

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011519\
 Data File : VN053400.D
 Acq On : 15 Jan 2019 11:02
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:51:02 AM

Quant Time: Jan 16 03:07:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 15 11:52:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	934403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1409270	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1282566	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	627472	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	913534	98.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	197.84%	
35) Dibromofluoromethane	7.59	113	810831	100.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	201.62%	
50) Toluene-d8	10.09	98	3430369	100.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	201.70%	
62) 4-Bromofluorobenzene	12.40	95	1206287	101.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	202.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	750423	99.888	ug/l	99
3) Chloromethane	2.06	50	1046162	97.397	ug/l	99
4) Vinyl Chloride	2.19	62	1024904	98.987	ug/l	100
5) Bromomethane	2.56	94	689523	97.057	ug/l	100
6) Chloroethane	2.70	64	609600	97.381	ug/l	99
7) Trichlorofluoromethane	3.02	101	1342444	99.124	ug/l	99
8) Diethyl Ether	3.41	74	524047	103.026	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	844715	98.486	ug/l	100
10) Methyl Iodide	3.96	142	1339144	102.170	ug/l	100
11) Tert butyl alcohol	4.78	59	240592	532.378	ug/l	100
12) 1,1-Dichloroethene	3.74	96	836570	100.560	ug/l	99
13) Acrolein	3.61	56	453119	489.838	ug/l	99
14) Allyl chloride	4.33	41	1334587	98.763	ug/l	99
15) Acrylonitrile	4.99	53	1564251	525.952	ug/l	99
16) Acetone	3.81	43	1045236	482.375	ug/l	99
17) Carbon Disulfide	4.06	76	2550102	101.365	ug/l	99
18) Methyl Acetate	4.32	43	729215	99.886	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	2311853	104.588	ug/l	99
20) Methylene Chloride	4.55	84	956015	96.637	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	892763	100.378	ug/l	100
22) Diisopropyl ether	5.95	45	2871504	101.792	ug/l	98
23) Vinyl Acetate	5.90	43	9278463	535.066	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1658412	99.446	ug/l	100
25) 2-Butanone	6.83	43	1727356	517.304	ug/l	100
26) 2,2-Dichloropropane	6.82	77	1275401	101.294	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	1028967	101.175	ug/l	99
28) Bromochloromethane	7.19	49	725233	98.716	ug/l	99
29) Tetrahydrofuran	7.21	42	1140682	524.742	ug/l	99
30) Chloroform	7.37	83	1618745	99.627	ug/l	99
31) Cyclohexane	7.65	56	1599442	98.772	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	1397590	101.399	ug/l	100
36) 1,1-Dichloropropene	7.79	75	1311933	102.220	ug/l	99
37) Ethyl Acetate	6.93	43	774926	104.083	ug/l	99
38) Carbon Tetrachloride	7.78	117	1232908	101.467	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1646022	103.764	ug/l	99
40) Benzene	8.04	78	3898070	99.947	ug/l	100
41) Methacrylonitrile	7.17	41	431372	93.696	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	1131416	99.577	ug/l	100
43) Isopropyl Acetate	8.16	43	1412892	101.910	ug/l	98
44) Trichloroethene	8.83	130	1082214	100.060	ug/l	100
45) 1,2-Dichloropropane	9.12	63	1036435	100.330	ug/l	99
46) Dibromomethane	9.21	93	589275	99.286	ug/l	99
47) Bromodichloromethane	9.40	83	1259459	100.906	ug/l	100
48) Methyl methacrylate	9.20	41	729148	106.361	ug/l	100
49) 1,4-Dioxane	9.20	88	136998	2046.231	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	3843960	530.347	ug/l	100
52) Toluene	10.16	92	2452795	101.301	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	1360953	107.575	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	1540900	103.901	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	849081	101.714	ug/l	99
56) Ethyl methacrylate	10.43	69	1174251	97.098	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1475408	102.171	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	3113645	533.161	ug/l	100
59) 2-Hexanone	10.75	43	2633694	517.627	ug/l	99
60) Dibromochloromethane	10.90	129	990550	104.620	ug/l	99
61) 1,2-Dibromoethane	11.00	107	884349	104.749	ug/l	99
64) Tetrachloroethene	10.63	164	1173468	97.087	ug/l	100
65) Chlorobenzene	11.43	112	2739220	100.901	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	970418	102.752	ug/l	100
67) Ethyl Benzene	11.51	91	4752820	102.728	ug/l	100
68) m/p-Xylenes	11.62	106	3617646	207.100	ug/l	99
69) o-Xylene	11.95	106	1752618	103.256	ug/l	100
70) Styrene	11.96	104	2920120	106.002	ug/l	100
71) Bromoform	12.13	173	702312	108.018	ug/l	100
73) Isopropylbenzene	12.25	105	4662423	101.467	ug/l	99
74) N-amyl acetate	12.07	43	1319112	107.689	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	983126	102.016	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	856418m	108.404	ug/l	
77) Bromobenzene	12.53	156	1215150	100.359	ug/l	99
78) n-propylbenzene	12.59	91	5411930	102.605	ug/l	99
79) 2-Chlorotoluene	12.67	91	3125935	99.984	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	3834904	102.576	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	328786	98.062	ug/l	98
82) 4-Chlorotoluene	12.77	91	3243054	101.718	ug/l	100
83) tert-Butylbenzene	12.99	119	3407100	103.182	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	3882335	102.989	ug/l	100
85) sec-Butylbenzene	13.17	105	4642964	102.526	ug/l	99
86) p-Isopropyltoluene	13.29	119	4109443	104.510	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	2170241	101.897	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	2133161	99.847	ug/l	100
89) n-Butylbenzene	13.62	91	3549138	105.889	ug/l	100
90) Hexachloroethane	13.88	117	665248	107.874	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1961440	100.101	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	127344	104.215	ug/l	98

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ClientSampleId :
VSTDICC100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	850104	95.654	ug/l	99
94) Hexachlorobutadiene	15.01	225	581360	95.111	ug/l	98
95) Naphthalene	15.13	128	1513790	95.874	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	625972	95.127	ug/l	99

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

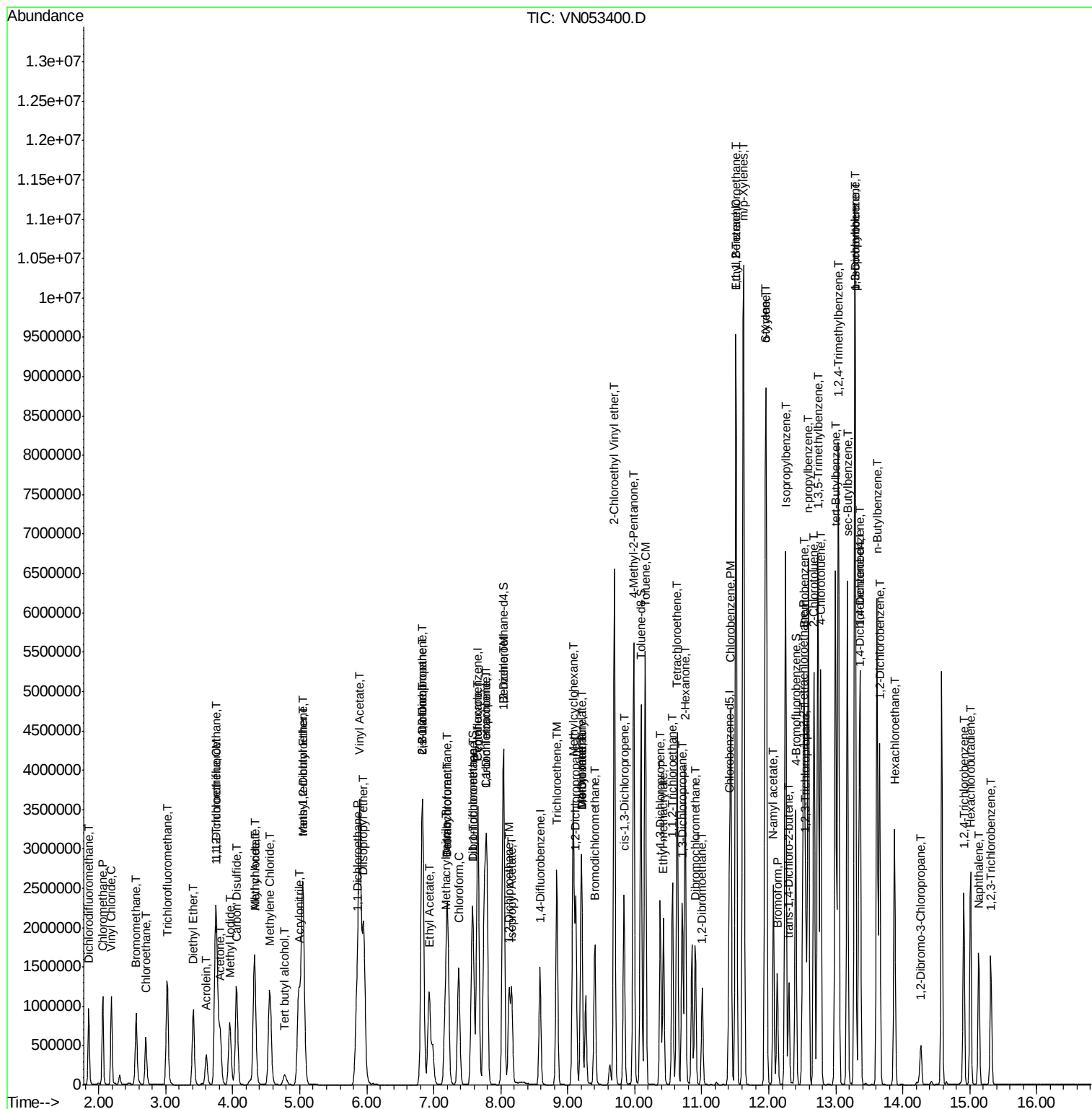
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Data File : VN053400.D
Acq On : 15 Jan 2019 11:02
Operator : JC/SP
Sample : VSTDIC100
Misc : 5.00mL/MSVOA N/WATER
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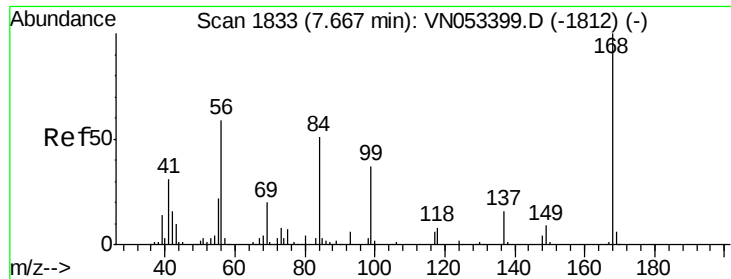
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Manual Integrations
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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: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 934403

Ion Ratio Lower Upper

168 100

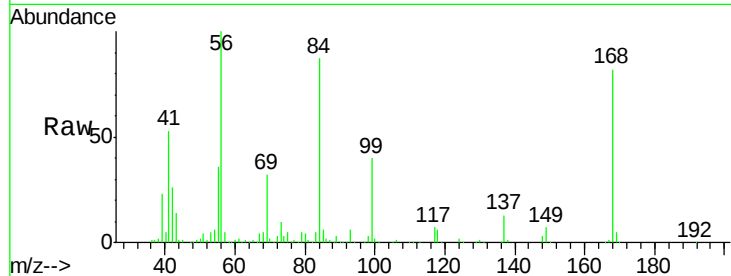
99 48.8 39.1 58.7

Manual Integrations

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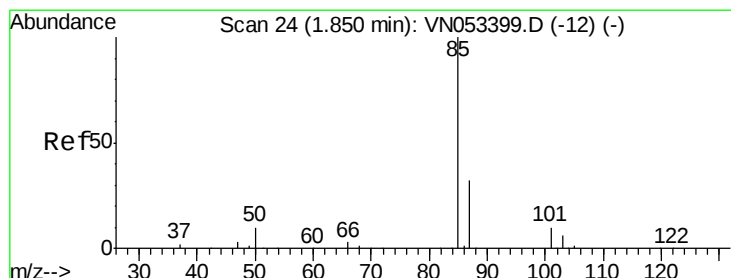
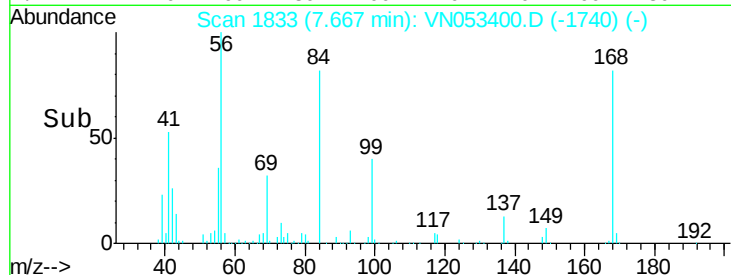
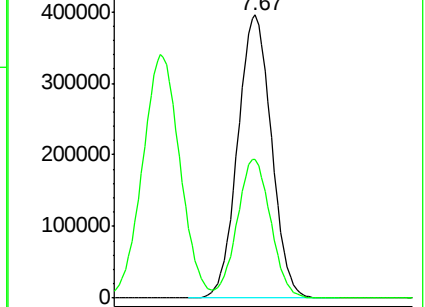
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 99.888 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053400.D

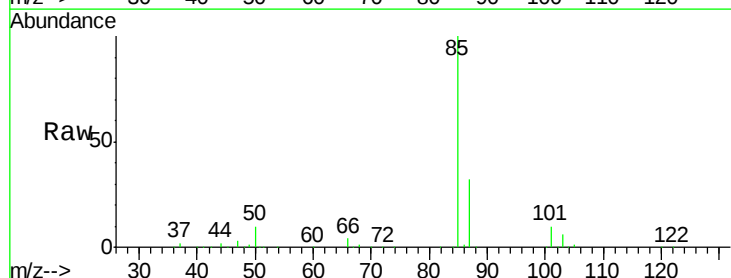
Acq: 15 Jan 2019 11:02

Tgt Ion: 85 Resp: 750423

Ion Ratio Lower Upper

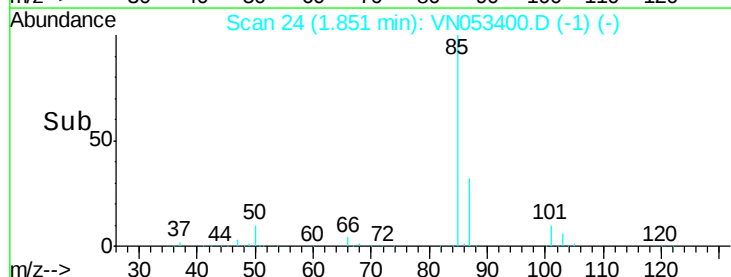
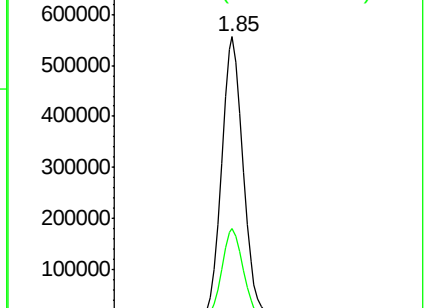
85 100

87 32.5 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 97.397 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 1046162

Ion Ratio Lower Upper

50 100

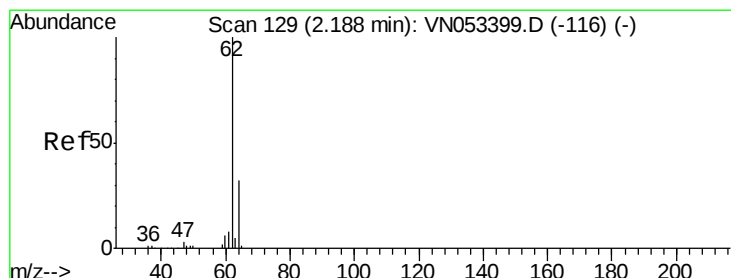
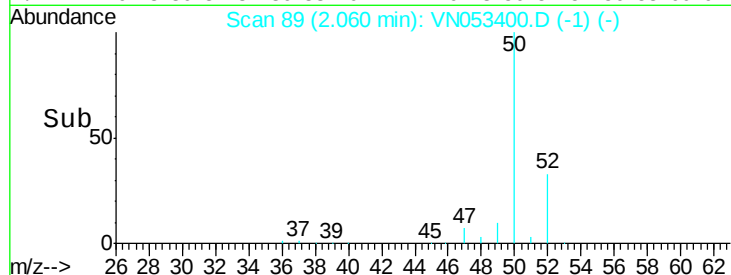
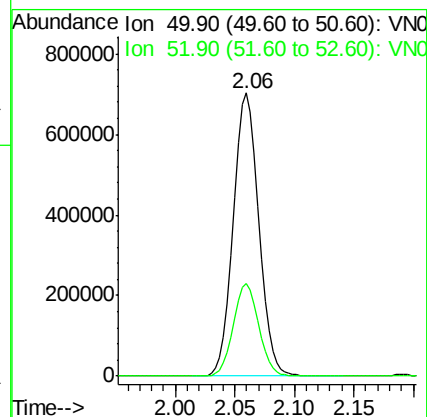
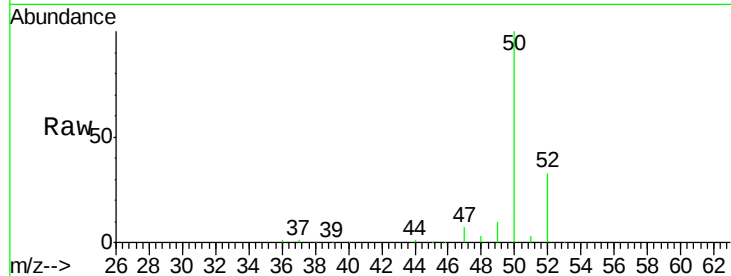
52 32.6 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 98.987 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053400.D

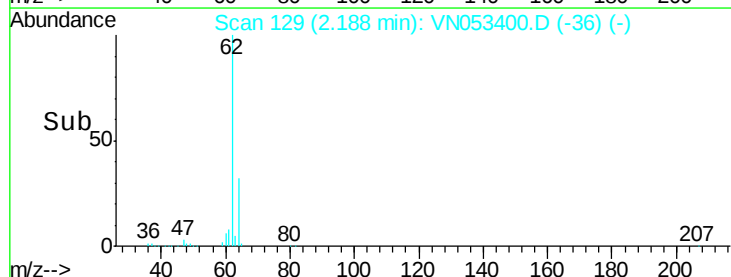
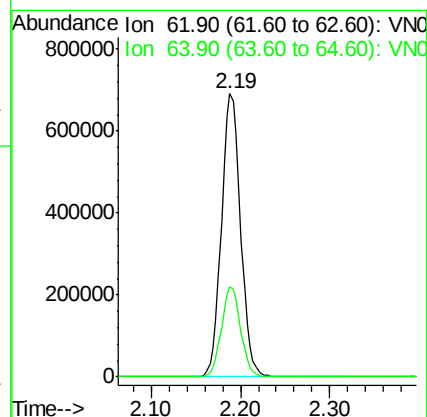
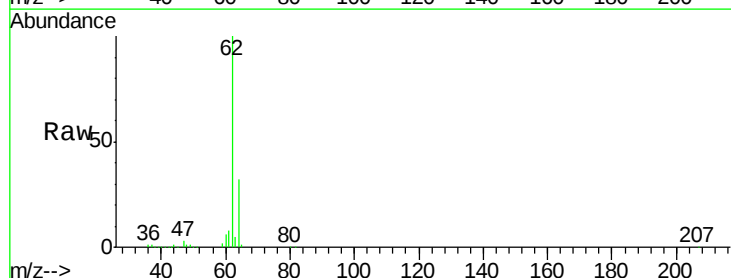
Acq: 15 Jan 2019 11:02

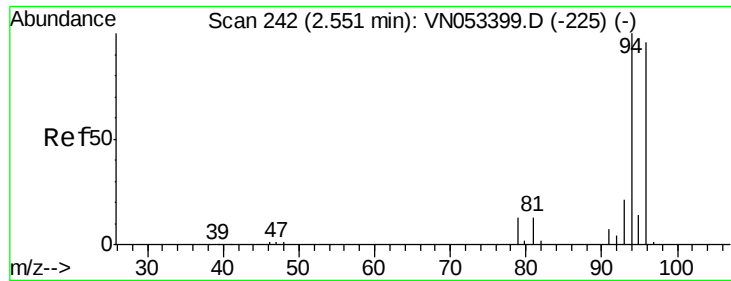
Tgt Ion: 62 Resp: 1024904

Ion Ratio Lower Upper

62 100

64 31.7 25.6 38.4





#5

Bromomethane

Concen: 97.057 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.01 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Tot Ion: 94 Resp: 689523

Ion Ratio Lower Upper

94 100

96 93.7 74.9 112.3

Instrument :

MSVOA_N

ClientSampleId :

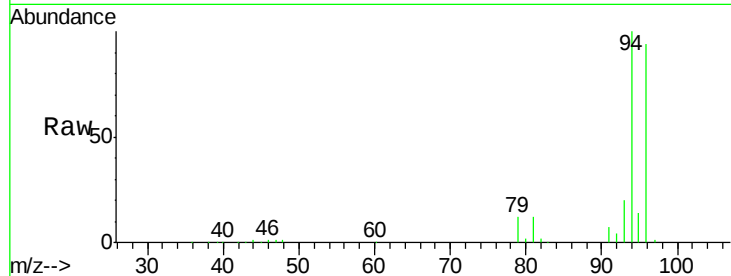
VSTDIC100

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

300000

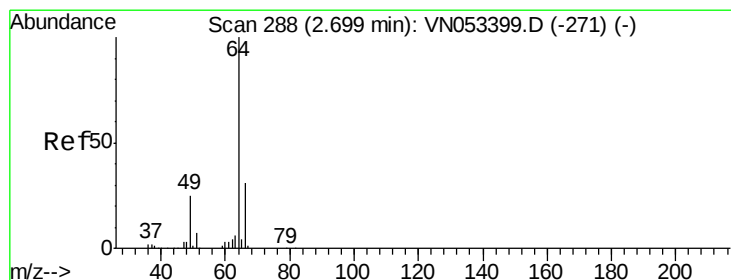
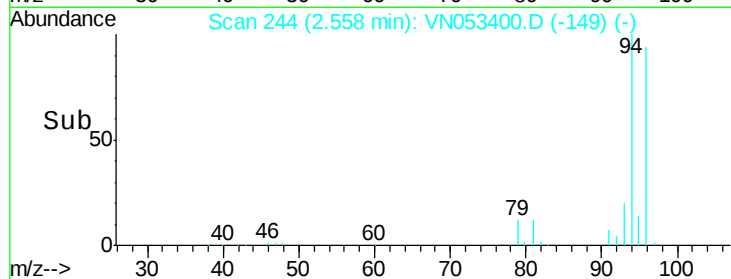
200000

100000

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Time-->

2.50 2.60 2.70



#6

Chloroethane

Concen: 97.381 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN053400.D

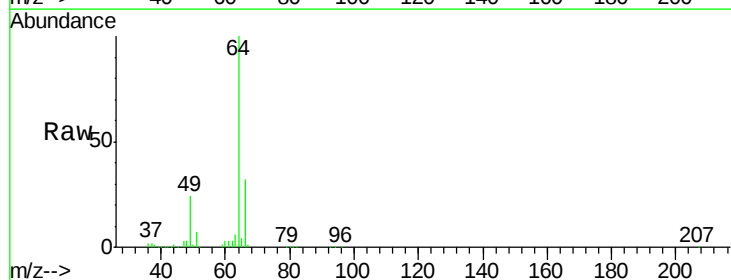
Acq: 15 Jan 2019 11:02

Tgt Ion: 64 Resp: 609600

Ion Ratio Lower Upper

64 100

66 31.5 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.70

300000

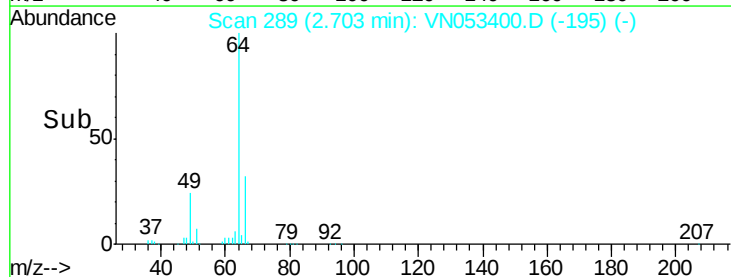
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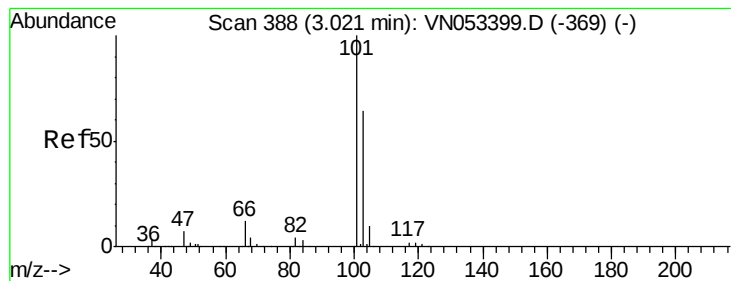
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Time-->

2.60 2.70 2.80





#7

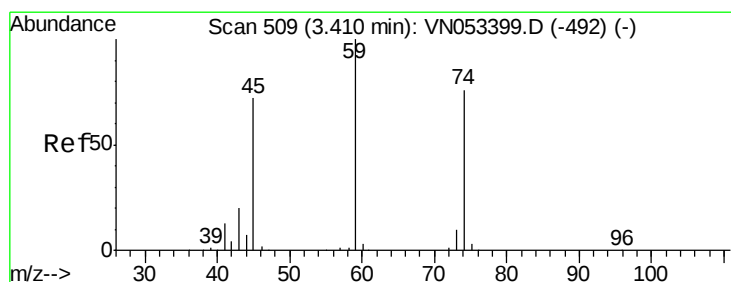
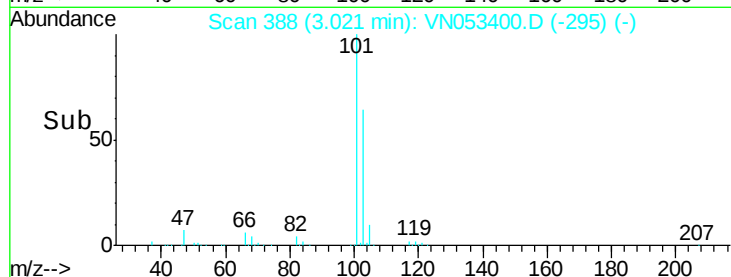
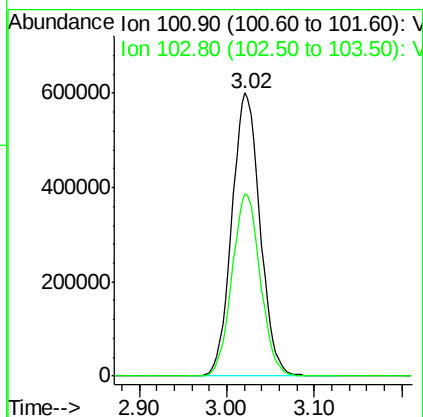
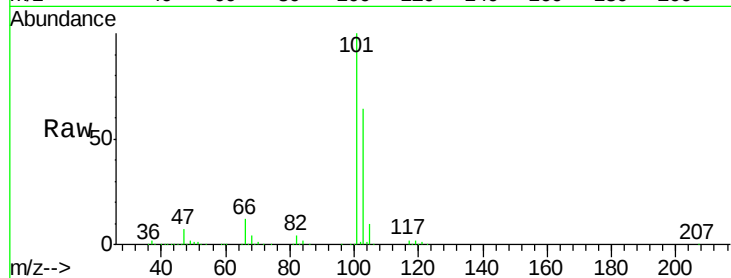
Trichlorofluoromethane
Concen: 99.124 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
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ClientSampleId :
VSTDIC100

Tot Ion:101 Resp: 1342444
Ion Ratio Lower Upper
101 100
103 64.2 52.1 78.1

Manual Integrations
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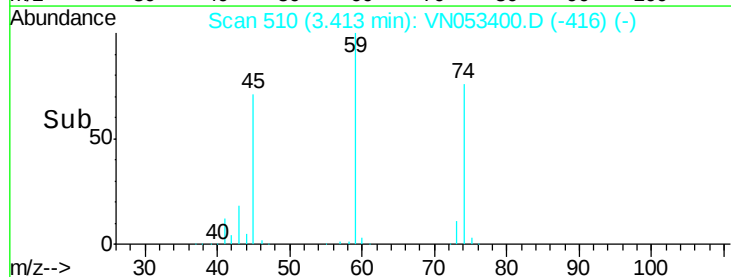
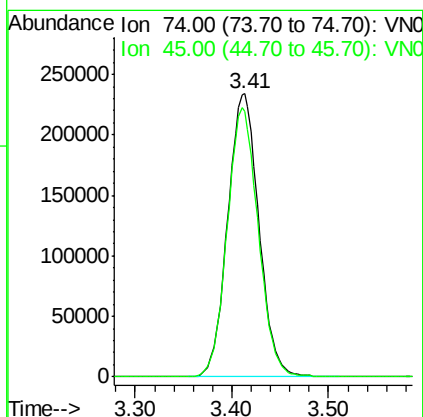
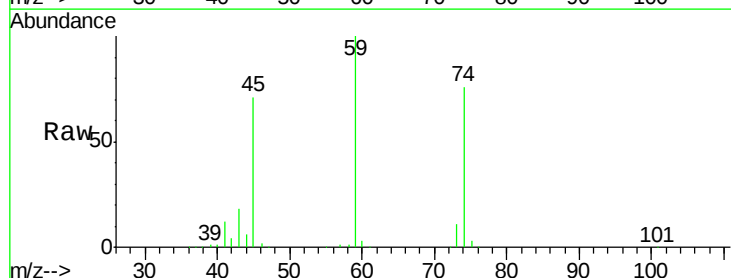
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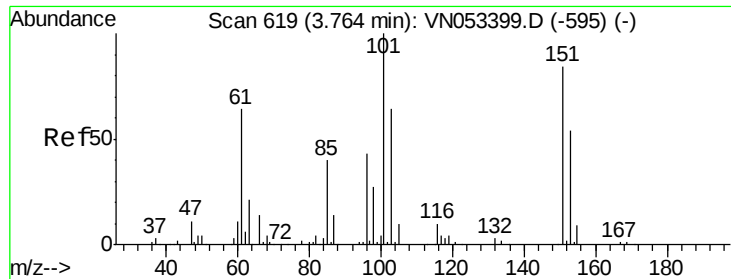


#8

Diethyl Ether
Concen: 103.026 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 74 Resp: 524047
Ion Ratio Lower Upper
74 100
45 94.7 48.3 144.9





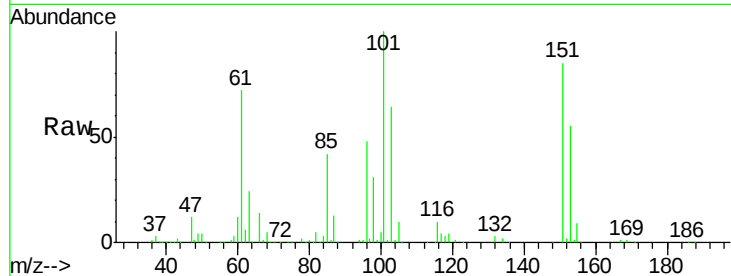
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 98.486 ug/l
 RT: 3.76 min Scan# 619
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

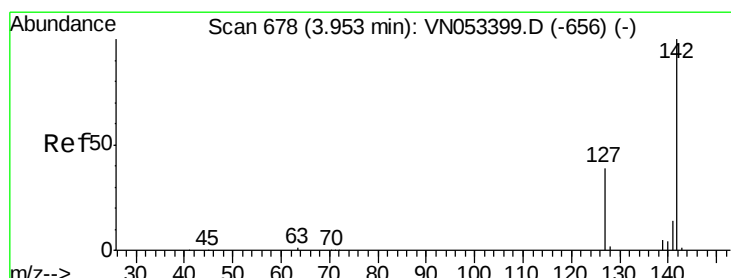
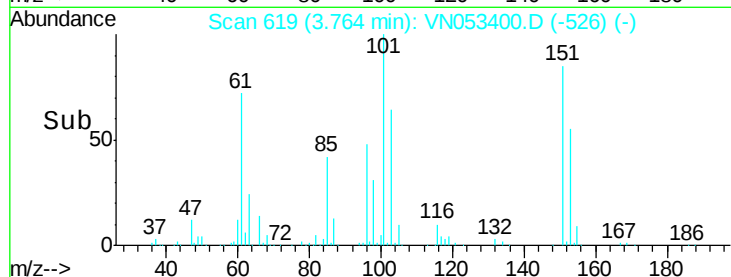
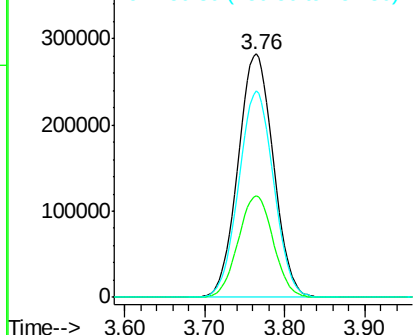
Tot Ion	Ratio	Resp	Lower	Upper
101	100	844715		
85	41.4	33.3	49.9	
151	84.1	67.0	100.4	

Manual Integrations
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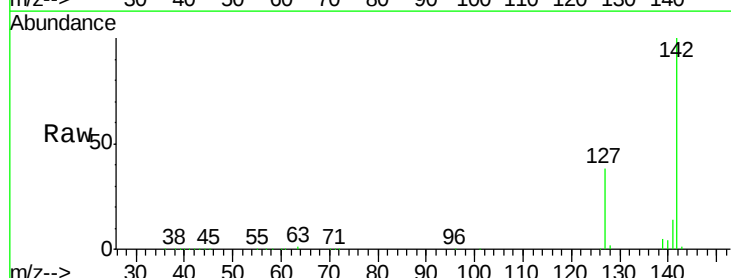


Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 84.90 (84.60 to 85.60): V
 Ion 150.80 (150.50 to 151.50): V

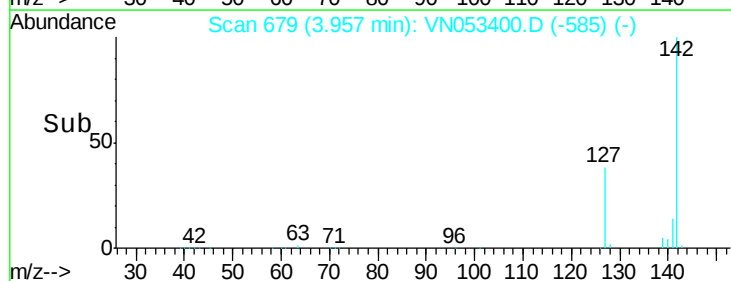
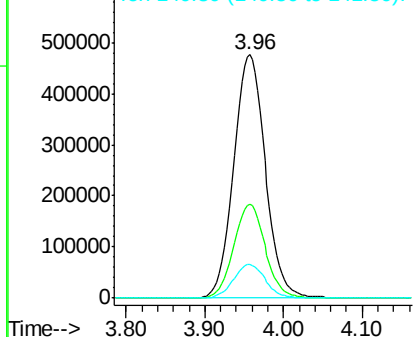


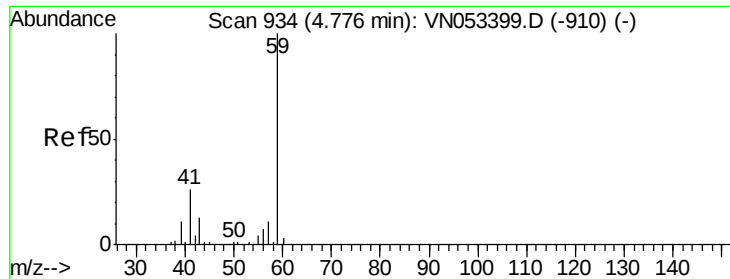
#10
 Methyl Iodide
 Concen: 102.170 ug/l
 RT: 3.96 min Scan# 679
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	1339144		
127	38.4	30.9	46.3	
141	14.0	11.2	16.8	



Abundance Ion 141.80 (141.50 to 142.50): V
 Ion 126.80 (126.50 to 127.50): V
 Ion 140.80 (140.50 to 141.50): V





#11

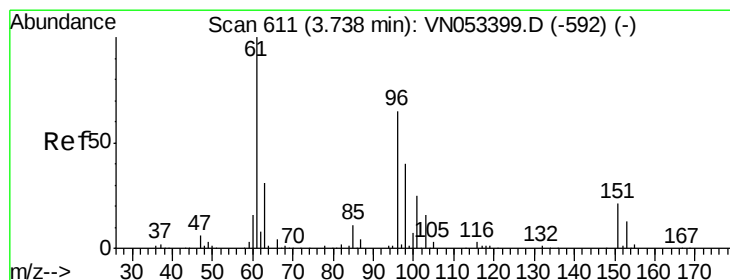
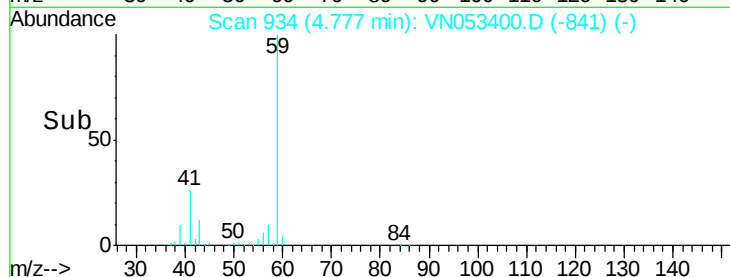
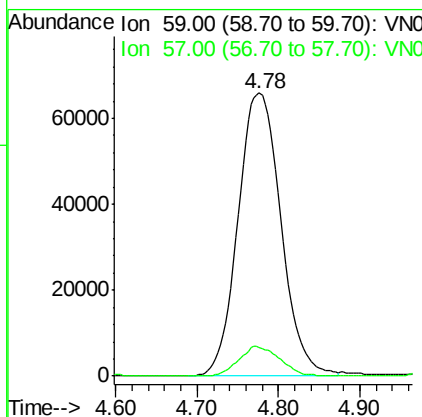
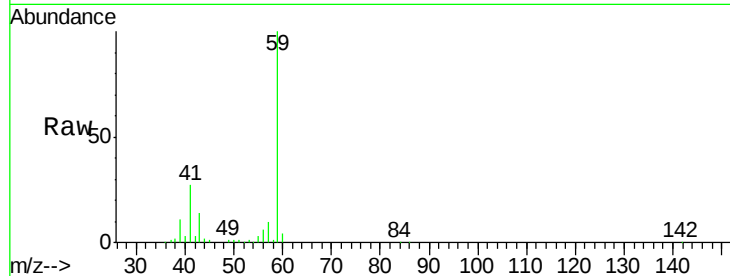
Tert butyl alcohol
Concen: 532.378 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.0	12.0

Manual Integrations
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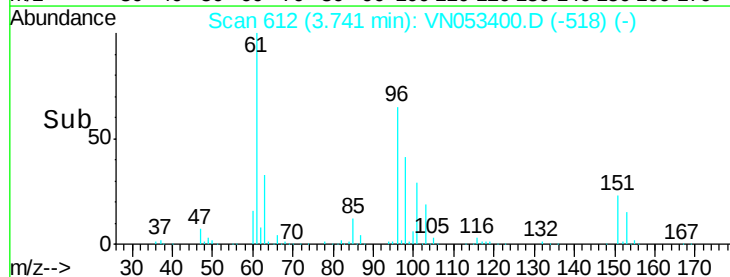
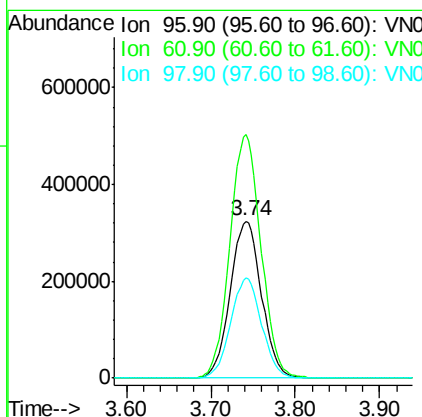
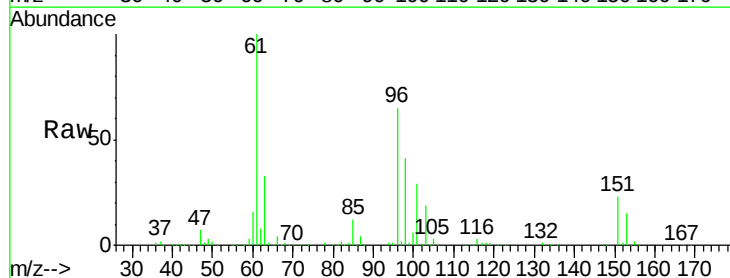
MMDadoda
1/16/2019 9:51:02 AM

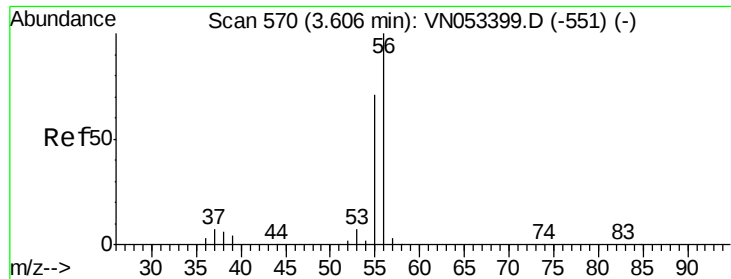


#12

1,1-Dichloroethene
Concen: 100.560 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.9	123.2	184.8
98	63.8	50.5	75.7





#13

Acrolein

Concen: 489.838 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 453119

Ion Ratio Lower Upper

56 100

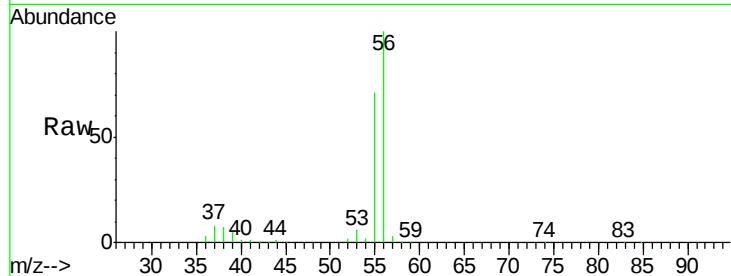
55 71.4 56.3 84.5

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

200000

150000

100000

50000

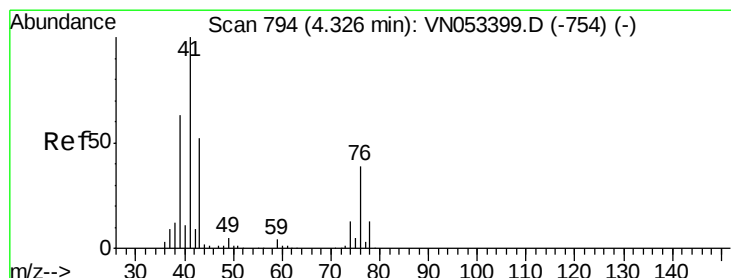
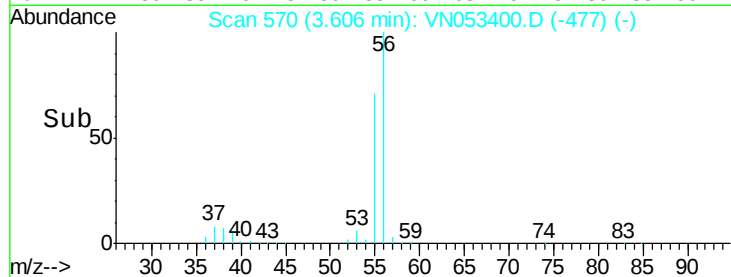
0

3.50

3.60

3.70

Time-->



#14

Allyl chloride

Concen: 98.763 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

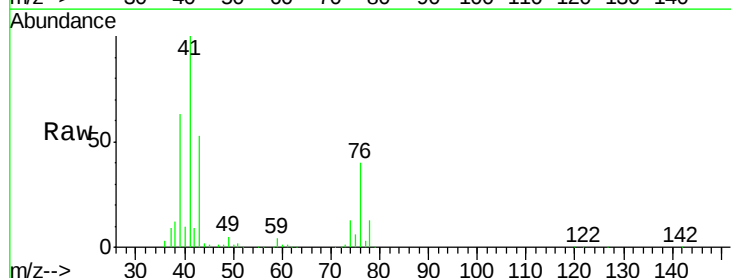
Tgt Ion: 41 Resp: 1334587

Ion Ratio Lower Upper

41 100

39 64.1 51.9 77.9

76 39.4 31.2 46.8



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

600000

500000

400000

300000

200000

100000

0

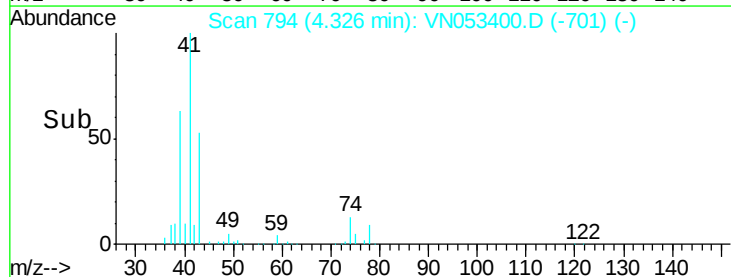
4.20

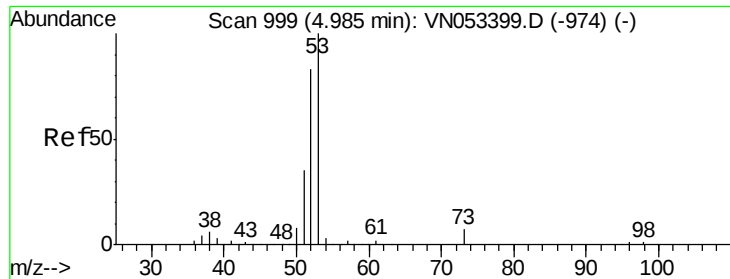
4.30

4.40

4.50

Time-->





#15

Acrylonitrile

Concen: 525.952 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 53 Resp: 1564251

Ion Ratio Lower Upper

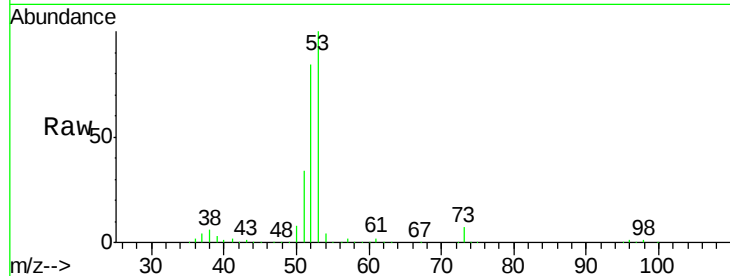
53 100

52 82.4 65.2 97.8

51 35.0 28.0 42.0

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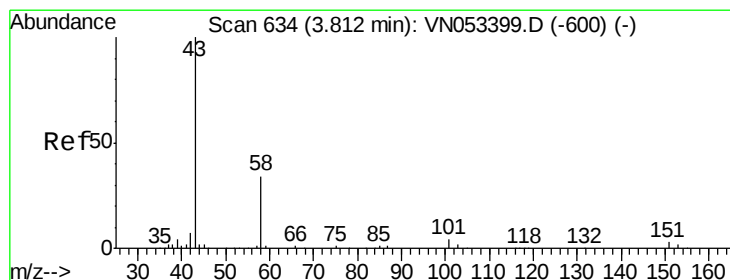
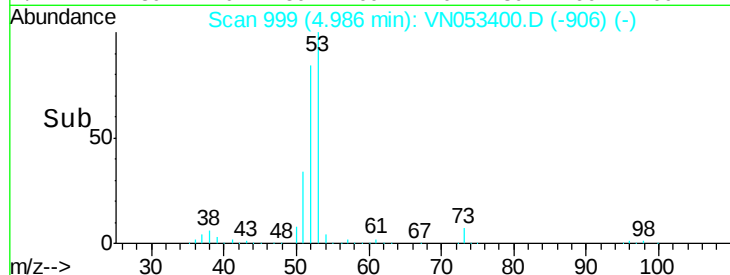
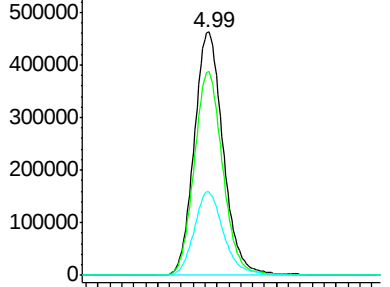
MMDadoda
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Abundance Ion 53.00 (52.70 to 53.70): VN053399.D (-974) (-)

Ion 52.00 (51.70 to 52.70): VN053399.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VN053399.D (-974) (-)



#16

Acetone

Concen: 482.375 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN053400.D

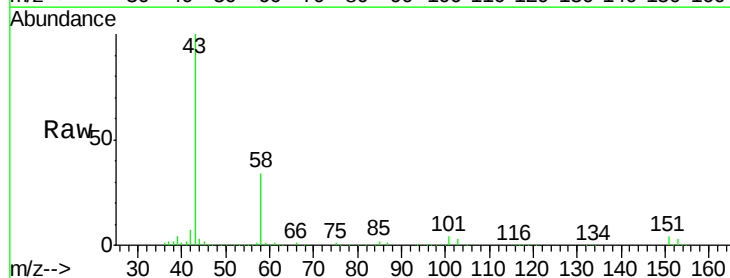
Acq: 15 Jan 2019 11:02

Tgt Ion: 43 Resp: 1045236

Ion Ratio Lower Upper

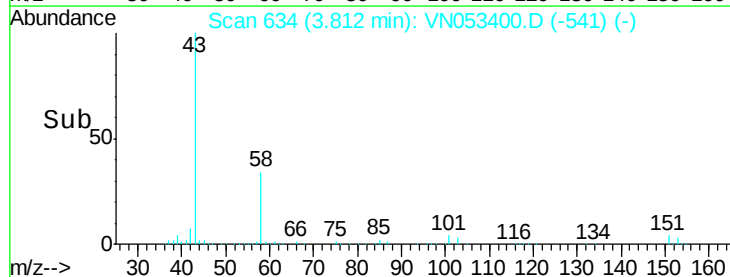
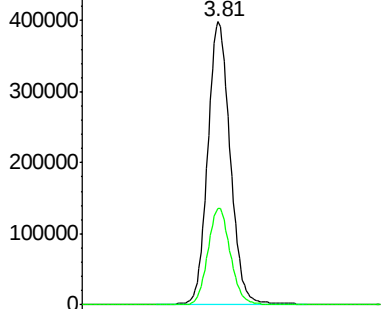
43 100

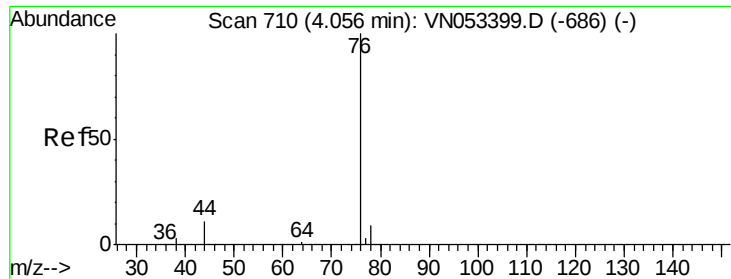
58 34.0 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN053399.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN053399.D (-600) (-)





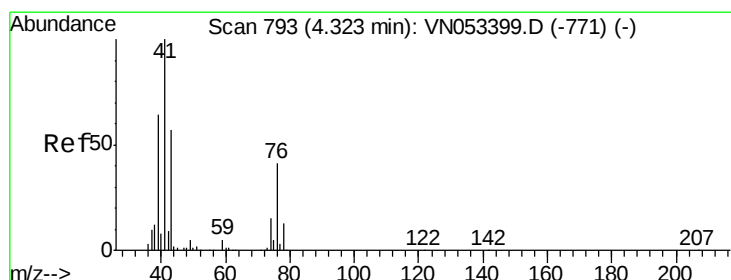
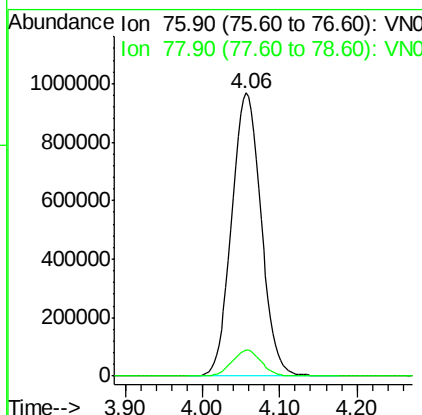
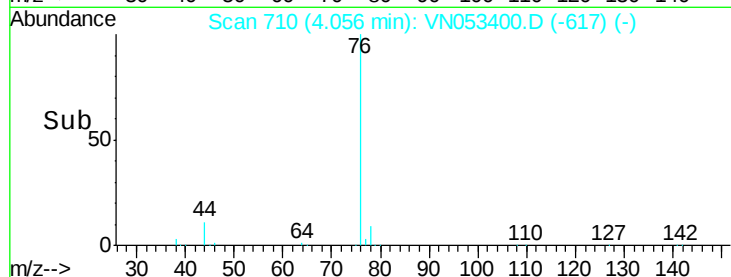
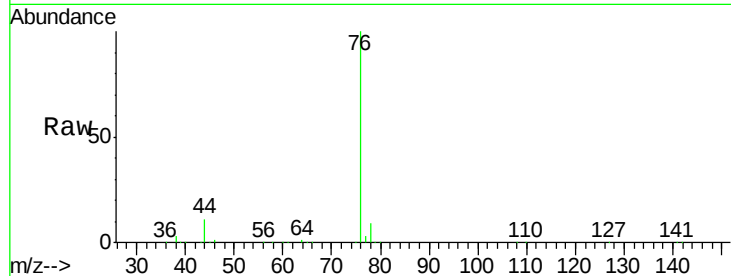
#17
Carbon Disulfide
Concen: 101.365 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion: 76 Resp: 2550102
Ion Ratio Lower Upper
76 100
78 9.2 7.2 10.8

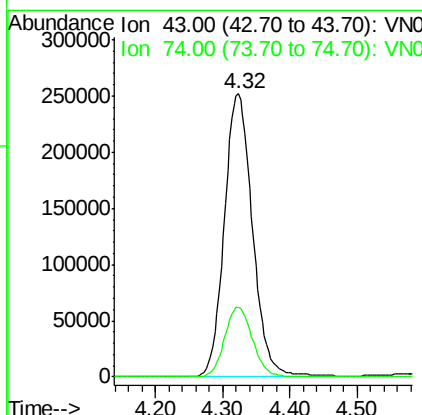
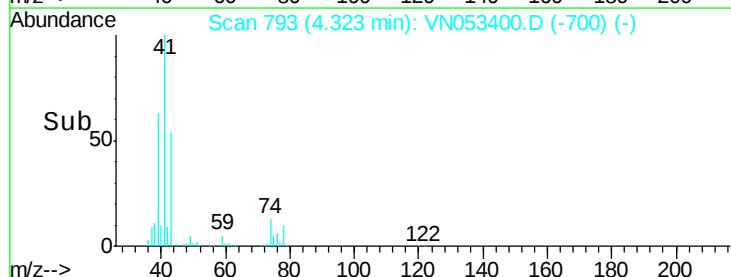
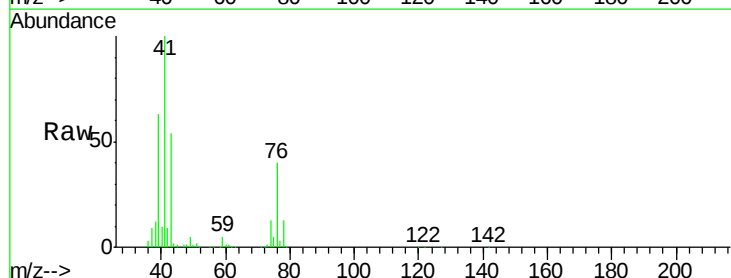
Manual Integrations
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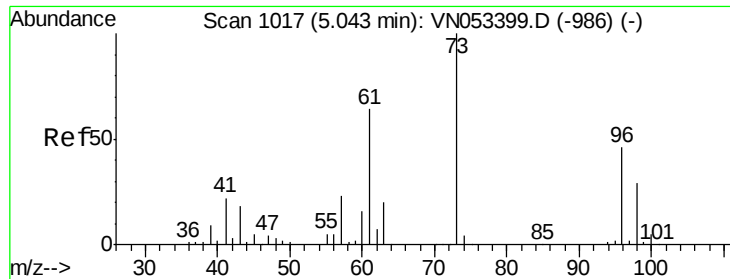
MMDadoda
1/16/2019 9:51:02 AM



#18
Methyl Acetate
Concen: 99.886 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 43 Resp: 729215
Ion Ratio Lower Upper
43 100
74 24.6 19.8 29.8





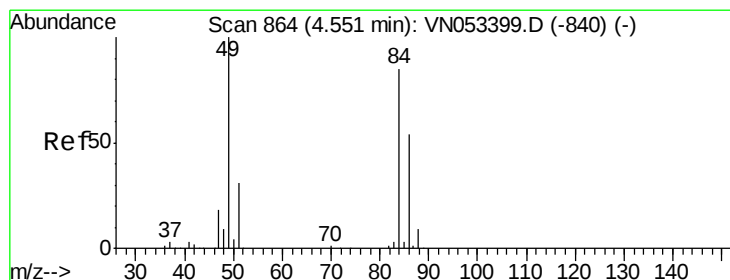
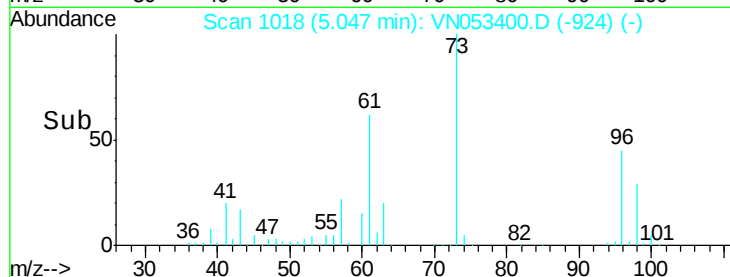
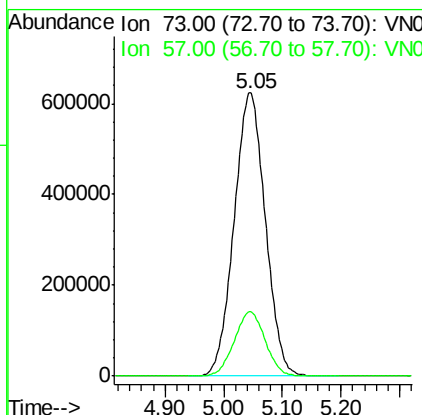
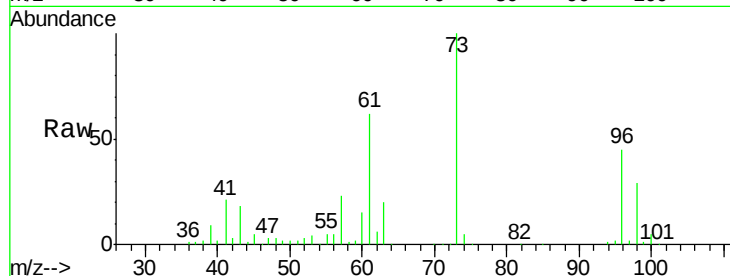
#19
Methvl tert-butvl Ether
Concen: 104.588 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 2311853
Ion Ratio Lower Upper
73 100
57 22.7 18.5 27.7

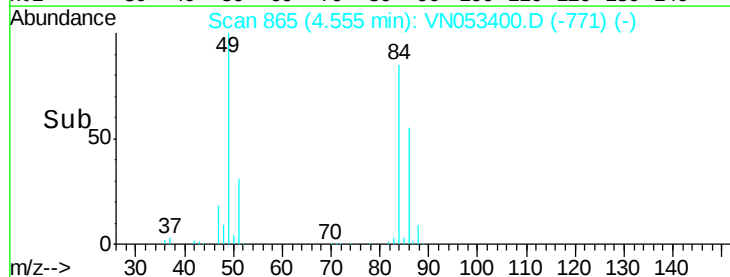
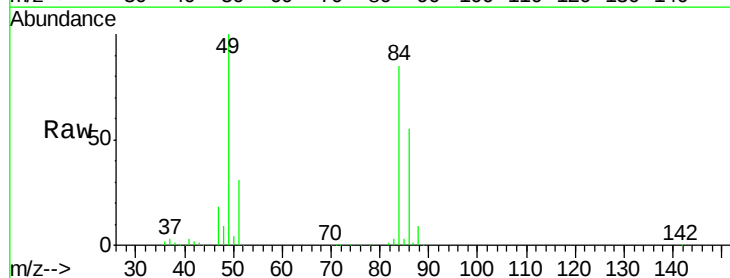
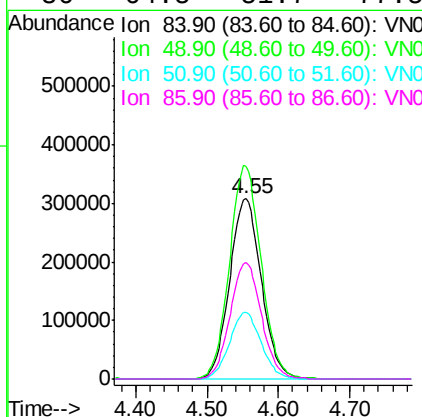
Manual Integrations
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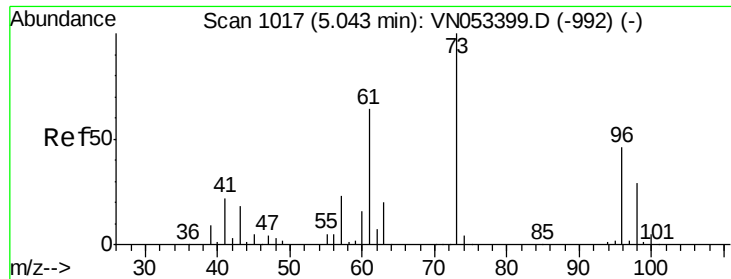
MMDadoda
1/16/2019 9:51:02 AM



#20
Methylene Chloride
Concen: 96.637 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 84 Resp: 956015
Ion Ratio Lower Upper
84 100
49 118.0 95.3 142.9
51 37.1 29.0 43.6
86 64.5 51.7 77.5





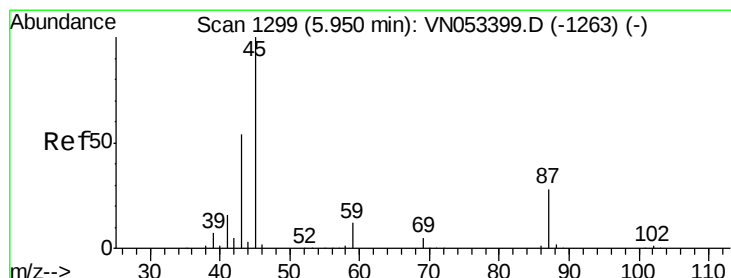
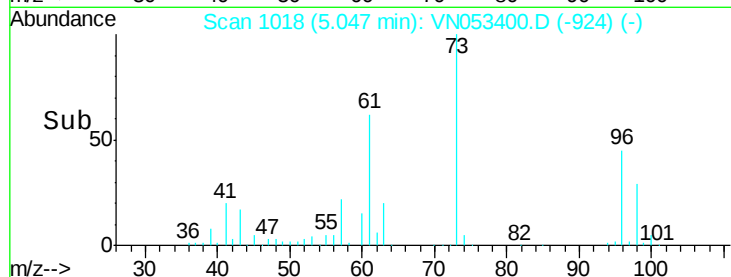
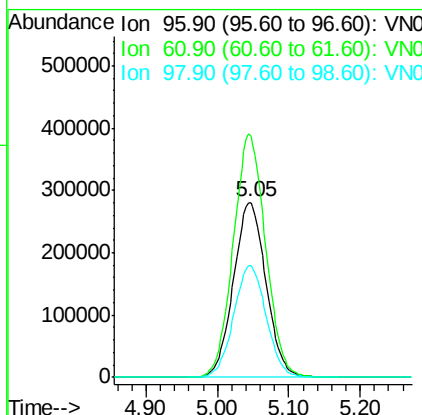
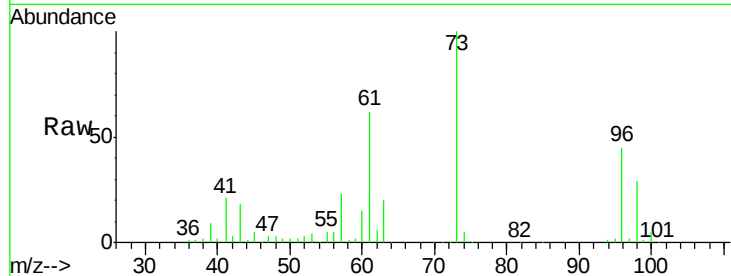
#21
trans-1,2-Dichloroethene
Concen: 100.378 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.5	110.2	165.4
98	63.7	50.7	76.1

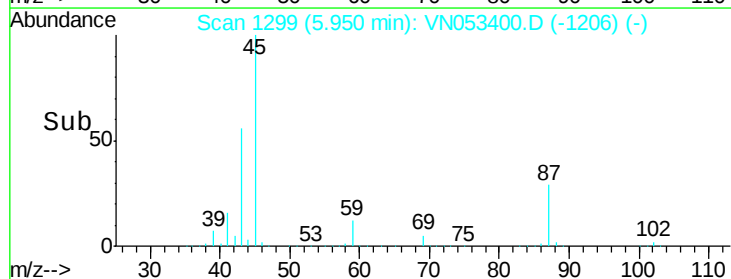
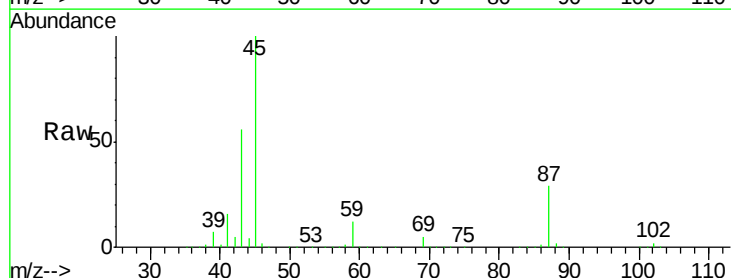
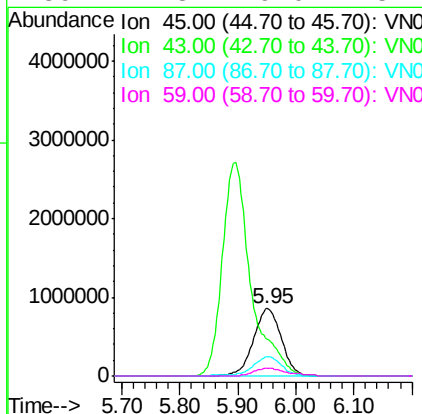
Manual Integrations
APPROVED

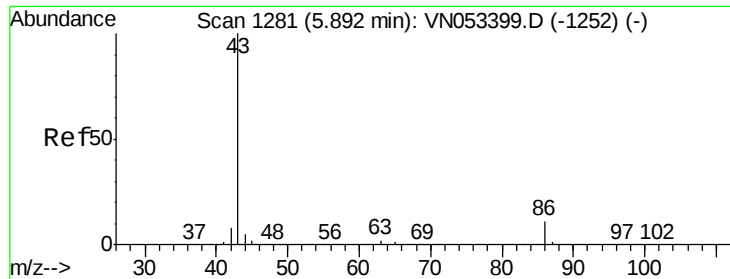
MMDadoda
1/16/2019 9:51:02 AM



#22
Diisopropyl ether
Concen: 101.792 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.5	43.0	64.6
87	28.6	22.1	33.1
59	11.8	9.0	13.4





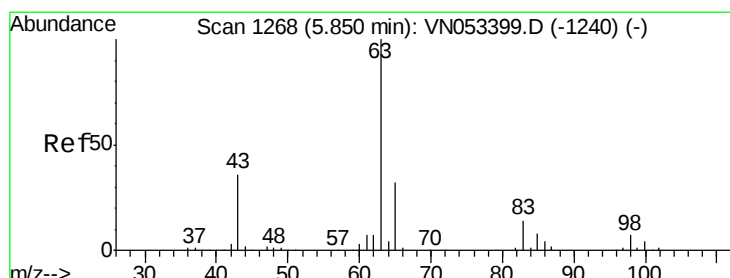
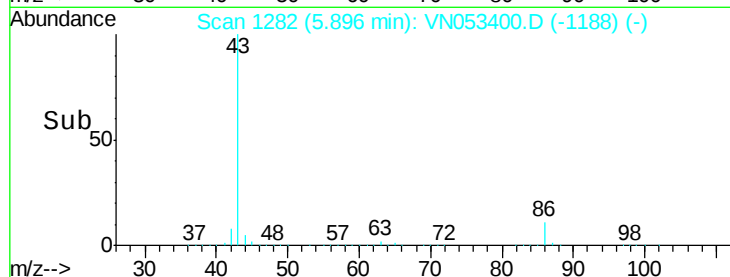
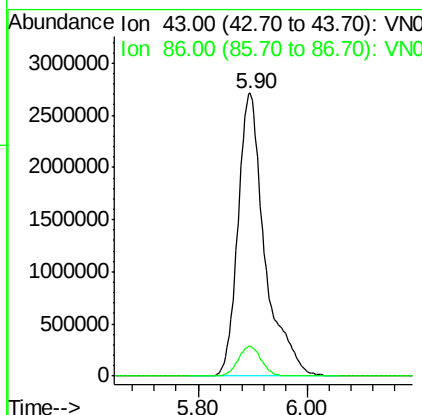
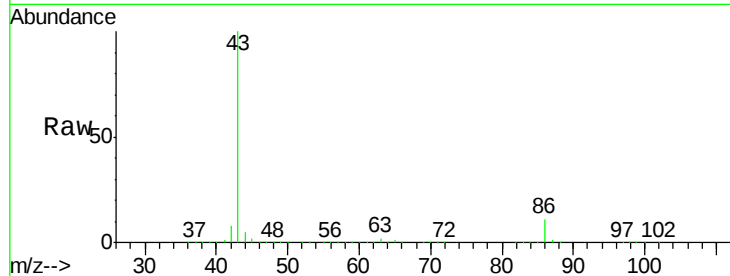
#23
 Vinyl Acetate
 Concen: 535.066 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 43 Resp: 9278463
 Ion Ratio Lower Upper
 43 100
 86 10.6 8.4 12.6

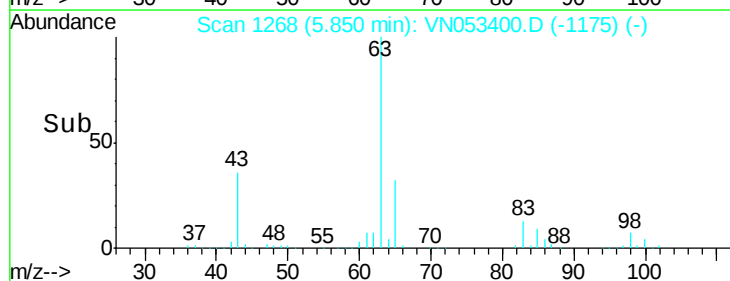
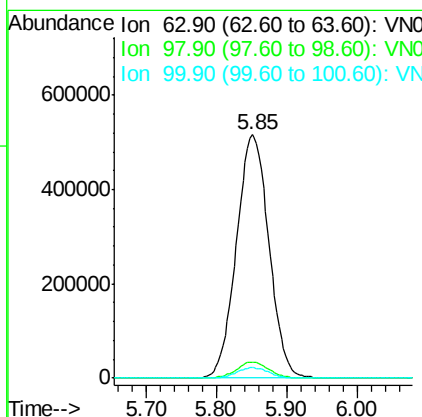
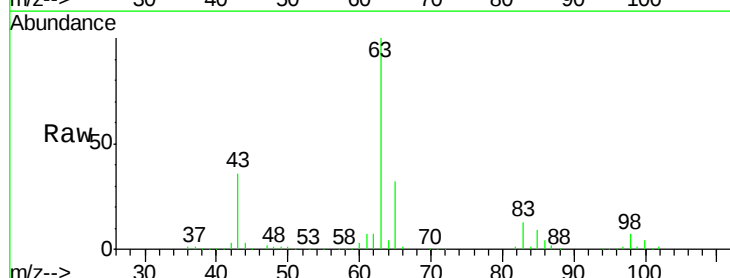
Manual Integrations
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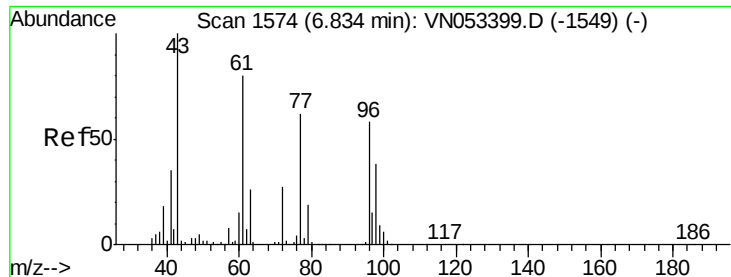
MMDadoda
 1/16/2019 9:51:02 AM



#24
 1,1-Dichloroethane
 Concen: 99.446 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion: 63 Resp: 1658412
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.3 9.8
 100 4.3 2.1 6.5





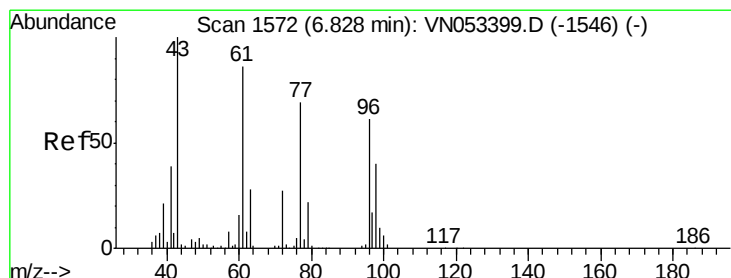
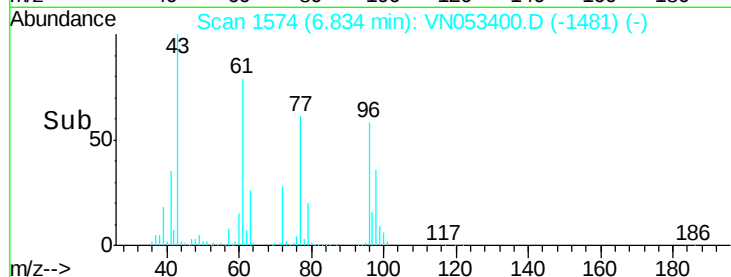
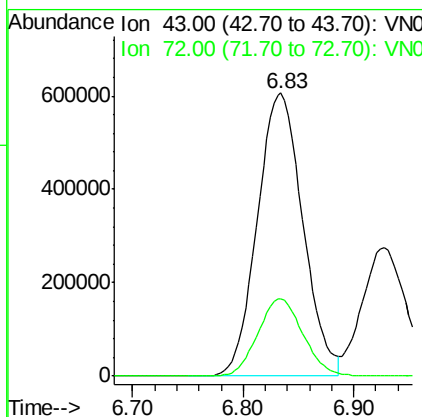
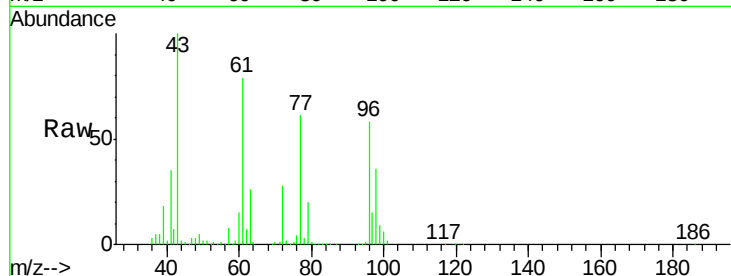
#25
 2-Butanone
 Concen: 517.304 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 43 Resp: 1727356
 Ion Ratio Lower Upper
 43 100
 72 27.5 22.0 33.0

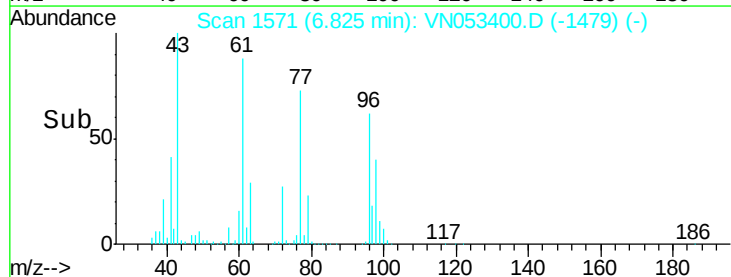
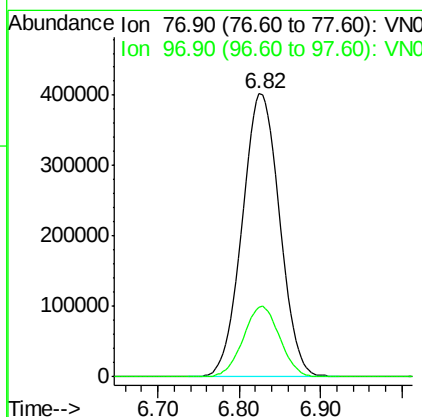
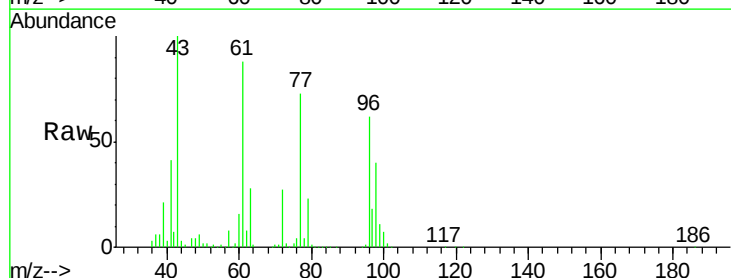
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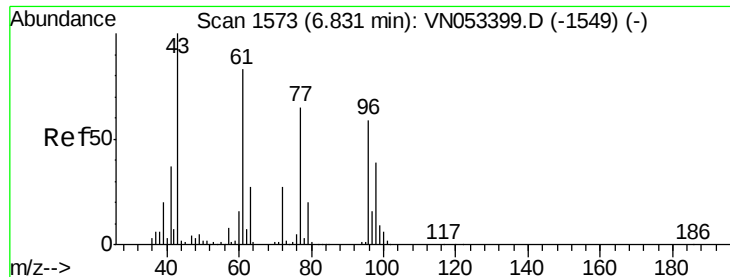
MMDadoda
 1/16/2019 9:51:02 AM



#26
 2,2-Dichloropropane
 Concen: 101.294 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion: 77 Resp: 1275401
 Ion Ratio Lower Upper
 77 100
 97 24.4 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 101.175 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 1028967

Ion Ratio Lower Upper

96 100

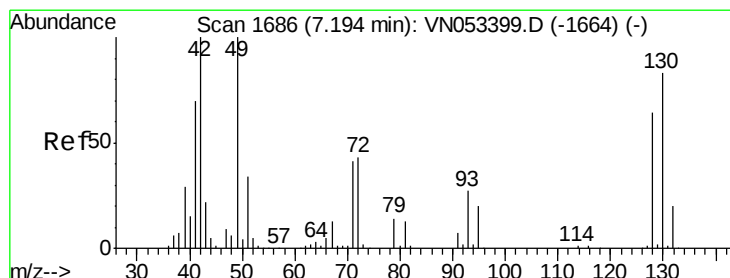
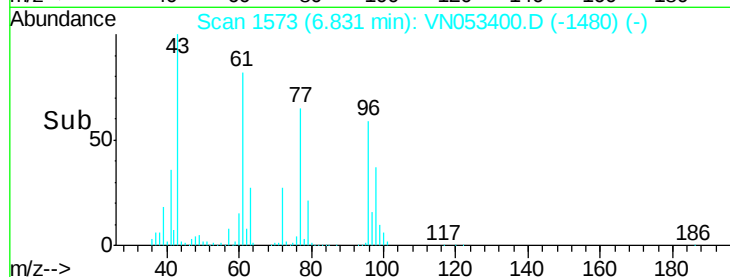
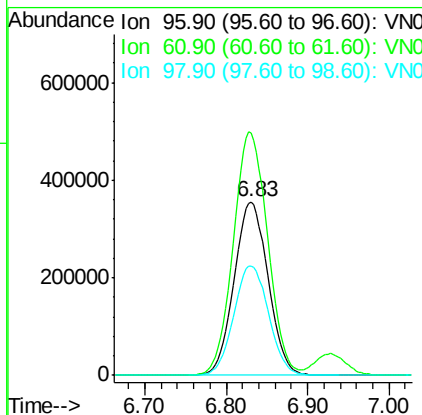
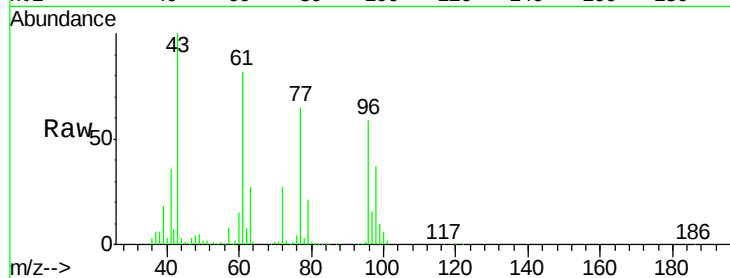
61 141.6 0.0 280.6

98 64.6 0.0 127.6

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#28

Bromochloromethane

Concen: 98.716 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

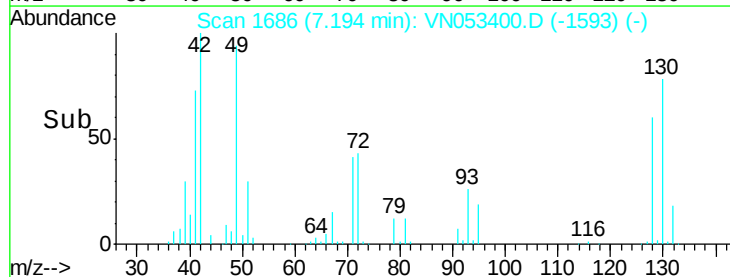
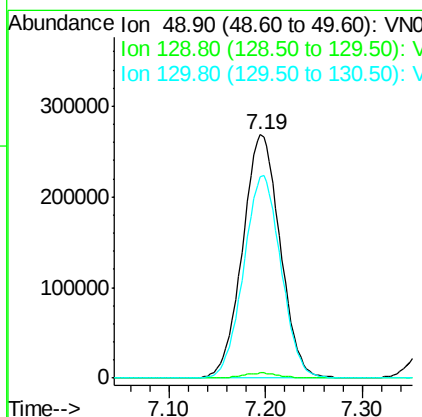
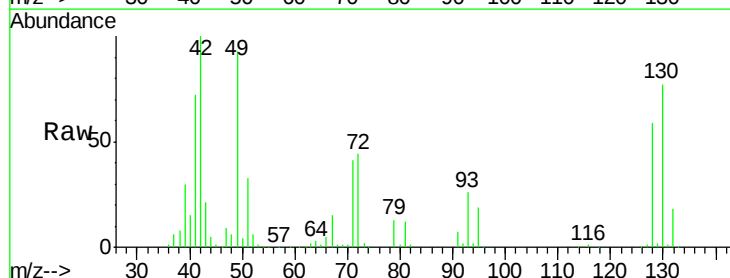
Tgt Ion: 49 Resp: 725233

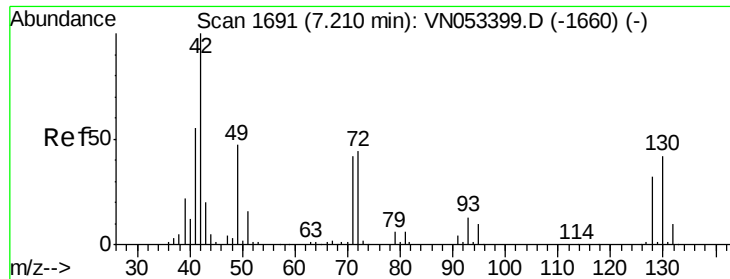
Ion Ratio Lower Upper

49 100

129 2.0 0.0 3.8

130 82.9 65.4 98.0





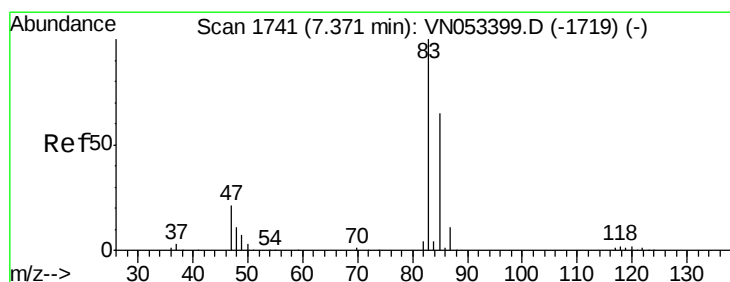
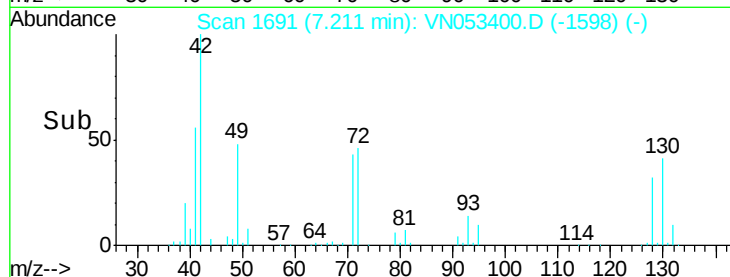
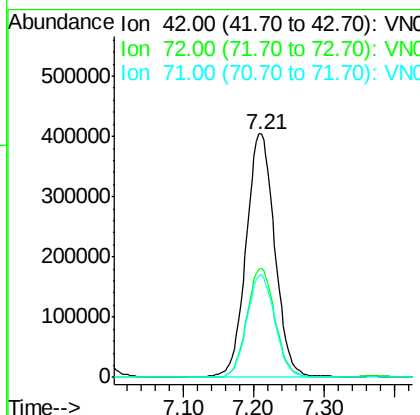
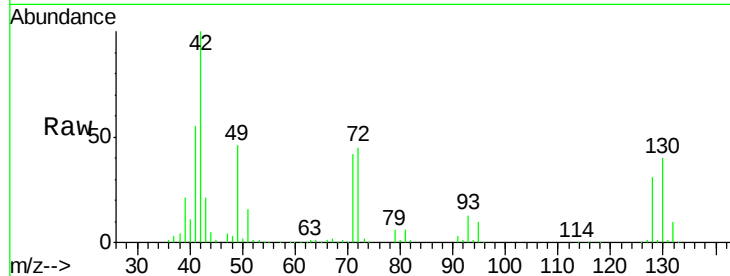
#29
Tetrahydrofuran
Concen: 524.742 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 42 Resp: 1140682
Ion Ratio Lower Upper
42 100
72 44.2 35.6 53.4
71 41.2 33.8 50.8

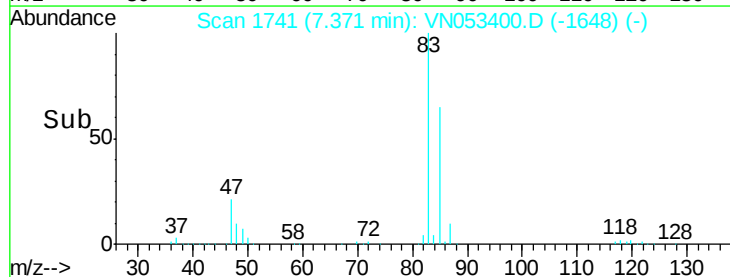
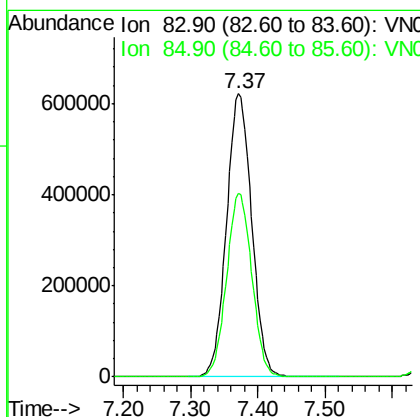
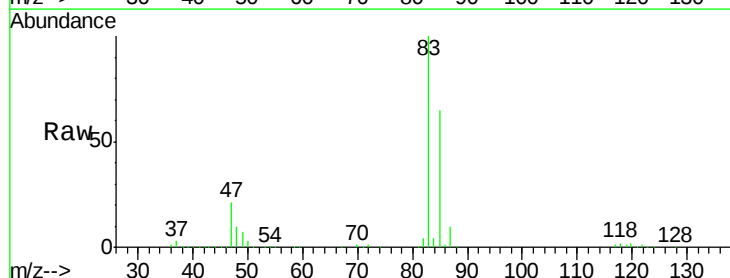
Manual Integrations
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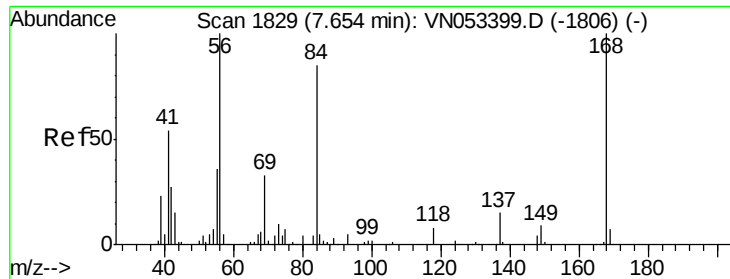
MMDadoda
1/16/2019 9:51:02 AM



#30
Chloroform
Concen: 99.627 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 83 Resp: 1618745
Ion Ratio Lower Upper
83 100
85 64.8 51.3 76.9





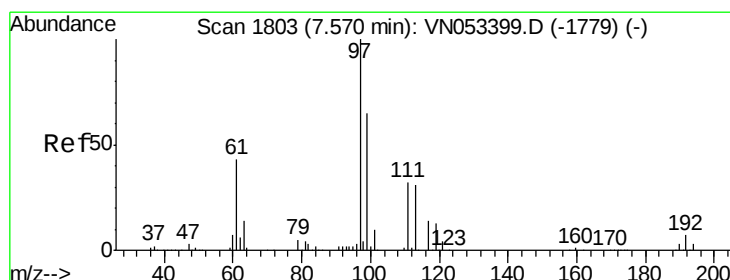
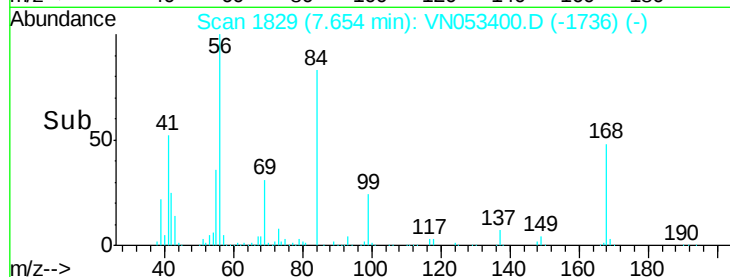
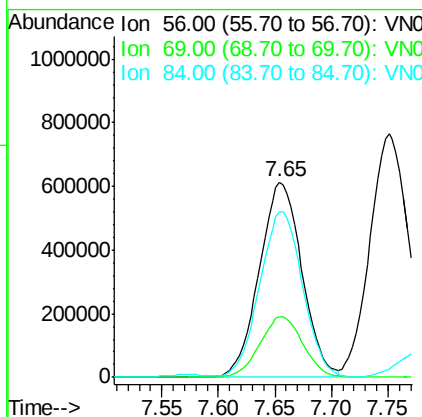
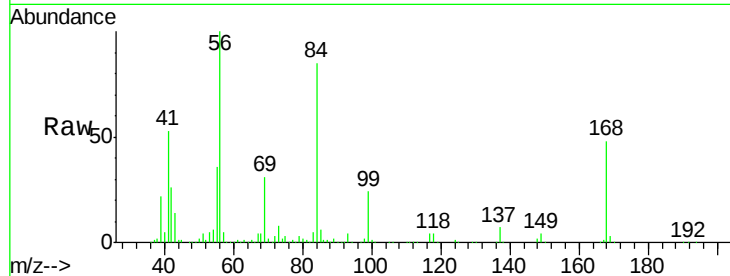
#31
Cyclohexane
Concen: 98.772 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 56 Resp: 1599442
Ion Ratio Lower Upper
56 100
69 31.3 26.7 40.1
84 83.7 68.2 102.4

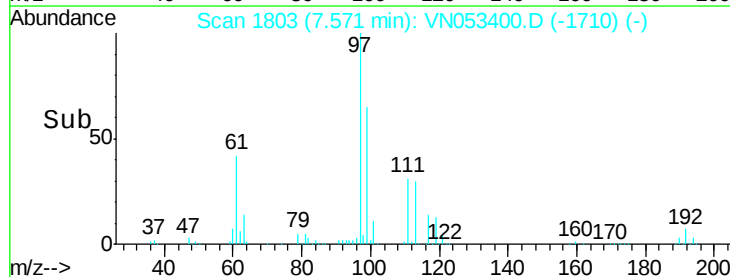
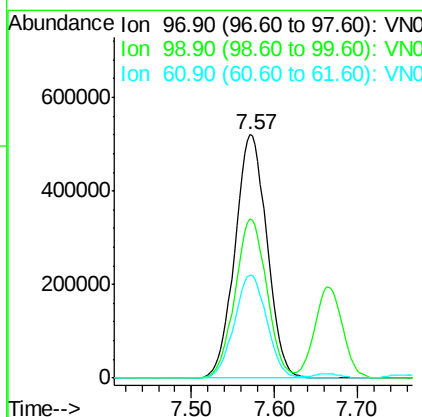
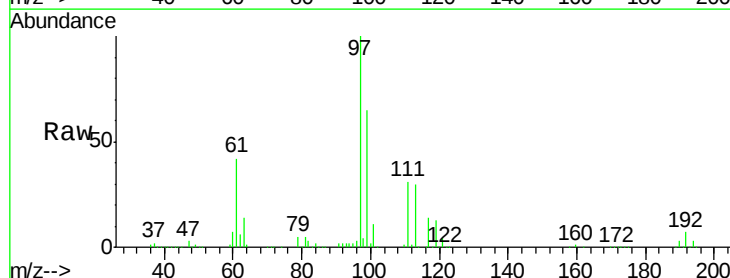
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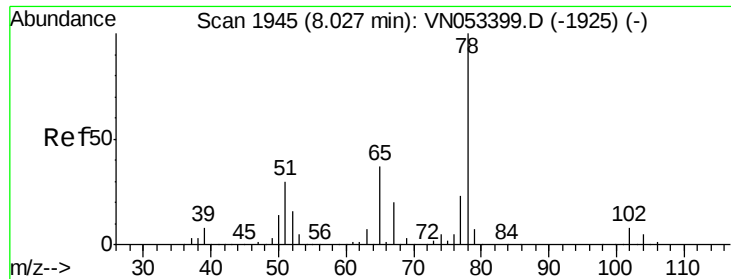
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#32
1,1,1-Trichloroethane
Concen: 101.399 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 97 Resp: 1397590
Ion Ratio Lower Upper
97 100
99 64.7 51.6 77.4
61 42.7 34.6 52.0





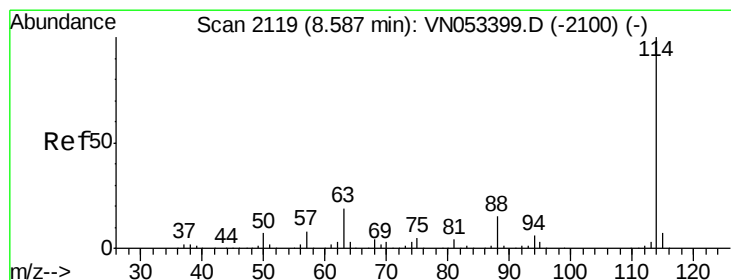
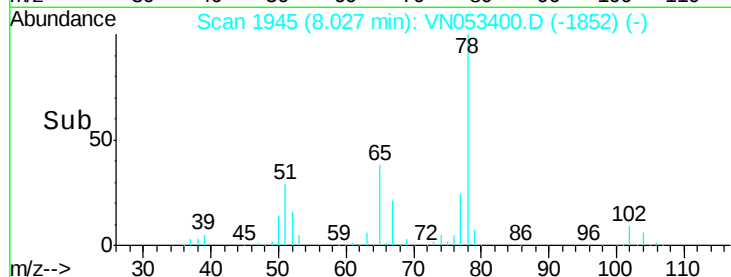
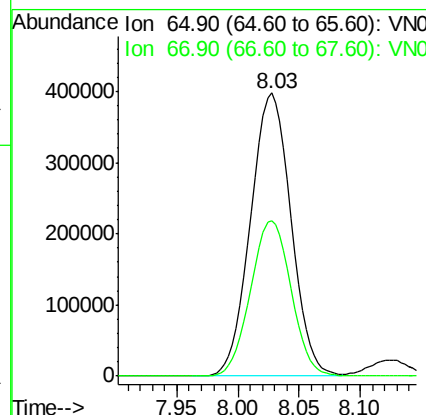
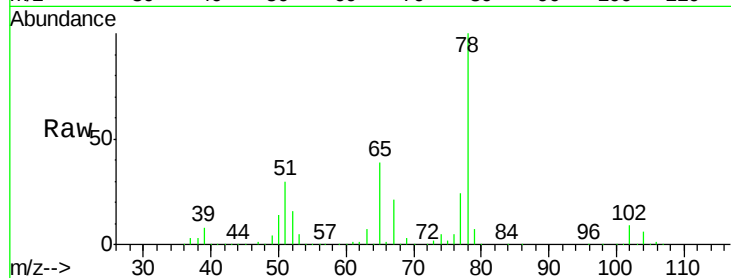
#33
 1,2-Dichloroethane-d4
 Concen: 101.399 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	913534		
67	55.0	0.0	111.0	

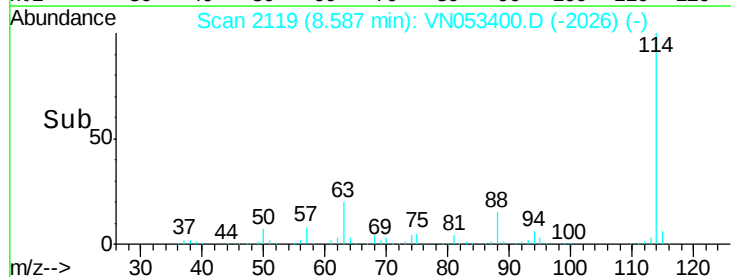
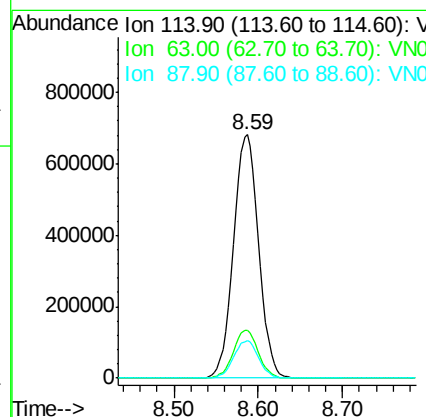
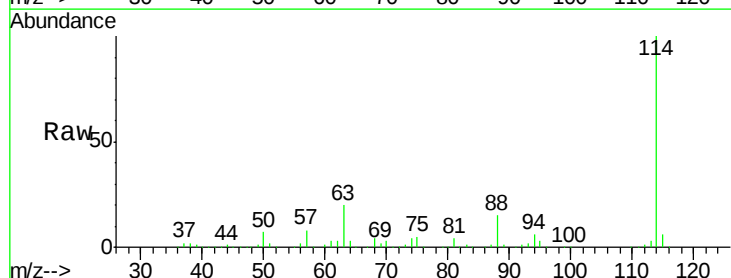
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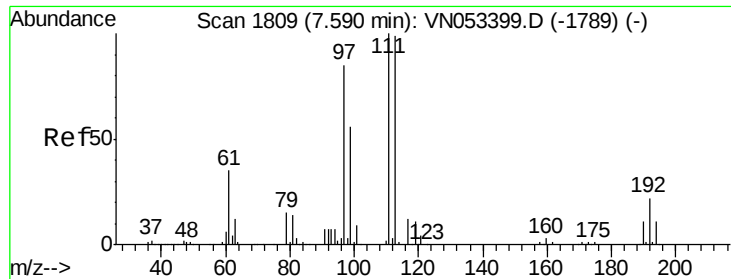
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1409270		
63	19.6	0.0	39.0	
88	15.4	0.0	30.8	





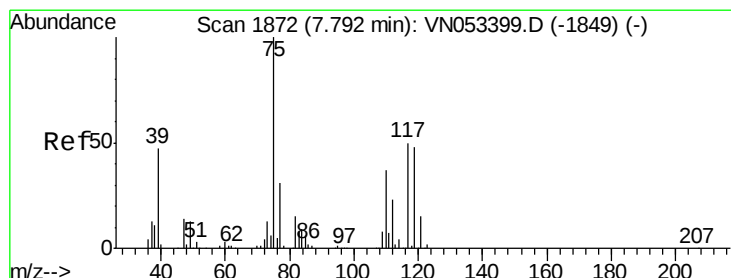
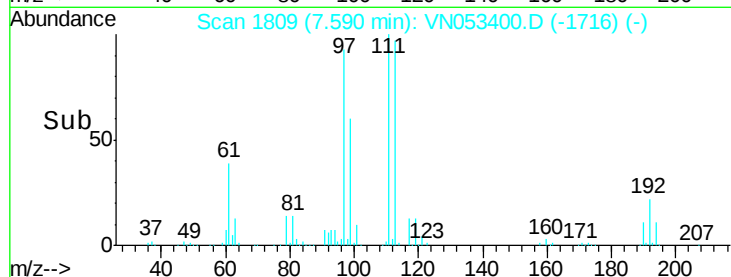
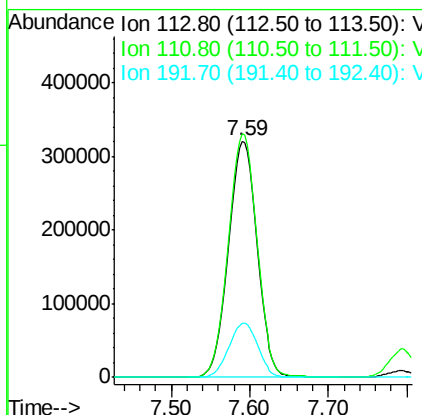
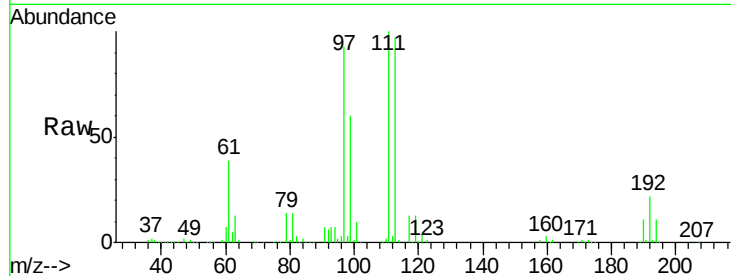
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
113	100	810831		
111	103.3	81.4	122.2	
192	23.3	17.9	26.9	

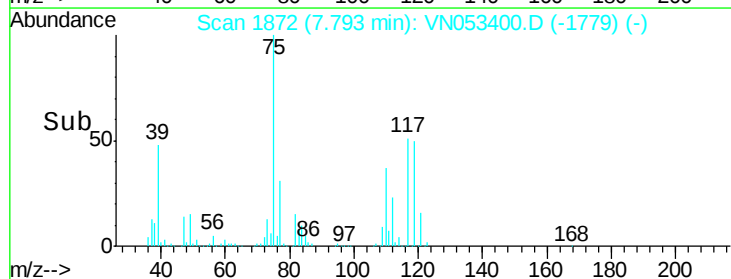
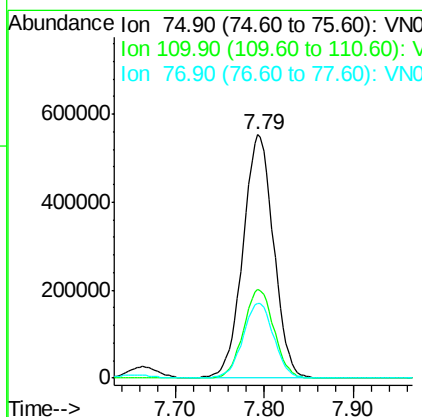
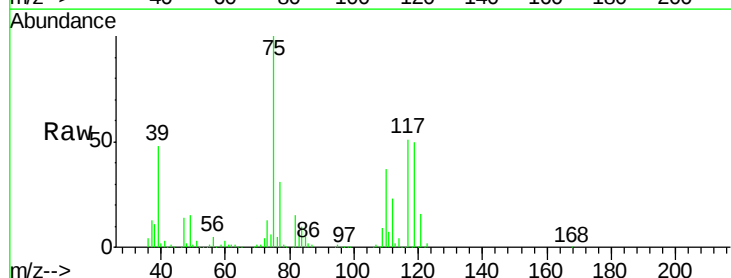
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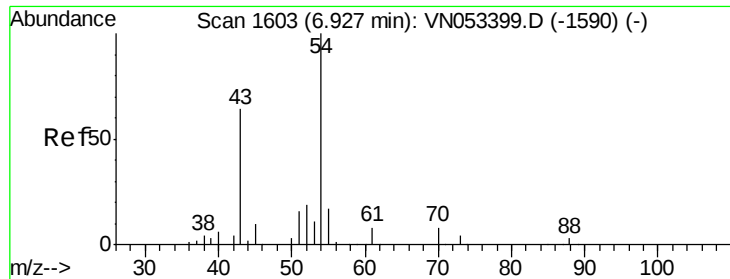
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#36
1,1-Dichloropropene
Concen: 102.220 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1311933		
110	36.5	18.4	55.0	
77	31.2	25.3	37.9	





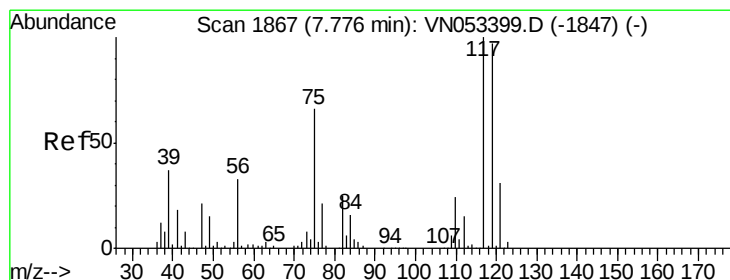
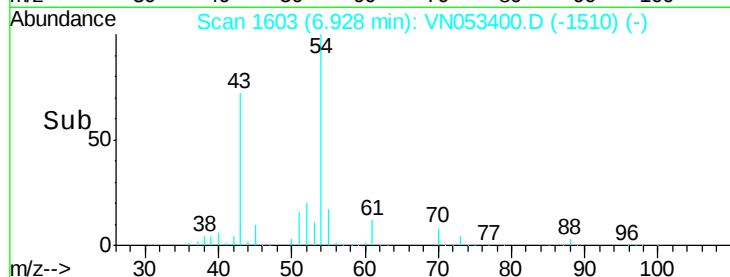
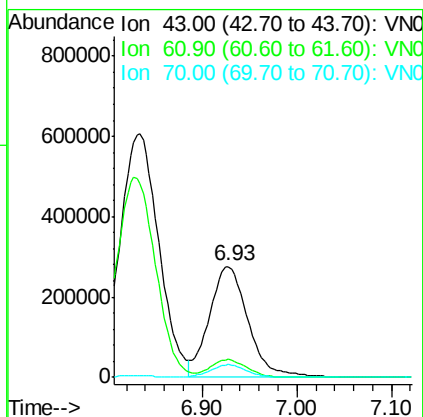
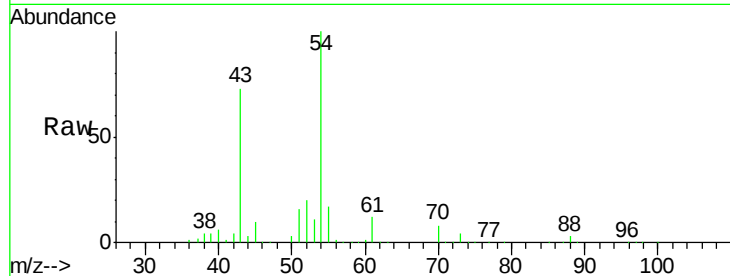
#37
Ethyl Acetate
Concen: 104.083 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.9	17.9
70	11.1	8.6	13.0

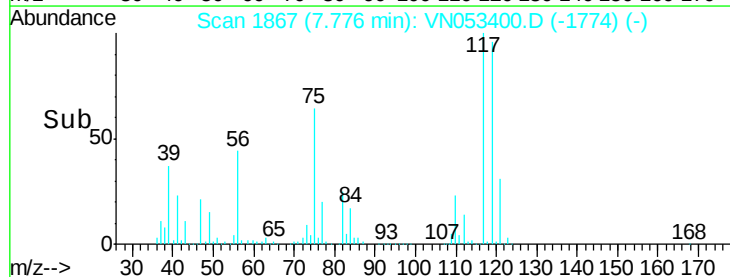
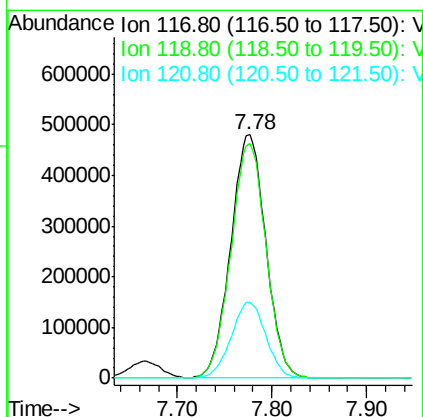
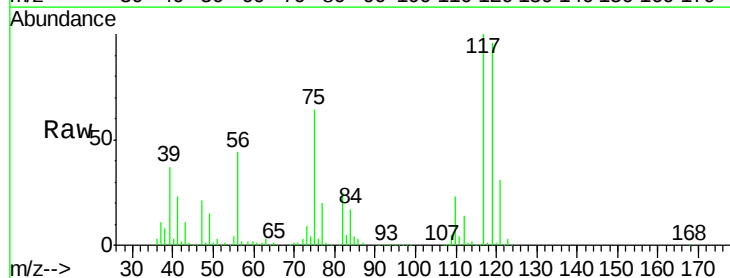
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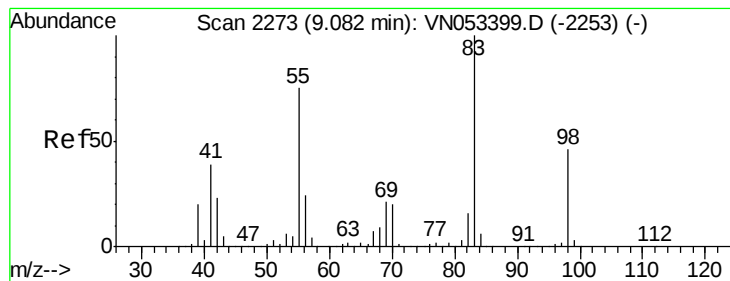
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#38
Carbon Tetrachloride
Concen: 101.467 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.6	115.0
121	31.1	25.0	37.4





#39

Methvlcvclohexane

Concen: 103.764 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1646022

Ion Ratio Lower Upper

83 100

55 74.5 60.1 90.1

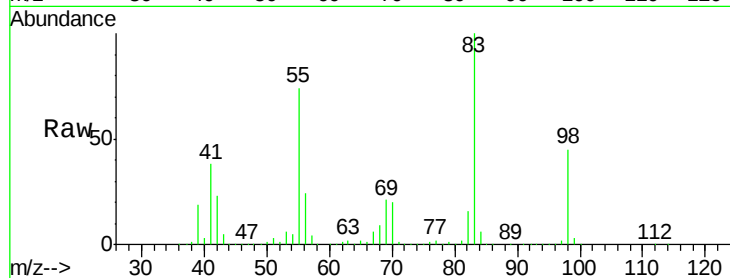
98 45.4 36.7 55.1

Manual Integrations

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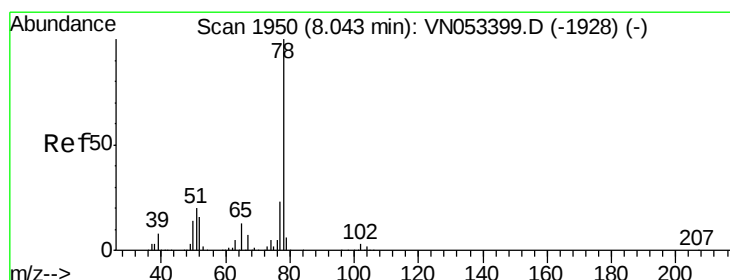
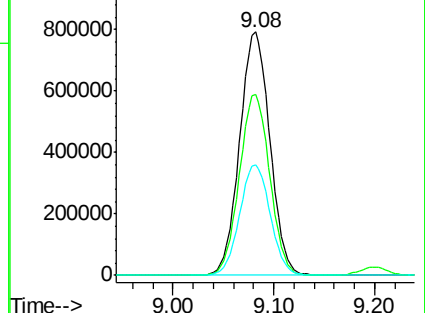
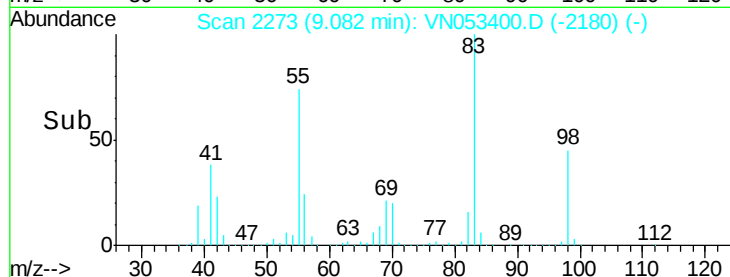
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Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40

Benzene

Concen: 99.947 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN053400.D

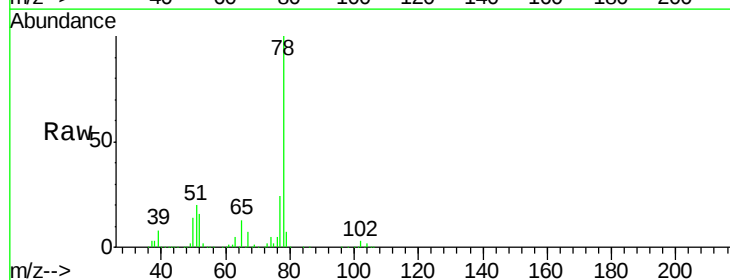
Acq: 15 Jan 2019 11:02

Tgt Ion: 78 Resp: 3898070

Ion Ratio Lower Upper

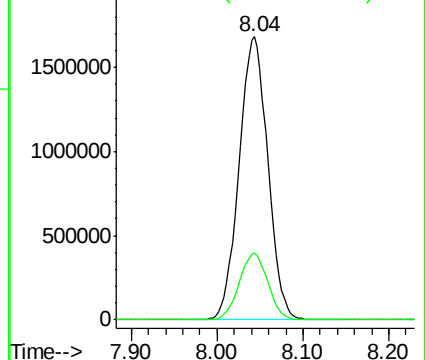
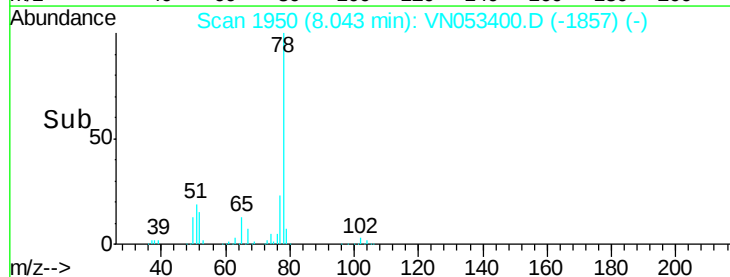
78 100

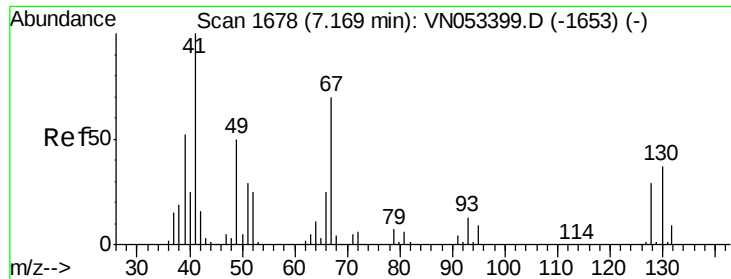
77 23.7 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#41

Methacrylonitrile

Concen: 93.696 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 41 Resp: 431372
Ion Ratio Lower Upper

41 100

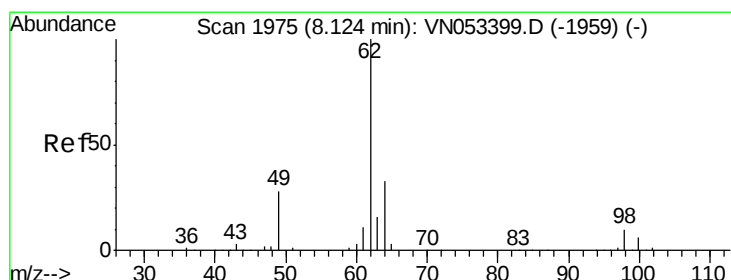
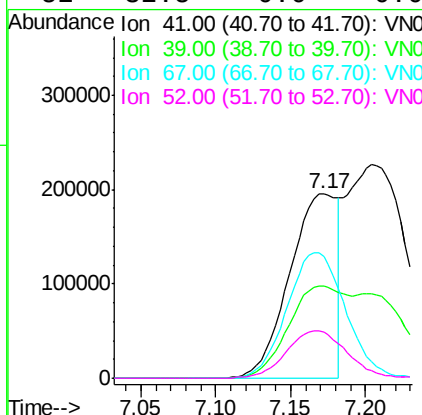
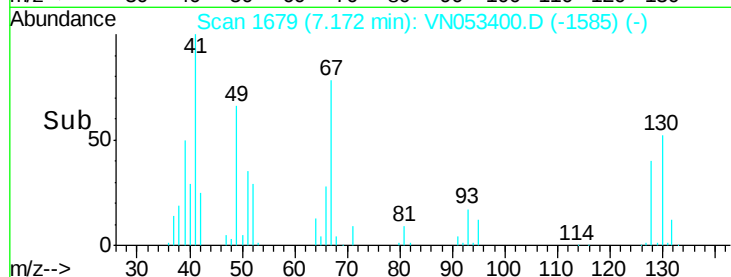
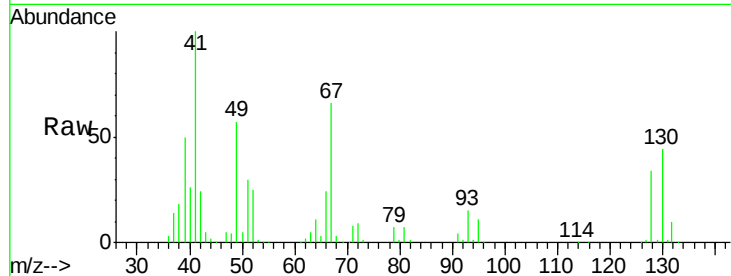
39 62.7 0.0 0.0#

67 84.1 0.0 0.0#

52 32.5 0.0 0.0#

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 99.577 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

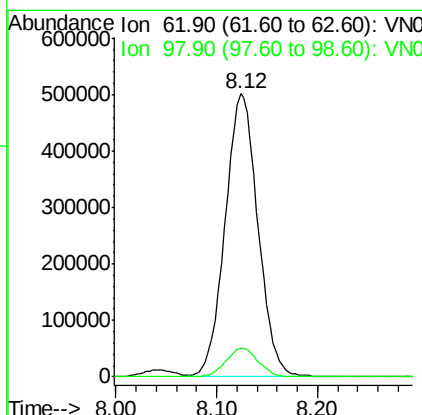
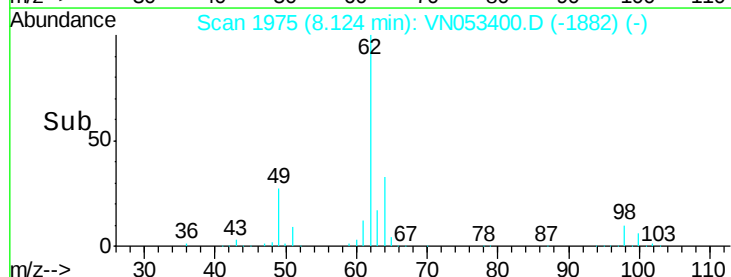
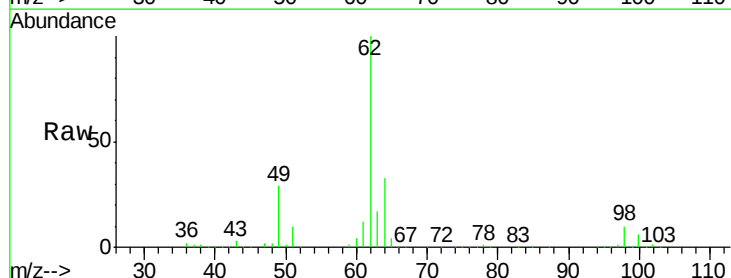
Lab File: VN053400.D

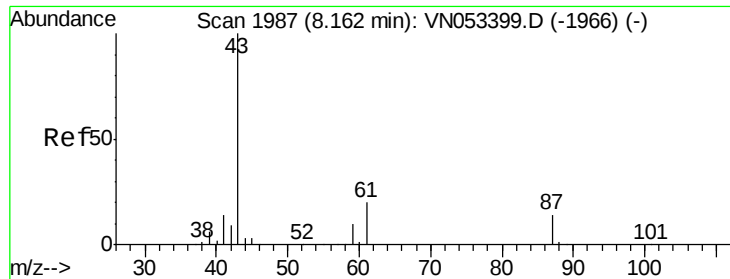
Acq: 15 Jan 2019 11:02

Tgt Ion: 62 Resp: 1131416
Ion Ratio Lower Upper

62 100

98 10.1 0.0 20.2





#43

Isopropyl Acetate

Concen: 101.910 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1412892

Ion Ratio Lower Upper

43 100

61 30.5 23.3 34.9

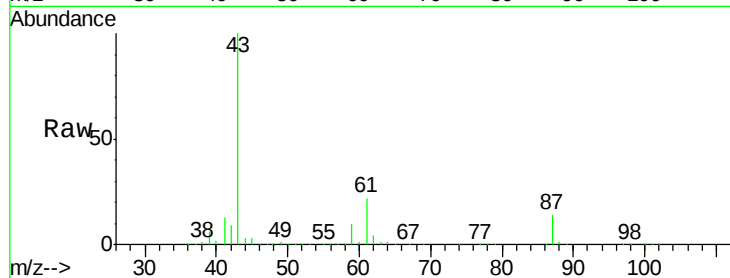
87 14.2 10.8 16.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN053399.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN053399.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN053399.D (-1966) (-)

8.16

600000

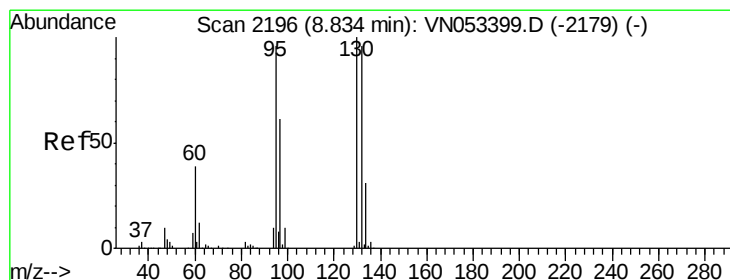
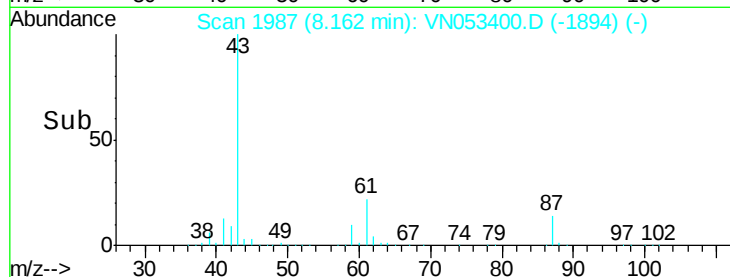
400000

200000

0

8.10 8.20 8.30

Time-->



#44

Trichloroethene

Concen: 100.060 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN053400.D

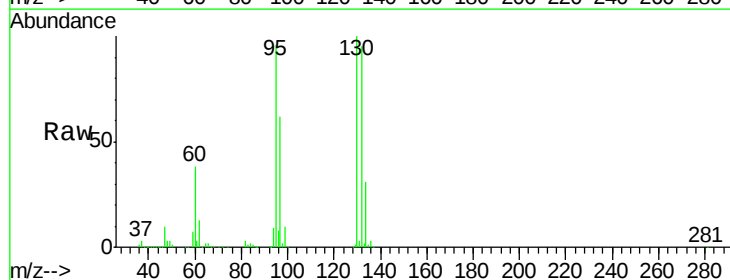
Acq: 15 Jan 2019 11:02

Tgt Ion:130 Resp: 1082214

Ion Ratio Lower Upper

130 100

95 96.3 0.0 191.8



Abundance Ion 129.80 (129.50 to 130.50): VN053399.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN053399.D (-2179) (-)

8.83

600000

500000

400000

300000

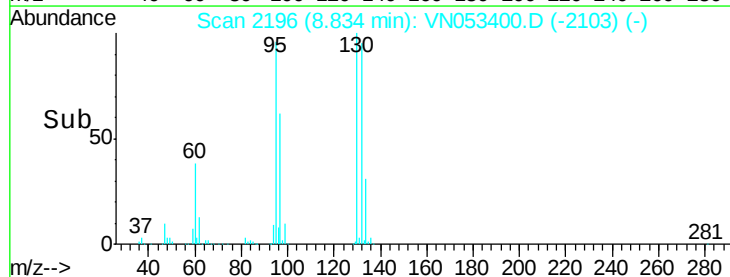
200000

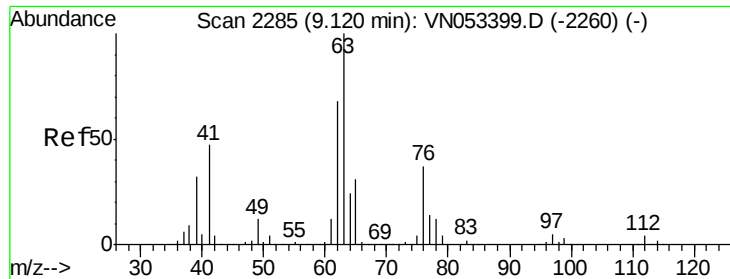
100000

0

8.80 8.90

Time-->





#45

1,2-Dichloropropane

Concen: 100.330 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 1036435

Ion Ratio Lower Upper

63 100

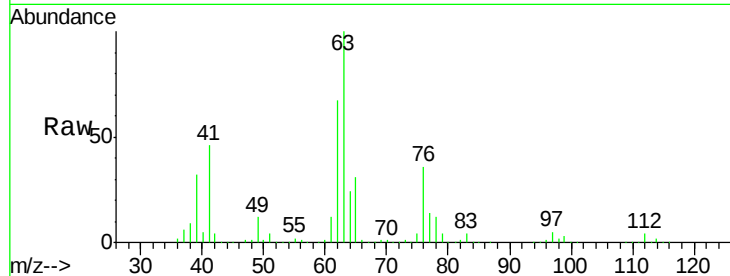
65 30.8 25.0 37.6

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VN053399.D (-2260) (-)

Ion 64.90 (64.60 to 65.60): VN053399.D (-2260) (-)

600000

500000

400000

300000

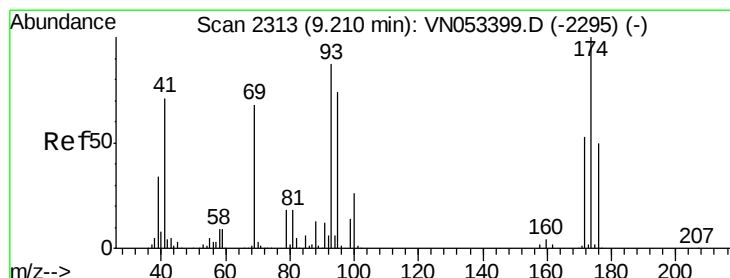
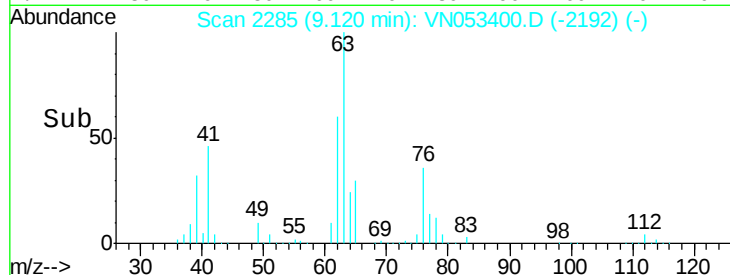
200000

100000

0

9.00 9.10 9.20

Time-->



#46

Dibromomethane

Concen: 99.286 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

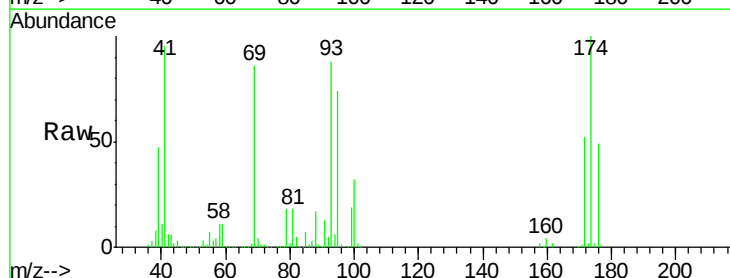
Tgt Ion: 93 Resp: 589275

Ion Ratio Lower Upper

93 100

95 83.5 66.6 100.0

174 115.0 91.4 137.0



Abundance Ion 92.80 (92.50 to 93.50): VN053399.D (-2295) (-)

Ion 94.80 (94.50 to 95.50): VN053399.D (-2295) (-)

Ion 173.70 (173.40 to 174.40): VN053399.D (-2295) (-)

400000

300000

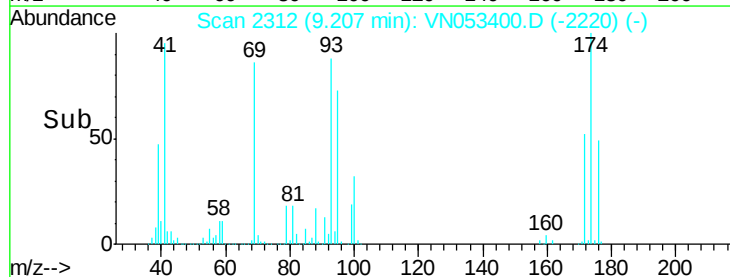
200000

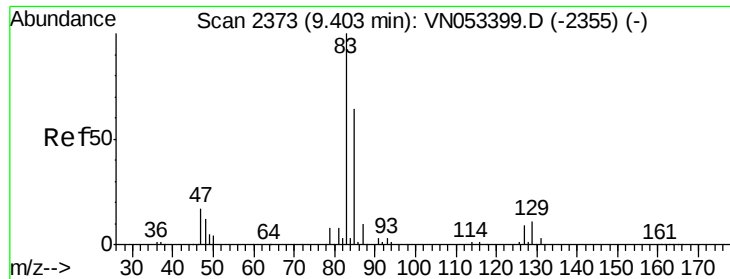
100000

0

9.10 9.20 9.30

Time-->





#47

Bromodichloromethane

Concen: 100.906 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1259459

Ion Ratio Lower Upper

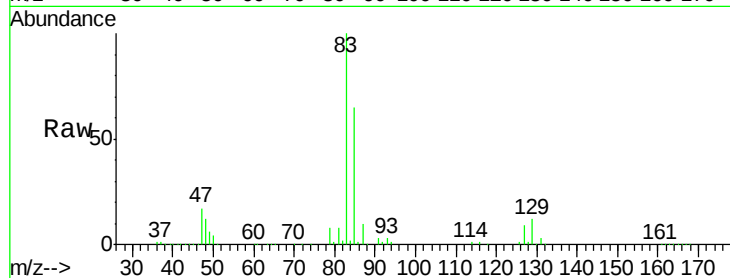
83 100

85 64.9 51.7 77.5

127 9.1 7.0 10.6

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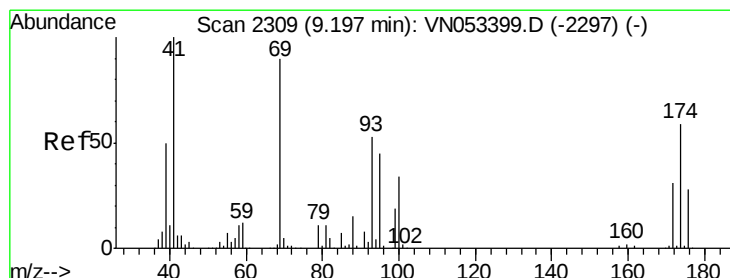
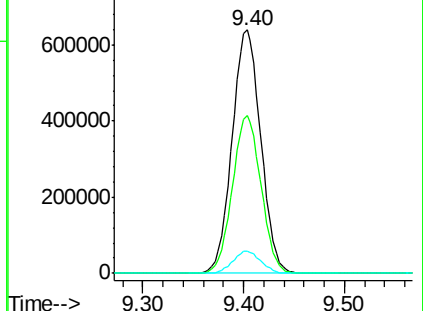
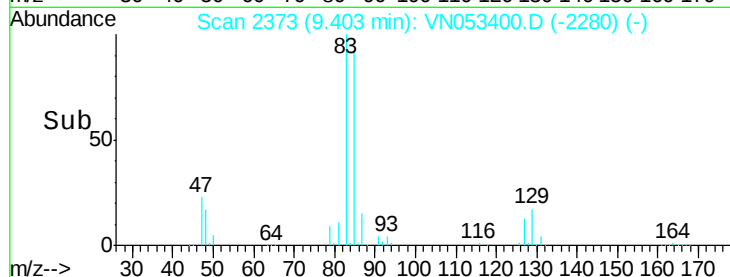


Abundance Ion 82.90 (82.60 to 83.60): VN053399.D (-2355) (-)

Ion 84.90 (84.60 to 85.60): VN053399.D (-2355) (-)

Ion 126.80 (126.50 to 127.50): VN053399.D (-2355) (-)

Time-->



#48

Methyl methacrylate

Concen: 106.361 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

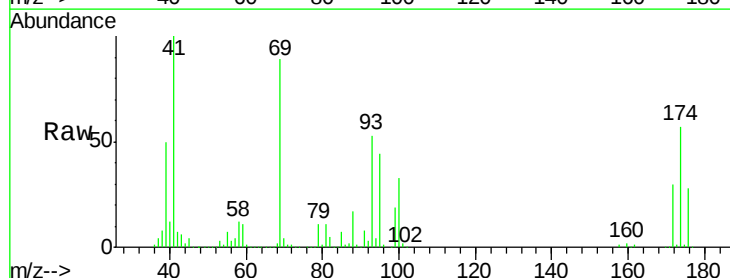
Tgt Ion: 41 Resp: 729148

Ion Ratio Lower Upper

41 100

69 91.9 73.5 110.3

39 52.2 41.6 62.4

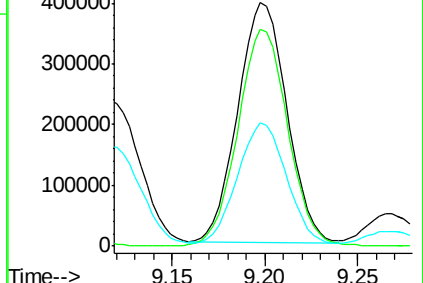
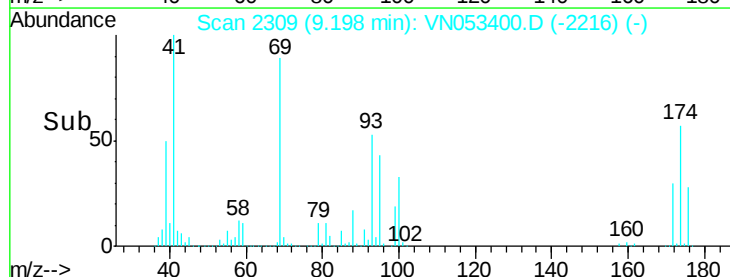


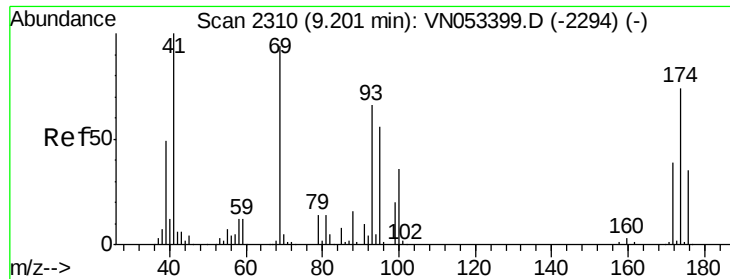
Abundance Ion 41.00 (40.70 to 41.70): VN053399.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN053399.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN053399.D (-2297) (-)

Time-->





#49

1,4-Dioxane

Concen: 2046.231 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

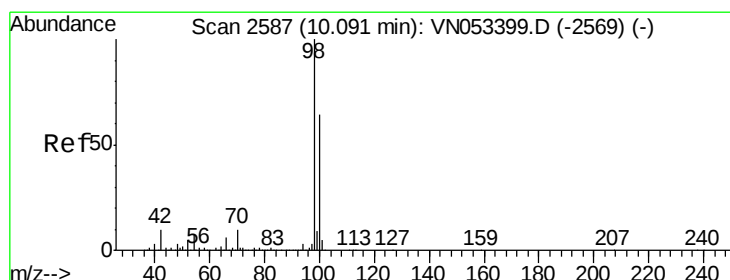
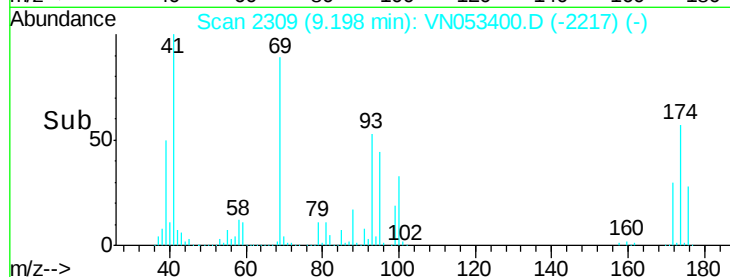
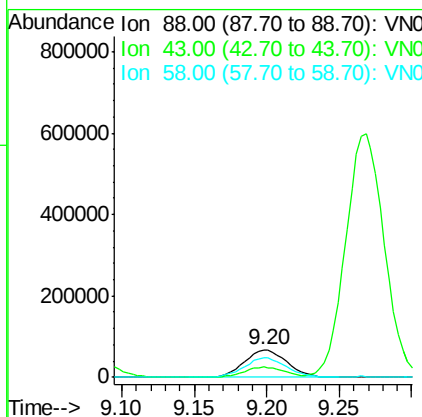
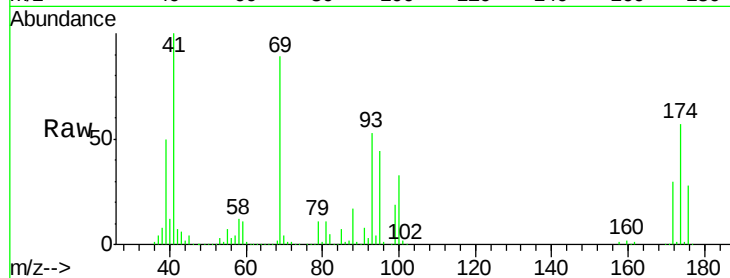
ClientSampleId :

VSTDIC100

Tot Ion:	88	Resp:	136998
Ion	Ratio	Lower	Upper
88	100		
43	34.5	26.2	39.4
58	70.2	55.5	83.3

Manual Integrations
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#50

Toluene-d8

Concen: 2046.231 ug/l

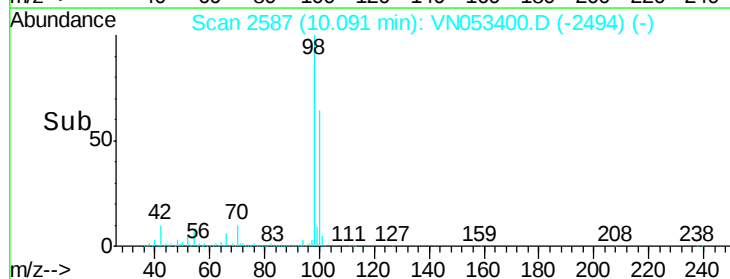
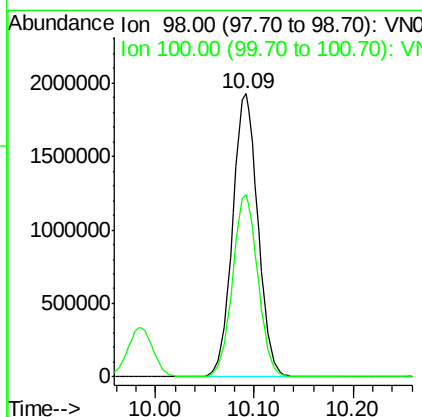
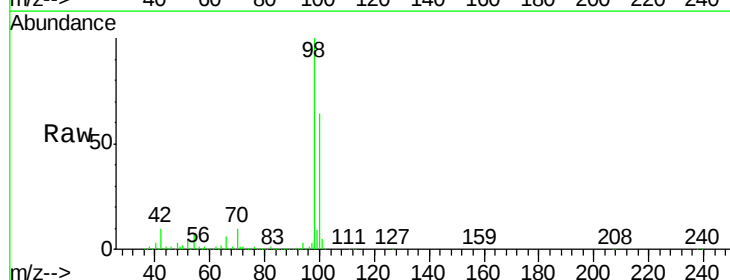
RT: 10.09 min Scan# 2587

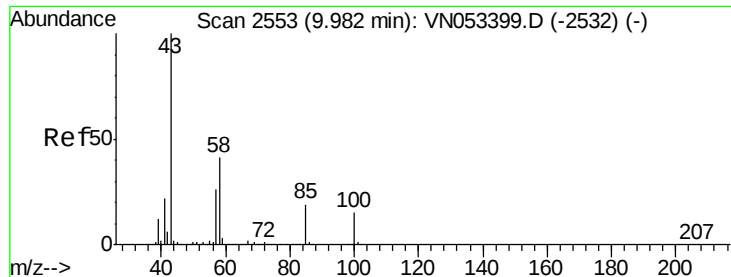
Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Tgt Ion:	98	Resp:	3430369
Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 530.347 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 3843960

Ion Ratio Lower Upper

43 100

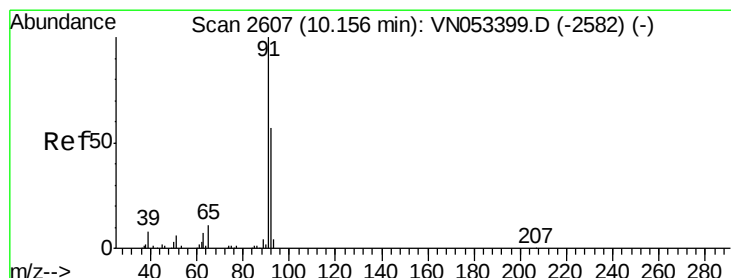
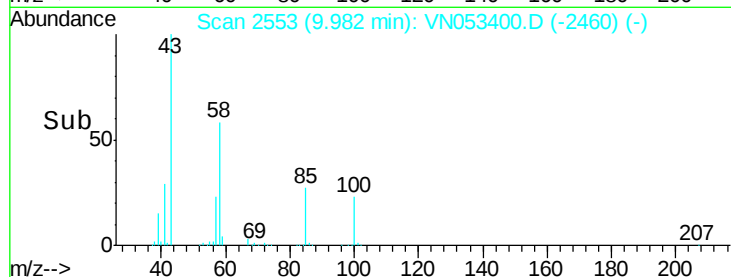
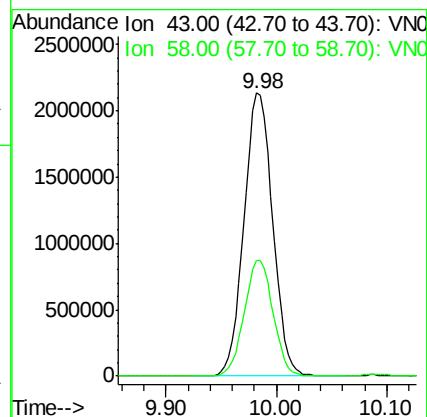
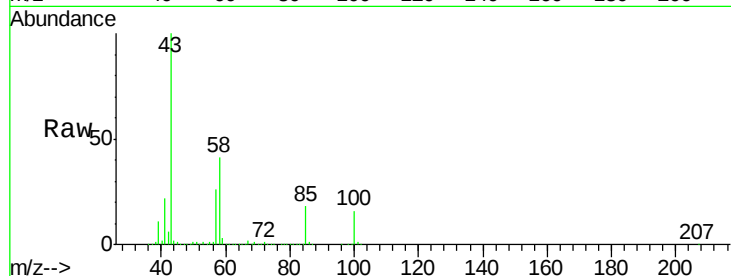
58 41.0 32.7 49.1

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#52

Toluene

Concen: 101.301 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053400.D

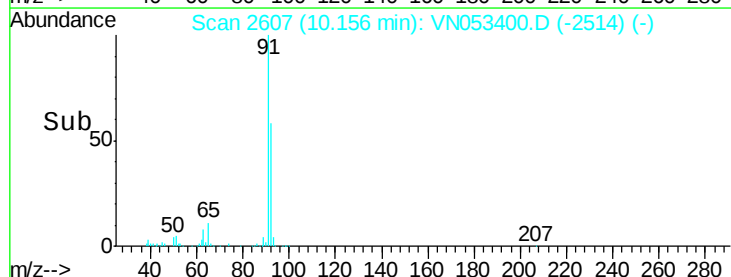
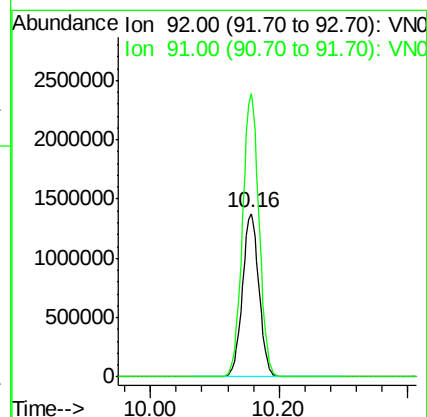
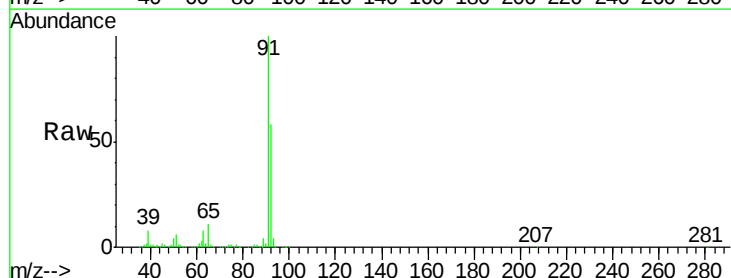
Acq: 15 Jan 2019 11:02

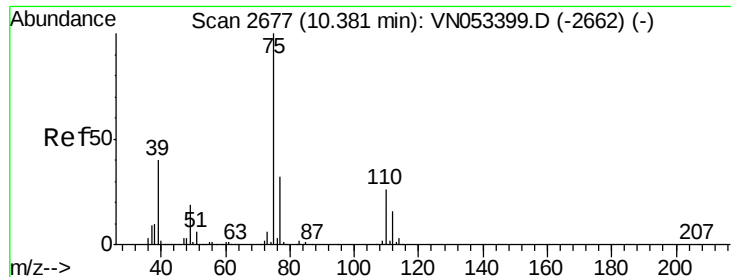
Tgt Ion: 92 Resp: 2452795

Ion Ratio Lower Upper

92 100

91 174.0 138.6 208.0





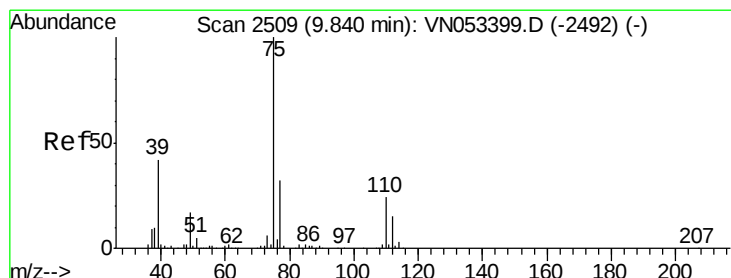
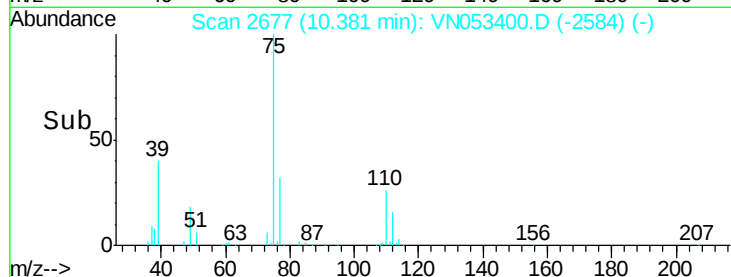
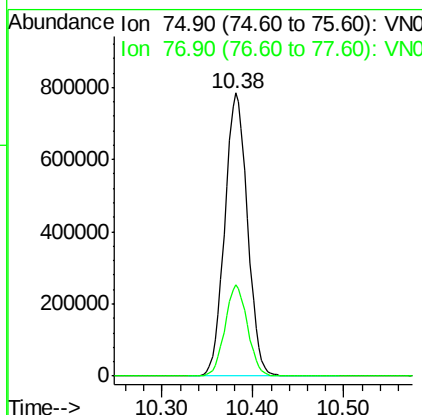
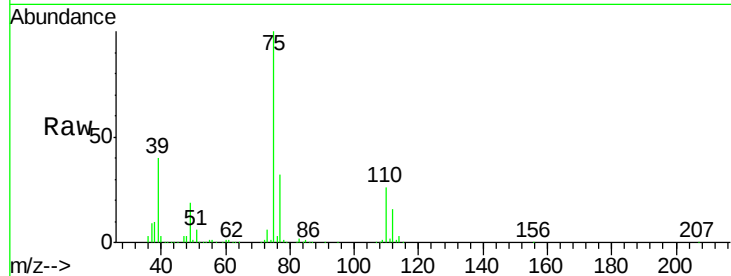
#53
t-1,3-Dichloropropene
Concen: 107.575 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 75 Resp: 1360953
Ion Ratio Lower Upper
75 100
77 32.1 25.0 37.4

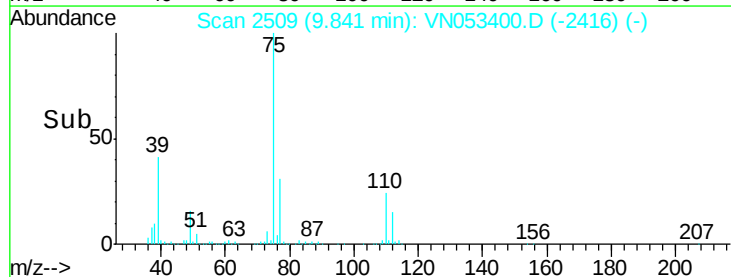
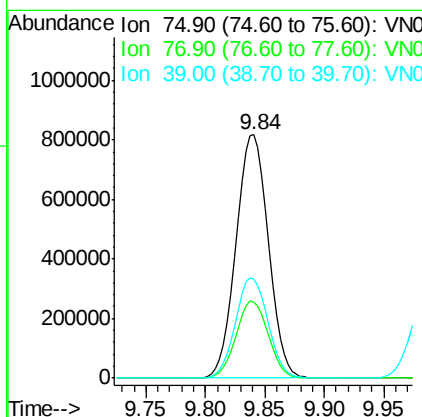
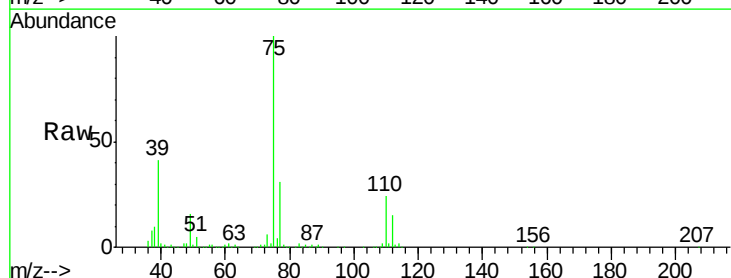
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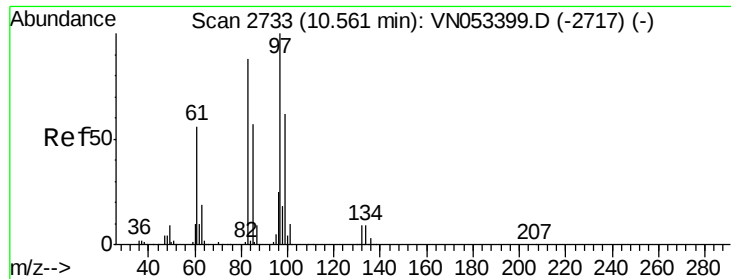
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 103.901 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 75 Resp: 1540900
Ion Ratio Lower Upper
75 100
77 31.4 25.1 37.7
39 40.8 33.1 49.7





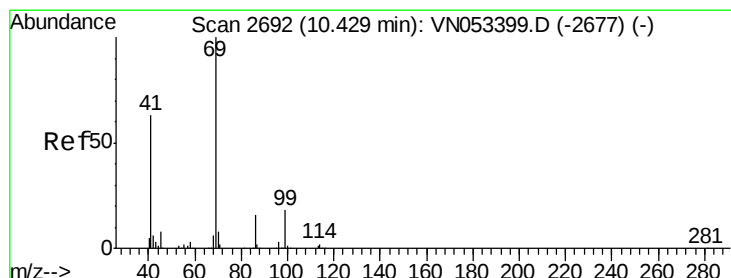
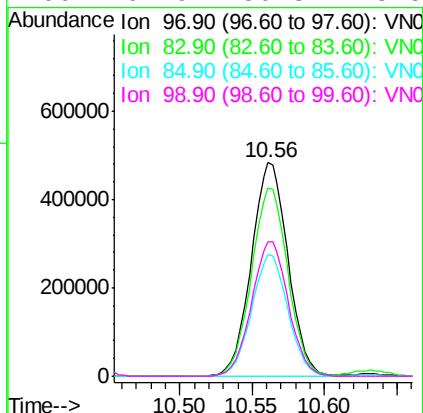
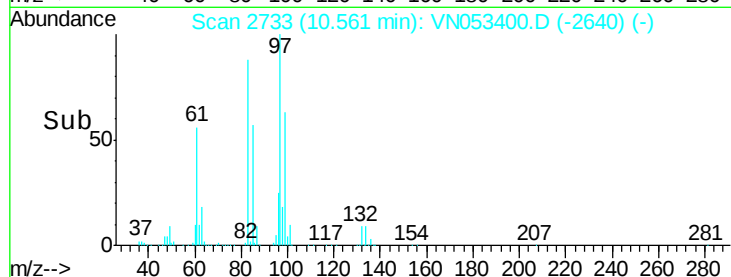
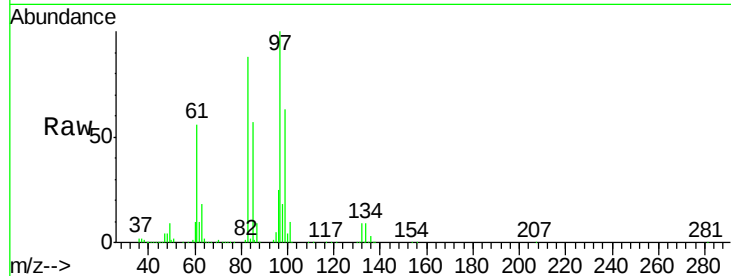
#55
 1,1,2-Trichloroethane
 Concen: 101.714 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	849081
Ion	Ratio	Lower	Upper
97	100		
83	88.2	69.1	103.7
85	57.1	44.2	66.4
99	62.9	50.3	75.5

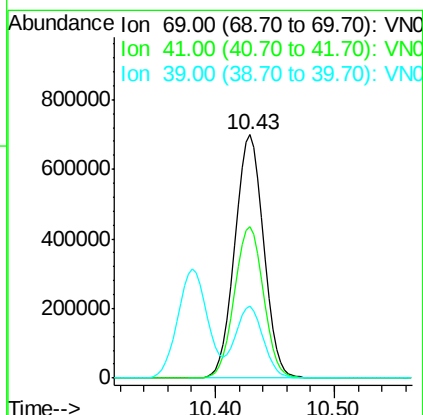
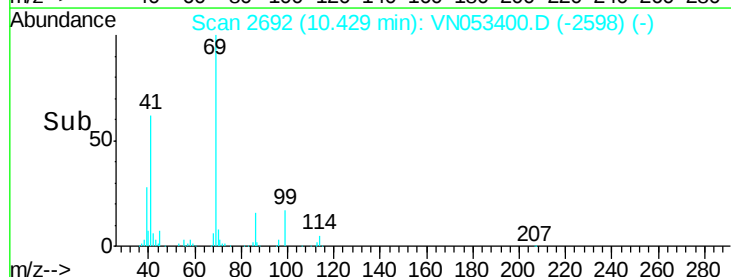
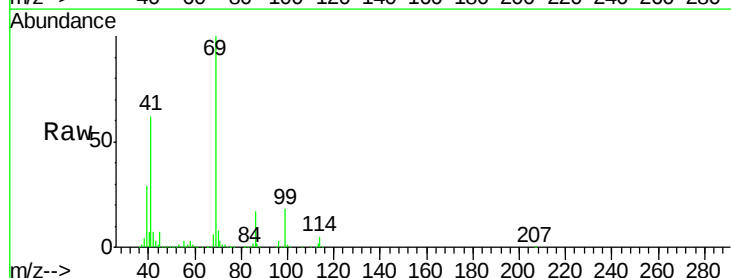
Manual Integrations
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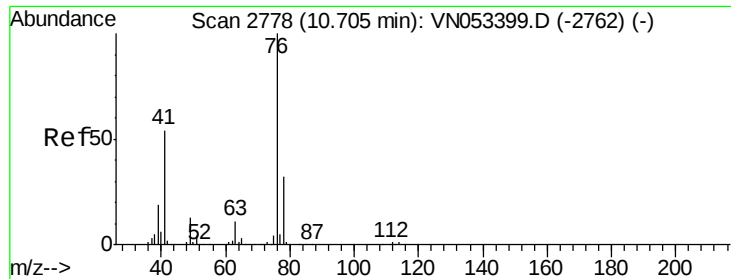
MMDadoda
 1/16/2019 9:51:02 AM



#56
 Ethyl methacrylate
 Concen: 97.098 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion:	69	Resp:	1174251
Ion	Ratio	Lower	Upper
69	100		
41	62.4	49.2	73.8
39	28.6	23.4	35.0





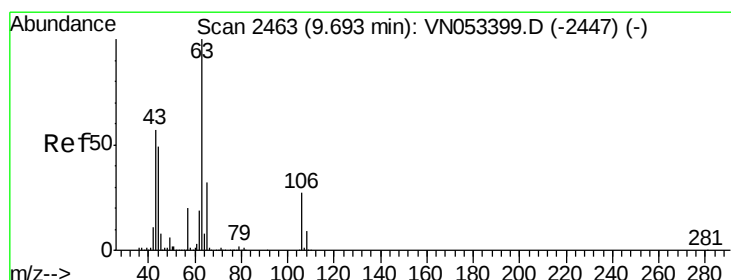
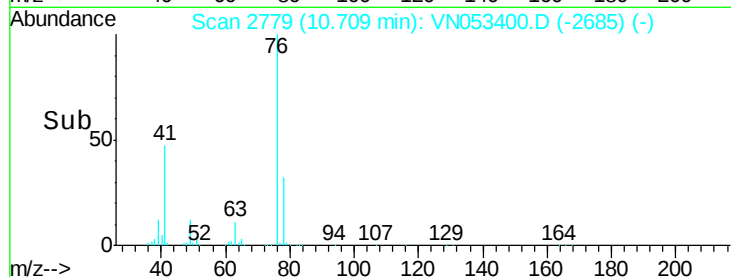
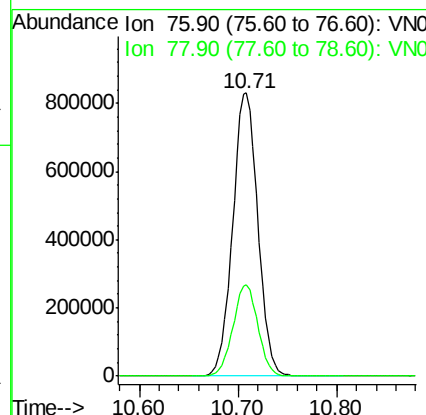
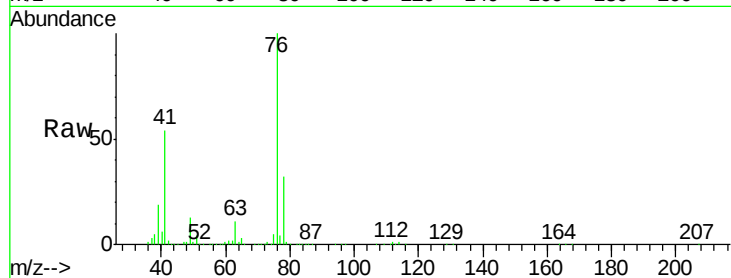
#57
 1,3-Dichloropropane
 Concen: 102.171 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 76 Resp: 1475408
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.8 38.8

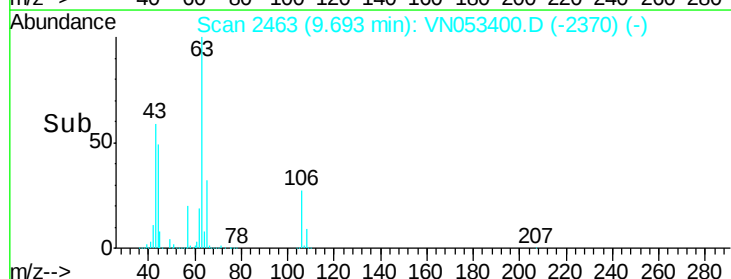
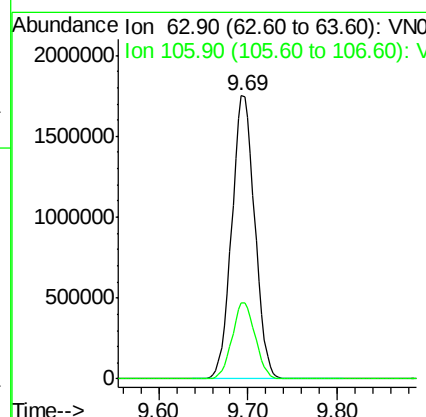
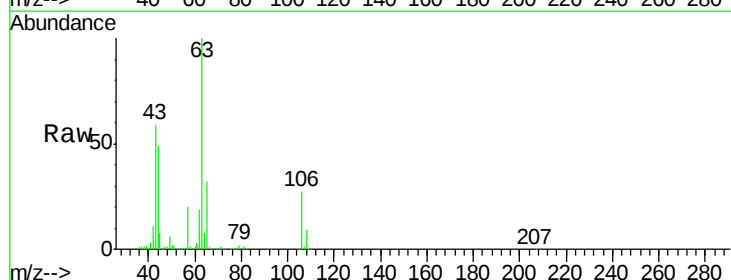
Manual Integrations
 APPROVED

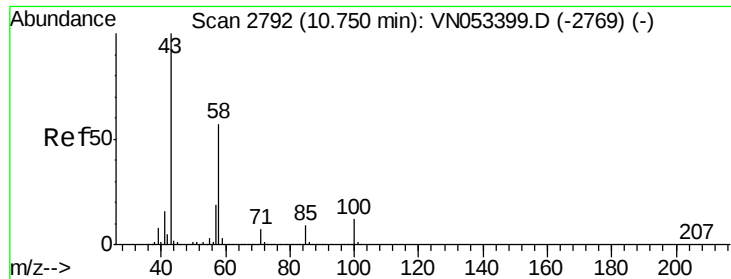
MMDadoda
 1/16/2019 9:51:02 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 533.161 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion: 63 Resp: 3113645
 Ion Ratio Lower Upper
 63 100
 106 27.1 21.7 32.5





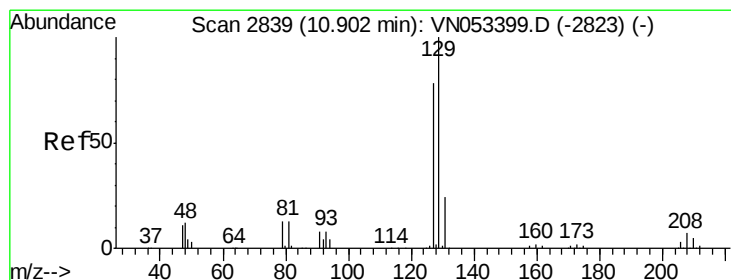
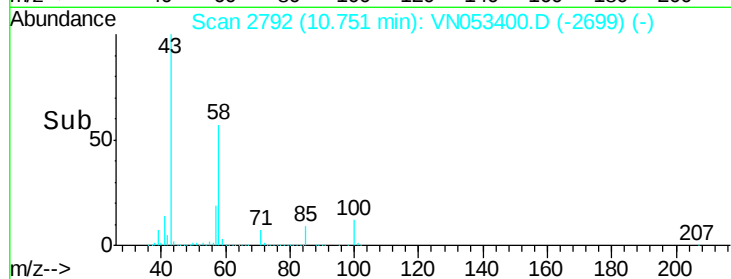
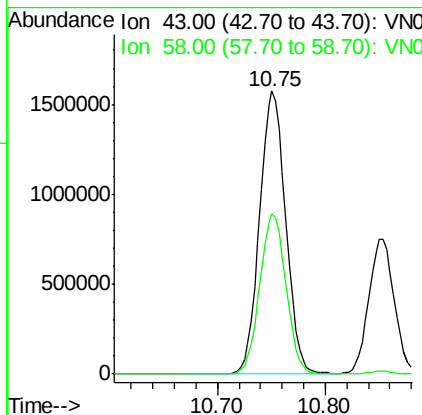
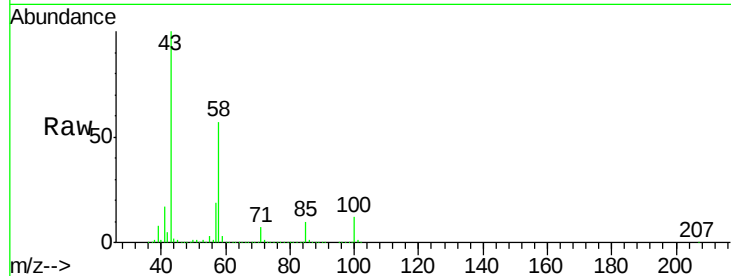
#59
2-Hexanone
Concen: 517.627 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 2633694
Ion Ratio Lower Upper
43 100
58 57.1 28.3 85.0

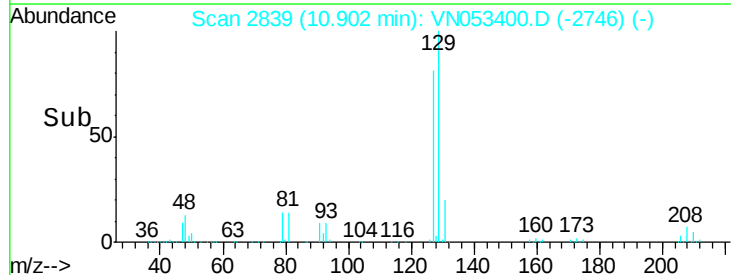
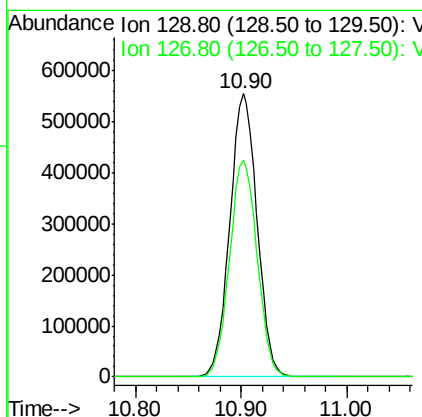
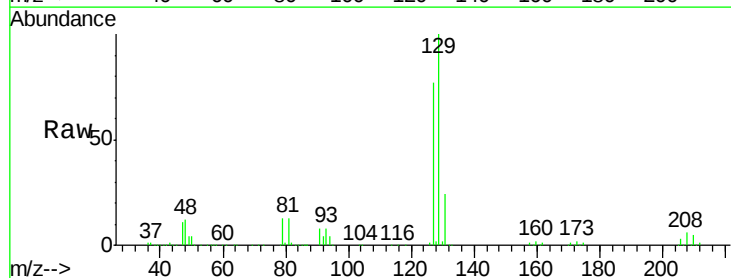
Manual Integrations
APPROVED

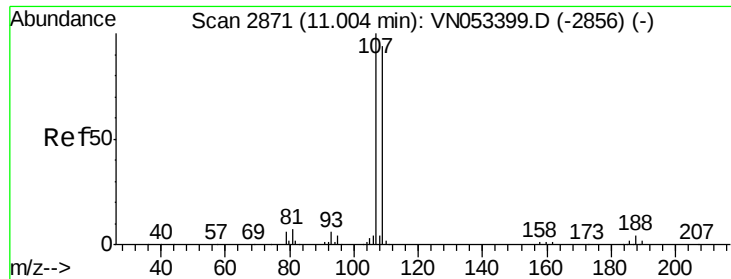
MMDadoda
1/16/2019 9:51:02 AM



#60
Dibromochloromethane
Concen: 104.620 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 129 Resp: 990550
Ion Ratio Lower Upper
129 100
127 77.6 38.4 115.2





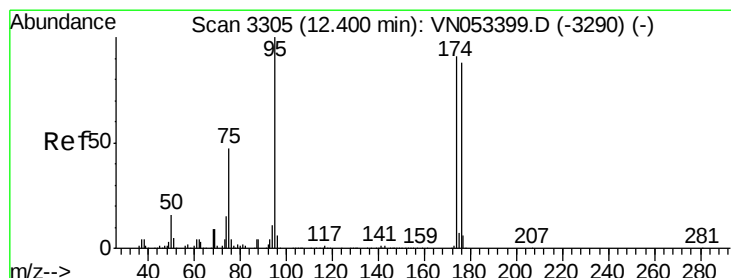
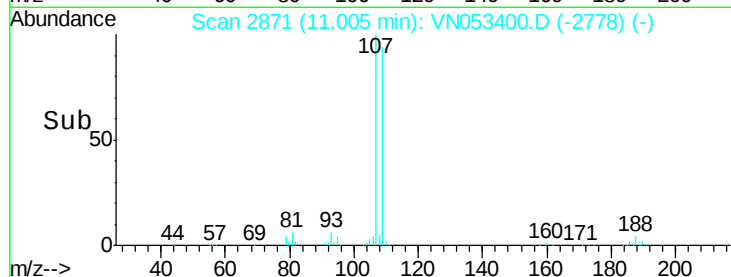
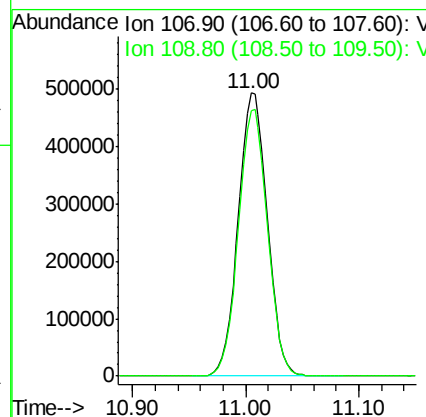
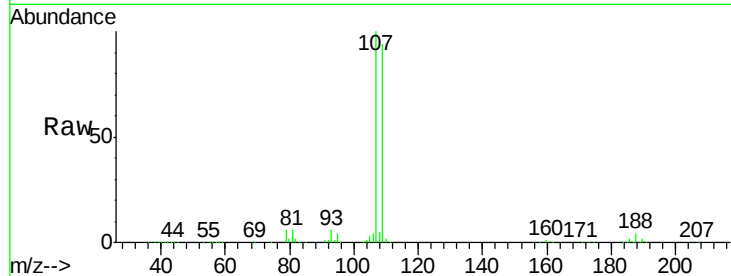
#61
 1,2-Dibromoethane
 Concen: 104.749 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.0	112.6

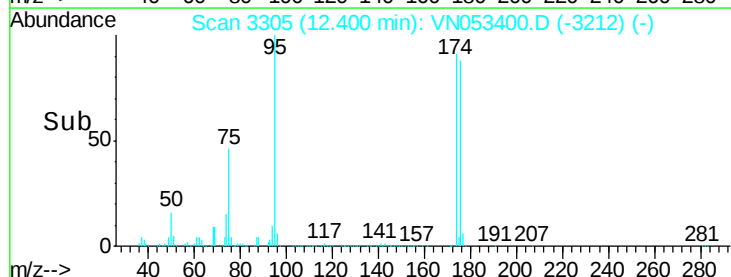
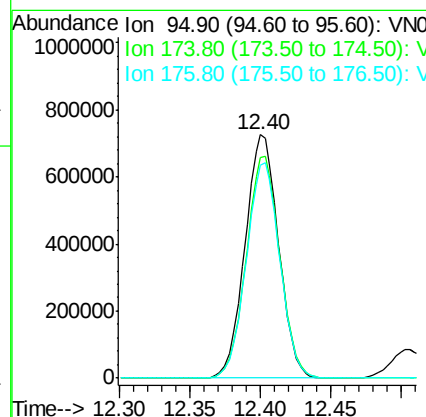
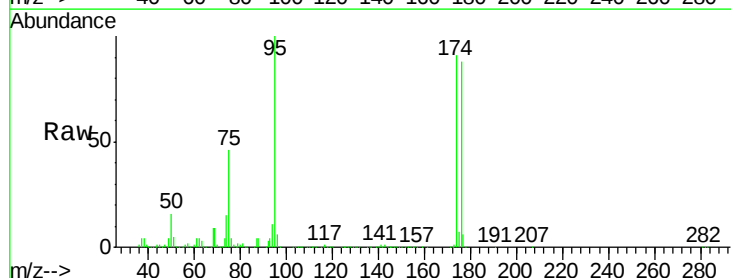
Manual Integrations
 APPROVED

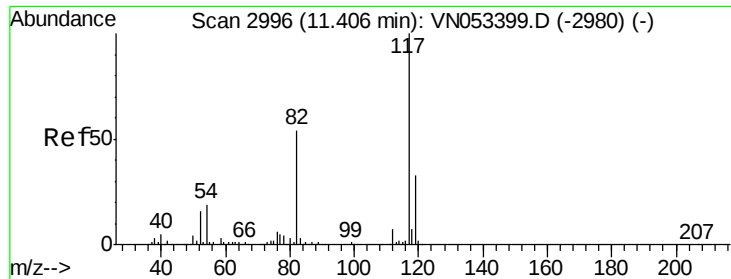
MMDadoda
 1/16/2019 9:51:02 AM



#62
 4-Bromofluorobenzene
 Concen: 104.749 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.2	0.0	180.4
176	88.6	0.0	175.6





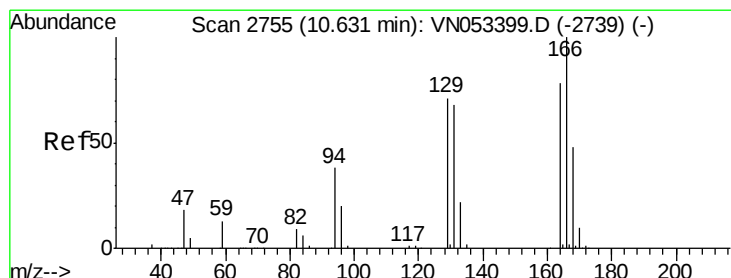
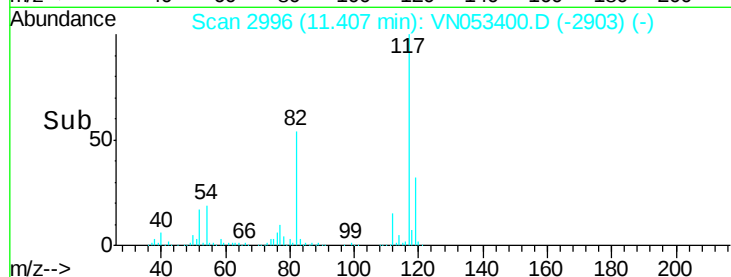
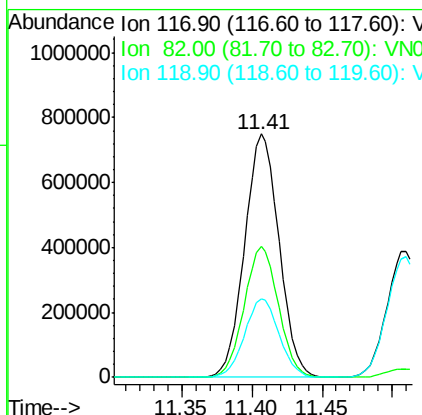
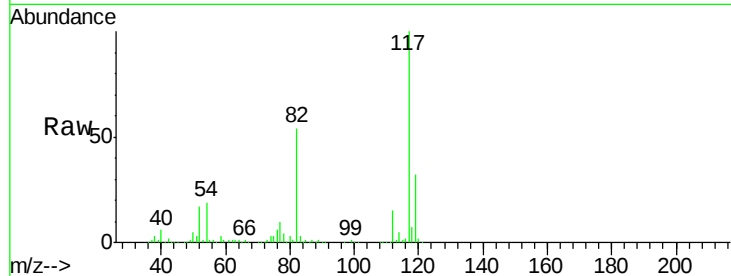
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	42.9	64.3
119	32.4	25.6	38.4

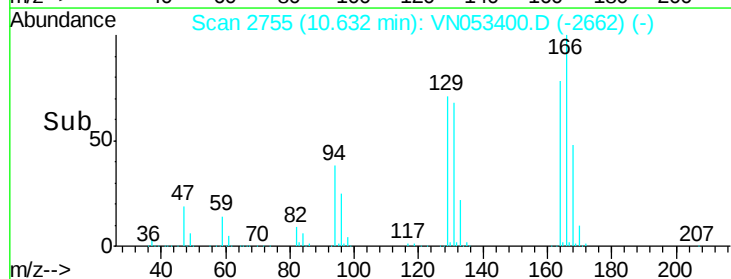
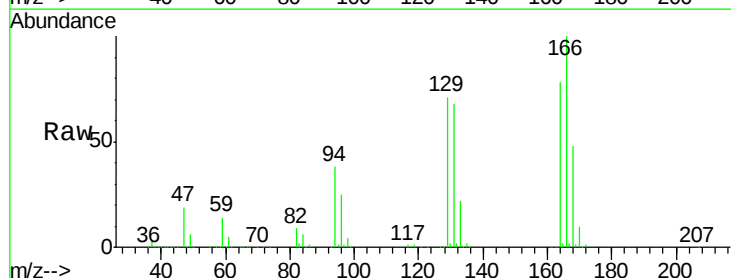
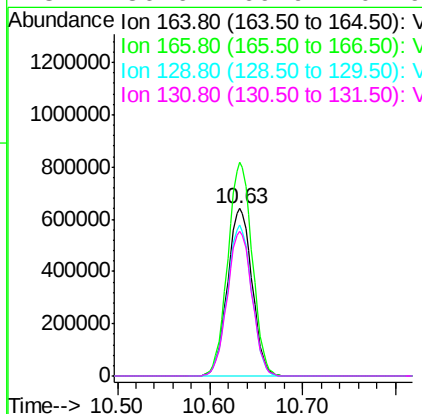
Manual Integrations
APPROVED

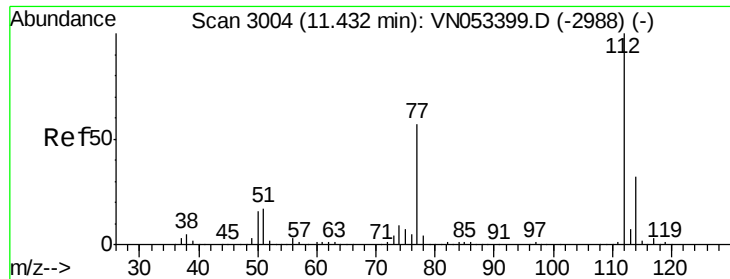
MMDadoda
1/16/2019 9:51:02 AM



#64
Tetrachloroethene
Concen: 97.087 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.6	101.7	152.5
129	90.0	72.1	108.1
131	86.6	69.9	104.9





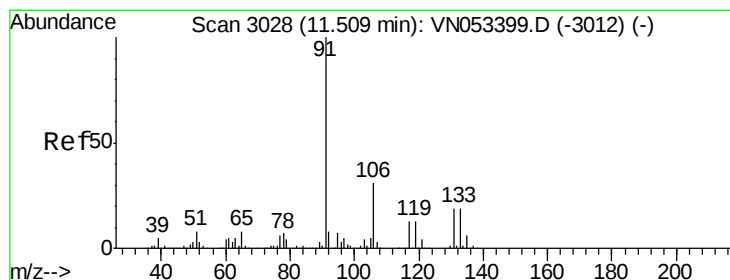
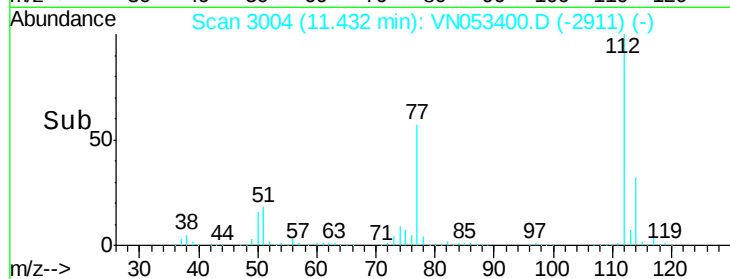
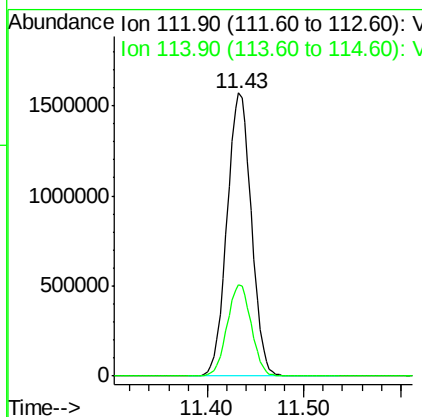
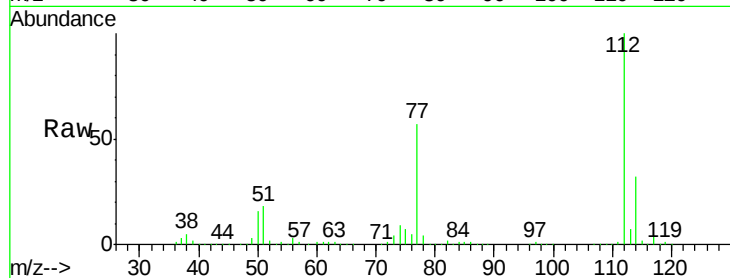
#65
Chlorobenzene
Concen: 100.901 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 2739220
Ion Ratio Lower Upper
112 100
114 32.2 25.6 38.4

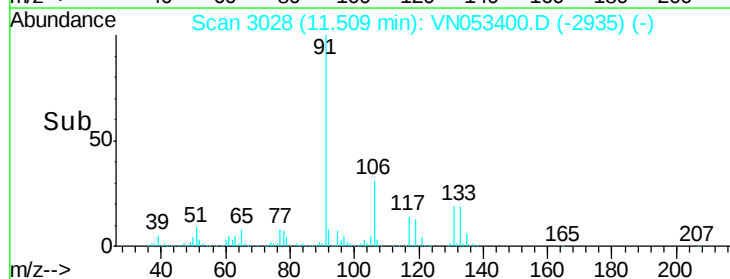
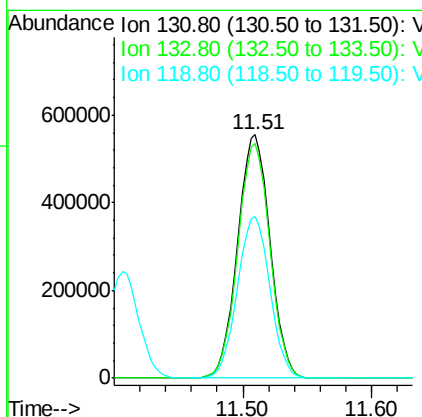
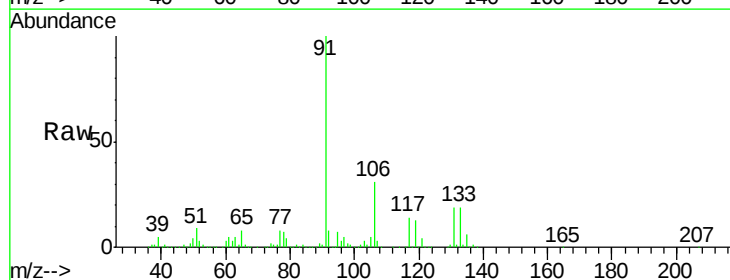
Manual Integrations
APPROVED

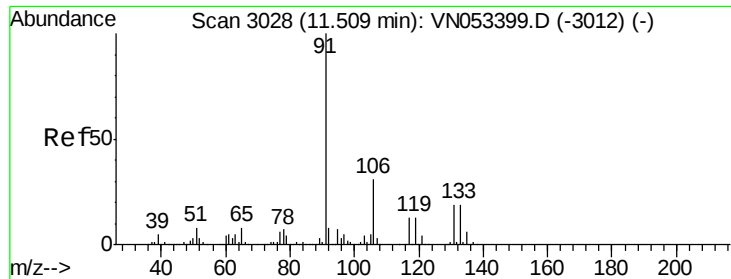
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 102.752 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion:131 Resp: 970418
Ion Ratio Lower Upper
131 100
133 95.8 48.0 144.0
119 66.6 33.3 99.9





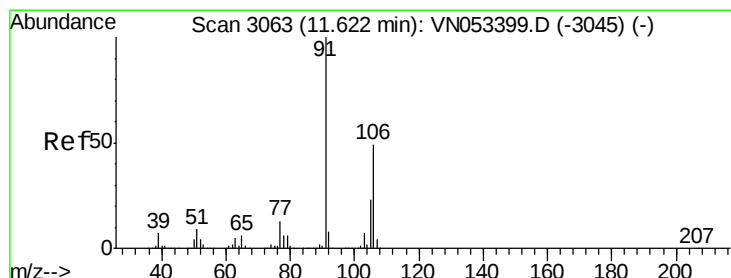
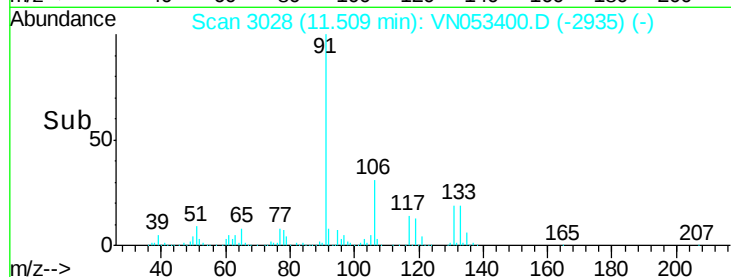
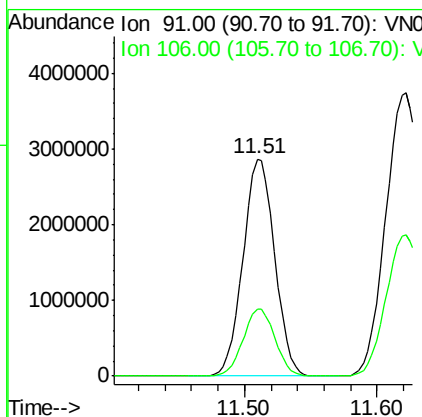
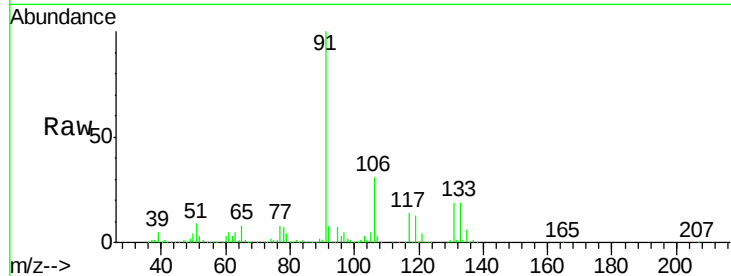
#67
Ethyl Benzene
Concen: 102.728 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 4752820
Ion Ratio Lower Upper
91 100
106 31.1 25.0 37.4

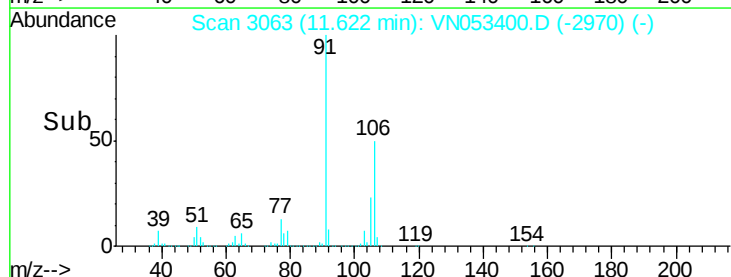
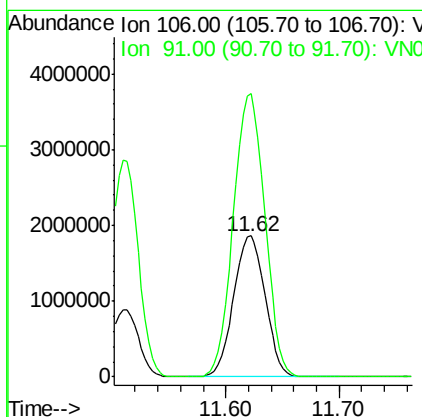
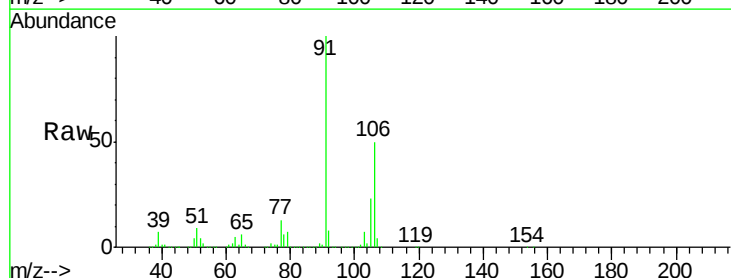
Manual Integrations
APPROVED

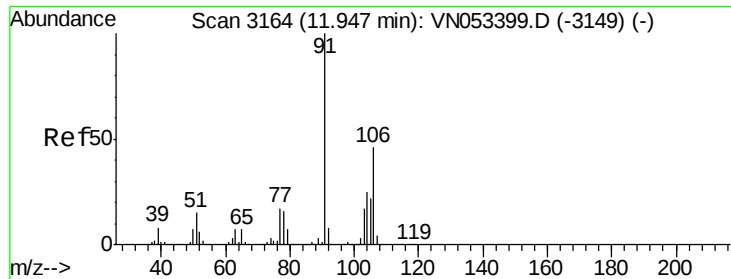
MMDadoda
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#68
m/p-Xylenes
Concen: 207.100 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 106 Resp: 3617646
Ion Ratio Lower Upper
106 100
91 200.8 161.4 242.2





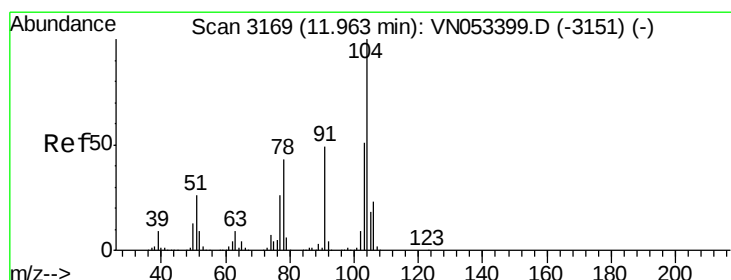
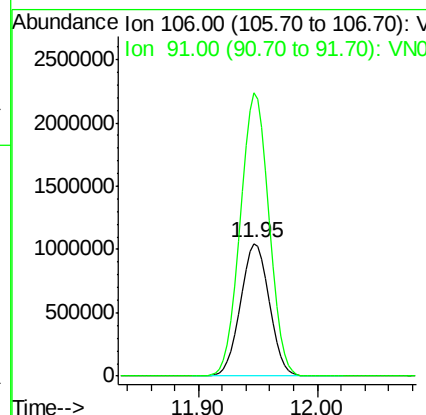
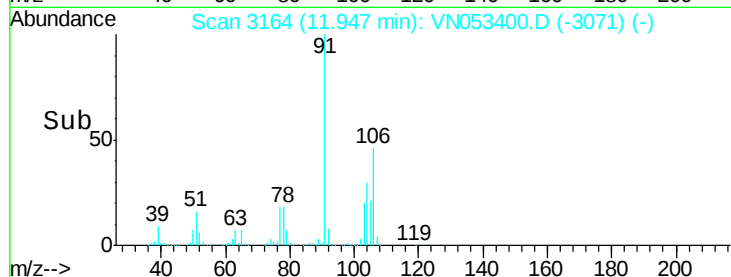
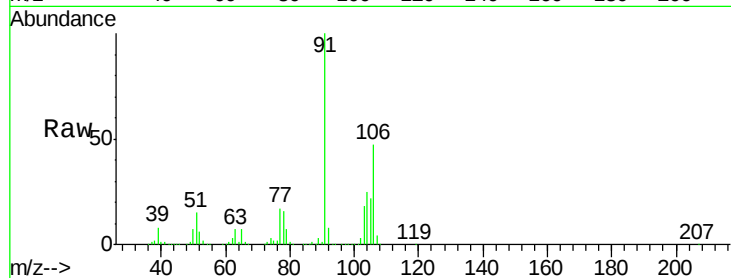
#69
o-Xylene
Concen: 103.256 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:106 Resp: 1752618
Ion Ratio Lower Upper
106 100
91 213.2 106.8 320.4

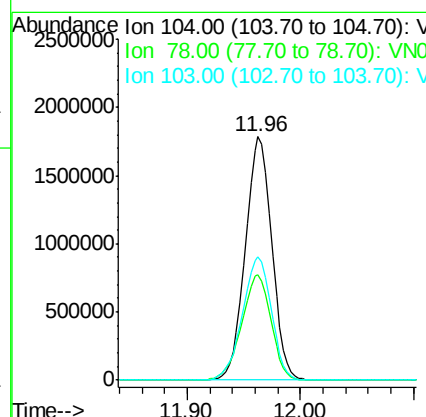
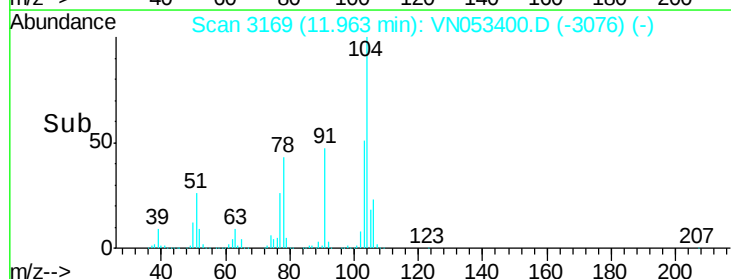
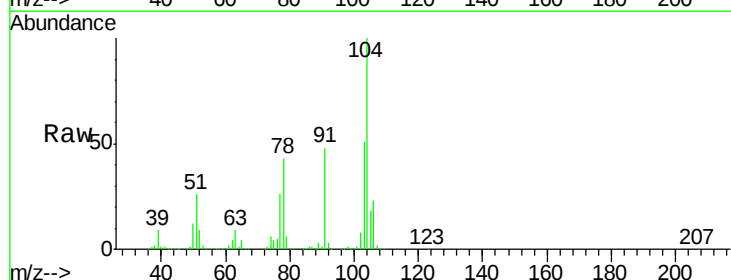
Manual Integrations
APPROVED

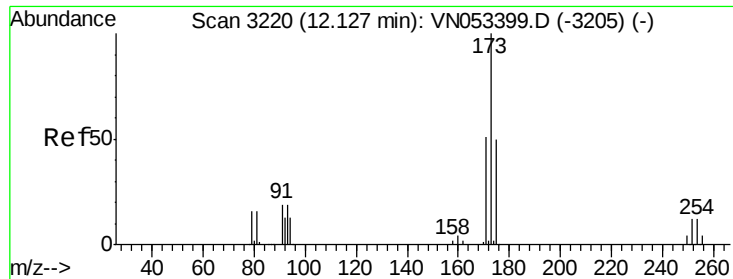
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#70
Styrene
Concen: 106.002 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion:104 Resp: 2920120
Ion Ratio Lower Upper
104 100
78 47.8 38.5 57.7
103 55.3 44.5 66.7





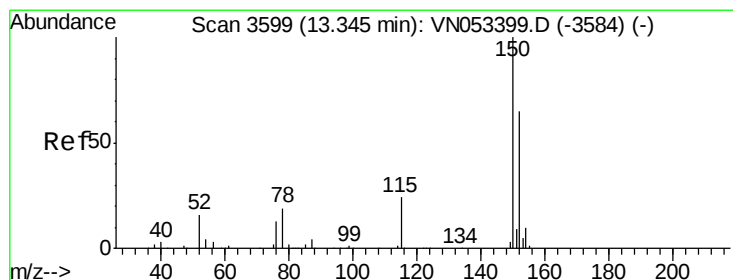
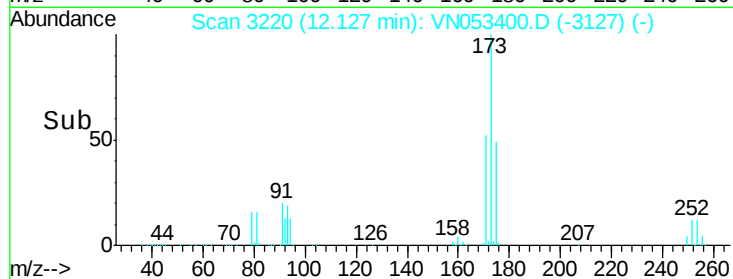
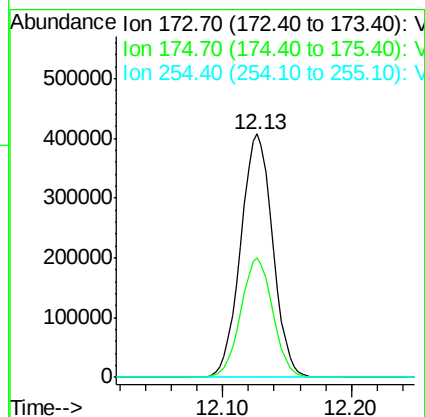
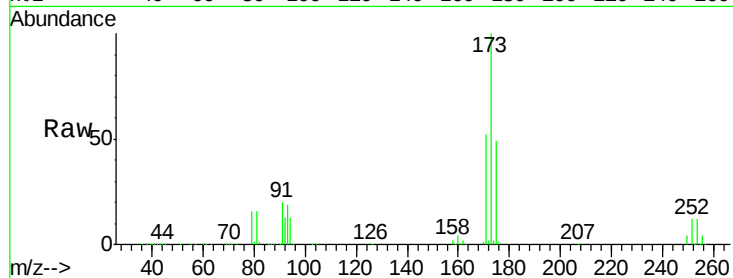
#71
Bromoform
Concen: 108.018 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	72.8
254	0.2	0.2	0.2

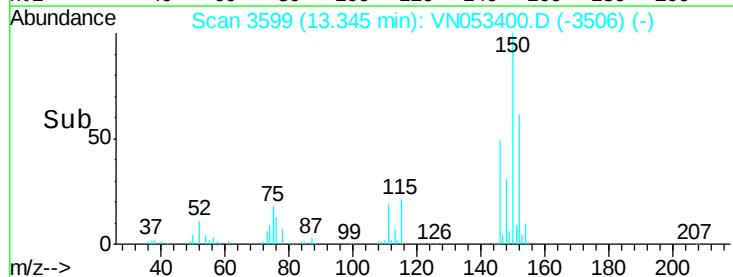
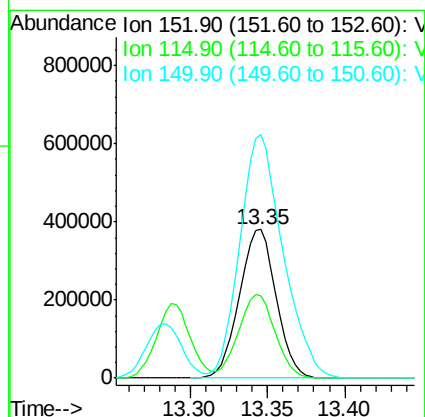
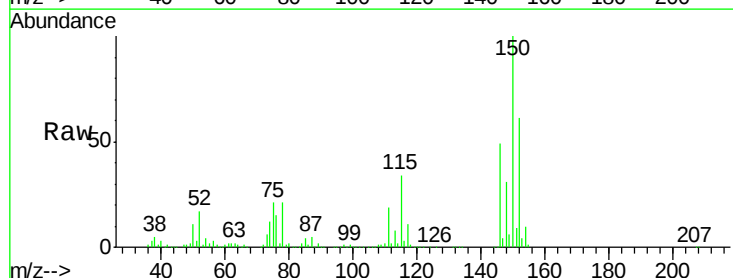
Manual Integrations
APPROVED

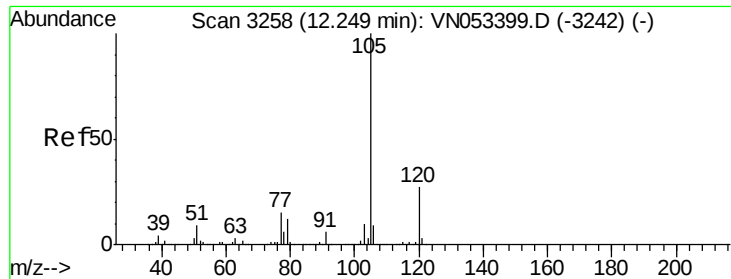
MMDadoda
1/16/2019 9:51:02 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.0	84.0
150	192.4	0.0	346.6





#73

Isopropylbenzene

Concen: 101.467 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 4662423

Ion Ratio Lower Upper

105 100

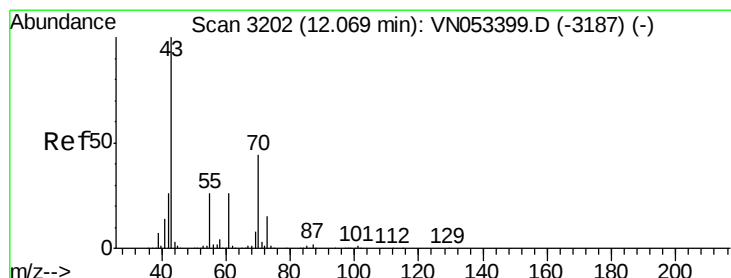
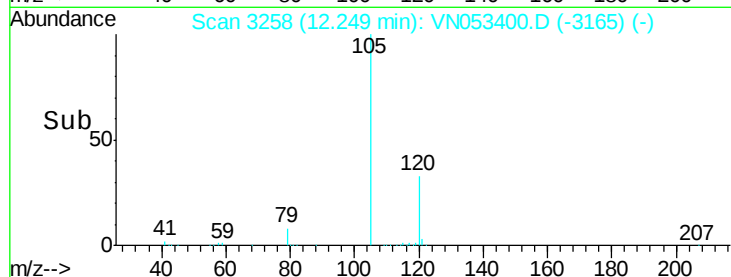
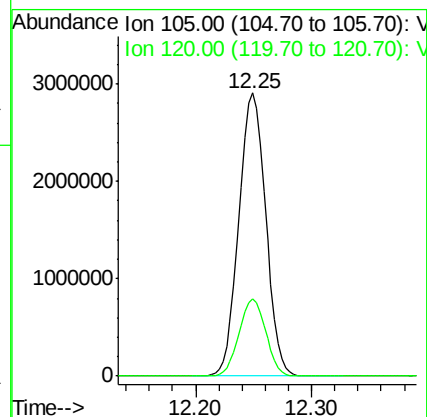
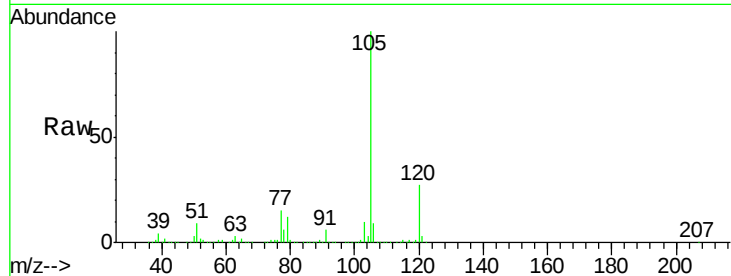
120 27.1 13.4 40.2

Manual Integrations

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#74

N-ethyl acetate

Concen: 107.689 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Tgt Ion: 43 Resp: 1319112

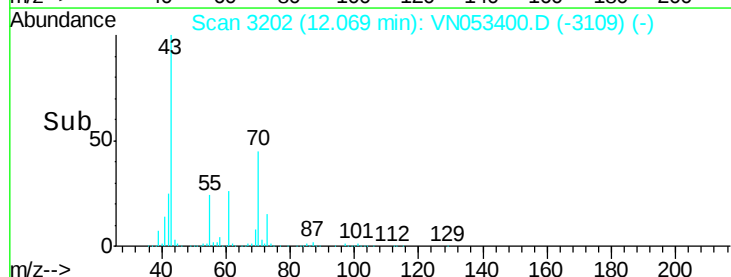
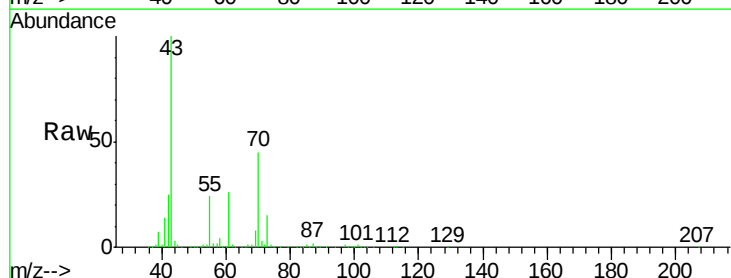
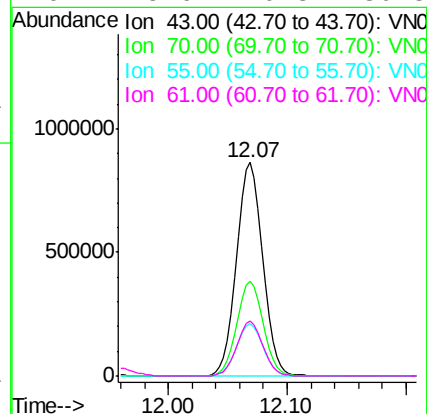
Ion Ratio Lower Upper

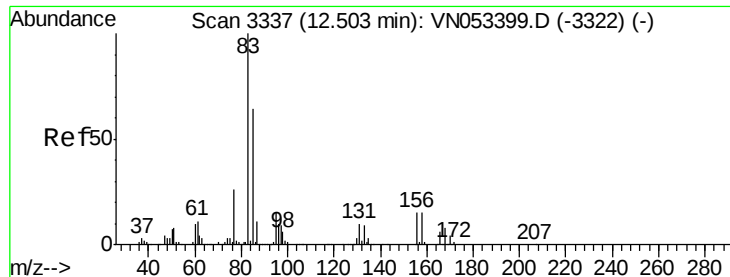
43 100

70 44.7 35.0 52.6

55 25.0 20.0 30.0

61 25.6 20.3 30.5





#75

1,1,2,2-Tetrachloroethane

Concen: 102.016 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 983126
Ion Ratio Lower Upper

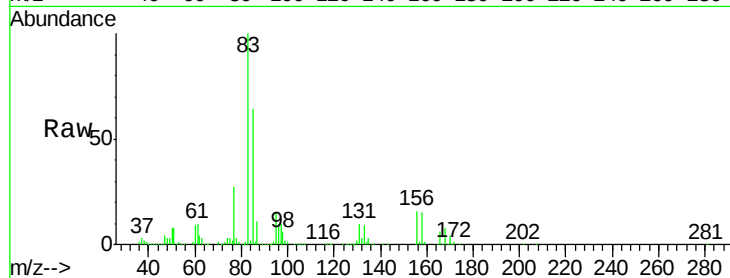
83 100

131 10.8 5.3 15.9

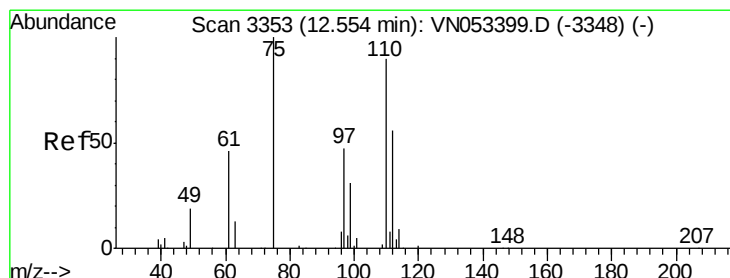
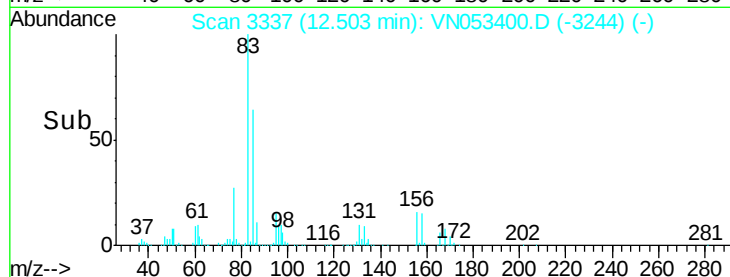
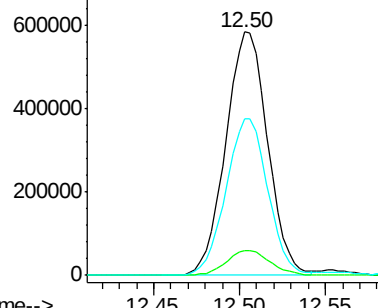
85 64.3 32.3 96.8

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN053399.D (-3322) (-)
Ion 130.80 (130.50 to 131.50): VN053399.D (-3322) (-)
Ion 84.90 (84.60 to 85.60): VN053399.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 108.404 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

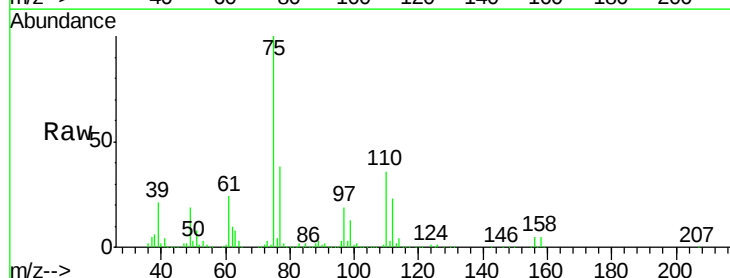
Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

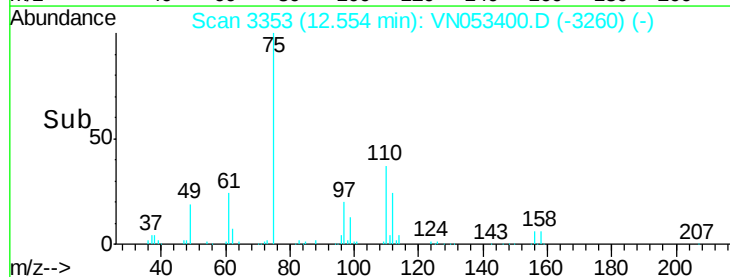
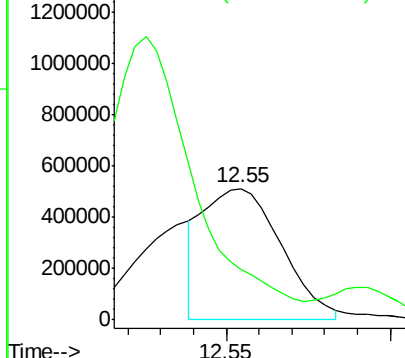
Tgt Ion: 75 Resp: 856418
Ion Ratio Lower Upper

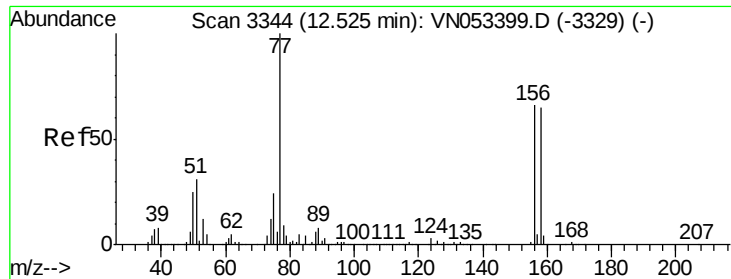
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-3348) (-)
Ion 77.00 (76.70 to 77.70): VN053399.D (-3348) (-)





#77

Bromobenzene

Concen: 100.359 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

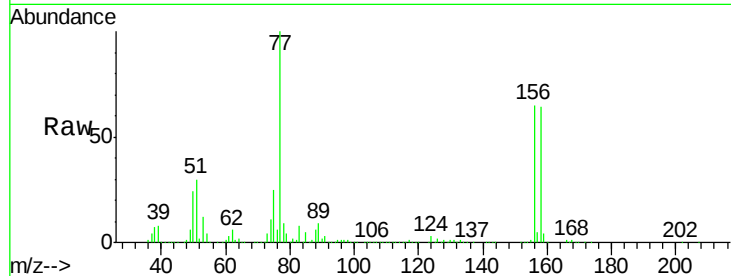
ClientSampled :

VSTDIC100

Tot Ion	Ratio	Lower	Upper
156	100		
77	176.3	89.3	268.1
158	98.0	48.9	146.8

Manual Integrations
APPROVED

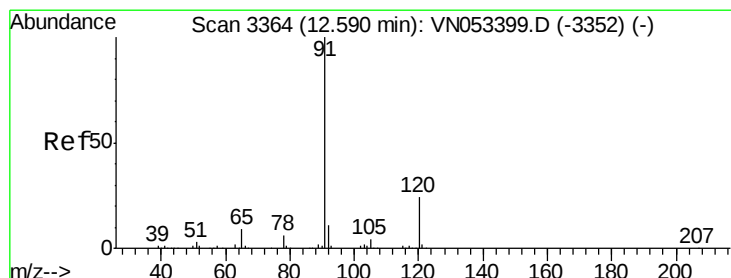
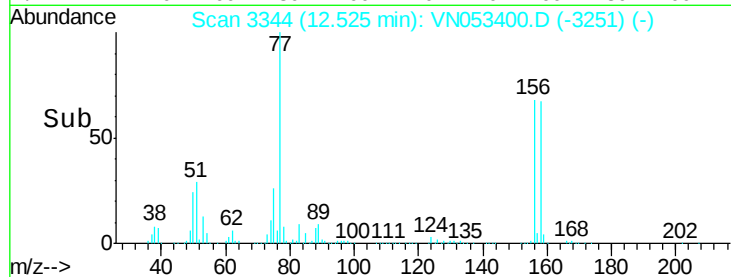
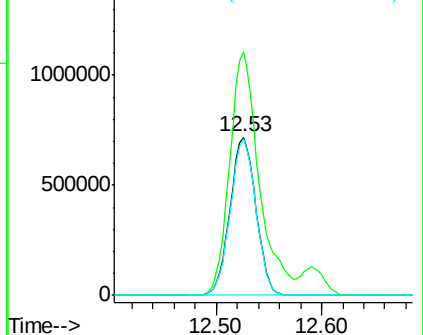
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 102.605 ug/l

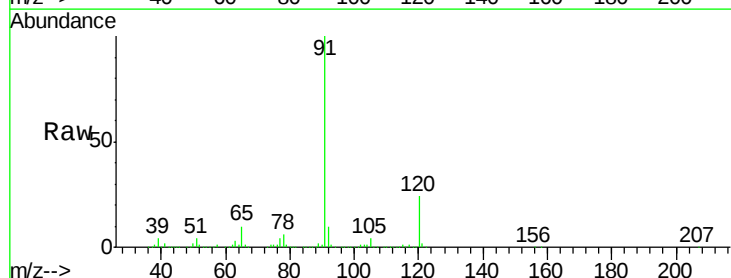
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053400.D

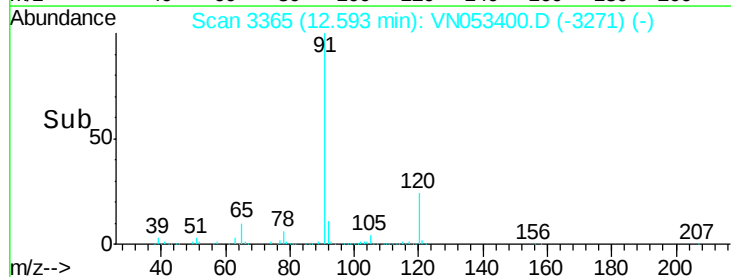
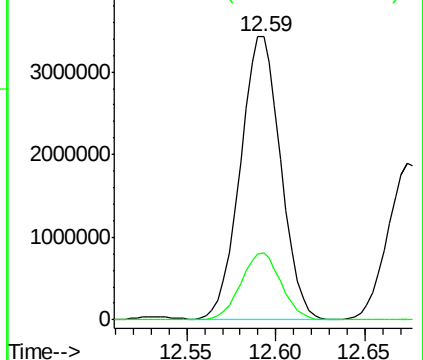
Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 99.984 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 91 Resp: 3125935

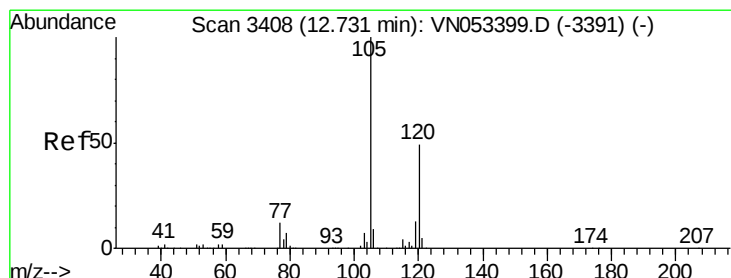
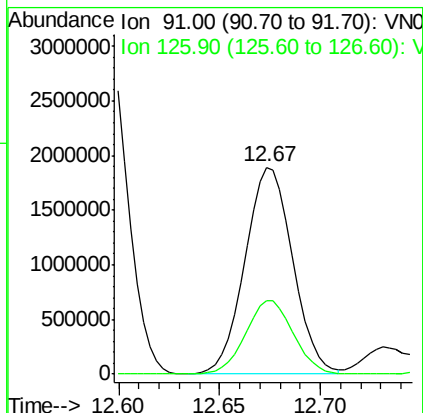
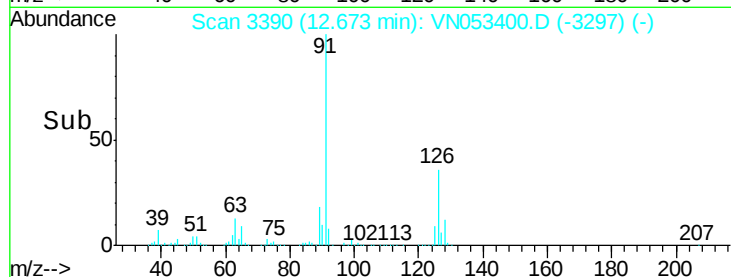
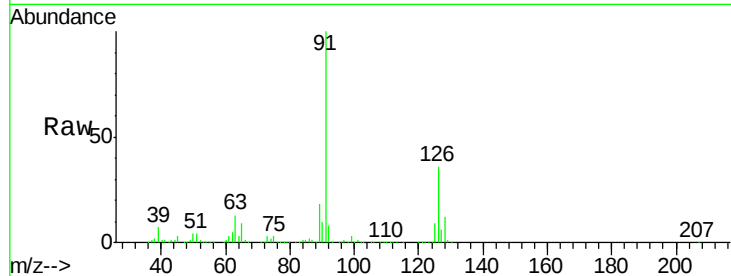
Ion Ratio Lower Upper

91 100

126 35.7 17.5 52.5

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 102.576 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053400.D

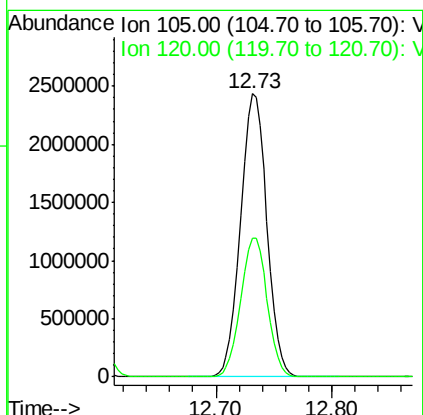
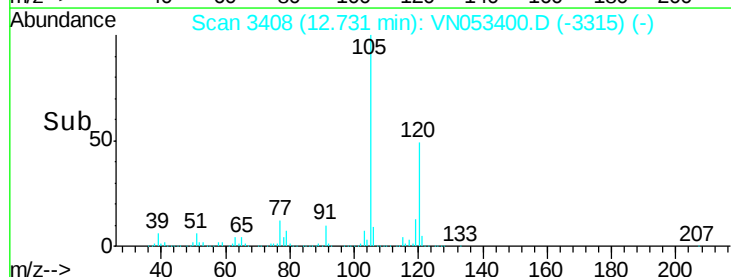
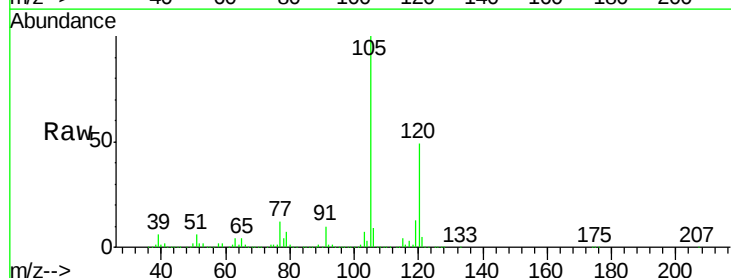
Acq: 15 Jan 2019 11:02

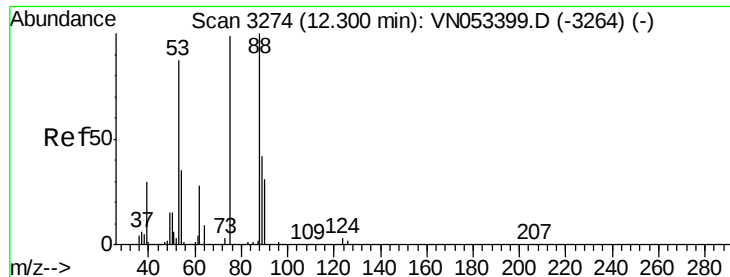
Tgt Ion: 105 Resp: 3834904

Ion Ratio Lower Upper

105 100

120 49.5 24.7 74.1





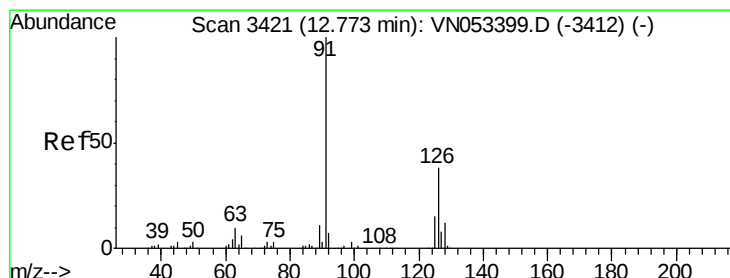
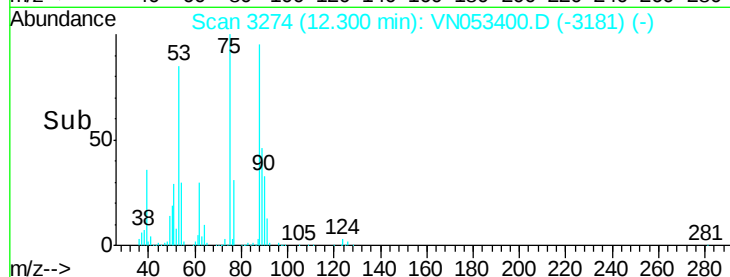
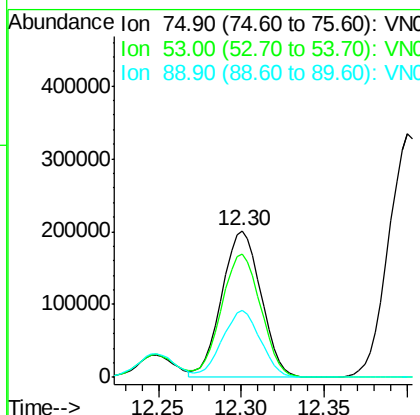
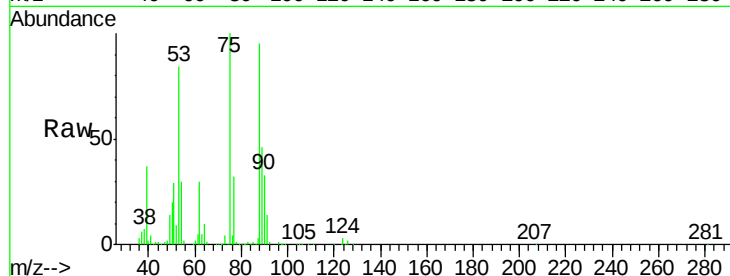
#81
trans-1,4-Dichloro-2-butene
Concen: 98.062 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
75	100		
53	85.5	70.5	105.7
89	44.9	35.4	53.0

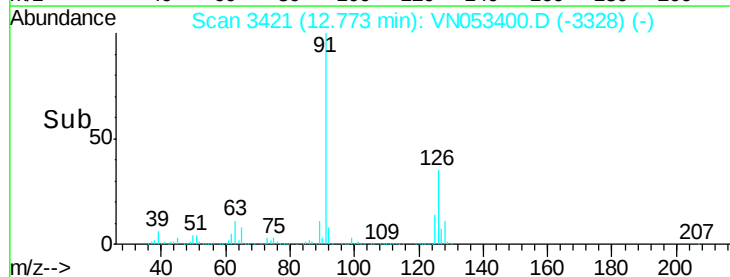
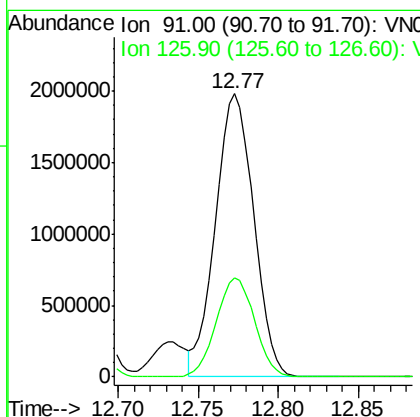
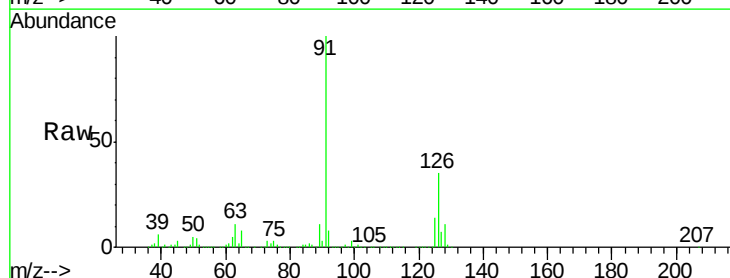
Manual Integrations
APPROVED

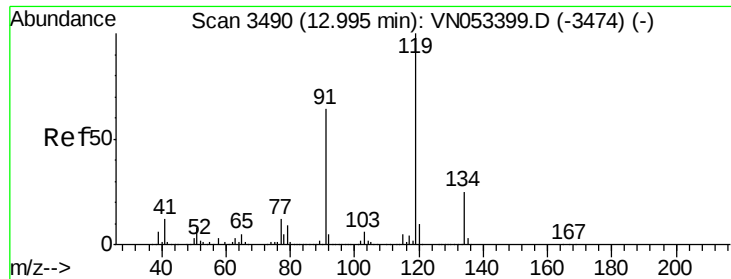
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#82
4-Chlorotoluene
Concen: 101.718 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.4	52.2





#83

tert-Butylbenzene

Concen: 103.182 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:119 Resp: 3407100

Ion Ratio Lower Upper

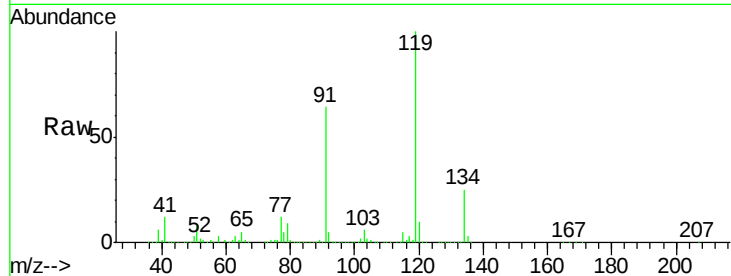
119 100

91 62.0 31.6 95.0

134 25.7 12.9 38.6

Manual Integrations
APPROVED

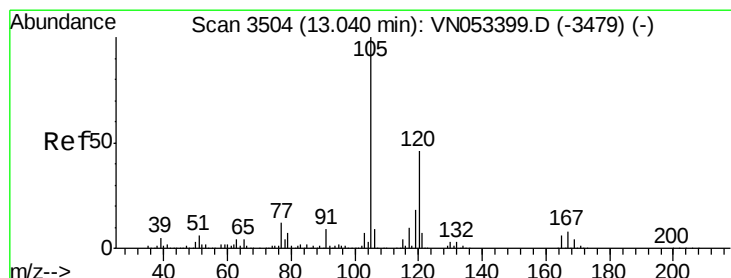
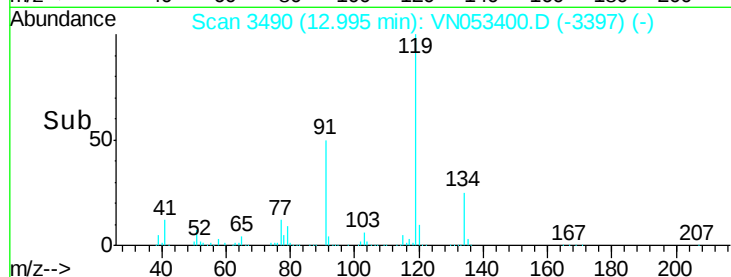
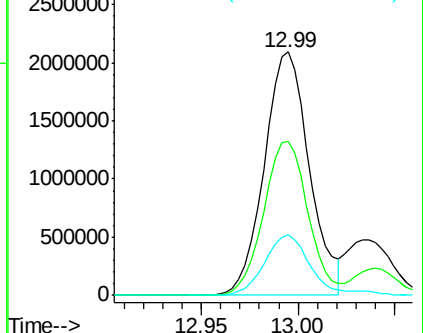
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 102.989 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053400.D

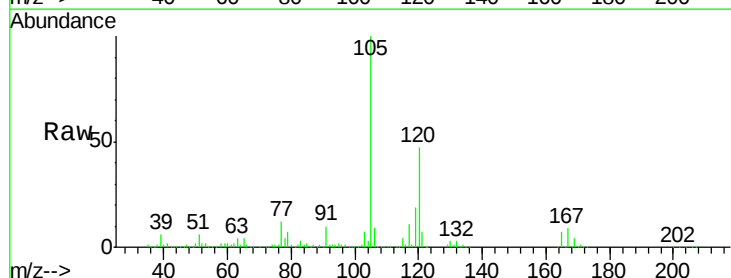
Acq: 15 Jan 2019 11:02

Tgt Ion:105 Resp: 3882335

Ion Ratio Lower Upper

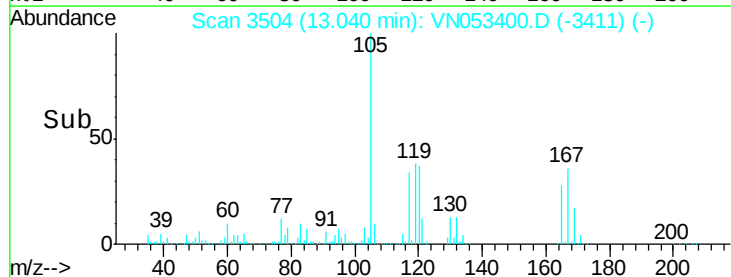
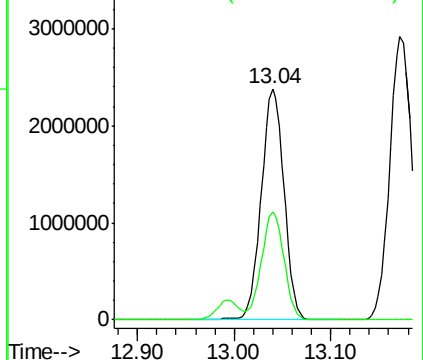
105 100

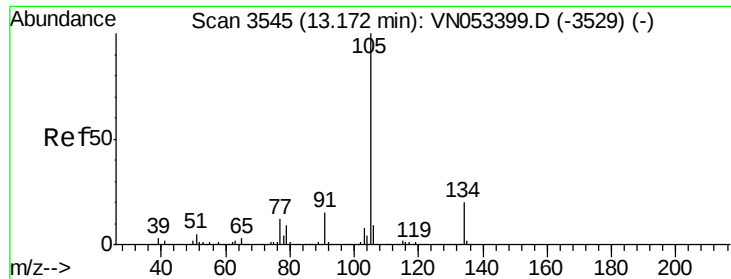
120 46.3 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 102.526 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 4642964

Ion Ratio Lower Upper

105 100

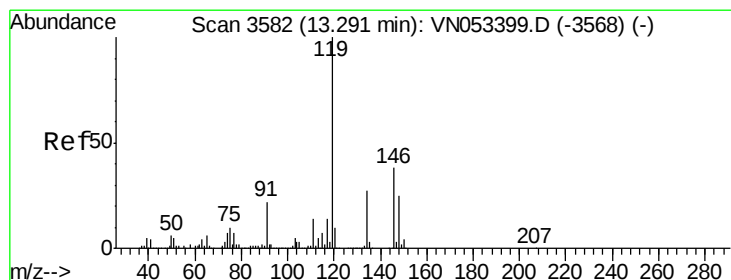
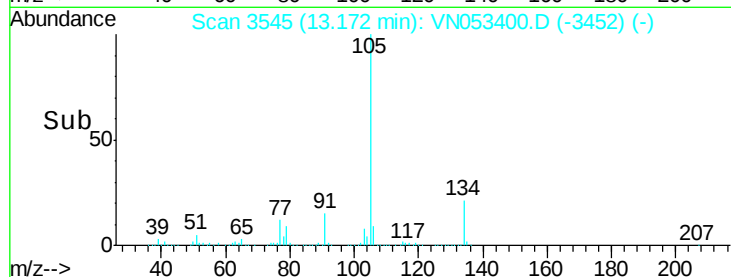
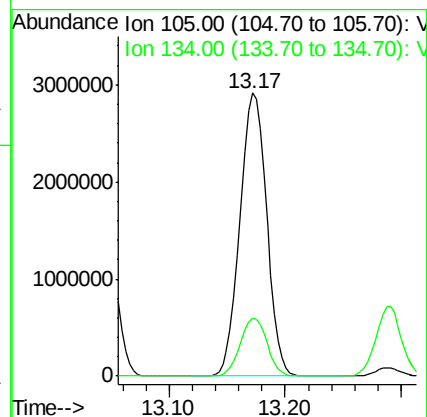
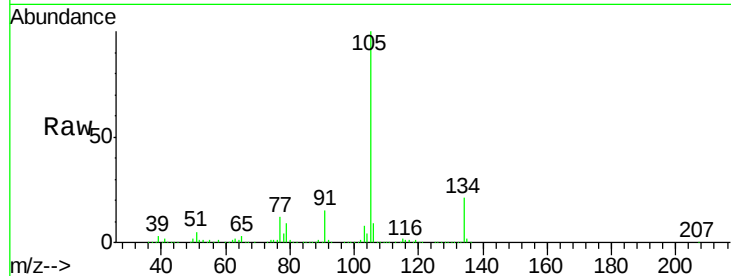
134 20.6 10.2 30.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 104.510 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

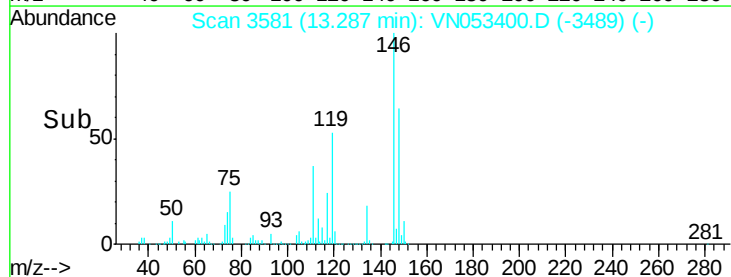
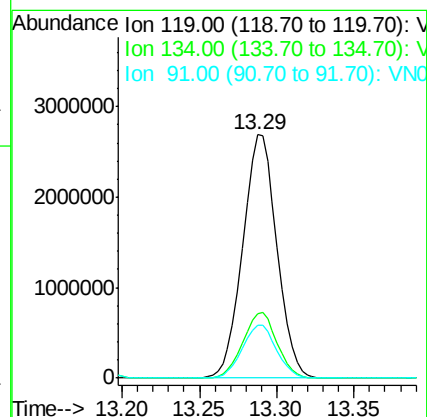
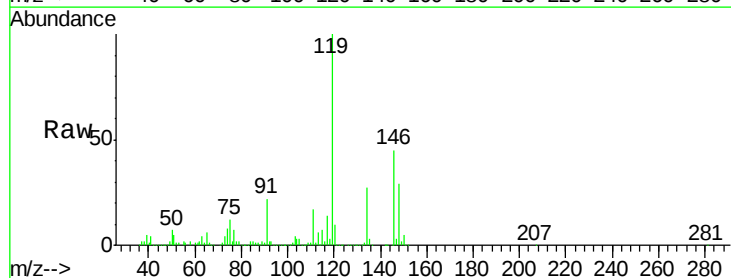
Tgt Ion:119 Resp: 4109443

Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.1

91 21.9 11.1 33.1





#87

1,3-Dichlorobenzene

Concen: 101.897 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 2170241

Ion Ratio Lower Upper

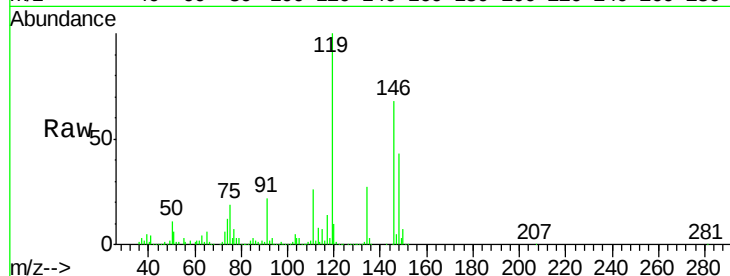
146 100

111 37.7 18.9 56.5

148 63.8 32.0 96.2

Manual Integrations
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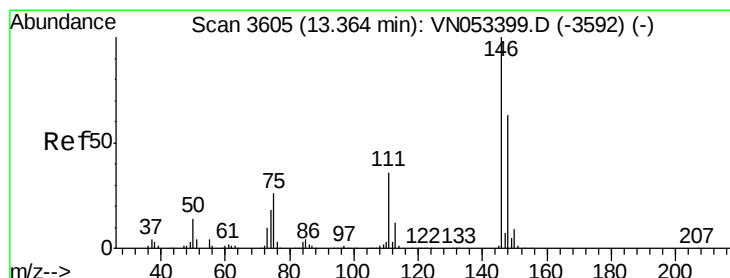
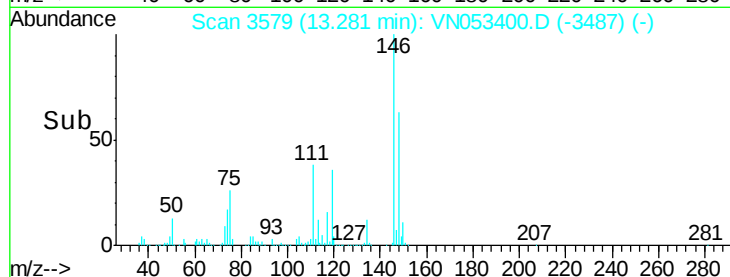
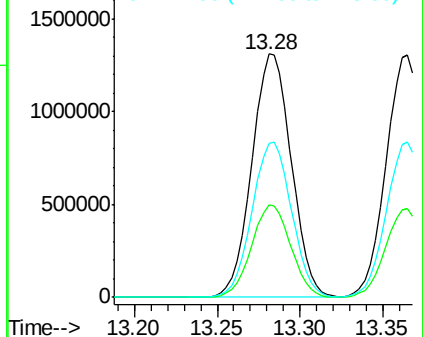
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Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 99.847 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

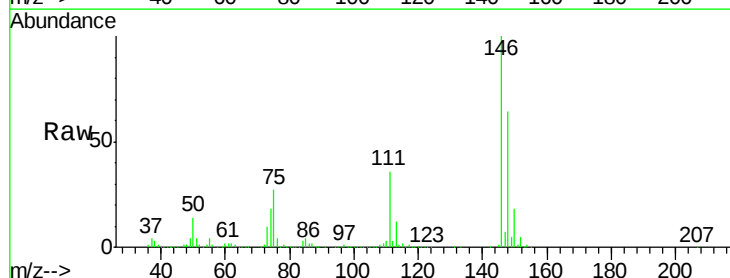
Tgt Ion:146 Resp: 2133161

Ion Ratio Lower Upper

146 100

111 36.8 18.6 55.8

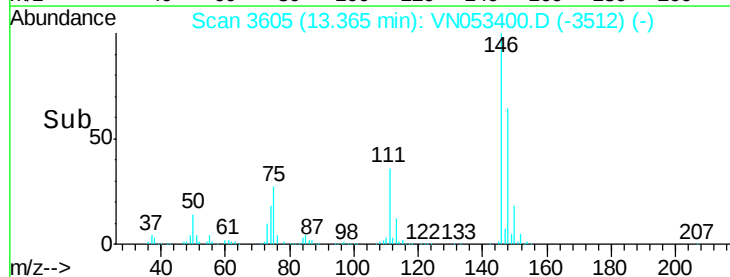
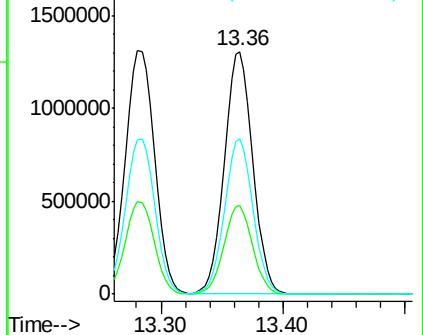
148 64.1 32.0 96.0

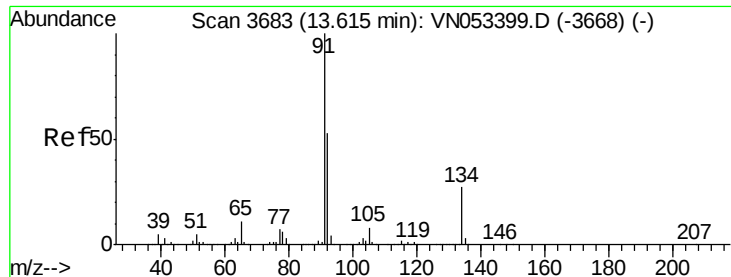


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





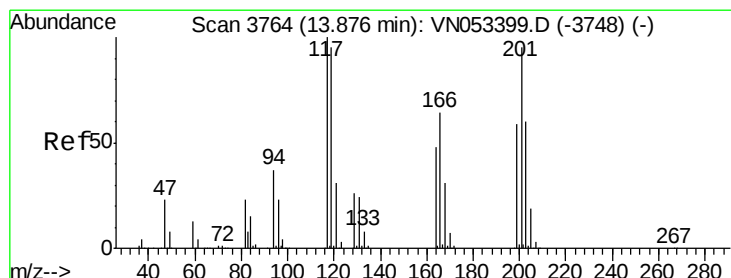
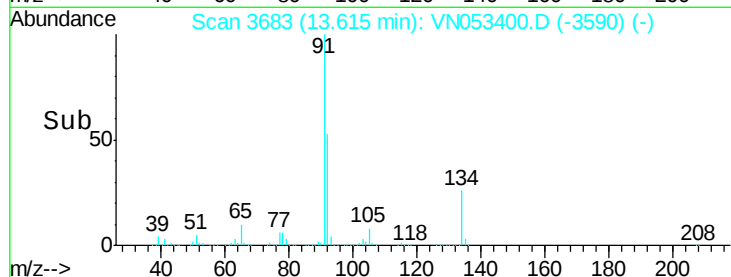
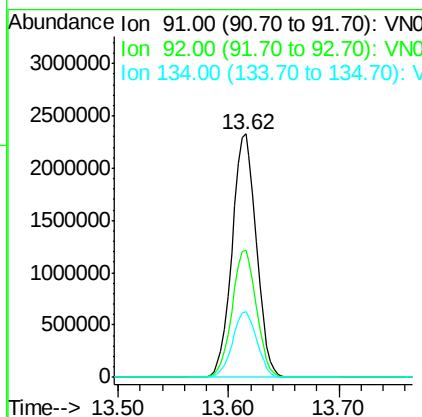
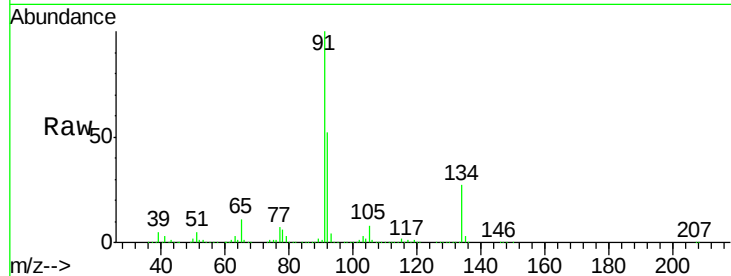
#89
n-Butylbenzene
Concen: 105.889 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 3549138
Ion Ratio Lower Upper
91 100
92 52.5 26.3 78.8
134 27.0 13.5 40.5

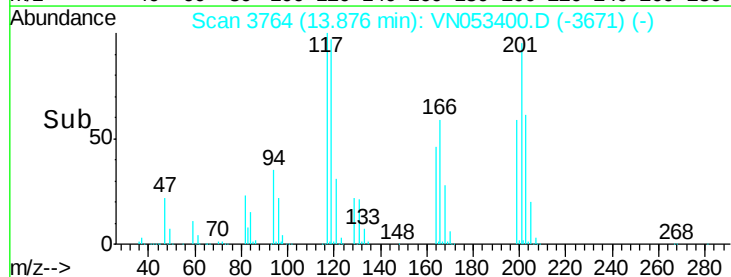
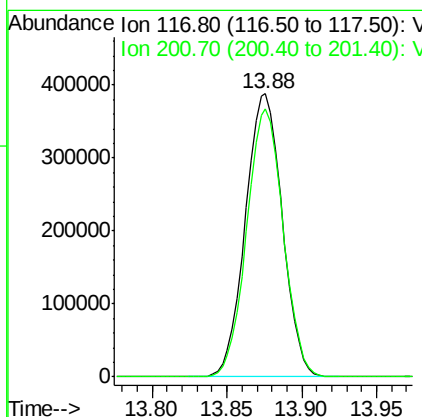
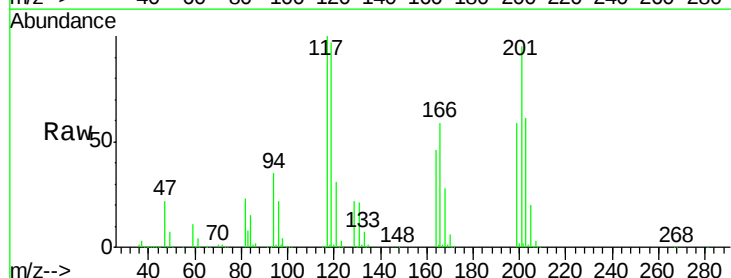
Manual Integrations
APPROVED

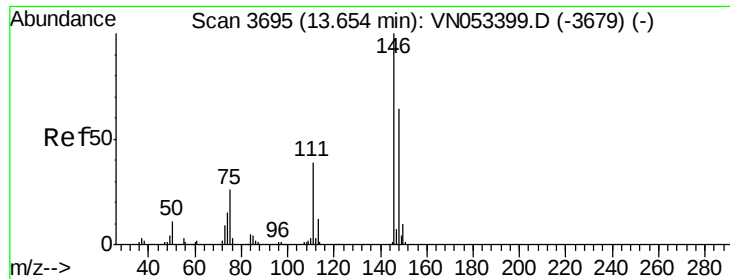
MMDadoda
1/16/2019 9:51:02 AM



#90
Hexachloroethane
Concen: 107.874 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053400.D
Acq: 15 Jan 2019 11:02

Tgt Ion: 117 Resp: 665248
Ion Ratio Lower Upper
117 100
201 93.7 46.1 138.3





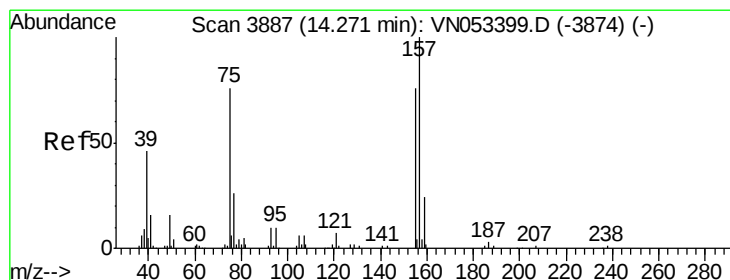
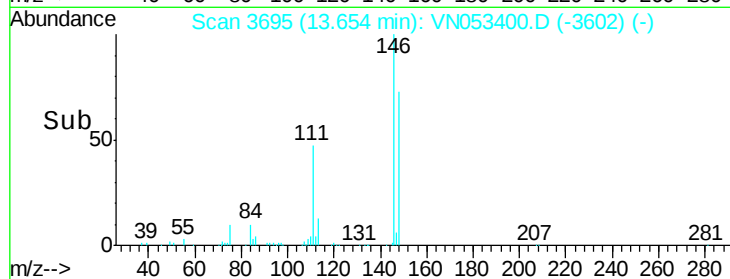
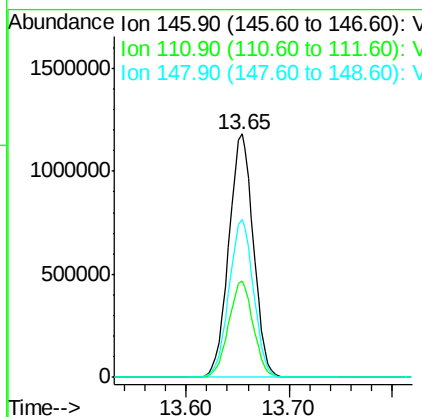
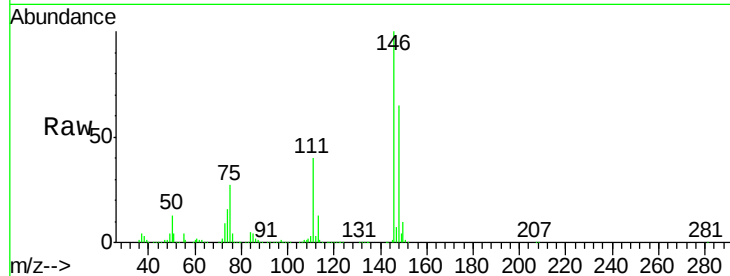
#91
 1,2-Dichlorobenzene
 Concen: 100.101 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.4	58.2
148	64.7	32.2	96.6

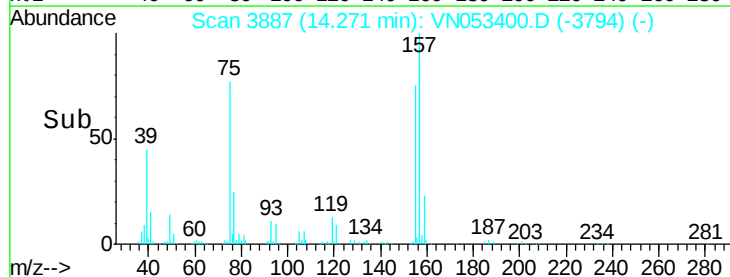
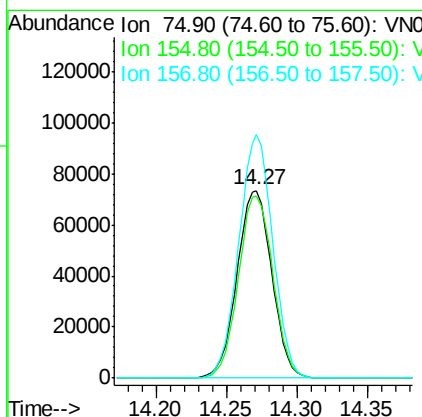
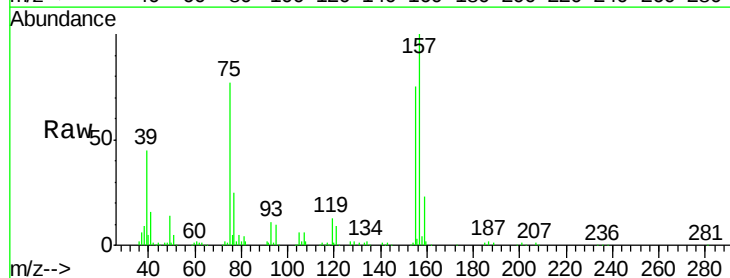
Manual Integrations
 APPROVED

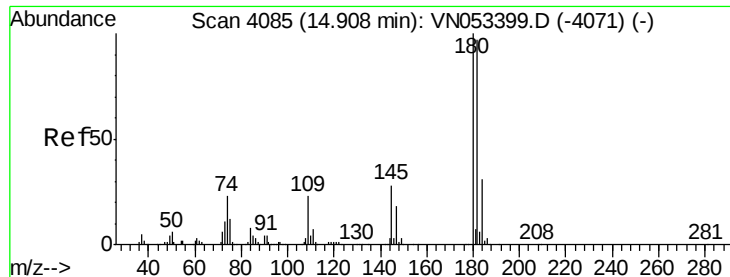
MMDadoda
 1/16/2019 9:51:02 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 104.215 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.2	48.1	144.3
157	126.7	61.5	184.4





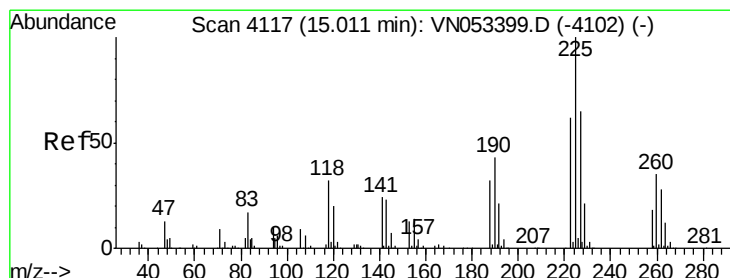
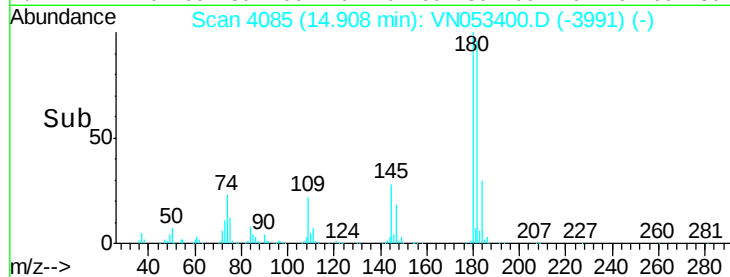
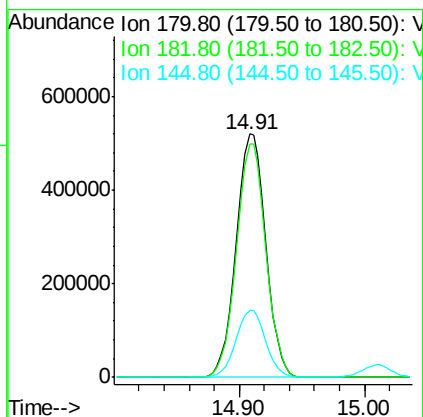
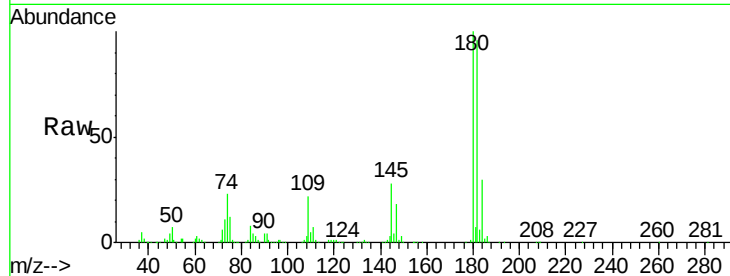
#93
 1,2,4-Trichlorobenzene
 Concen: 95.654 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	850104		
182	95.5	47.8	143.4	
145	27.7	14.4	43.0	

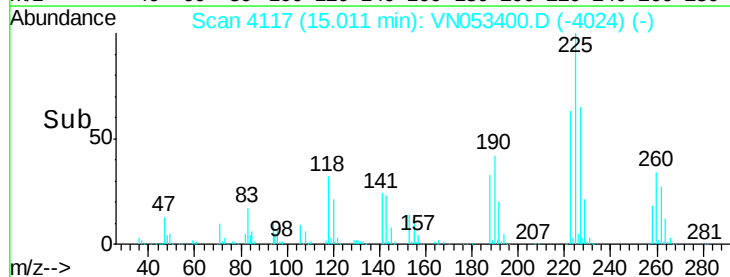
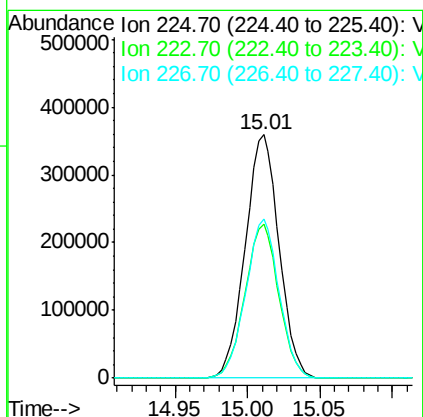
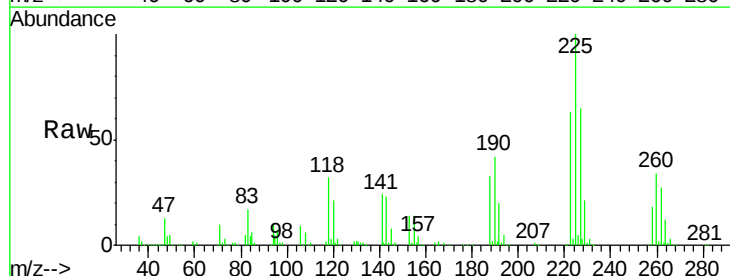
Manual Integrations
 APPROVED

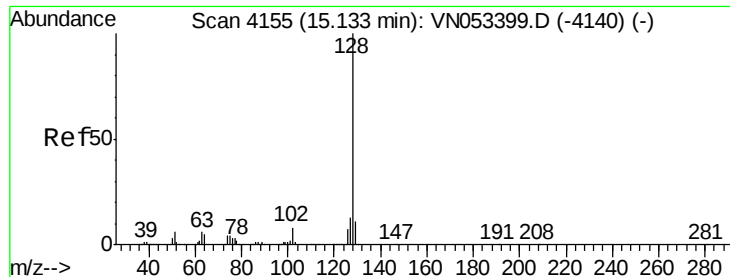
MMDadoda
 1/16/2019 9:51:02 AM



#94
 Hexachlorobutadiene
 Concen: 95.111 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053400.D
 Acq: 15 Jan 2019 11:02

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	581360		
223	63.2	30.9	92.8	
227	64.5	31.4	94.2	





#95

Naphthalene

Concen: 95.874 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:128 Resp: 1513790

Ion Ratio Lower Upper

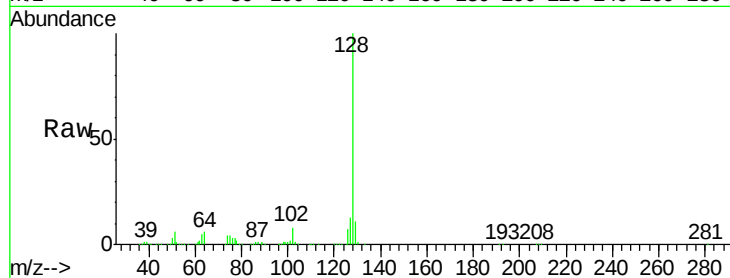
128 100

127 12.7 10.4 15.6

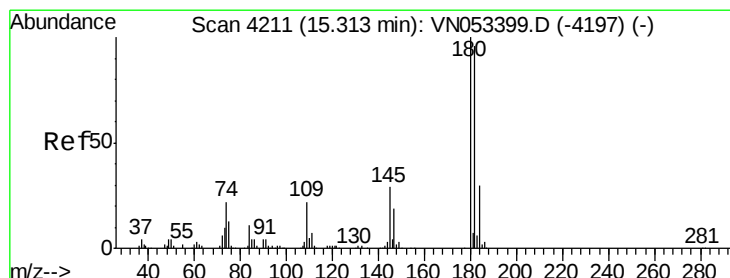
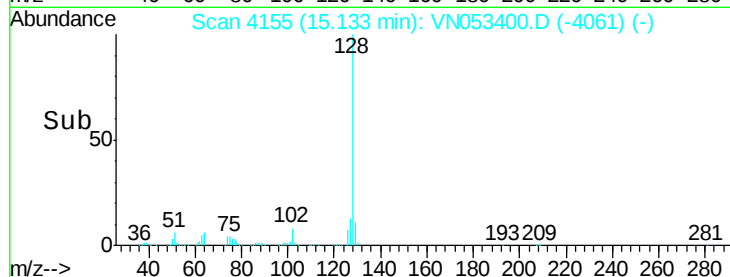
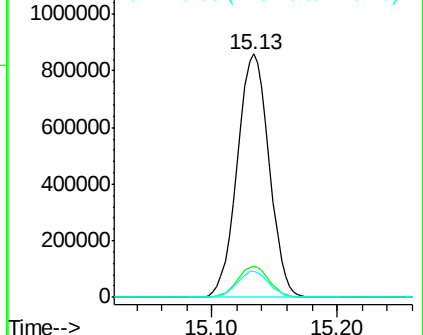
129 10.7 8.7 13.1

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:51:02 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: 95.127 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053400.D

Acq: 15 Jan 2019 11:02

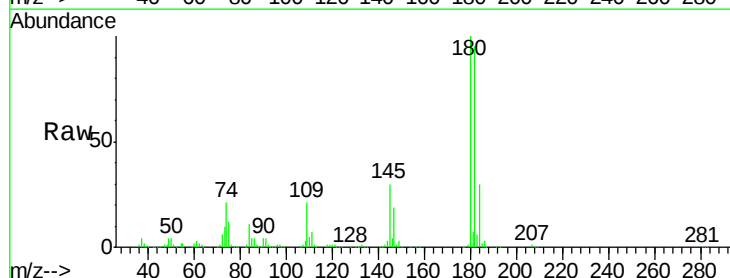
Tgt Ion:180 Resp: 625972

Ion Ratio Lower Upper

180 100

182 95.9 48.4 145.0

145 29.7 14.9 44.5



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

