

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054016.D
 Acq On : 1 Mar 2019 8:50
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:05 AM

Quant Time: Mar 01 09:51:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 09:46:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	110616	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	589836	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	496942	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	234612	33.39	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.30%
60) 4-Bromofluorobenzene	12.40	95	214051	28.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.83%
63) Toluene-d8	10.09	98	741710	33.13	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	110.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	34255	4.648	ug/l 98
3) Chloromethane	2.06	50	43054	4.977	ug/l 99
4) Vinyl Chloride	2.18	62	44273	5.201	ug/l 98
5) Bromomethane	2.57	94	28121	5.124	ug/l 100
6) Chloroethane	2.71	64	26043	5.311	ug/l 98
7) Trichlorofluoromethane	3.02	101	53742	5.112	ug/l 99
8) Diethyl Ether	3.41	74	18129	4.642	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	36838	5.578	ug/l # 76
10) 1,1-Dichloroethene	3.74	96	31755	4.927	ug/l 91
11) Methyl Iodide	3.95	142	40521	4.293	ug/l 99
12) Methyl Acetate	4.32	43	25993	5.174	ug/l # 85
13) Acrolein	3.61	56	4860	8.103	ug/l 99
14) Acrylonitrile	4.99	53	57734	25.689	ug/l 95
15) Acetone	3.82	58	18680	39.109	ug/l 90
16) Carbon Disulfide	4.05	76	101433	5.116	ug/l 99
17) Allyl chloride	4.33	41	52129	5.141	ug/l 96
18) Methylene Chloride	4.55	84	36704	4.976	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	33978	4.988	ug/l 93
20) Diisopropyl ether	5.95	45	96397	4.439	ug/l # 87
21) 1,1-Dichloroethane	5.85	63	65693	5.196	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	36218	4.720	ug/l 97
23) tert-Butyl Alcohol	4.78	59	10119	26.709	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	75005	4.463	ug/l 97
25) Chloroform	7.37	83	63592	5.233	ug/l 96
26) Cyclohexane	7.65	56	53707	4.554	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	45507	5.093	ug/l 98
30) 2-Butanone	6.83	43	70077	31.438	ug/l # 94
31) 2,2-Dichloropropane	6.82	77	47336	5.473	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	51145	5.464	ug/l 99
33) Carbon Tetrachloride	7.77	117	44989	5.490	ug/l 100
34) Benzene	8.04	78	136800	5.095	ug/l # 68
35) Methacrylonitrile	7.17	41	15471	5.379	ug/l 95
36) 1,2-Dichloroethane	8.12	62	47350	6.074	ug/l 100
37) Trichloroethene	8.83	130	37977	5.221	ug/l 93
38) Methylcyclohexane	9.08	83	51508	4.929	ug/l 98
39) 1,2-Dichloropropane	9.12	63	38299	5.462	ug/l 98
40) Dibromomethane	9.20	93	22432	5.657	ug/l 97

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 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:05 AM

Quant Time: Mar 01 09:51:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 09:46:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	46904	5.508	ug/l	100
42) Vinyl Acetate	5.90	43	324098	26.651	ug/l	100
43) Ethyl Acetate	6.93	43	25464	5.115	ug/l #	65
44) Isopropyl Acetate	8.17	43	50016	5.394	ug/l #	89
45) 1,4-Dioxane	9.19	88	2735	48.233	ug/l #	6
46) Methyl methacrylate	9.20	41	21745	4.642	ug/l	91
47) n-amyl Acetate	12.07	43	28288	3.474	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	41240	4.745	ug/l	94
49) cis-1,3-Dichloropropene	9.84	75	50413	4.926	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	31377	5.519	ug/l	96
51) Ethyl methacrylate	10.43	69	28549	3.853	ug/l	98
52) 1,3-Dichloropropane	10.71	76	50533	5.160	ug/l	96
53) Dibromochloromethane	10.90	129	32211	5.044	ug/l	98
54) 1,2-Dibromoethane	11.00	107	27126	4.729	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	63995	15.049	ug/l	99
56) Bromoform	12.13	173	19724	4.515	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	125864	26.580	ug/l	97
59) 2-Hexanone	10.75	43	80982	24.772	ug/l	95
61) Tetrachloroethene	10.63	164	39856	5.427	ug/l	97
62) Toluene	10.16	91	142148	5.216	ug/l	98
64) Chlorobenzene	11.43	112	87776	5.132	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	32412	5.403	ug/l	99
66) Ethyl Benzene	11.51	91	139682	4.726	ug/l	99
67) m/p-Xylenes	11.62	106	102221	9.145	ug/l	98
68) o-Xylene	11.95	106	50618	4.673	ug/l	99
69) Styrene	11.96	104	71598	4.050	ug/l	98
70) Isopropylbenzene	12.25	105	132593	4.653	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	33655	5.610	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	25270m	4.810	ug/l	
73) Bromobenzene	12.53	156	34148	4.661	ug/l	98
74) n-propylbenzene	12.59	91	154366	4.785	ug/l	100
75) 2-Chlorotoluene	12.67	91	93880	4.914	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	109758	4.855	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	7614	4.125	ug/l	97
78) 4-Chlorotoluene	12.77	91	89506	4.602	ug/l	100
79) tert-butylbenzene	12.99	119	98950	5.019	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	104502	4.612	ug/l	99
81) sec-Butylbenzene	13.17	105	136862	5.242	ug/l	99
82) p-Isopropyltoluene	13.29	119	110736	4.908	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	57458	4.607	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	51956	4.273	ug/l	98
85) n-Butylbenzene	13.61	91	86579	4.719	ug/l	96
86) Hexachloroethane	13.87	117	22638	6.285	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	57389	4.952	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4527	5.277	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	19399	3.449	ug/l	96
90) Hexachlorobutadiene	15.01	225	24119	7.083	ug/l	99
91) Naphthalene	15.13	128	31293	2.622	ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	21255	4.235	ug/l	94

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

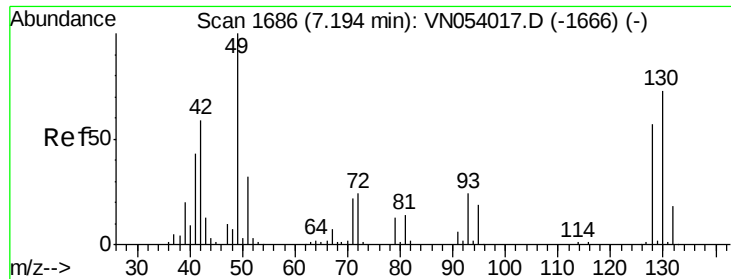
Manual Integrations
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Mar 01 09:46:39 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



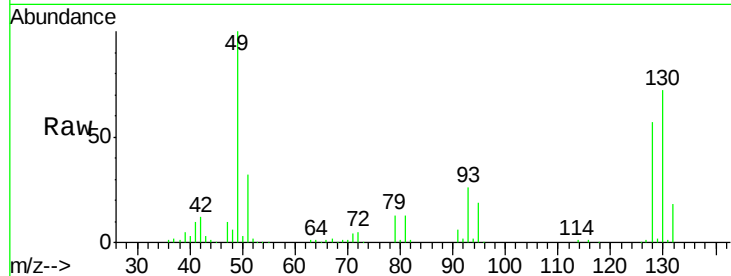
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

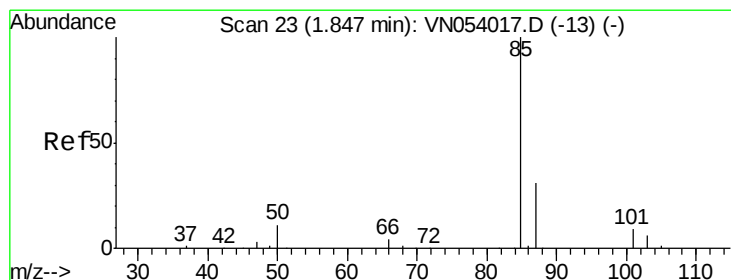
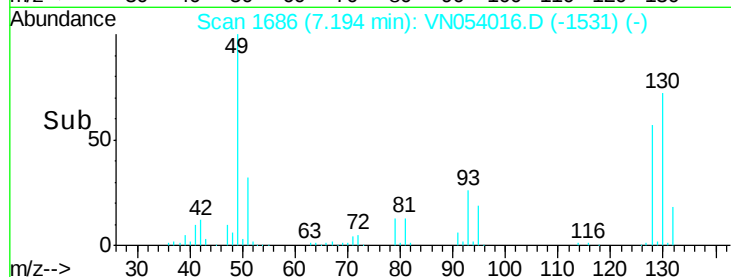
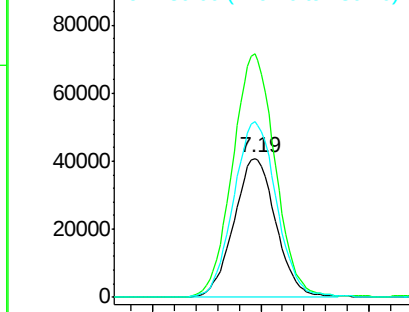
Tot Ion	Ratio	Resp	Lower	Upper
128	100			
49	177.3	0.0	431.8	
130	129.6	0.0	317.0	

Manual Integrations
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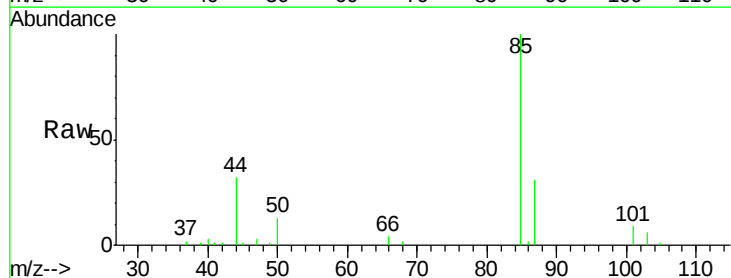


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V

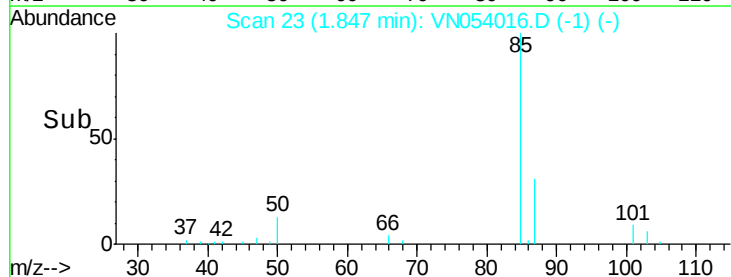
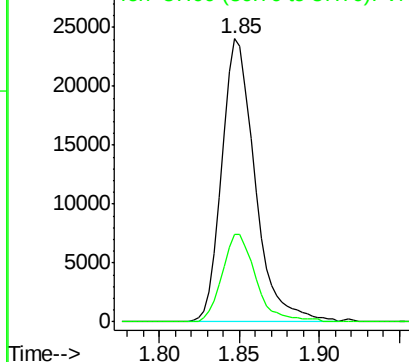


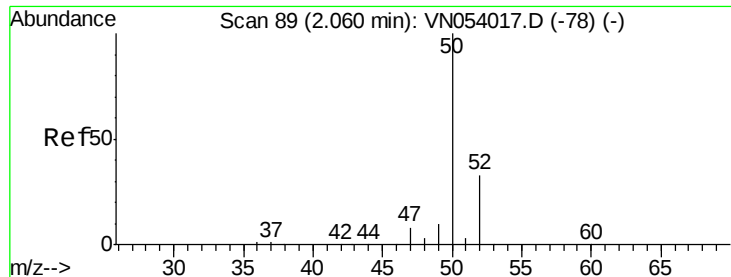
#2
Dichlorodifluoromethane
Concen: 4.648 ug/l
RT: 1.85 min Scan# 23
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Resp	Lower	Upper
85	100			
87	31.0	16.1	48.3	



Abundance Ion 85.00 (84.70 to 85.70): V
Ion 87.00 (86.70 to 87.70): V





#3

Chloromethane

Concen: 4.977 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 43054

Ion Ratio Lower Upper

50 100

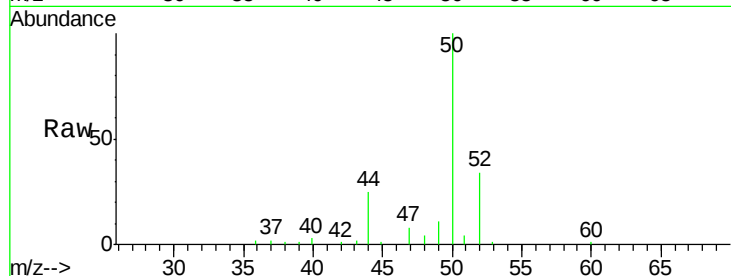
52 33.5 26.5 39.7

Manual Integrations

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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

30000

25000

20000

15000

10000

5000

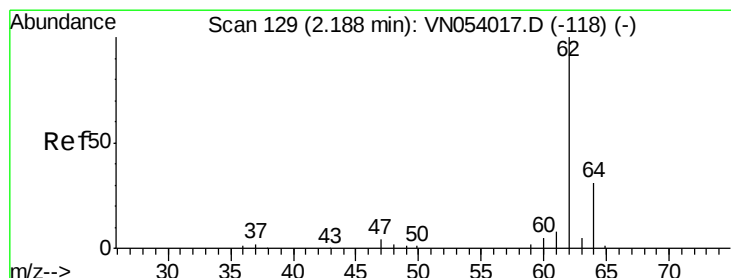
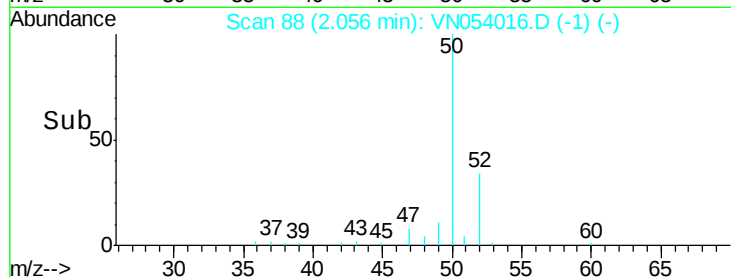
0

2.00

2.05

2.10

Time-->



#4

Vinyl Chloride

Concen: 5.201 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN054016.D

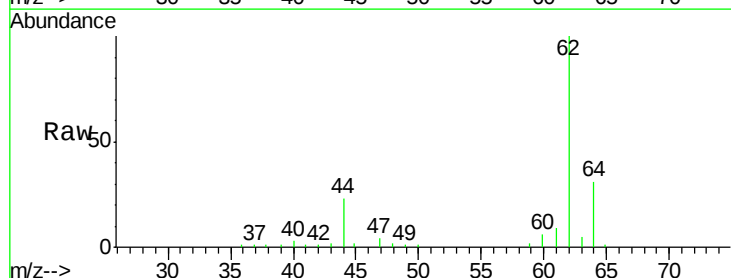
Acq: 1 Mar 2019 8:50

Tgt Ion: 62 Resp: 44273

Ion Ratio Lower Upper

62 100

64 31.2 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0

30000

20000

10000

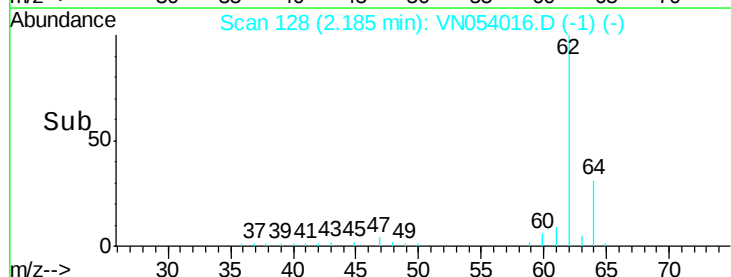
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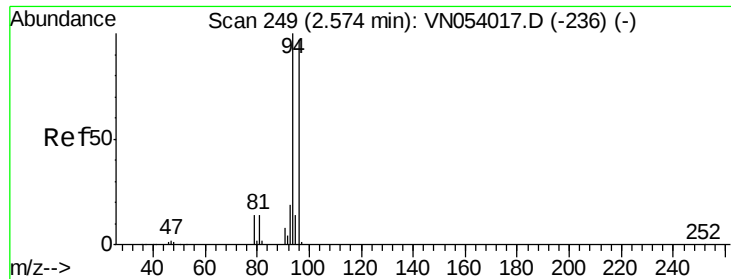
2.15

2.20

2.25

Time-->





#5

Bromomethane

Concen: 5.124 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 28121

Ion Ratio Lower Upper

94 100

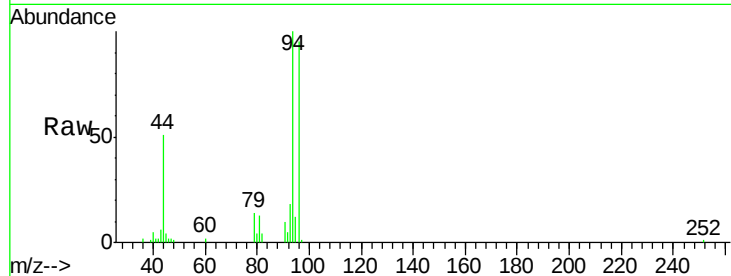
96 94.9 76.2 114.2

Manual Integrations

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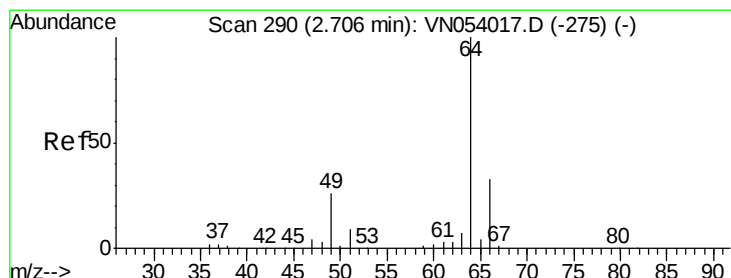
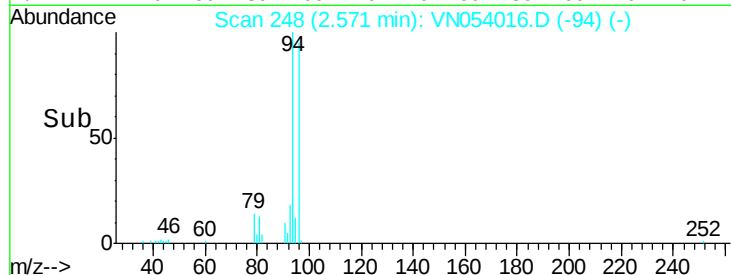
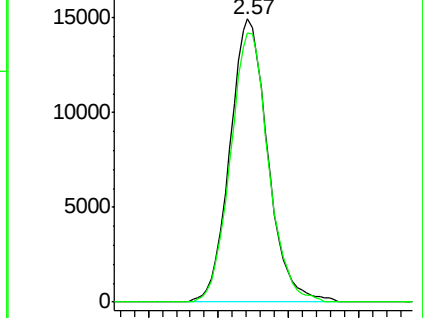
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3/6/2019 10:23:05 AM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 5.311 ug/l

RT: 2.71 min Scan# 290

Delta R.T. -0.00 min

Lab File: VN054016.D

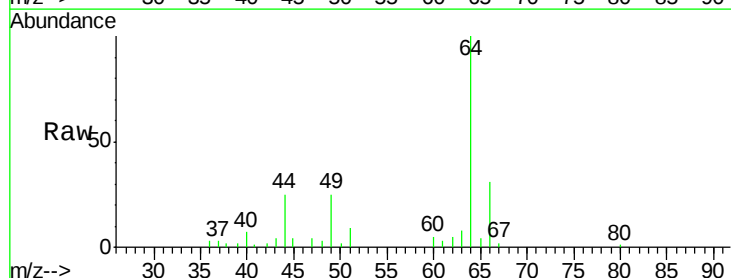
Acq: 1 Mar 2019 8:50

Tgt Ion: 64 Resp: 26043

Ion Ratio Lower Upper

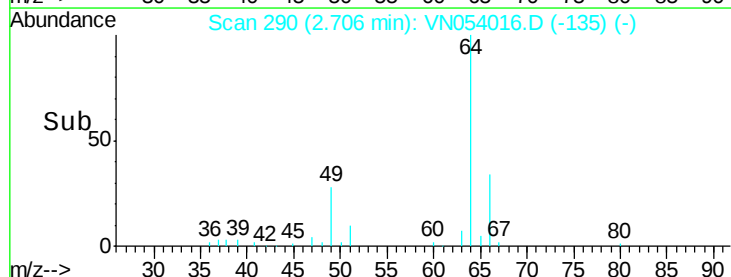
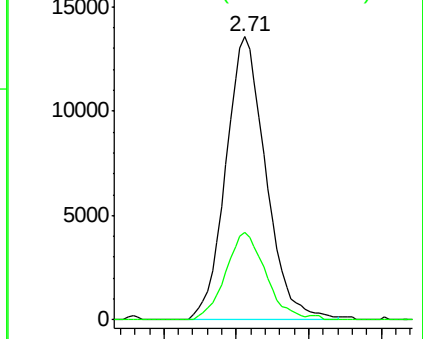
64 100

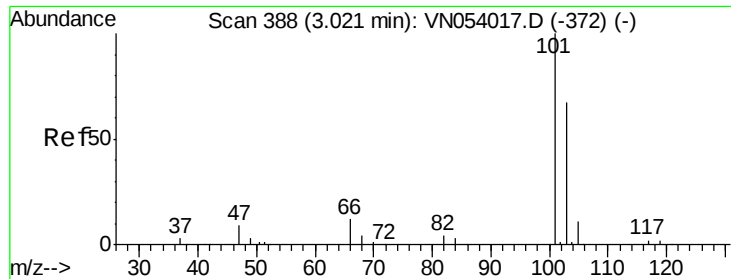
66 30.9 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

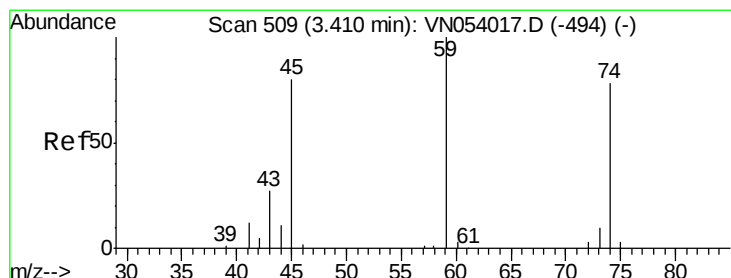
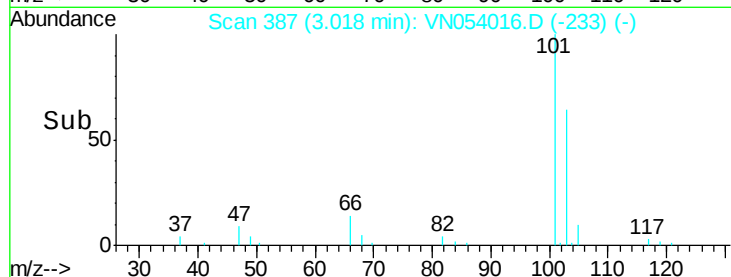
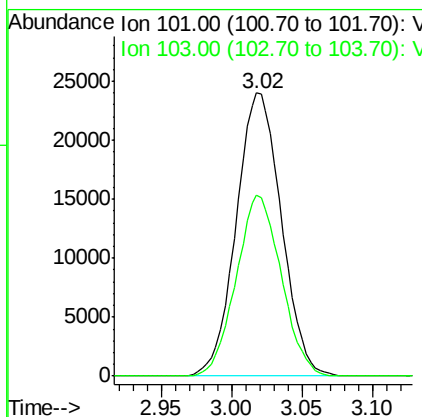
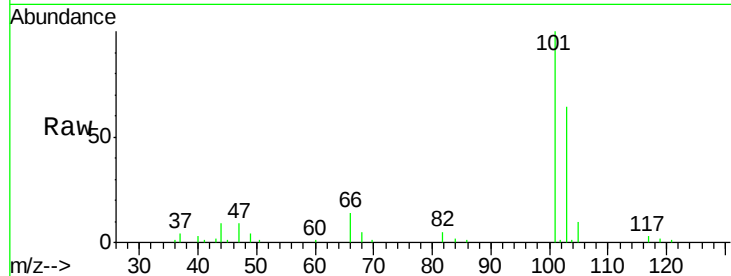
Trichlorofluoromethane
Concen: 5.112 ug/l
RT: 3.02 min Scan# 387
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.1	78.1

Manual Integrations
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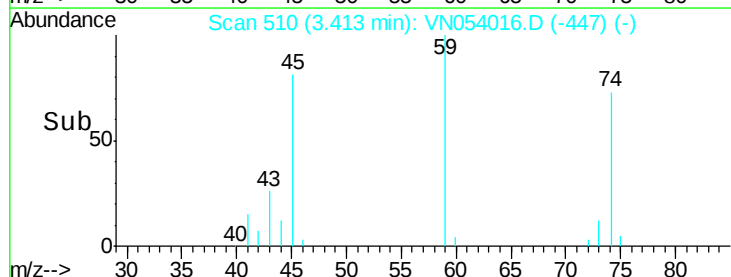
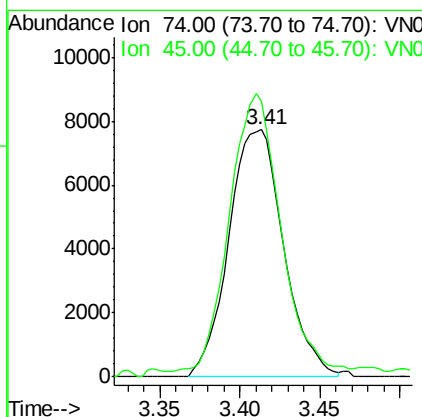
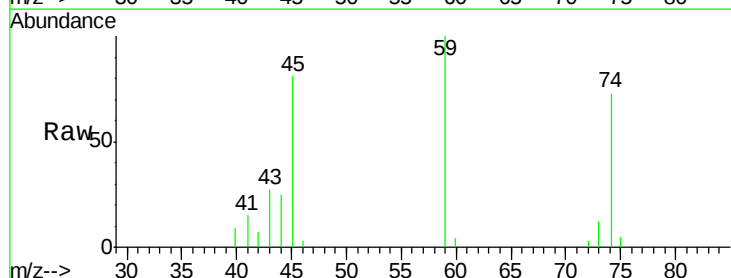
MMDadoda
3/6/2019 10:23:05 AM

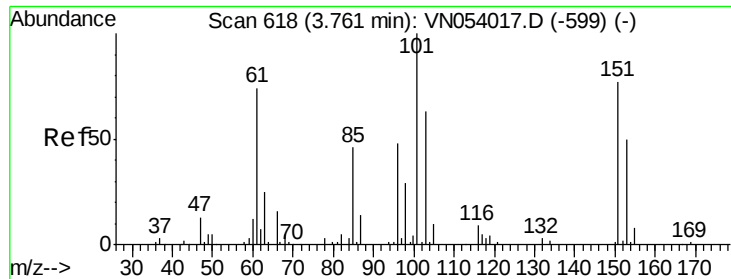


#8

Diethyl Ether
Concen: 4.642 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.4	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.578 ug/l

RT: 3.76 min Scan# 617

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

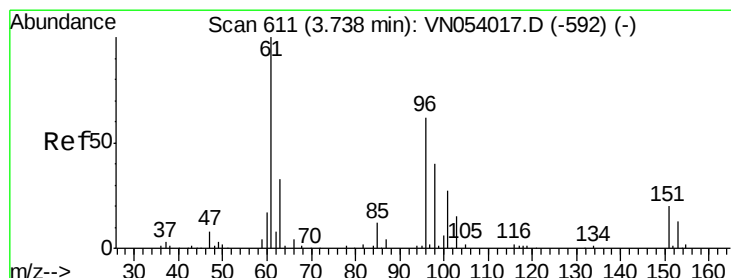
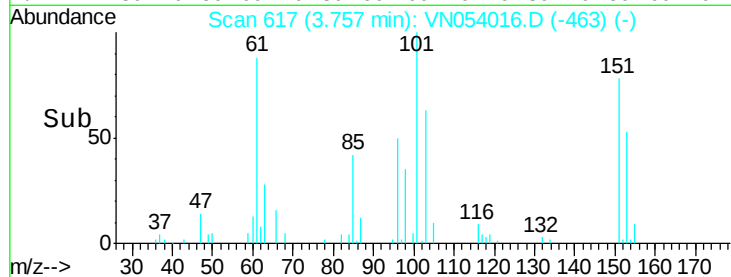
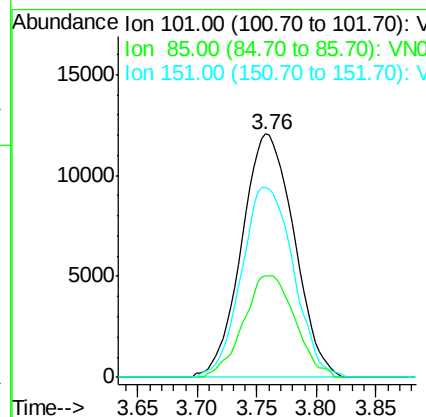
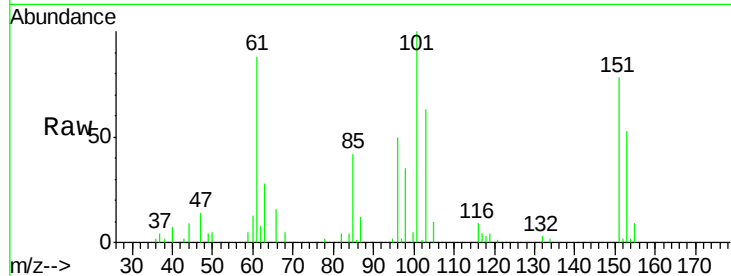
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	36838
Ion Ratio	Lower	Upper	
101	100		
85	0.0	0.0	82.6
151	77.4	0.0	158.4

Manual Integrations
APPROVED

MMDadoda
3/6/2019 10:23:05 AM



#10

1,1-Dichloroethene

Concen: 4.927 ug/l

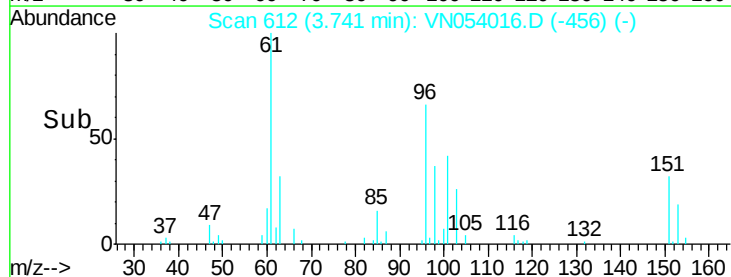
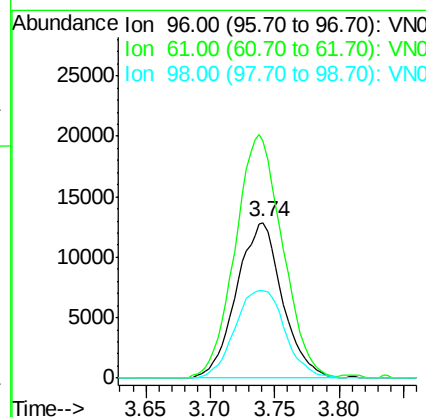
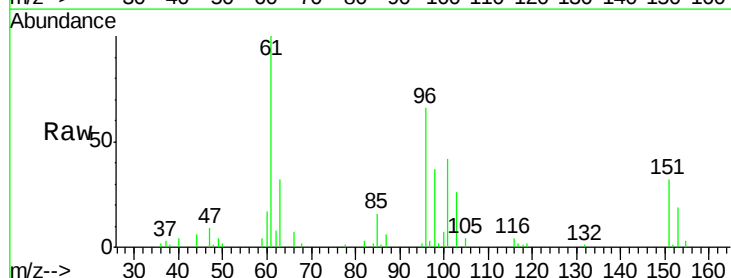
RT: 3.74 min Scan# 612

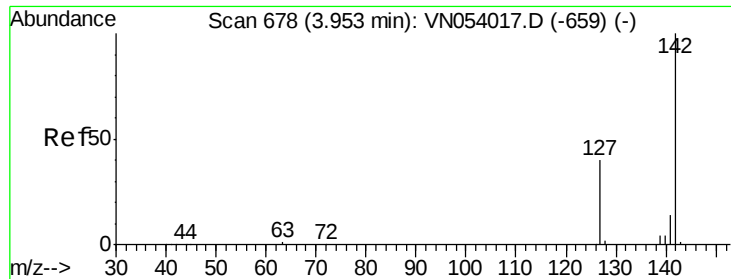
Delta R.T. 0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Tgt Ion:	96	Resp:	31755
Ion Ratio	Lower	Upper	
96	100		
61	150.1	129.4	194.2
98	56.5	50.4	75.6





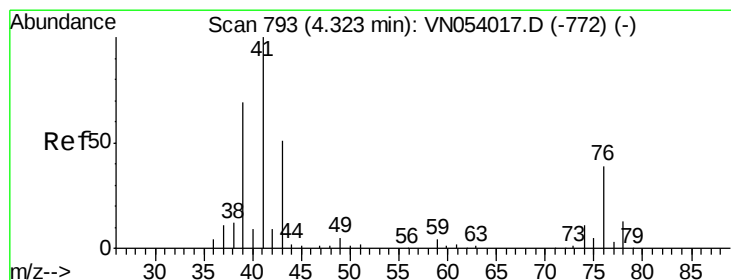
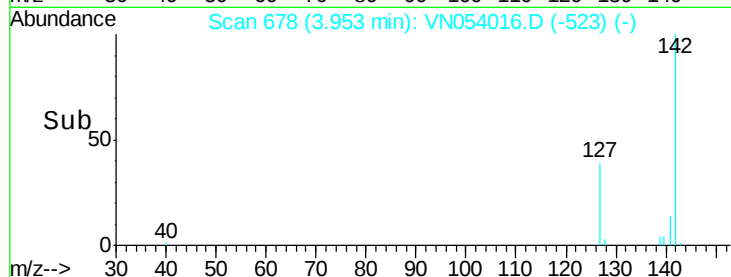
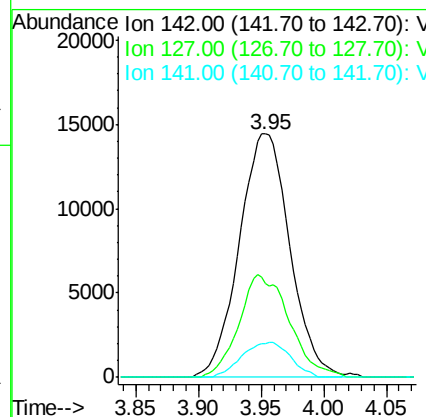
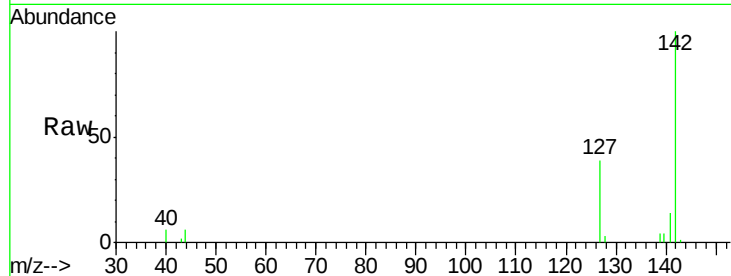
#11
Methyl Iodide
Concen: 4.293 ug/l
RT: 3.95 min Scan# 678
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.1	19.4	58.1
141	14.0	7.2	21.6

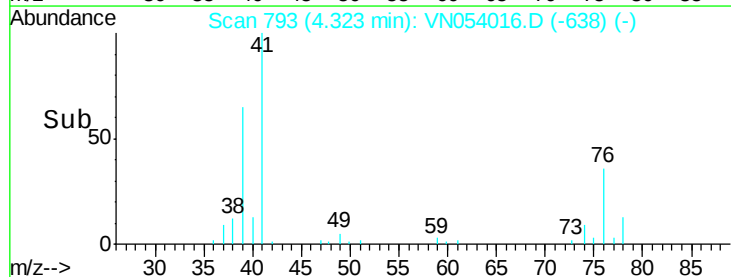
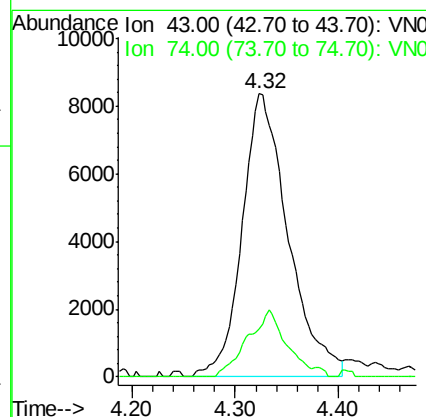
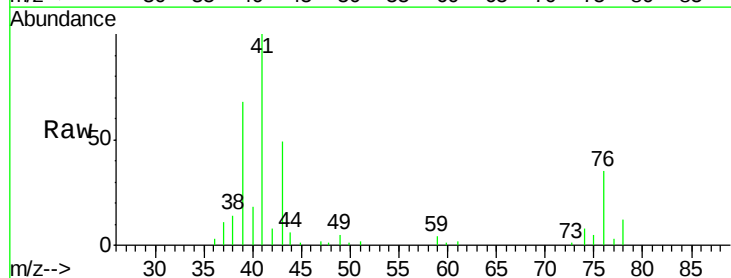
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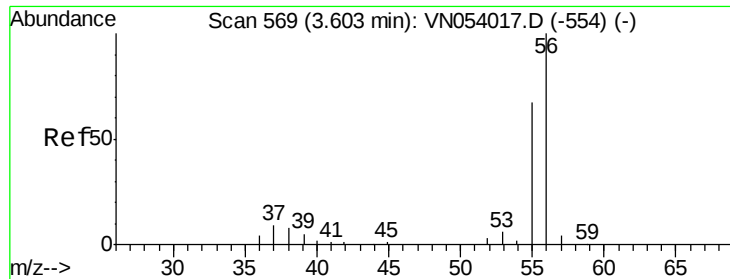
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#12
Methyl Acetate
Concen: 5.174 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
43	100		
74	16.2	18.9	28.3#





#13

Acrolein

Concen: 8.103 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 56 Resp: 4860

Ion Ratio Lower Upper

56 100

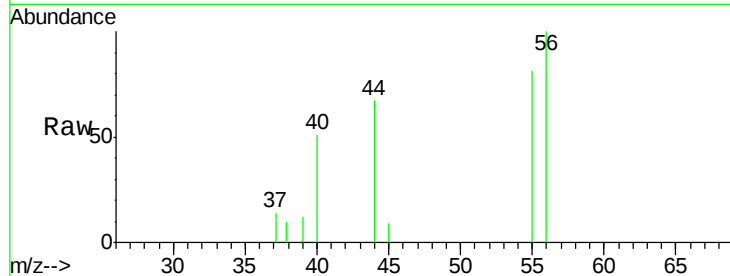
55 69.9 56.7 85.1

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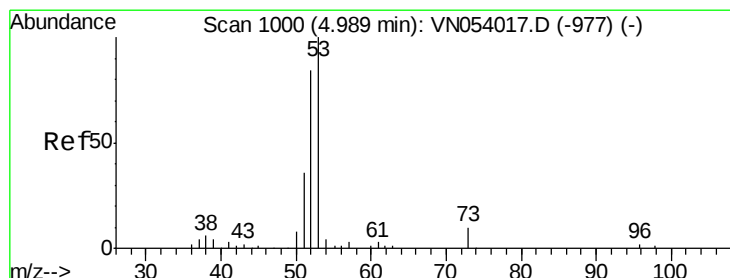
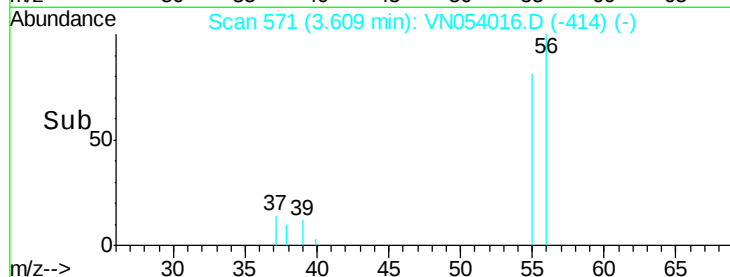
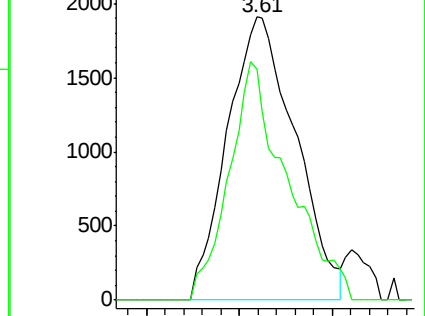
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 25.689 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

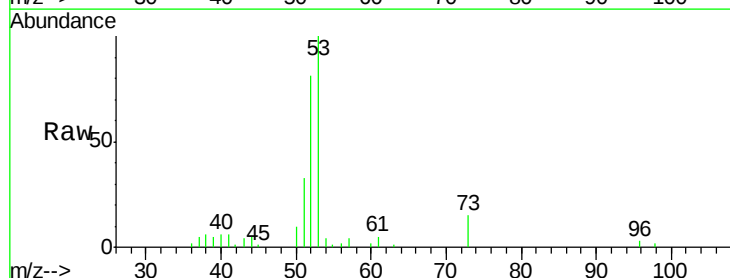
Tgt Ion: 53 Resp: 57734

Ion Ratio Lower Upper

53 100

52 74.8 39.9 119.7

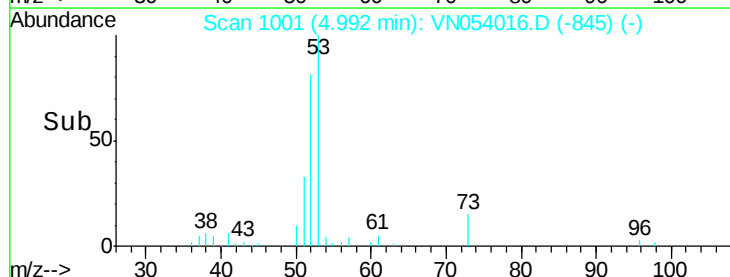
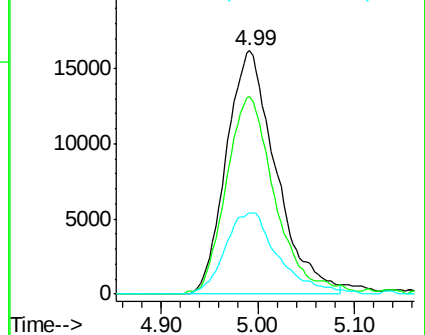
51 33.7 17.6 52.9

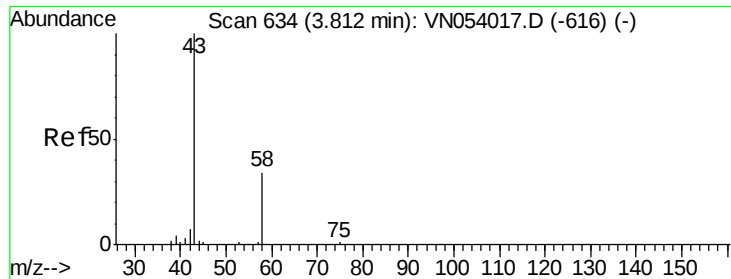


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 39.109 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 58 Resp: 18680

Ion Ratio Lower Upper

58 100

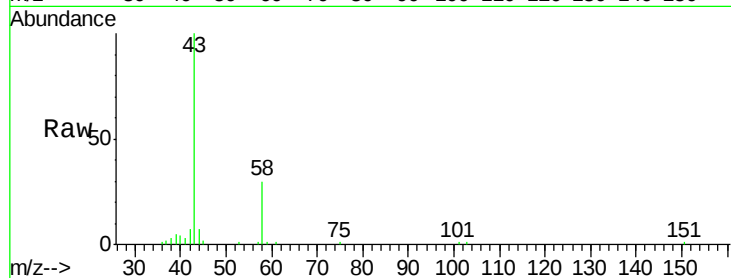
43 324.1 243.6 365.4

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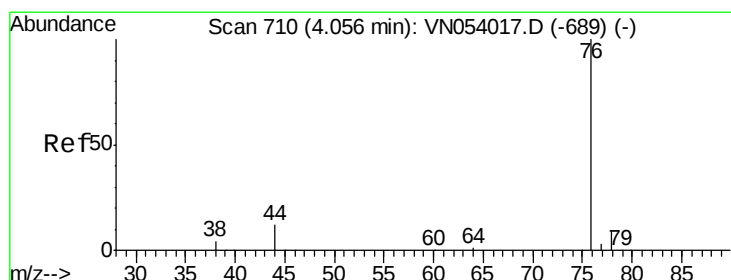
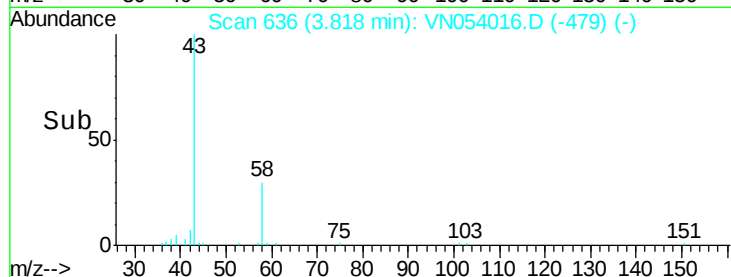
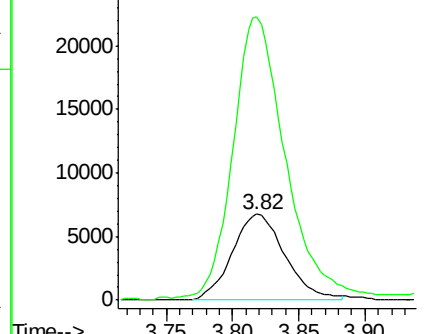
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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 5.116 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN054016.D

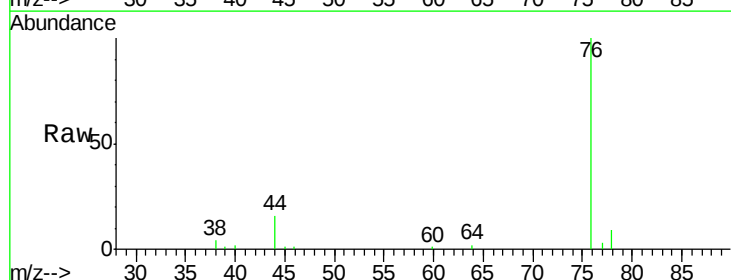
Acq: 1 Mar 2019 8:50

Tgt Ion: 76 Resp: 101433

Ion Ratio Lower Upper

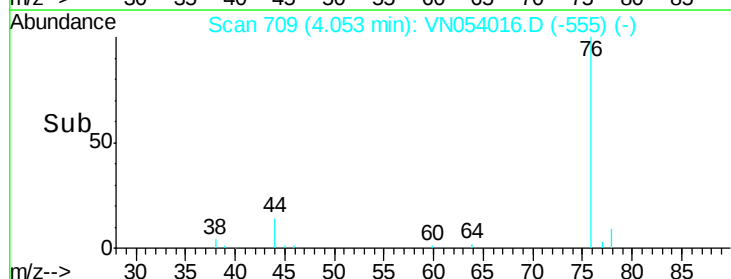
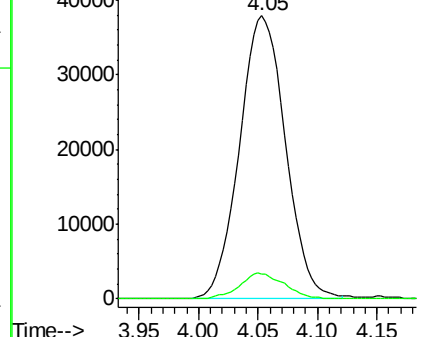
76 100

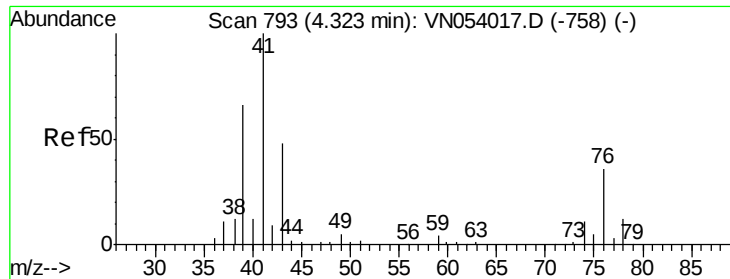
78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





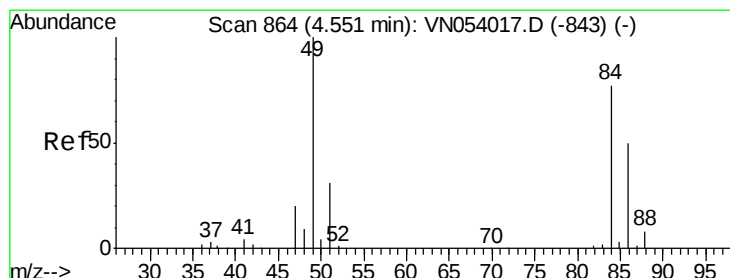
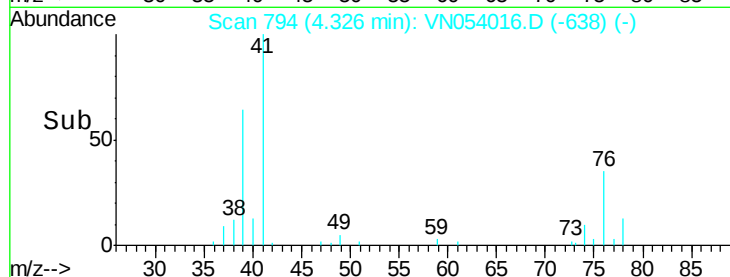
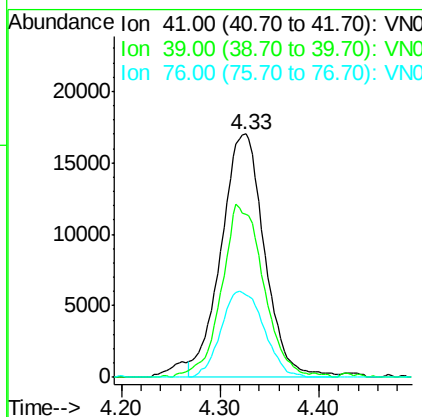
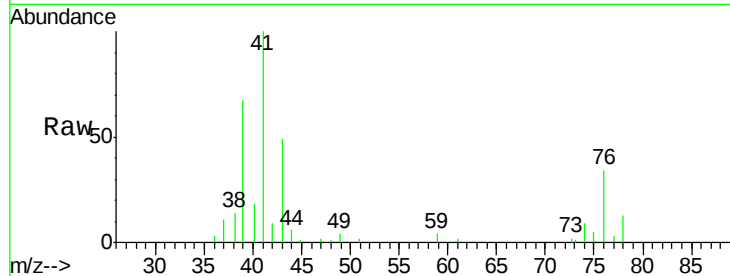
#17
Allvl chloride
Concen: 5.141 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:	41	Resp:	52129
Ion Ratio	Lower	Upper	
41	100		
39	67.9	32.8	98.3
76	34.4	18.6	55.8

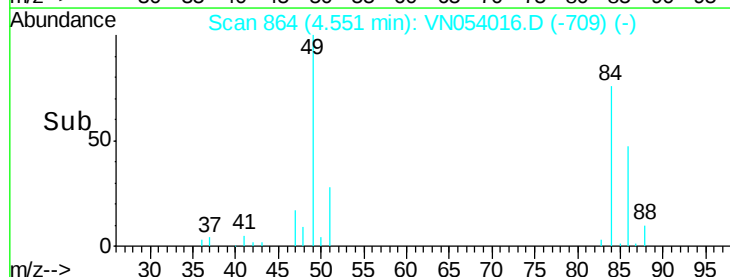
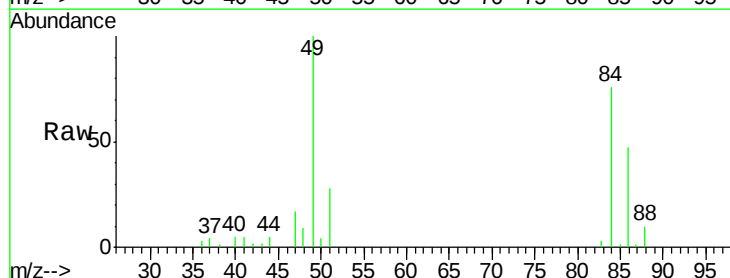
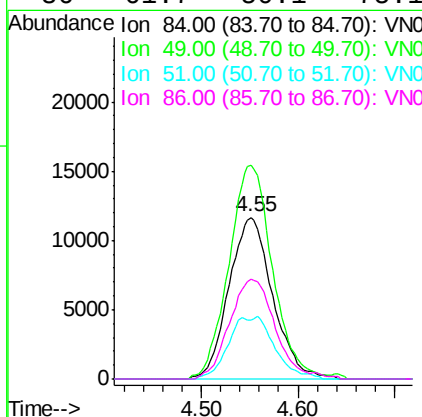
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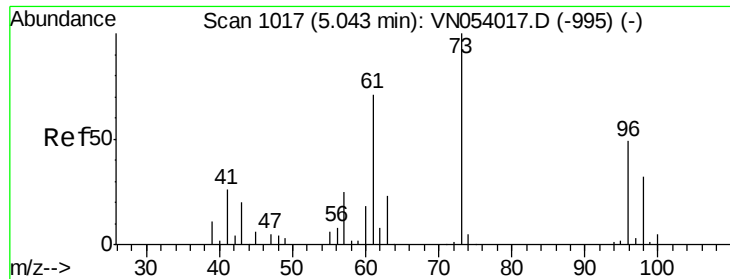
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#18
Methylene Chloride
Concen: 4.976 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion:	84	Resp:	36704
Ion Ratio	Lower	Upper	
84	100		
49	132.4	101.4	152.0
51	36.6	31.7	47.5
86	61.7	50.1	75.1





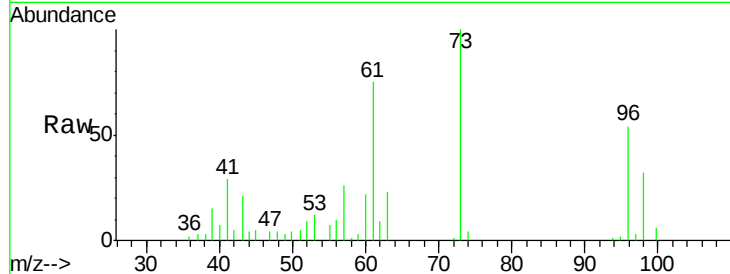
#19
trans-1,2-Dichloroethene
Concen: 4.988 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.2	118.2	177.4
98	59.5	51.4	77.2

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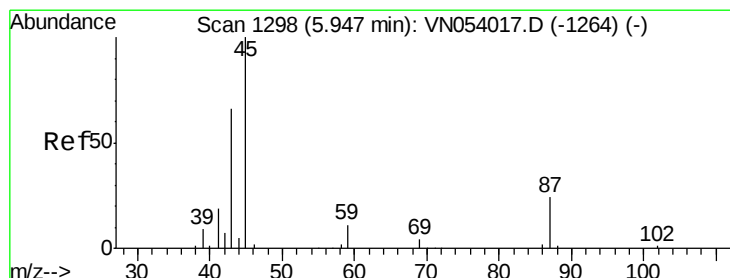
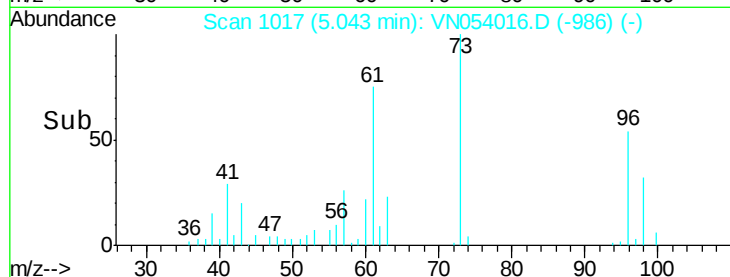
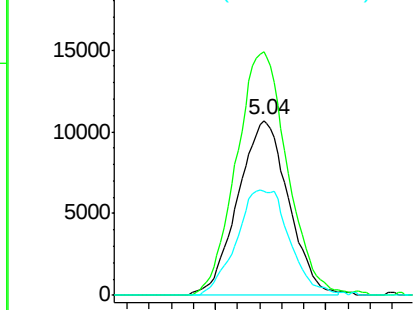


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 4.439 ug/l
RT: 5.95 min Scan# 1298
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
45	100		
43	73.6	47.8	71.8#
87	22.6	21.3	31.9
59	11.6	8.9	13.3

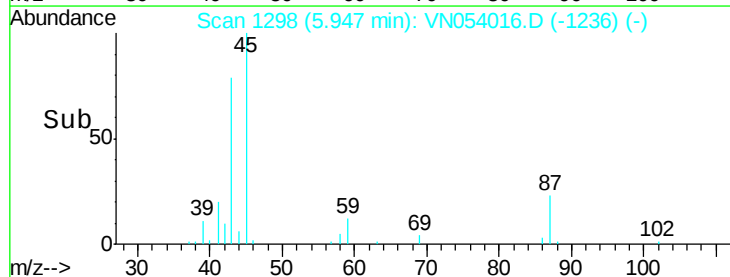
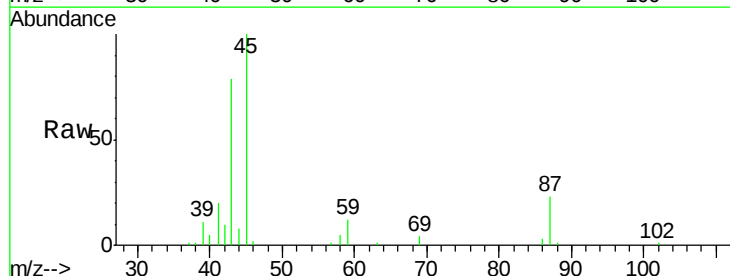
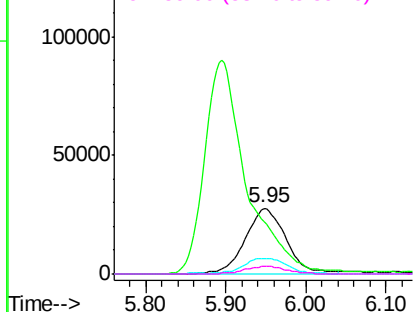
Abundance

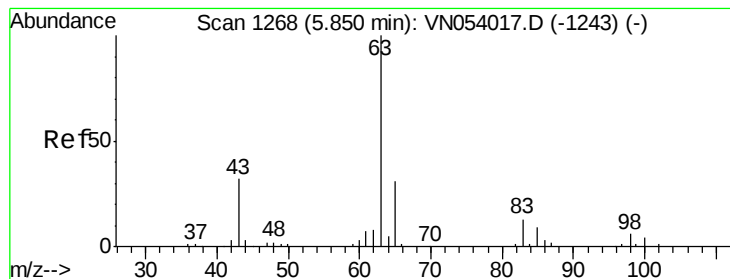
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#21

1,1-Dichloroethane

Concen: 5.196 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

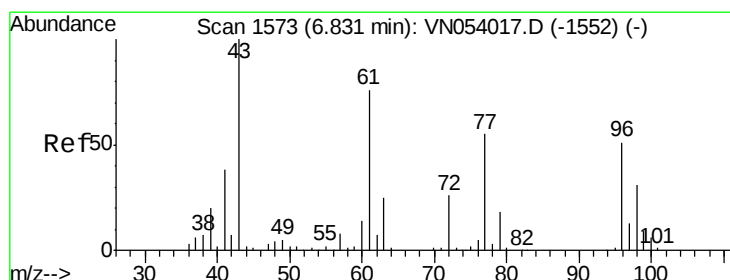
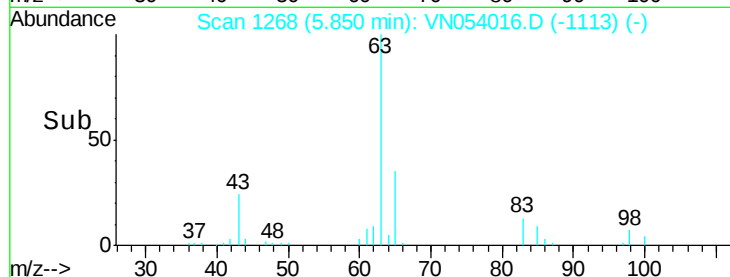
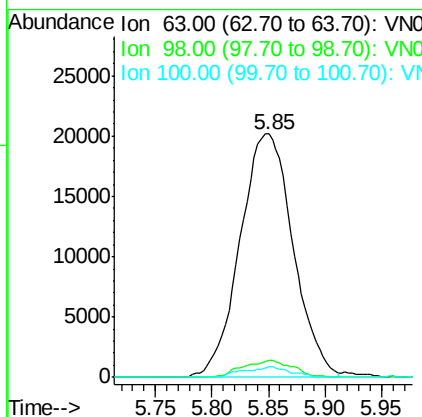
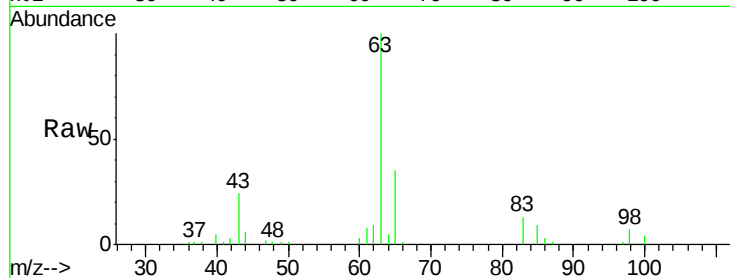
ClientSampled :

VSTDIC005

Tot Ion:	63	Resp:	65693
Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.0	9.2
100	4.2	1.8	5.5

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#22

cis-1,2-Dichloroethene

Concen: 4.720 ug/l

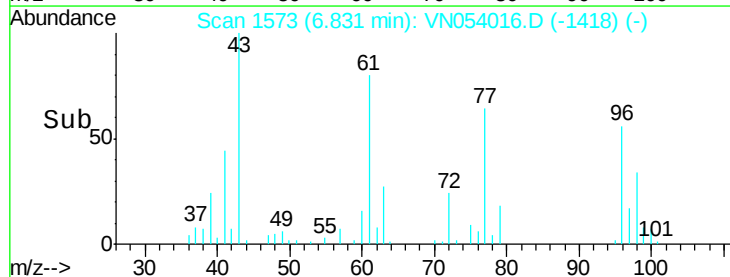
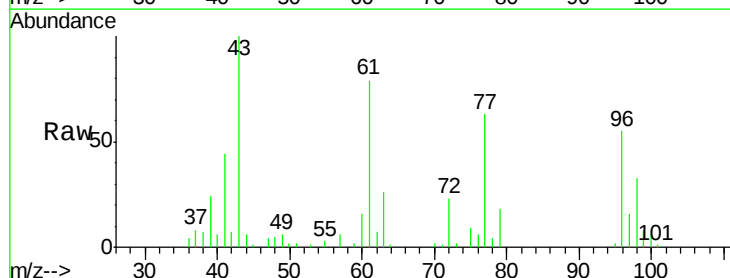
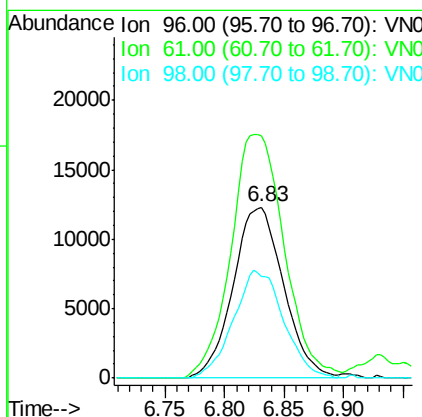
RT: 6.83 min Scan# 1573

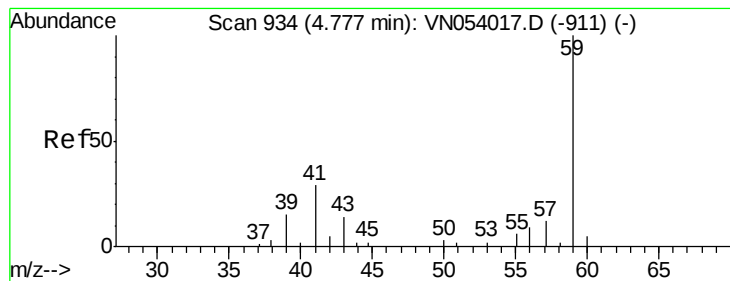
Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Tgt Ion:	96	Resp:	36218
Ion	Ratio	Lower	Upper
96	100		
61	150.4	116.7	175.1
98	62.5	50.8	76.2





#23

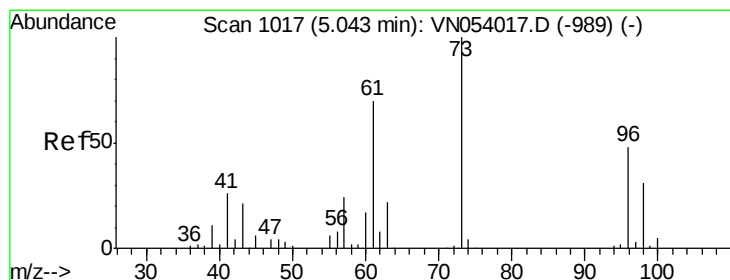
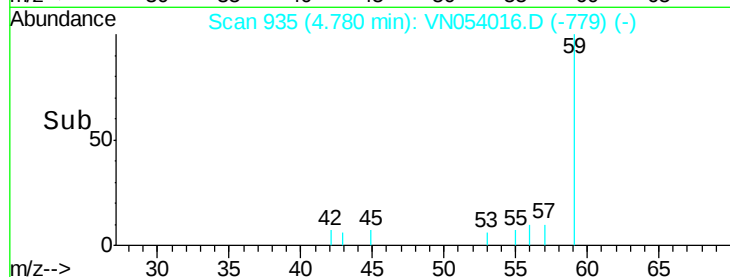
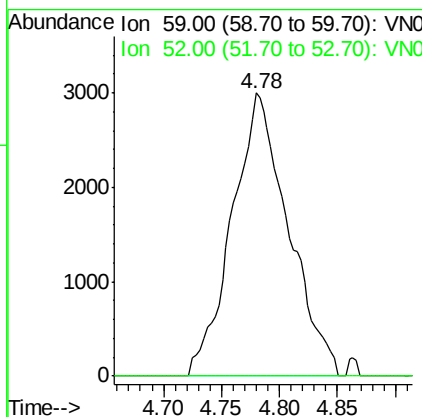
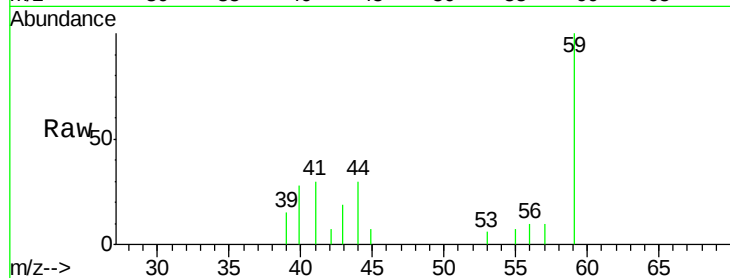
tert-Butyl Alcohol
 Concen: 26.709 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

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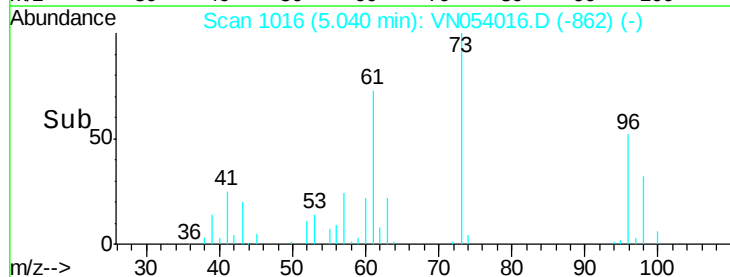
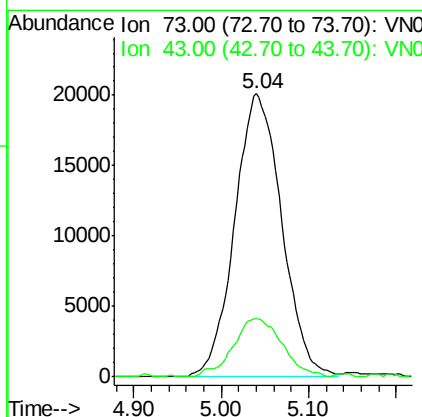
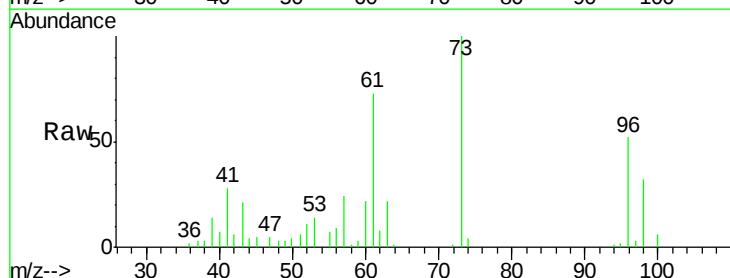
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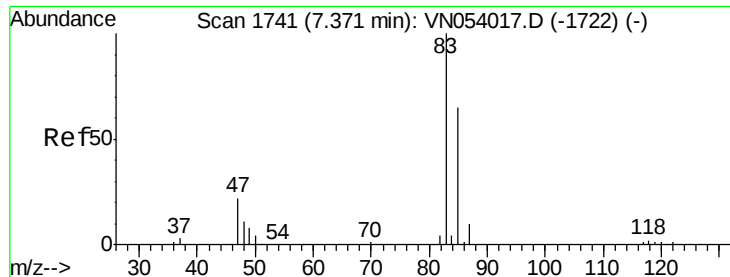


#24

Methyl tert-Butyl Ether
 Concen: 4.463 ug/l
 RT: 5.04 min Scan# 1016
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
73	100		
43	21.0	15.8	23.8





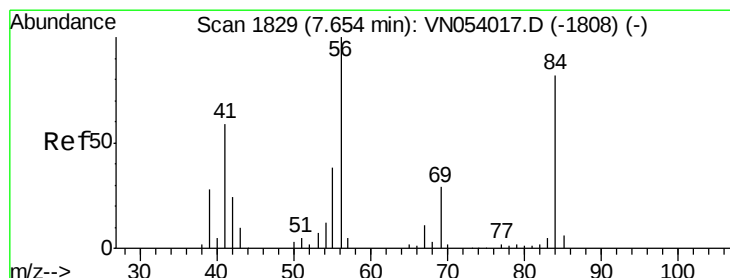
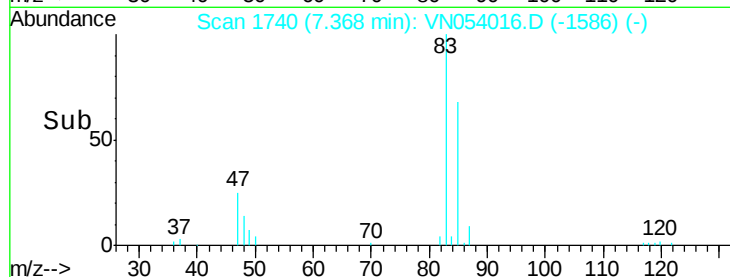
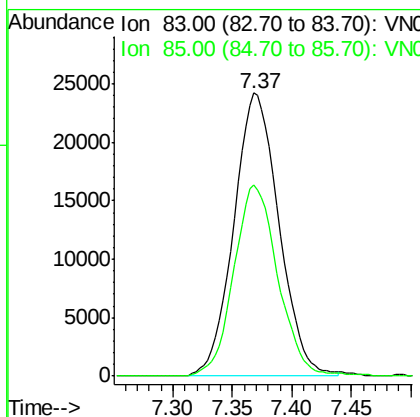
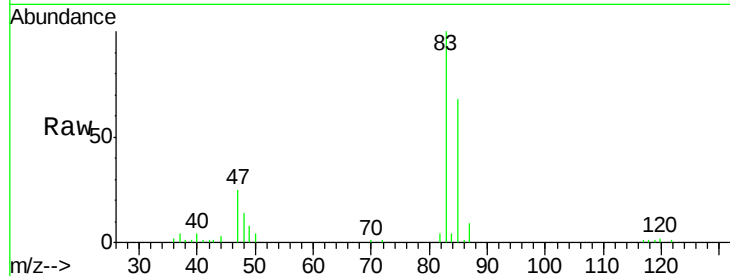
#25
Chloroform
Concen: 5.233 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 83 Resp: 63592
Ion Ratio Lower Upper
83 100
85 67.6 51.7 77.5

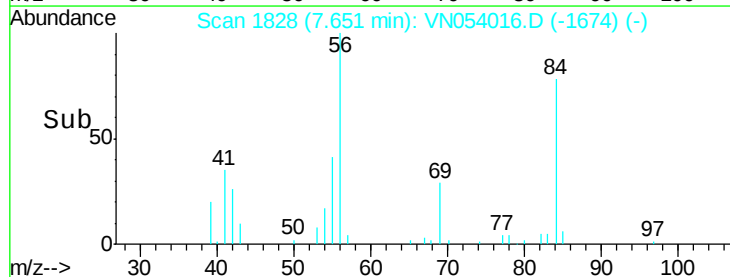
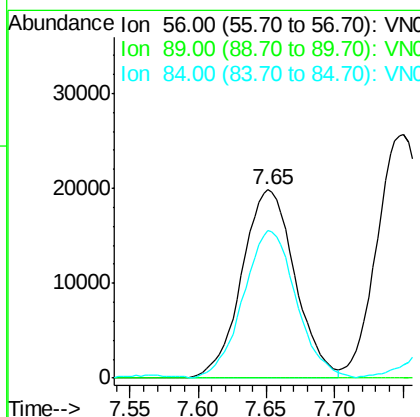
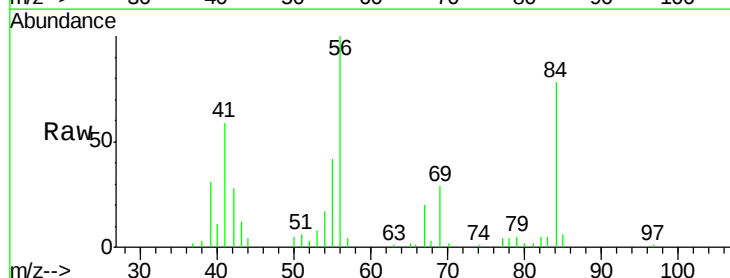
Manual Integrations
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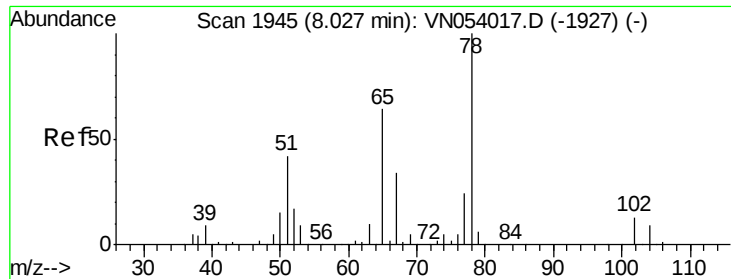
MMDadoda
3/6/2019 10:23:05 AM



#26
Cyclohexane
Concen: 4.554 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion: 56 Resp: 53707
Ion Ratio Lower Upper
56 100
89 0.0 0.5 0.7#
84 77.9 66.2 99.2





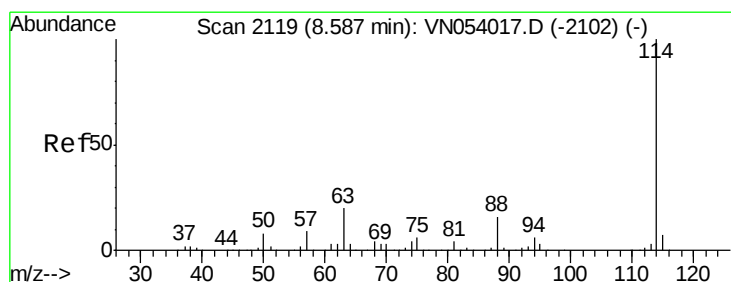
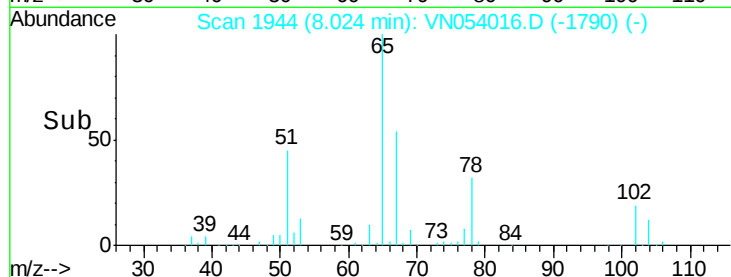
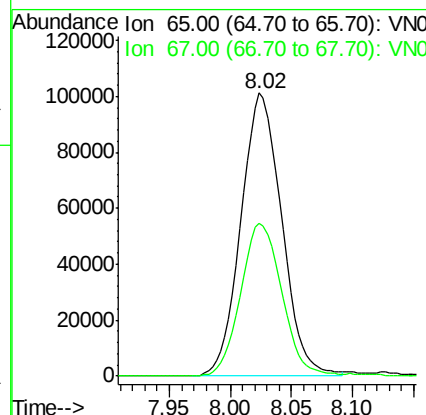
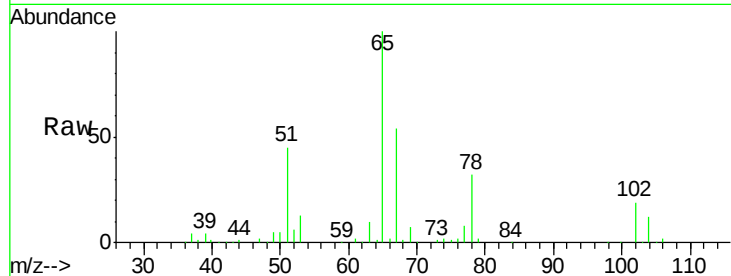
#27
 1,2-Dichloroethane-d4
 Concen: 4.554 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 65 Resp: 234612
 Ion Ratio Lower Upper
 65 100
 67 54.4 44.6 66.8

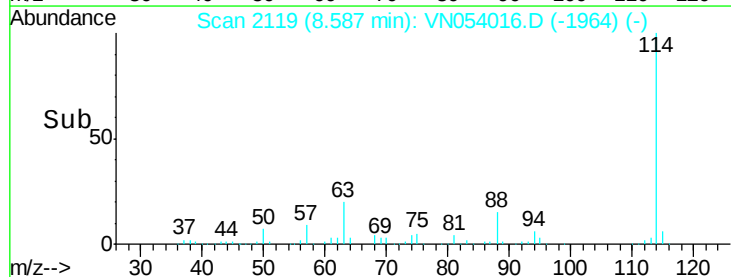
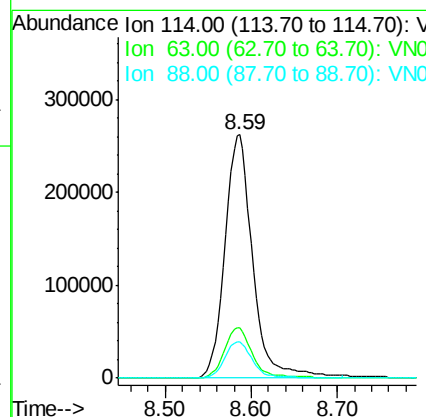
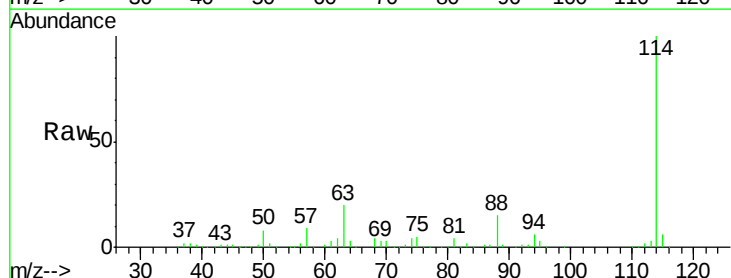
Manual Integrations
 APPROVED

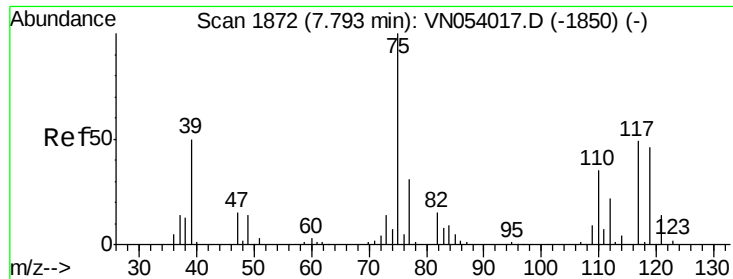
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#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion: 114 Resp: 589836
 Ion Ratio Lower Upper
 114 100
 63 20.5 16.9 25.3
 88 15.0 12.8 19.2





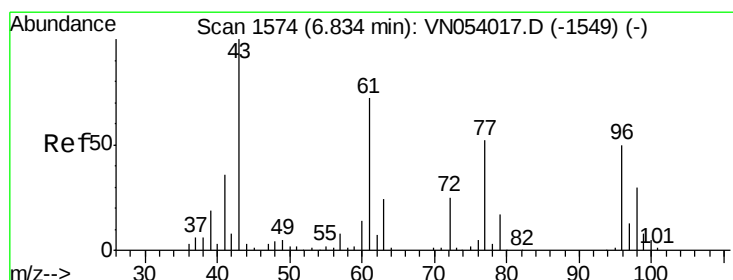
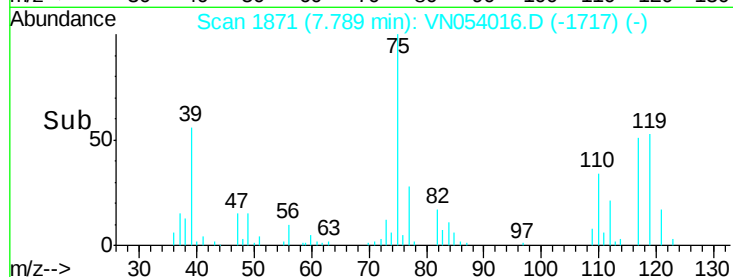
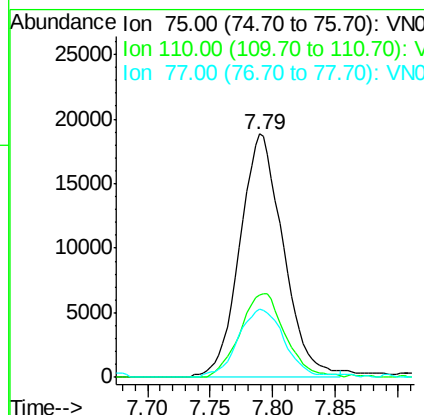
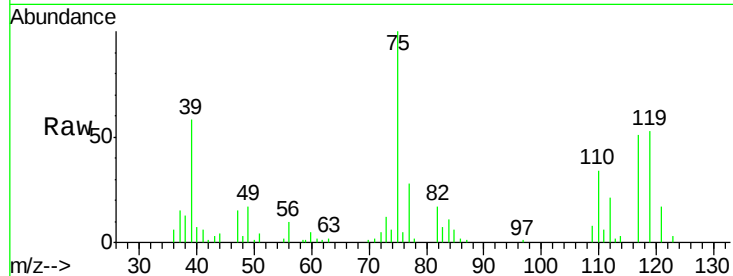
#29
 1,1-Dichloropropene
 Concen: 5.093 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
110	35.7	0.0	70.2
77	29.7	0.0	62.6

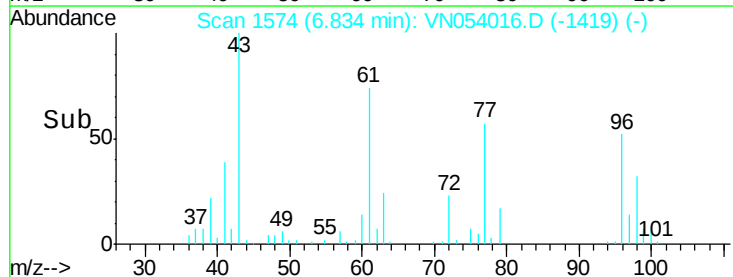
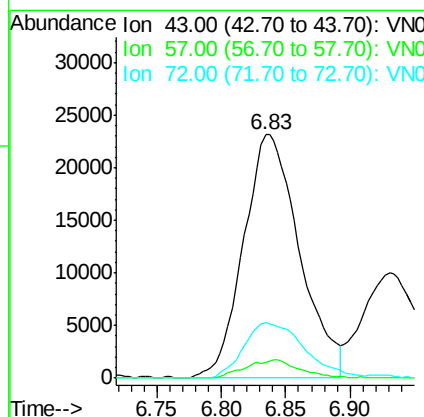
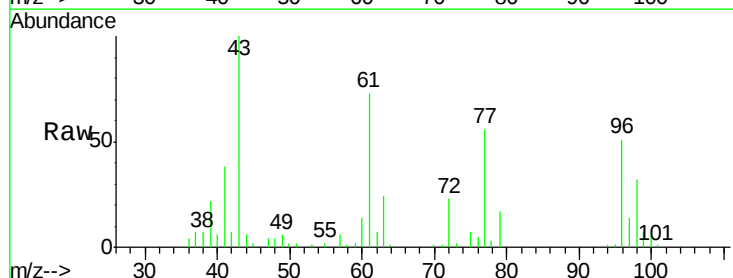
Manual Integrations
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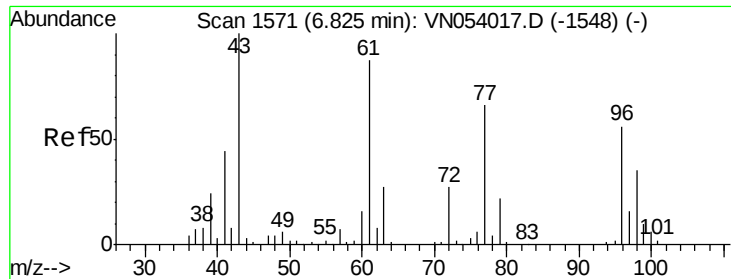
MMDadoda
 3/6/2019 10:23:05 AM



#30
 2-Butanone
 Concen: 31.438 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
43	100		
57	2.6	6.2	9.4#
72	24.6	21.0	31.6





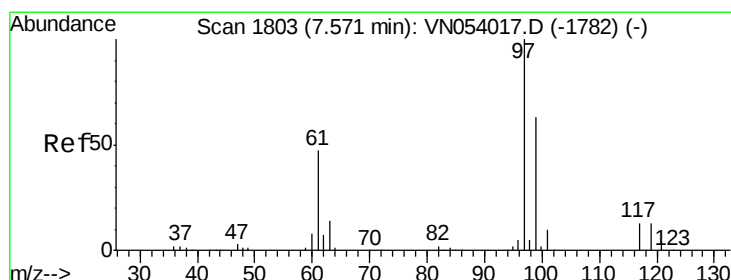
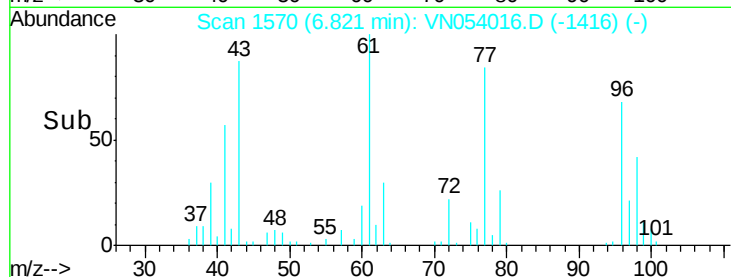
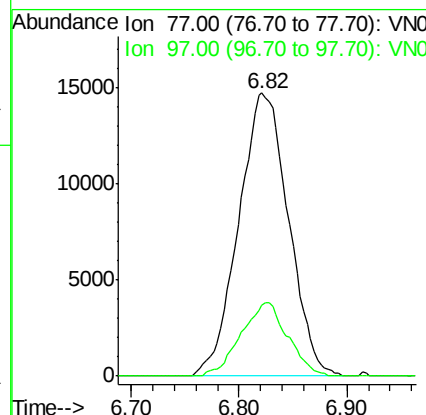
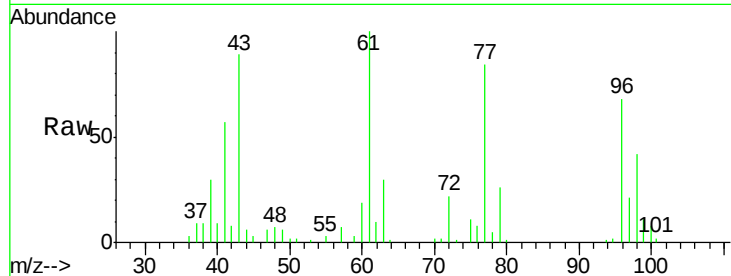
#31
 2,2-Dichloropropane
 Concen: 5.473 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 77 Resp: 47336
 Ion Ratio Lower Upper
 77 100
 97 24.2 18.7 28.1

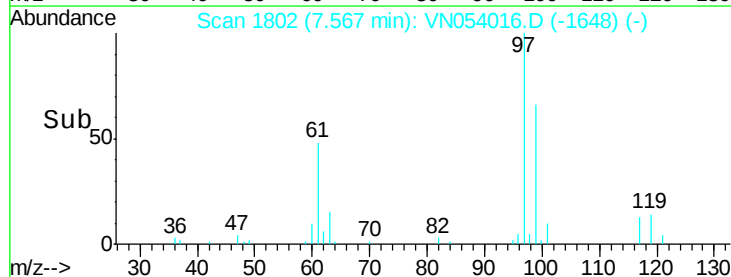
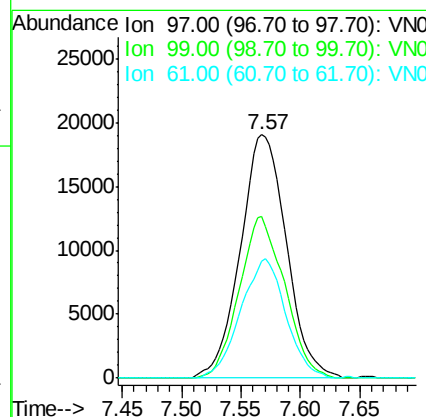
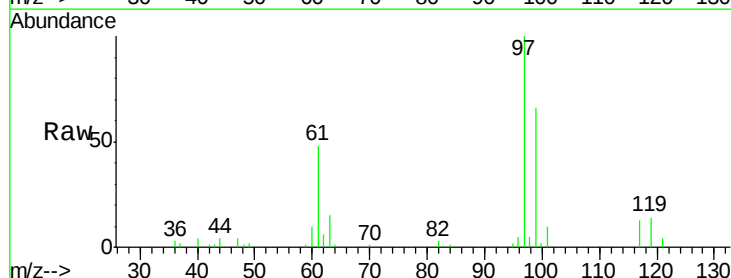
Manual Integrations
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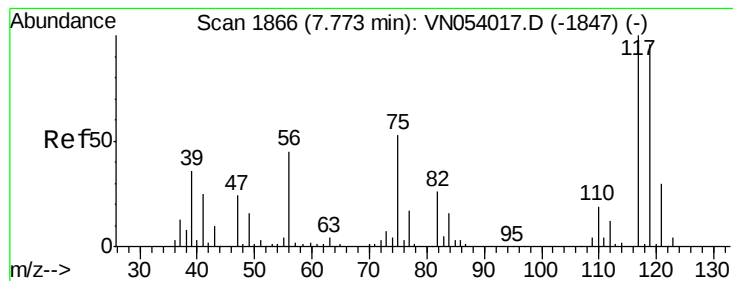
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#32
 1,1,1-Trichloroethane
 Concen: 5.464 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion: 97 Resp: 51145
 Ion Ratio Lower Upper
 97 100
 99 65.2 50.9 76.3
 61 47.9 38.1 57.1





#33

Carbon Tetrachloride

Concen: 5.490 ug/l

RT: 7.77 min Scan# 1865

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

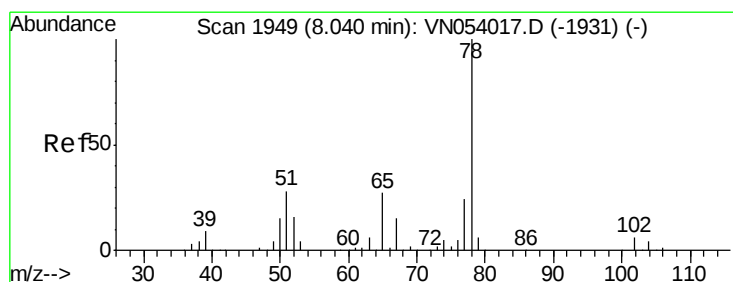
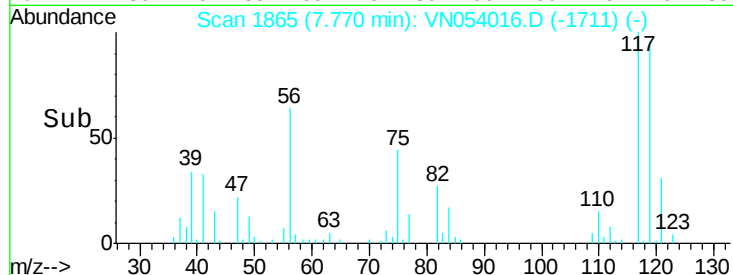
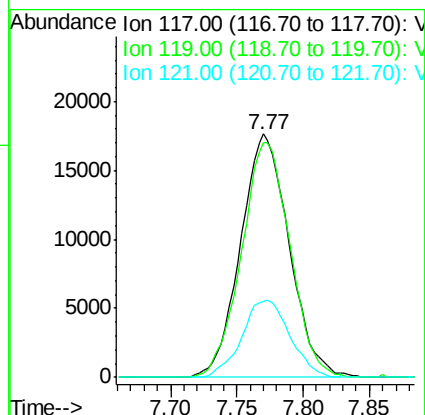
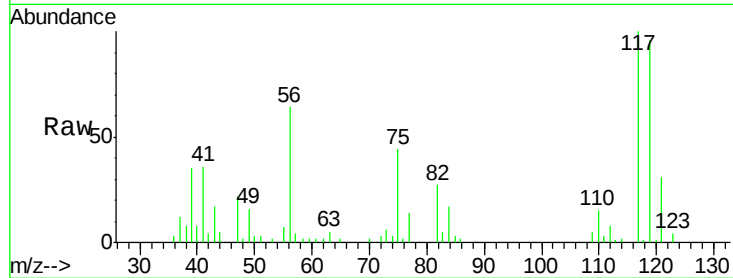
ClientSampled :

VSTDIC005

Tot Ion:	117	Resp:	44989
Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.3	115.9
121	31.4	24.9	37.3

Manual Integrations
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3/6/2019 10:23:05 AM



#34

Benzene

Concen: 5.095 ug/l

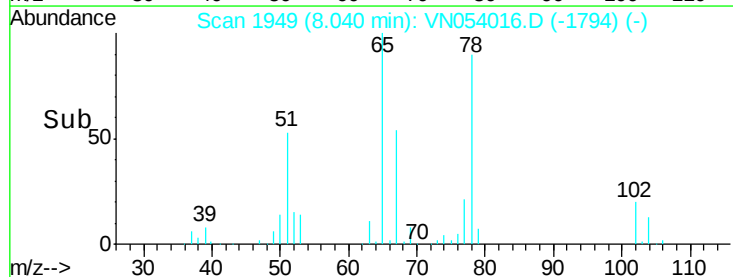
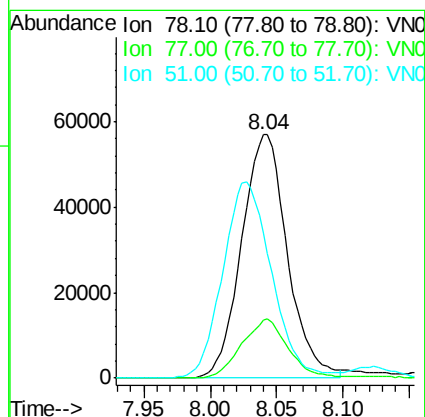
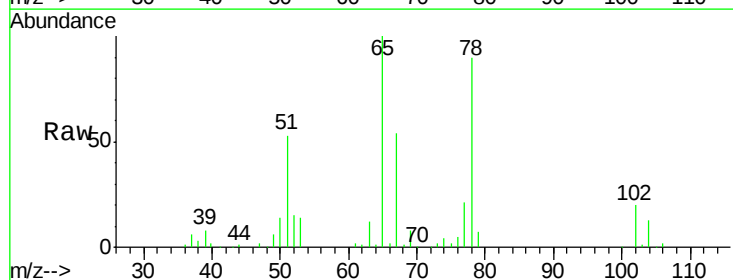
RT: 8.04 min Scan# 1949

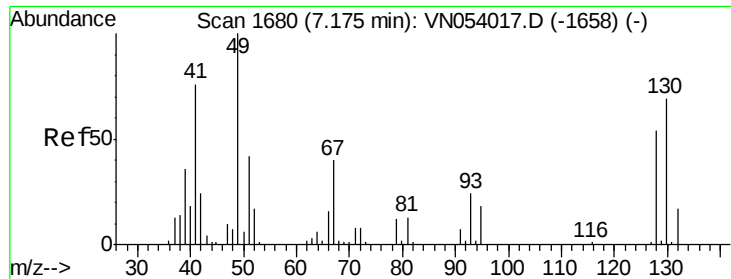
Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Tgt Ion:	78	Resp:	136800
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6
51	57.1	20.5	30.7#





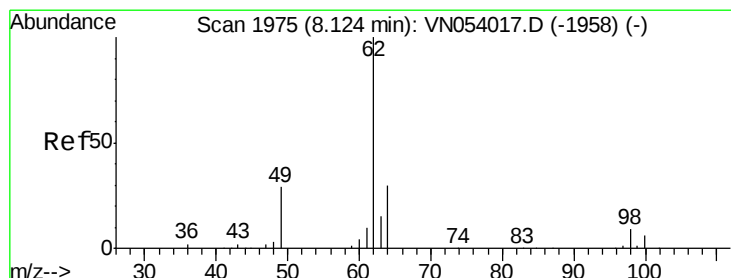
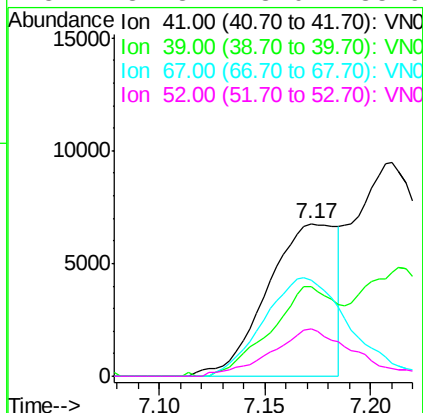
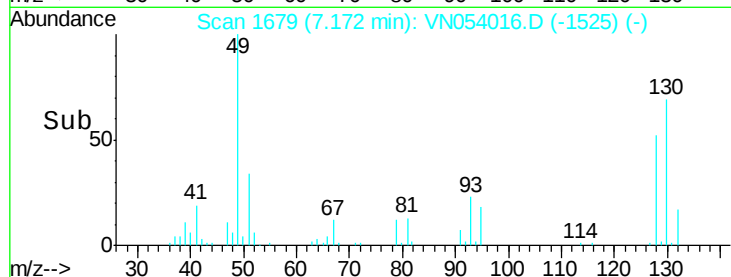
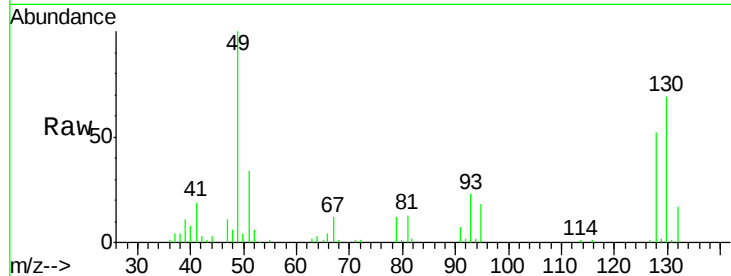
#35
Methacrylonitrile
Concen: 5.379 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	56.3	26.6	79.7		
67	63.0	32.3	96.9		
52	31.3	13.0	38.9		

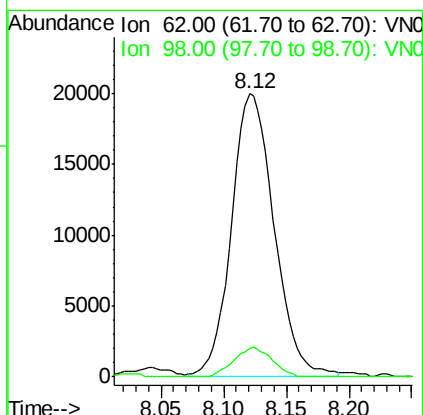
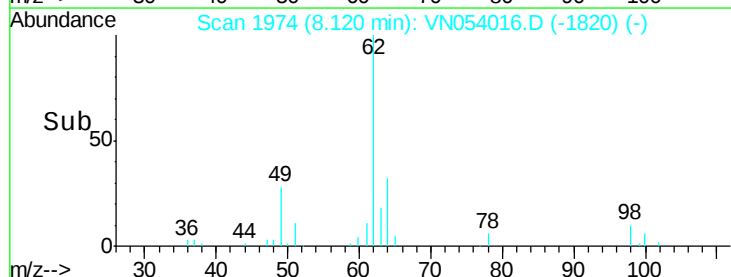
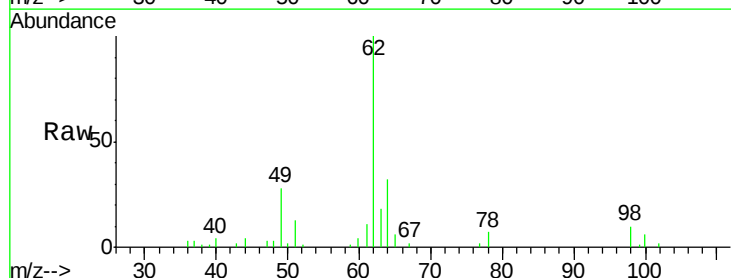
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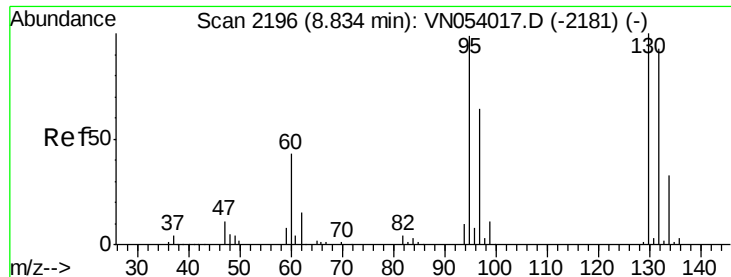
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3/6/2019 10:23:05 AM



#36
1,2-Dichloroethane
Concen: 6.074 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	9.2	7.4	11.2		





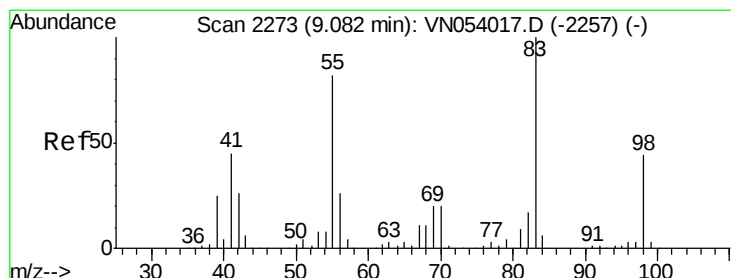
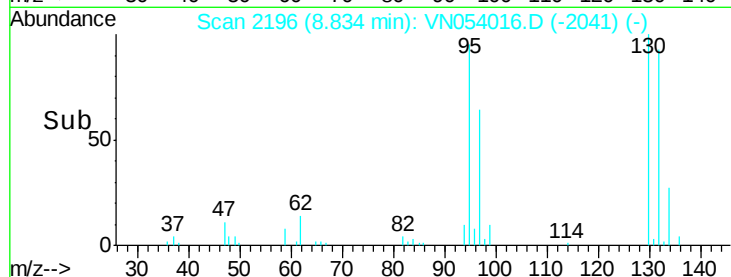
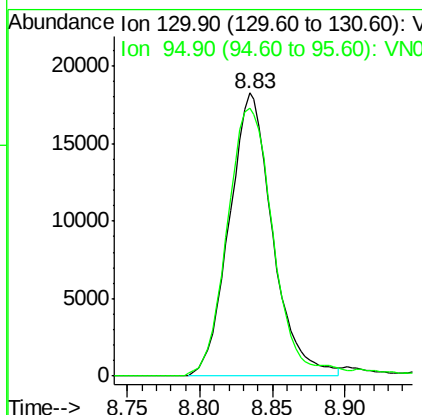
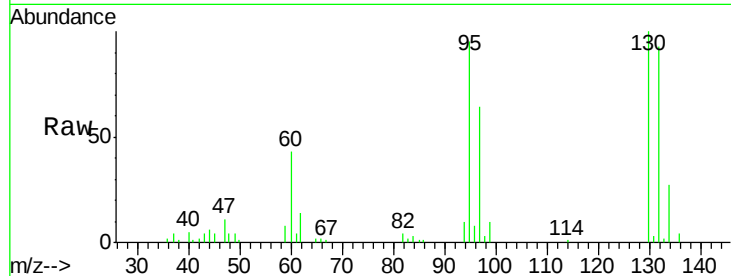
#37
 Trichloroethene
 Concen: 5.221 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:130 Resp: 37977
 Ion Ratio Lower Upper
 130 100
 95 93.9 81.0 121.4

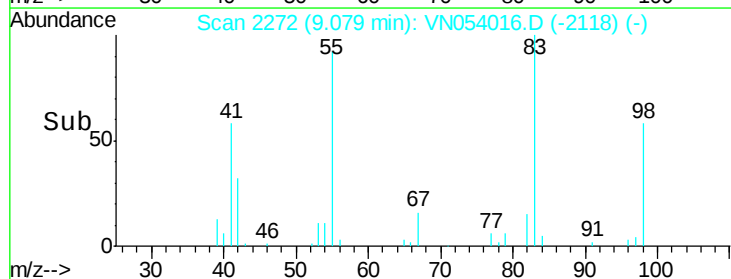
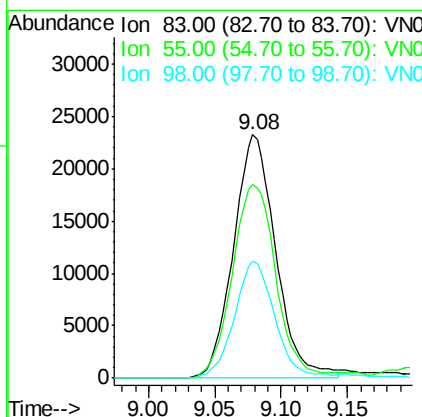
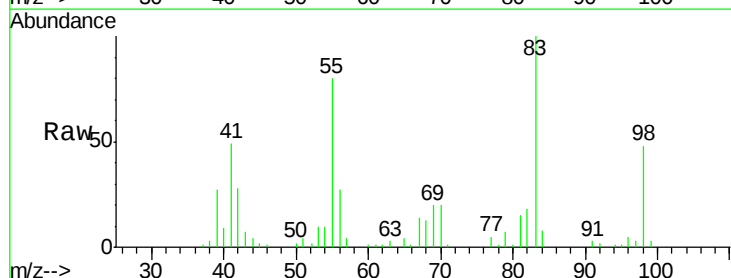
Manual Integrations
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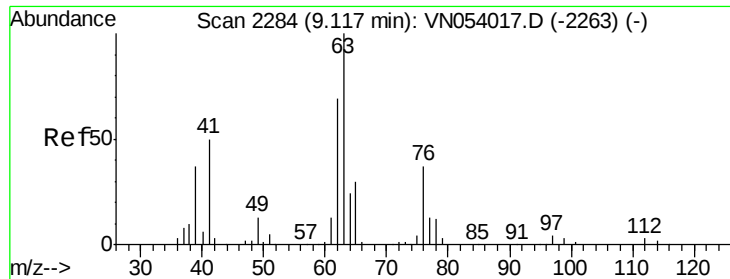
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 3/6/2019 10:23:05 AM



#38
 Methylcyclohexane
 Concen: 4.929 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion: 83 Resp: 51508
 Ion Ratio Lower Upper
 83 100
 55 82.7 39.8 119.4
 98 45.7 22.9 68.5





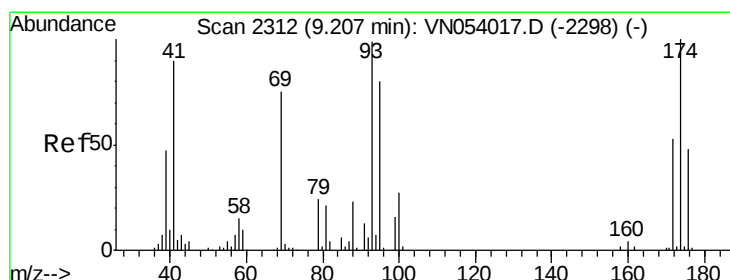
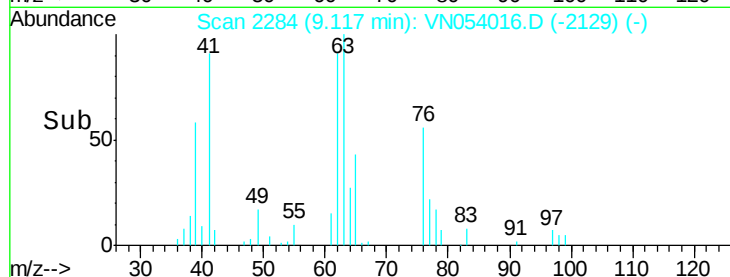
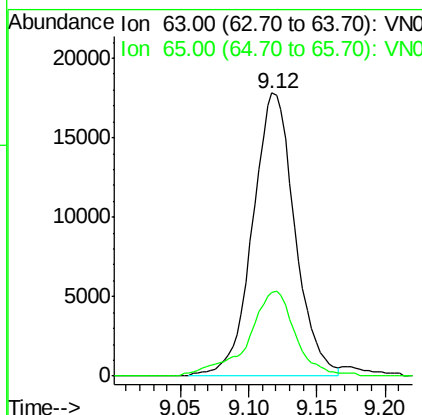
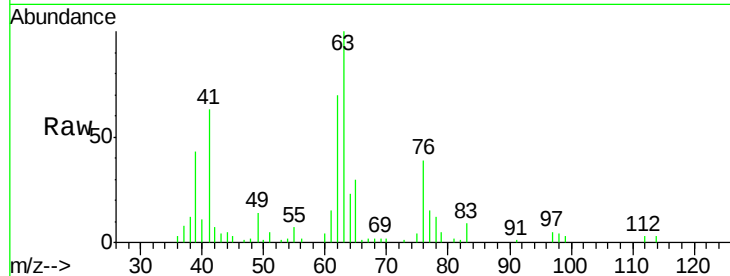
#39
 1,2-Dichloropropane
 Concen: 5.462 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion: 63 Resp: 38299
 Ion Ratio Lower Upper
 63 100
 65 28.4 23.6 35.4

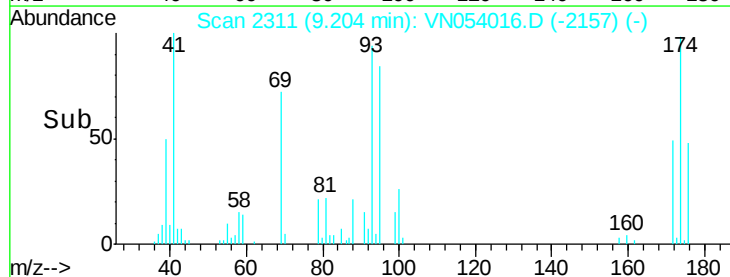
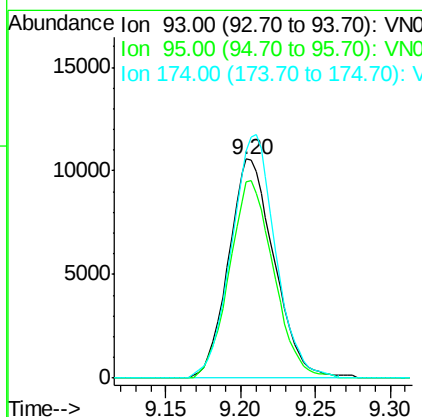
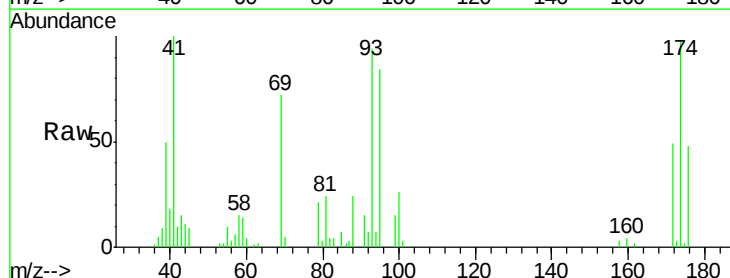
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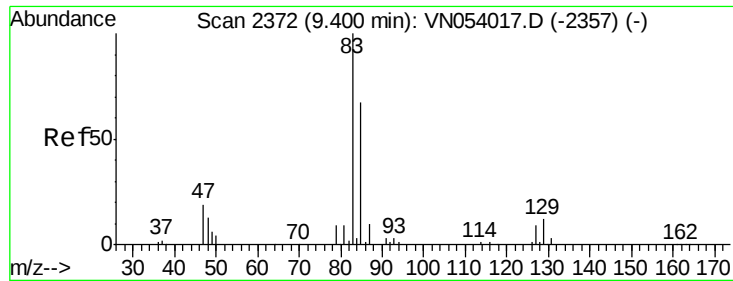
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#40
 Dibromomethane
 Concen: 5.657 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion: 93 Resp: 22432
 Ion Ratio Lower Upper
 93 100
 95 87.5 0.0 168.4
 174 107.1 0.0 210.0





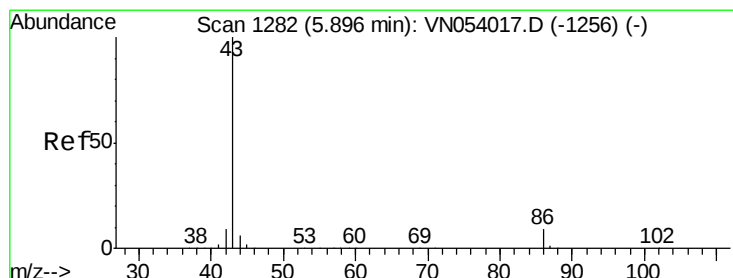
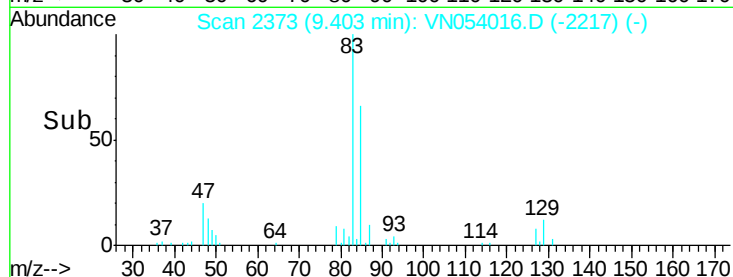
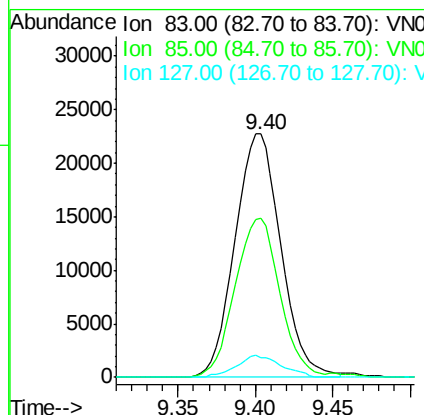
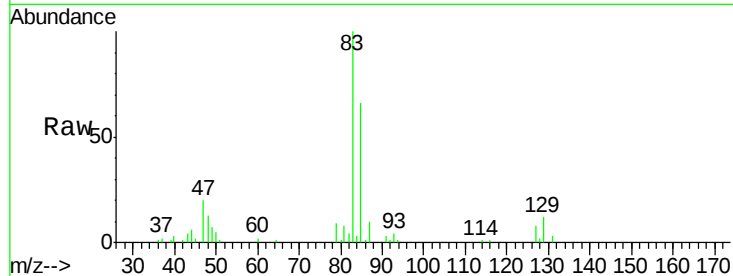
#41
 Bromodichloromethane
 Concen: 5.508 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	83	Resp	46904
Ion Ratio	100	Lower	Upper
83	100		
85	65.6	52.4	78.6
127	8.3	6.6	9.8

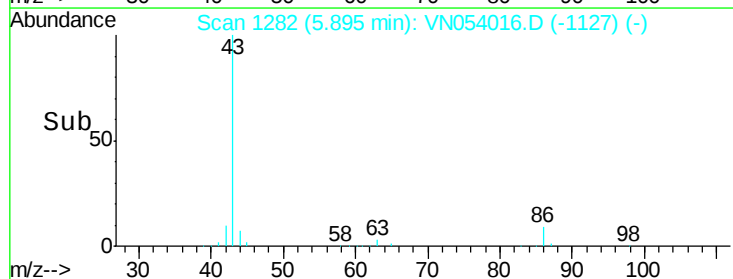
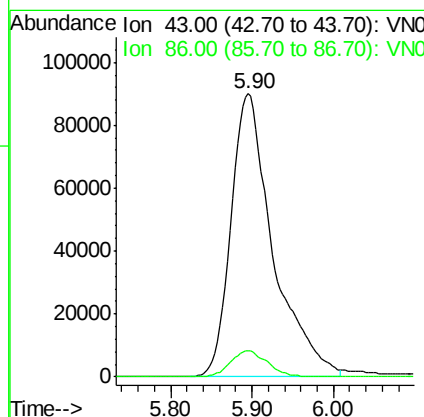
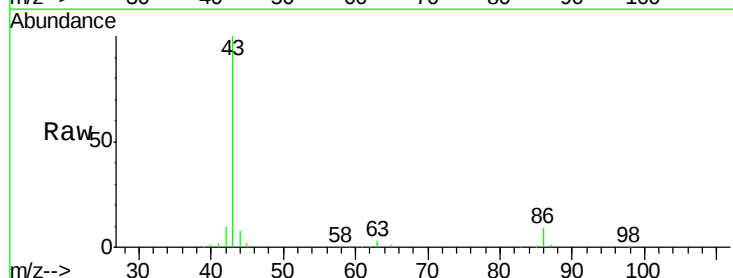
Manual Integrations
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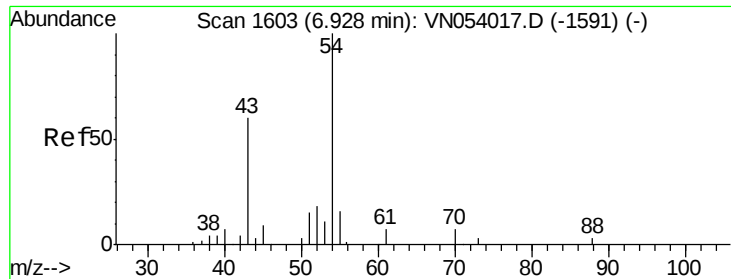
MMDadoda
 3/6/2019 10:23:05 AM



#42
 Vinyl Acetate
 Concen: 26.651 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion	43	Resp	324098
Ion Ratio	100	Lower	Upper
43	100		
86	8.2	6.5	9.7





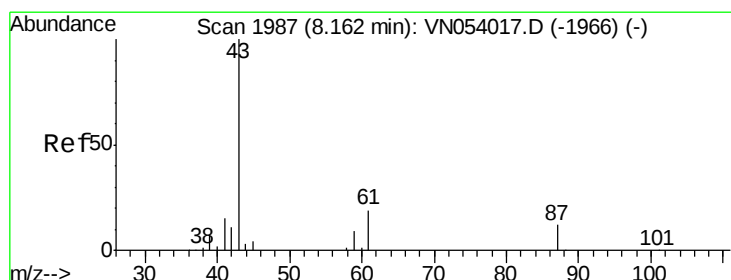
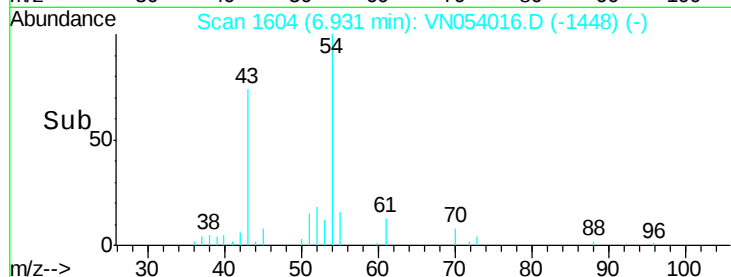
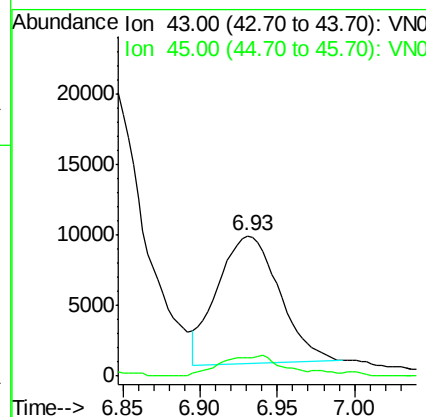
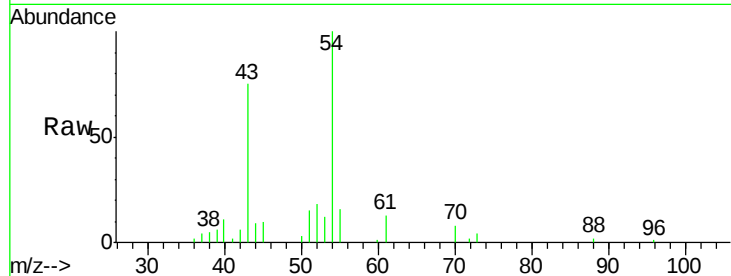
#43
Ethyl Acetate
Concen: 5.115 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 43 Resp: 25464
Ion Ratio Lower Upper
43 100
45 15.4 1.0 1.6#

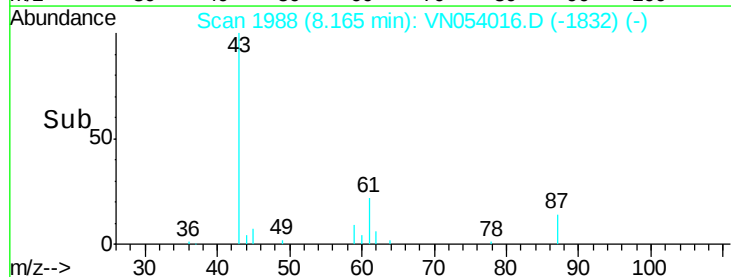
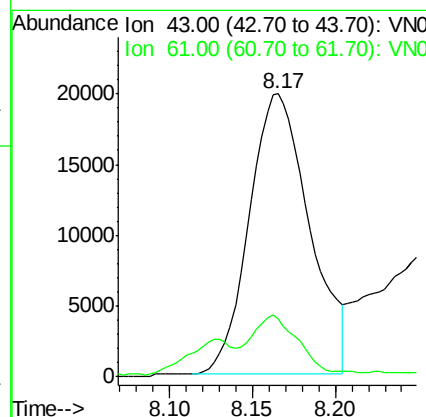
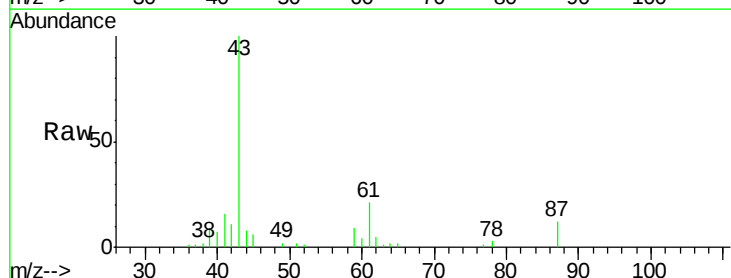
Manual Integrations
APPROVED

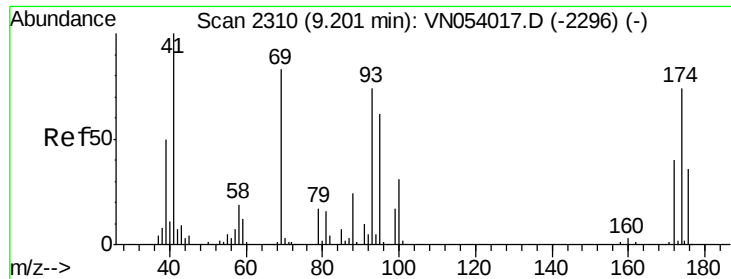
MMDadoda
3/6/2019 10:23:05 AM



#44
Isopropyl Acetate
Concen: 5.394 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion: 43 Resp: 50016
Ion Ratio Lower Upper
43 100
61 14.7 16.0 24.0#





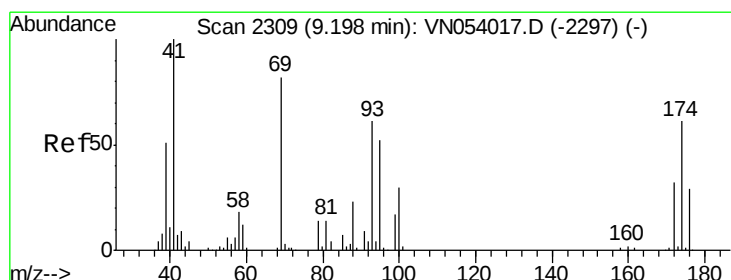
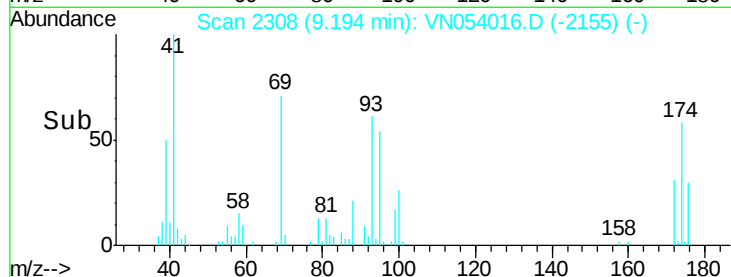
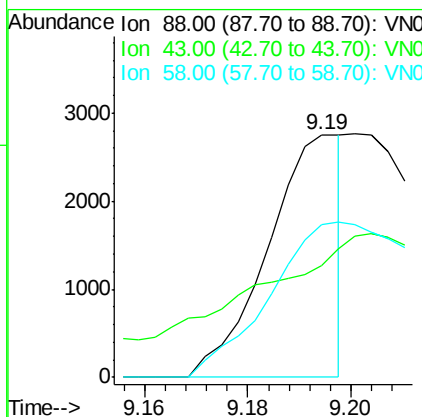
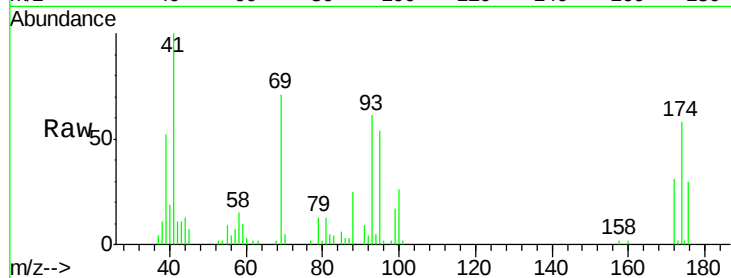
#45
 1,4-Dioxane
 Concen: 48.233 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. -0.01 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	97.8	29.5	44.3#
58	154.6	61.5	92.3#

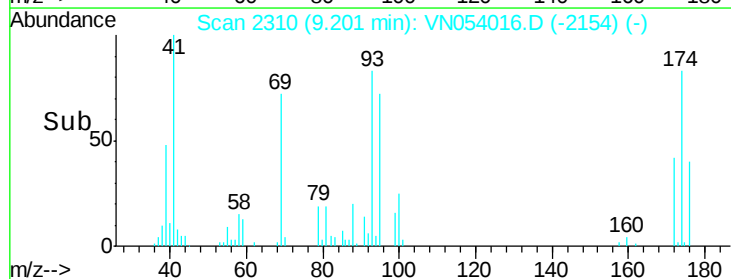
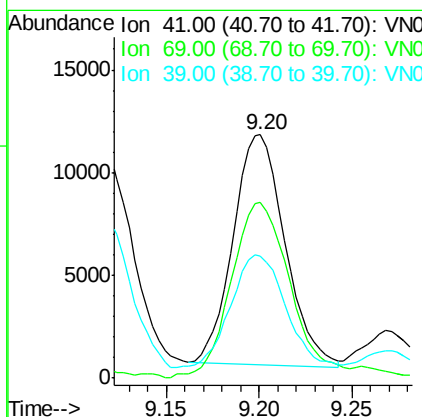
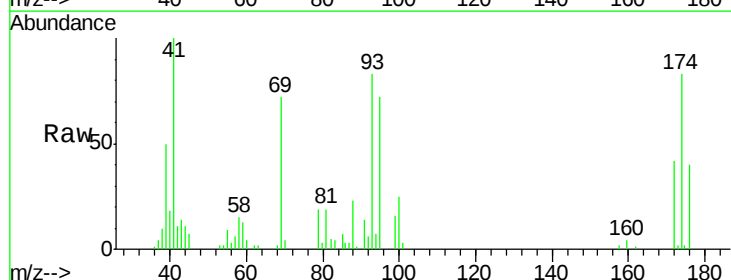
Manual Integrations
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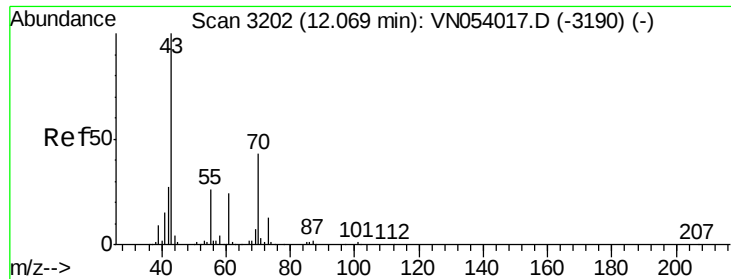
MMDadoda
 3/6/2019 10:23:05 AM



#46
 Methyl methacrylate
 Concen: 4.642 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
41	100		
69	75.1	42.5	127.6
39	48.2	26.3	78.9





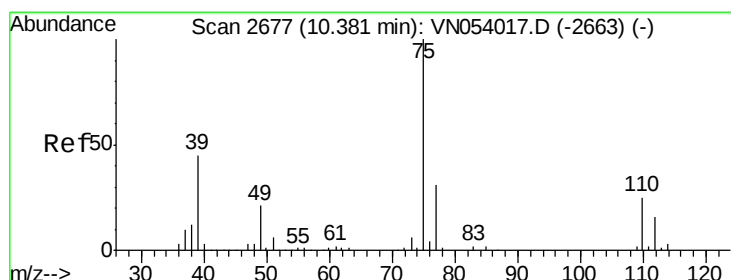
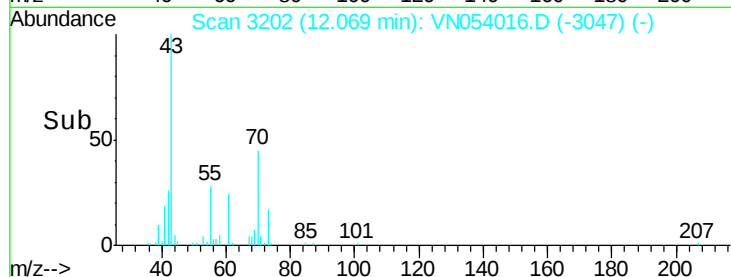
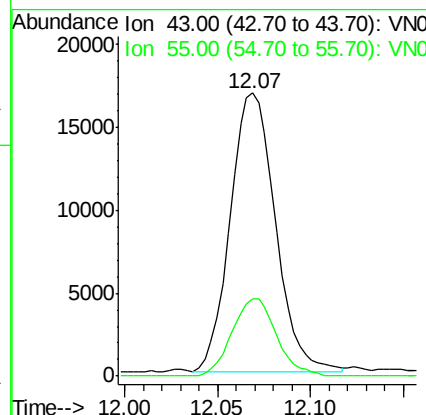
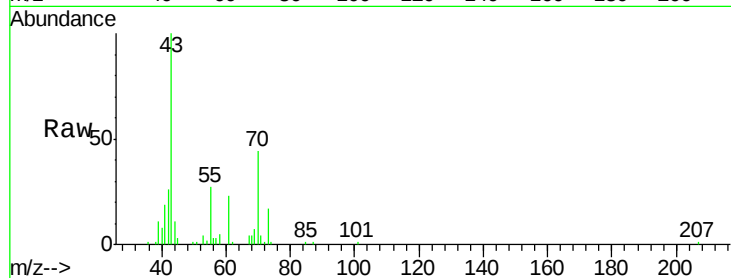
#47
n-amvl Acetate
Concen: 3.474 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 28288
Ion Ratio Lower Upper
43 100
55 27.5 21.1 31.7

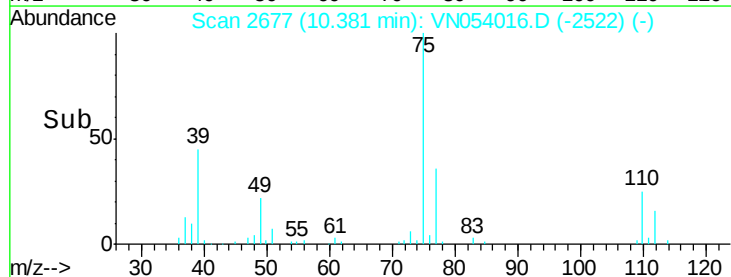
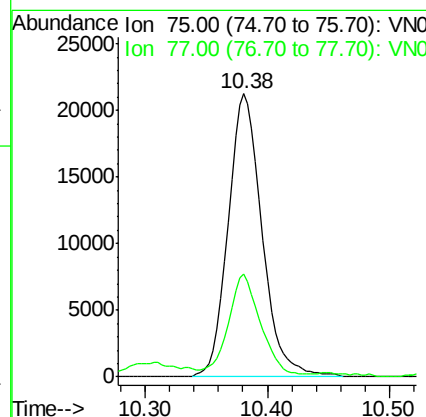
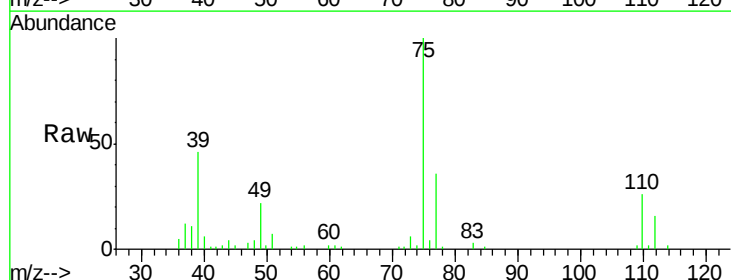
Manual Integrations
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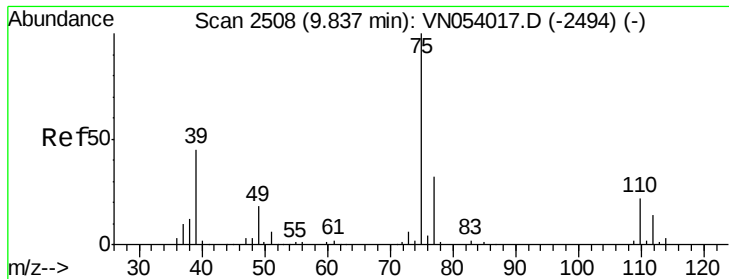
MMDadoda
3/6/2019 10:23:05 AM



#48
t-1,3-Dichloropropene
Concen: 4.745 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion: 75 Resp: 41240
Ion Ratio Lower Upper
75 100
77 35.4 25.6 38.4





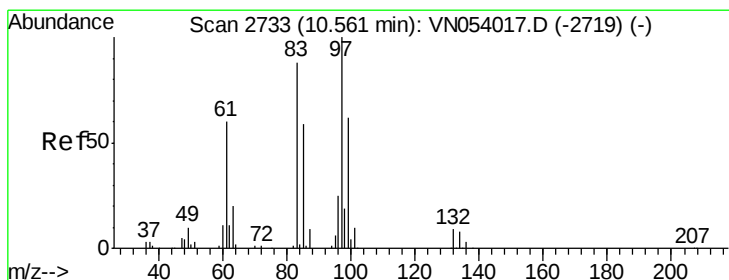
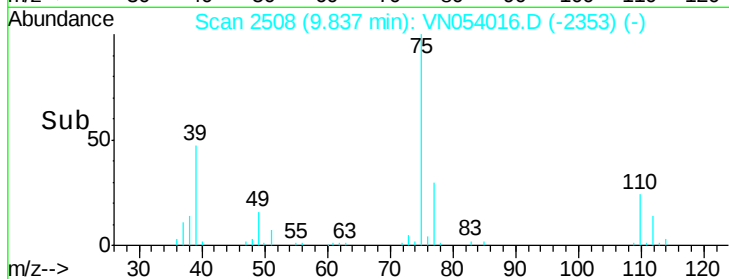
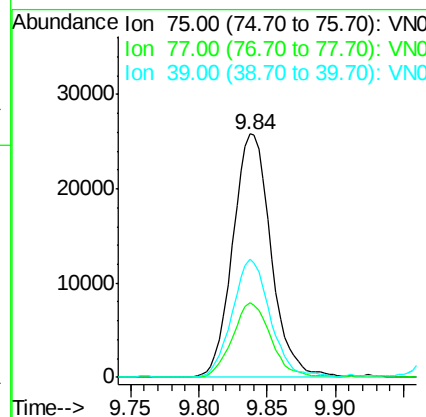
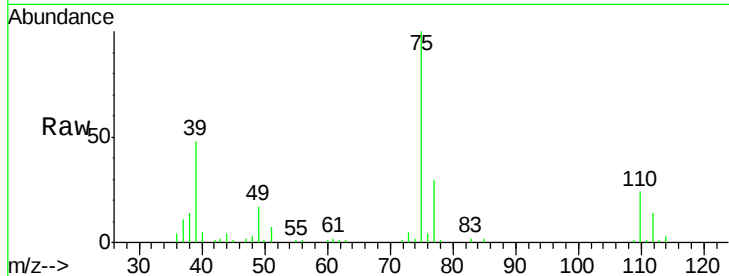
#49
 cis-1,3-Dichloropropene
 Concen: 4.926 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	75	Resp:	50413
Ion Ratio	Lower	Upper	
75	100		
77	30.5	25.4	38.0
39	48.3	37.3	55.9

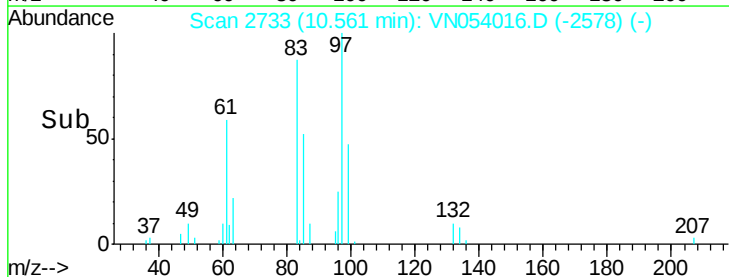
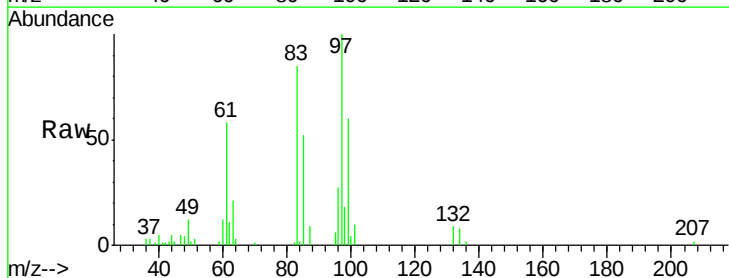
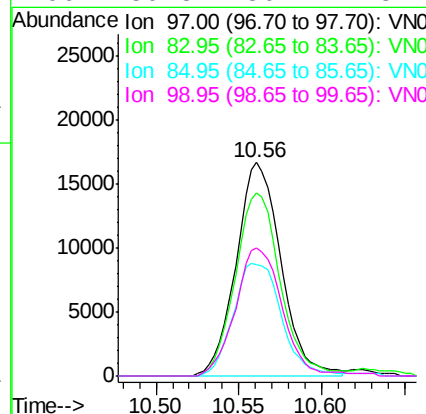
Manual Integrations
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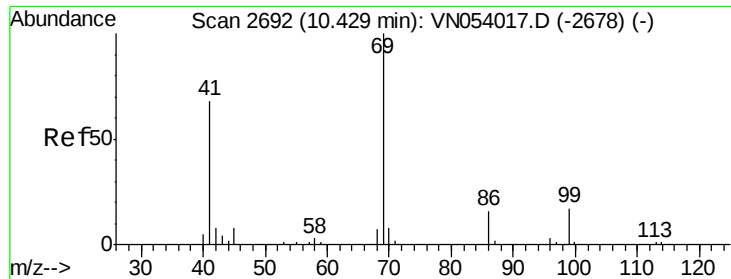
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#50
 1,1,2-Trichloroethane
 Concen: 5.519 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion:	97	Resp:	31377
Ion Ratio	Lower	Upper	
97	100		
83	85.5	70.4	105.6
85	52.2	45.0	67.6
99	59.8	50.2	75.2





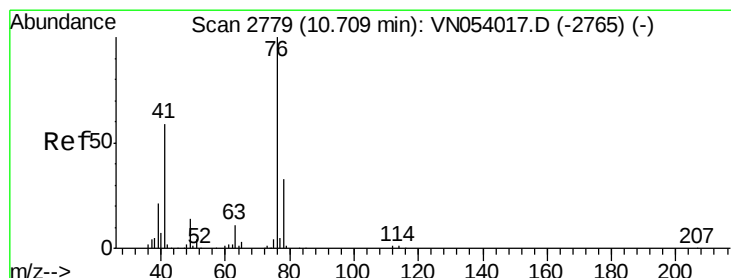
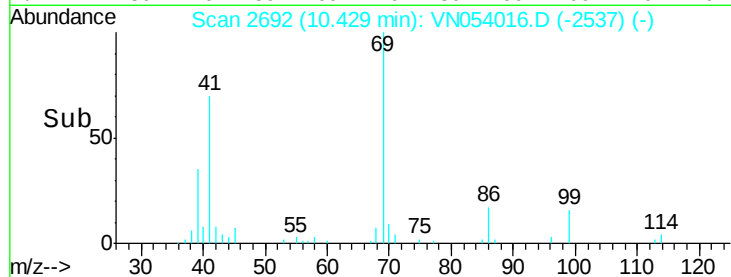
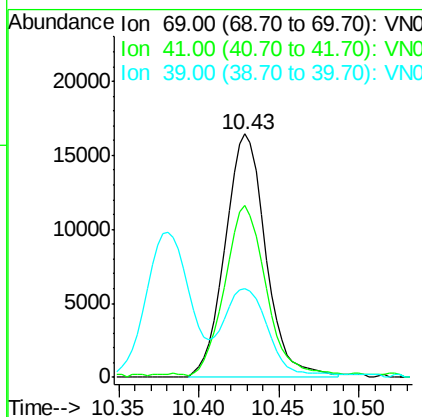
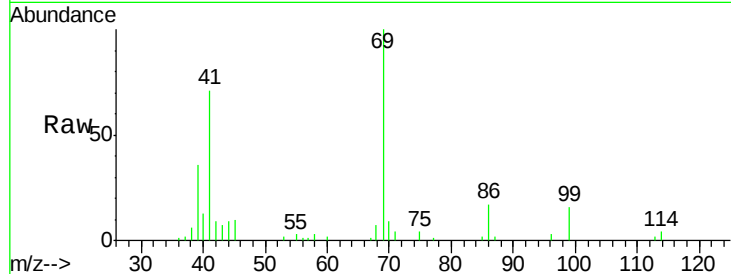
#51
Ethyl methacrylate
Concen: 3.853 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
69	100		
41	70.0	34.4	103.3
39	35.3	16.4	49.2

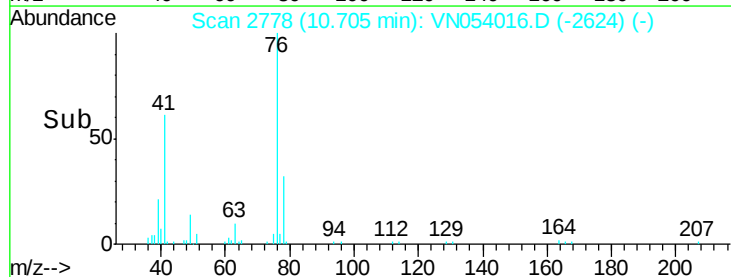
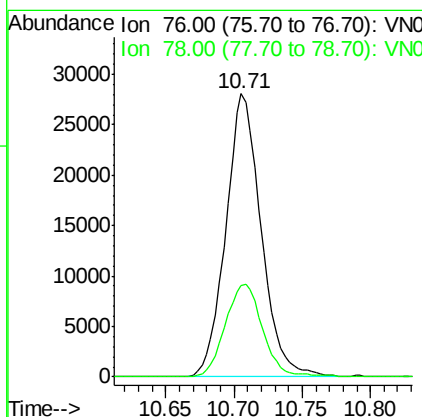
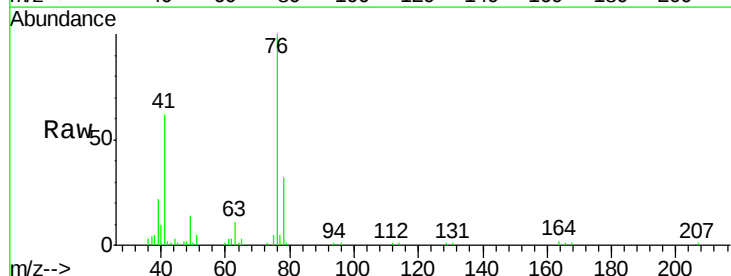
Manual Integrations
APPROVED

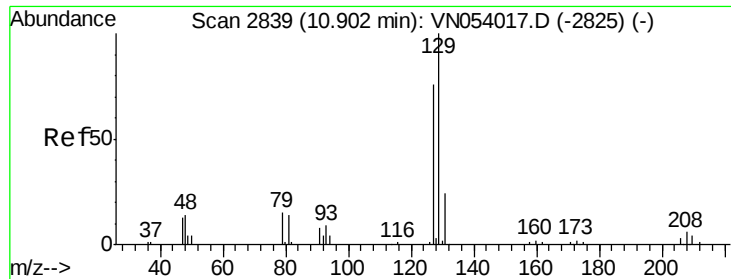
MMDadoda
3/6/2019 10:23:05 AM



#52
1,3-Dichloropropane
Concen: 5.160 ug/l
RT: 10.71 min Scan# 2778
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
76	100		
78	34.7	0.0	64.8





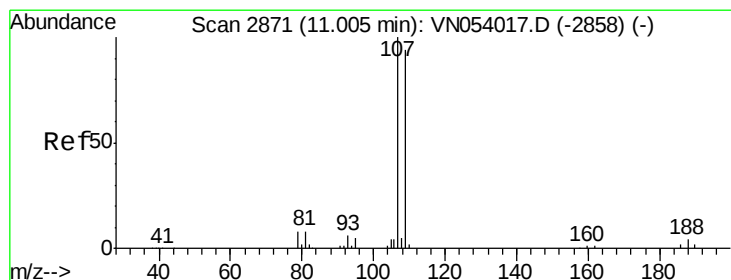
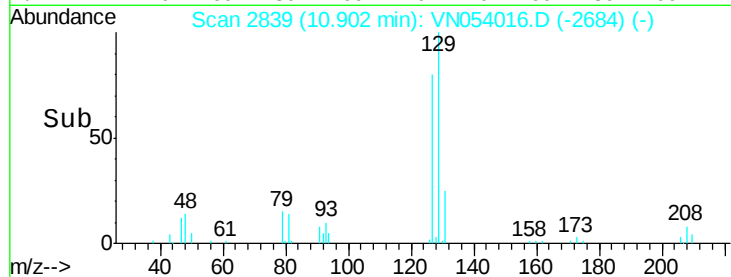
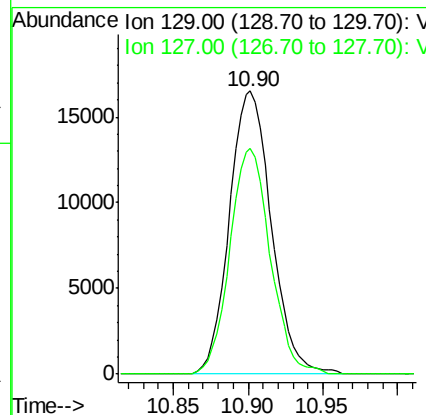
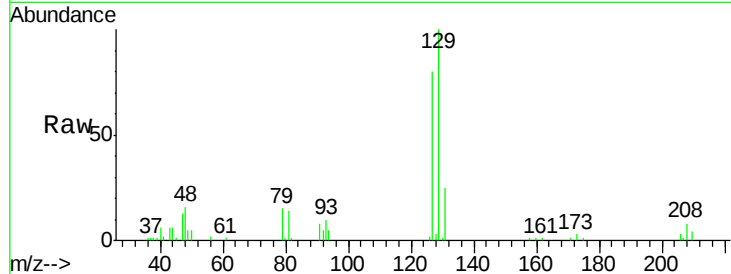
#53
Dibromochloromethane
Concen: 5.044 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:129 Resp: 32211
Ion Ratio Lower Upper
129 100
127 76.8 37.6 112.8

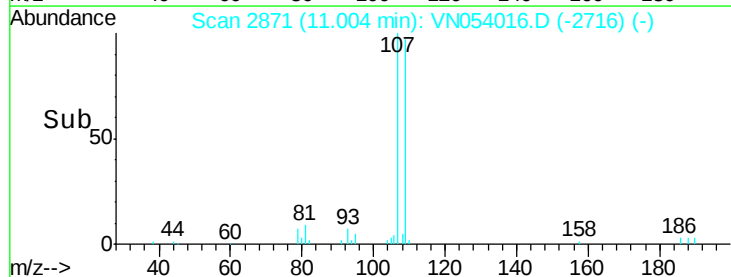
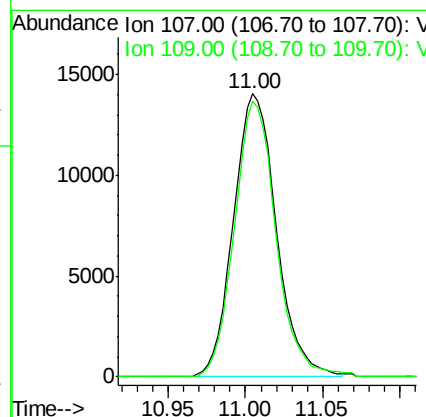
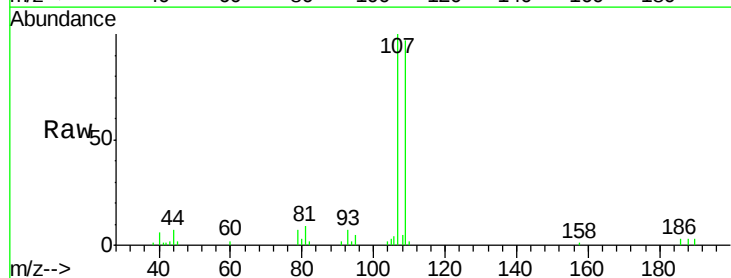
Manual Integrations
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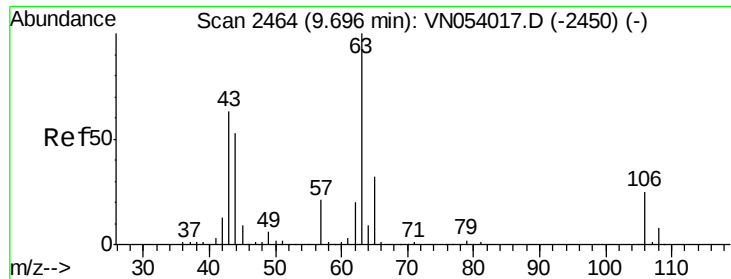
MMDadoda
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#54
1,2-Dibromoethane
Concen: 4.729 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion:107 Resp: 27126
Ion Ratio Lower Upper
107 100
109 94.1 77.1 115.7





#55

2-Chloroethyl vinyl ether

Concen: 15.049 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

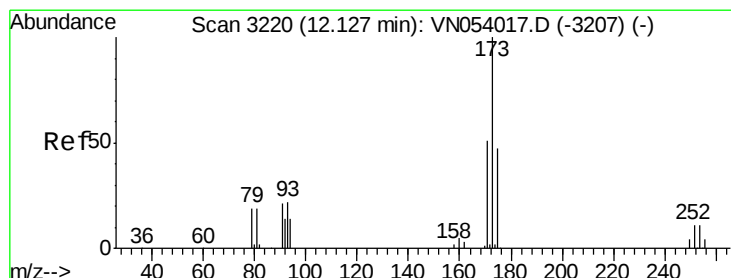
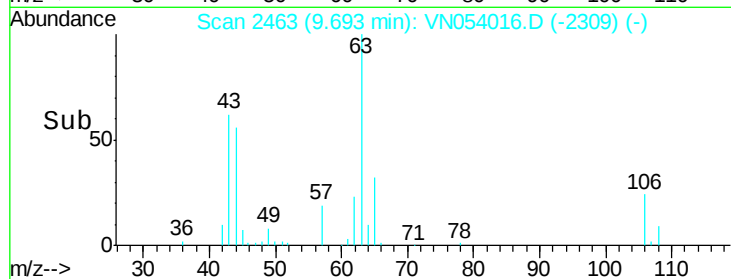
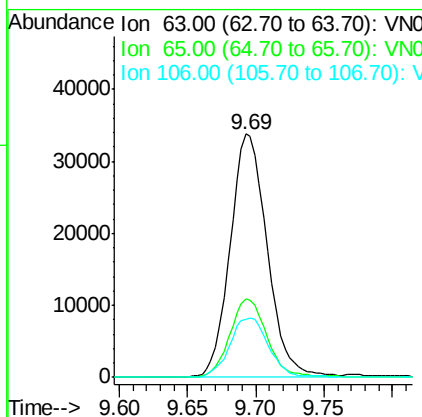
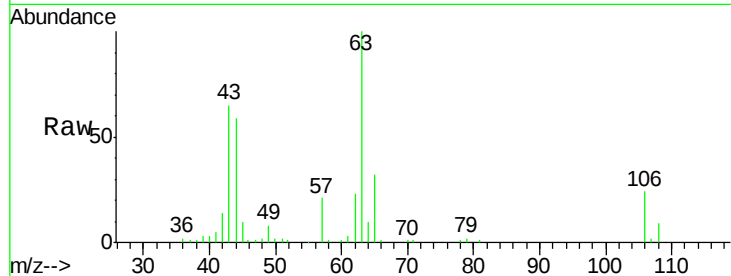
ClientSampled :

VSTDIC005

Tot Ion:	63	Resp:	63995
Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.4	38.2
106	25.0	20.4	30.6

Manual Integrations
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3/6/2019 10:23:05 AM



#56

Bromoform

Concen: 4.515 ug/l

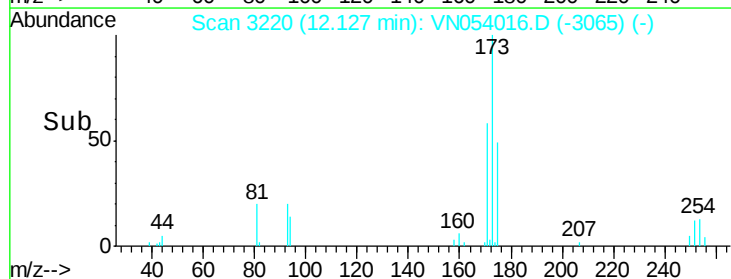
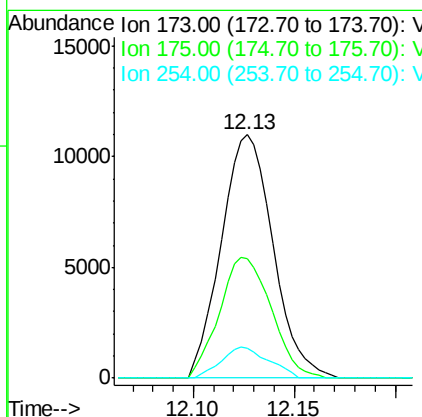
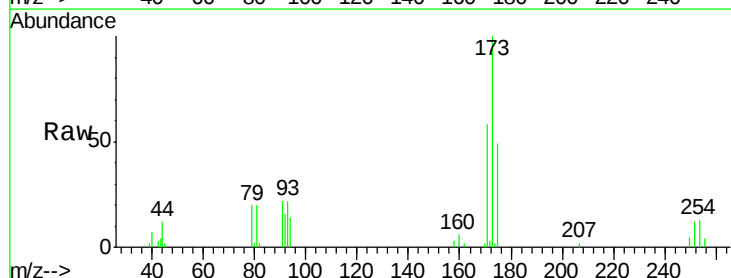
RT: 12.13 min Scan# 3220

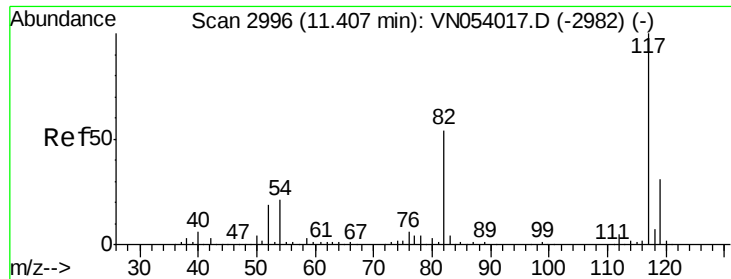
Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Tgt Ion:	173	Resp:	19724
Ion	Ratio	Lower	Upper
173	100		
175	49.5	38.7	58.1
254	11.6	8.4	12.6





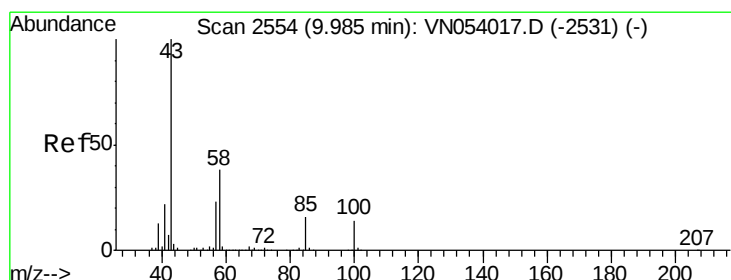
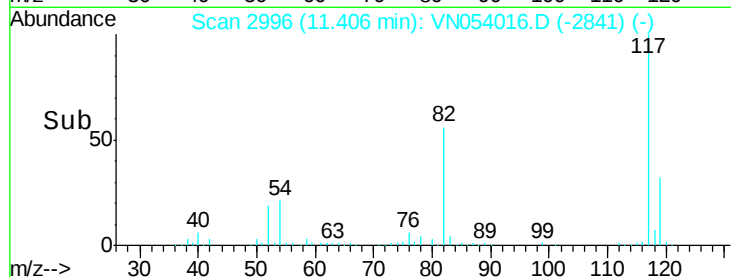
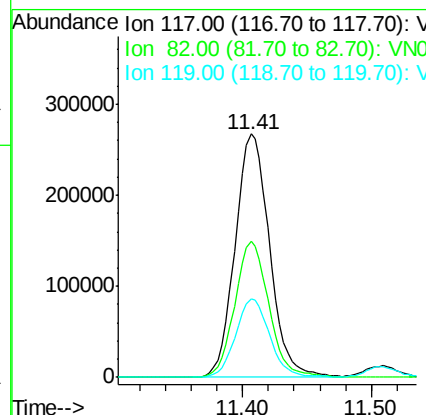
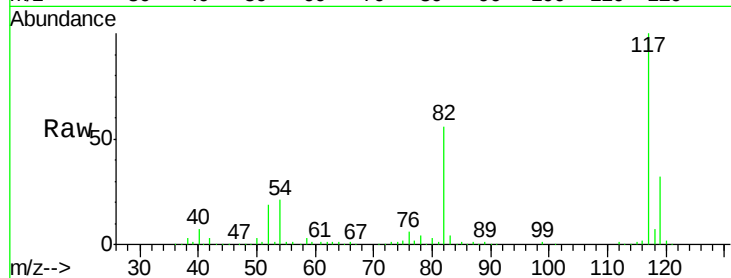
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.2	44.2	66.2
119	32.0	25.4	38.2

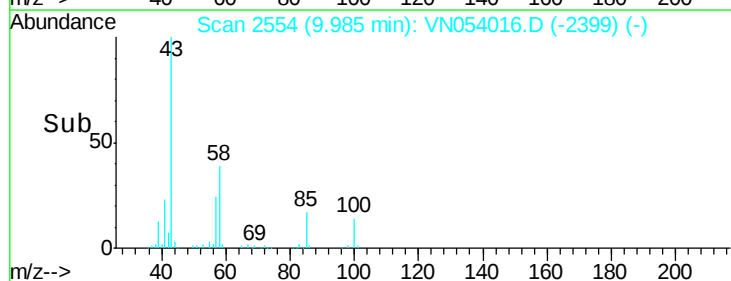
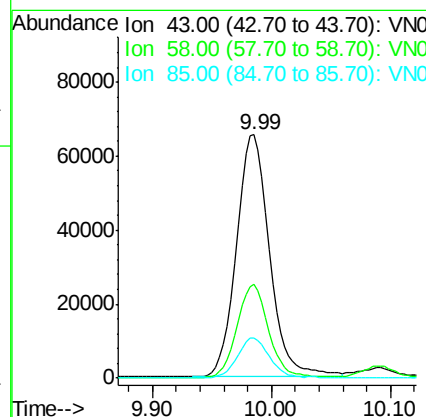
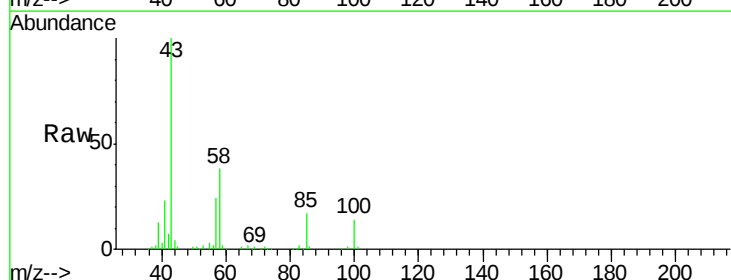
Manual Integrations
APPROVED

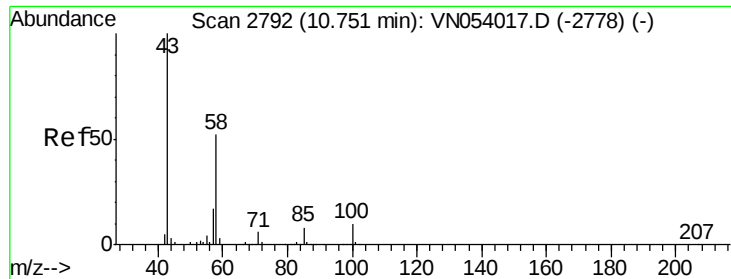
MMDadoda
3/6/2019 10:23:05 AM



#58
4-Methyl-2-Pentanone
Concen: 26.580 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.1	31.6	47.4
85	16.1	13.3	19.9





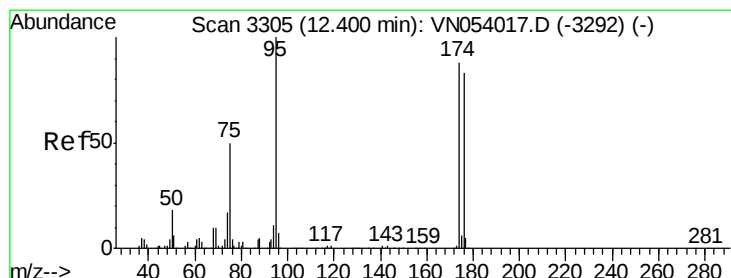
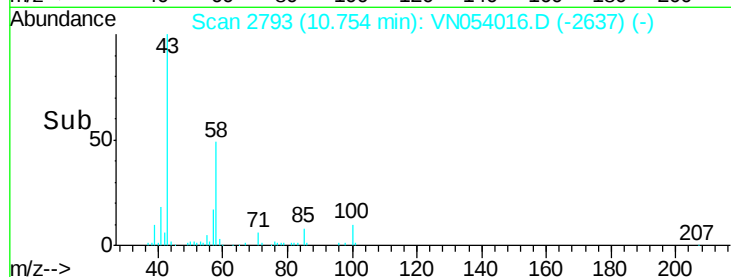
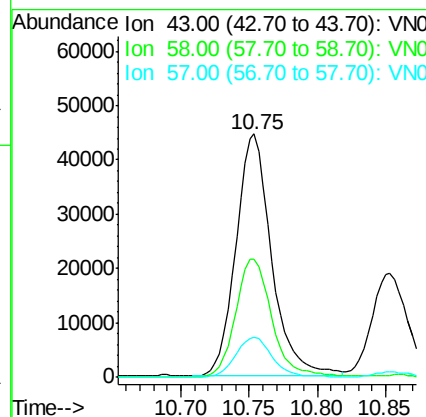
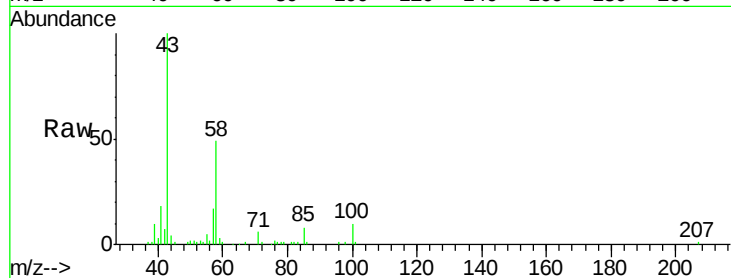
#59
2-Hexanone
Concen: 24.772 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.0	43.2	64.8
57	16.7	14.9	22.3

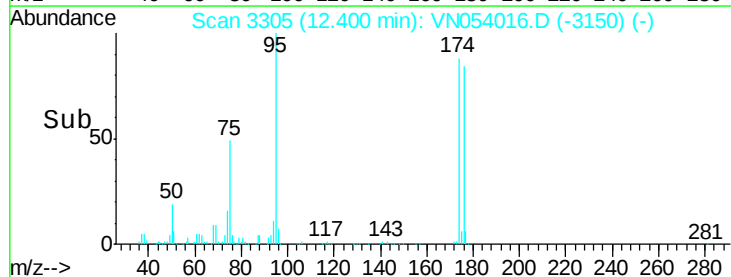
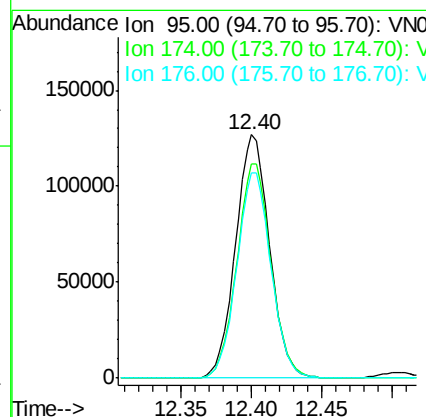
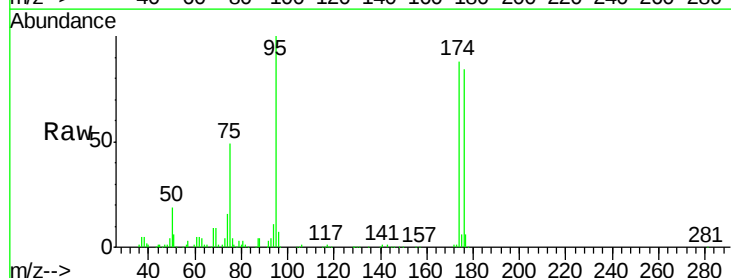
Manual Integrations
APPROVED

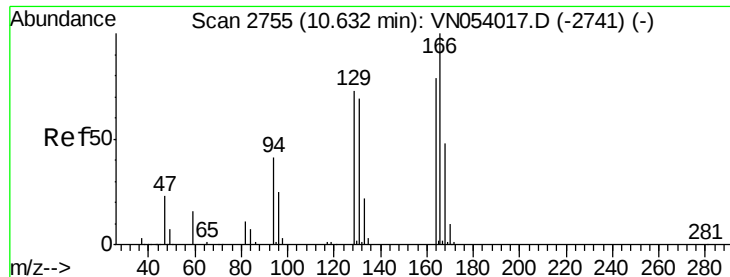
MMDadoda
3/6/2019 10:23:05 AM



#60
4-Bromofluorobenzene
Concen: 24.772 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.4	67.9	101.9
176	84.8	66.4	99.6





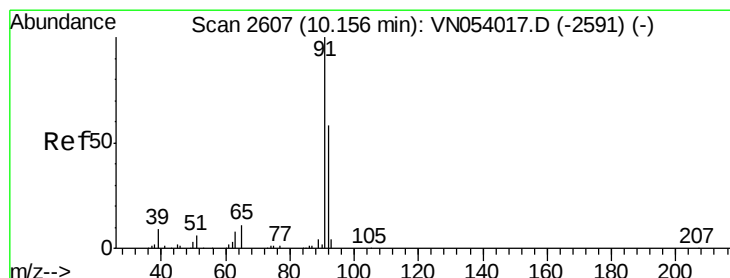
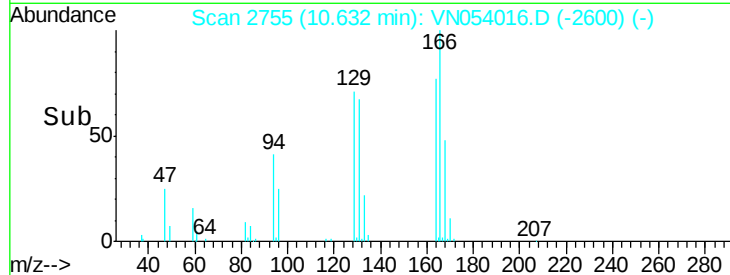
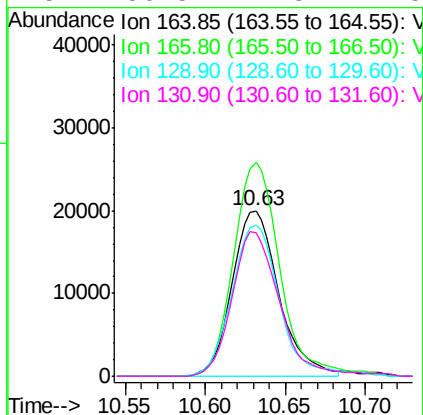
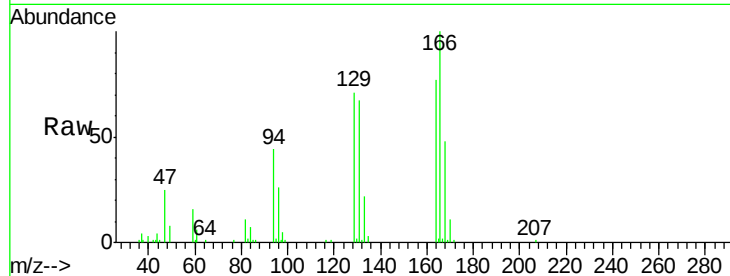
#61
Tetrachloroethene
Concen: 5.427 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
164	100		
166	129.2	104.6	157.0
129	91.0	75.3	112.9
131	86.5	74.3	111.5

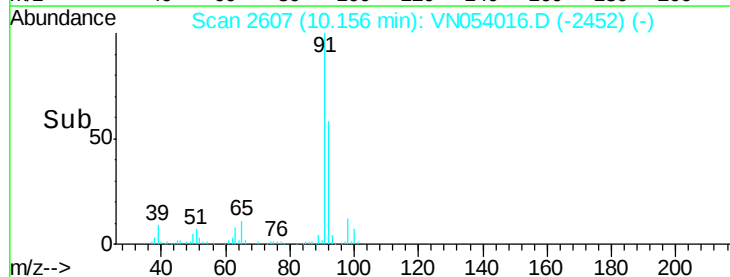
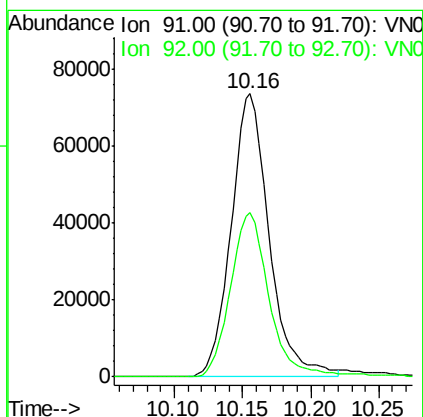
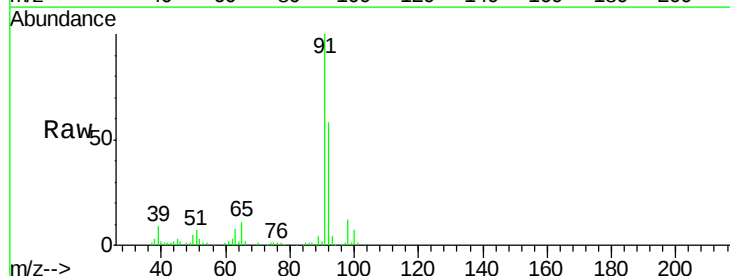
Manual Integrations
APPROVED

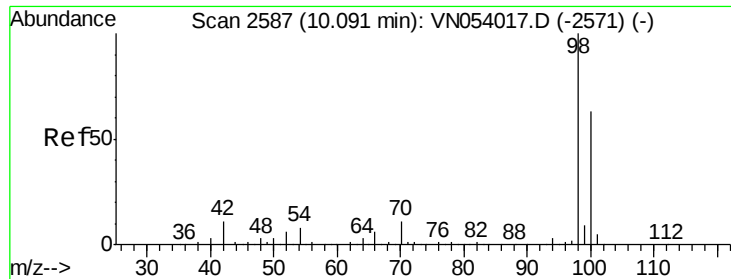
MMDadoda
3/6/2019 10:23:05 AM



#62
Toluene
Concen: 5.216 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.5	45.4	68.2





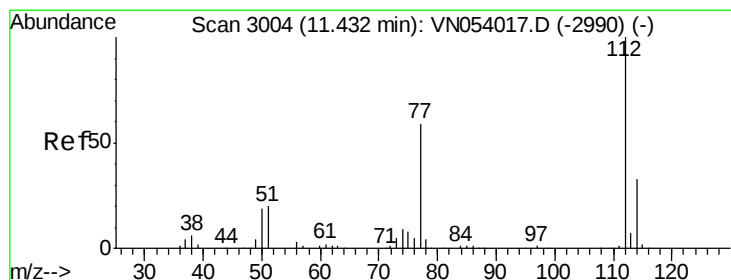
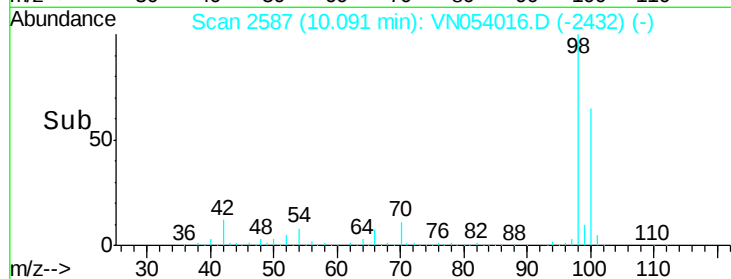
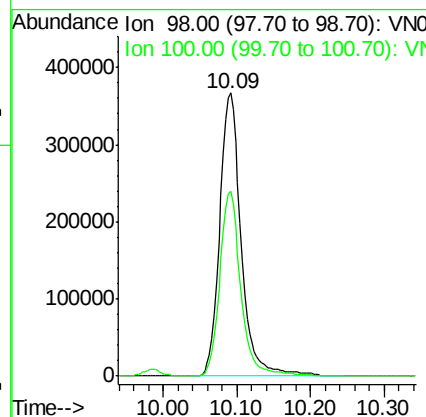
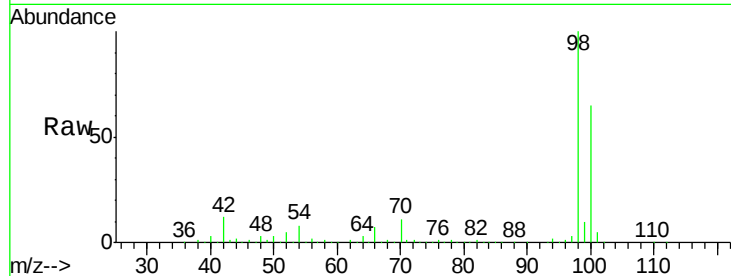
#63
Toluene-d8
Concen: 5.216 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 98 Resp: 741710
Ion Ratio Lower Upper
98 100
100 64.1 51.1 76.7

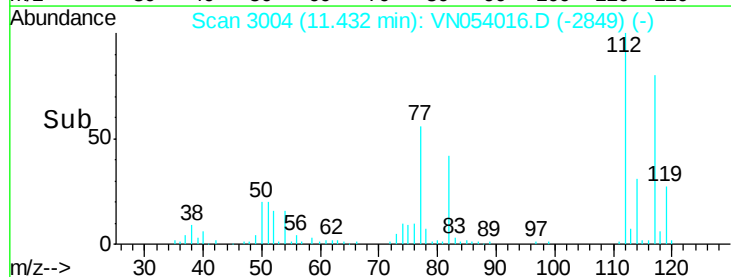
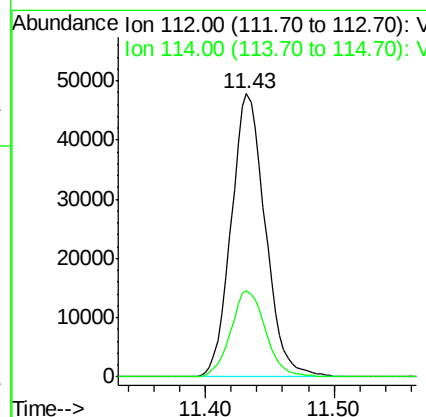
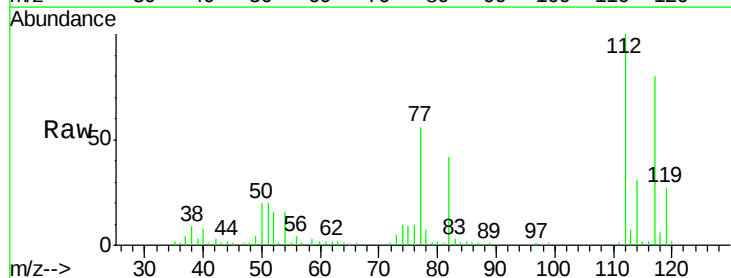
Manual Integrations
APPROVED

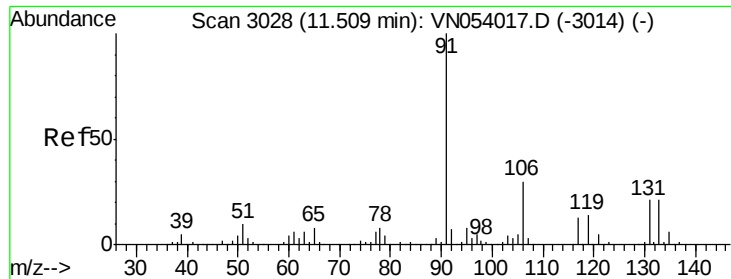
MMDadoda
3/6/2019 10:23:05 AM



#64
Chlorobenzene
Concen: 5.132 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion: 112 Resp: 87776
Ion Ratio Lower Upper
112 100
114 30.5 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 5.403 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

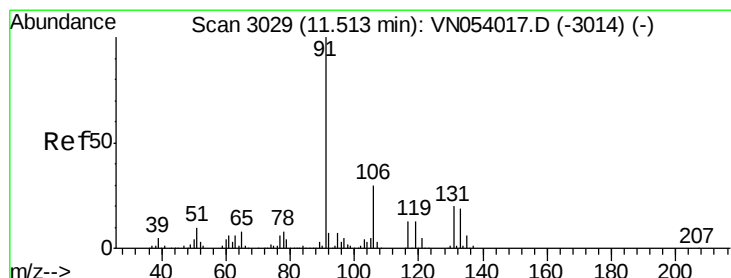
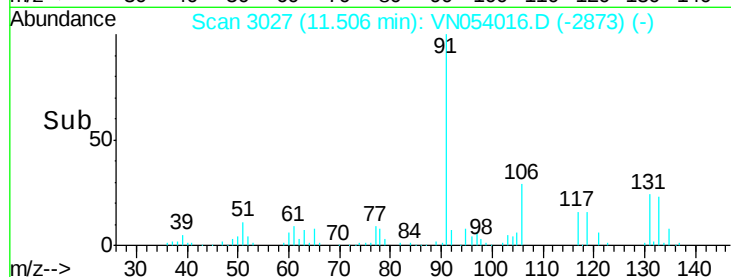
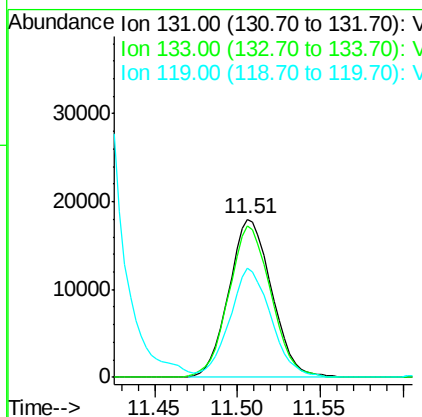
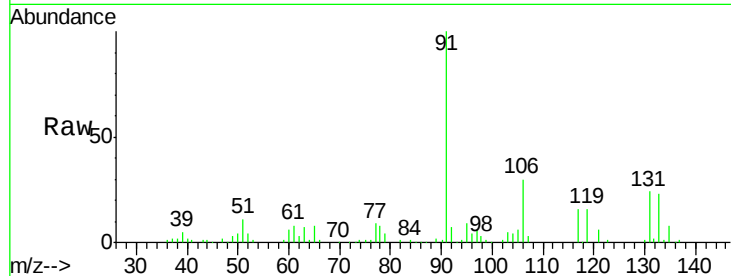
ClientSampled :

VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
131	100	32412		
133	94.5	0.0	193.4	
119	66.8	0.0	133.0	

Manual Integrations
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MMDadoda
3/6/2019 10:23:05 AM



#66

Ethyl Benzene

Concen: 4.726 ug/l

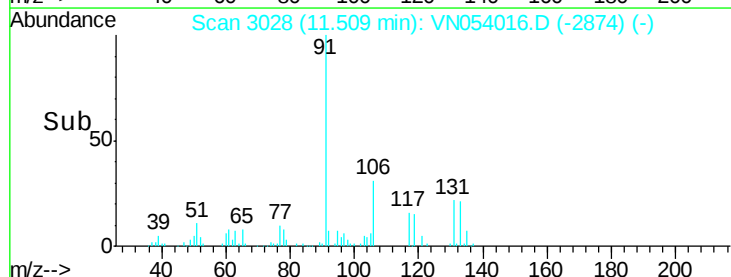
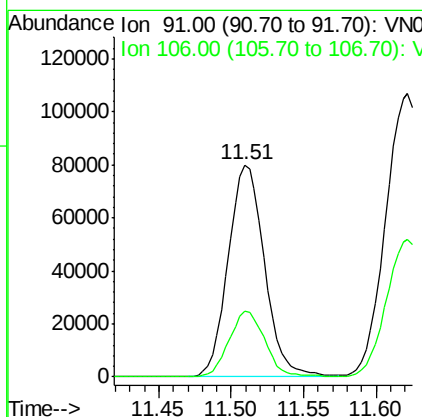
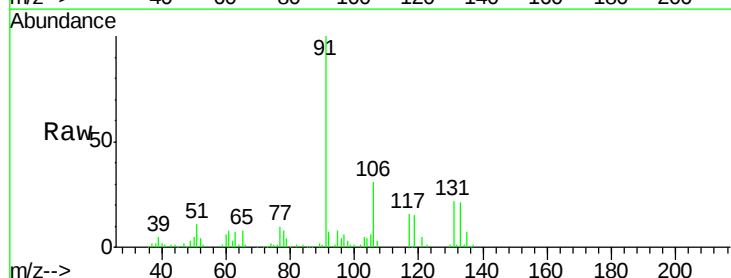
RT: 11.51 min Scan# 3028

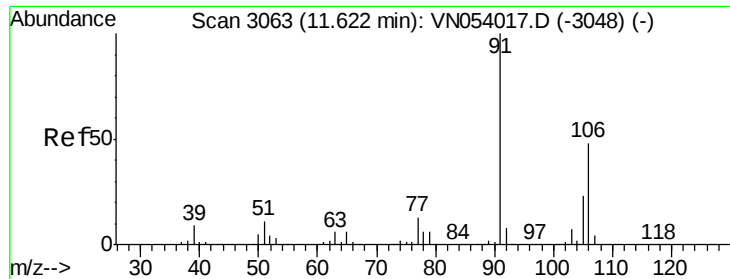
Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	139682		
106	31.1	24.3	36.5	





#67

m/p-Xvlenes

Concen: 9.145 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:106 Resp: 102221

Ion Ratio Lower Upper

106 100

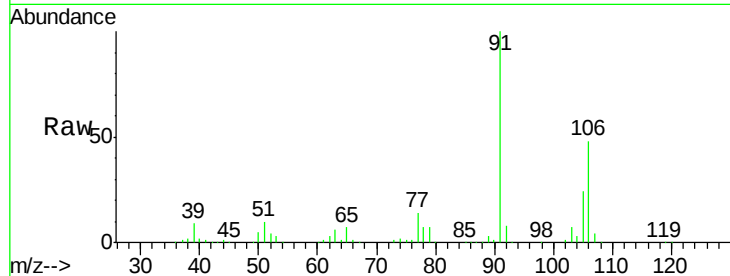
91 207.3 163.9 245.9

Manual Integrations

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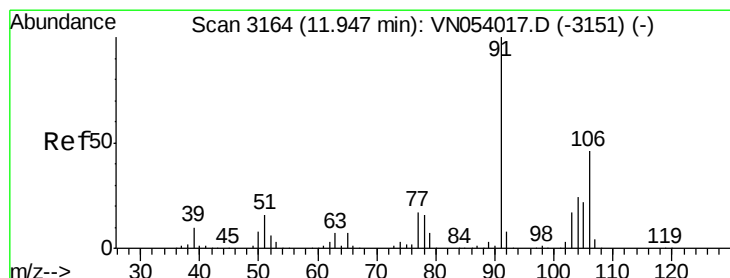
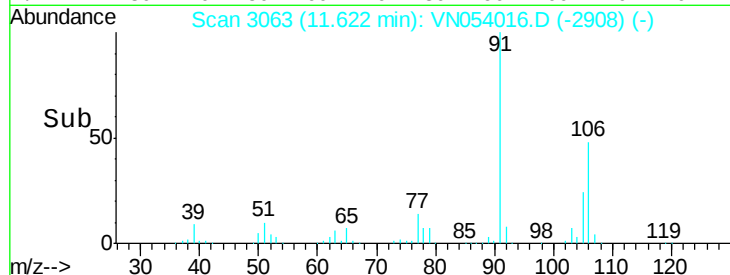
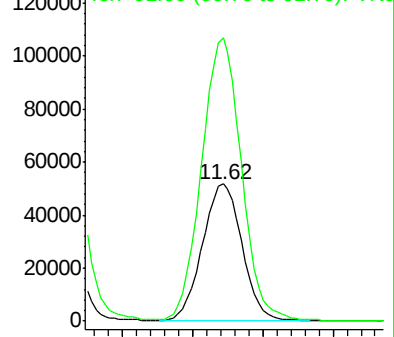
MMDadoda

3/6/2019 10:23:05 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 4.673 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN054016.D

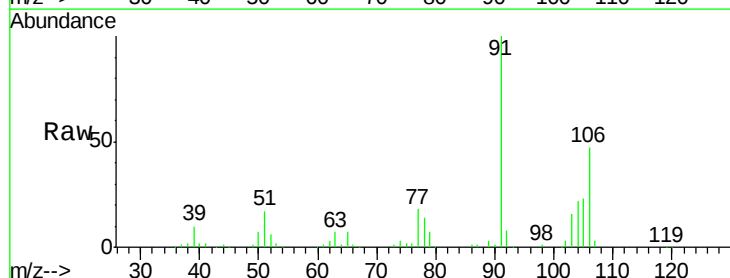
Acq: 1 Mar 2019 8:50

Tgt Ion:106 Resp: 50618

Ion Ratio Lower Upper

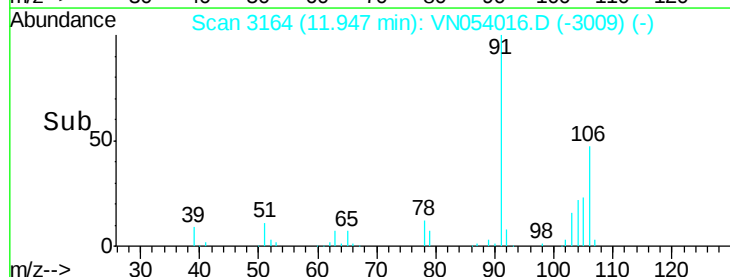
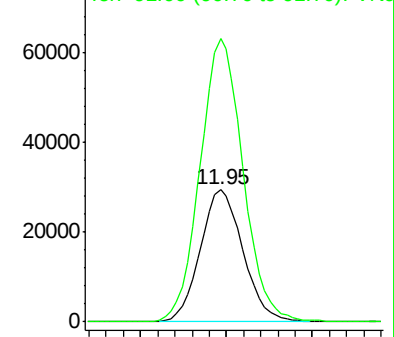
106 100

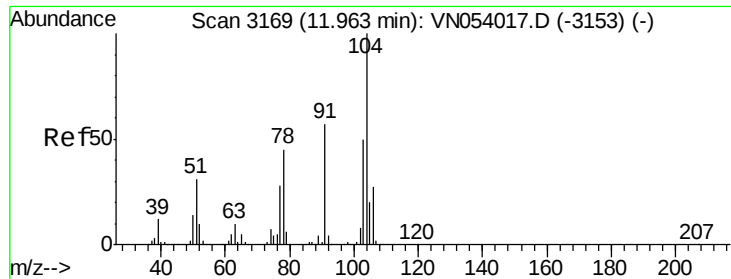
91 216.7 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





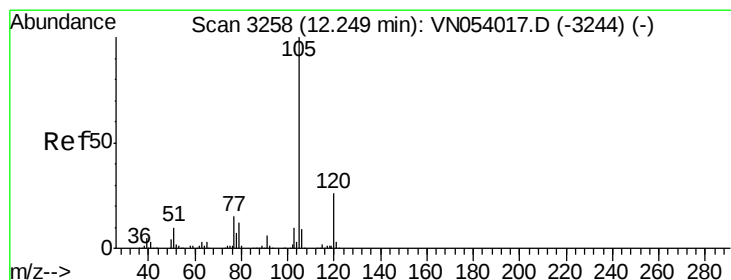
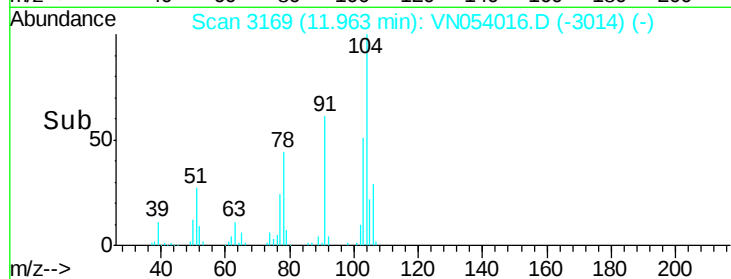
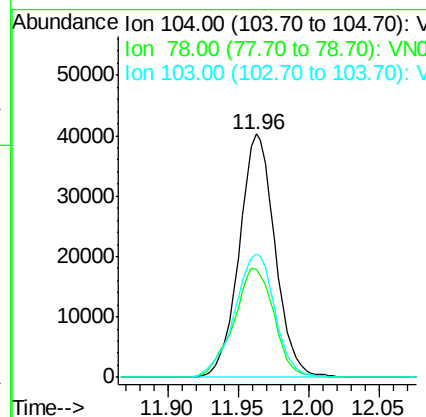
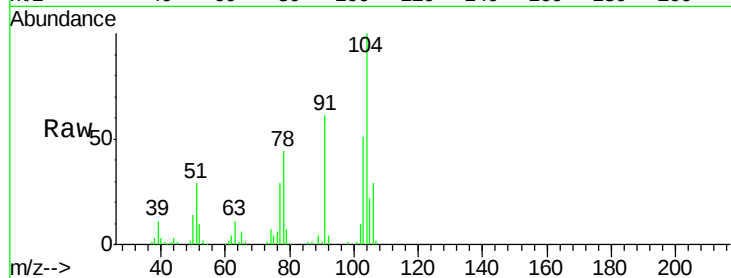
#69
 Stvrene
 Concen: 4.050 ug/l
 RT: 11.96 min Scan# 3169
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.7	39.3	58.9
103	56.9	44.6	66.8

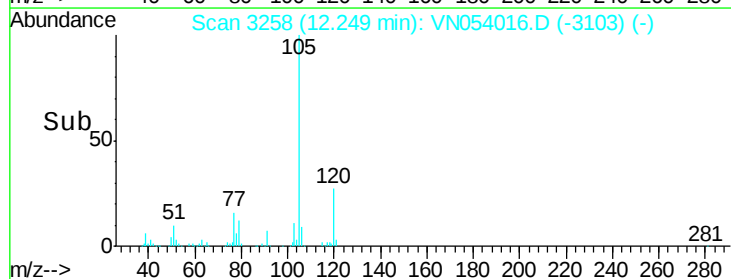
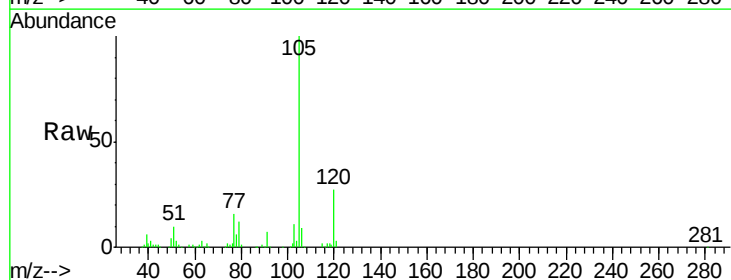
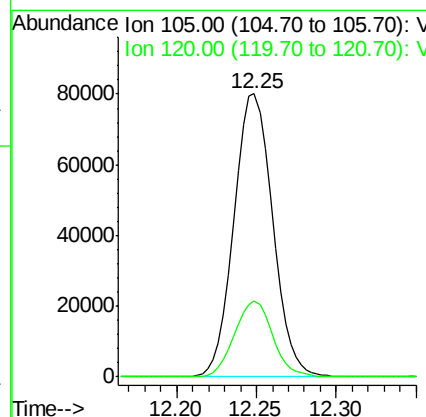
Manual Integrations
 APPROVED

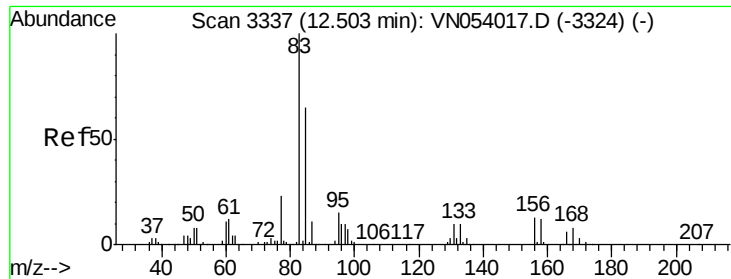
MMDadoda
 3/6/2019 10:23:05 AM



#70
 Isopropylbenzene
 Concen: 4.653 ug/l
 RT: 12.25 min Scan# 3258
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	18.6	34.6





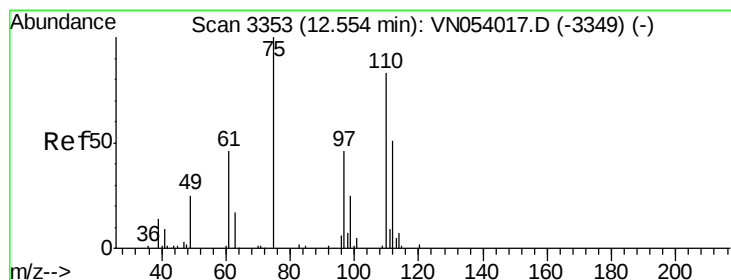
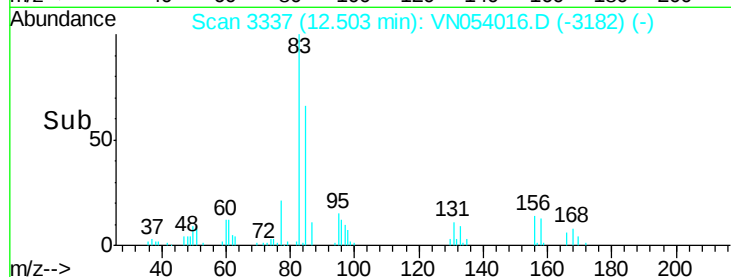
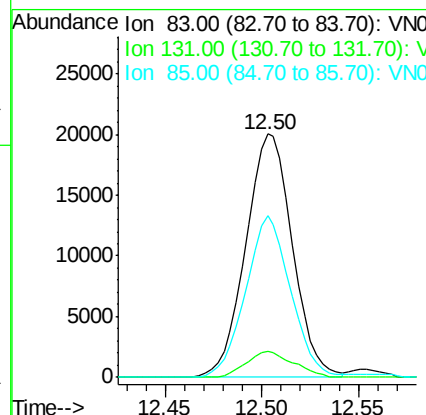
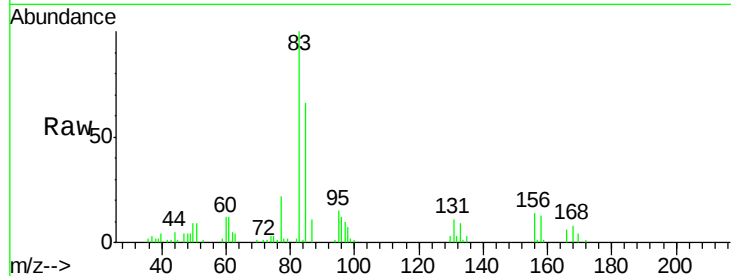
#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.610 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.7	4.9	14.6
85	63.9	32.2	96.6

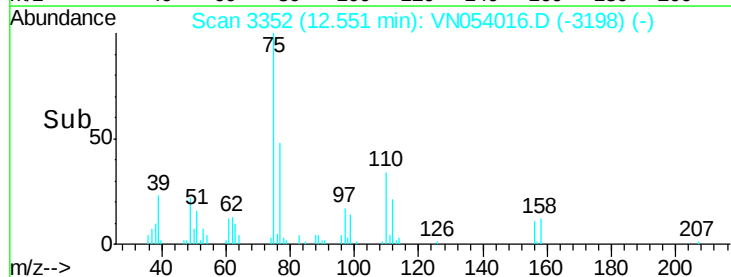
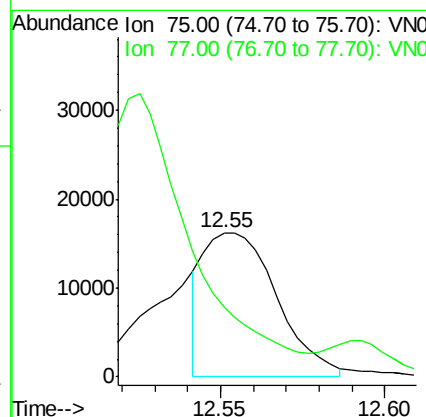
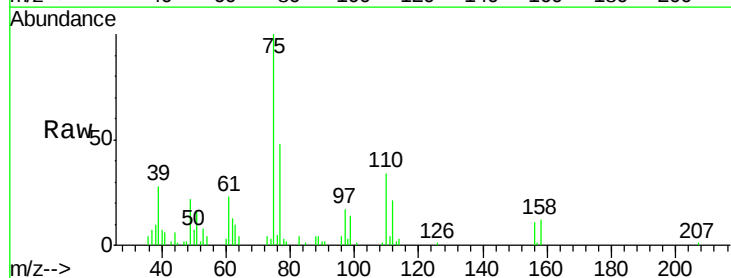
Manual Integrations
 APPROVED

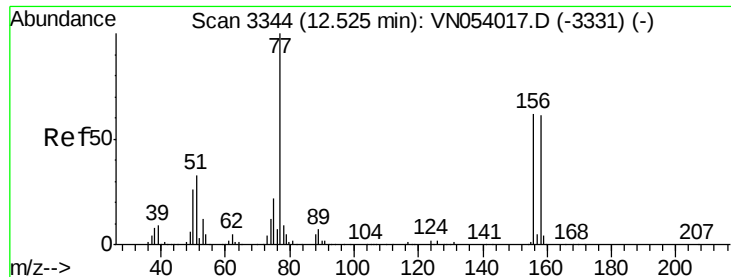
MMDadoda
 3/6/2019 10:23:05 AM



#72
 1,2,3-Trichloropropane
 Concen: 4.810 ug/l m
 RT: 12.55 min Scan# 3352
 Delta R.T. -0.00 min
 Lab File: VN054016.D
 Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
75	100		
77	253.5	0.0	514.8





#73

Bromobenzene

Concen: 4.661 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

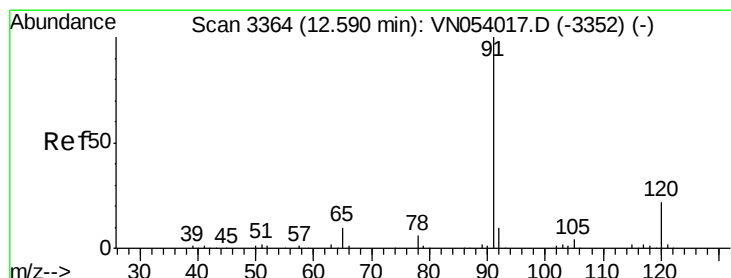
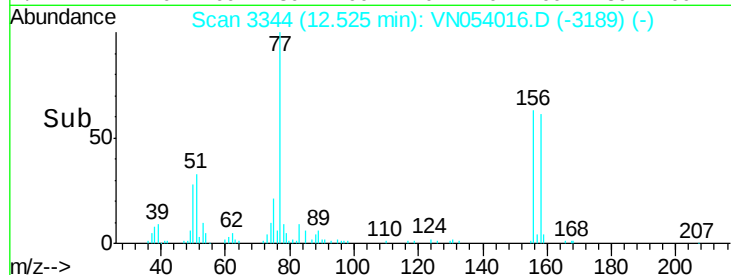
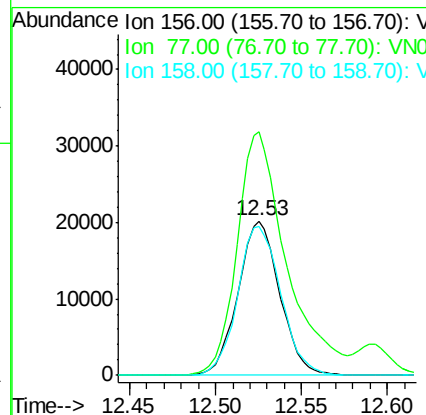
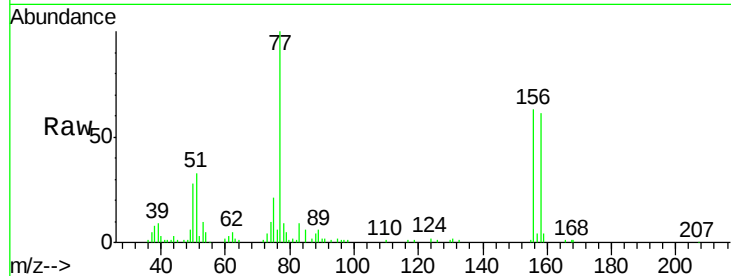
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	187.6	0.0	382.6
158	99.4	0.0	196.8

Manual Integrations
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#74

n-propylbenzene

Concen: 4.785 ug/l

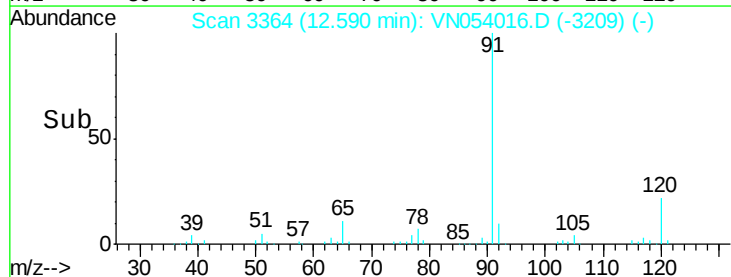
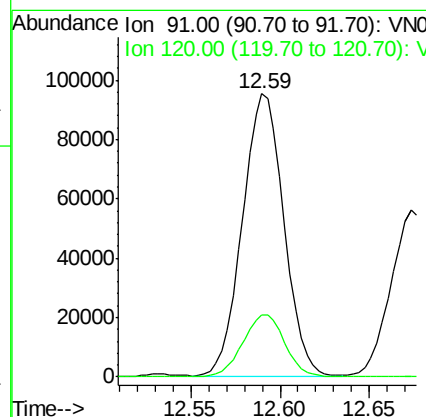
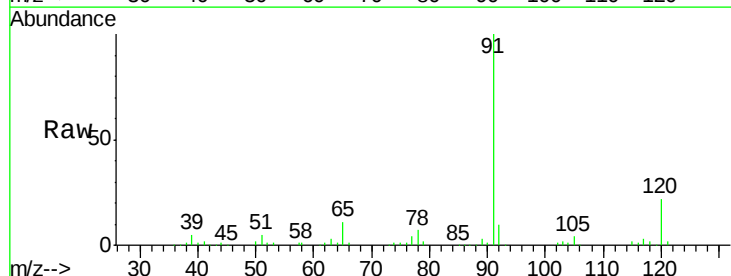
RT: 12.59 min Scan# 3364

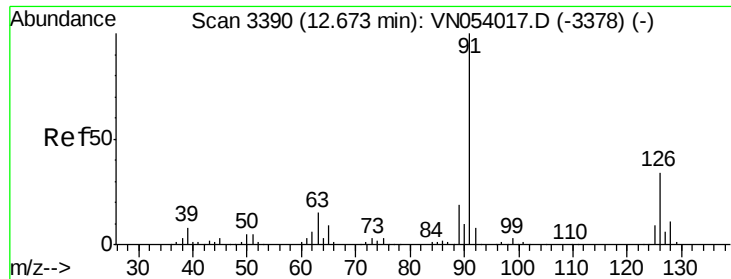
Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	0.0	44.6





#75

2-Chlorotoluene

Concen: 4.914 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 93880

Ion Ratio Lower Upper

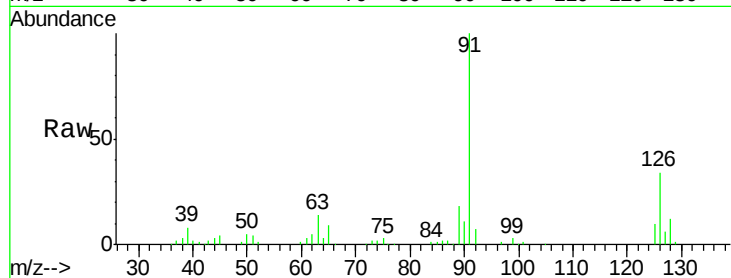
91 100

126 35.1 0.0 68.4

Manual Integrations
APPROVED

MMDadoda

3/6/2019 10:23:05 AM



Abundance Ion 91.00 (90.70 to 91.70): VN054017.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN054017.D (-3378) (-)

80000

60000

40000

20000

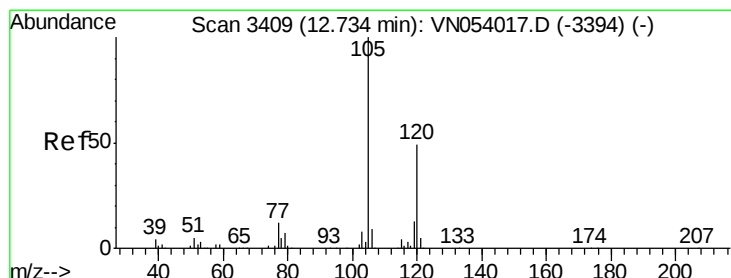
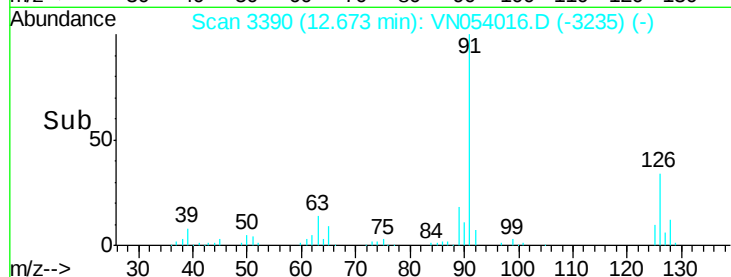
0

12.67

12.65

12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 4.855 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054016.D

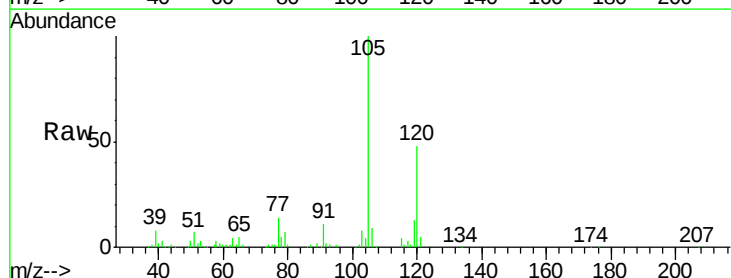
Acq: 1 Mar 2019 8:50

Tgt Ion: 105 Resp: 109758

Ion Ratio Lower Upper

105 100

120 49.1 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN054017.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054017.D (-3394) (-)

80000

60000

40000

20000

0

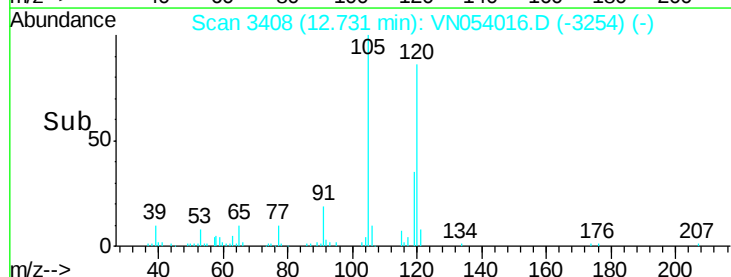
12.73

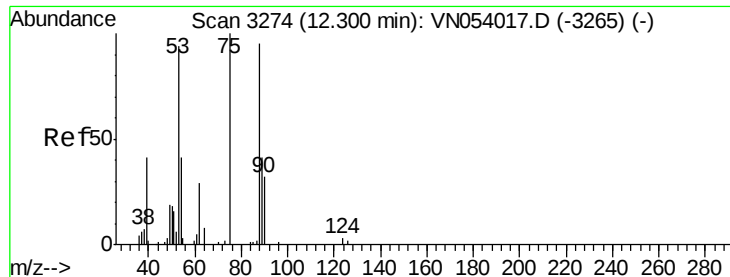
12.70

12.75

12.80

Time-->





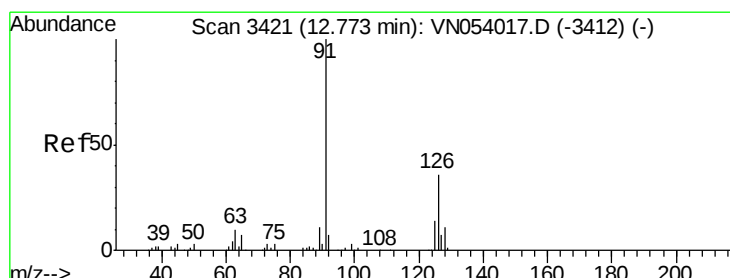
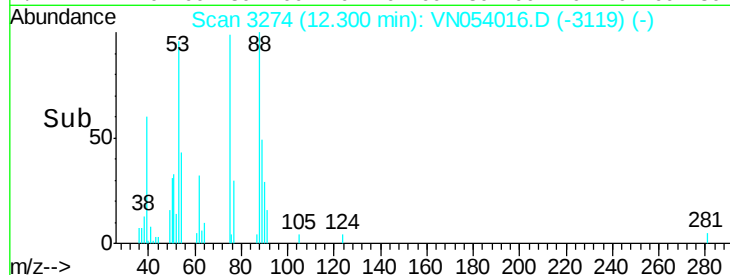
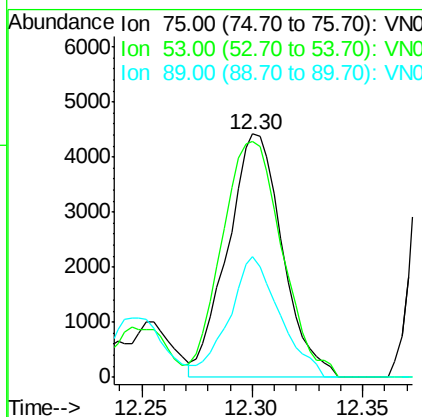
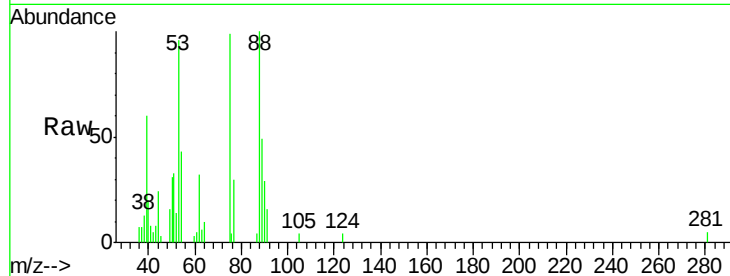
#77
t-1,4-Dichloro-2-butene
Concen: 4.125 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.0	48.5	145.6
89	49.4	21.7	65.1

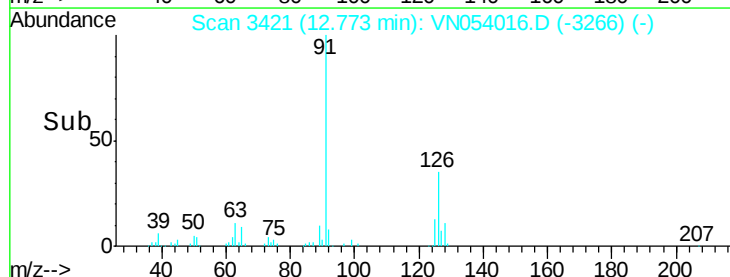
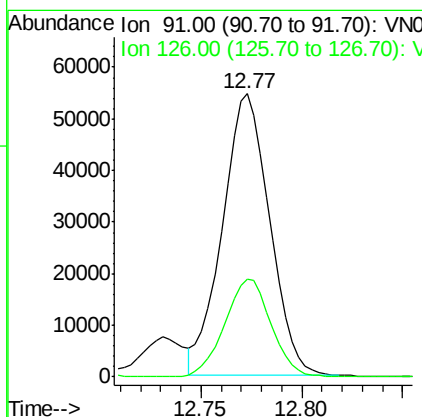
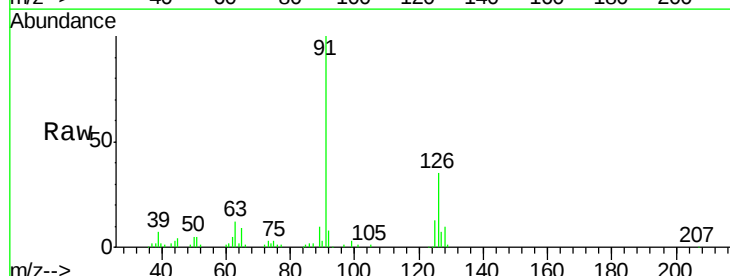
Manual Integrations
APPROVED

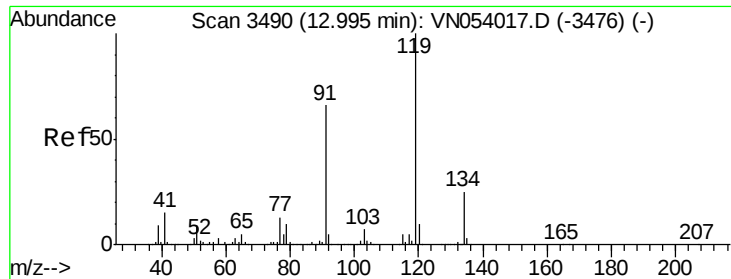
MMDadoda
3/6/2019 10:23:05 AM



#78
4-Chlorotoluene
Concen: 4.602 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.0	0.0	68.2





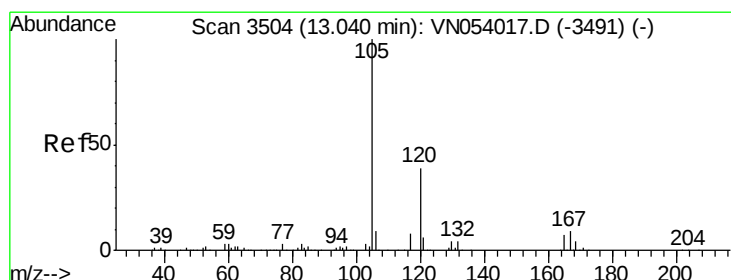
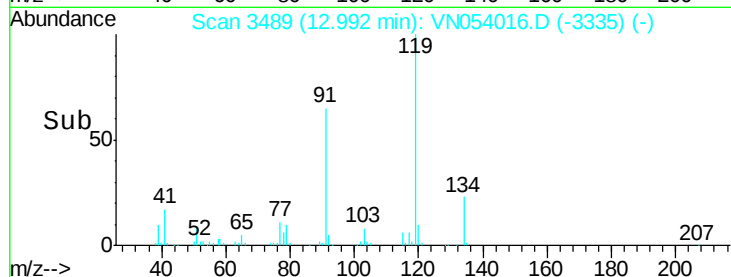
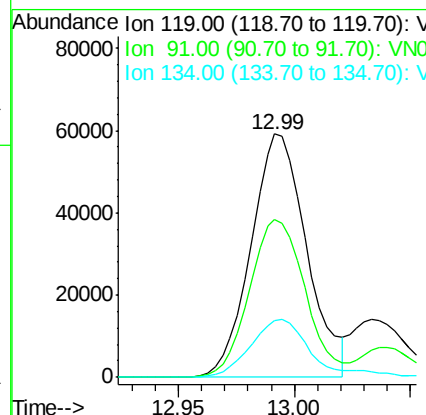
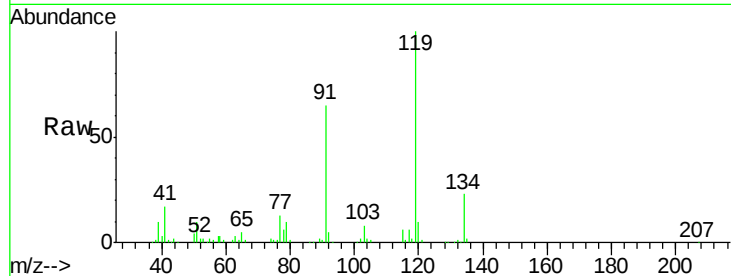
#79
tert-butylbenzene
Concen: 5.019 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
119	100	98950		
91	65.5	0.0	129.8	
134	26.2	0.0	52.2	

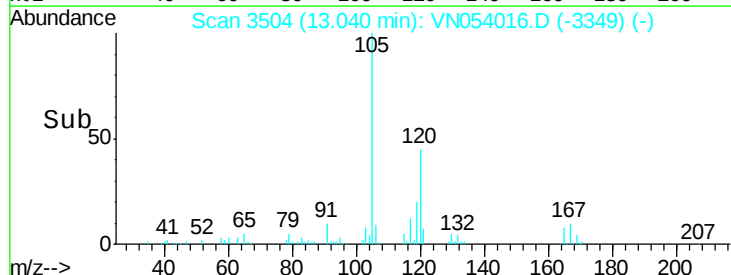
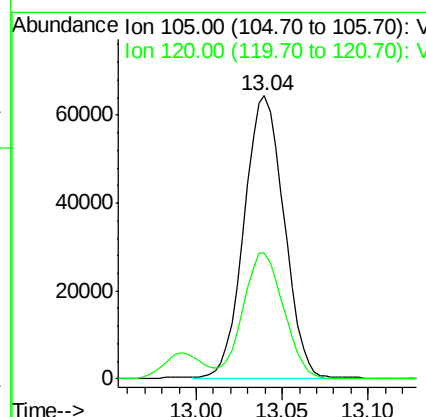
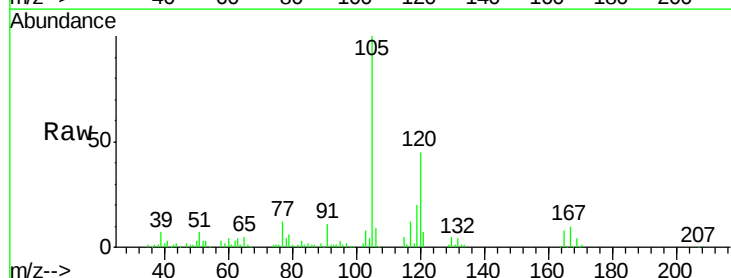
Manual Integrations
APPROVED

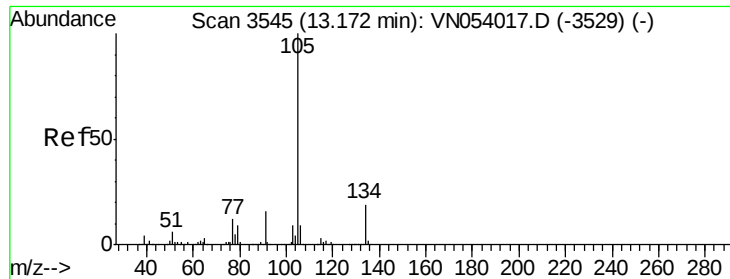
MMDadoda
3/6/2019 10:23:05 AM



#80
1,2,4-Trimethylbenzene
Concen: 4.612 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	104502		
120	45.1	0.0	91.0	





#81

sec-Butylbenzene

Concen: 5.242 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 136862

Ion Ratio Lower Upper

105 100

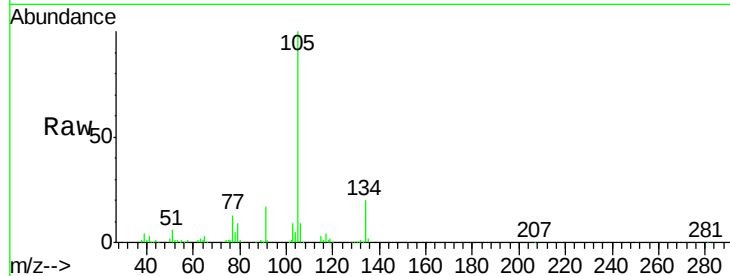
134 19.7 0.0 40.4

Manual Integrations

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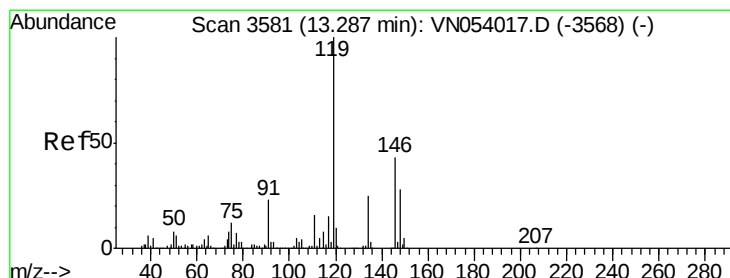
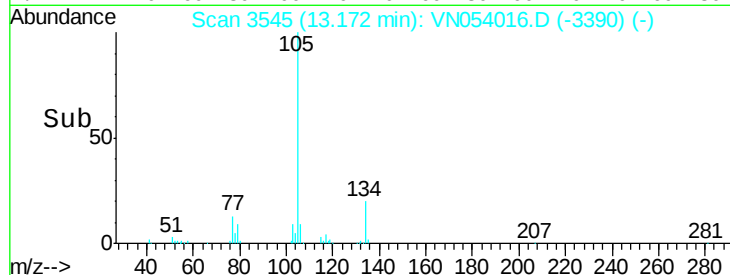
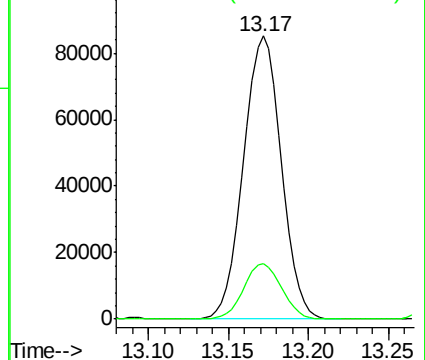
MMDadoda

3/6/2019 10:23:05 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 4.908 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

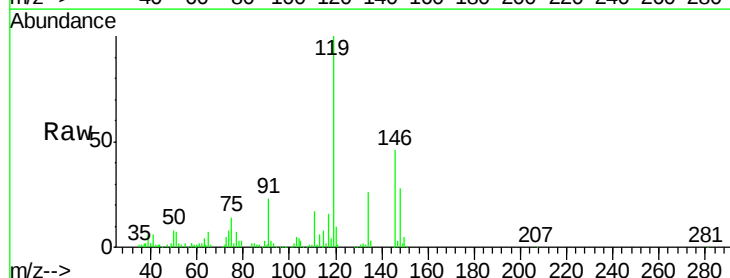
Tgt Ion:119 Resp: 110736

Ion Ratio Lower Upper

119 100

134 26.6 0.0 52.6

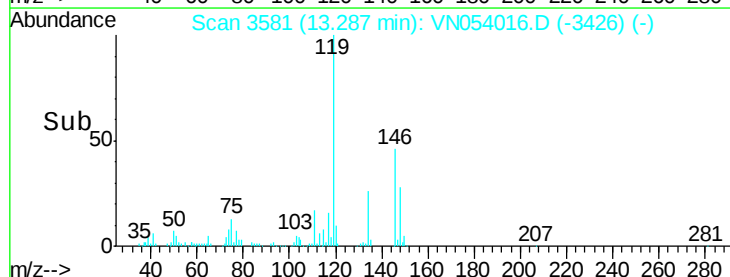
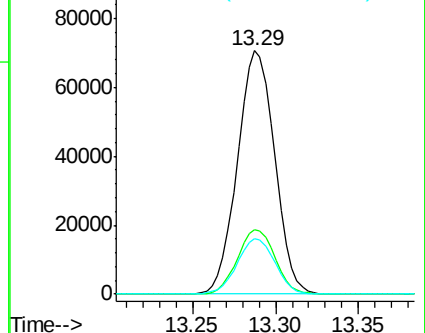
91 23.0 0.0 46.2

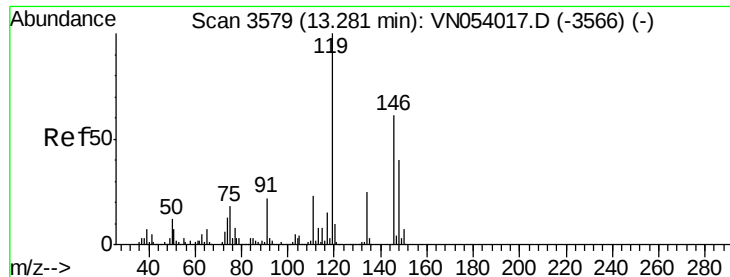


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





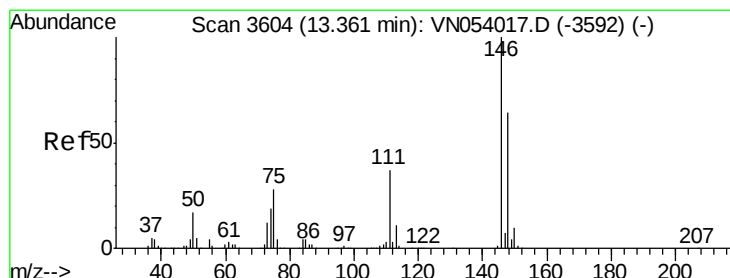
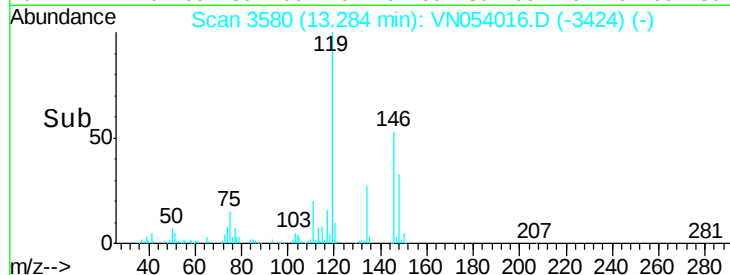
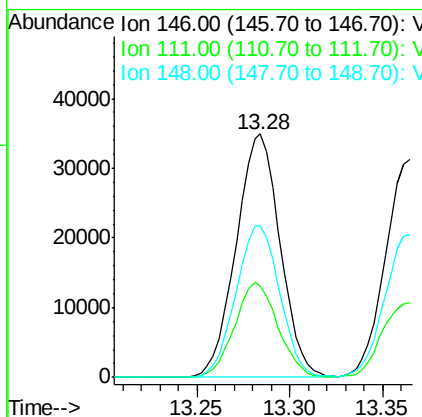
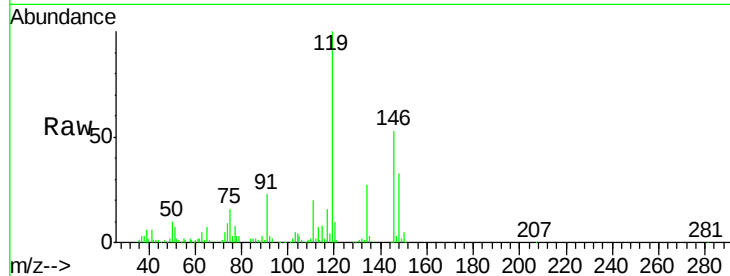
#83
1,3-Dichlorobenzene
Concen: 4.607 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.7	59.0
148	62.3	32.3	96.8

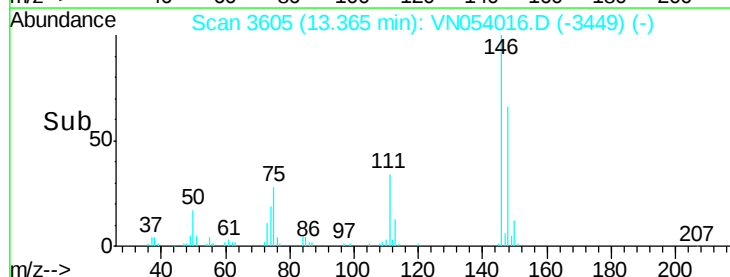
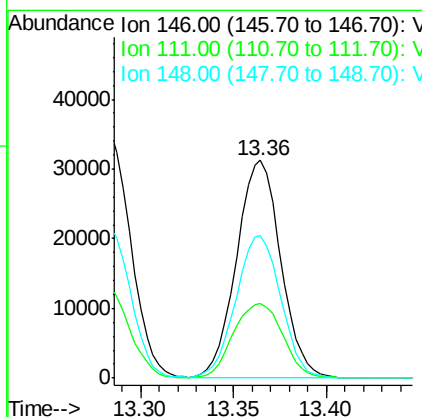
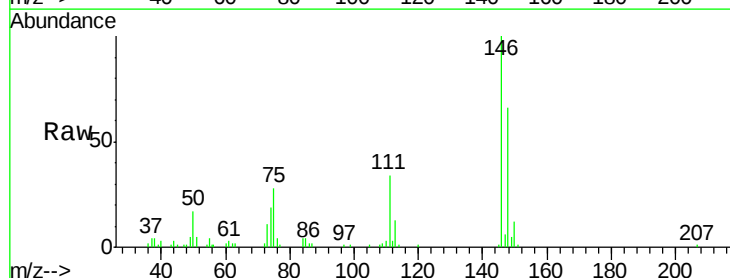
Manual Integrations
APPROVED

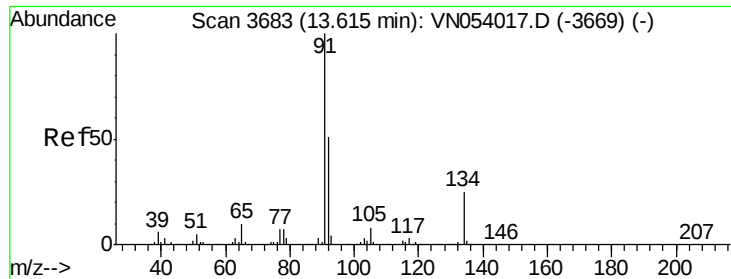
MMDadoda
3/6/2019 10:23:05 AM



#84
1,4-Dichlorobenzene
Concen: 4.273 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. 0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.8	56.3
148	66.3	32.5	97.4





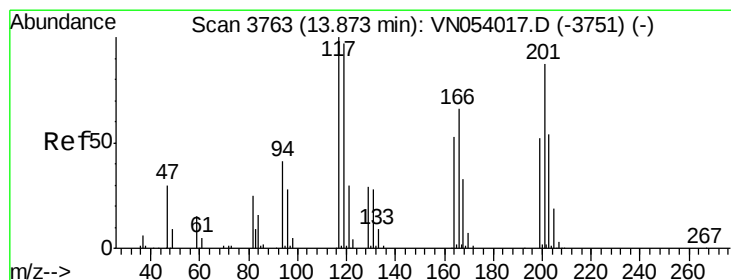
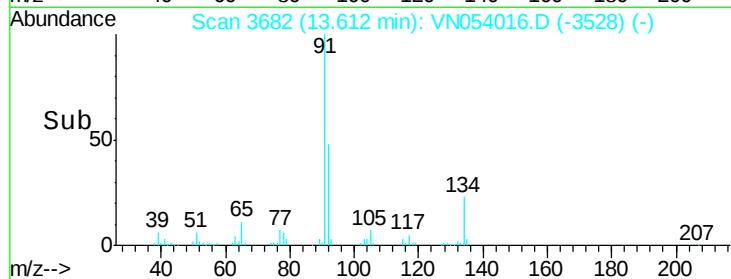
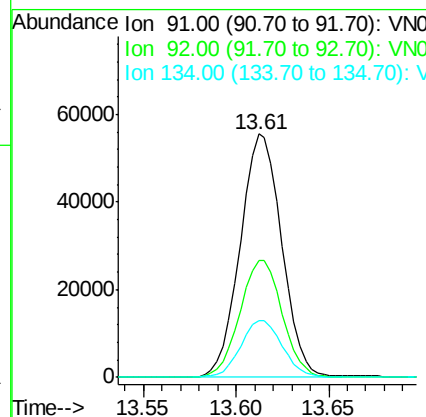
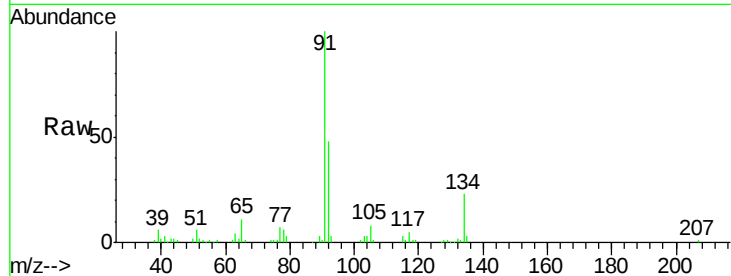
#85
n-Butylbenzene
Concen: 4.719 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	48.9	0.0	104.2
134	23.6	0.0	50.6

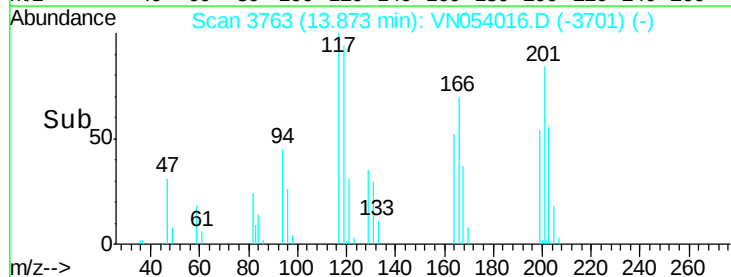
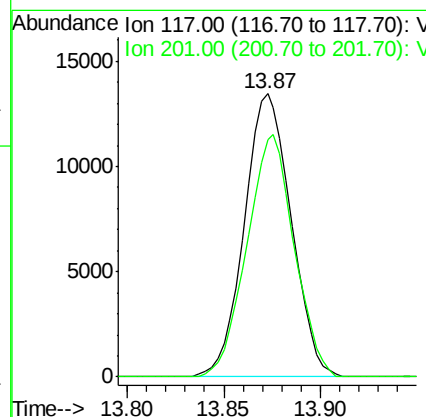
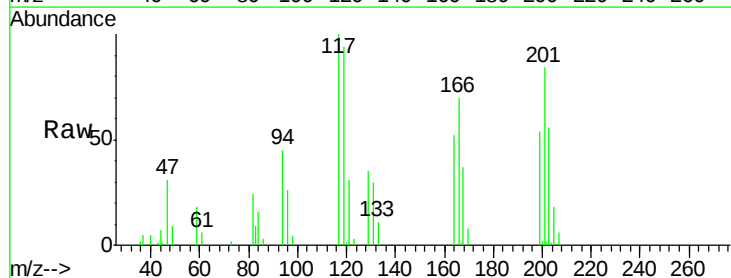
Manual Integrations
APPROVED

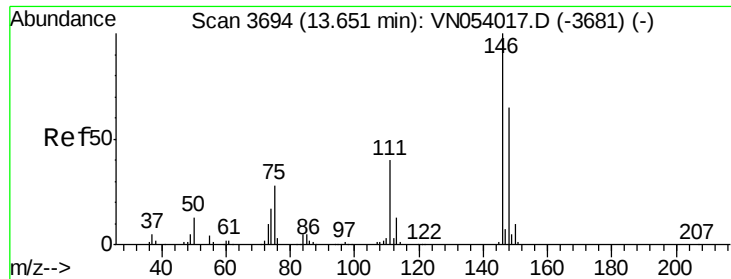
MMDadoda
3/6/2019 10:23:05 AM



#86
Hexachloroethane
Concen: 6.285 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.2	43.8	131.3





#87

1,2-Dichlorobenzene

Concen: 4.952 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

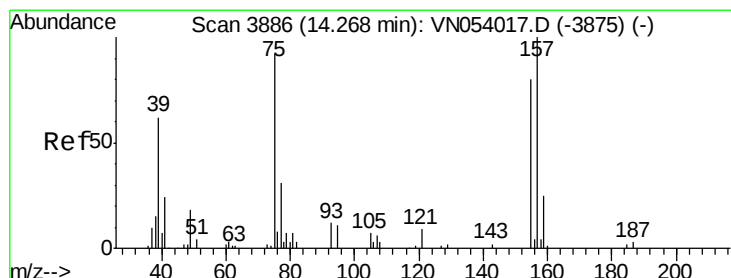
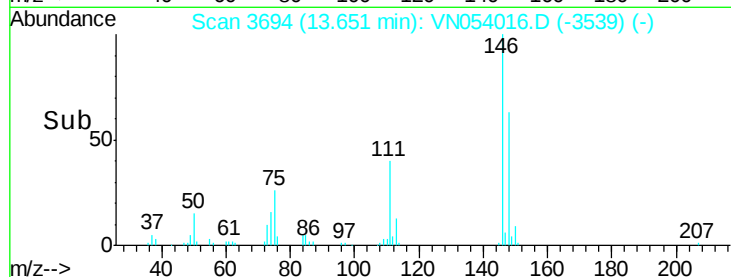
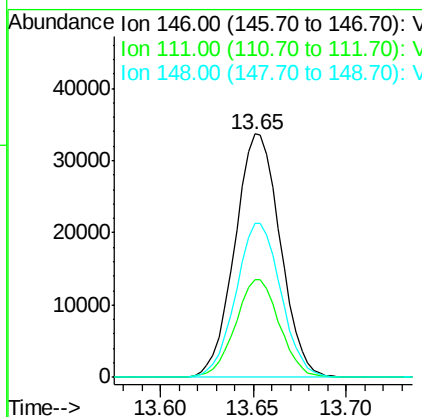
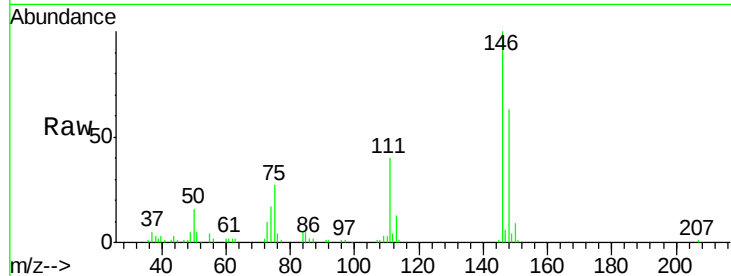
ClientSampled :

VSTDIC005

Tot Ion:	146	Resp:	57389
Ion Ratio	Lower	Upper	
146	100		
111	39.1	20.3	60.8
148	62.7	32.1	96.5

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#88

1,2-Dibromo-3-Chloropropane

Concen: 5.277 ug/l

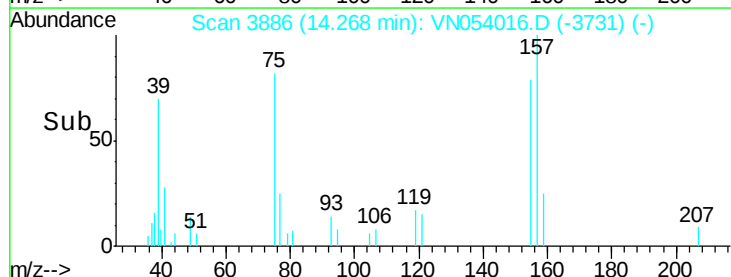
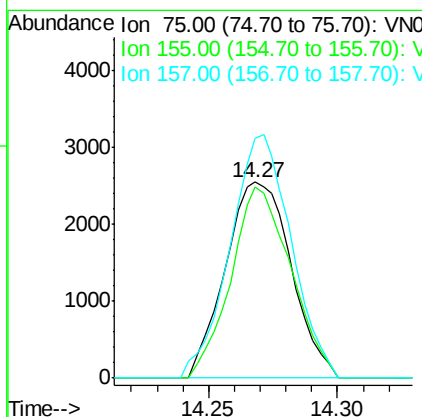
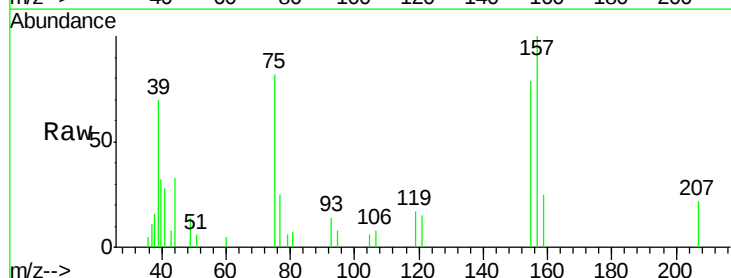
RT: 14.27 min Scan# 3886

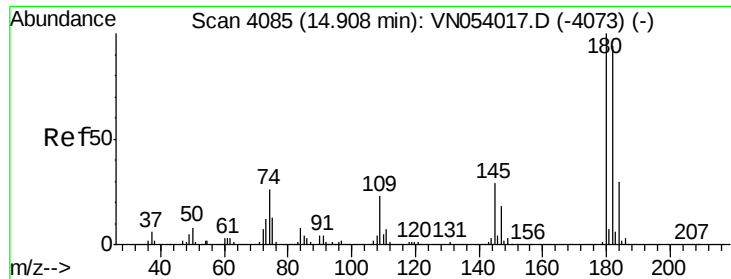
Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Tgt Ion:	75	Resp:	4527
Ion Ratio	Lower	Upper	
75	100		
155	88.9	72.2	108.2
157	115.6	94.2	141.2





#89

1,2,4-Trichlorobenzene

Concen: 3.449 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Instrument :

MSVOA_N

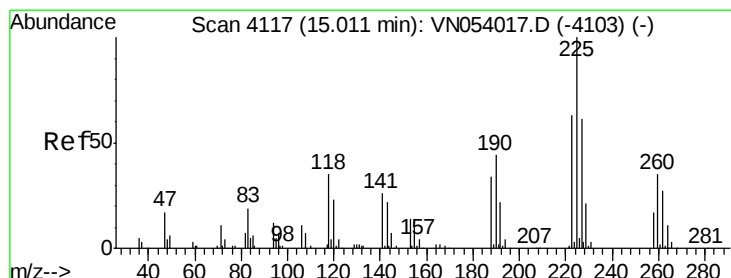
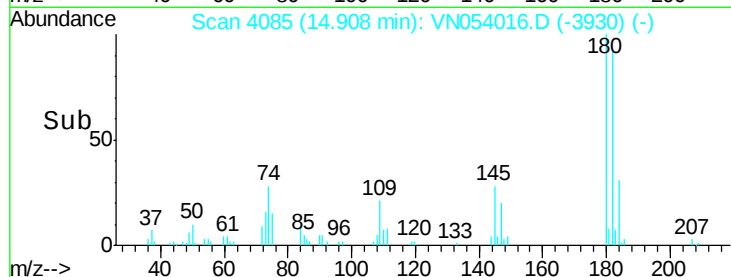
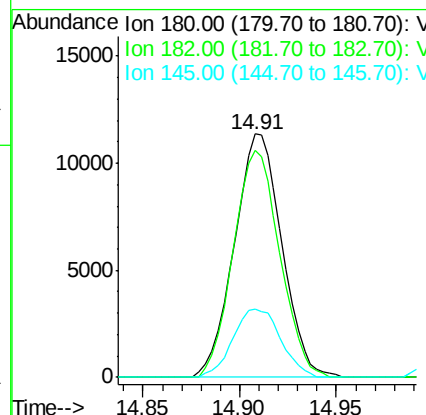
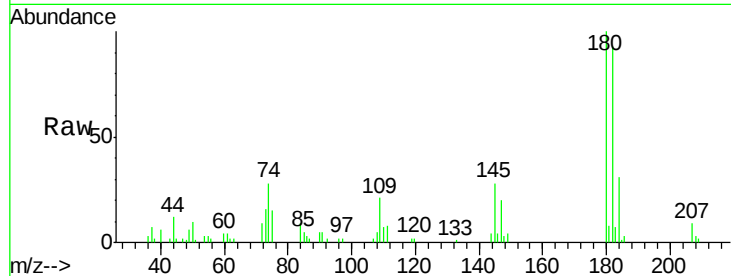
ClientSampled :

VSTDIC005

Tot Ion:	180	Resp:	19399
Ion Ratio	Lower	Upper	
180	100		
182	91.0	76.6	114.8
145	28.2	23.6	35.4

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#90

Hexachlorobutadiene

Concen: 7.083 ug/l

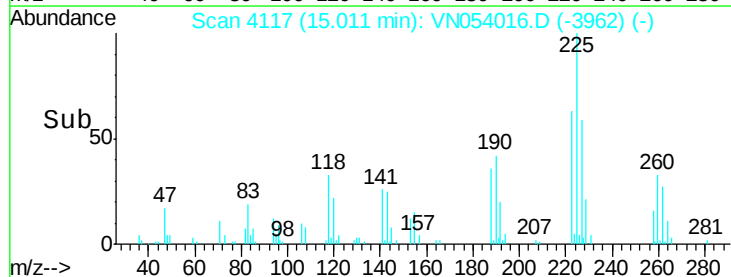
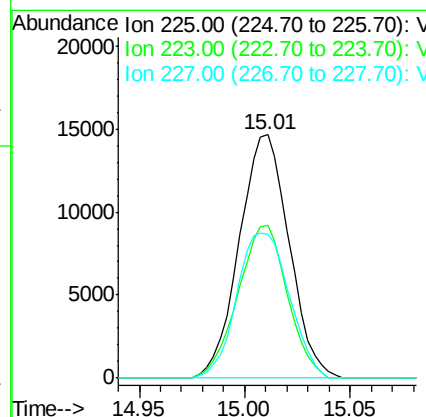
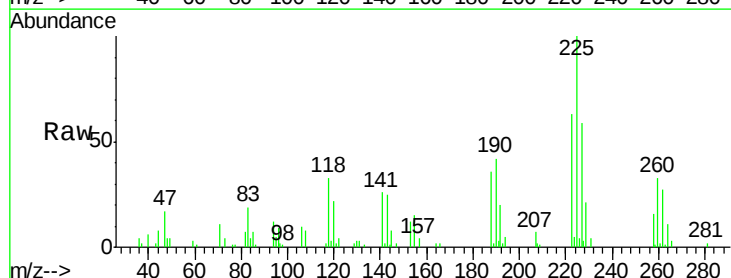
RT: 15.01 min Scan# 4117

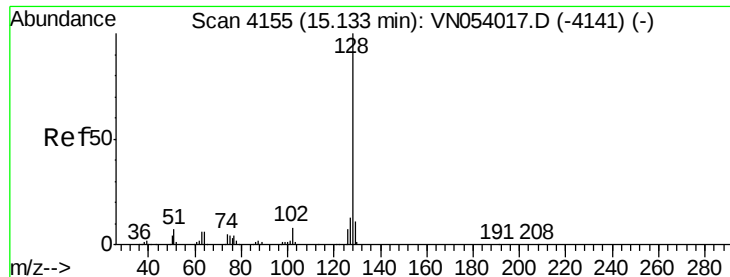
Delta R.T. -0.00 min

Lab File: VN054016.D

Acq: 1 Mar 2019 8:50

Tgt Ion:	225	Resp:	24119
Ion Ratio	Lower	Upper	
225	100		
223	62.2	0.0	125.6
227	62.8	0.0	127.8





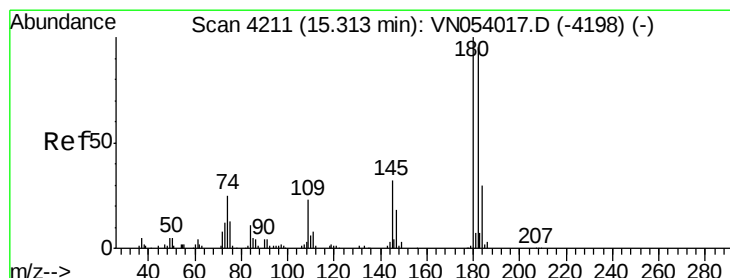
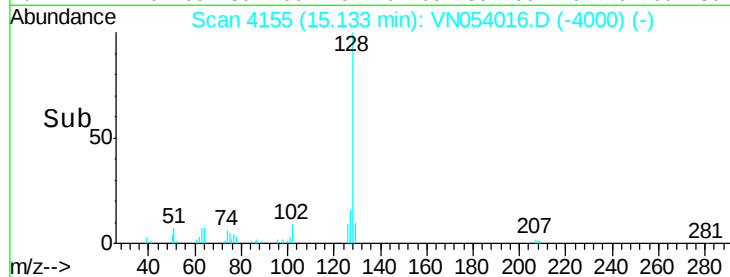
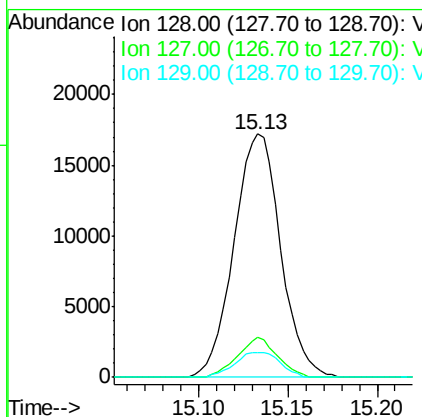
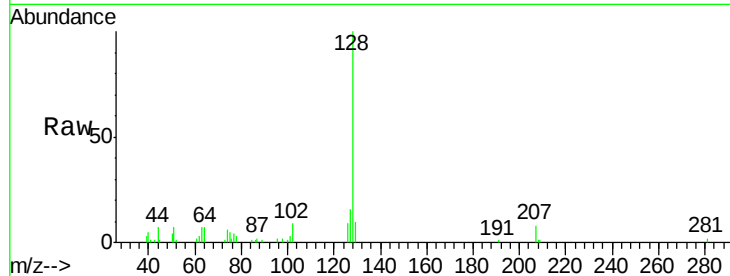
#91
Naphthalene
Concen: 2.622 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	128	Resp:	31293
Ion Ratio	Lower	Upper	
128	100		
127	13.9	9.9	14.9
129	10.0	8.5	12.7

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#92
1,2,3-Trichlorobenzene
Concen: 4.235 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054016.D
Acq: 1 Mar 2019 8:50

Tgt Ion:	180	Resp:	21255
Ion Ratio	Lower	Upper	
180	100		
182	91.6	0.0	196.2
145	29.8	0.0	62.2

