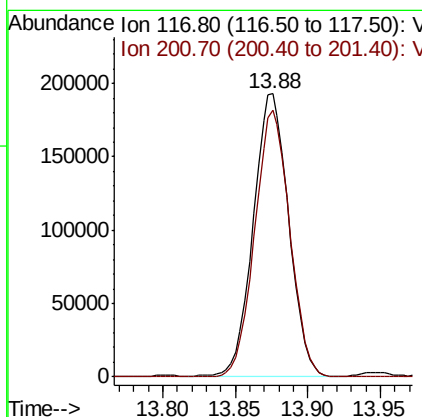
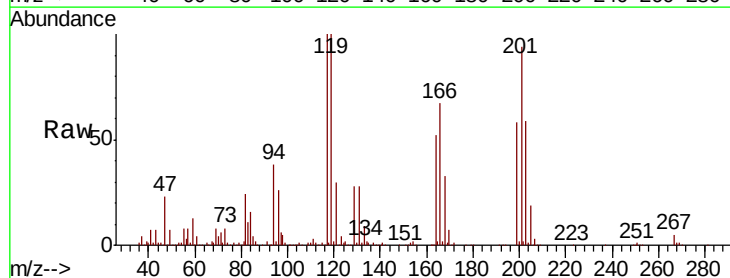
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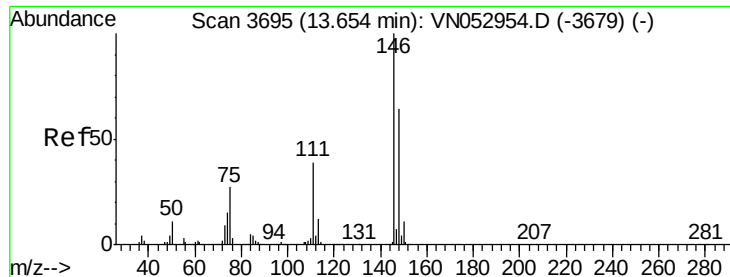
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#90
Hexachloroethane
Concen: 47.128 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN053041.D
Acq: 20 Dec 2018 5:30

Tgt Ion: 117 Resp: 327702
Ion Ratio Lower Upper
117 100
201 93.4 45.7 137.1





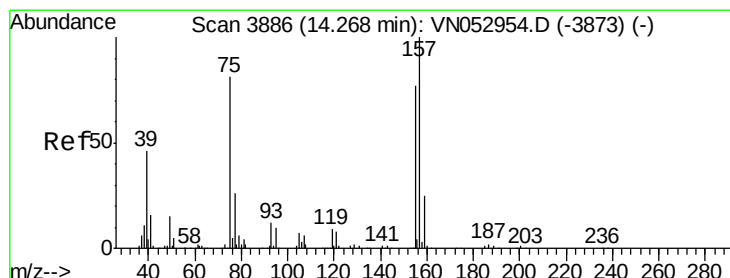
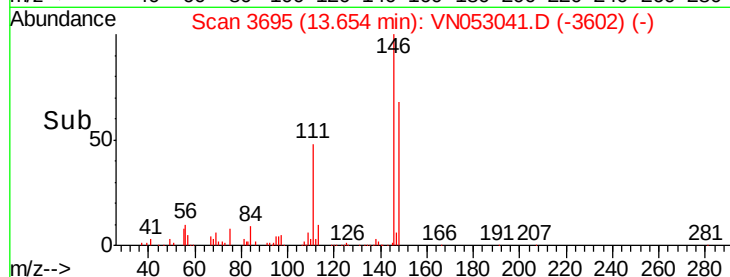
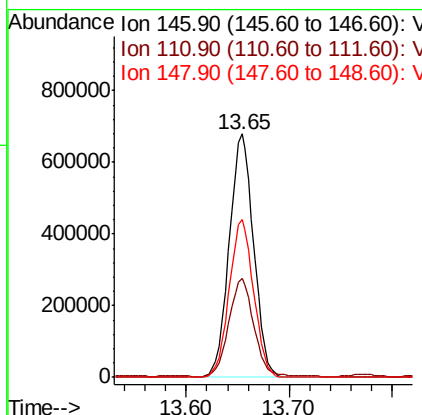
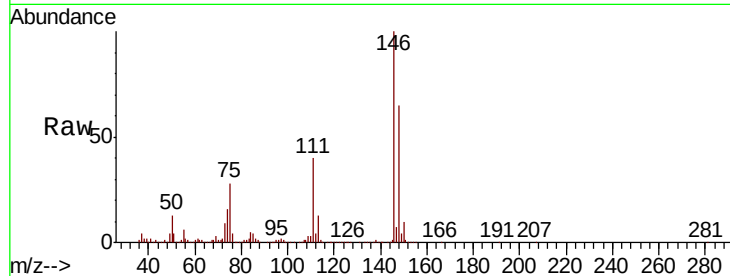
#91
 1,2-Dichlorobenzene
 Concen: 47.867 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	19.7	59.0
148	64.9	32.0	96.0

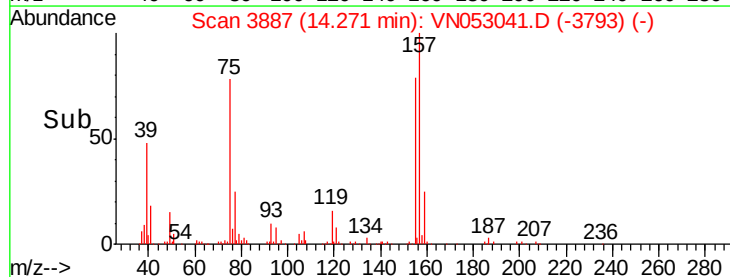
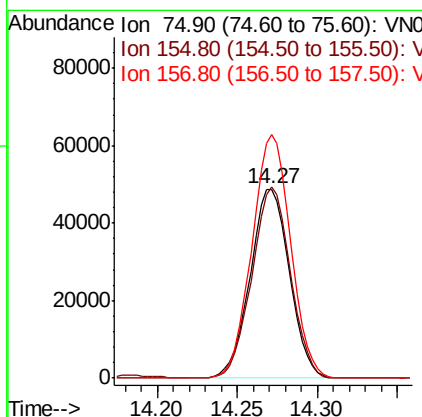
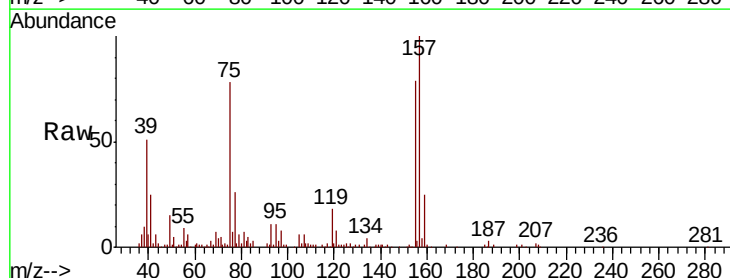
Manual Integrations
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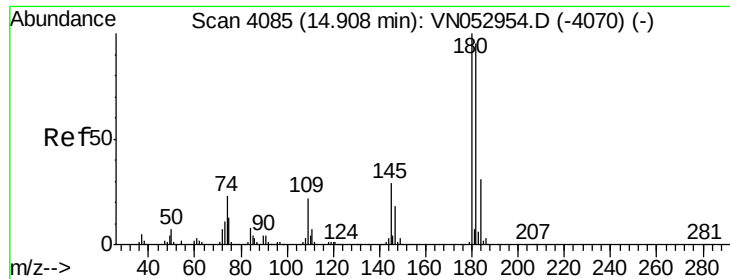
MMDadoda
 12/20/2018 9:33:40 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 45.362 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.8	48.2	144.6
157	126.6	61.2	183.5





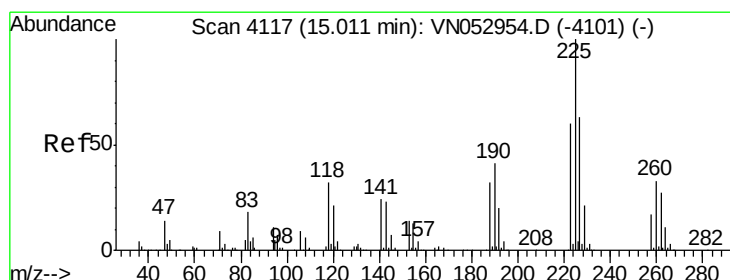
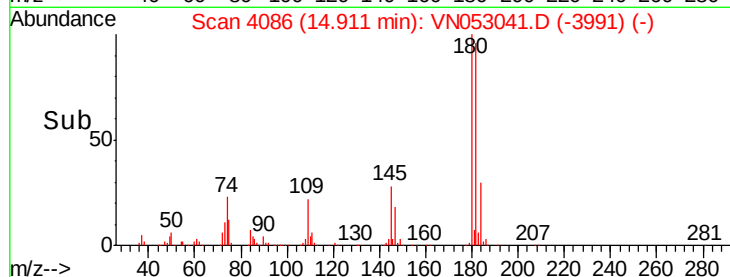
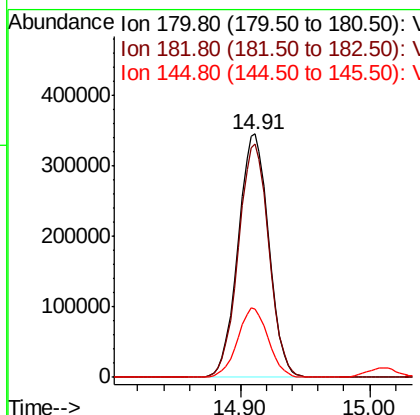
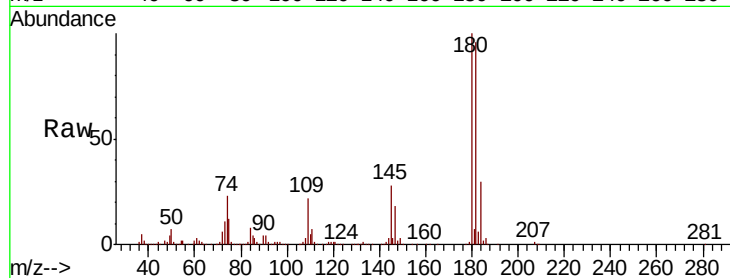
#93
 1,2,4-Trichlorobenzene
 Concen: 46.202 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	569459		
182	95.7	47.8	143.3	
145	28.4	14.2	42.6	

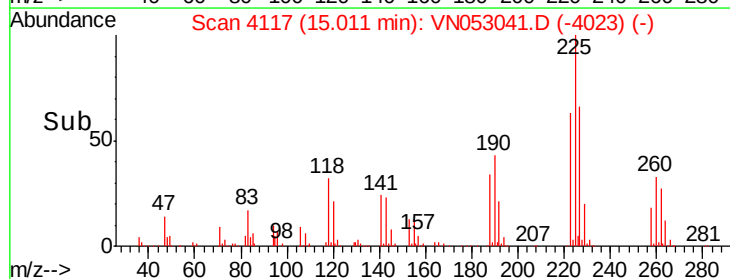
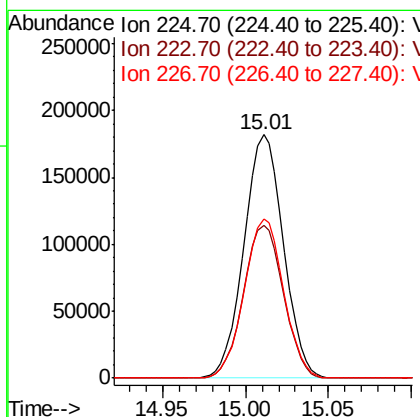
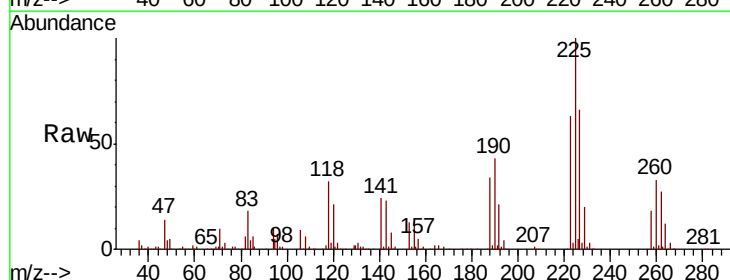
Manual Integrations
 APPROVED

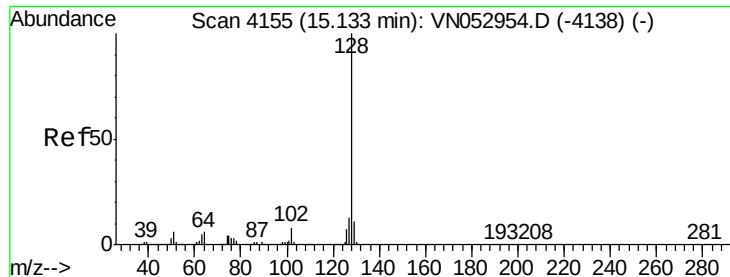
MMDadoda
 12/20/2018 9:33:40 AM



#94
 Hexachlorobutadiene
 Concen: 46.818 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053041.D
 Acq: 20 Dec 2018 5:30

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	300246		
223	63.7	31.5	94.5	
227	65.4	31.9	95.7	





#95

Naphthalene

Concen: 47.203 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:128 Resp: 1273935

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

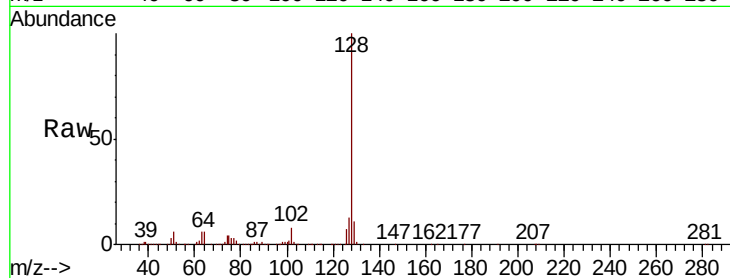
129 10.9 8.6 13.0

Manual Integrations

APPROVED

MMDadoda

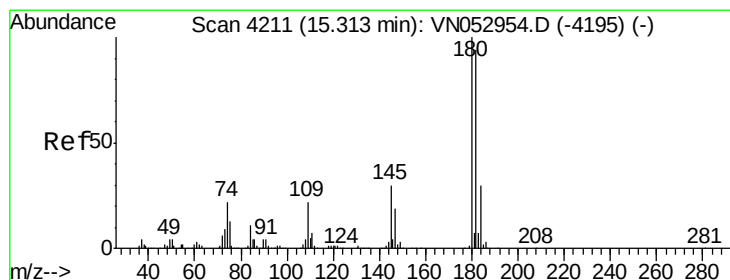
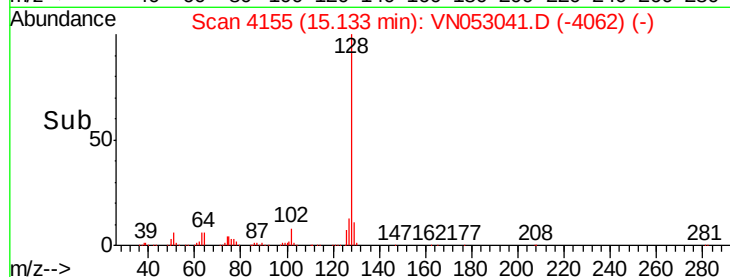
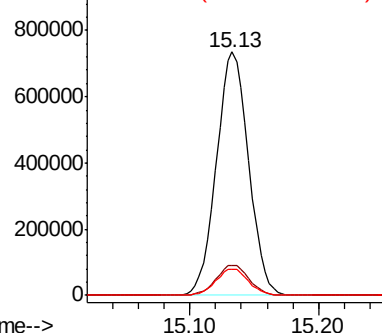
12/20/2018 9:33:40 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 46.192 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053041.D

Acq: 20 Dec 2018 5:30

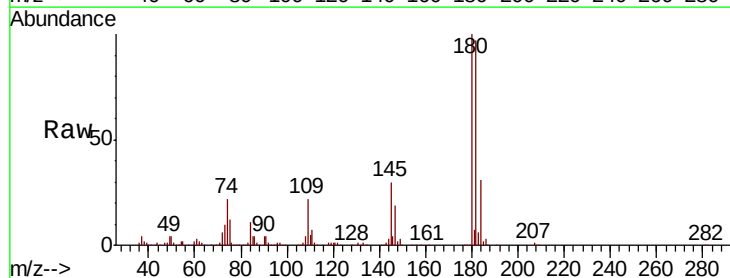
Tgt Ion:180 Resp: 512756

Ion Ratio Lower Upper

180 100

182 96.7 47.9 143.7

145 30.3 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

