

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056678.D
 Acq On : 12 Jul 2019 10:08
 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
 7/16/2019 9:57:38 AM

Quant Time: Jul 12 23:49:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55431	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	303198	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	257531	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	114625	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	12.40	95	106494	26.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.33%
63) Toluene-d8	10.09	98	370393	31.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	12633	4.383 ug/l	96
3) Chloromethane	2.06	50	18797	4.569 ug/l	99
4) Vinyl Chloride	2.18	62	18678	4.772 ug/l	97
5) Bromomethane	2.57	94	13002	6.121 ug/l	93
6) Chloroethane	2.70	64	11543	5.310 ug/l	96
7) Trichlorofluoromethane	3.01	101	24601	4.907 ug/l	94
8) Diethyl Ether	3.41	74	10078	4.802 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	16114	5.086 ug/l	63
10) 1,1-Dichloroethene	3.73	96	15361	4.975 ug/l	97
11) Methyl Iodide	3.95	142	16687	3.802 ug/l	98
12) Methyl Acetate	4.33	43	24537	5.929 ug/l	95
13) Acrolein	3.61	56	9322	24.706 ug/l	96
14) Acrylonitrile	4.99	53	44092	24.198 ug/l #	89
15) Acetone	3.82	58	14512	26.047 ug/l	96
16) Carbon Disulfide	4.05	76	36709	4.825 ug/l	98
17) Allyl chloride	4.32	41	25644	4.736 ug/l	96
18) Methylene Chloride	4.55	84	18409	5.036 ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	16547	4.936 ug/l	91
20) Diisopropyl ether	5.95	45	53742	4.843 ug/l	98
21) 1,1-Dichloroethane	5.85	63	30624	4.883 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	19695	5.003 ug/l	97
23) tert-Butyl Alcohol	4.79	59	15101	22.102 ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	48792	4.802 ug/l #	84
25) Chloroform	7.37	83	31113	5.051 ug/l	97
26) Cyclohexane	7.65	56	27339	4.697 ug/l #	100
29) 1,1-Dichloropropene	7.79	75	22259	4.832 ug/l	99
30) 2-Butanone	6.84	43	62669	24.168 ug/l	99
31) 2,2-Dichloropropane	6.82	77	21604m	4.875 ug/l	
32) 1,1,1-Trichloroethane	7.57	97	24341	4.973 ug/l	99
33) Carbon Tetrachloride	7.77	117	19852	4.751 ug/l	93
34) Benzene	8.04	78	71560	4.989 ug/l #	71
35) Methacrylonitrile	7.18	41	11283m	5.283 ug/l	
36) 1,2-Dichloroethane	8.12	62	23874	5.132 ug/l	100
37) Trichloroethene	8.83	130	18956	5.016 ug/l	98
38) Methylcyclohexane	9.08	83	27671	4.782 ug/l	98
39) 1,2-Dichloropropane	9.12	63	19459	5.054 ug/l	100
40) Dibromomethane	9.21	93	11952	4.996 ug/l	97

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 ALS Vial : 2 Sample Multiplier: 1

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 MSVOA_N
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 VSTDIC005

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

41) Bromodichloromethane	9.40	83	21556	4.845	ug/l	93
42) Vinyl Acetate	5.90	43	199311	22.042	ug/l	99
43) Ethyl Acetate	6.93	43	21952	4.479	ug/l	96
44) Isopropyl Acetate	8.16	43	34958	4.586	ug/l	90
45) 1,4-Dioxane	9.20	88	5579	73.687	ug/l #	89
46) Methyl methacrylate	9.20	41	17357	4.627	ug/l	96
47) n-amyl Acetate	12.07	43	24055	3.809	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	20833	4.360	ug/l	95
49) cis-1,3-Dichloropropene	9.84	75	24471	4.455	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	17857	5.086	ug/l	98
51) Ethyl methacrylate	10.43	69	24405	4.443	ug/l	97
52) 1,3-Dichloropropane	10.71	76	29304	4.891	ug/l	95
53) Dibromochloromethane	10.90	129	15962	4.605	ug/l	99
54) 1,2-Dibromoethane	11.00	107	17869	4.876	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	57165	20.607	ug/l	99
56) Bromoform	12.12	173	10994	4.332	ug/l #	98
58) 4-Methyl-2-Pentanone	9.98	43	120002	25.524	ug/l	99
59) 2-Hexanone	10.75	43	83485	23.607	ug/l	98
61) Tetrachloroethene	10.63	164	18681	5.556	ug/l	95
62) Toluene	10.15	91	77221	5.271	ug/l	96
64) Chlorobenzene	11.43	112	44871	5.077	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	16139	5.033	ug/l	98
66) Ethyl Benzene	11.51	91	77213	4.855	ug/l	99
67) m/p-Xylenes	11.62	106	55992	9.484	ug/l	99
68) o-Xylene	11.95	106	27988	4.831	ug/l	99
69) Styrene	11.96	104	42160	4.378	ug/l	99
70) Isopropylbenzene	12.25	105	75680	4.988	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	25512	5.114	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	22811m	5.450	ug/l	
73) Bromobenzene	12.52	156	18436	4.706	ug/l	100
74) n-propylbenzene	12.59	91	76672	4.432	ug/l	99
75) 2-Chlorotoluene	12.67	91	49145	4.765	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	61037	4.722	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	4820	3.541	ug/l	87
78) 4-Chlorotoluene	12.77	91	42947	4.290	ug/l	99
79) tert-butylbenzene	12.99	119	53899	4.897	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	58806	4.605	ug/l	100
81) sec-Butylbenzene	13.17	105	67936	4.649	ug/l	99
82) p-Isopropyltoluene	13.29	119	59768	4.528	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	26860	4.114	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	25008	3.980	ug/l	99
85) n-Butylbenzene	13.61	91	41469	3.754	ug/l	98
86) Hexachloroethane	13.87	117	8947	4.456	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	29676	4.511	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3981	4.479	ug/l	85
89) 1,2,4-Trichlorobenzene	14.91	180	9862m	2.719	ug/l	
90) Hexachlorobutadiene	15.01	225	11493	5.019	ug/l	98
91) Naphthalene	15.13	128	27496	2.754	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	13392	3.527	ug/l	98

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MSVOA_N
ClientSampleId :
VSTDICC005

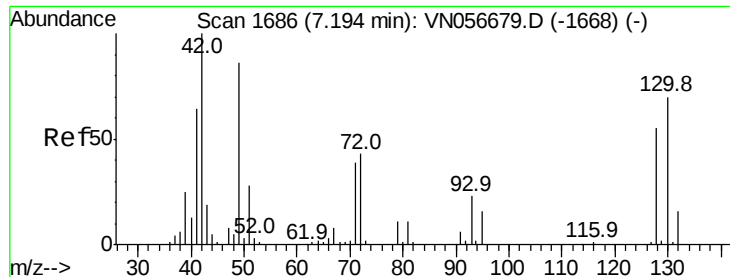
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:128 Resp: 55431

Ion Ratio Lower Upper

128 100

49 156.9 0.0 390.5

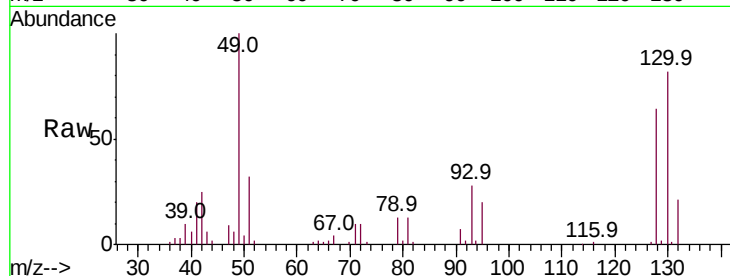
130 128.0 0.0 316.5

Manual Integrations

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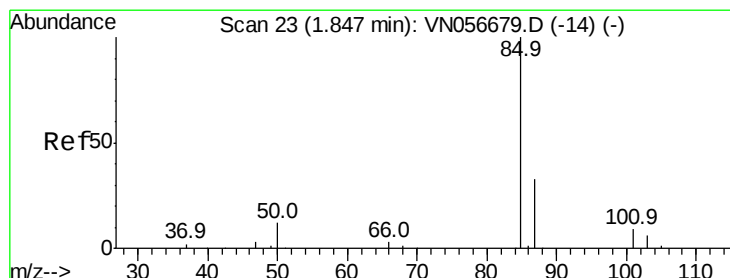
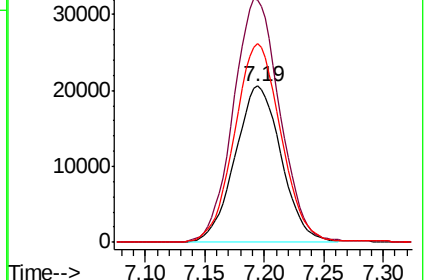
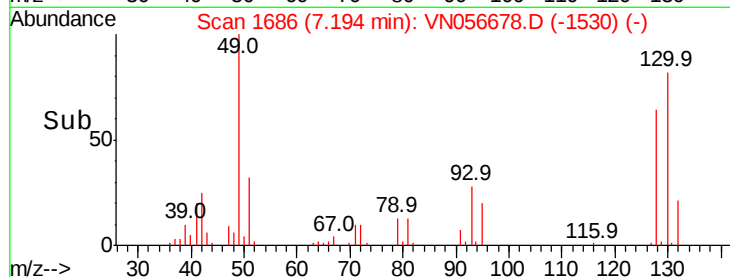
7/16/2019 9:57:38 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 4.383 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN056678.D

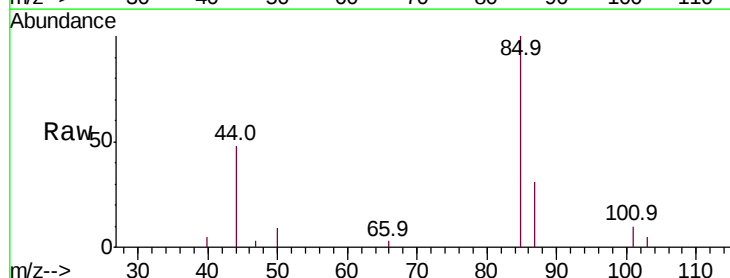
Acq: 12 Jul 2019 10:08

Tgt Ion: 85 Resp: 12633

Ion Ratio Lower Upper

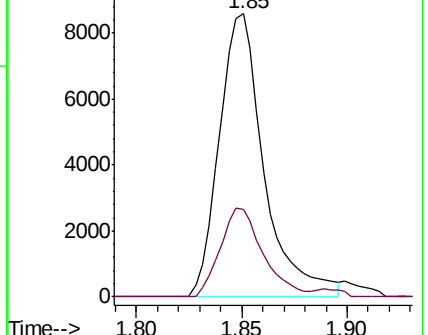
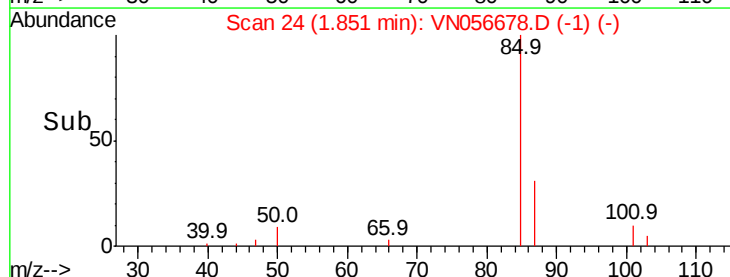
85 100

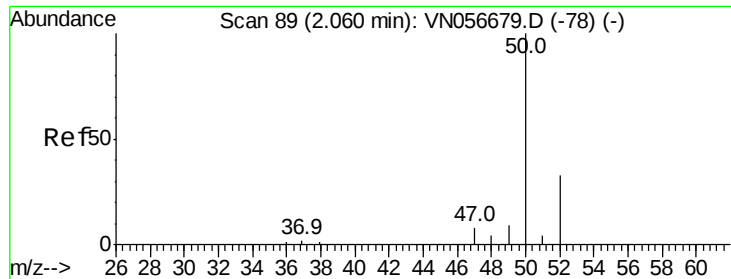
87 31.1 16.8 50.3



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 4.569 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 50 Resp: 18797

Ion Ratio Lower Upper

50 100

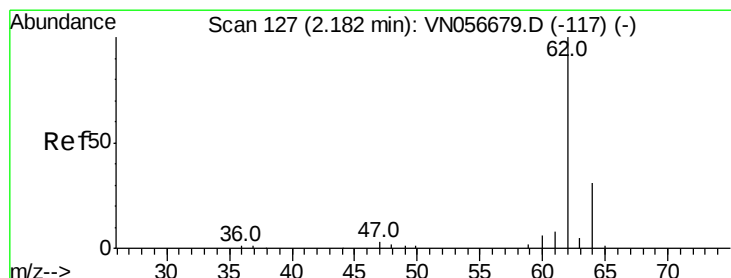
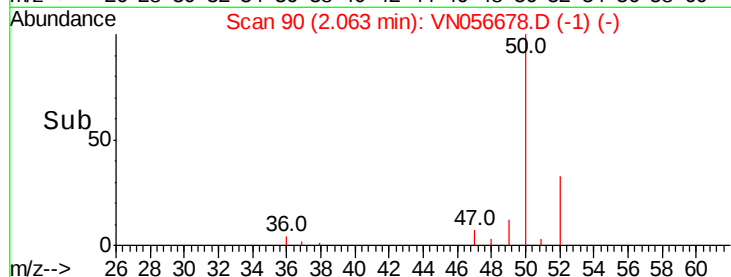
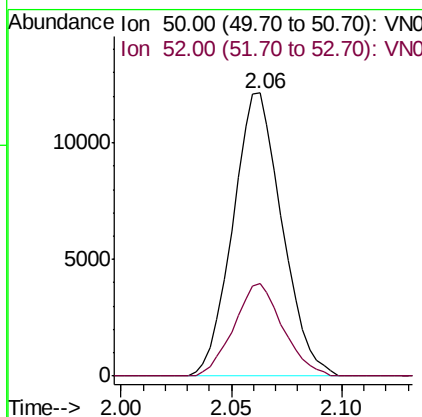
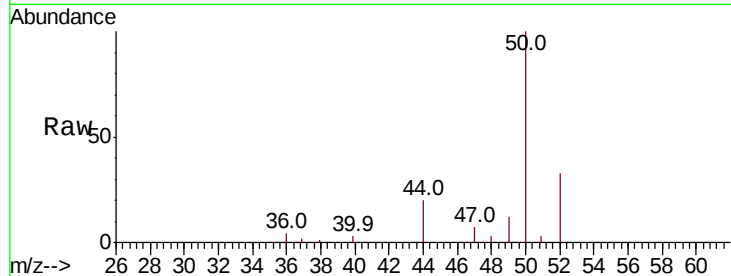
52 32.7 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.772 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN056678.D

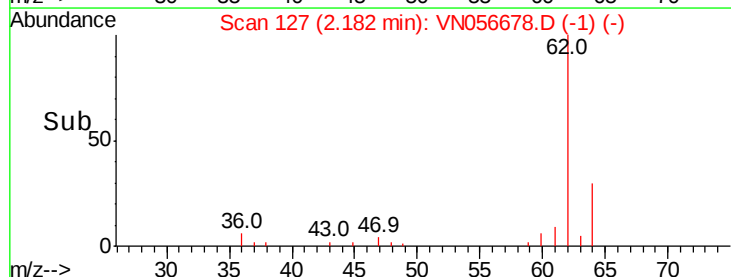
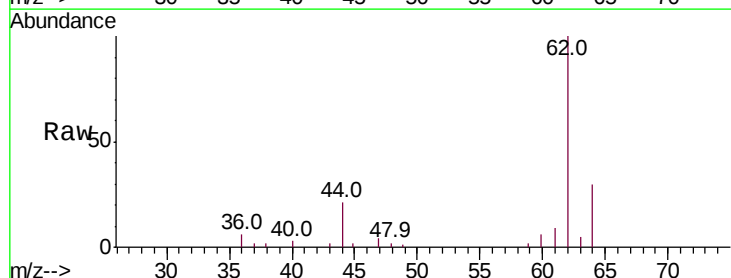
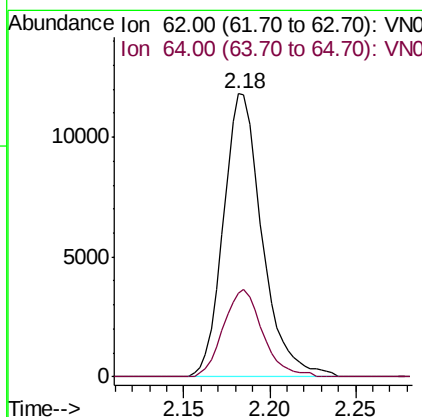
Acq: 12 Jul 2019 10:08

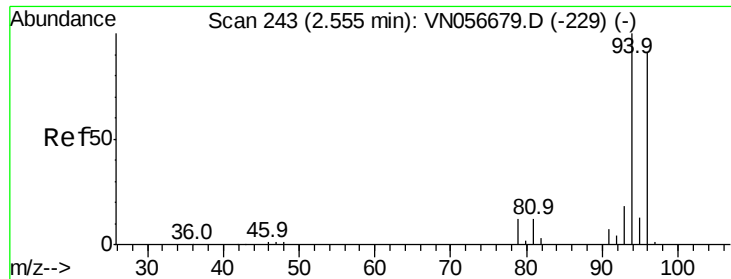
Tgt Ion: 62 Resp: 18678

Ion Ratio Lower Upper

62 100

64 29.6 25.0 37.4





#5

Bromomethane

Concen: 6.121 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 13002

Ion Ratio Lower Upper

94 100

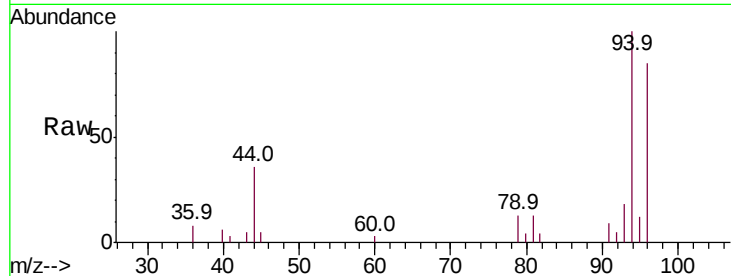
96 84.7 72.8 109.2

Manual Integrations

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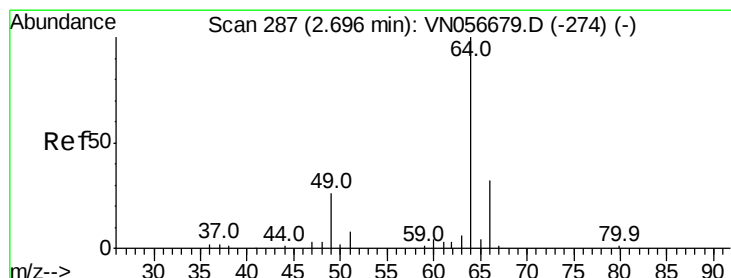
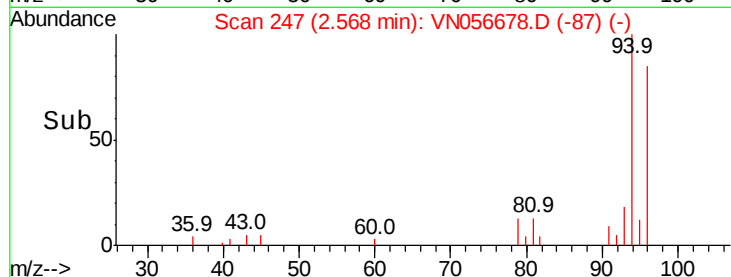
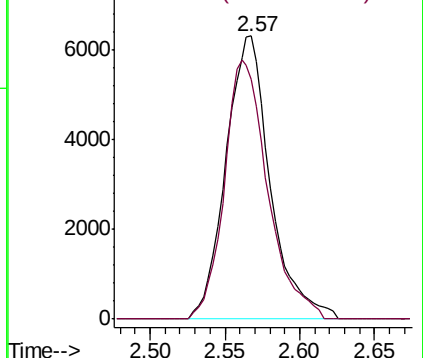
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 5.310 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.00 min

Lab File: VN056678.D

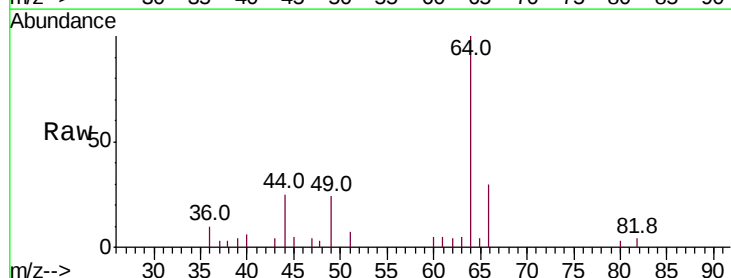
Acq: 12 Jul 2019 10:08

Tgt Ion: 64 Resp: 11543

Ion Ratio Lower Upper

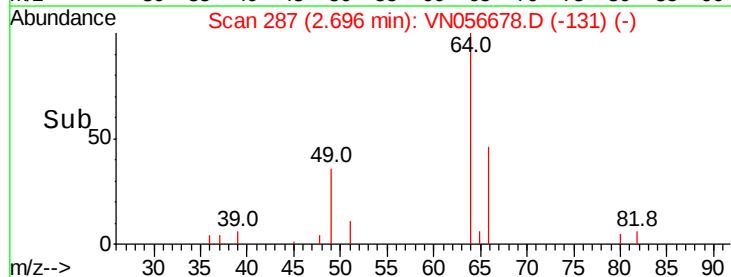
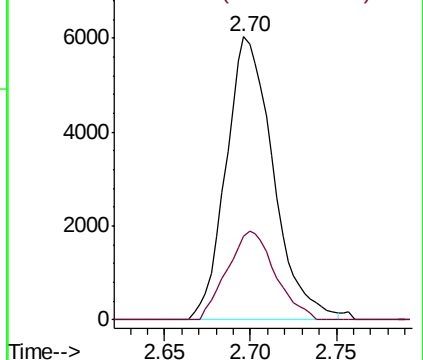
64 100

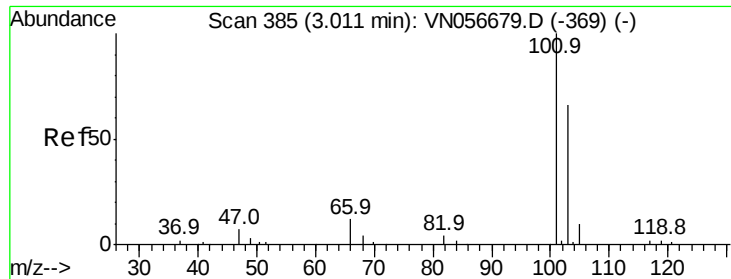
66 29.8 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

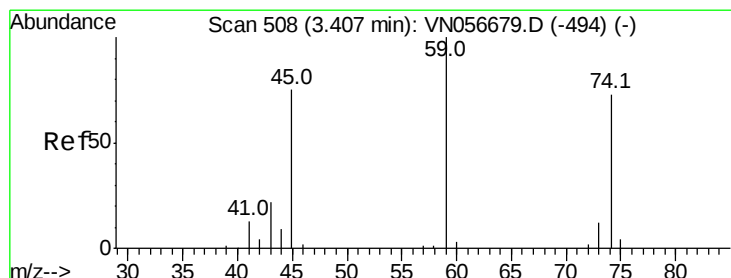
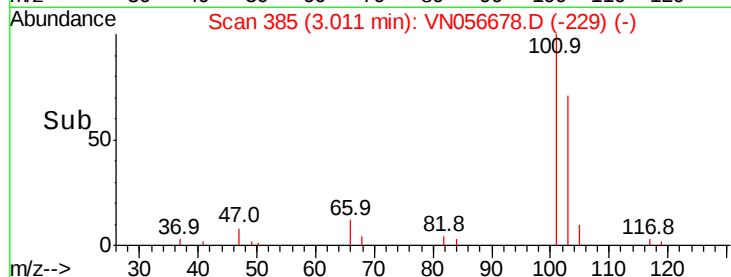
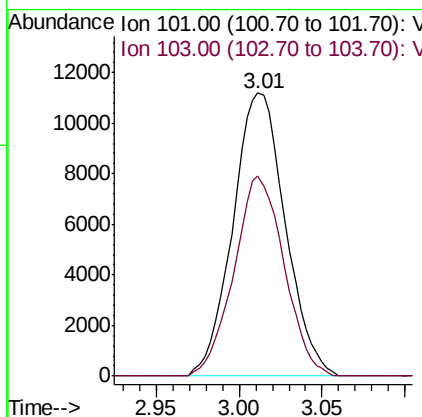
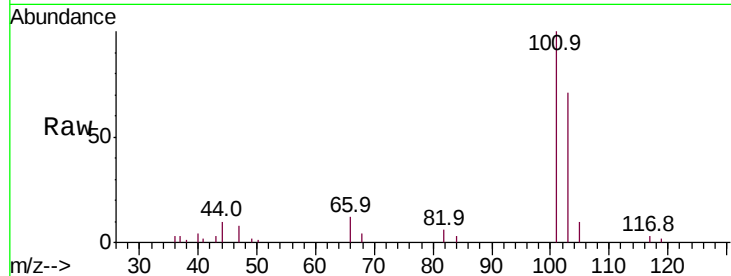
Trichlorofluoromethane
 Concen: 4.907 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:101 Resp: 24601
 Ion Ratio Lower Upper
 101 100
 103 70.7 52.8 79.2

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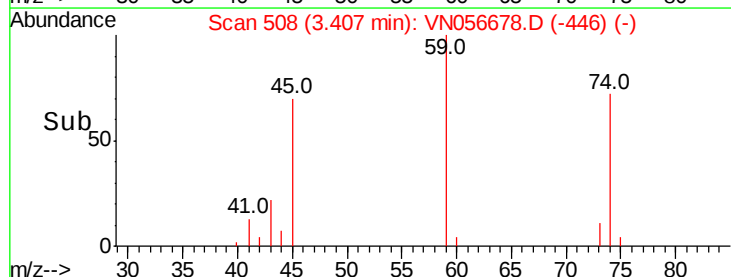
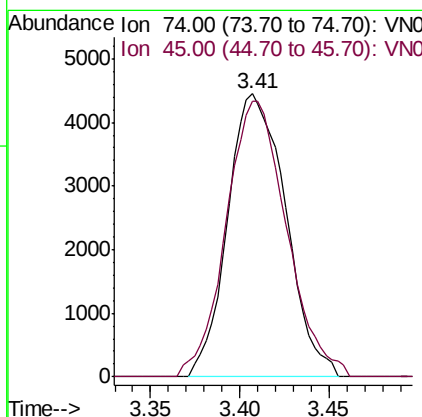
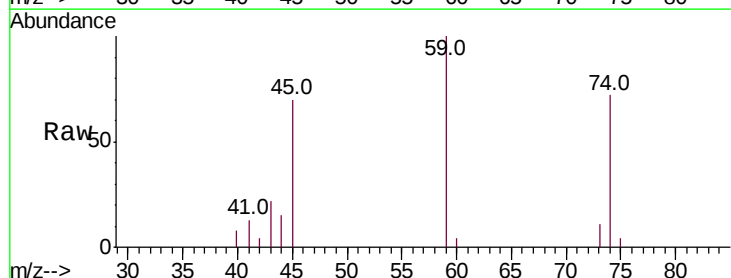
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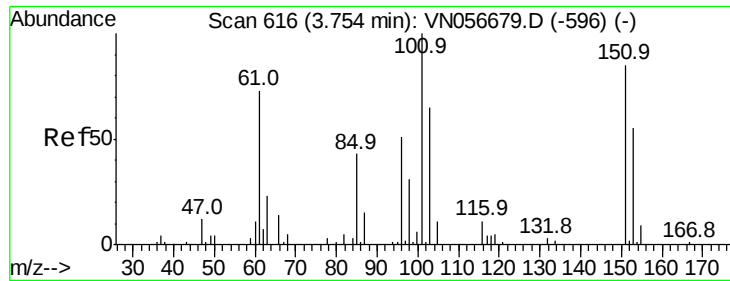


#8

Diethyl Ether
 Concen: 4.802 ug/l
 RT: 3.41 min Scan# 508
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion: 74 Resp: 10078
 Ion Ratio Lower Upper
 74 100
 45 101.7 19.9 179.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.086 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

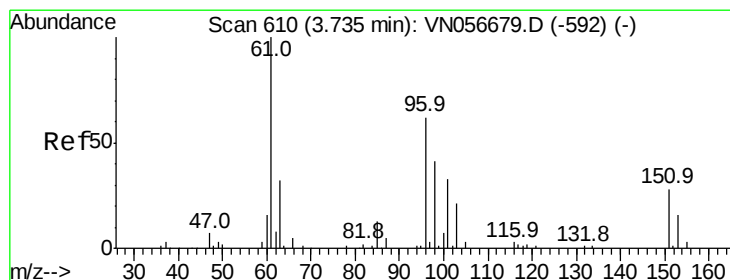
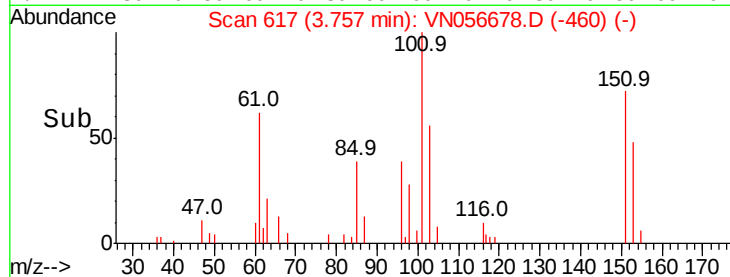
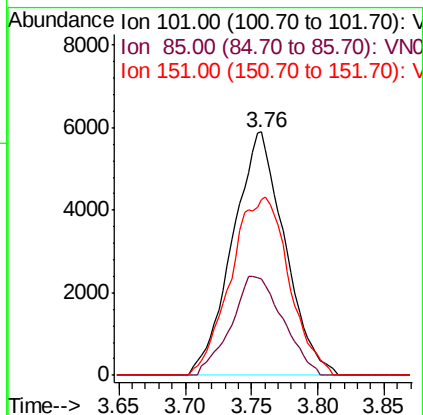
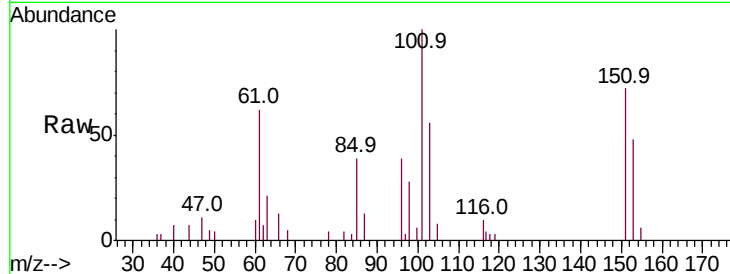
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	16114
Ion Ratio	Lower	Upper	
101	100		
85	40.4	0.0	84.2
151	34.9	0.0	167.6

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 4.975 ug/l

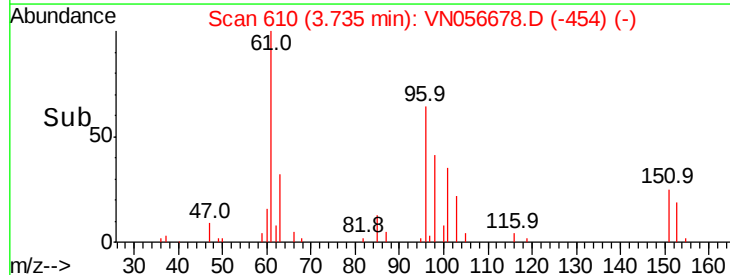
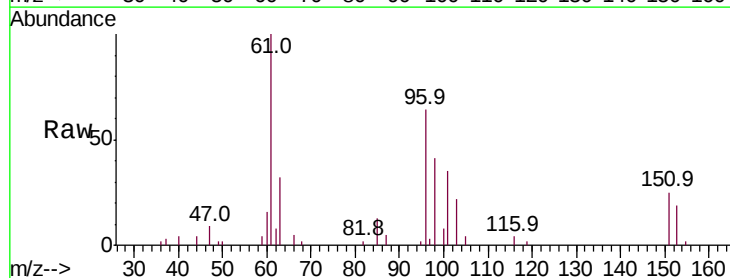
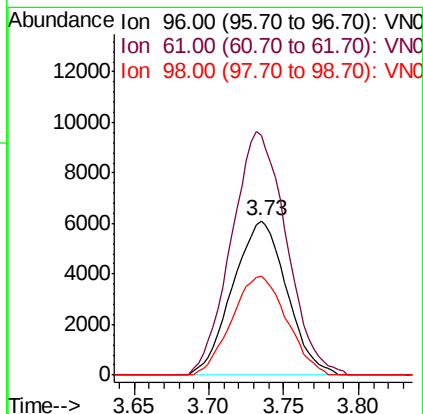
RT: 3.73 min Scan# 610

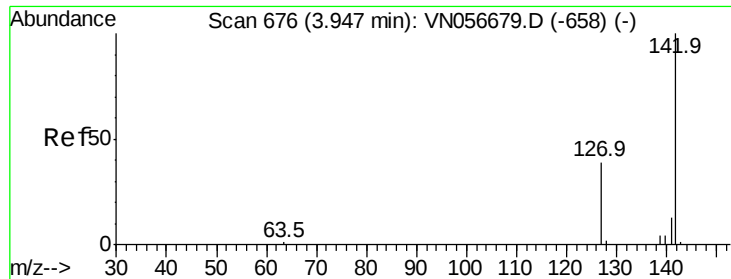
Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion:	96	Resp:	15361
Ion Ratio	Lower	Upper	
96	100		
61	155.9	129.0	193.4
98	64.4	52.5	78.7





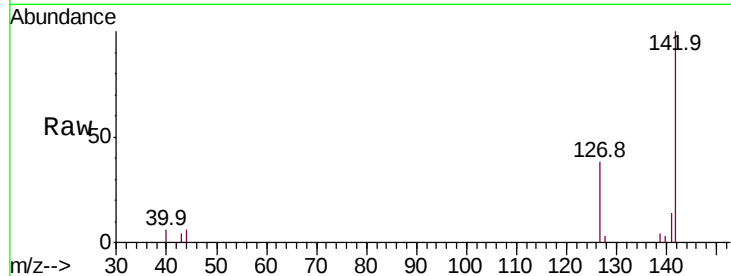
#11
Methyl Iodide
Concen: 3.802 ug/l
RT: 3.95 min Scan# 677
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
142	100		
127	37.5	19.5	58.5
141	14.5	6.8	20.3

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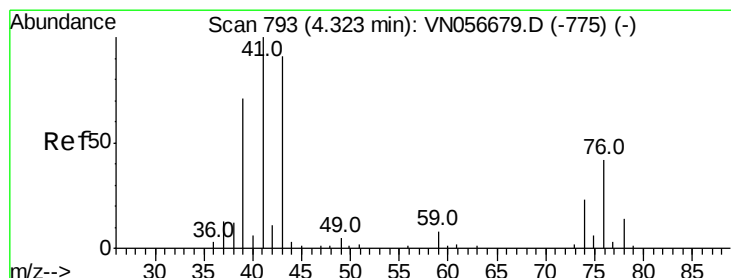
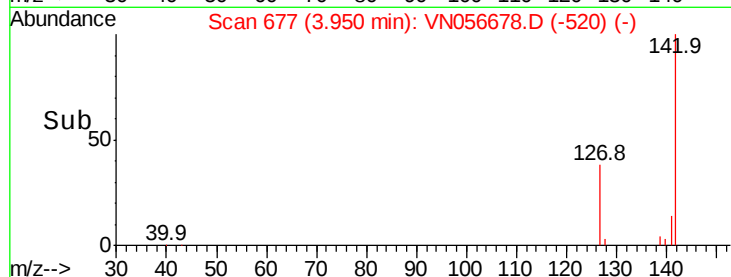
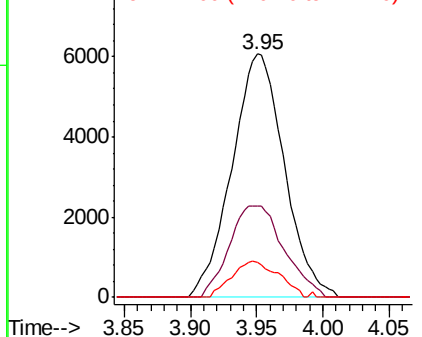


Abundance

Ion 142.00 (141.70 to 142.70): V

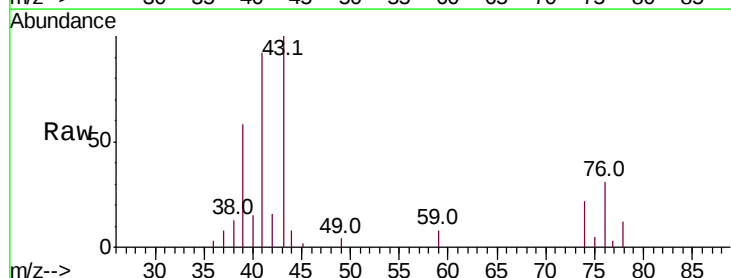
Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



#12
Methyl Acetate
Concen: 5.929 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

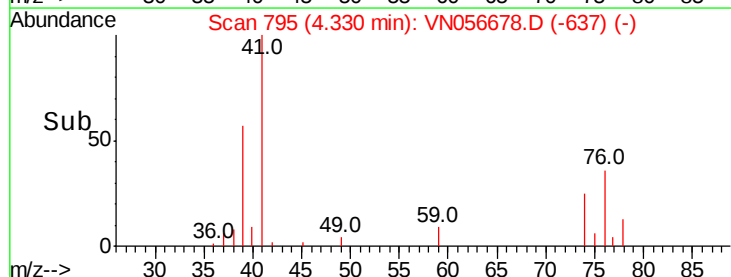
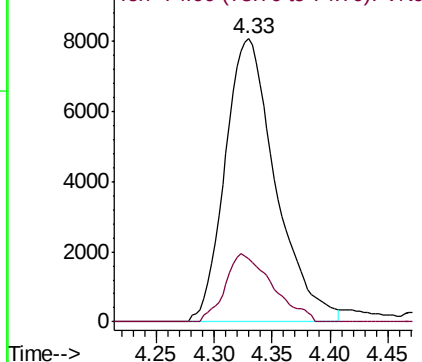
Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.6	20.2	30.4

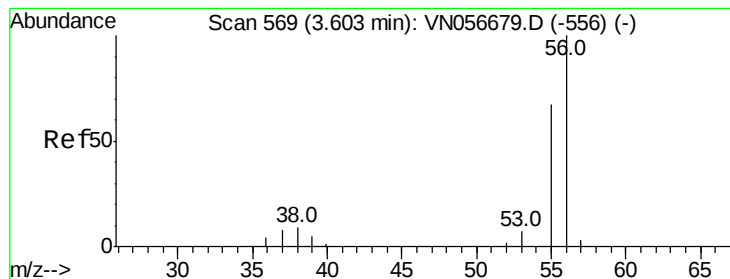


Abundance

Ion 43.00 (42.70 to 43.70): V

Ion 74.00 (73.70 to 74.70): V





#13

Acrolein

Concen: 24.706 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 9322

Ion Ratio Lower Upper

56 100

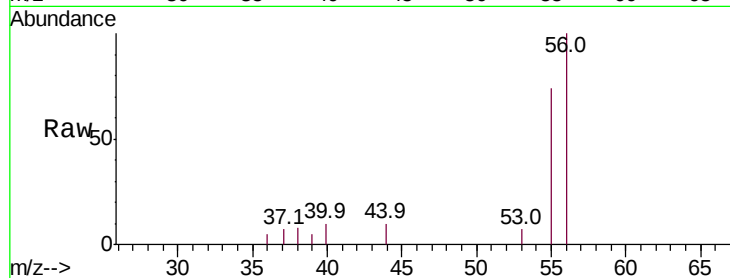
55 74.2 56.9 85.3

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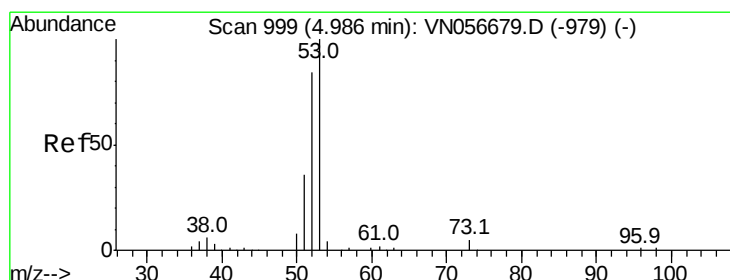
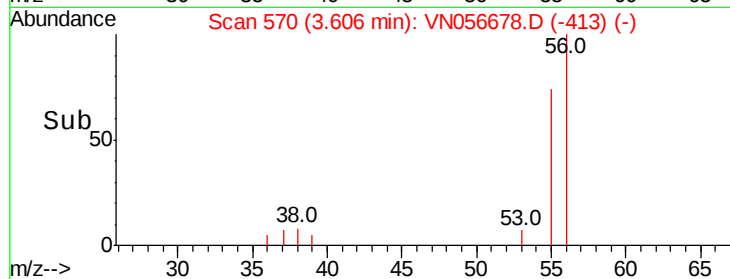
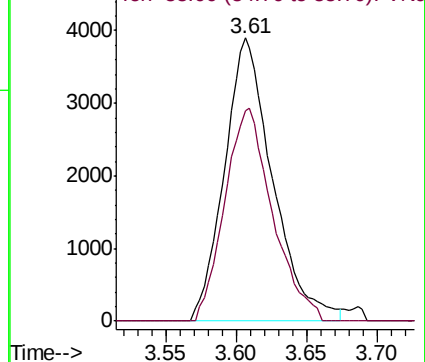
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 24.198 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

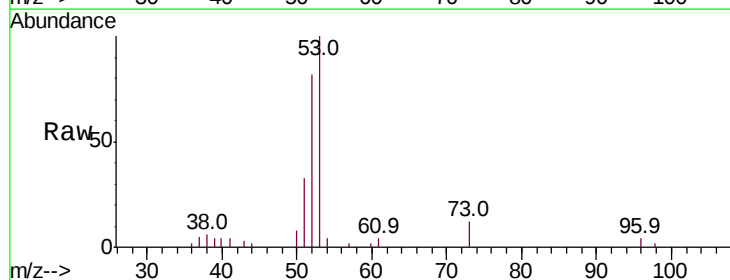
Tgt Ion: 53 Resp: 44092

Ion Ratio Lower Upper

53 100

52 82.9 41.3 123.7

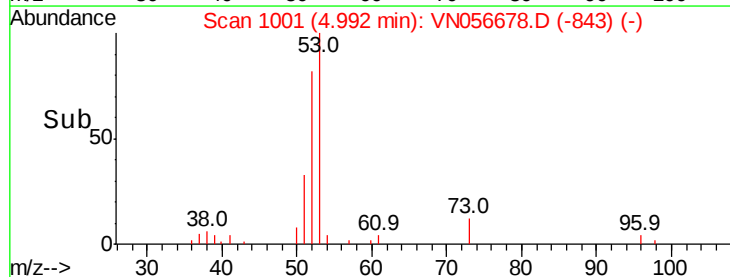
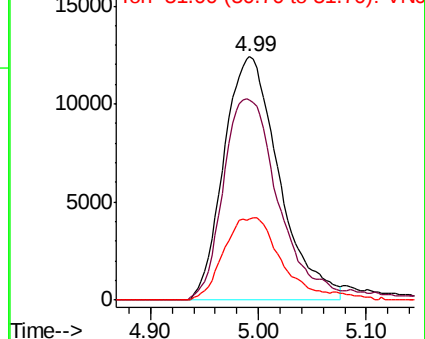
51 14.8 17.7 53.1#

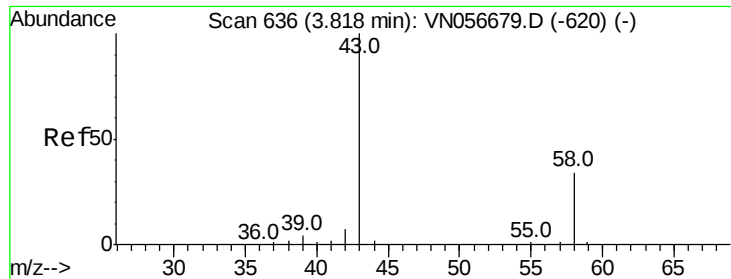


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





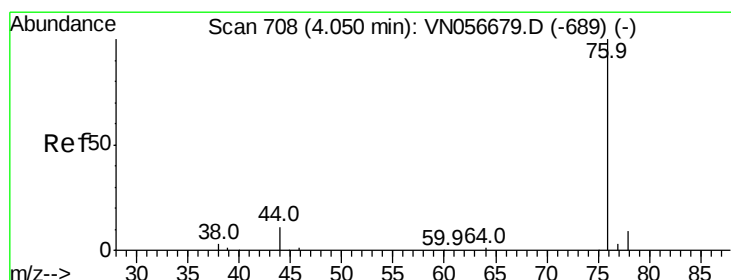
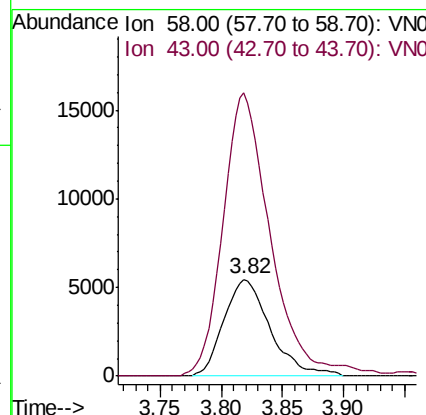
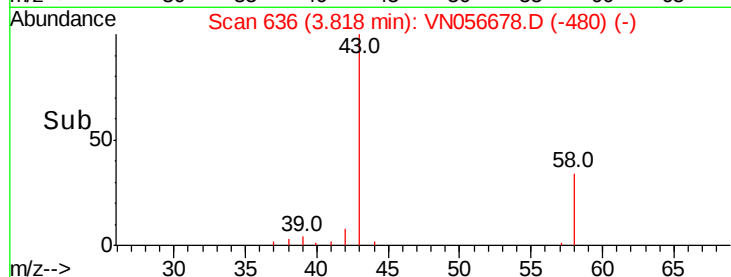
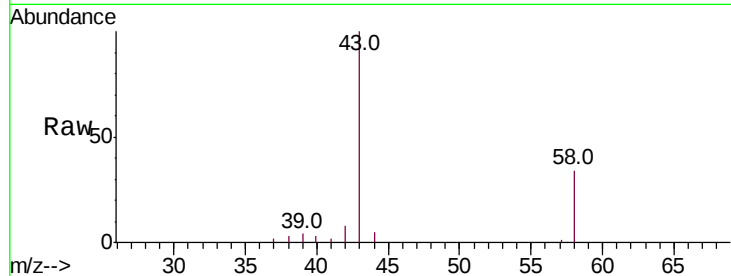
#15
Acetone
Concen: 26.047 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
58	100		
43	284.9	233.9	350.9

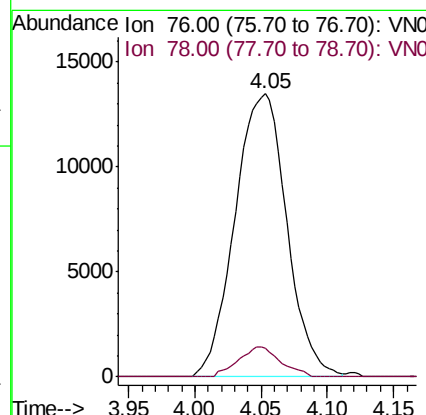
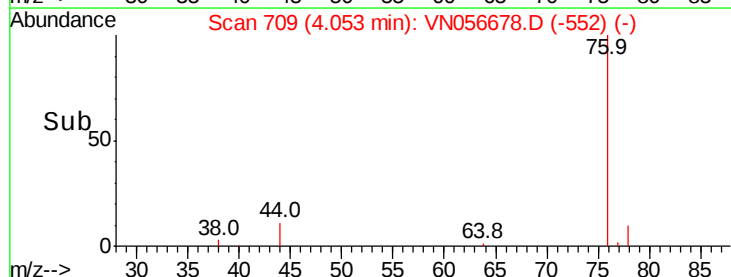
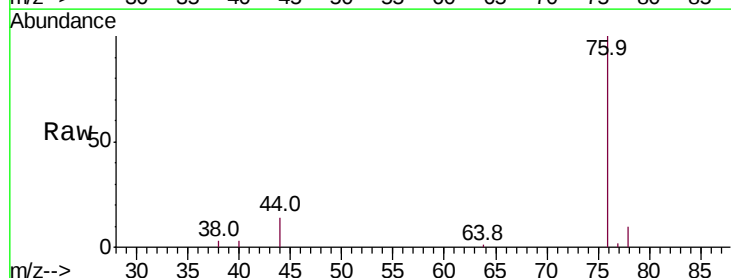
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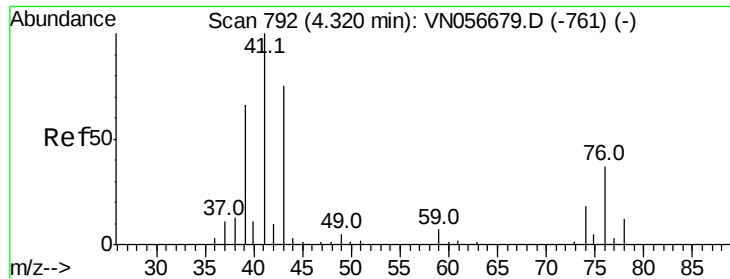
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#16
Carbon Disulfide
Concen: 4.825 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.1	7.4	11.0





#17

Allvl chloride

Concen: 4.736 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

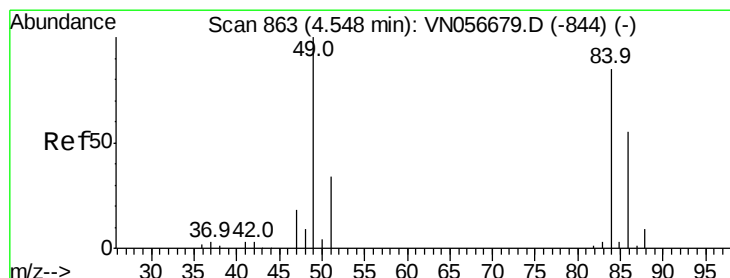
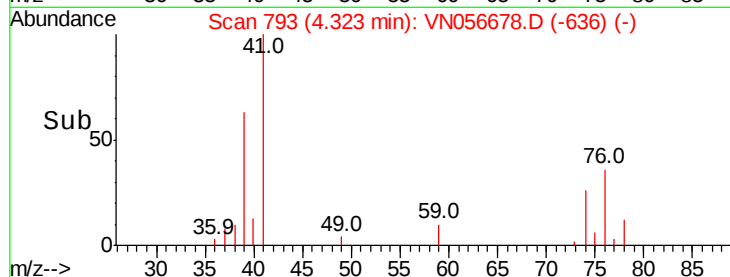
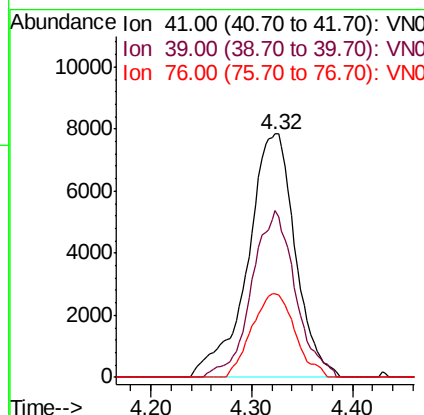
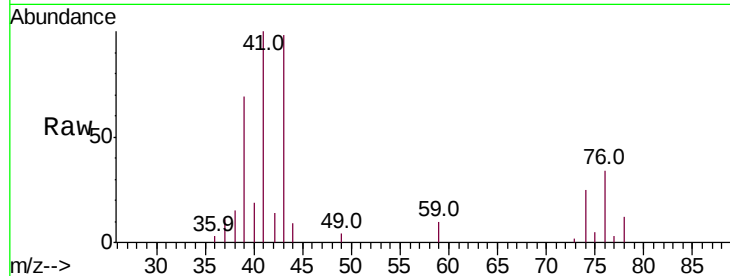
ClientSampleId :

VSTDIC005

Tot Ion:	41	Resp:	25644
Ion Ratio	Lower	Upper	
41	100		
39	68.7	32.8	98.4
76	34.2	18.5	55.5

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#18

Methylene Chloride

Concen: 5.036 ug/l

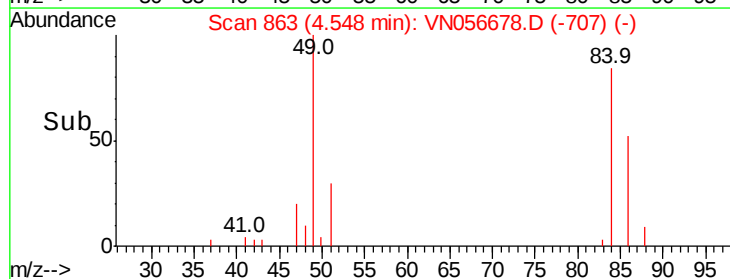
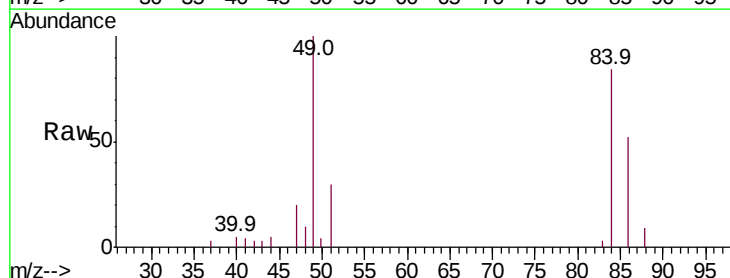
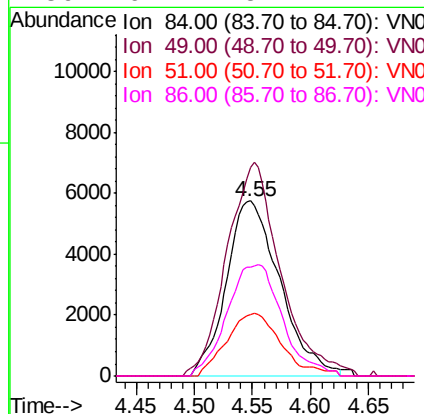
RT: 4.55 min Scan# 863

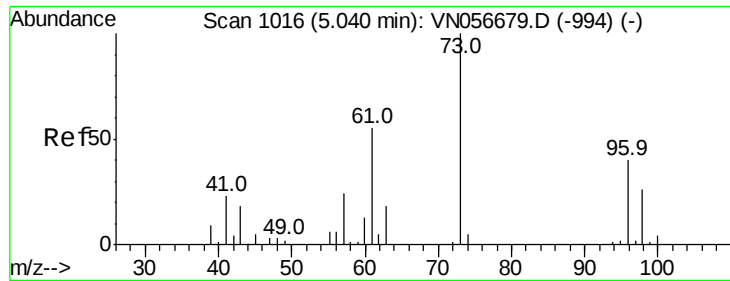
Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion:	84	Resp:	18409
Ion Ratio	Lower	Upper	
84	100		
49	114.9	93.9	140.9
51	35.5	31.7	47.5
86	62.4	51.4	77.2





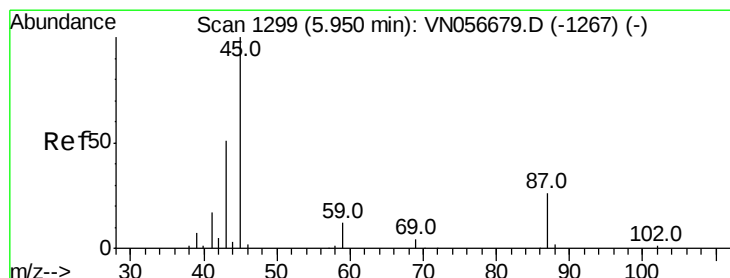
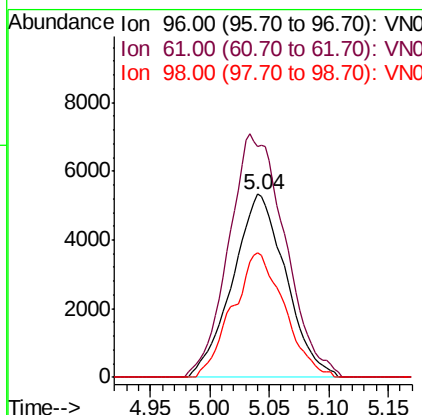
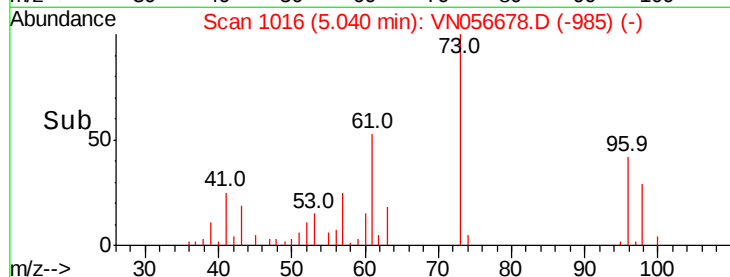
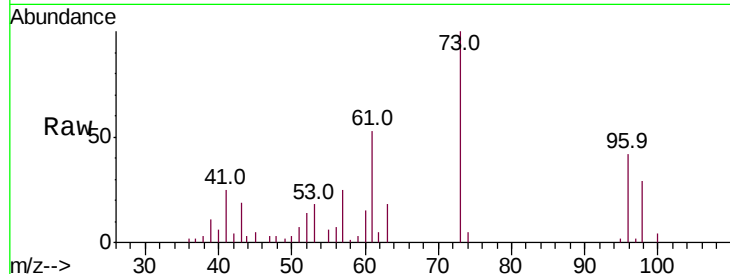
#19
trans-1,2-Dichloroethene
Concen: 4.936 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.1	109.6	164.4
98	68.1	51.4	77.2

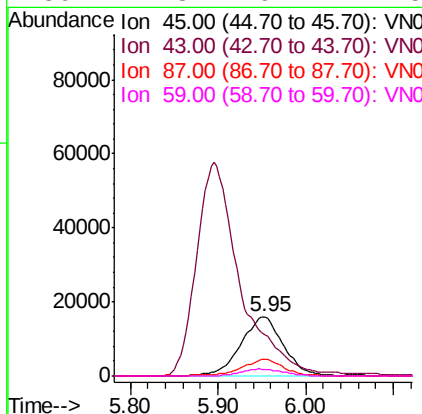
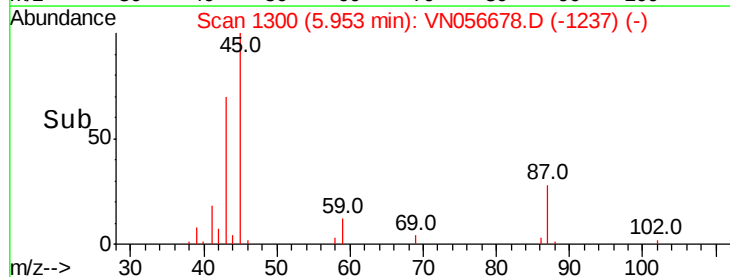
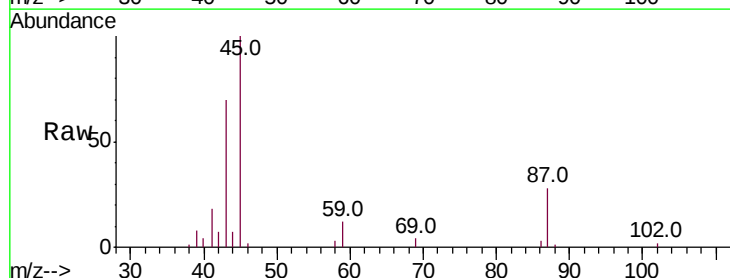
Manual Integrations
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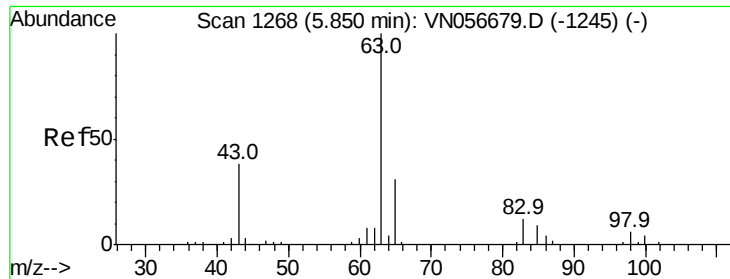
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#20
Diisopropyl ether
Concen: 4.843 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.0	50.3	75.5
87	28.5	21.4	32.0
59	11.8	9.7	14.5





#21

1,1-Dichloroethane

Concen: 4.883 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

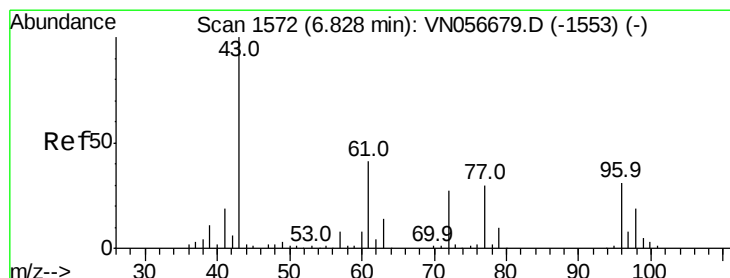
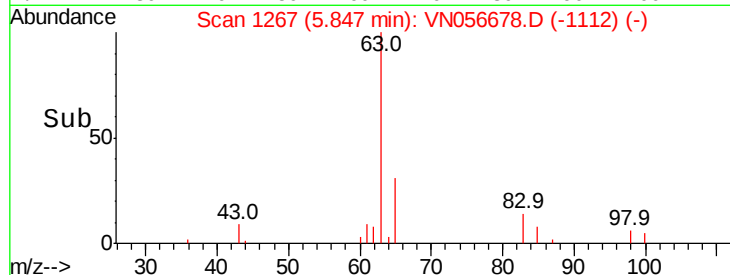
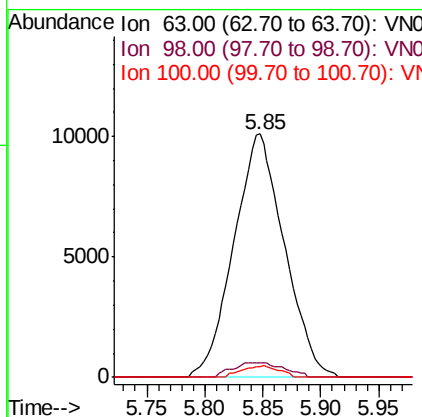
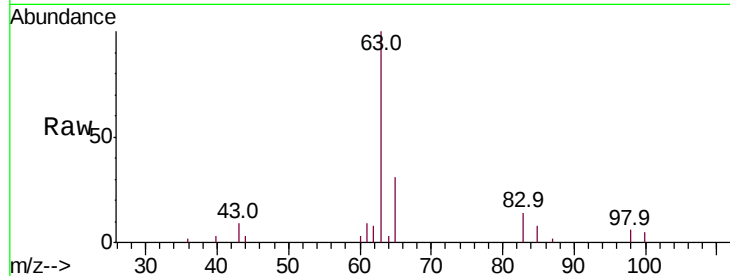
ClientSampleId :

VSTDIC005

Tot Ion:	63	Resp:	30624
Ion Ratio	Lower	Upper	
63	100		
98	6.0	3.3	9.8
100	4.6	2.1	6.3

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#22

cis-1,2-Dichloroethene

Concen: 5.003 ug/l

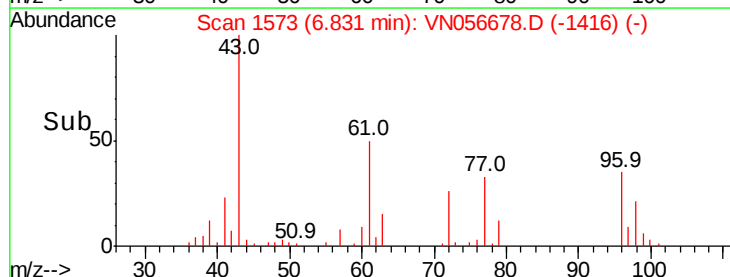
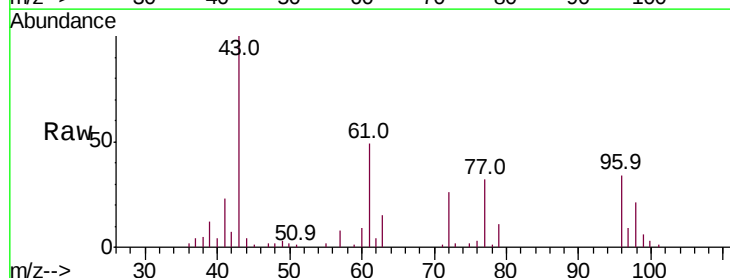
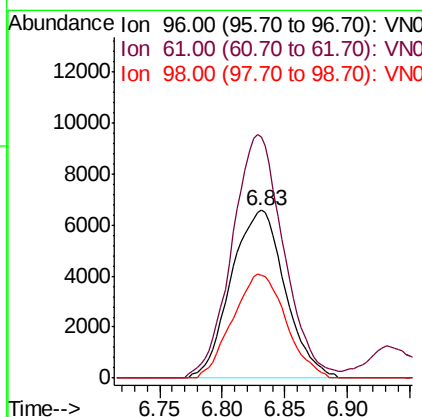
RT: 6.83 min Scan# 1573

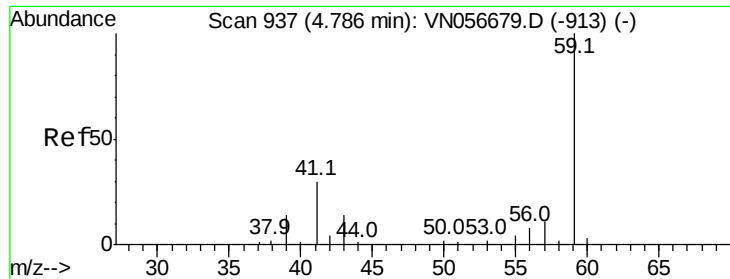
Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion:	96	Resp:	19695
Ion Ratio	Lower	Upper	
96	100		
61	138.6	112.1	168.1
98	61.0	52.2	78.2





#23

tert-Butyl Alcohol

Concen: 22.102 ug/l

RT: 4.79 min Scan# 938

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

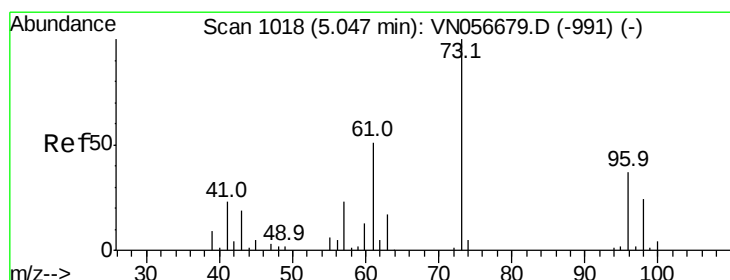
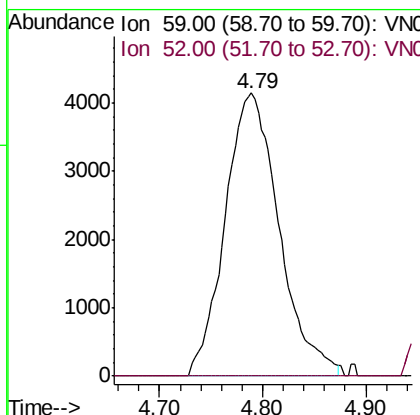
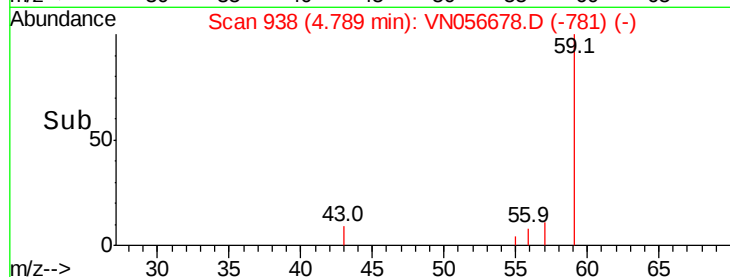
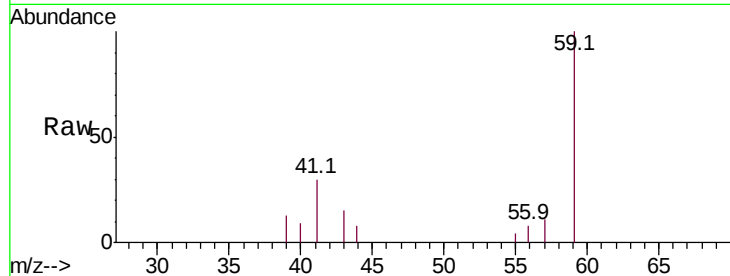
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 59 Resp: 15101

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#

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#24

Methyl tert-Butyl Ether

Concen: 4.802 ug/l

RT: 5.05 min Scan# 1018

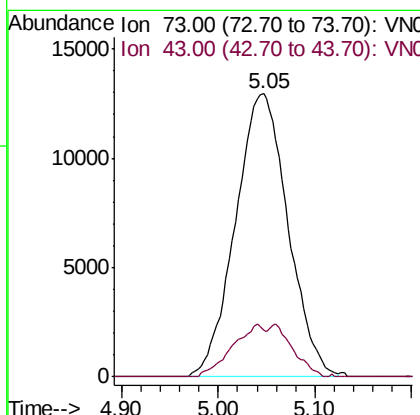
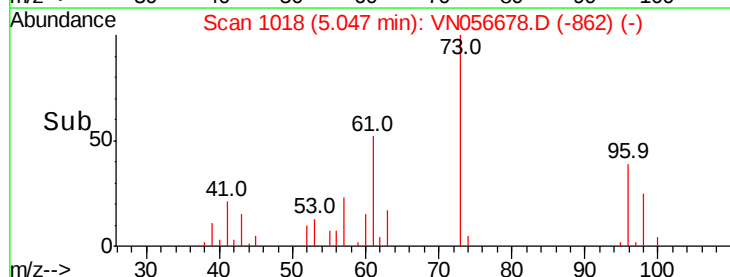
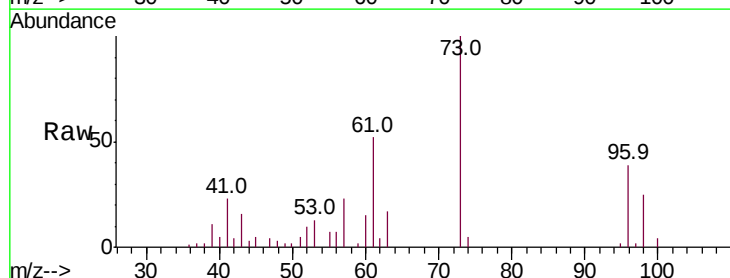
Delta R.T. 0.00 min

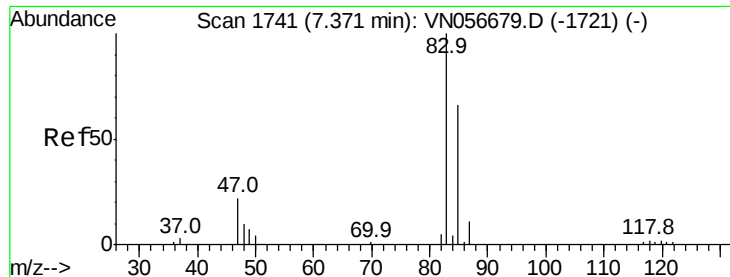
Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion: 73 Resp: 48792

Ion	Ratio	Lower	Upper
73	100		
43	11.7	15.1	22.7#





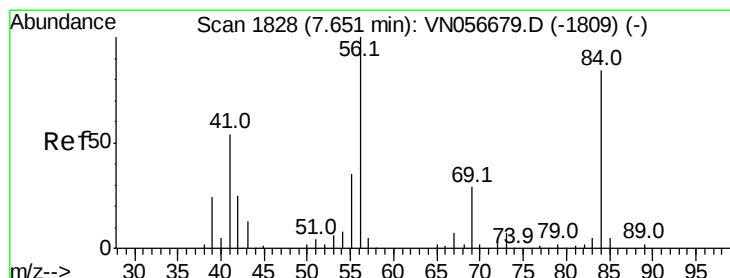
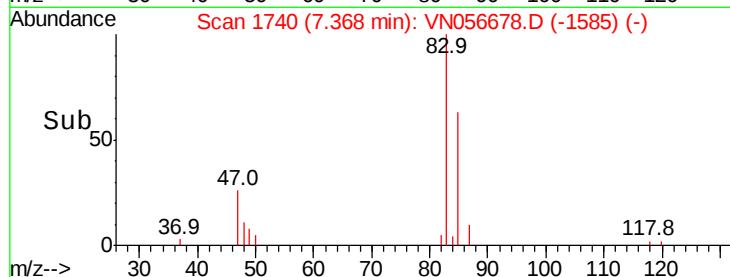
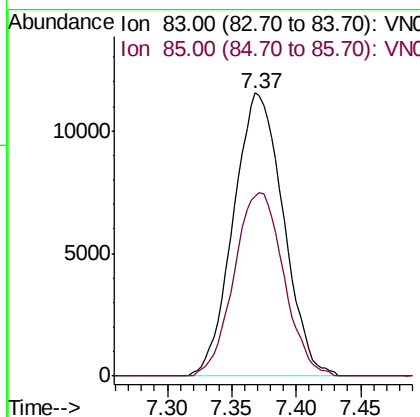
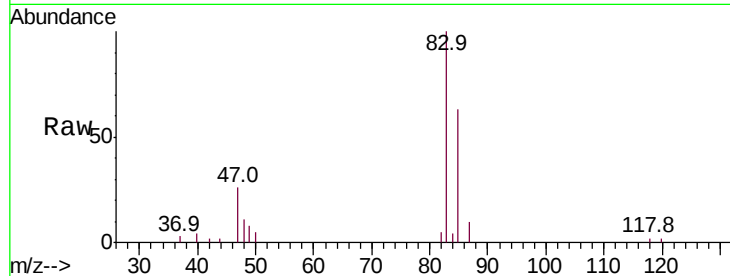
#25
Chloroform
Concen: 5.051 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	31113
Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.6	79.0

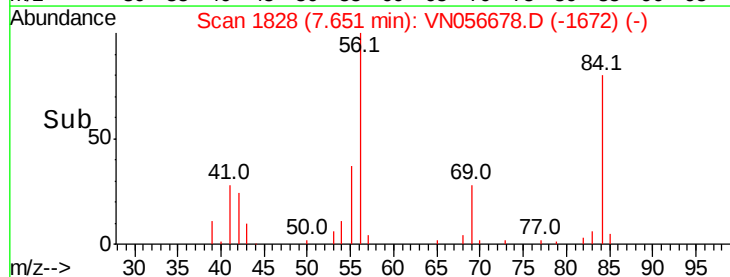
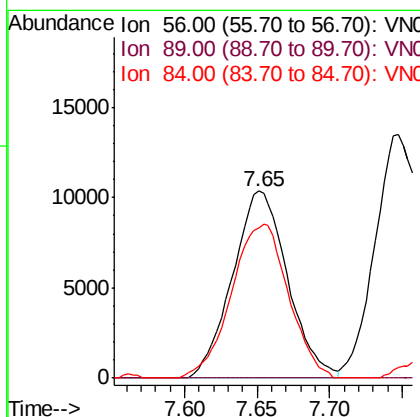
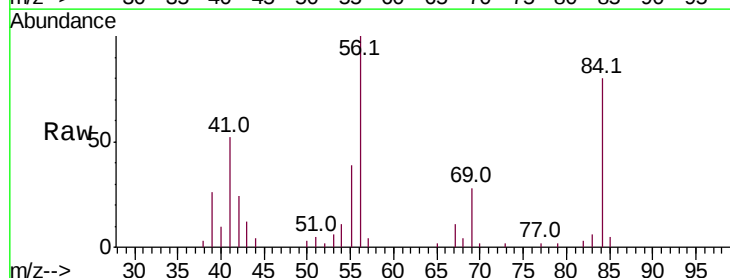
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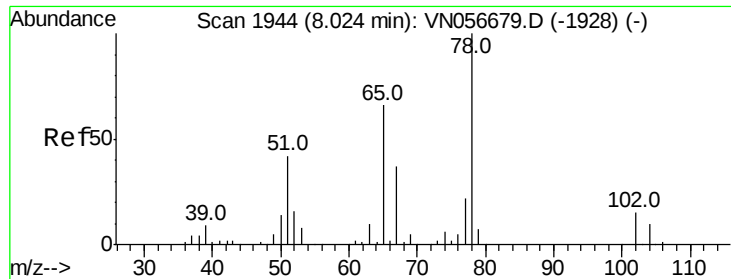
MMDadoda
7/16/2019 9:57:38 AM



#26
Cyclohexane
Concen: 4.697 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion	56	Resp	27339
Ion	Ratio	Lower	Upper
56	100		
89	0.0	1.4	2.2#
84	85.1	68.2	102.4





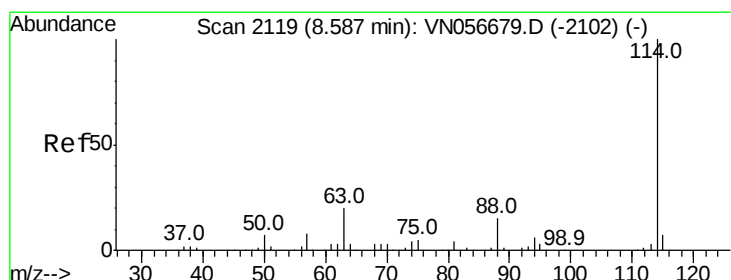
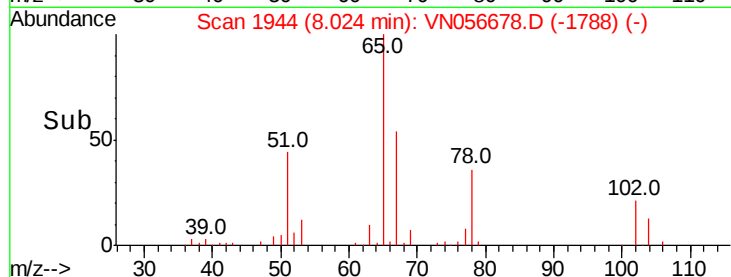
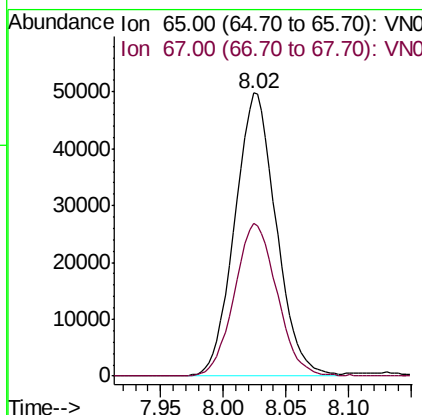
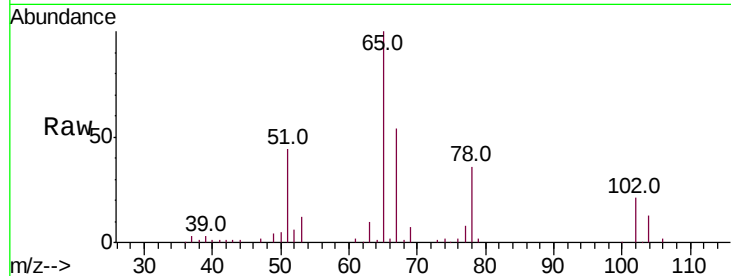
#27
 1,2-Dichloroethane-d4
 Concen: 30.178 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 65 Resp: 114625
 Ion Ratio Lower Upper
 65 100
 67 55.1 43.4 65.0

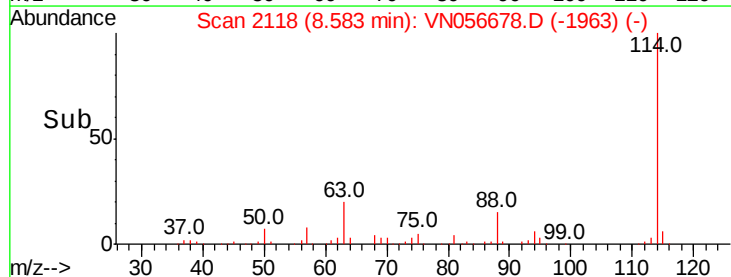
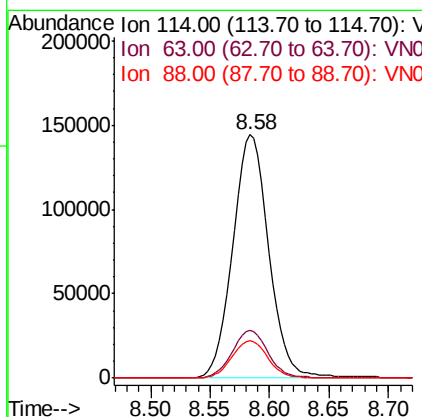
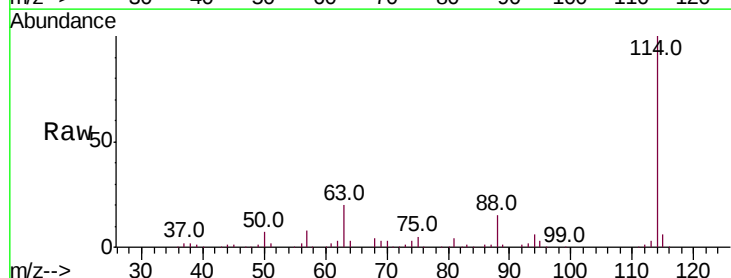
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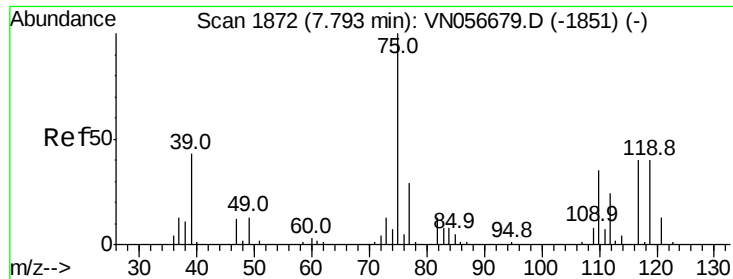
MMDadoda
 7/16/2019 9:57:38 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion: 114 Resp: 303198
 Ion Ratio Lower Upper
 114 100
 63 19.6 16.2 24.2
 88 15.3 12.3 18.5





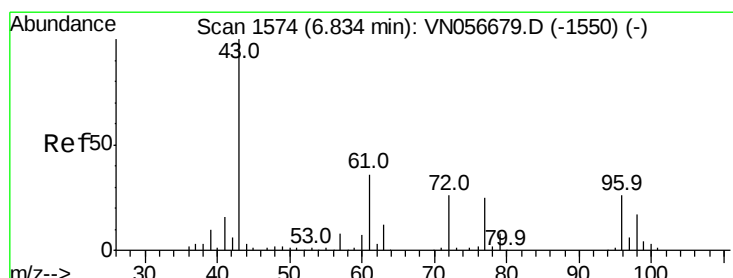
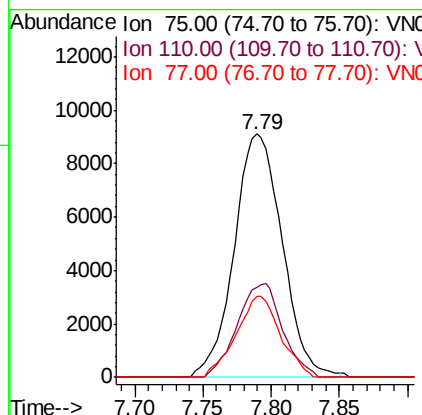
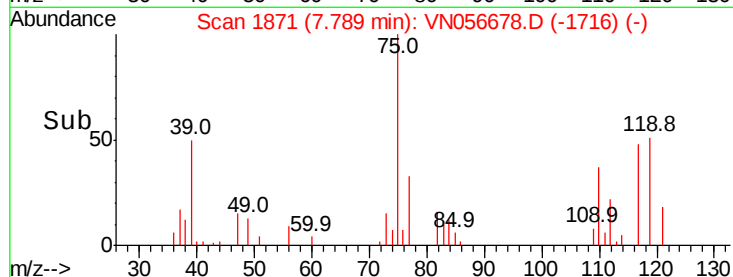
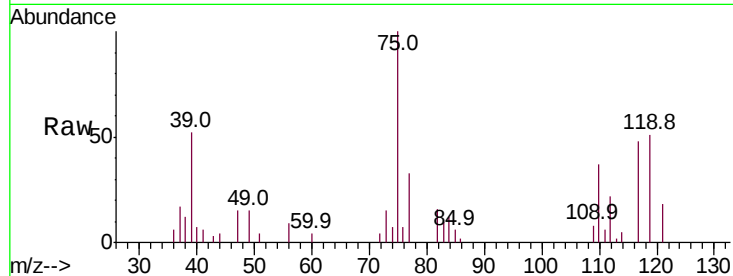
#29
 1,1-Dichloropropene
 Concen: 4.832 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
110	36.1	0.0	72.4
77	30.6	0.0	62.2

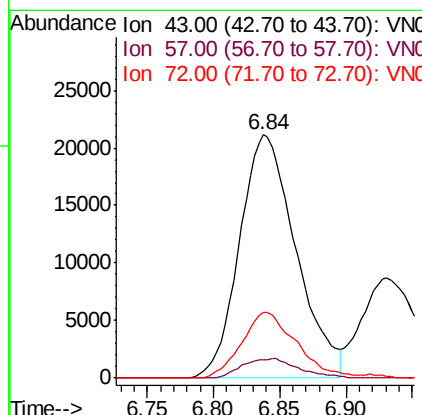
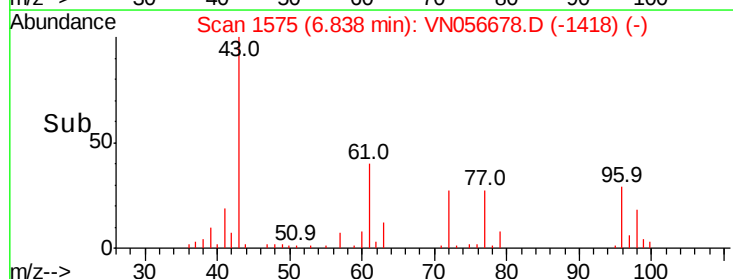
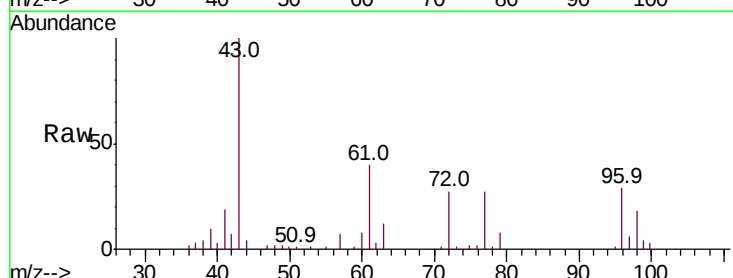
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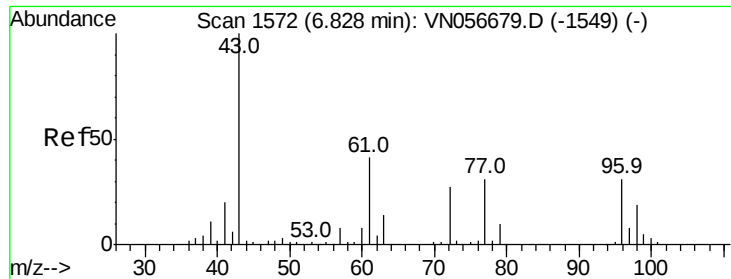
MMDadoda
 7/16/2019 9:57:38 AM



#30
 2-Butanone
 Concen: 24.168 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.0	6.6	10.0
72	26.1	21.3	31.9





#31

2,2-Dichloropropane

Concen: 4.875 ug/l m

RT: 6.82 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 77 Resp: 21604

Ion Ratio Lower Upper

77 100

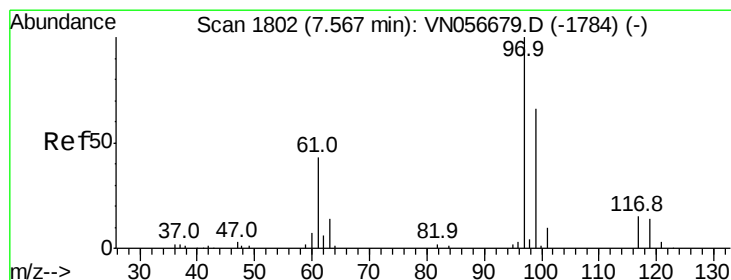
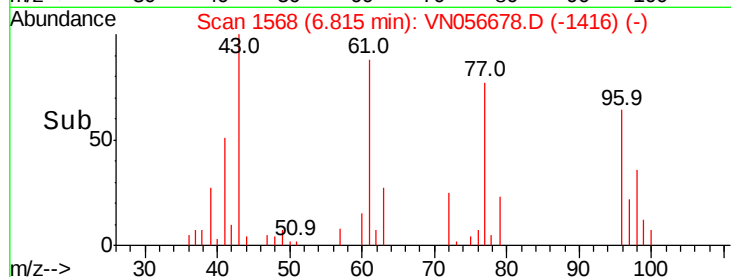
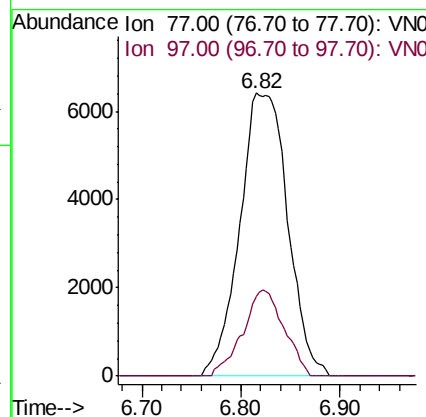
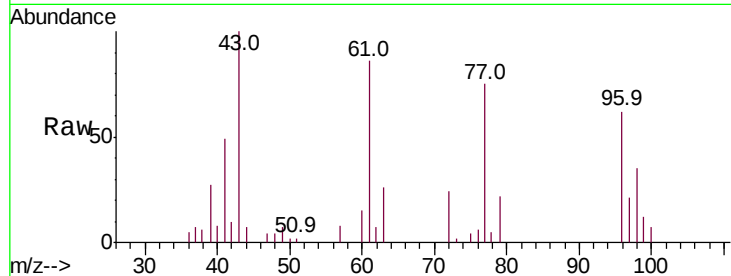
97 26.2 19.7 29.5

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 4.973 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

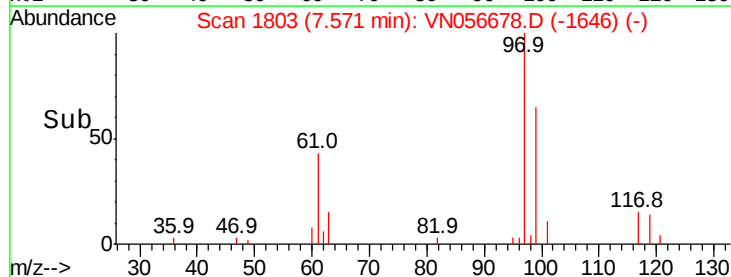
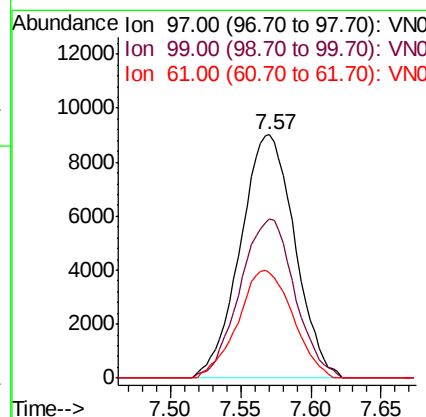
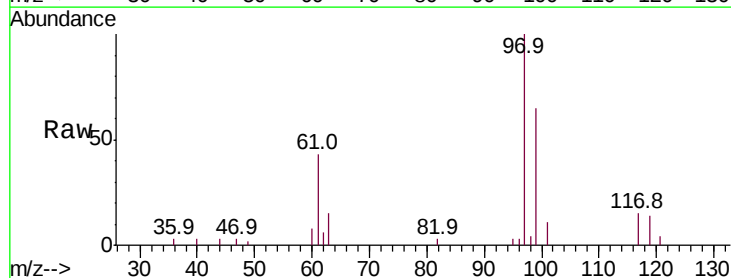
Tgt Ion: 97 Resp: 24341

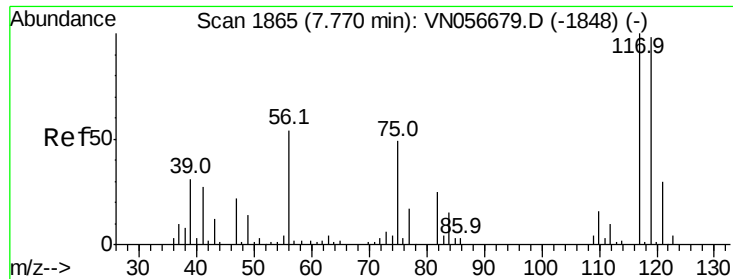
Ion Ratio Lower Upper

97 100

99 65.6 52.0 78.0

61 44.6 34.4 51.6





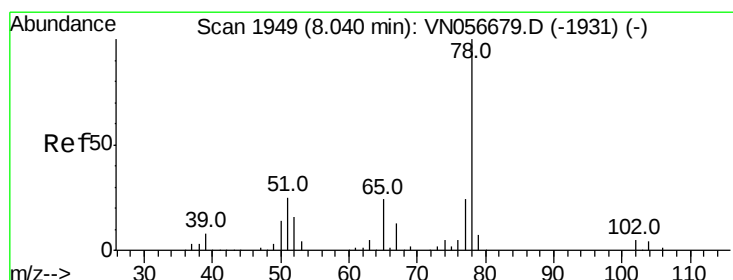
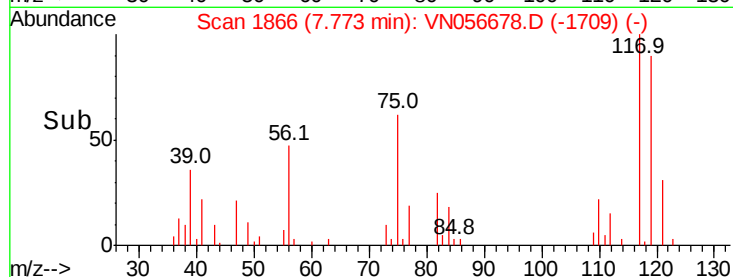
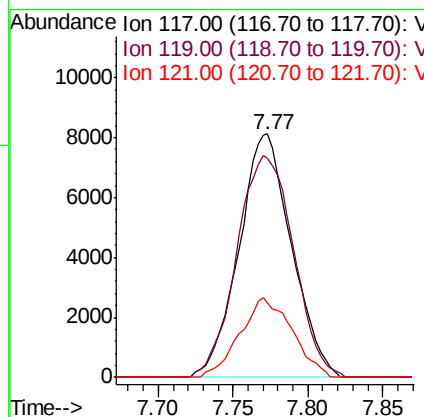
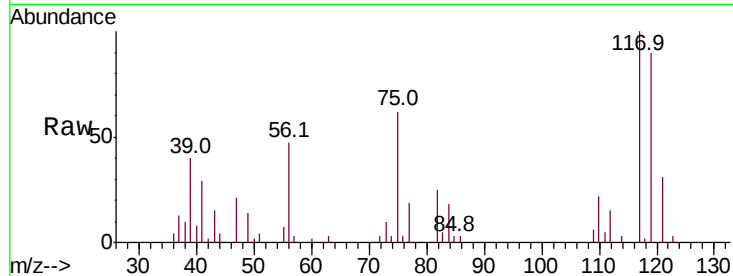
#33
Carbon Tetrachloride
Concen: 4.751 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:117 Resp: 19852
Ion Ratio Lower Upper
117 100
119 90.0 78.7 118.1
121 30.7 24.0 36.0

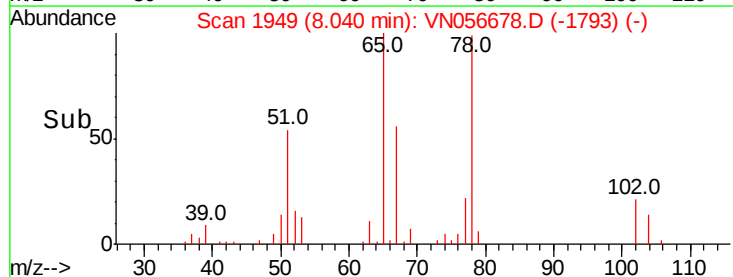
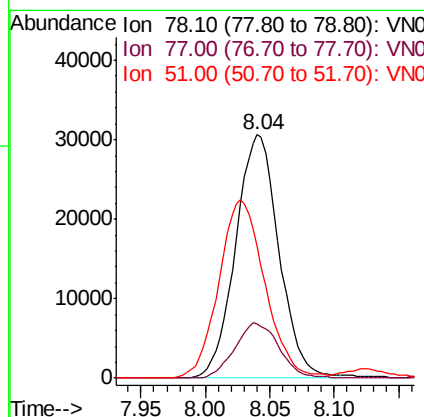
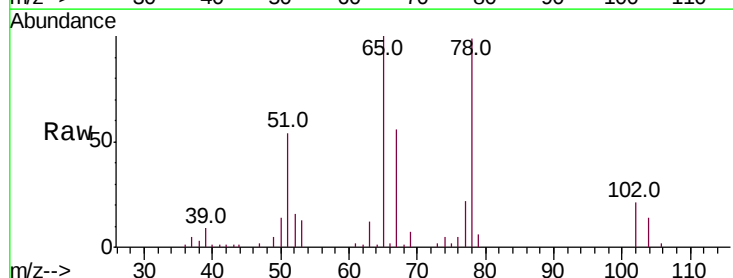
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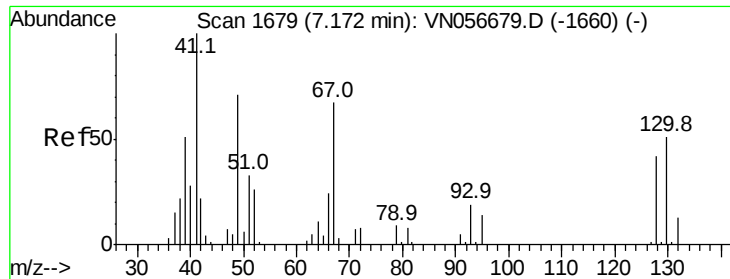
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#34
Benzene
Concen: 4.989 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion: 78 Resp: 71560
Ion Ratio Lower Upper
78 100
77 22.5 19.0 28.4
51 52.1 19.7 29.5#





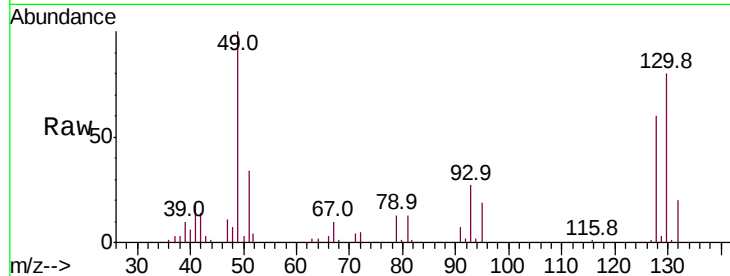
#35
Methacrylonitrile
Concen: 5.283 ug/l m
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.4	25.4	76.2
67	54.1	33.6	100.8
52	21.8	12.9	38.7

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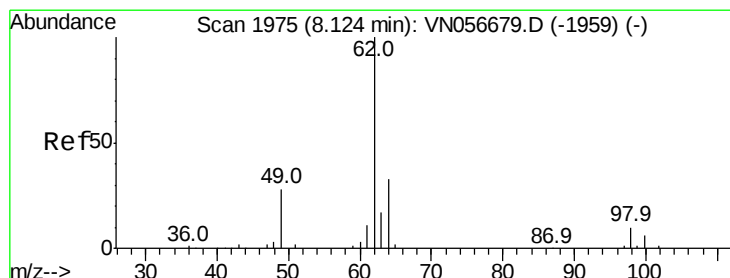
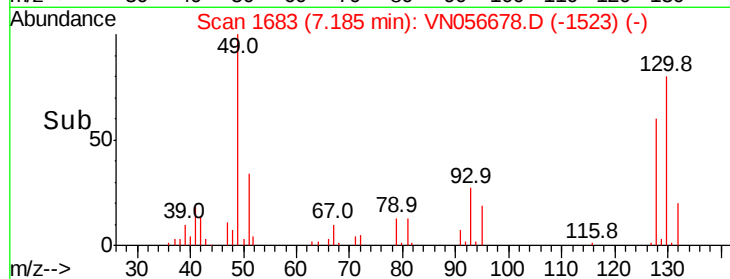
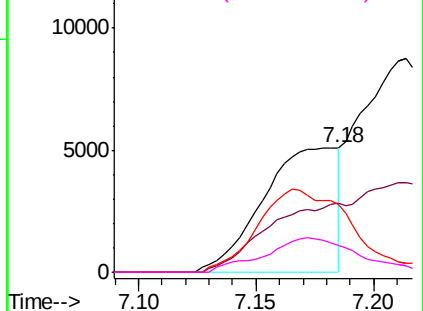
Abundance

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

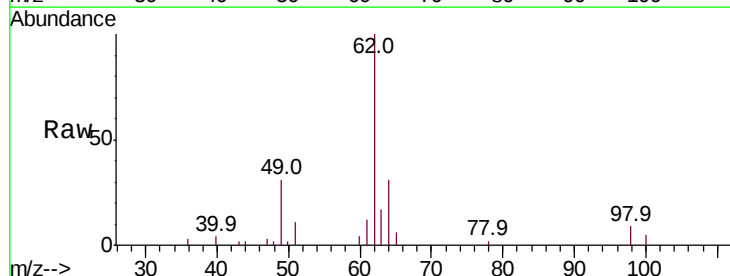
Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#36
1,2-Dichloroethane
Concen: 5.132 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

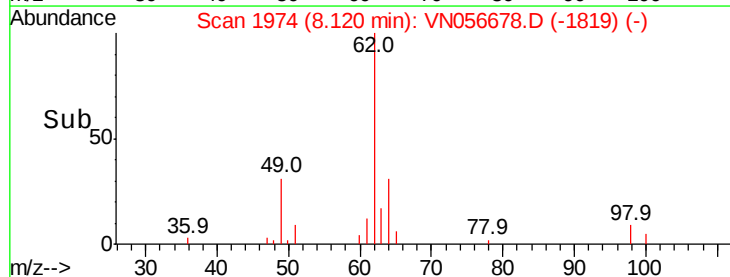
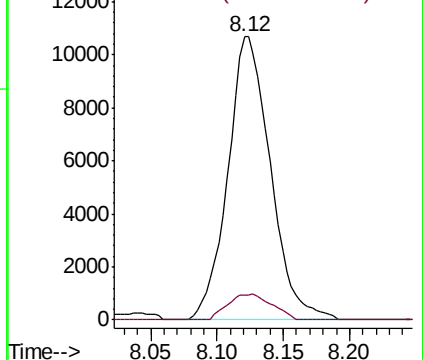
Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.7	11.5

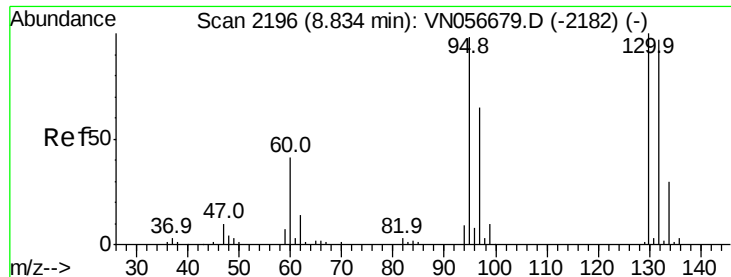


Abundance

Ion 62.00 (61.70 to 62.70): VNC

Ion 98.00 (97.70 to 98.70): VNC





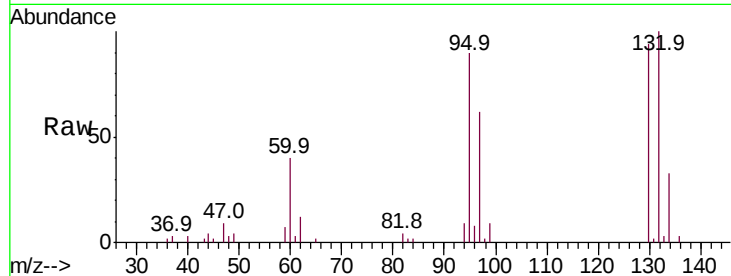
#37
 Trichloroethene
 Concen: 5.016 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

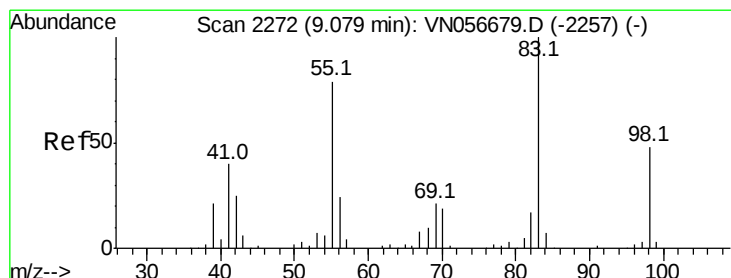
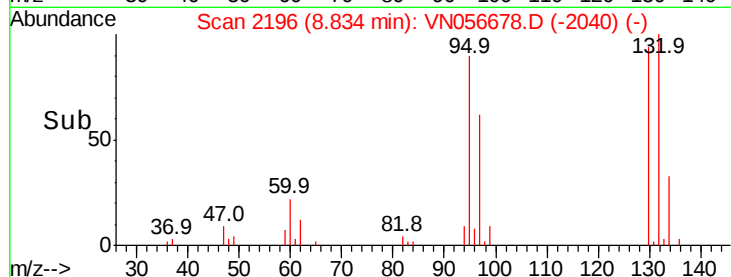
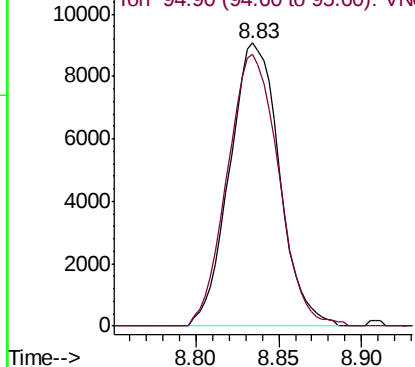
Tot Ion:130 Resp: 18956
 Ion Ratio Lower Upper
 130 100
 95 95.9 78.4 117.6

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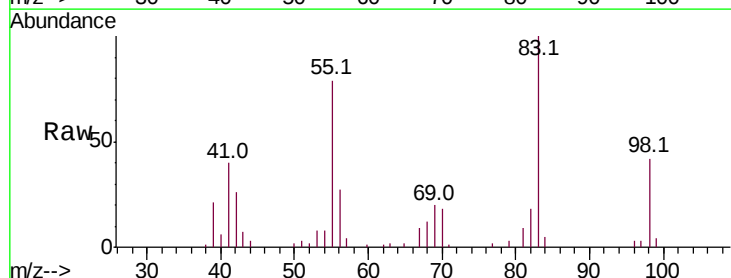


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

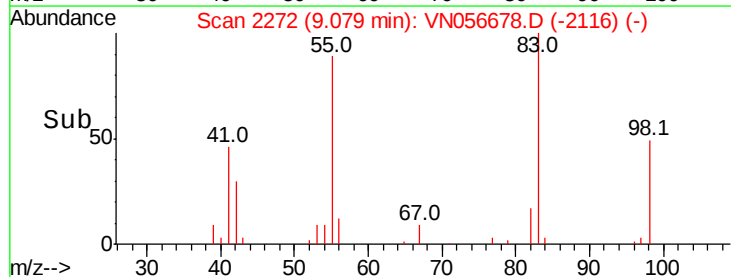
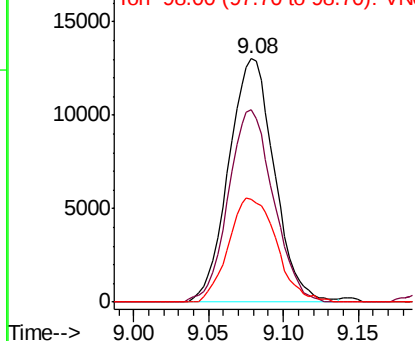


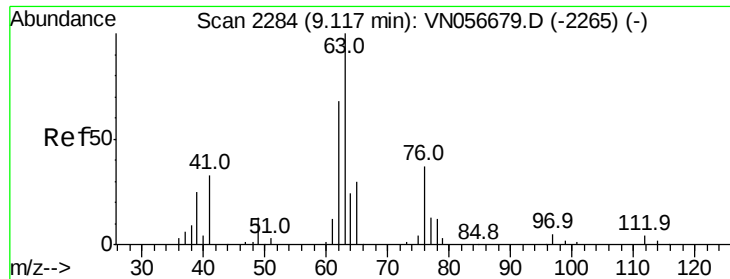
#38
 Methylcyclohexane
 Concen: 4.782 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion: 83 Resp: 27671
 Ion Ratio Lower Upper
 83 100
 55 77.8 38.4 115.2
 98 44.9 23.3 69.9



Abundance Ion 83.00 (82.70 to 83.70): VN
 Ion 55.00 (54.70 to 55.70): VN
 Ion 98.00 (97.70 to 98.70): VN





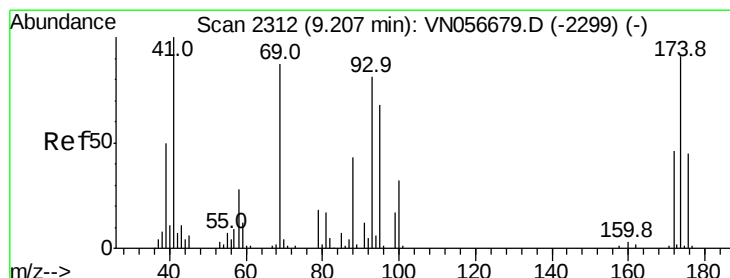
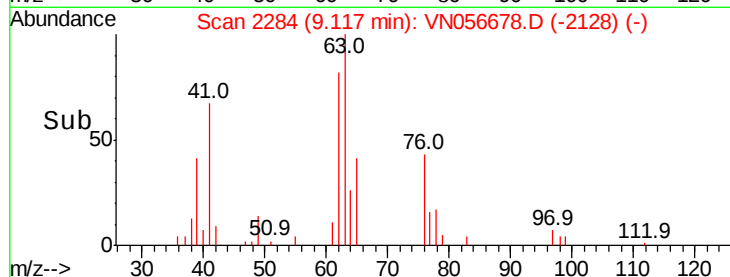
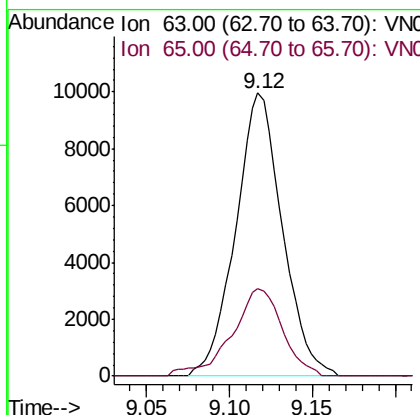
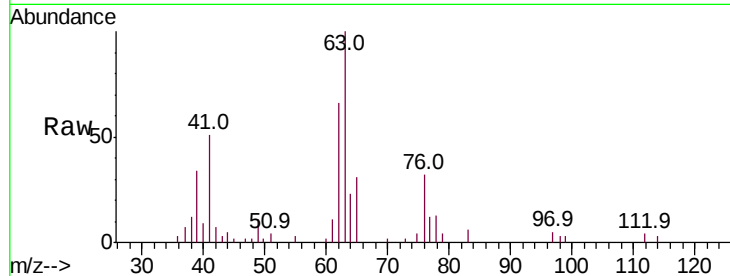
#39
 1,2-Dichloropropane
 Concen: 5.054 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	63	Ratio	100	Resp	19459
Ion	63	100		Lower	Upper
	65	30.9		24.6	36.8

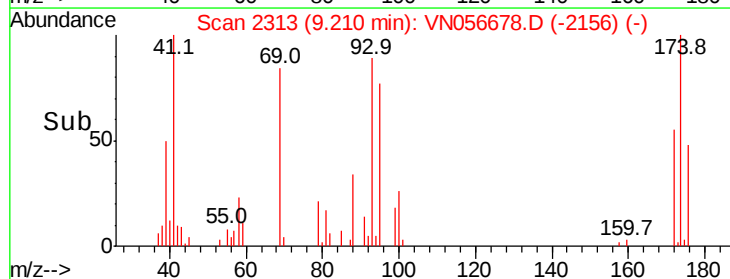
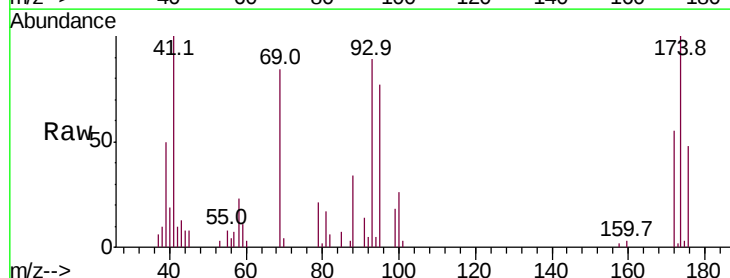
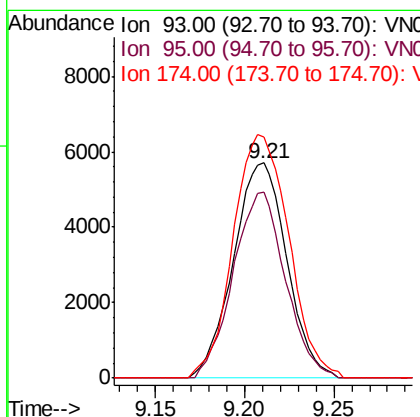
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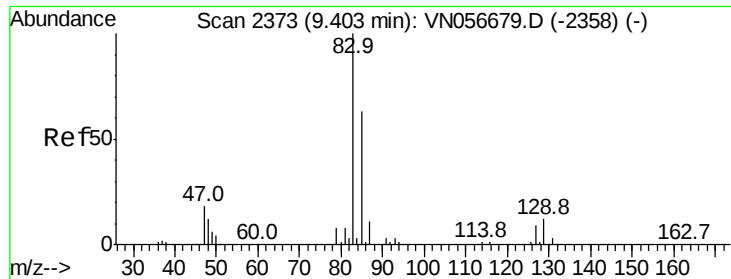
MMDadoda
 7/16/2019 9:57:38 AM



#40
 Dibromomethane
 Concen: 4.996 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion	93	Ratio	100	Resp	11952
Ion	93	100		Lower	Upper
	95	84.0		0.0	167.0
	174	117.3		0.0	224.2





#41

Bromodichloromethane

Concen: 4.845 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

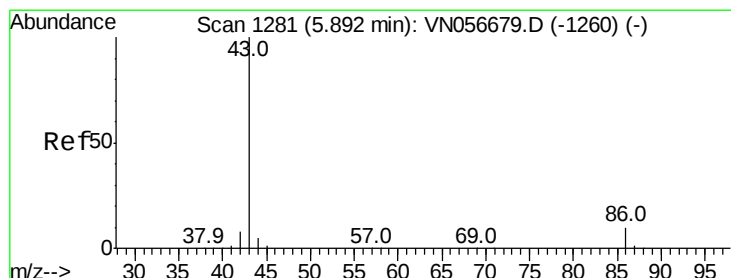
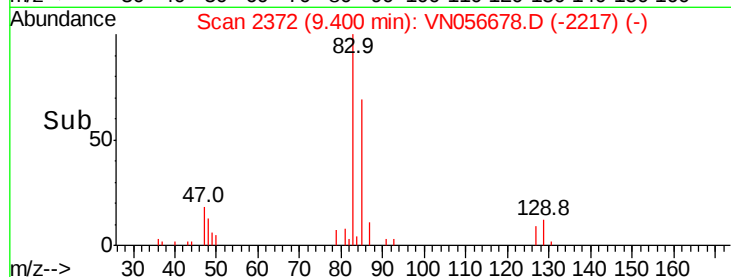
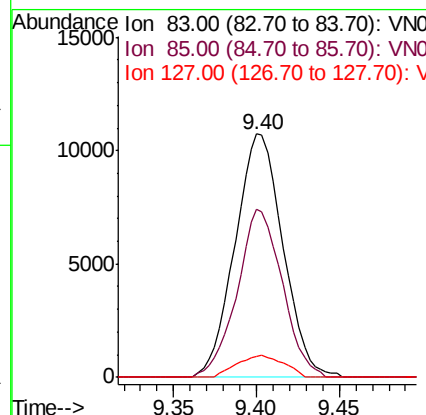
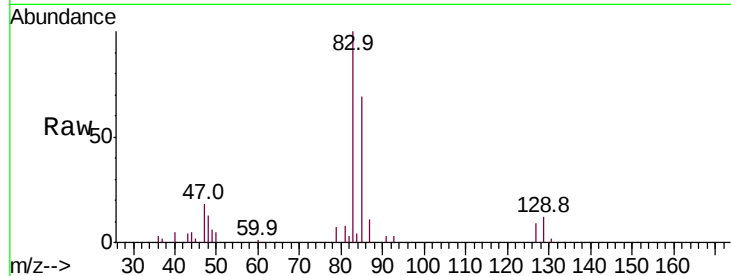
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	21556
Ion Ratio	Lower	Upper	
83	100		
85	68.8	50.1	75.1
127	8.8	7.0	10.4

Manual Integrations
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MMDadoda
7/16/2019 9:57:38 AM



#42

Vinyl Acetate

Concen: 22.042 ug/l

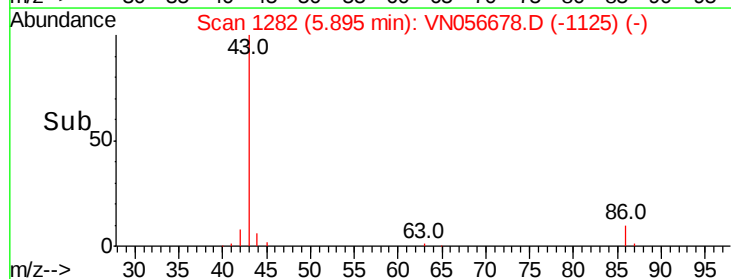
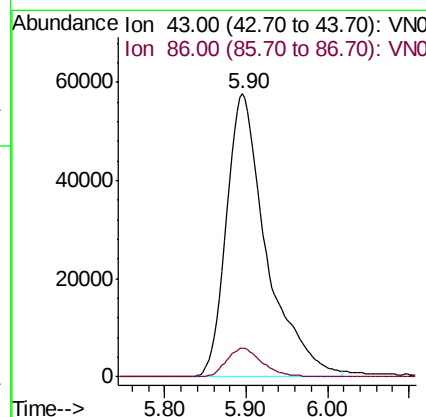
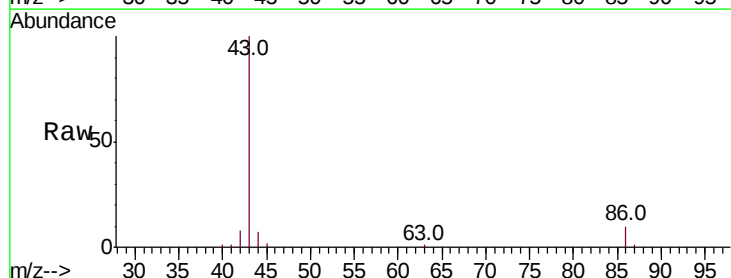
RT: 5.90 min Scan# 1282

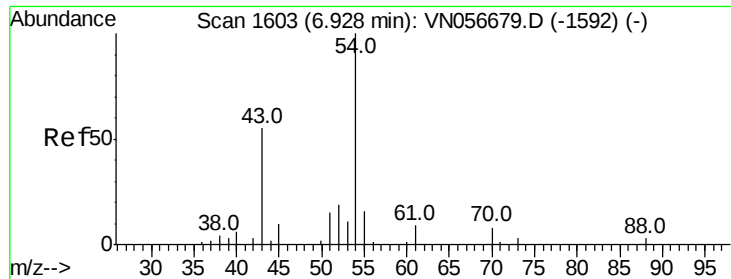
Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion:	43	Resp:	199311
Ion Ratio	Lower	Upper	
43	100		
86	9.0	7.4	11.2





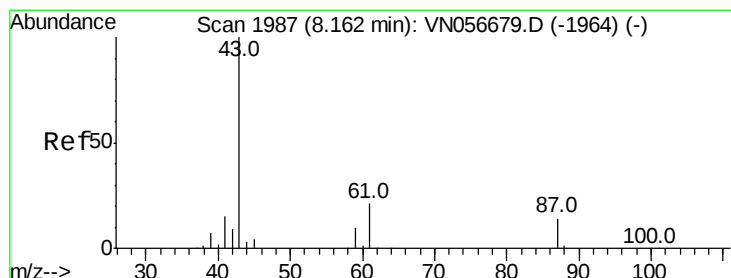
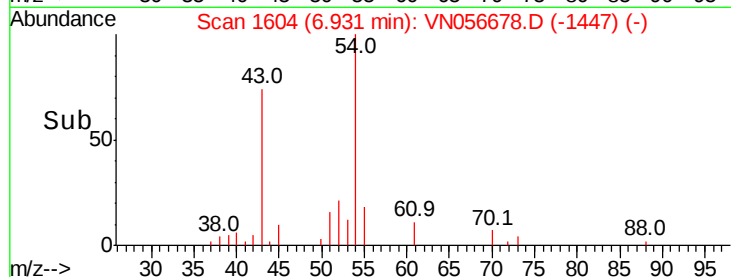
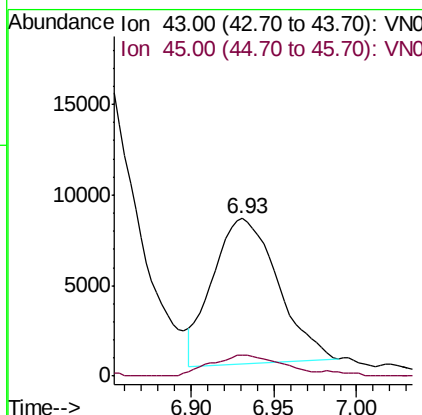
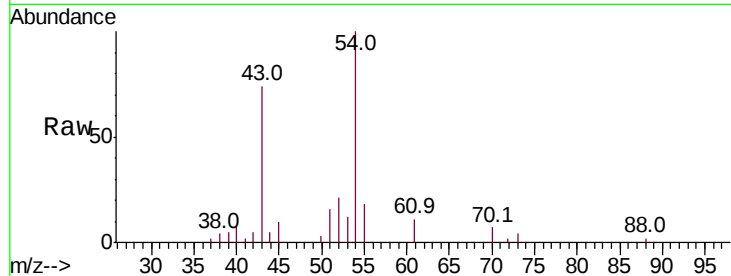
#43
Ethyl Acetate
Concen: 4.479 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 21952
Ion Ratio Lower Upper
43 100
45 15.8 11.2 16.8

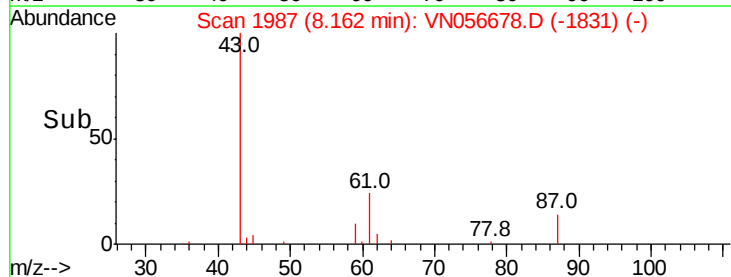
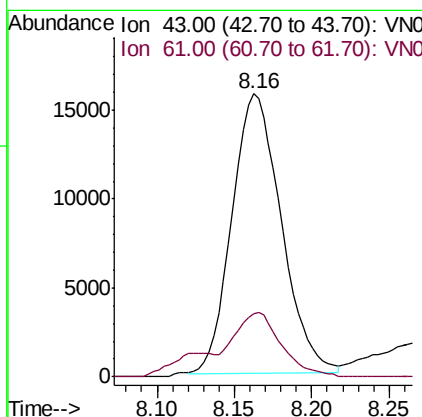
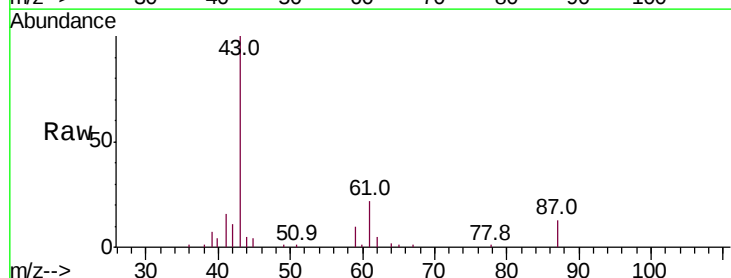
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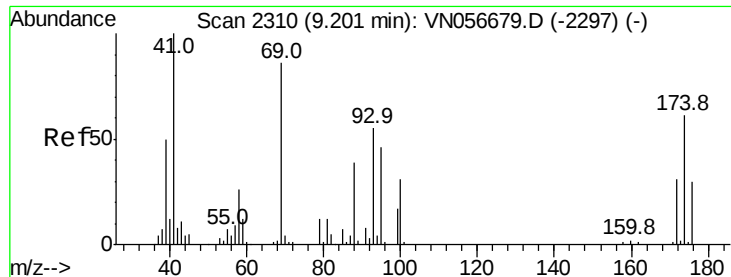
MMDadoda
7/16/2019 9:57:38 AM



#44
Isopropyl Acetate
Concen: 4.586 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion: 43 Resp: 34958
Ion Ratio Lower Upper
43 100
61 22.7 22.6 33.8





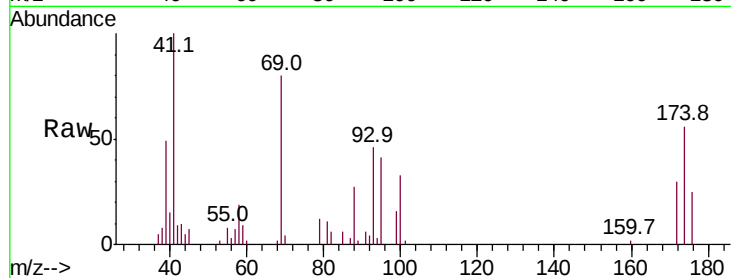
#45
 1,4-Dioxane
 Concen: 73.687 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

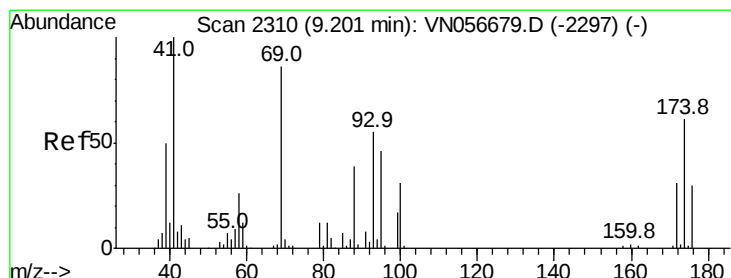
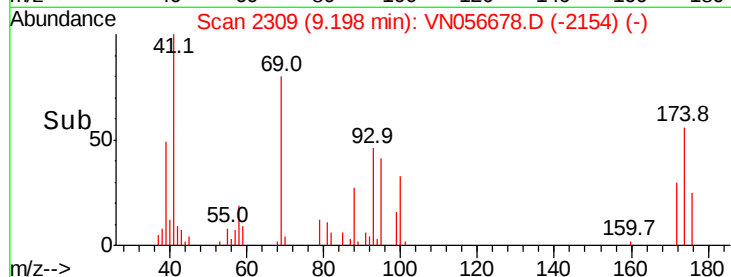
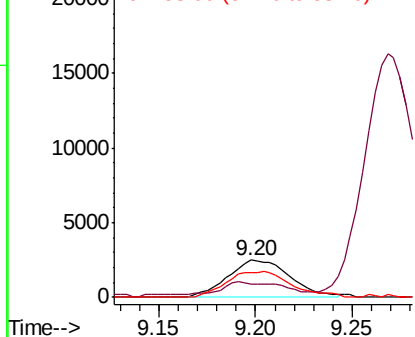
Tot Ion: 88 Resp: 5579
 Ion Ratio Lower Upper
 88 100
 43 15.5 23.0 34.6#
 58 72.1 54.6 81.8

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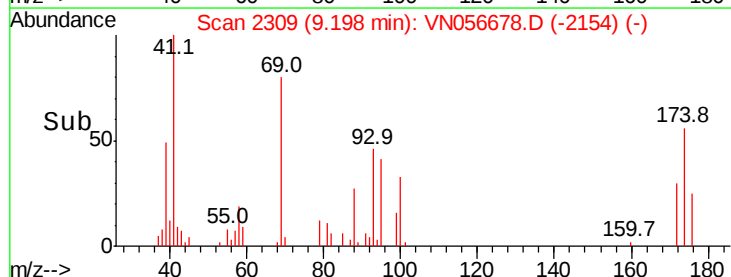
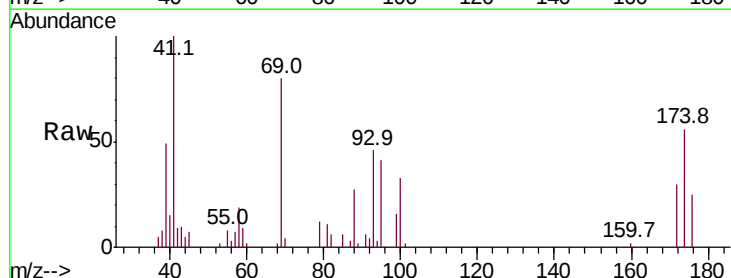
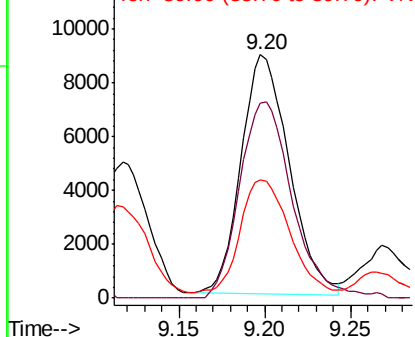
Abundance Ion 88.00 (87.70 to 88.70): VNO
 Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

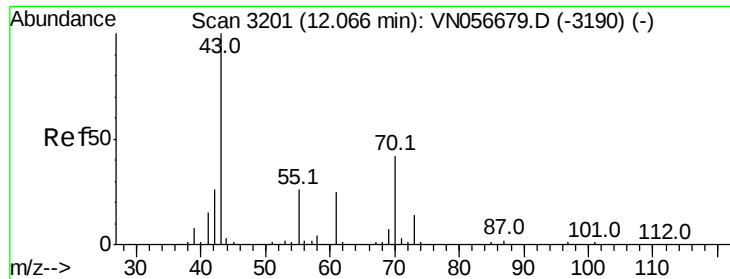


#46
 Methyl methacrylate
 Concen: 4.627 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion: 41 Resp: 17357
 Ion Ratio Lower Upper
 41 100
 69 81.9 43.0 129.0
 39 47.5 25.1 75.4

Abundance Ion 41.00 (40.70 to 41.70): VNO
 Ion 69.00 (68.70 to 69.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#47

n-amvl Acetate

Concen: 3.809 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

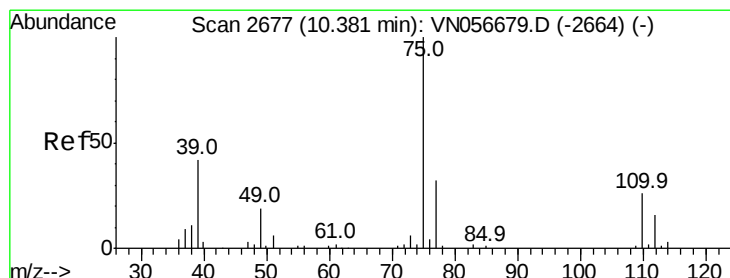
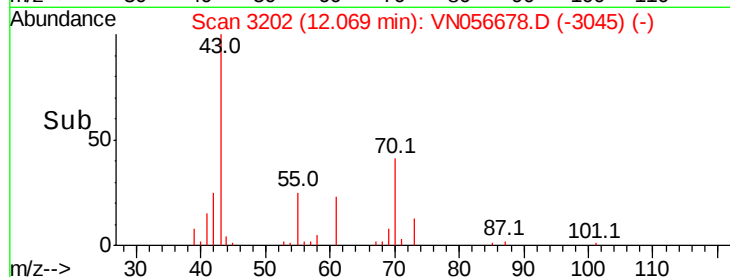
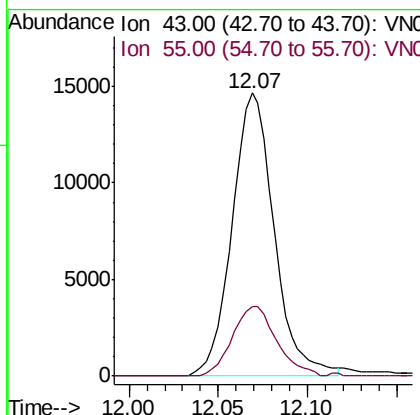
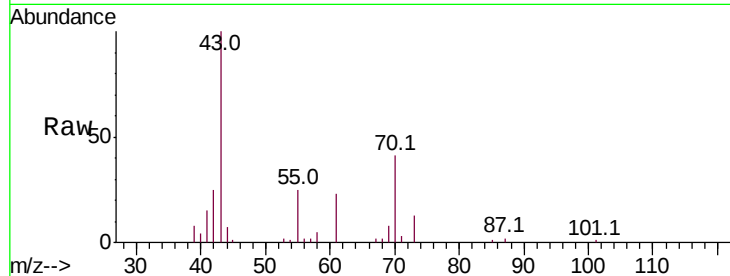
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 24055

Ion	Ratio	Lower	Upper
43	100		
55	25.8	20.7	31.1

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#48

t-1,3-Dichloropropene

Concen: 4.360 ug/l

RT: 10.38 min Scan# 2678

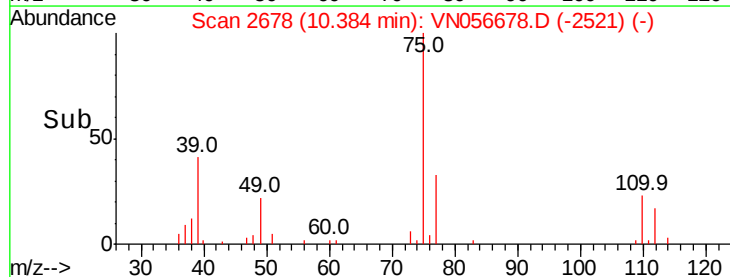
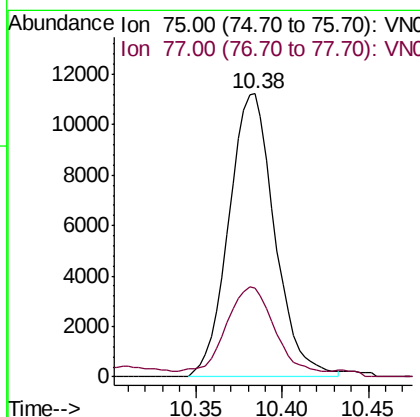
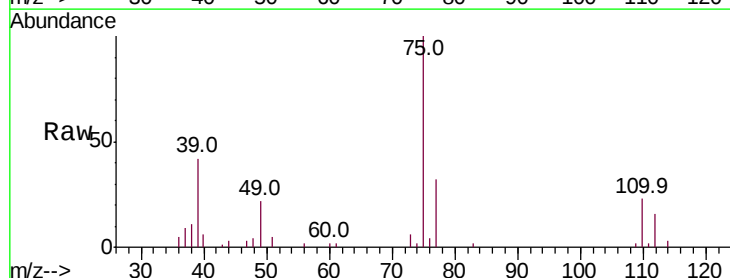
Delta R.T. 0.00 min

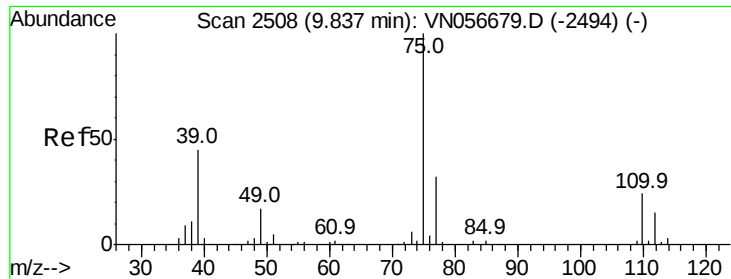
Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion: 75 Resp: 20833

Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.7	38.5





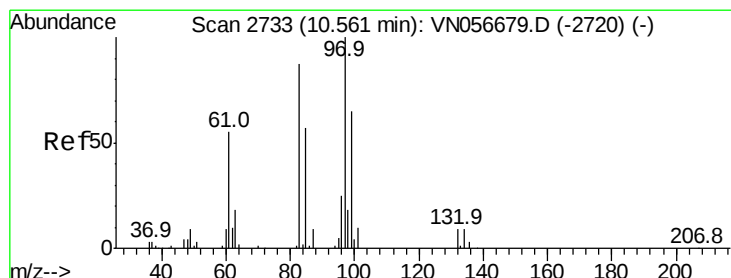
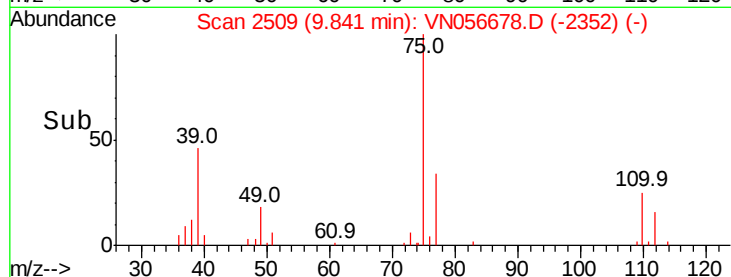
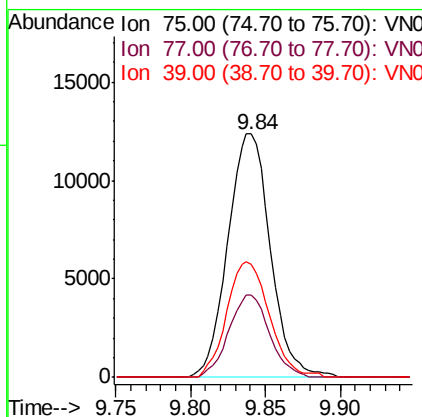
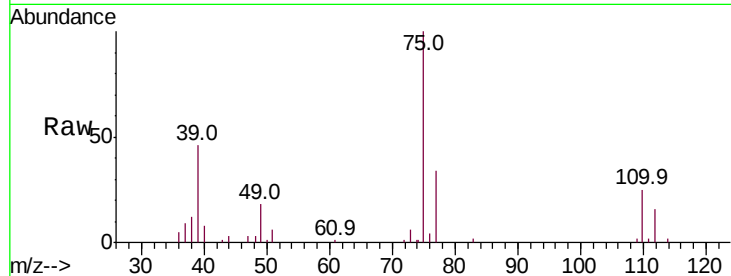
#49
 cis-1,3-Dichloropropene
 Concen: 4.455 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.0	26.0	39.0
39	46.4	36.2	54.4

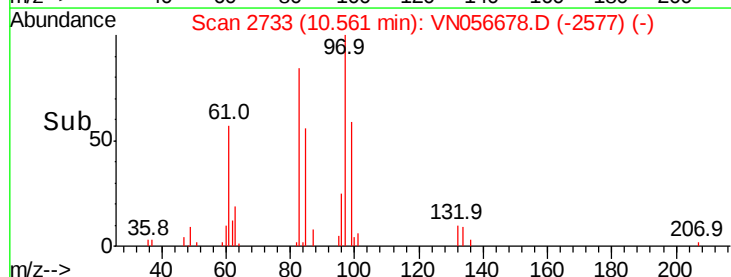
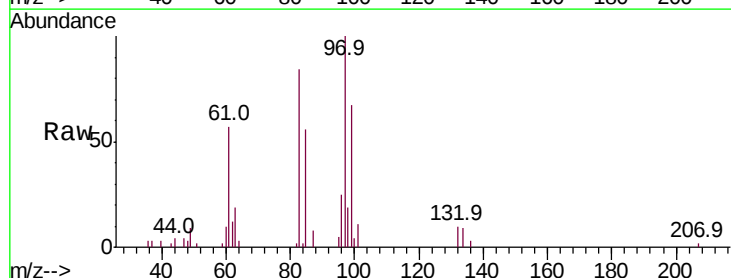
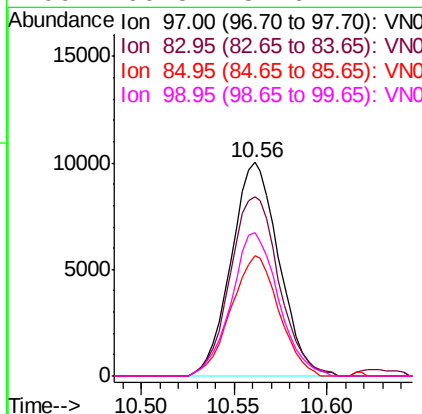
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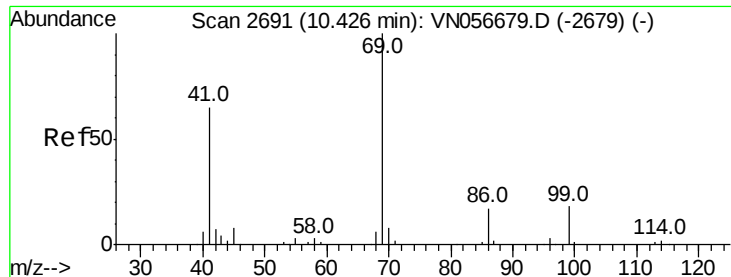
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#50
 1,1,2-Trichloroethane
 Concen: 5.086 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.1	69.2	103.8
85	56.3	45.3	67.9
99	66.8	51.6	77.4





#51

Ethyl methacrylate

Concen: 4.443 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

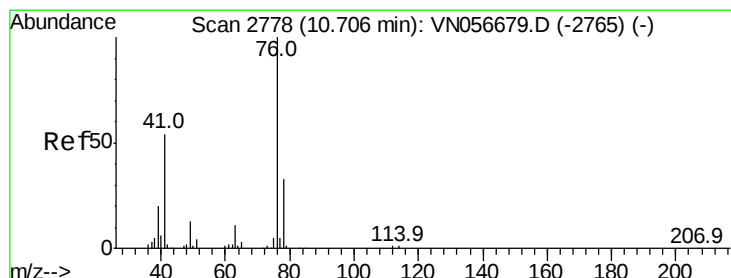
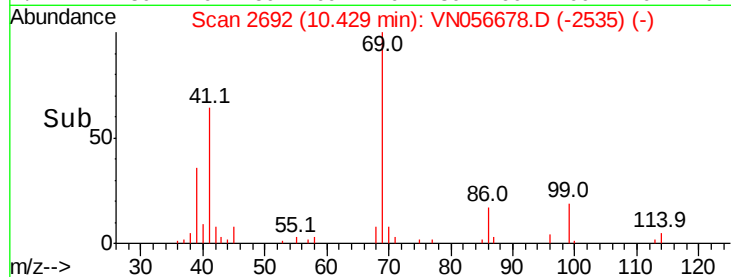
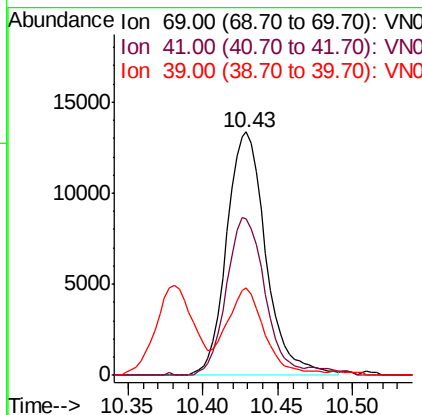
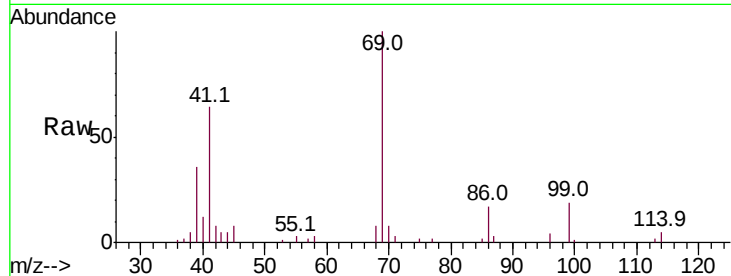
ClientSampleId :

VSTDIC005

Tot Ion:	69	Resp:	24405
Ion Ratio	Lower	Upper	
69	100		
41	64.2	32.8	98.3
39	34.4	15.4	46.2

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#52

1,3-Dichloropropane

Concen: 4.891 ug/l

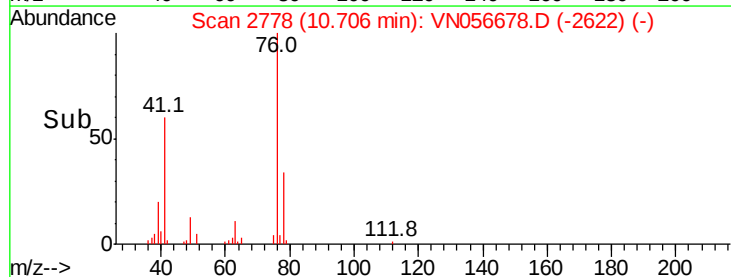
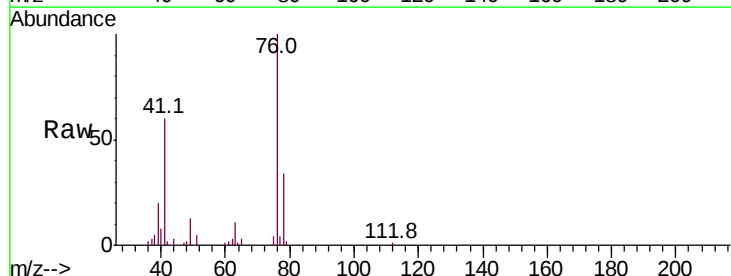
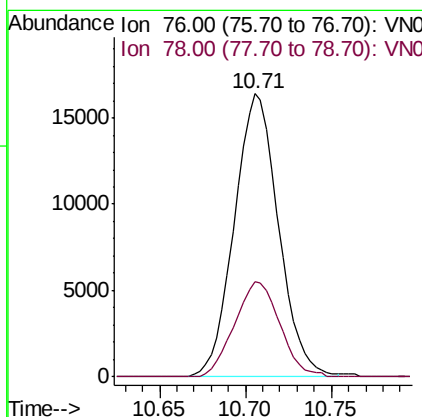
RT: 10.71 min Scan# 2778

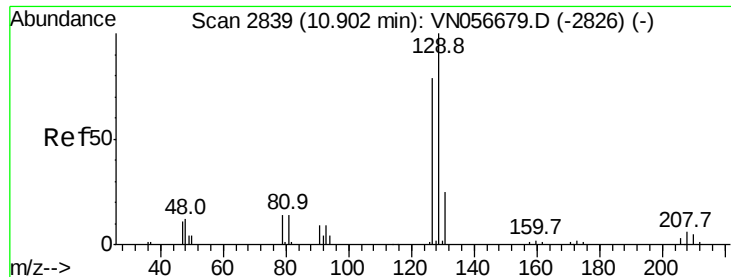
Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion:	76	Resp:	29304
Ion Ratio	Lower	Upper	
76	100		
78	34.4	0.0	63.6





#53

Dibromochloromethane

Concen: 4.605 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:129 Resp: 15962

Ion Ratio Lower Upper

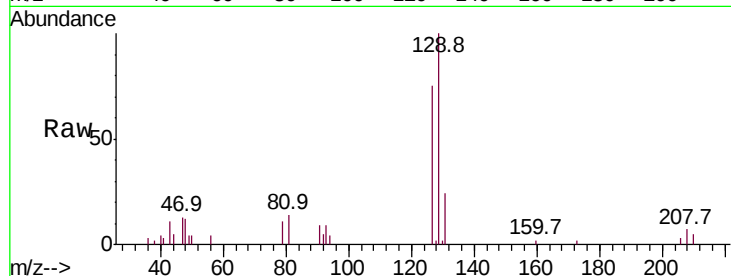
129 100

127 78.2 38.7 116.1

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

8000

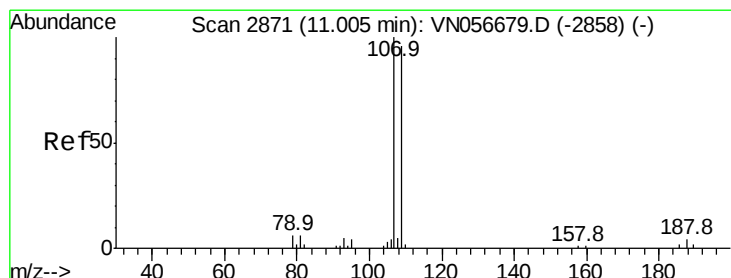
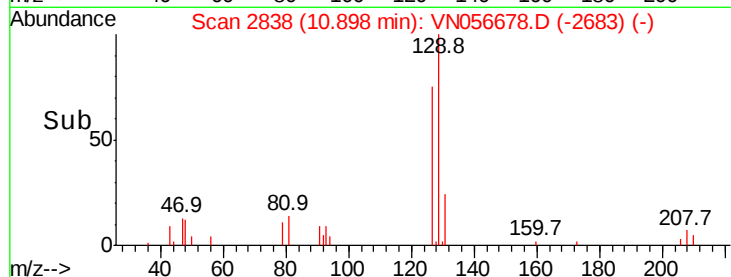
6000

4000

2000

0

Time-->



#54

1,2-Dibromoethane

Concen: 4.876 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN056678.D

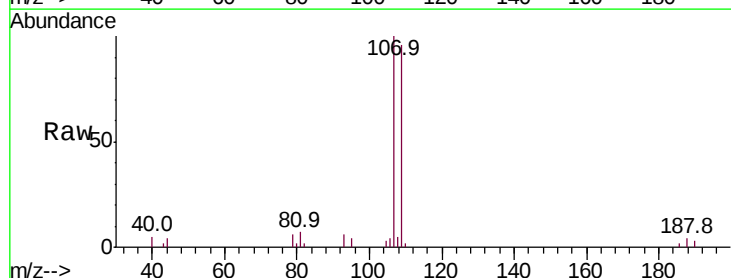
Acq: 12 Jul 2019 10:08

Tgt Ion:107 Resp: 17869

Ion Ratio Lower Upper

107 100

109 93.6 77.9 116.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

11.00

10000

8000

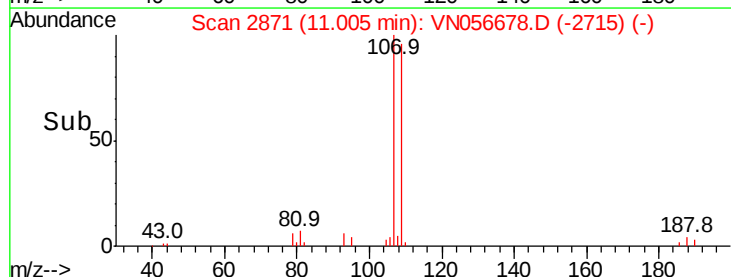
6000

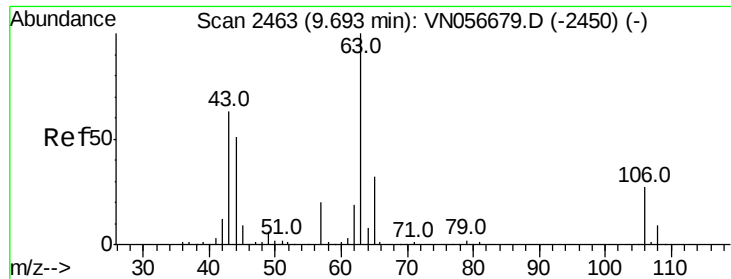
4000

2000

0

Time-->





#55

2-Chloroethyl vinyl ether

Concen: 20.607 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

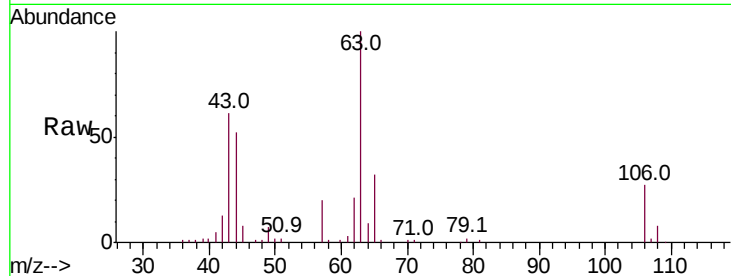
ClientSampleId :

VSTDIC005

Tot Ion:	63	Resp:	57165
Ion Ratio	Lower	Upper	
63	100		
65	31.7	25.2	37.8
106	26.0	21.6	32.4

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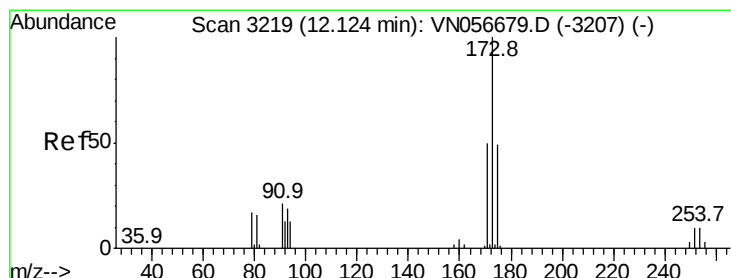
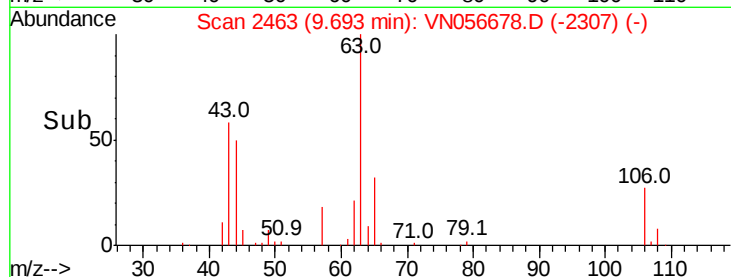
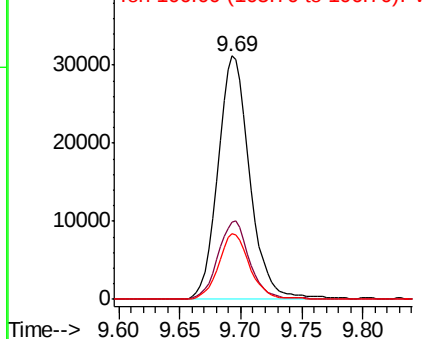


Abundance

Ion 63.00 (62.70 to 63.70): VN056679.D (-2450) (-)

Ion 65.00 (64.70 to 65.70): VN056679.D (-2450) (-)

Ion 106.00 (105.70 to 106.70): VN056679.D (-2450) (-)



#56

Bromoform

Concen: 4.332 ug/l

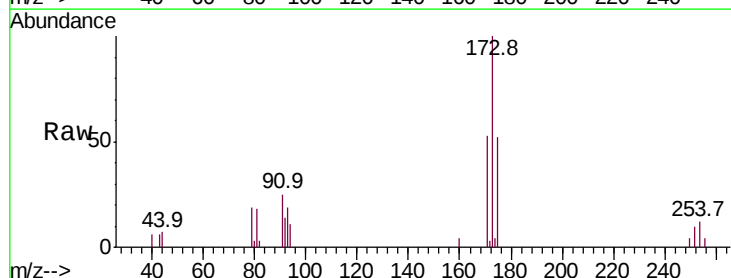
RT: 12.12 min Scan# 3219

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion:	173	Resp:	10994
Ion Ratio	Lower	Upper	
173	100		
175	50.1	39.7	59.5
254	7.1	7.8	11.8#

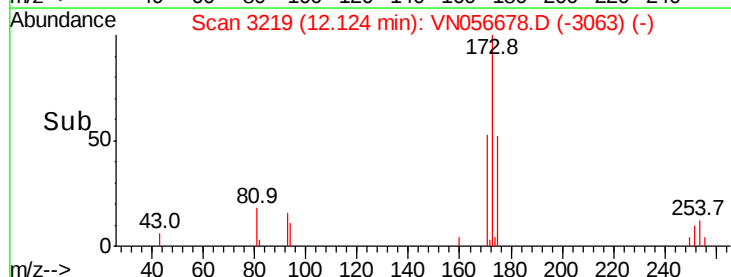
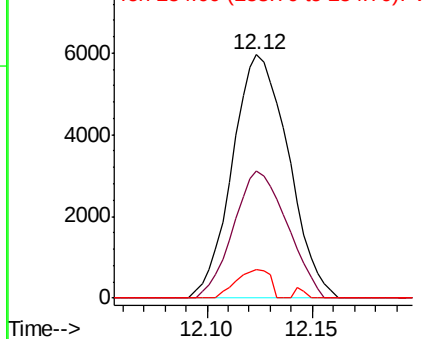


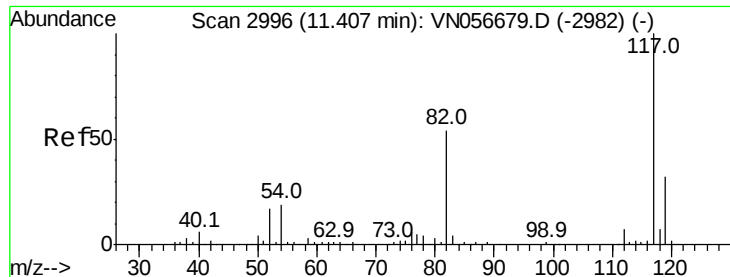
Abundance

Ion 173.00 (172.70 to 173.70): VN056679.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN056679.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN056679.D (-3207) (-)





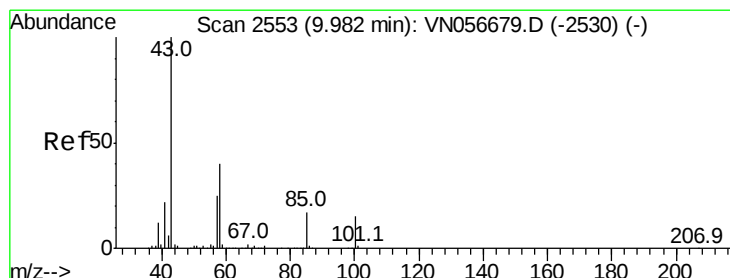
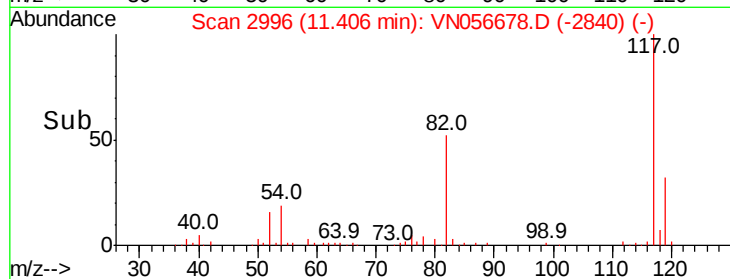
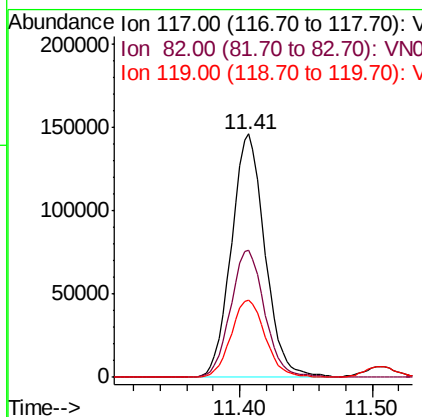
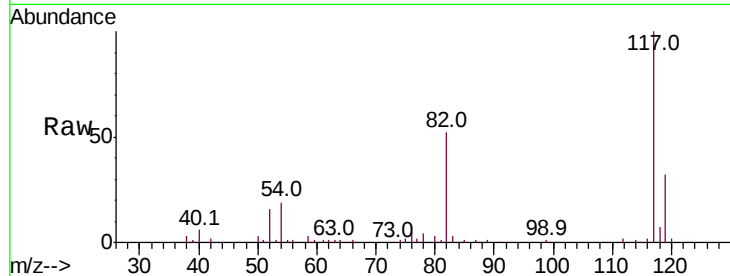
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	43.0	64.4
119	32.4	26.0	39.0

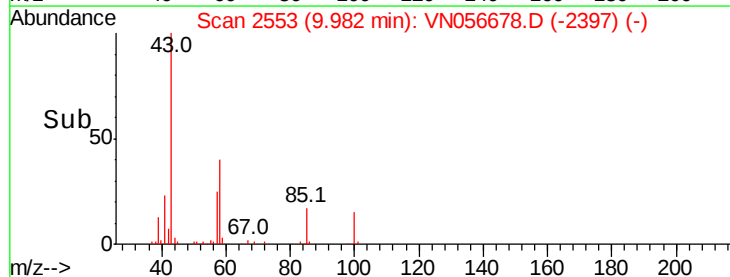
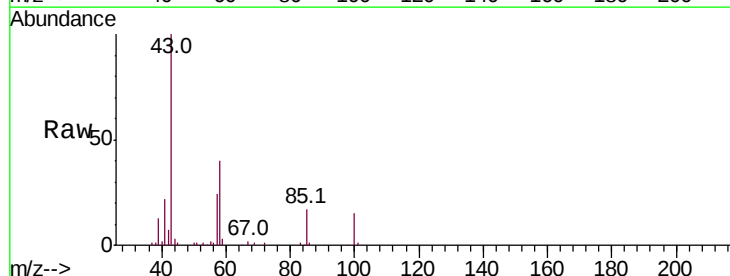
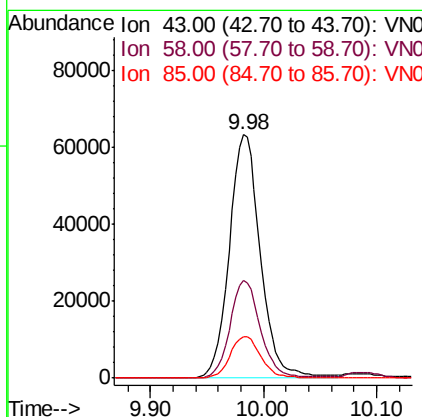
Manual Integrations
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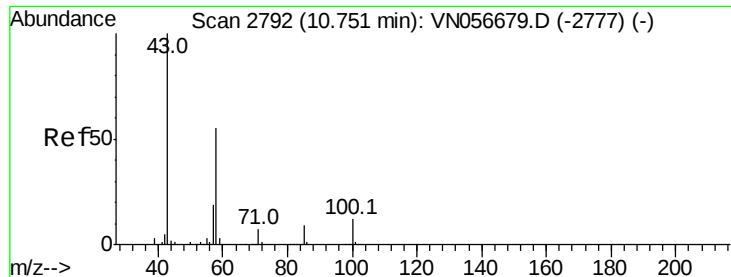
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#58
4-Methyl-2-Pentanone
Concen: 25.524 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.9	47.9
85	17.0	14.2	21.4





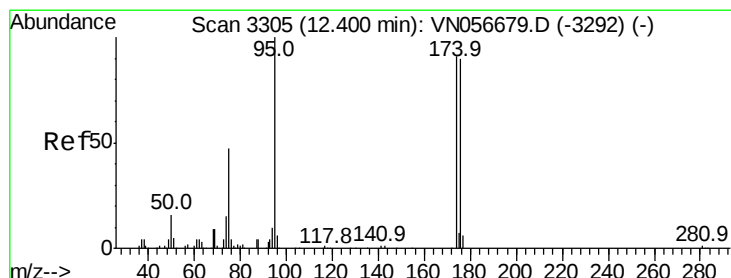
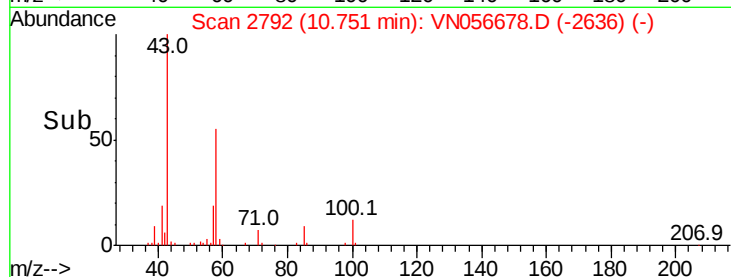
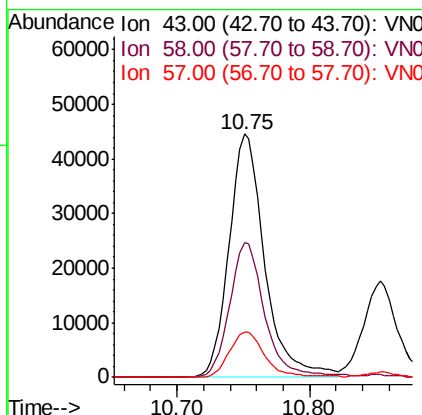
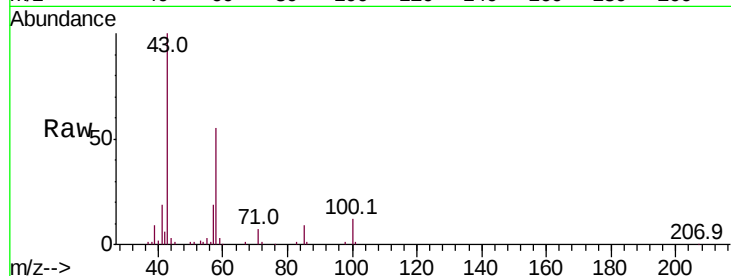
#59
2-Hexanone
Concen: 23.607 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.3	44.4	66.6
57	18.3	15.2	22.8

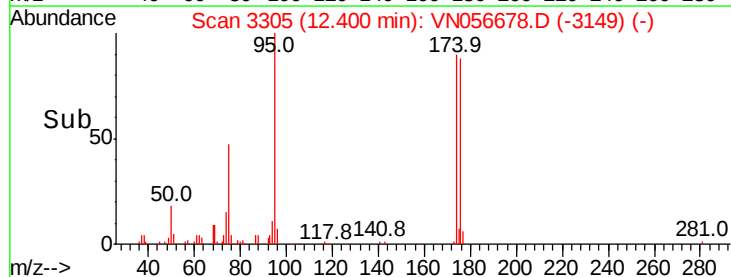
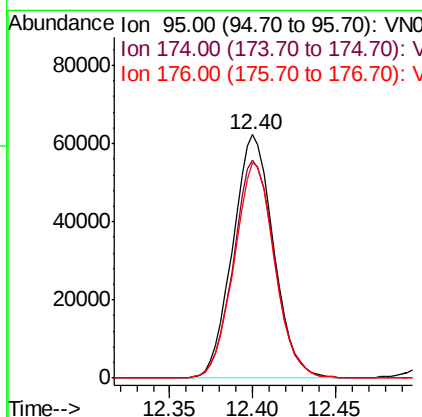
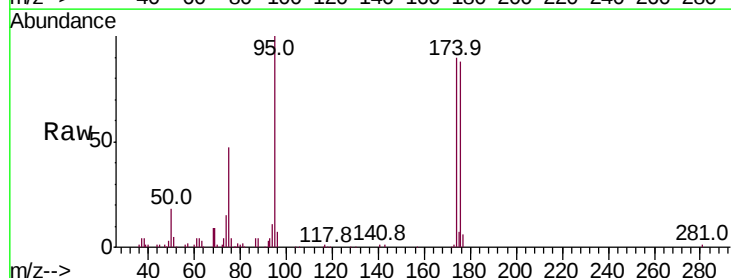
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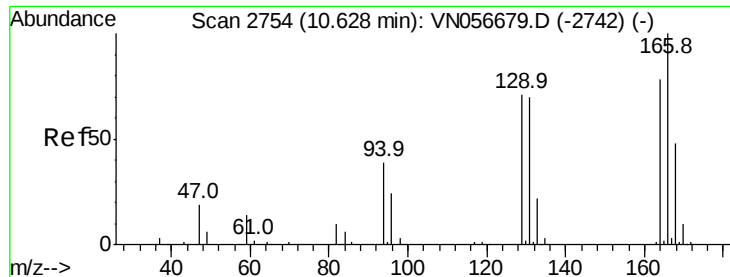
MMDadoda
7/16/2019 9:57:38 AM



#60
4-Bromofluorobenzene
Concen: 26.802 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.5	72.6	108.8
176	87.8	71.0	106.6





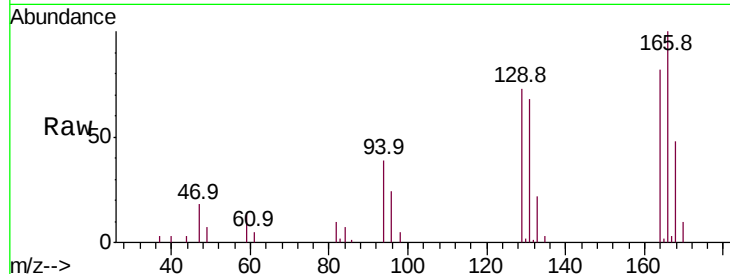
#61
Tetrachloroethene
Concen: 5.556 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
164	100		
166	122.0	102.3	153.5
129	88.4	72.6	108.8
131	82.5	71.4	107.2

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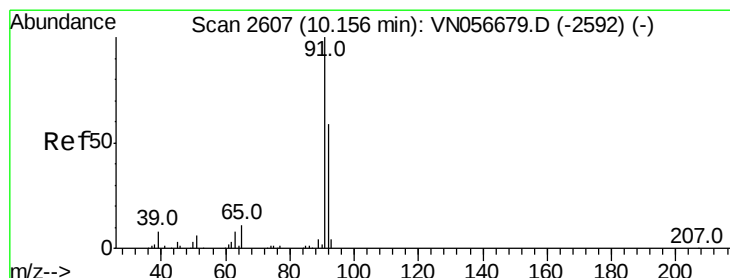
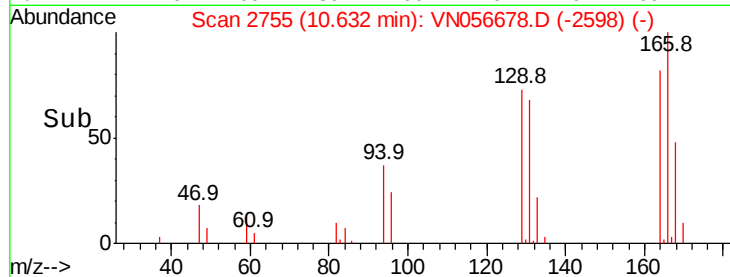
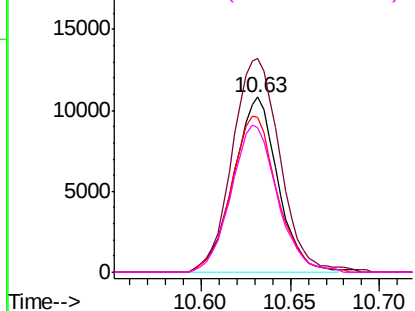
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

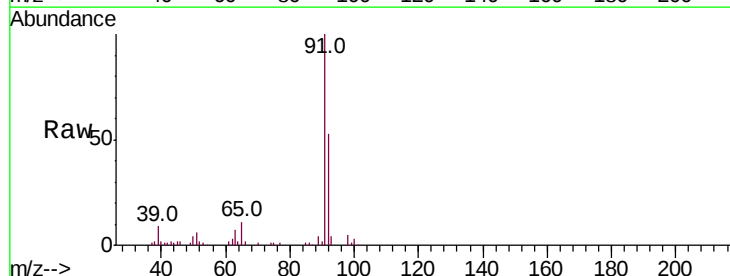
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62
Toluene
Concen: 5.271 ug/l
RT: 10.15 min Scan# 2606
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

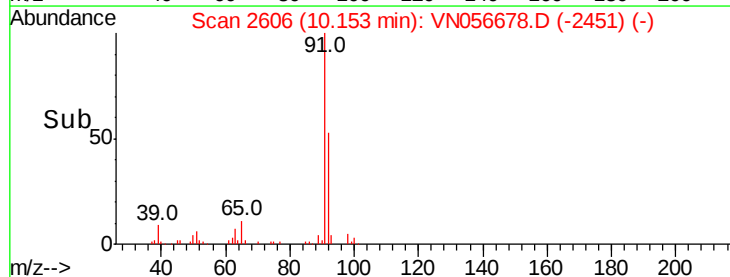
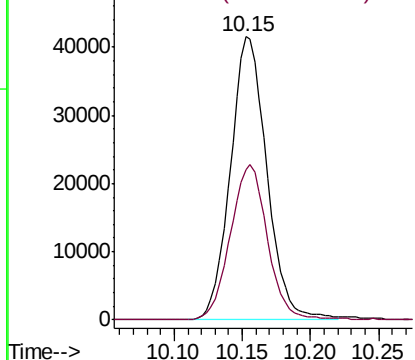
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.6	46.7	70.1

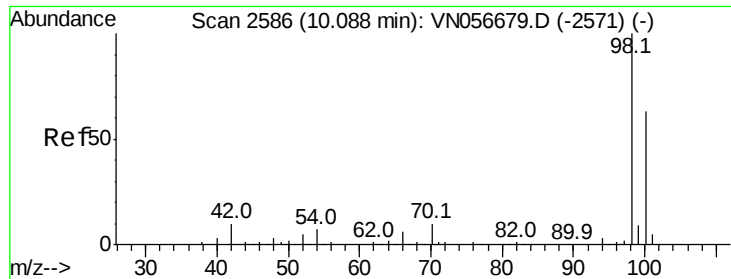


Abundance

Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO





#63

Toluene-d8

Concen: 31.016 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 98 Resp: 370393

Ion Ratio Lower Upper

98 100

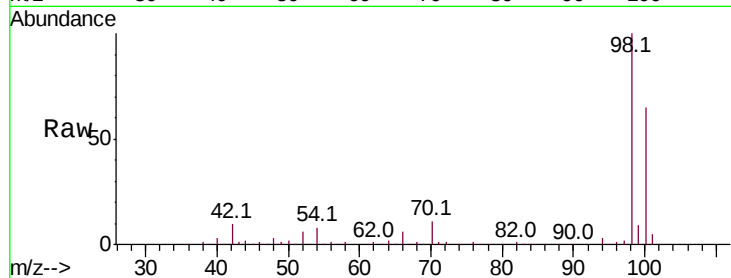
100 64.0 51.1 76.7

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Abundance Ion 98.00 (97.70 to 98.70): VN056679.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN056679.D (-2571) (-)

10.09

200000

150000

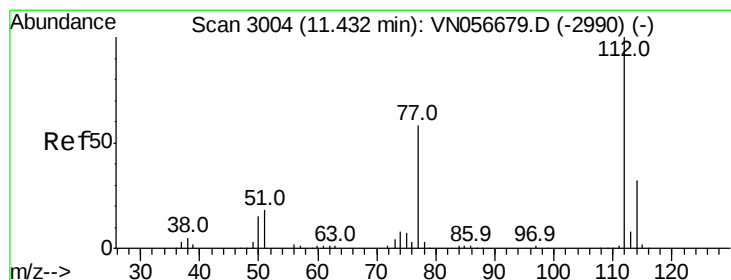
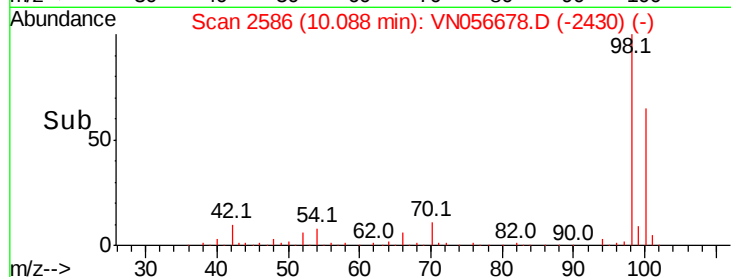
100000

50000

0

10.00 10.10 10.20

Time-->



#64

Chlorobenzene

Concen: 5.077 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN056678.D

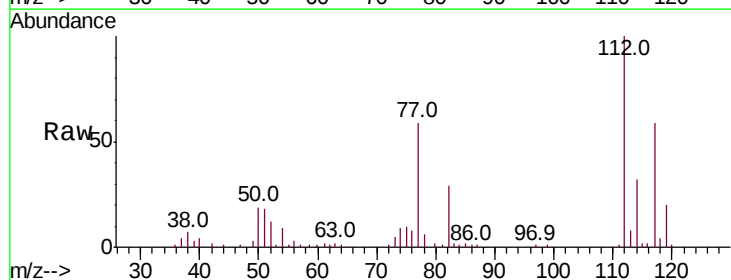
Acq: 12 Jul 2019 10:08

Tgt Ion: 112 Resp: 44871

Ion Ratio Lower Upper

112 100

114 31.9 25.3 37.9



Abundance Ion 112.00 (111.70 to 112.70): VN056679.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN056679.D (-2990) (-)

11.43

25000

20000

15000

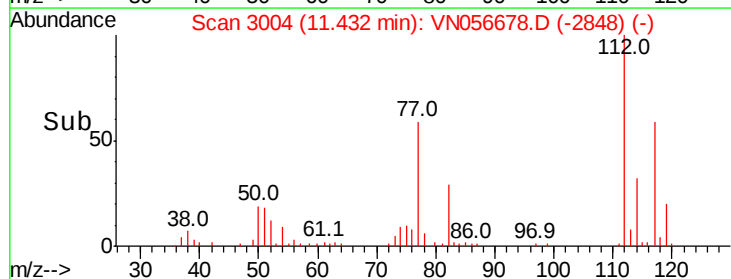
10000

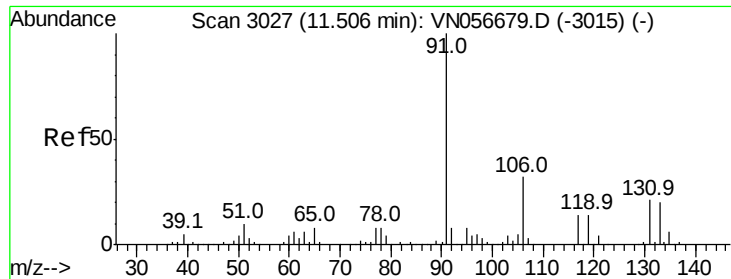
5000

0

11.35 11.40 11.45 11.50

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 5.033 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

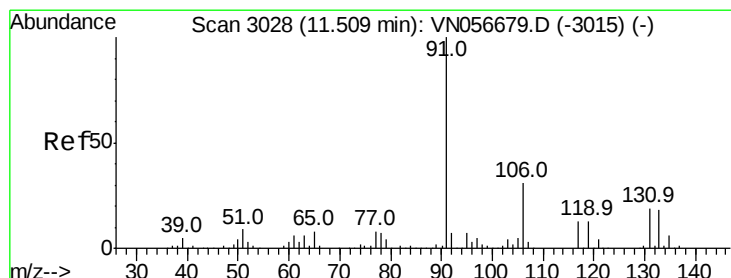
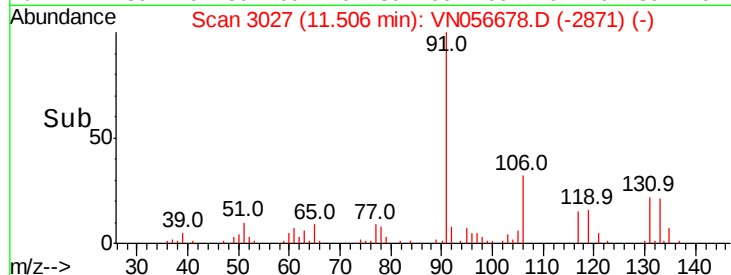
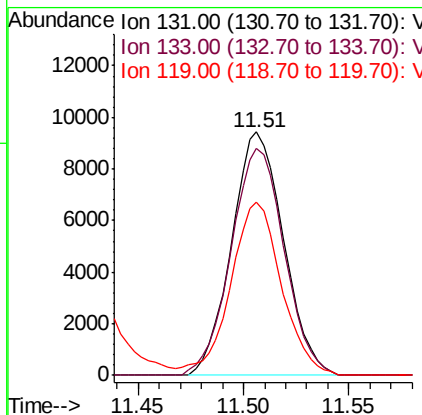
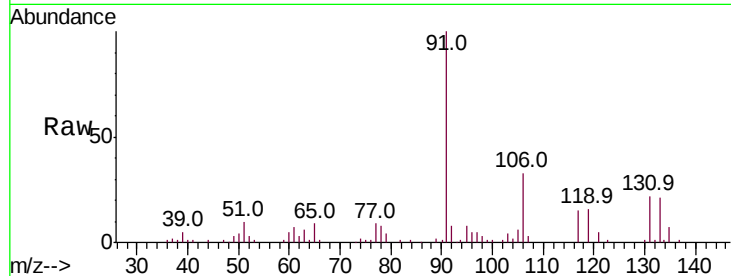
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
131	100		
133	95.7	0.0	191.4
119	69.8	0.0	133.4

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#66

Ethyl Benzene

Concen: 4.855 ug/l

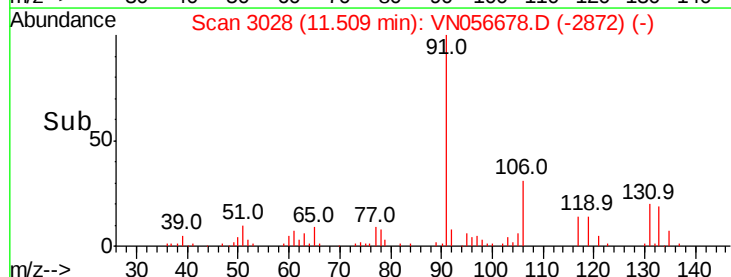
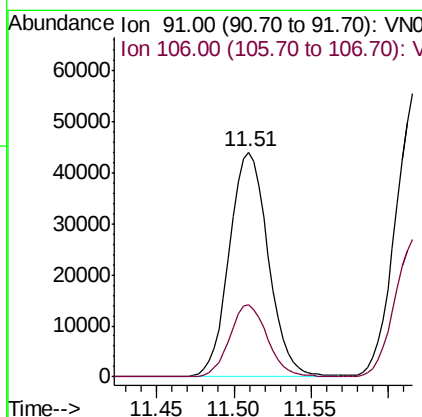
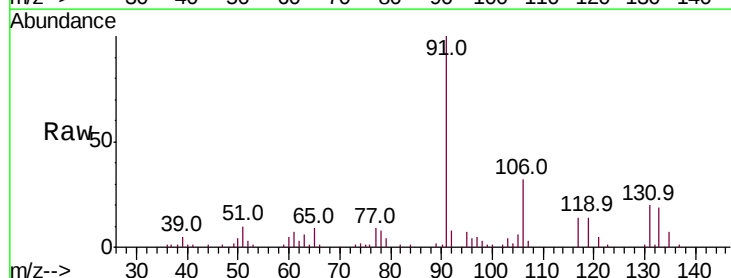
RT: 11.51 min Scan# 3028

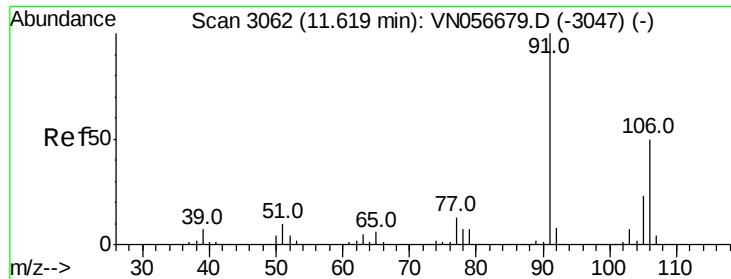
Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.1	37.7





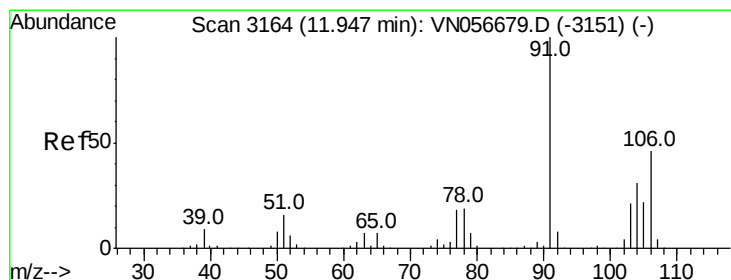
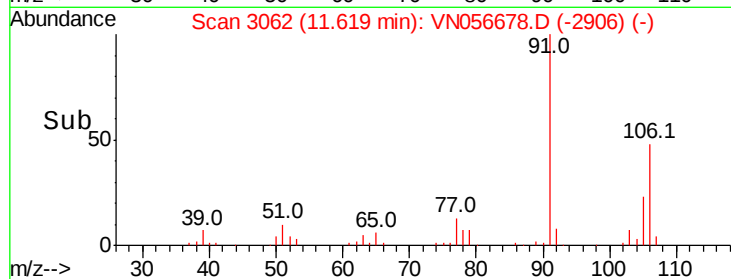
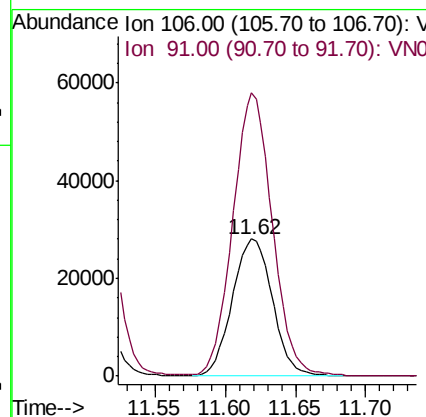
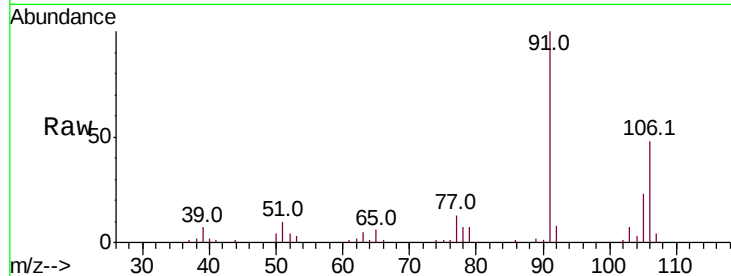
#67
m/p-Xylenes
Concen: 9.484 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 55992
Ion Ratio Lower Upper
106 100
91 203.5 161.8 242.8

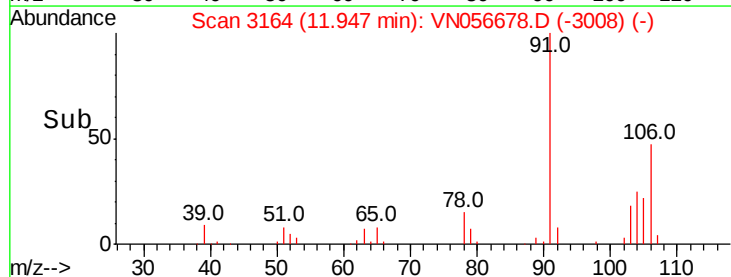
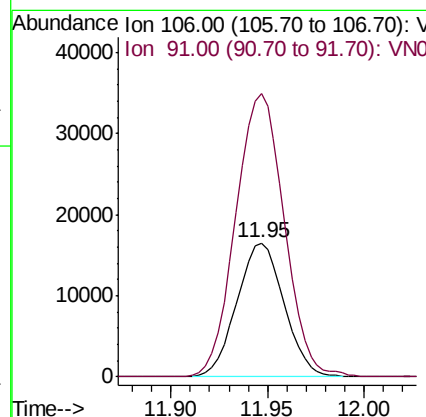
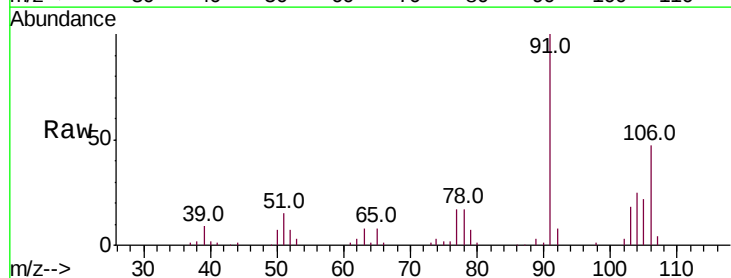
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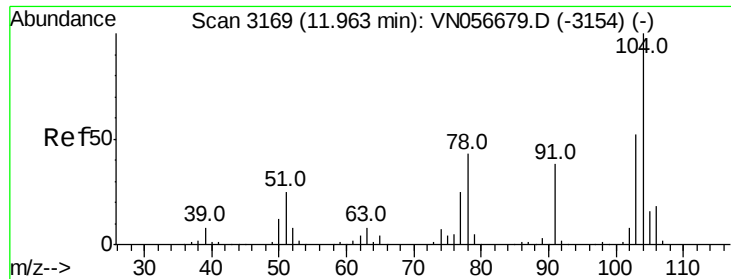
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#68
o-Xylene
Concen: 4.831 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion:106 Resp: 27988
Ion Ratio Lower Upper
106 100
91 217.6 108.1 324.2





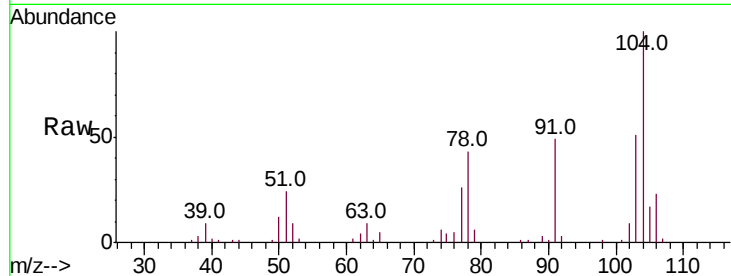
#69
Stvrene
Concen: 4.378 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.3	38.7	58.1
103	56.2	45.0	67.4

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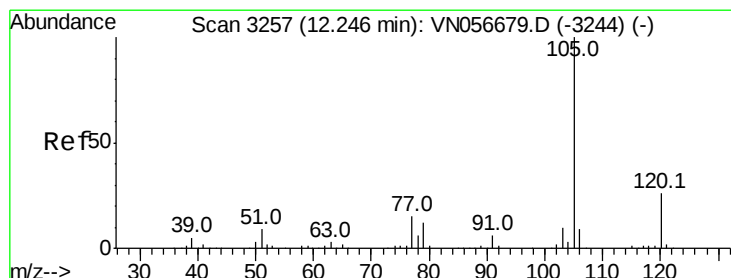
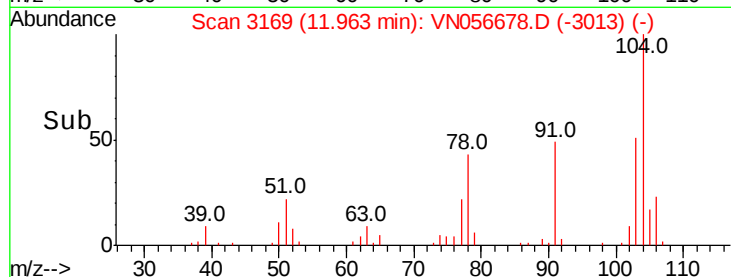
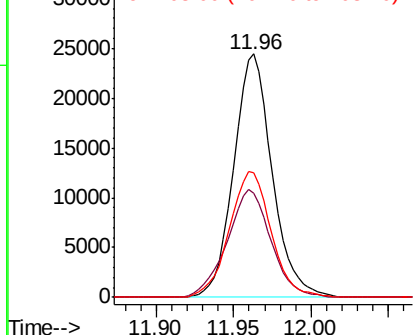


Abundance

Ion 104.00 (103.70 to 104.70): V

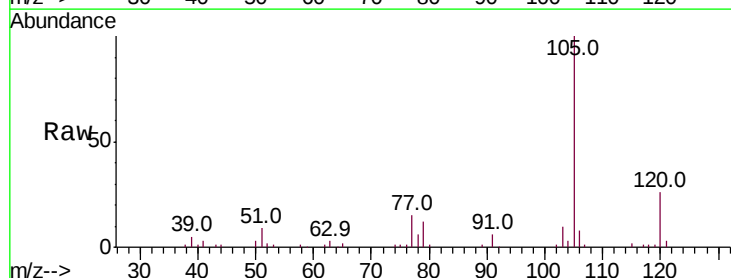
Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#70
Isopropylbenzene
Concen: 4.988 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

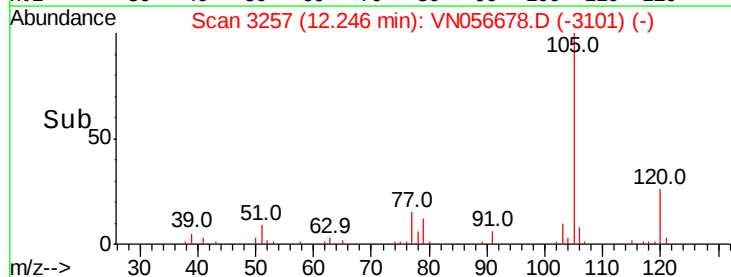
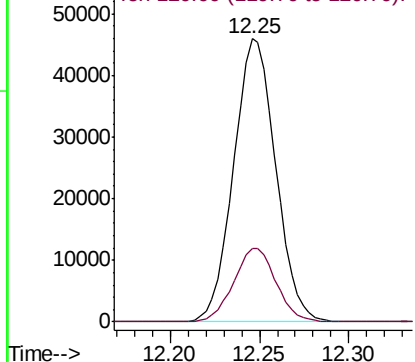
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.0	18.6	34.5

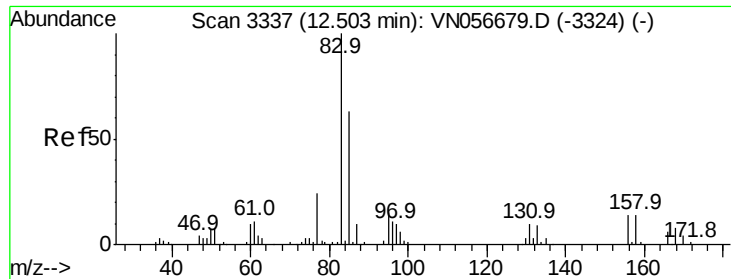


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





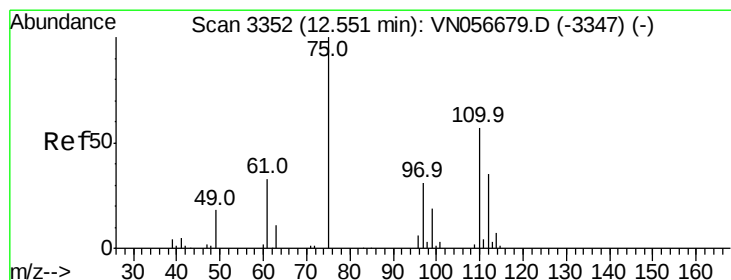
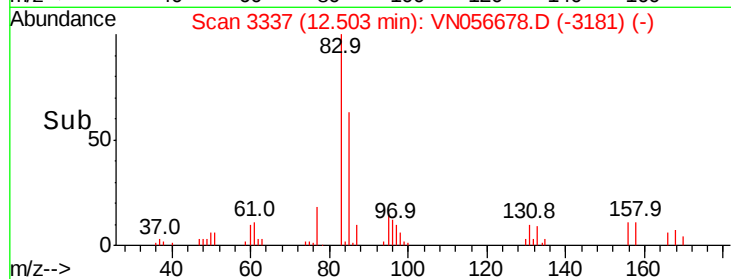
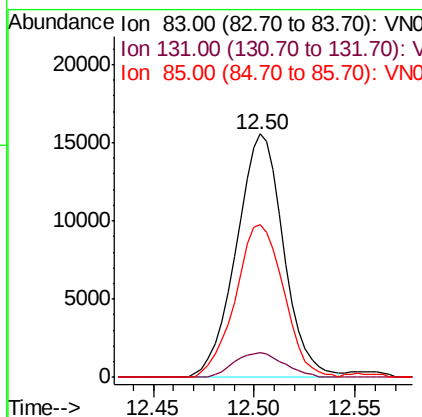
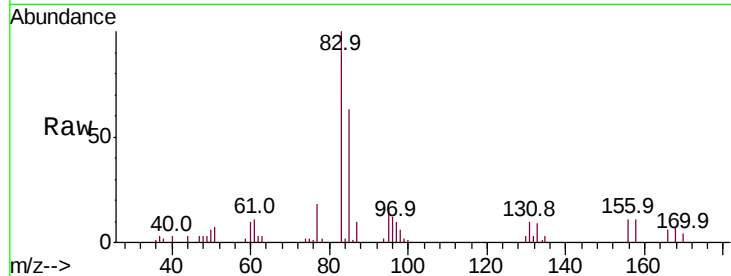
#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.114 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.1	15.3
85	64.2	31.9	95.7

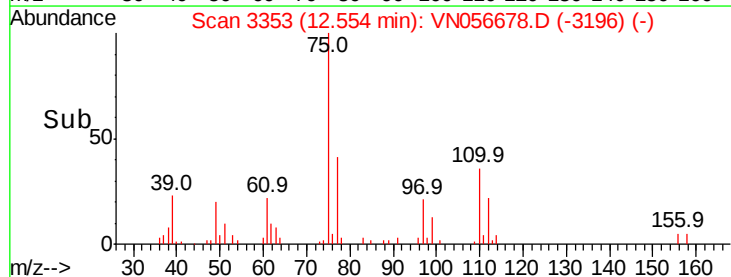
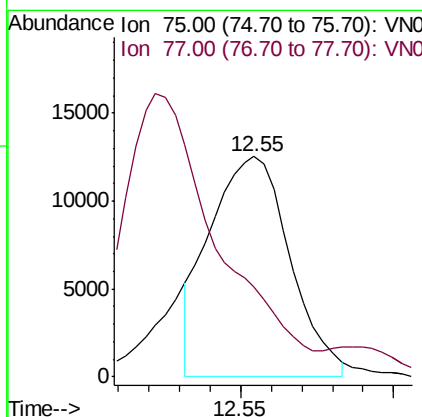
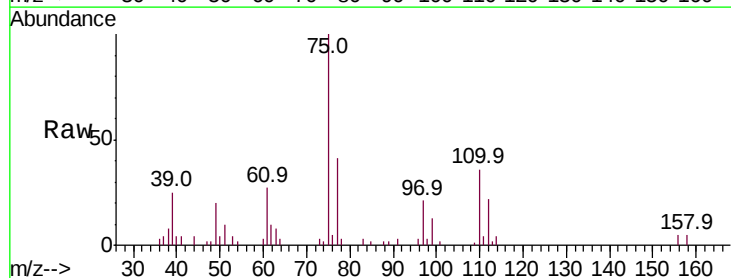
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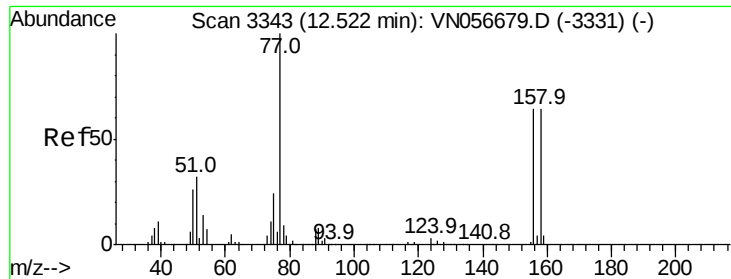
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#72
 1,2,3-Trichloropropane
 Concen: 5.450 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
75	100		
77	154.8	0.0	352.2





#73

Bromobenzene

Concen: 4.706 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 18436

Ion Ratio Lower Upper

156 100

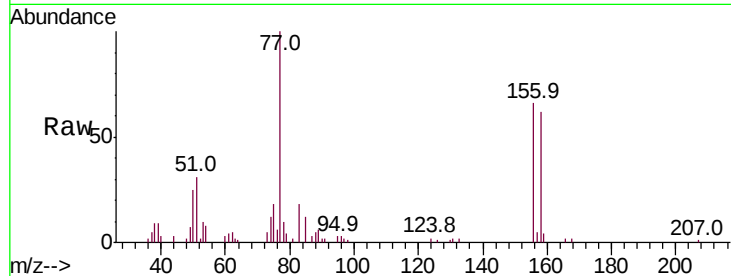
77 191.6 0.0 381.8

158 97.3 0.0 195.8

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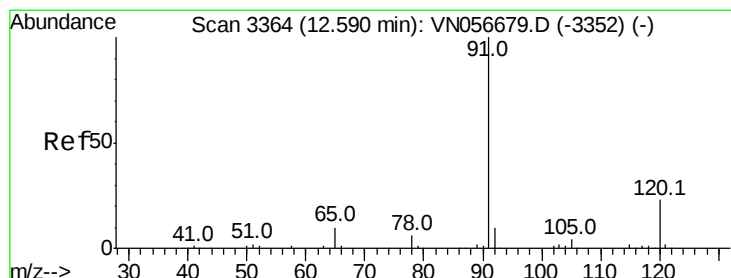
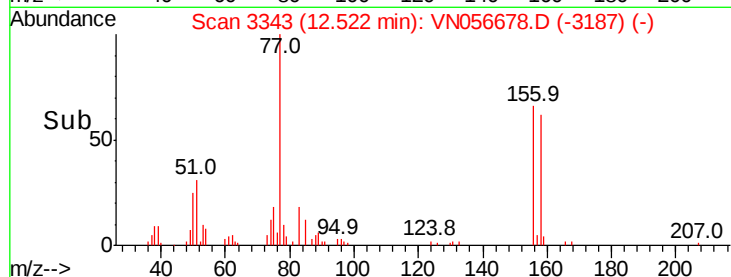
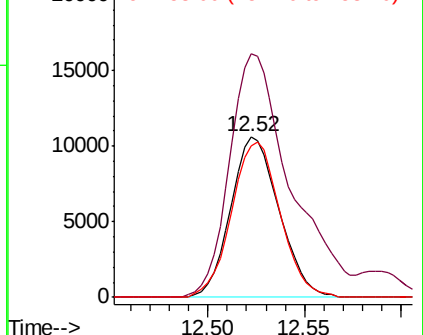
7/16/2019 9:57:38 AM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.432 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056678.D

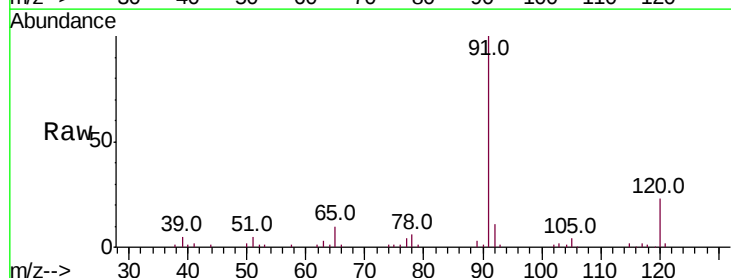
Acq: 12 Jul 2019 10:08

Tgt Ion: 91 Resp: 76672

Ion Ratio Lower Upper

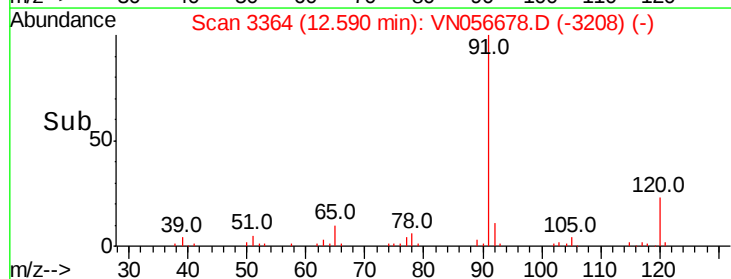
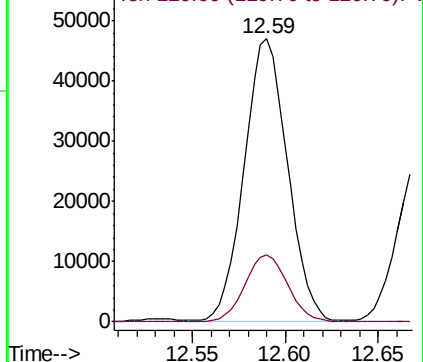
91 100

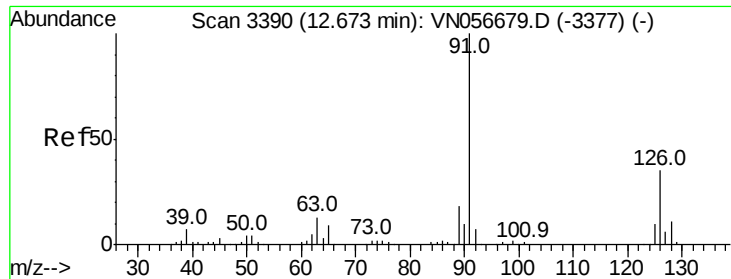
120 23.2 0.0 45.6



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 4.765 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 49145

Ion Ratio Lower Upper

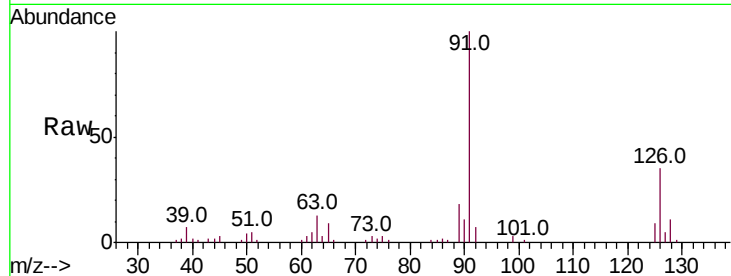
91 100

126 35.2 0.0 69.8

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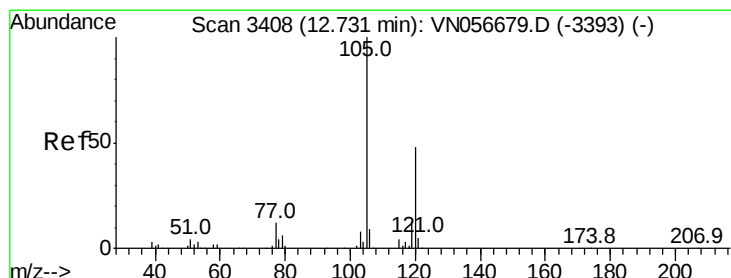
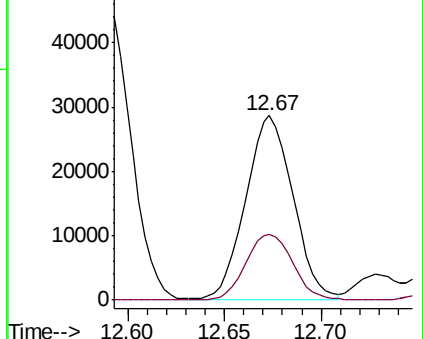
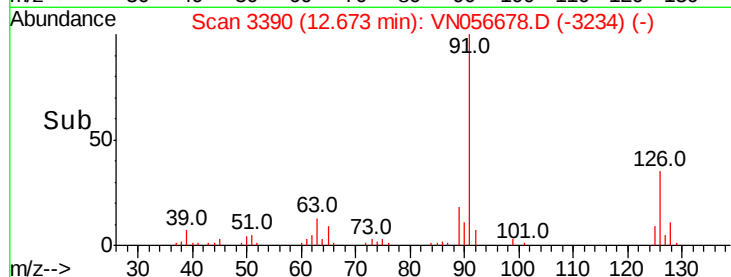
MMDadoda

7/16/2019 9:57:38 AM



Abundance Ion 91.00 (90.70 to 91.70): VN056679.D (-3377) (-)

Ion 126.00 (125.70 to 126.70): VN056679.D (-3377) (-)



#76

1,3,5-Trimethylbenzene

Concen: 4.722 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056678.D

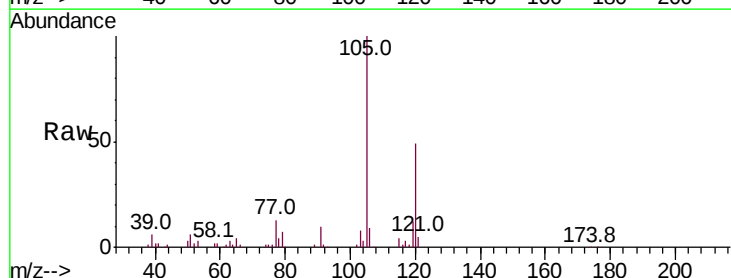
Acq: 12 Jul 2019 10:08

Tgt Ion: 105 Resp: 61037

Ion Ratio Lower Upper

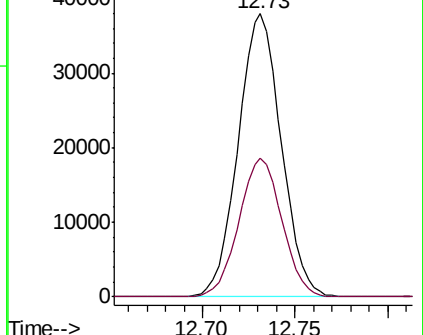
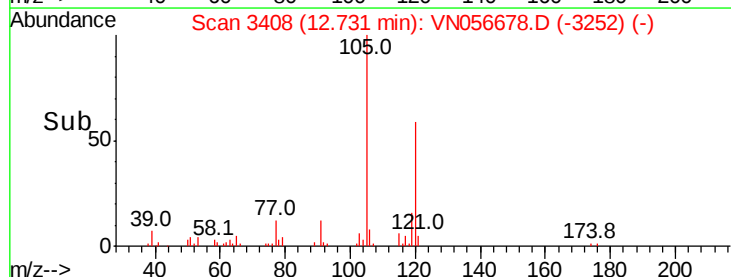
105 100

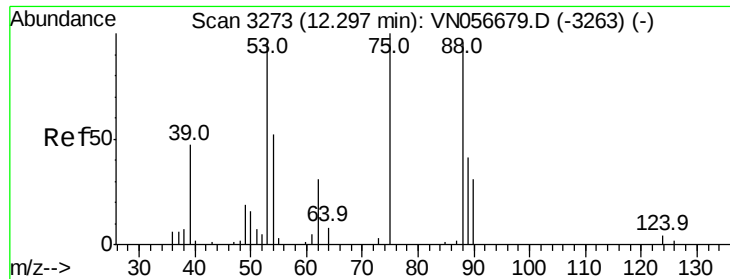
120 48.9 0.0 97.6



Abundance Ion 105.00 (104.70 to 105.70): VN056679.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN056679.D (-3393) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 3.541 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 4820

Ion Ratio Lower Upper

75 100

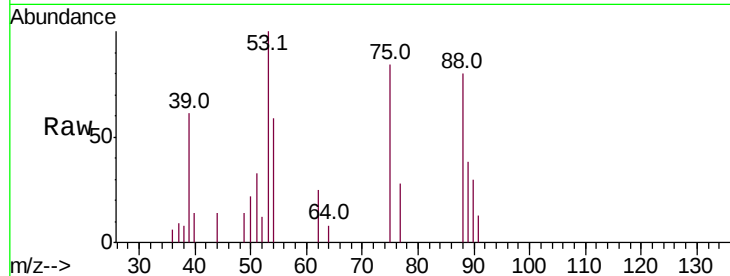
53 114.1 48.6 145.8

89 45.5 21.3 64.0

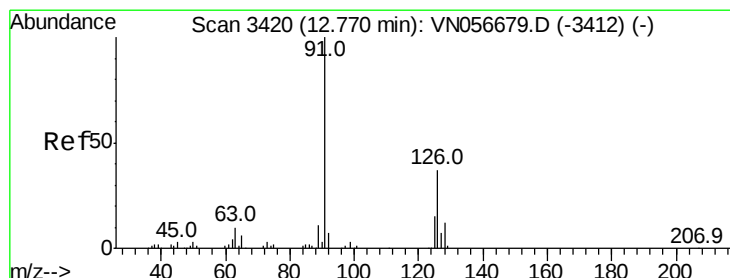
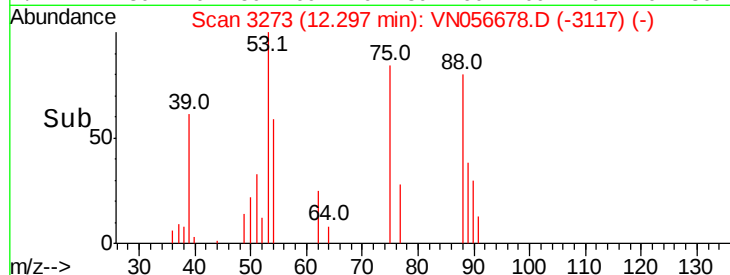
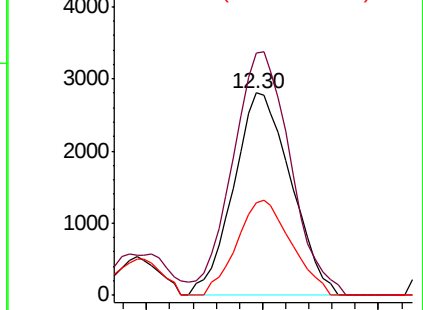
Manual Integrations
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Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 4.290 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN056678.D

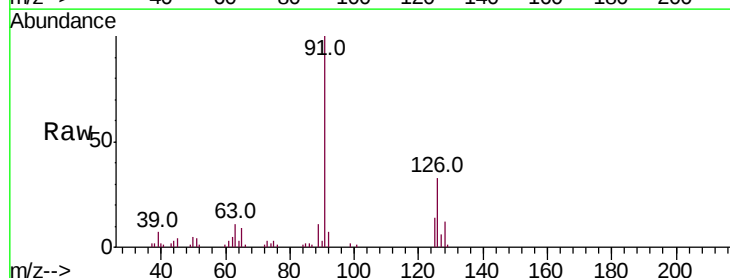
Acq: 12 Jul 2019 10:08

Tgt Ion: 91 Resp: 42947

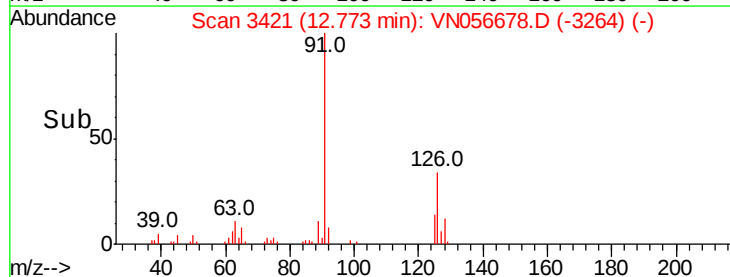
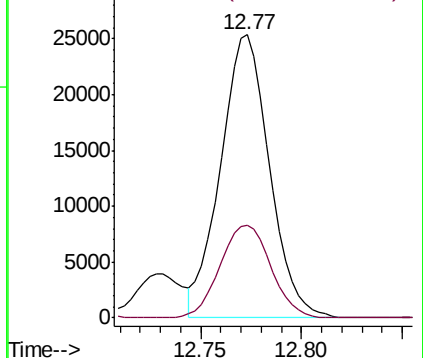
Ion Ratio Lower Upper

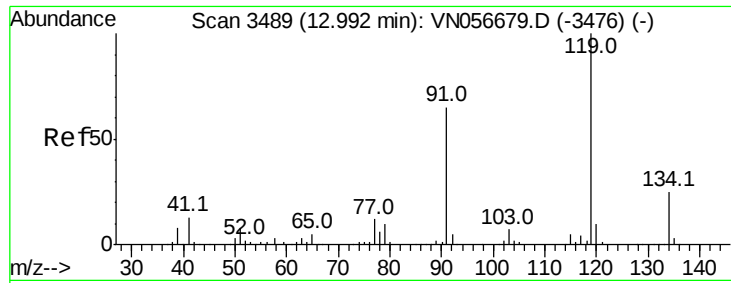
91 100

126 34.0 0.0 69.4



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 126.00 (125.70 to 126.70): V





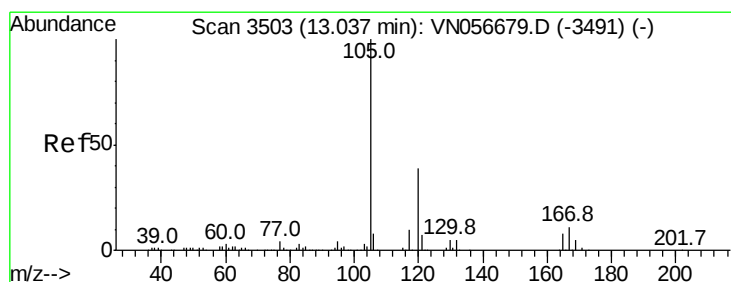
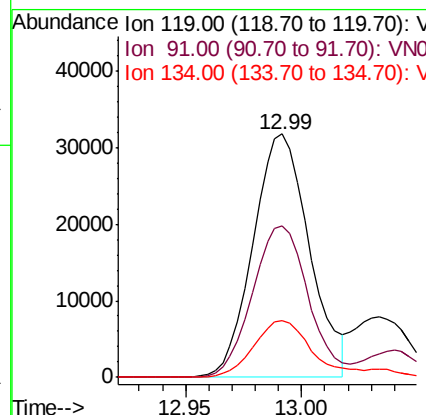
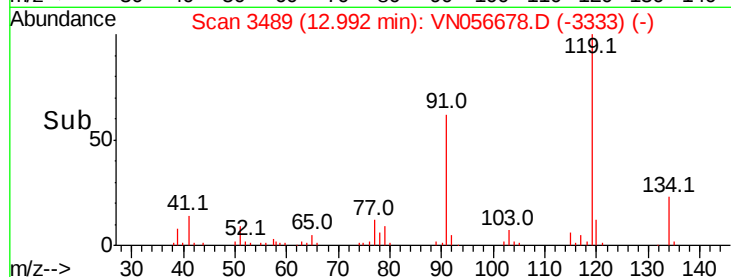
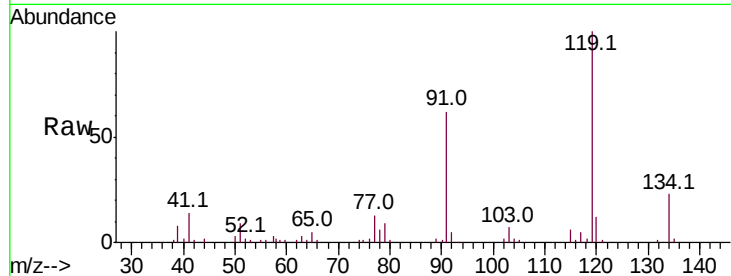
#79
tert-butylbenzene
Concen: 4.897 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.7	0.0	125.4
134	24.1	0.0	48.4

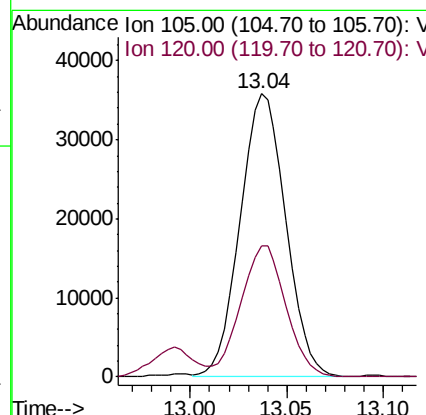
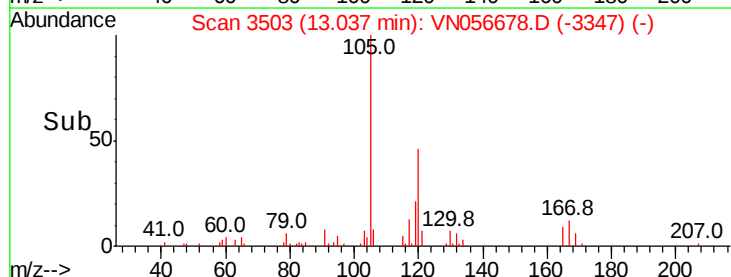
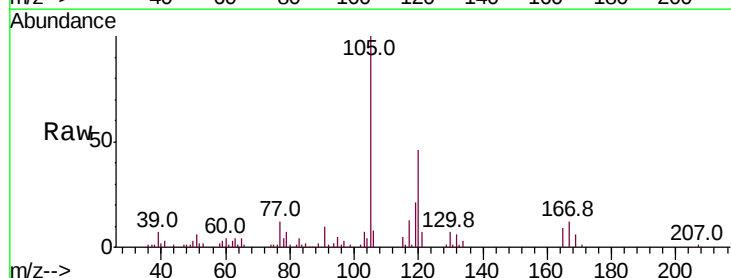
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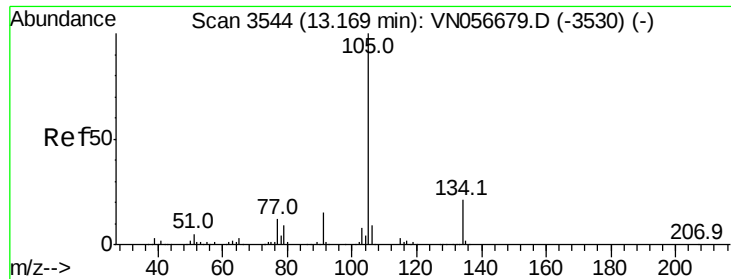
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 4.605 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	0.0	91.2





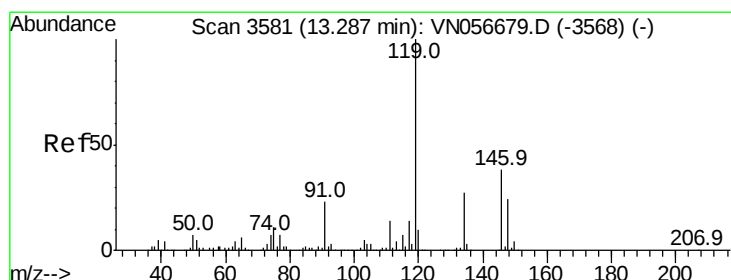
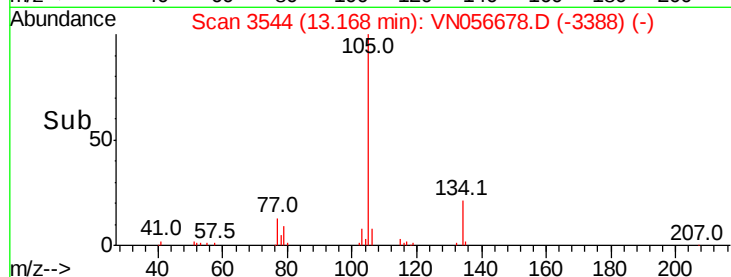
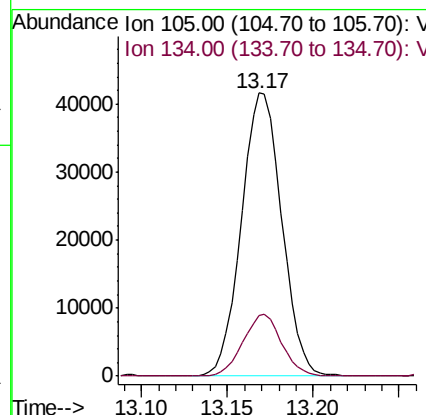
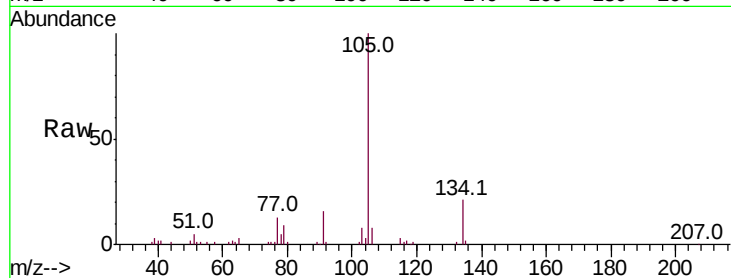
#81
 sec-Butylbenzene
 Concen: 4.649 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.8	0.0	40.8

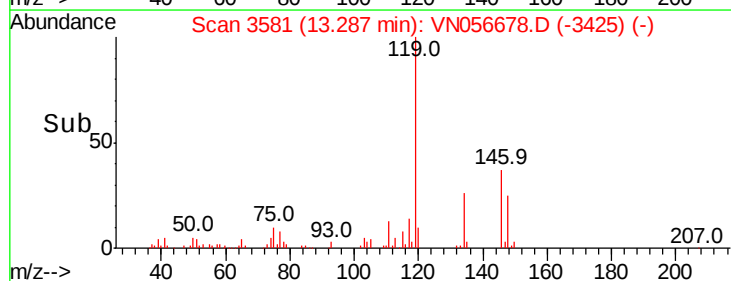
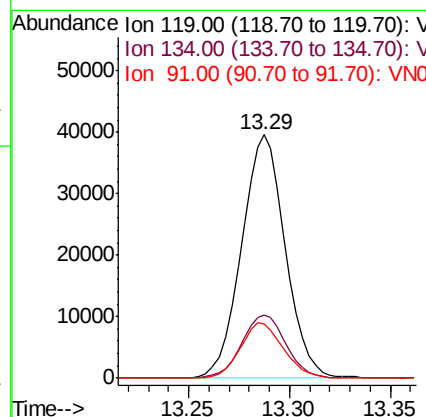
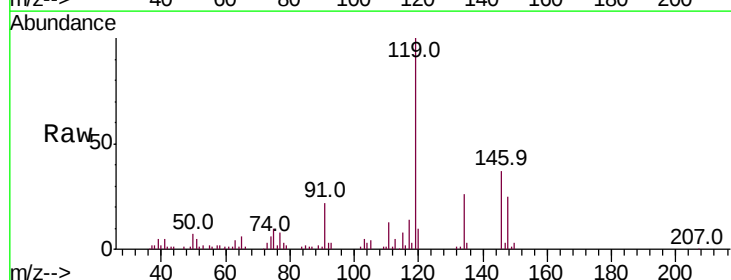
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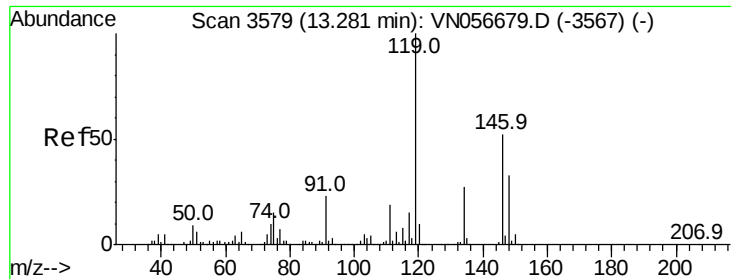
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#82
 p-Isopropyltoluene
 Concen: 4.528 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.3	0.0	52.8
91	22.3	0.0	45.4





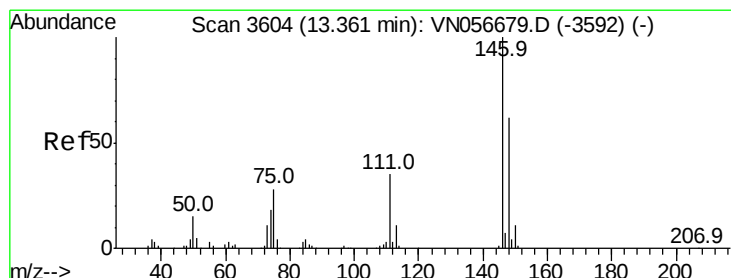
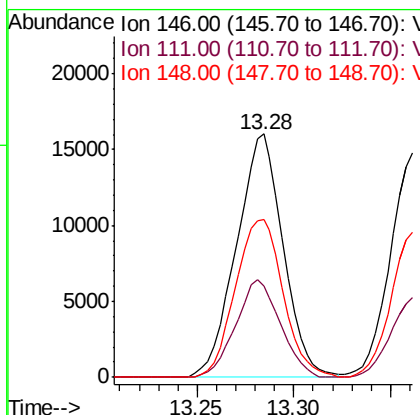
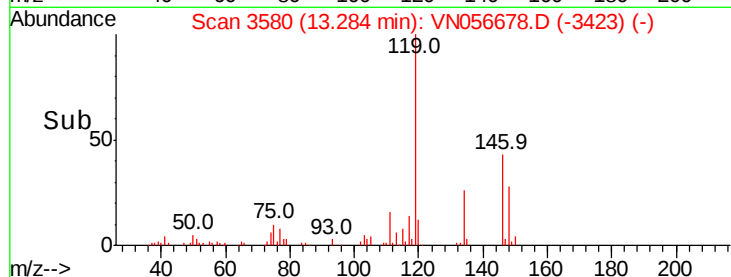
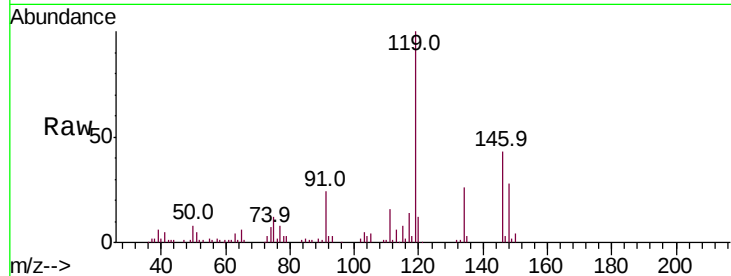
#83
 1,3-Dichlorobenzene
 Concen: 4.114 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.7	56.1
148	66.3	31.8	95.4

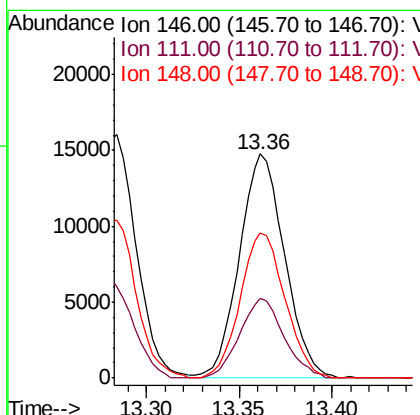
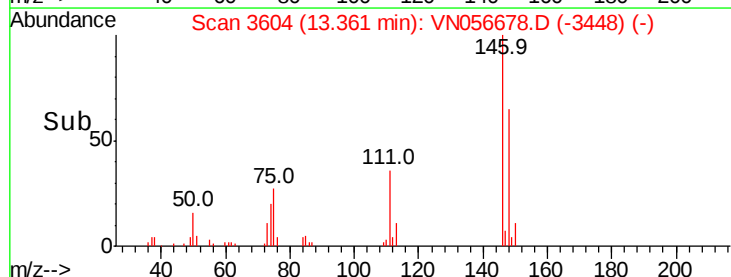
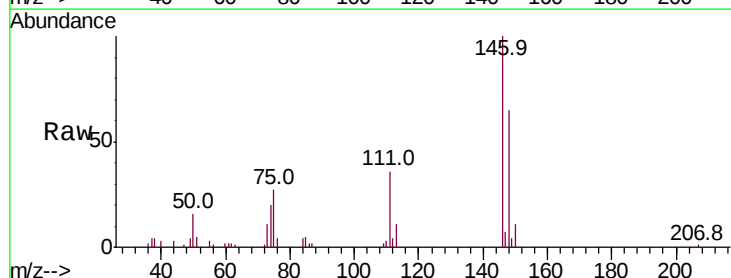
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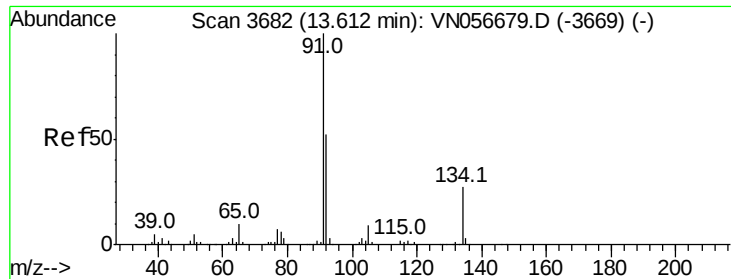
MMDadoda
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#84
 1,4-Dichlorobenzene
 Concen: 3.980 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.8	17.8	53.4
148	63.9	31.9	95.5





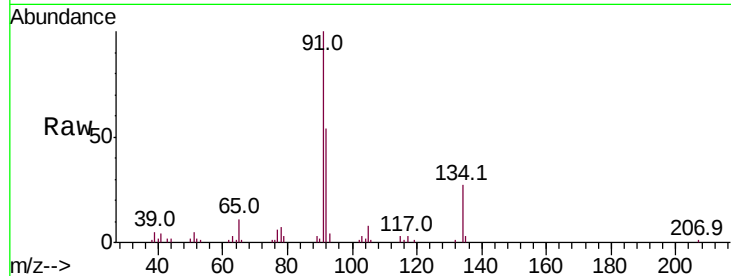
#85
n-Butylbenzene
Concen: 3.754 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	0.0	104.0
134	26.5	0.0	53.2

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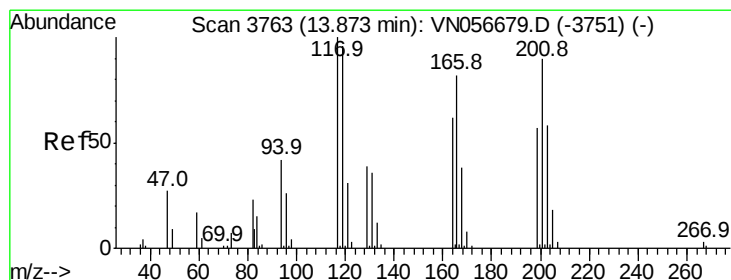
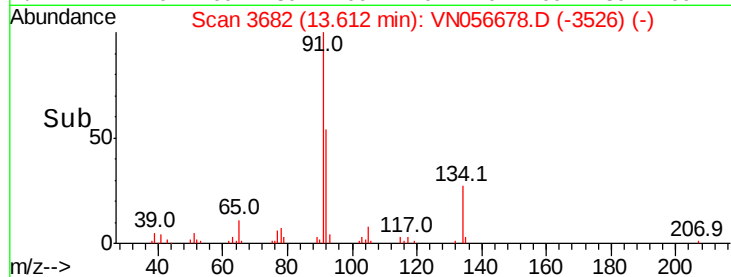
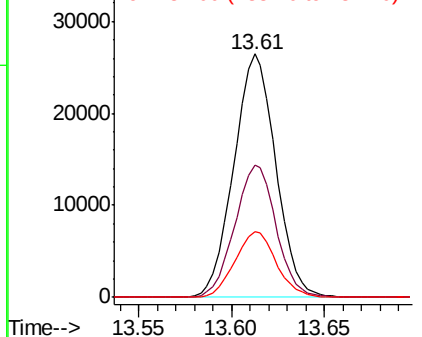


Abundance

Ion 91.00 (90.70 to 91.70): VN056679.D (-3669) (-)

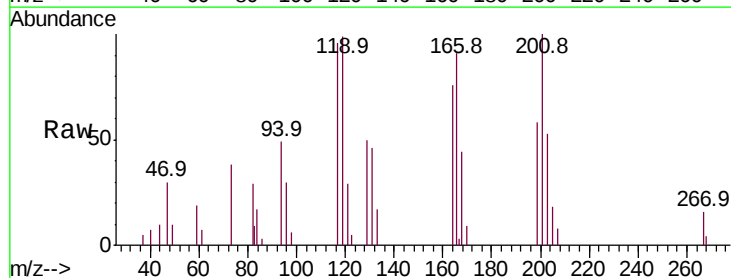
Ion 92.00 (91.70 to 92.70): VN056679.D (-3669) (-)

Ion 134.00 (133.70 to 134.70): VN056679.D (-3669) (-)



#86
Hexachloroethane
Concen: 4.456 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

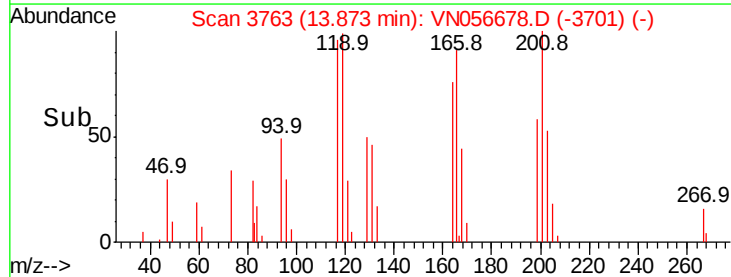
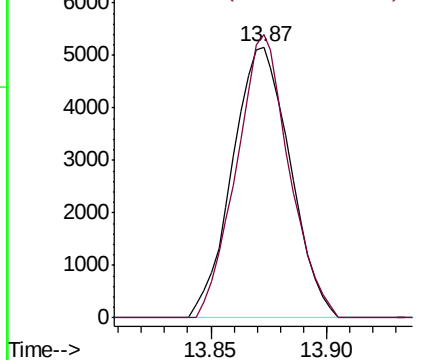
Tgt Ion	Ratio	Lower	Upper
117	100		
201	95.5	45.6	136.7

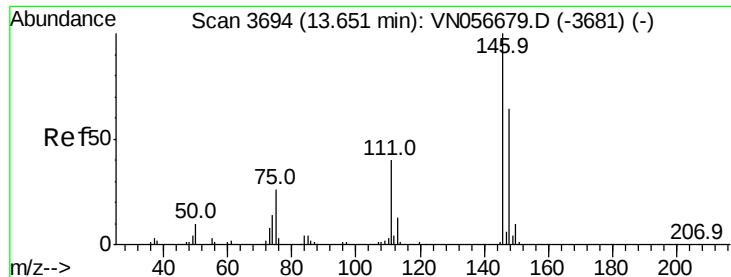


Abundance

Ion 117.00 (116.70 to 117.70): VN056678.D (-3701) (-)

Ion 201.00 (200.70 to 201.70): VN056678.D (-3701) (-)





#87

1,2-Dichlorobenzene

Concen: 4.511 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Instrument :

MSVOA_N

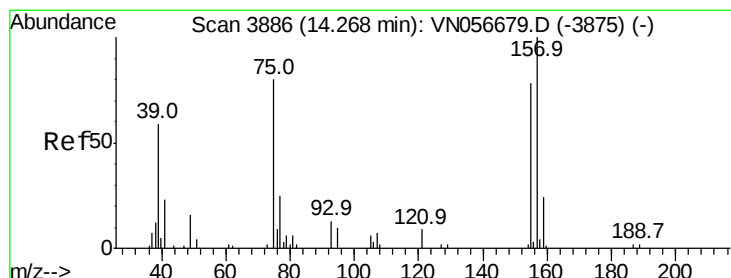
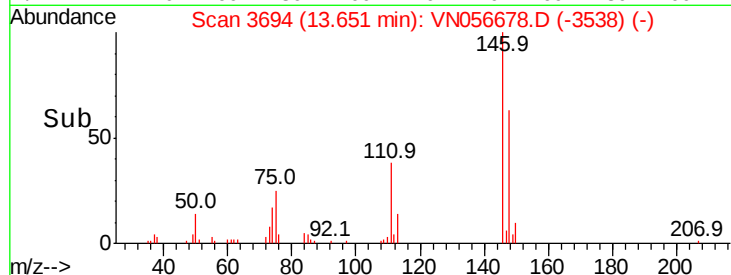
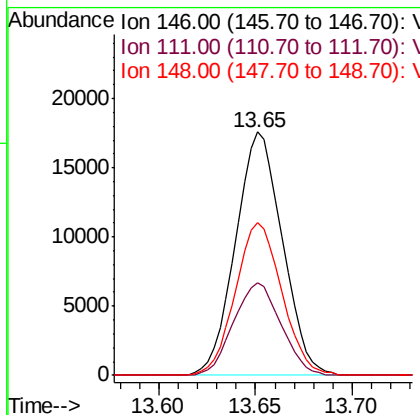
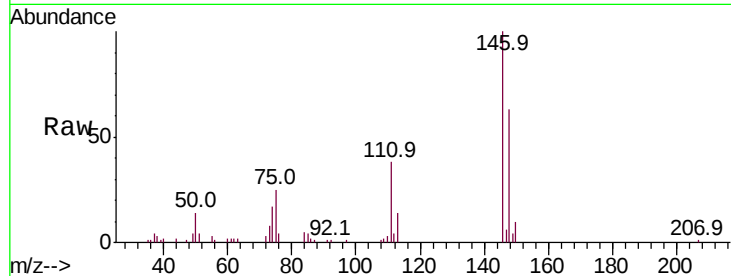
ClientSampleId :

VSTDIC005

Tot Ion:	146	Resp:	29676
Ion Ratio	Lower	Upper	
146	100		
111	38.3	19.7	59.0
148	62.1	32.7	98.1

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#88

1,2-Dibromo-3-Chloropropane

Concen: 4.479 ug/l

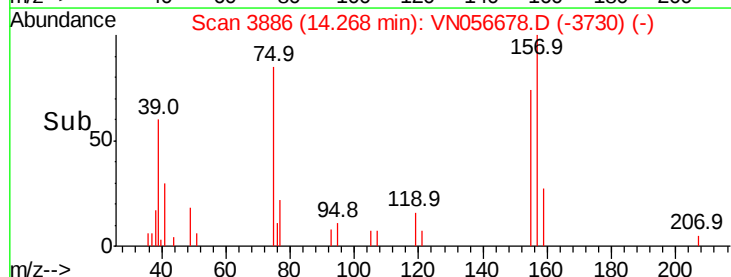
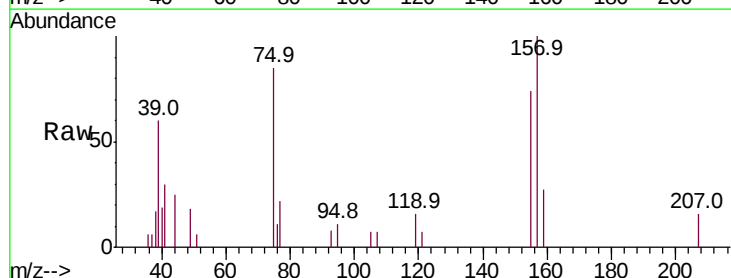
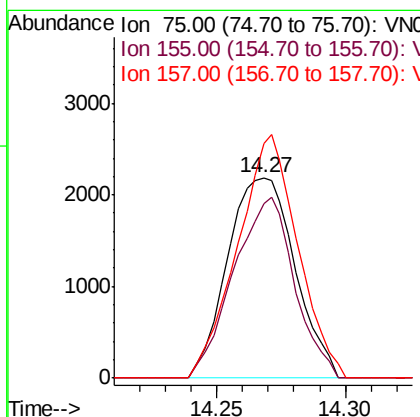
RT: 14.27 min Scan# 3886

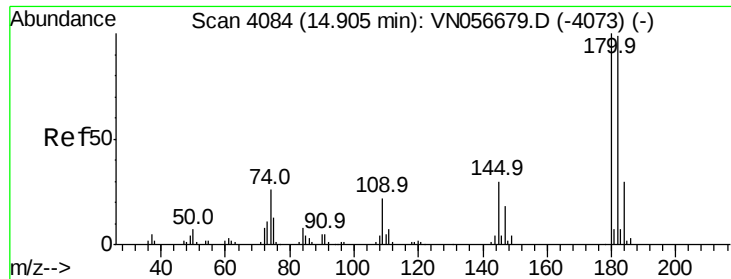
Delta R.T. -0.00 min

Lab File: VN056678.D

Acq: 12 Jul 2019 10:08

Tgt Ion:	75	Resp:	3981
Ion Ratio	Lower	Upper	
75	100		
155	81.7	78.6	117.8
157	108.8	99.3	148.9





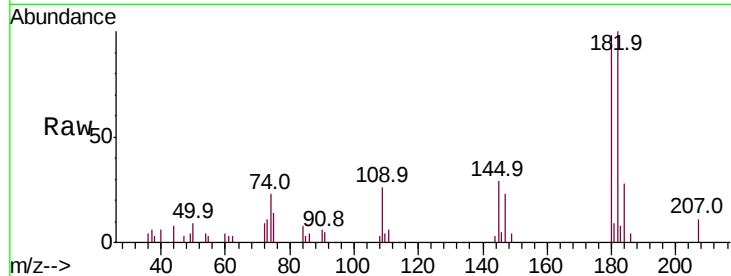
#89
 1,2,4-Trichlorobenzene
 Concen: 2.719 ug/l m
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	134.5	78.2	117.4#
145	41.2	23.2	34.8#

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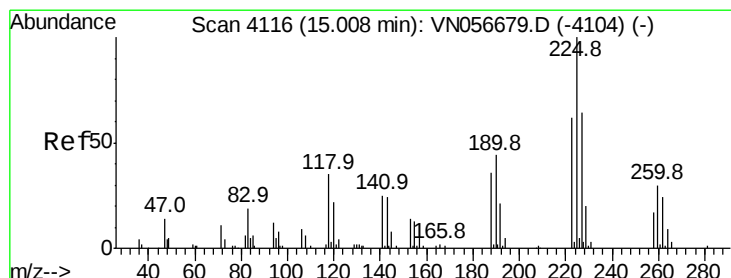
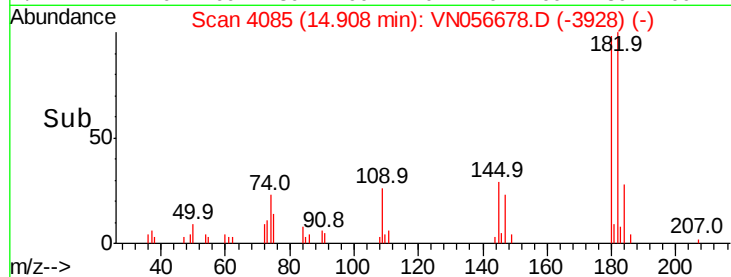
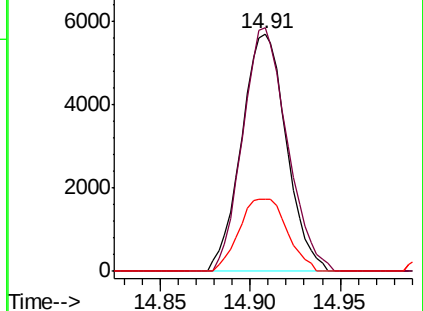


Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
 Hexachlorobutadiene
 Concen: 5.019 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056678.D
 Acq: 12 Jul 2019 10:08

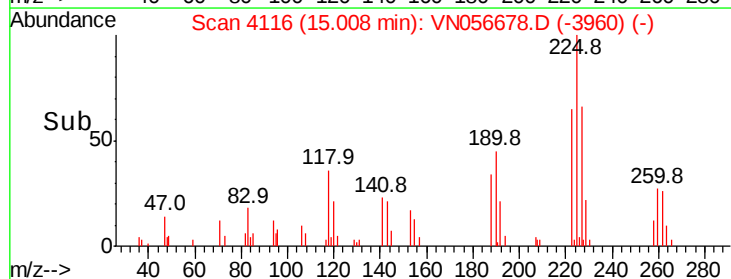
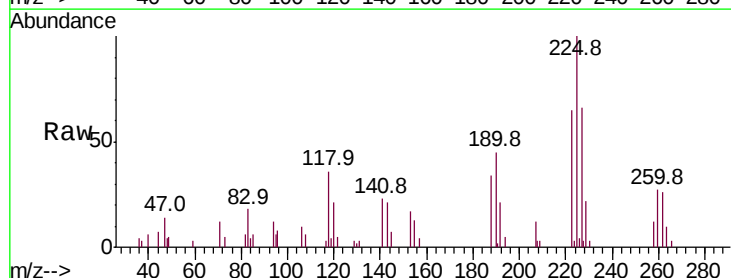
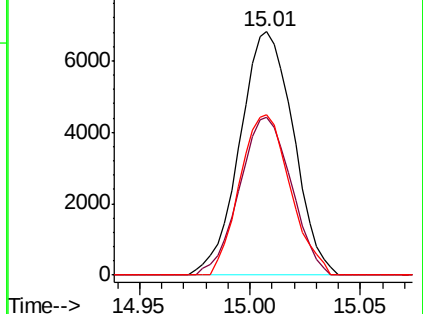
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	0.0	124.6
227	62.1	0.0	128.6

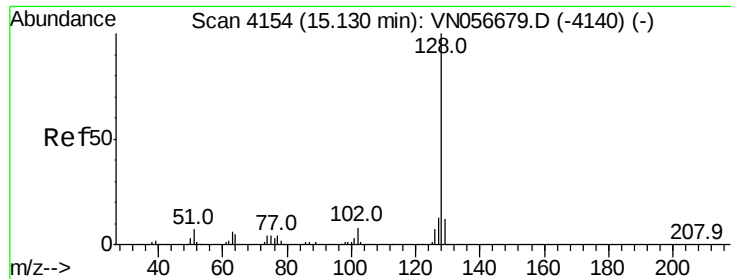
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





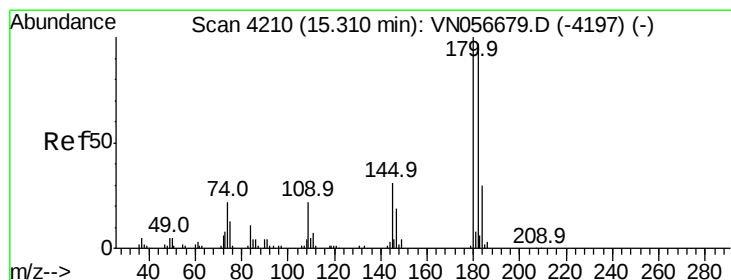
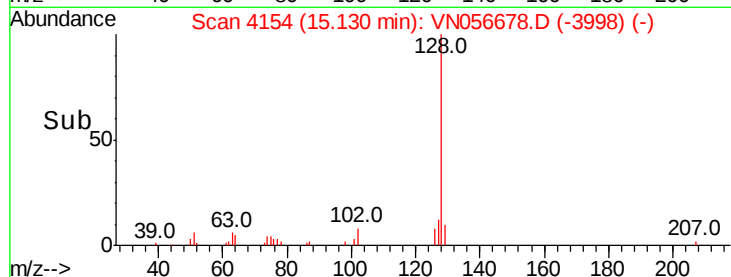
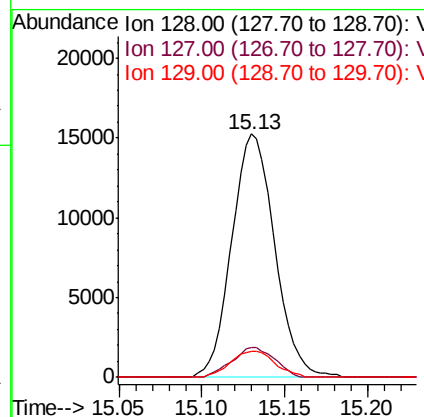
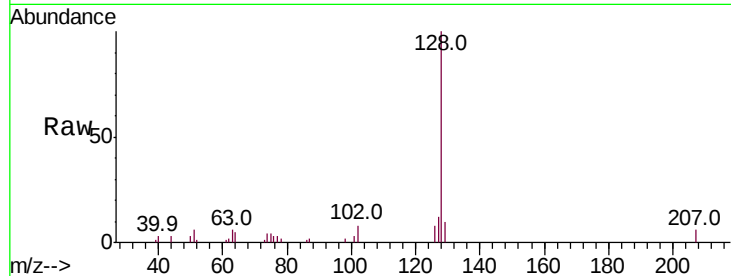
#91
Naphthalene
Concen: 2.754 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.4	15.6
129	10.9	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
7/16/2019 9:57:38 AM



#92
1,2,3-Trichlorobenzene
Concen: 3.527 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN056678.D
Acq: 12 Jul 2019 10:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.0	0.0	192.4
145	30.3	0.0	60.4

