

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055599.D
 Acq On : 17 May 2019 9:53
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 9:09:50 AM

Quant Time: May 17 23:32:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:16:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	320887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	488718	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	401702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	155367	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	17162	5.16	ug/l	0.00
Spiked Amount			Recovery	=	10.32%	
35) Dibromofluoromethane	7.59	113	14698	4.58	ug/l	0.00
Spiked Amount			Recovery	=	9.16%	
50) Toluene-d8	10.09	98	54758	4.76	ug/l	0.00
Spiked Amount			Recovery	=	9.52%	
62) 4-Bromofluorobenzene	12.40	95	17283	4.54	ug/l	0.00
Spiked Amount			Recovery	=	9.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	13046	4.819	ug/l	99
3) Chloromethane	2.06	50	17030	5.034	ug/l	98
4) Vinyl Chloride	2.18	62	18782	5.129	ug/l	97
5) Bromomethane	2.57	94	12439	4.691	ug/l	94
6) Chloroethane	2.71	64	10081	4.307	ug/l	98
7) Trichlorofluoromethane	3.03	101	23952	4.627	ug/l	98
8) Diethyl Ether	3.41	74	9361	5.000	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.76	101	14542	4.625	ug/l	97
10) Methyl Iodide	3.96	142	19273	4.212	ug/l	97
11) Tert butyl alcohol	4.77	59	16562	55.445	ug/l	98
12) 1,1-Dichloroethene	3.74	96	15507	5.233	ug/l	99
13) Acrolein	3.61	56	11309	67.357	ug/l	100
14) Allyl chloride	4.33	41	24302	5.347	ug/l	93
15) Acrylonitrile	4.99	53	36234	32.933	ug/l #	89
16) Acetone	3.82	43	36350	36.501	ug/l	96
17) Carbon Disulfide	4.06	76	42188	4.674	ug/l	99
18) Methyl Acetate	4.33	43	15521	6.732	ug/l	95
19) Methyl tert-butyl Ether	5.04	73	49095	6.266	ug/l	97
20) Methylene Chloride	4.56	84	16825	5.013	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	16255	5.229	ug/l	95
22) Diisopropyl ether	5.95	45	47404	5.607	ug/l	94
23) Vinyl Acetate	5.90	43	199042	31.586	ug/l	100
24) 1,1-Dichloroethane	5.85	63	28117	4.970	ug/l	96
25) 2-Butanone	6.83	43	49105	37.592	ug/l	98
26) 2,2-Dichloropropane	6.83	77	25436	5.808	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	18770	5.368	ug/l	99
28) Bromochloromethane	7.20	49	12220	4.946	ug/l	100
29) Tetrahydrofuran	7.21	42	31868	37.864	ug/l	96
30) Chloroform	7.37	83	29015	5.105	ug/l	98
31) Cyclohexane	7.66	56	31253	5.312	ug/l #	85
32) 1,1,1-Trichloroethane	7.57	97	25900	5.293	ug/l	98
36) 1,1-Dichloropropene	7.79	75	21362	4.782	ug/l	99
37) Ethyl Acetate	6.93	43	19009	6.961	ug/l	95
38) Carbon Tetrachloride	7.77	117	23613	4.922	ug/l	98

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 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
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Quant Time: May 17 23:32:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:16:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	27007	5.275	ug/l	99
40) Benzene	8.04	78	65266	4.973	ug/l	100
41) Methacrylonitrile	7.18	41	9803m	7.022	ug/l	
42) 1,2-Dichloroethane	8.13	62	21354	5.339	ug/l	96
43) Isopropyl Acetate	8.16	43	33417	6.467	ug/l	98
44) Trichloroethene	8.83	130	18191	4.945	ug/l	99
45) 1,2-Dichloropropane	9.12	63	17163	5.094	ug/l	97
46) Dibromomethane	9.21	93	11264	5.474	ug/l	98
47) Bromodichloromethane	9.40	83	23101	5.349	ug/l	98
48) Methyl methacrylate	9.20	41	15100	6.788	ug/l	98
49) 1,4-Dioxane	9.20	88	5583	154.837	ug/l	94
51) 4-Methyl-2-Pentanone	9.98	43	99119	40.238	ug/l	100
52) Toluene	10.16	92	39337	5.071	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	24121	5.661	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	26763	5.446	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	16466	5.685	ug/l	98
56) Ethyl methacrylate	10.43	69	24089	6.955	ug/l	97
57) 1,3-Dichloropropane	10.71	76	25404	5.295	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	52129	34.178	ug/l	100
59) 2-Hexanone	10.75	43	65635	38.769	ug/l	100
60) Dibromochloromethane	10.90	129	18381	5.476	ug/l	98
61) 1,2-Dibromoethane	11.00	107	15876	5.503	ug/l	99
64) Tetrachloroethene	10.63	164	17083	4.834	ug/l	98
65) Chlorobenzene	11.43	112	40757	4.862	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	17019	5.513	ug/l	99
67) Ethyl Benzene	11.51	91	73494	5.376	ug/l	99
68) m/p-Xylenes	11.62	106	55830	10.616	ug/l	100
69) o-Xylene	11.95	106	27090	5.340	ug/l	98
70) Styrene	11.96	104	43100	5.363	ug/l	99
71) Bromoform	12.13	173	13463	5.905	ug/l #	99
73) Isopropylbenzene	12.25	105	73200	6.651	ug/l	100
74) N-amyl acetate	12.07	43	23730	8.445	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	21667	7.883	ug/l	96
76) 1,2,3-Trichloropropane	12.55	75	19210m	8.048	ug/l	
77) Bromobenzene	12.53	156	16980	5.772	ug/l	99
78) n-propylbenzene	12.59	91	76113	6.215	ug/l	100
79) 2-Chlorotoluene	12.67	91	46929	6.339	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	60386	6.616	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	6565	8.497	ug/l	99
82) 4-Chlorotoluene	12.77	91	43169	5.862	ug/l	99
83) tert-Butylbenzene	12.99	119	54862	6.724	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	59270	6.503	ug/l	99
85) sec-Butylbenzene	13.17	105	68251	6.248	ug/l	100
86) p-Isopropyltoluene	13.29	119	61029	6.393	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	26757	5.230	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	24907	4.842	ug/l	95
89) n-Butylbenzene	13.61	91	46495	5.940	ug/l	100
90) Hexachloroethane	13.87	117	11972	6.440	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	27687	5.505	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	3843	8.863	ug/l	99

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ALS Vial : 4 Sample Multiplier: 1

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MSVOA_N
ClientSampleId :
VSTDICC005

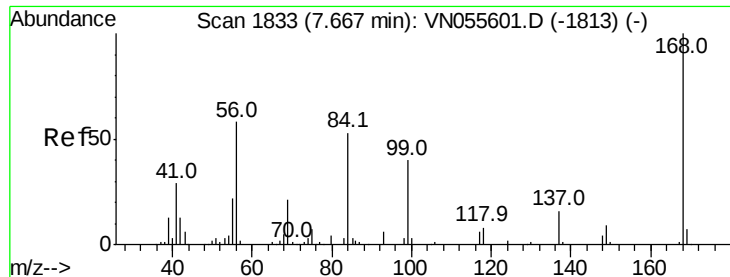
Manual Integrations
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Quant Time: May 17 23:32:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
Quant Title : SW846 8260
QLast Update : Fri May 17 23:16:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	11449	4.356	ug/l	96
94) Hexachlorobutadiene	15.01	225	10693	5.119	ug/l	98
95) Naphthalene	15.13	128	27577	5.219	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	12568	4.904	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 320887

Ion Ratio Lower Upper

168 100

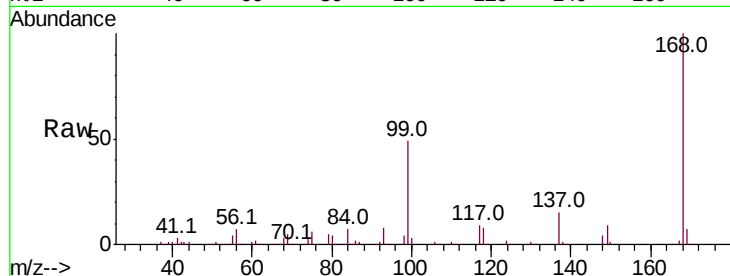
99 48.4 40.2 60.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN055599.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055599.D (-1740) (-)

7.67

150000

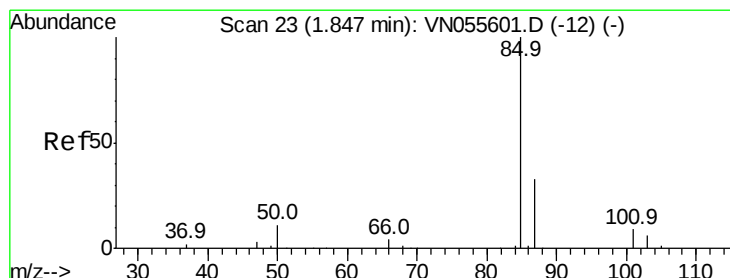
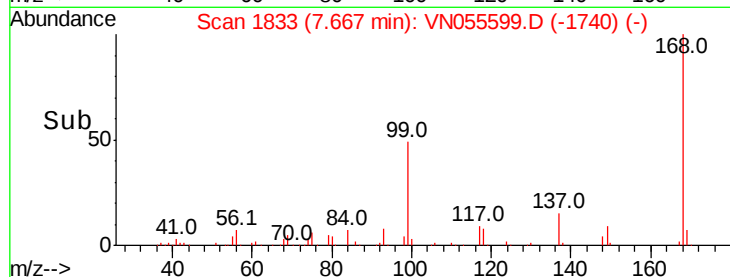
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 4.819 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055599.D

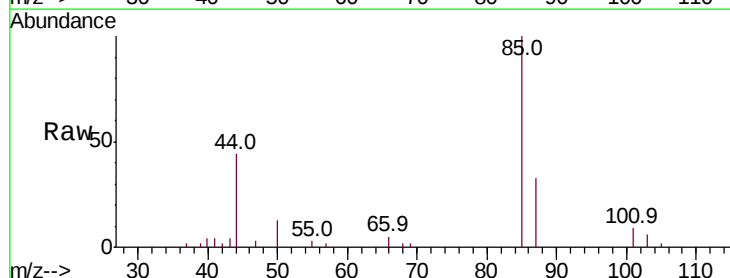
Acq: 17 May 2019 9:53

Tgt Ion: 85 Resp: 13046

Ion Ratio Lower Upper

85 100

87 32.7 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VN055599.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN055599.D (-1) (-)

1.85

8000

6000

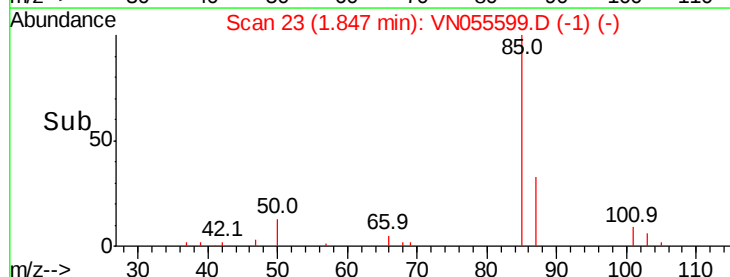
4000

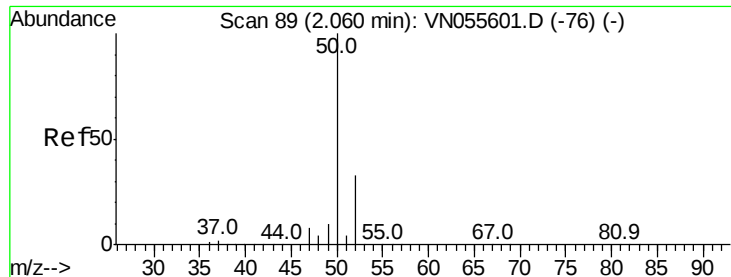
2000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 5.034 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 17030

Ion Ratio Lower Upper

50 100

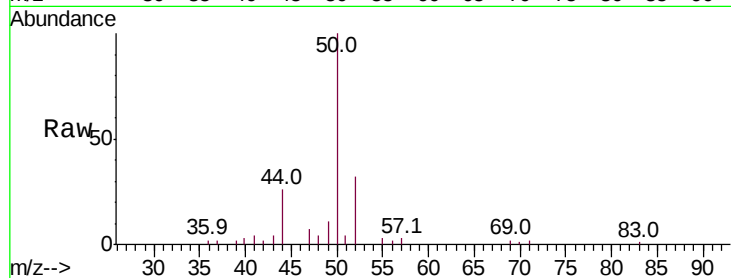
52 32.1 26.7 40.1

Manual Integrations

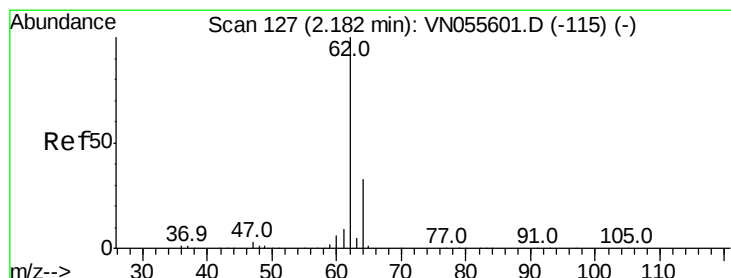
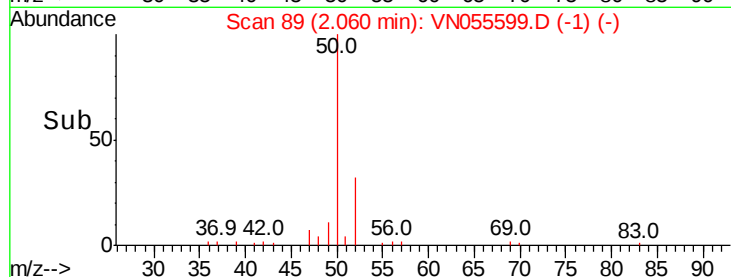
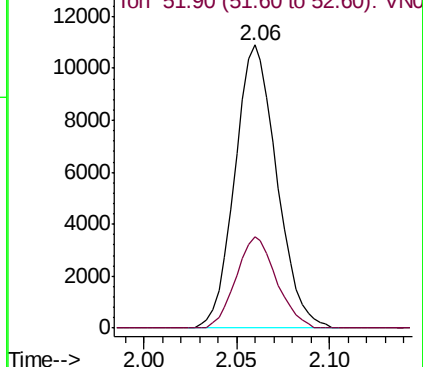
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Abundance Ion 49.90 (49.60 to 50.60): VN055599.D (-1) (-)



#4

Vinyl Chloride

Concen: 5.129 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055599.D

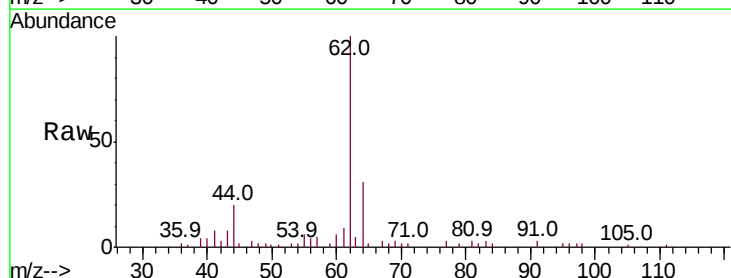
Acq: 17 May 2019 9:53

Tgt Ion: 62 Resp: 18782

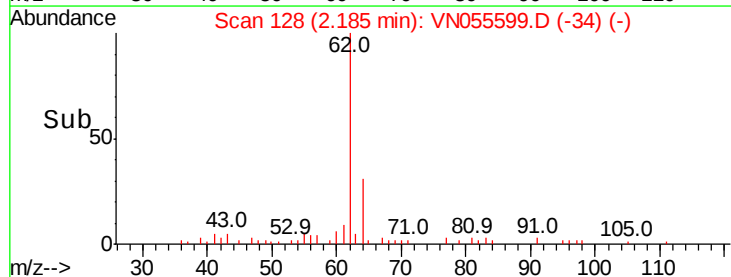
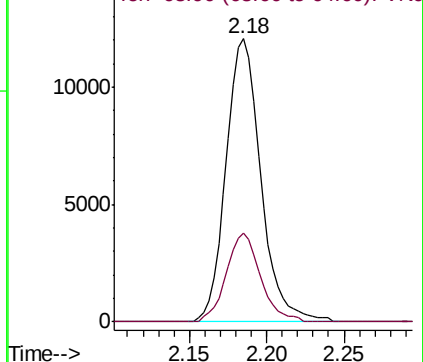
Ion Ratio Lower Upper

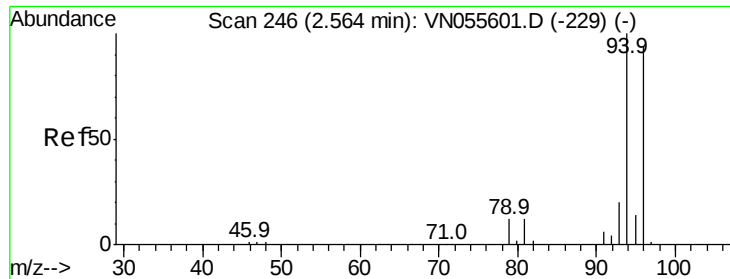
62 100

64 31.3 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VN055599.D (-34) (-)





#5

Bromomethane

Concen: 4.691 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 12439

Ion Ratio Lower Upper

94 100

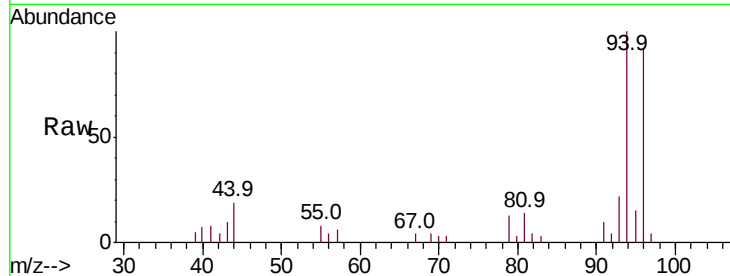
96 88.5 75.2 112.8

Manual Integrations

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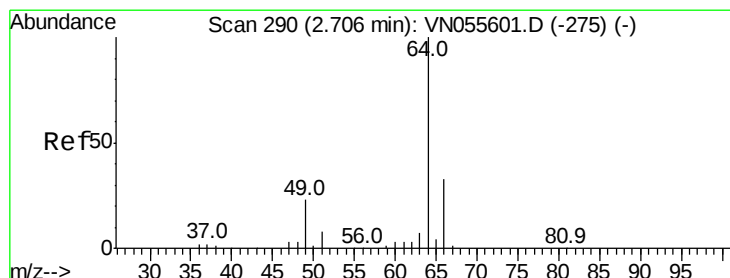
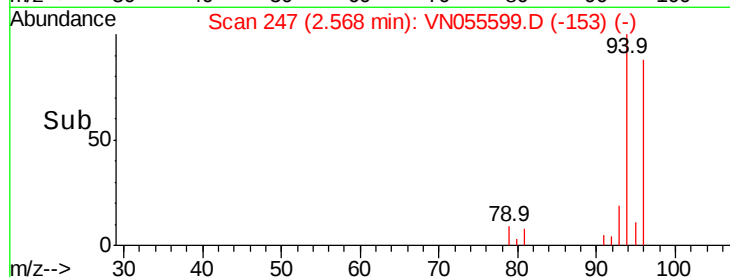
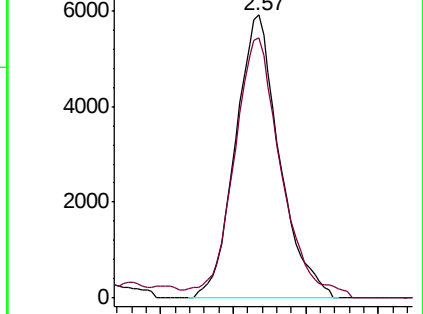
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 4.307 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN055599.D

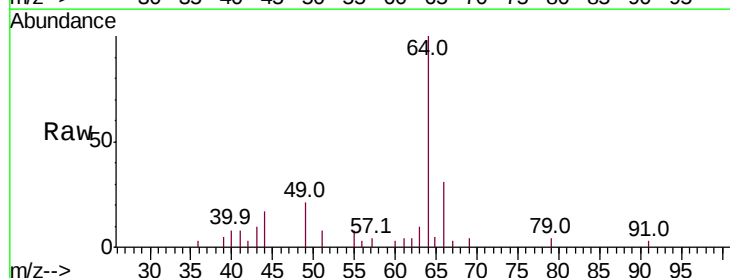
Acq: 17 May 2019 9:53

Tgt Ion: 64 Resp: 10081

Ion Ratio Lower Upper

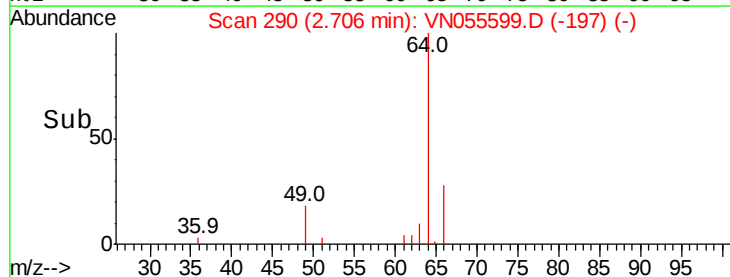
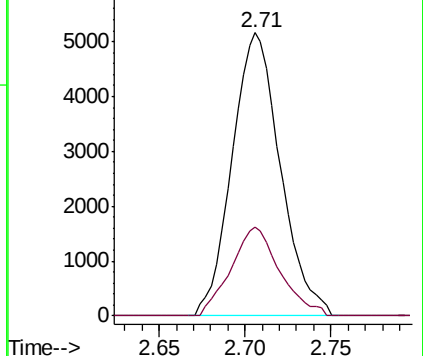
64 100

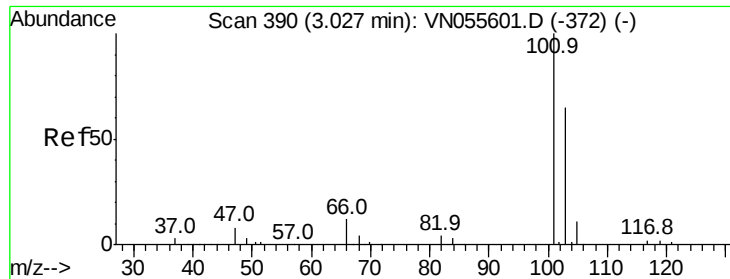
66 31.5 26.2 39.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

Trichlorofluoromethane

Concen: 4.627 ug/l

RT: 3.03 min Scan# 390

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 23952

Ion Ratio Lower Upper

101 100

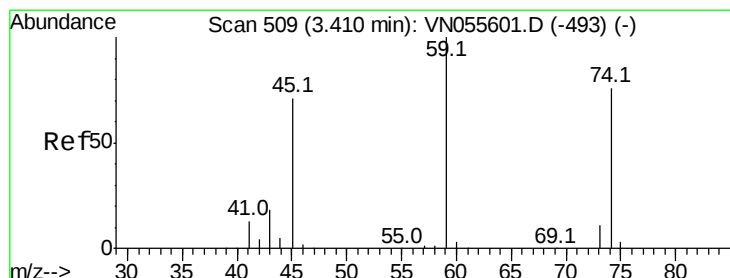
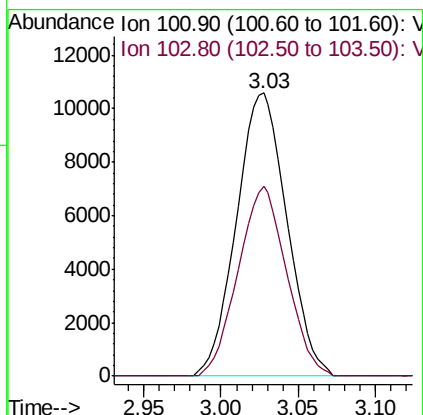
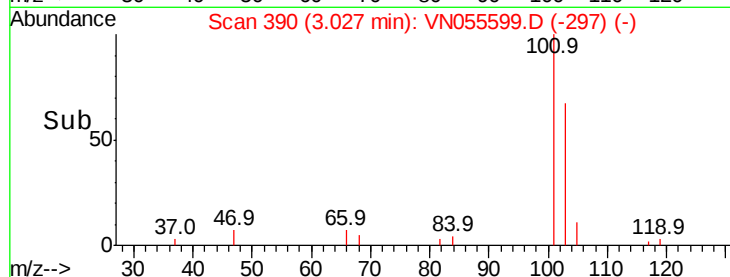
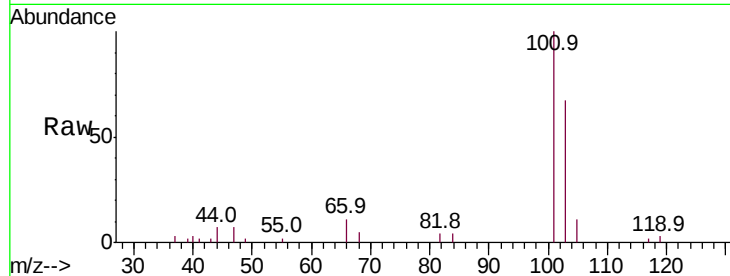
103 67.2 52.3 78.5

Manual Integrations

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5/20/2019 9:09:50 AM



#8

Diethyl Ether

Concen: 5.000 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN055599.D

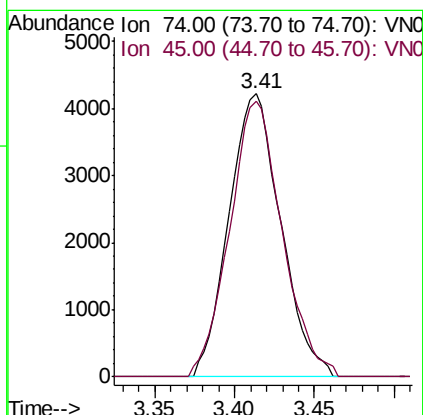
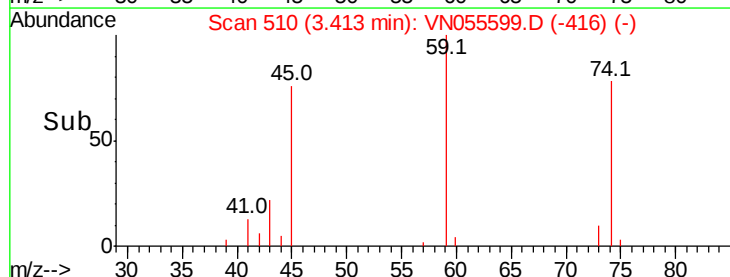
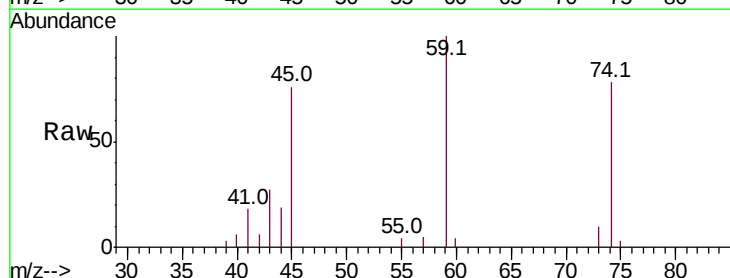
Acq: 17 May 2019 9:53

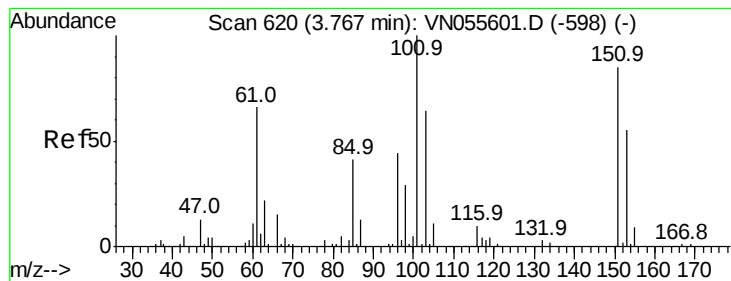
Tgt Ion: 74 Resp: 9361

Ion Ratio Lower Upper

74 100

45 98.6 46.4 139.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.625 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

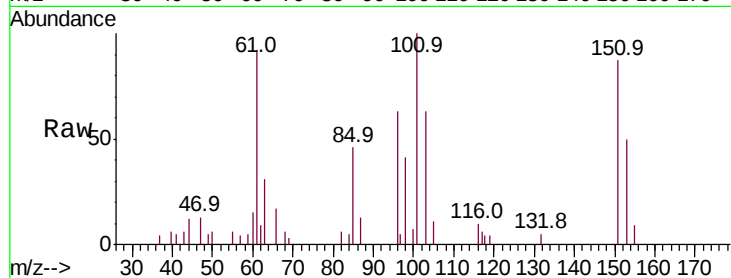
ClientSampleId :

VSTDIC005

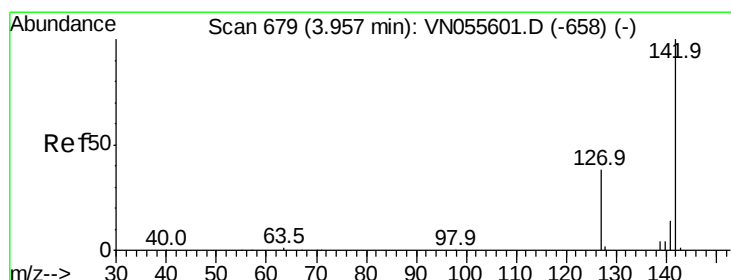
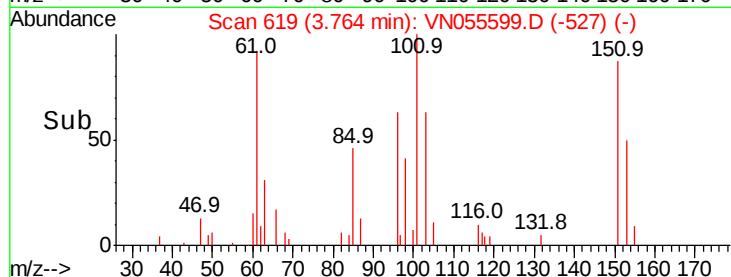
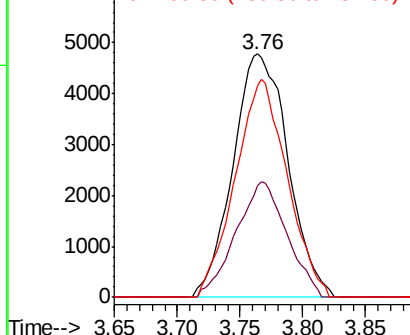
Tot Ion:	101	Resp:	14542
Ion Ratio	Lower	Upper	
101	100		
85	44.0	33.4	50.0
151	84.8	69.3	103.9

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



#10

Methyl Iodide

Concen: 4.212 ug/l

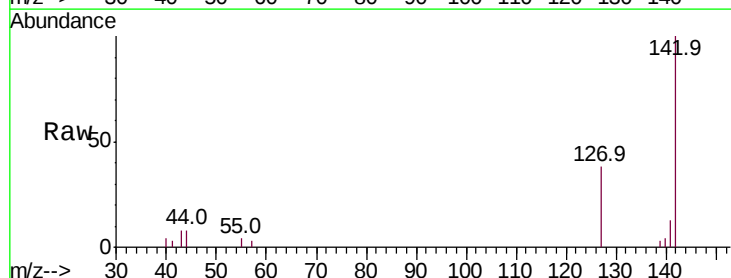
RT: 3.96 min Scan# 681

Delta R.T. 0.01 min

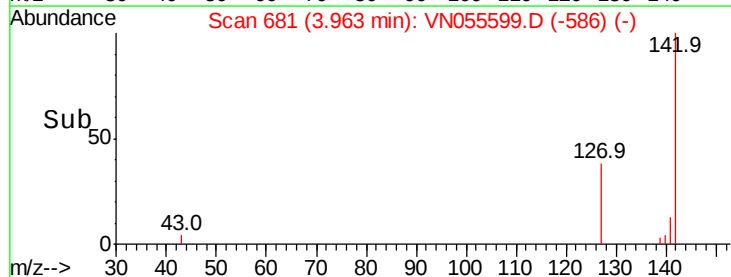
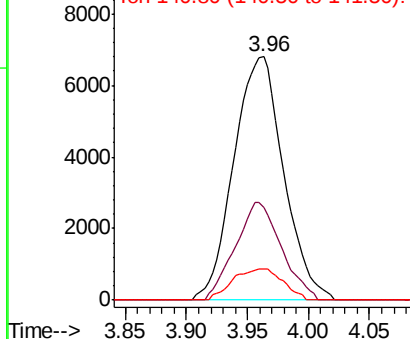
Lab File: VN055599.D

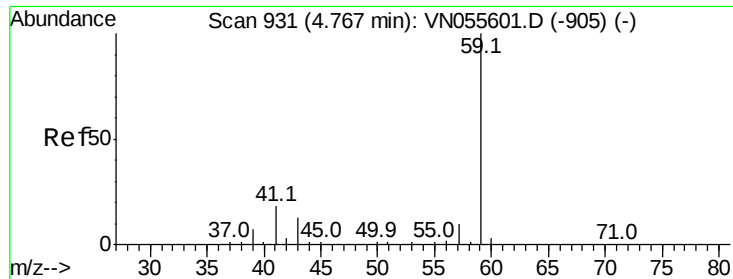
Acq: 17 May 2019 9:53

Tgt Ion:	142	Resp:	19273
Ion Ratio	Lower	Upper	
142	100		
127	37.0	31.0	46.4
141	12.9	11.5	17.3



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





#11

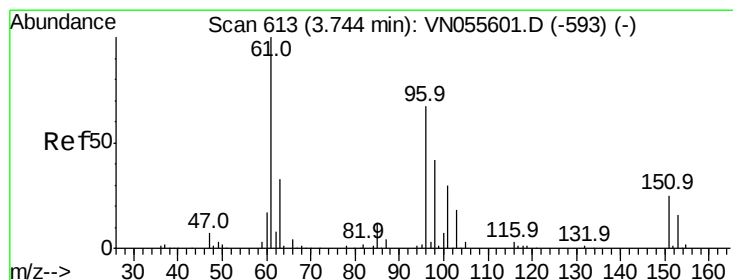
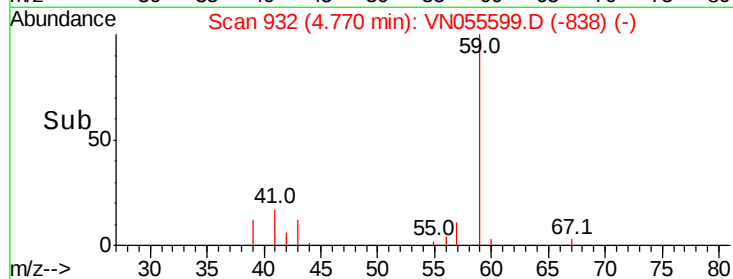
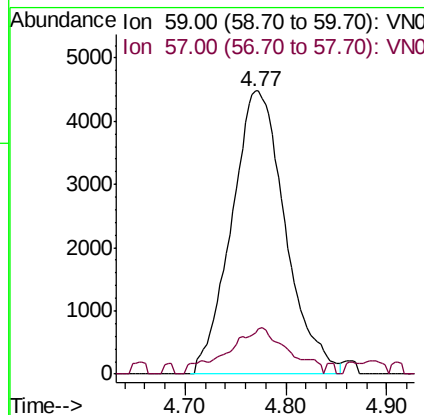
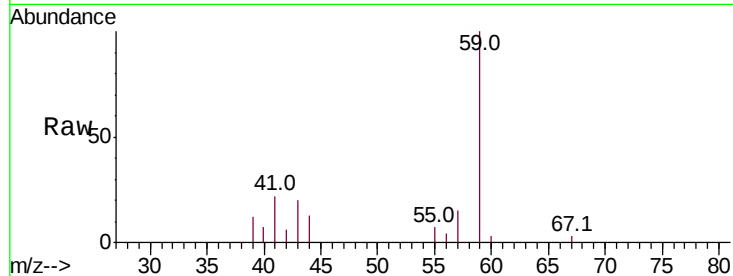
Tert butyl alcohol
 Concen: 55.445 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Tot Ion: 59 Resp: 16562
 Ion Ratio Lower Upper
 59 100
 57 10.5 7.8 11.6

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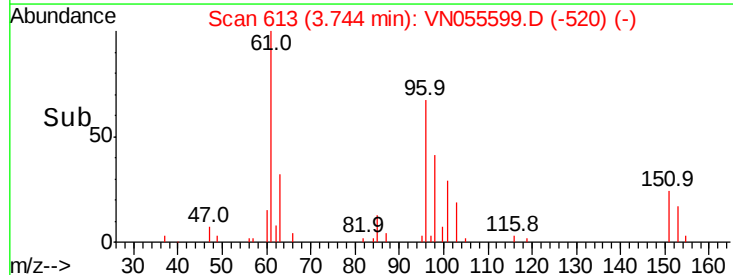
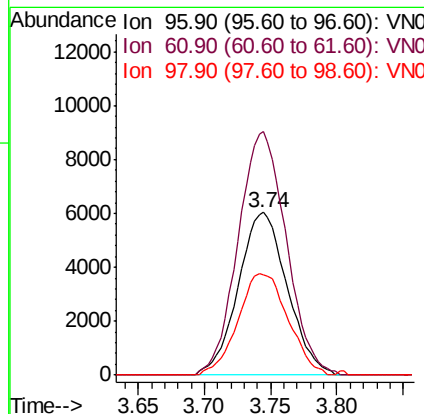
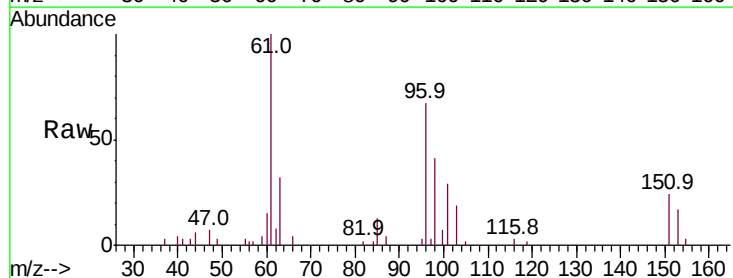
MMDadoda
 5/20/2019 9:09:50 AM

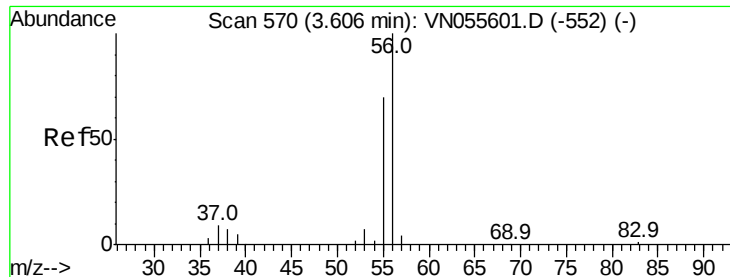


#12

1,1-Dichloroethene
 Concen: 5.233 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Tgt Ion: 96 Resp: 15507
 Ion Ratio Lower Upper
 96 100
 61 149.8 120.2 180.2
 98 62.0 50.6 75.8





#13

Acrolein

Concen: 67.357 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 11309

Ion Ratio Lower Upper

56 100

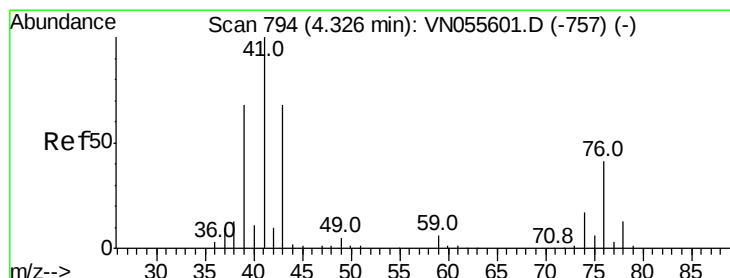
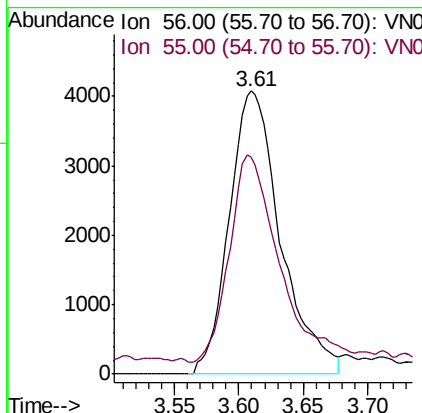
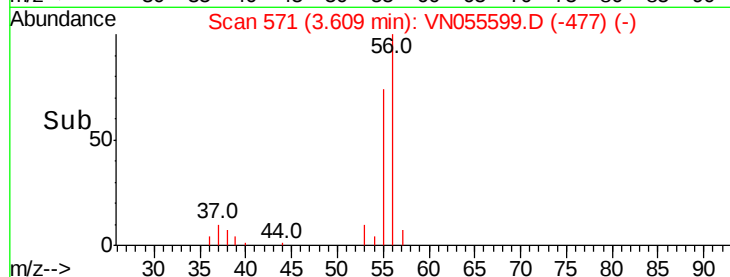
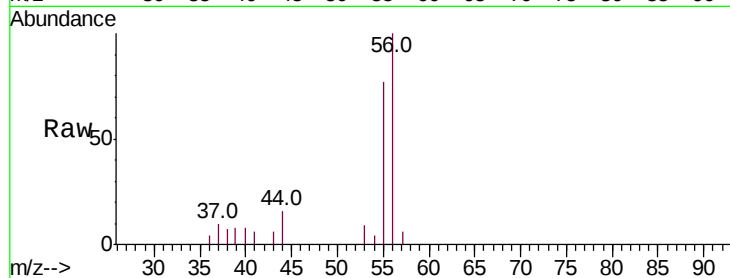
55 70.7 56.5 84.7

Manual Integrations

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#14

Allyl chloride

Concen: 5.347 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

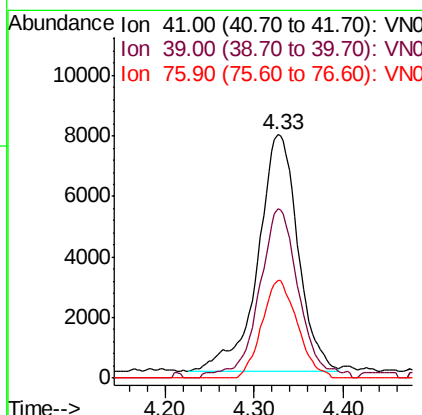
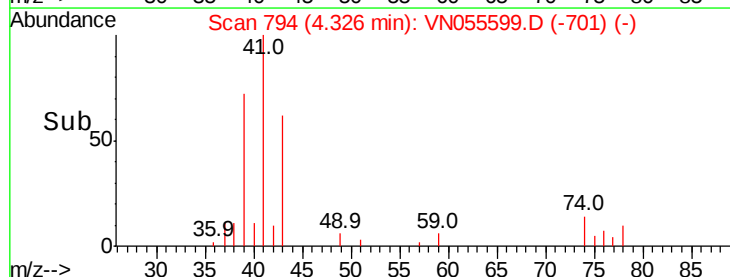
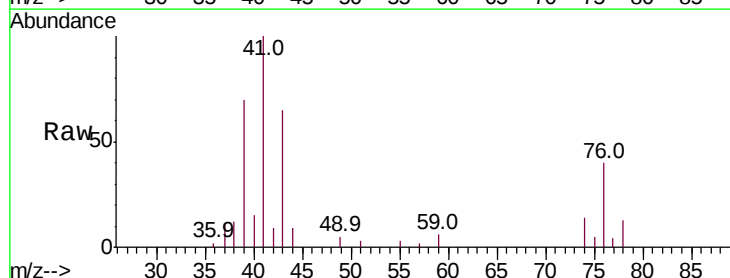
Tgt Ion: 41 Resp: 24302

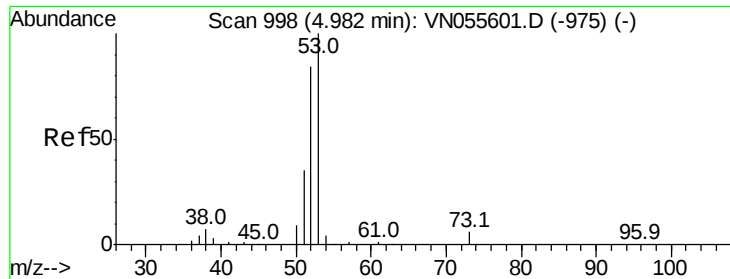
Ion Ratio Lower Upper

41 100

39 71.4 50.5 75.7

76 36.9 29.2 43.8





#15

Acrylonitrile

Concen: 32.933 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

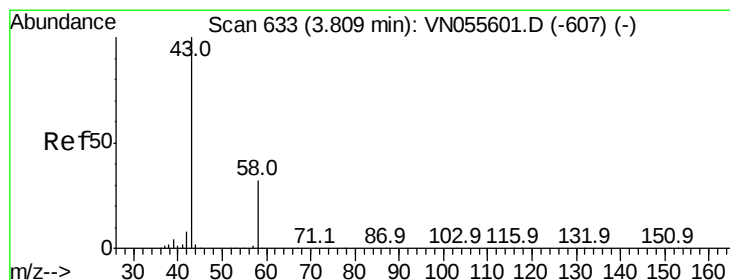
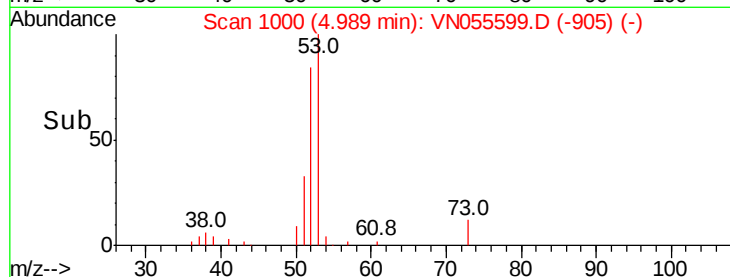
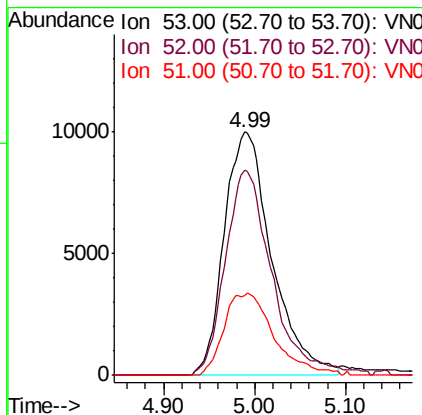
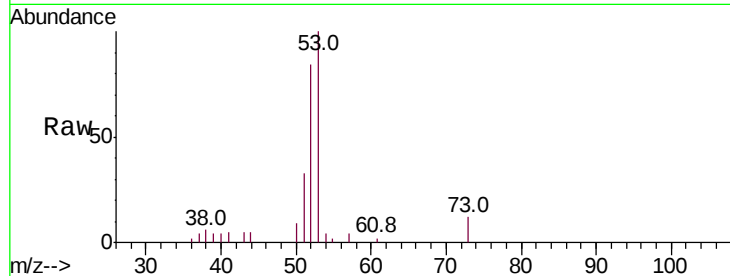
ClientSampled :

VSTDIC005

Tot Ion:	53	Resp:	36234
Ion Ratio	Lower	Upper	
53	100		
52	82.8	66.2	99.4
51	13.4	28.5	42.7#

Manual Integrations
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#16

Acetone

Concen: 36.501 ug/l

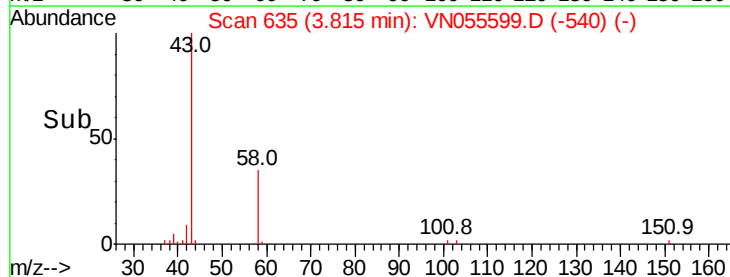
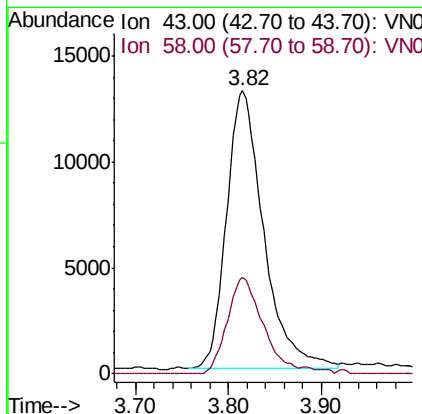
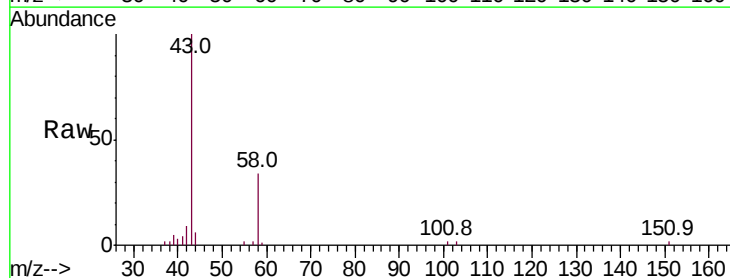
RT: 3.82 min Scan# 635

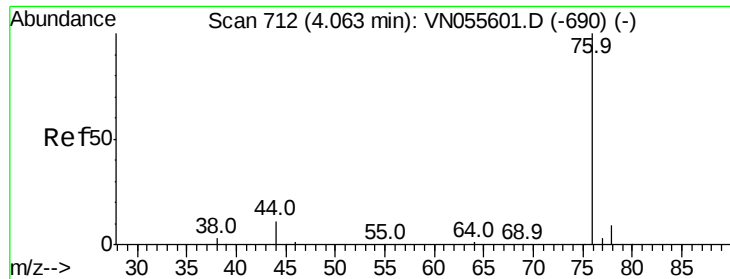
Delta R.T. 0.01 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Tgt Ion:	43	Resp:	36350
Ion Ratio	Lower	Upper	
43	100		
58	34.7	26.0	39.0





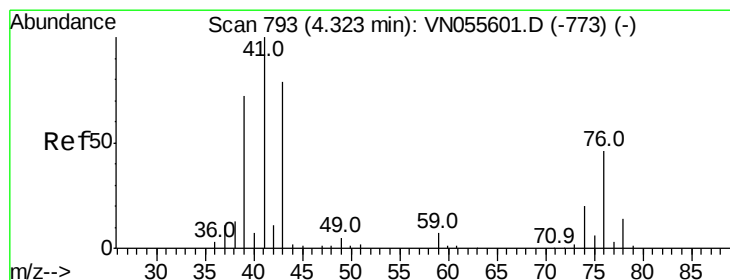
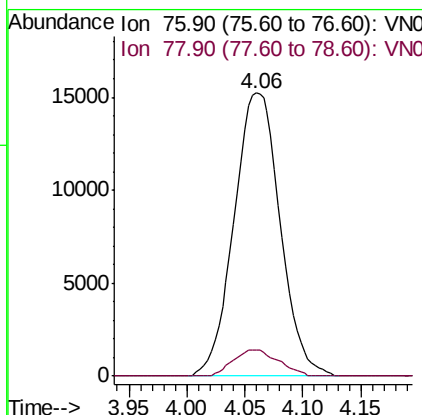
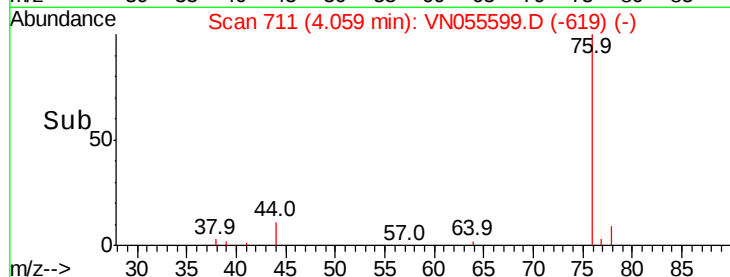
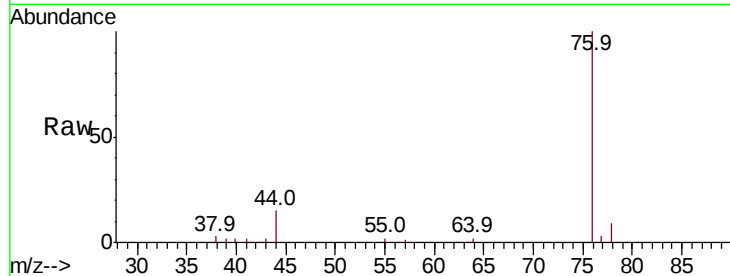
#17
Carbon Disulfide
Concen: 4.674 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	76	Ratio	Lower	Upper
76	100			
78	9.4		7.3	10.9

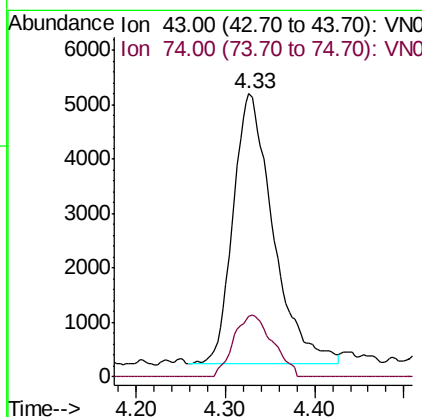
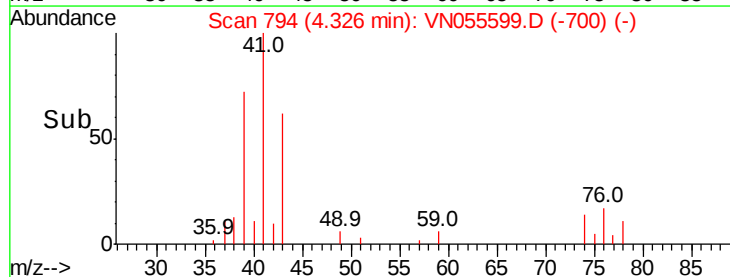
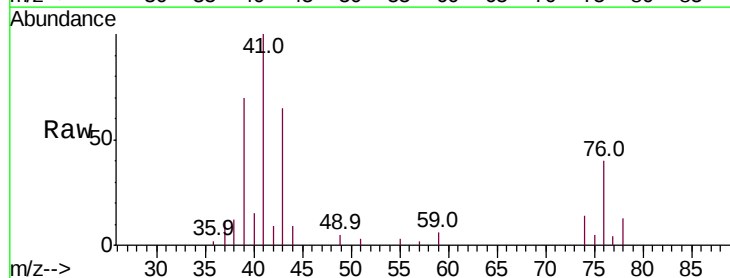
Manual Integrations
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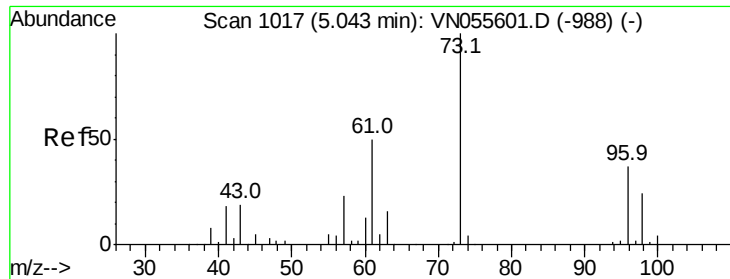
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#18
Methyl Acetate
Concen: 6.732 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	43	Ratio	Lower	Upper
43	100			
74	22.3		19.9	29.9





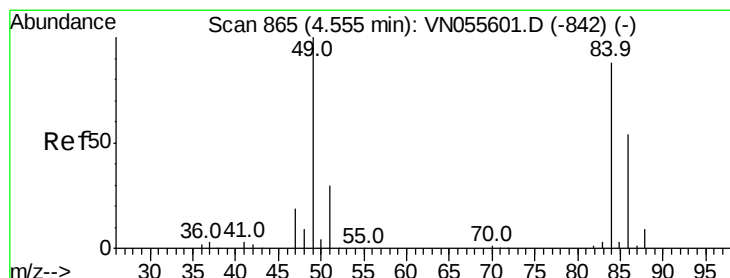
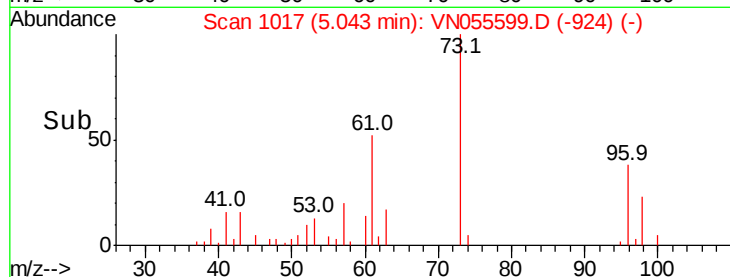
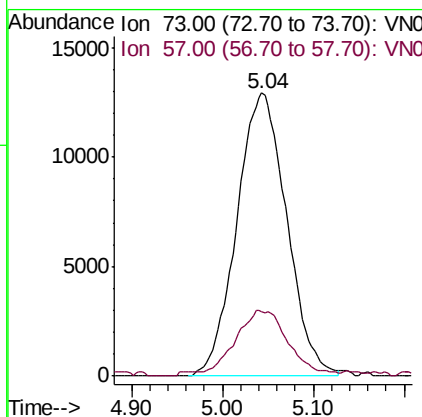
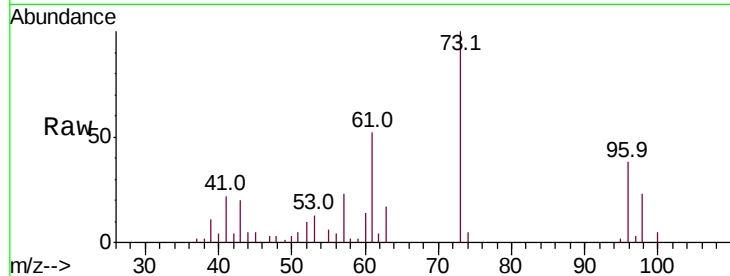
#19
Methvl tert-butvl Ether
Concen: 6.266 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 49095
Ion Ratio Lower Upper
73 100
57 21.4 18.2 27.2

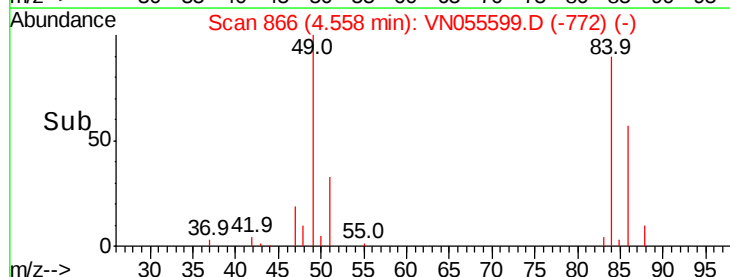
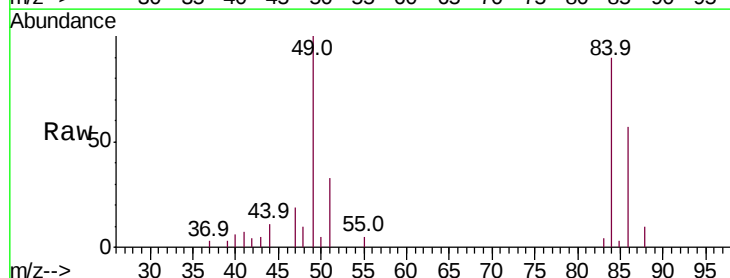
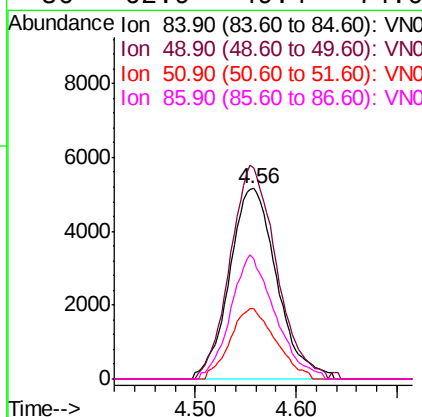
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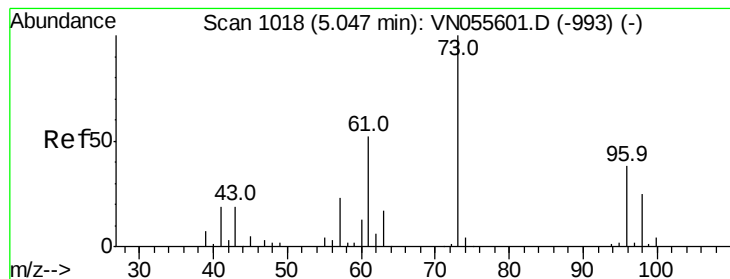
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#20
Methylene Chloride
Concen: 5.013 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion: 84 Resp: 16825
Ion Ratio Lower Upper
84 100
49 111.1 91.0 136.4
51 36.8 27.5 41.3
86 62.9 49.4 74.0





#21

trans-1,2-Dichloroethene

Concen: 5.229 ug/l

RT: 5.05 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 16255

Ion Ratio Lower Upper

96 100

61 129.0 108.6 162.8

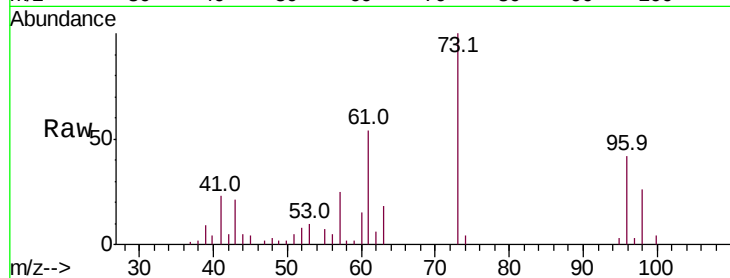
98 62.2 51.4 77.0

Manual Integrations

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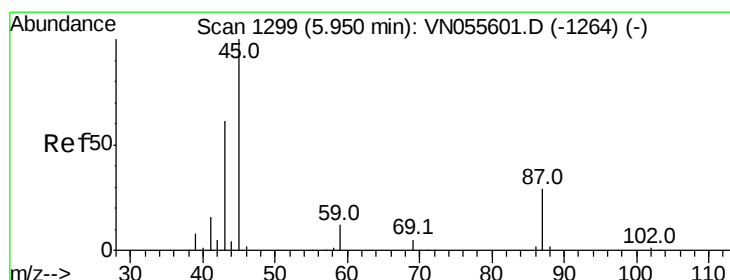
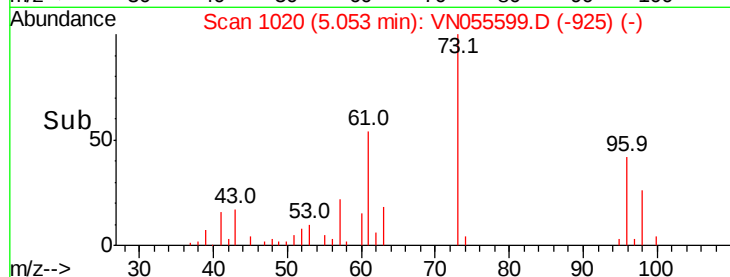
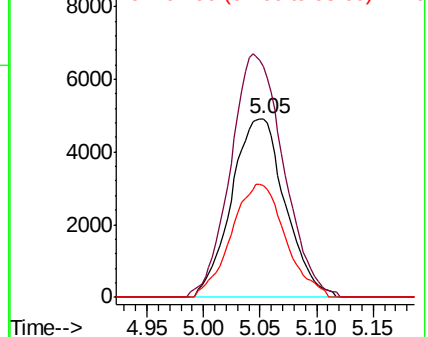


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 5.607 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Tgt Ion: 45 Resp: 47404

Ion Ratio Lower Upper

45 100

43 69.4 50.4 75.6

87 30.3 23.8 35.6

59 11.1 9.5 14.3

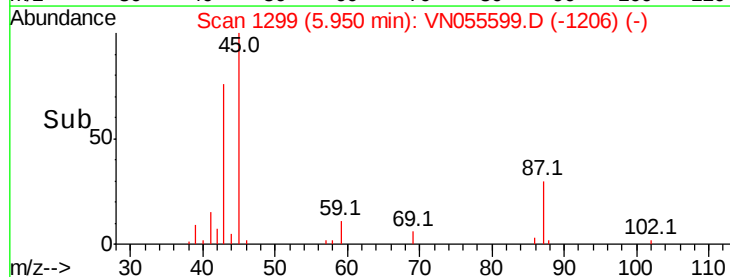
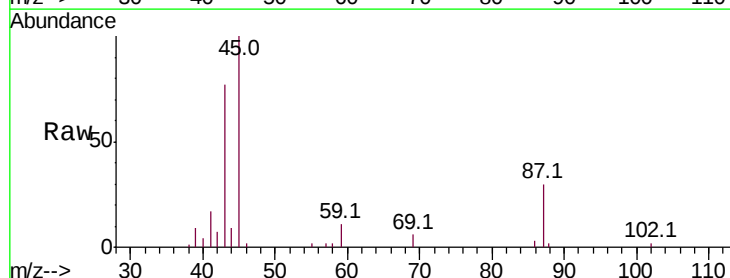
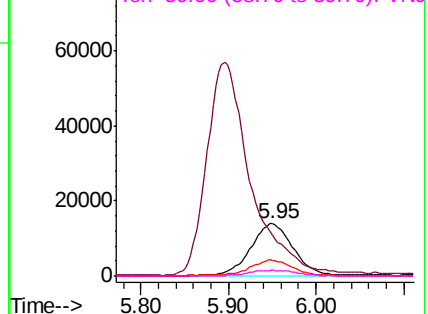
Abundance

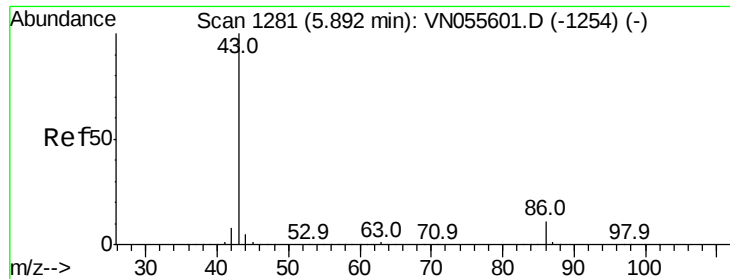
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 31.586 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 199042

Ion Ratio Lower Upper

43 100

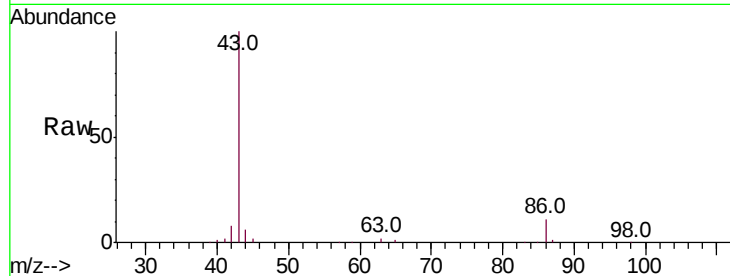
86 10.9 8.7 13.1

Manual Integrations

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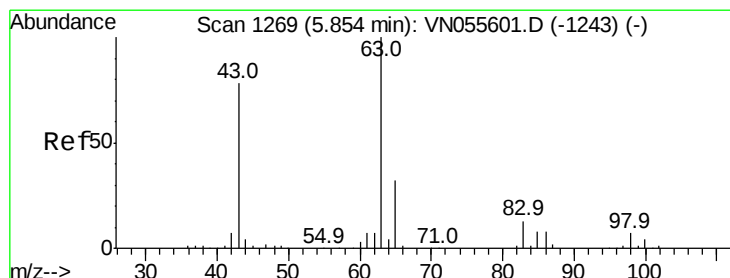
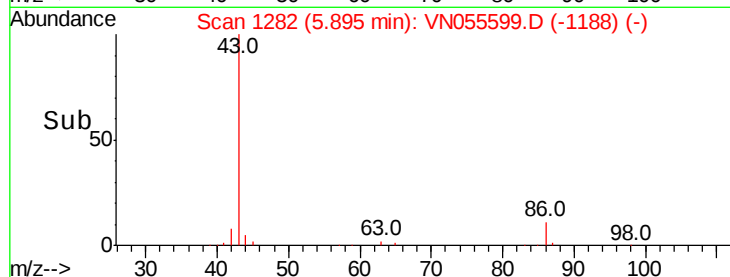
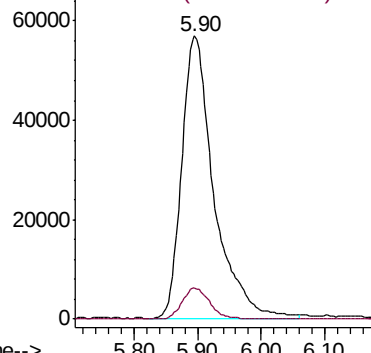
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 4.970 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

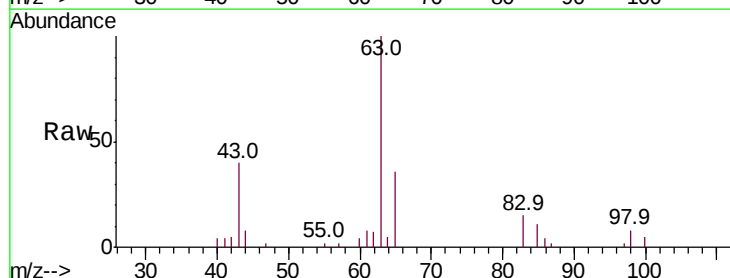
Tgt Ion: 63 Resp: 28117

Ion Ratio Lower Upper

63 100

98 8.2 3.4 10.2

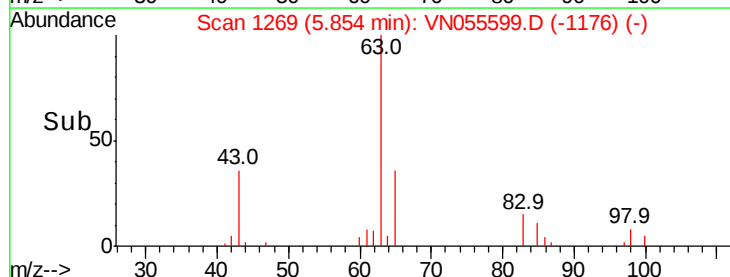
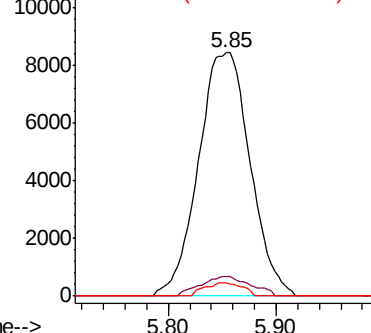
100 5.3 2.2 6.6

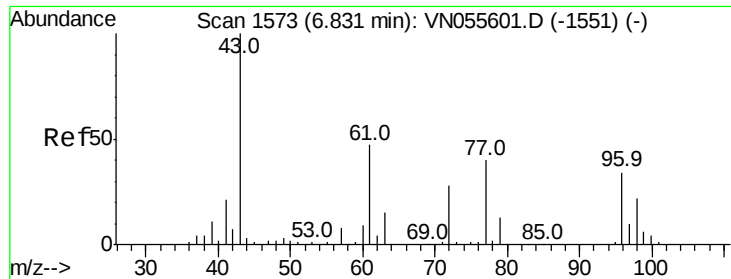


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





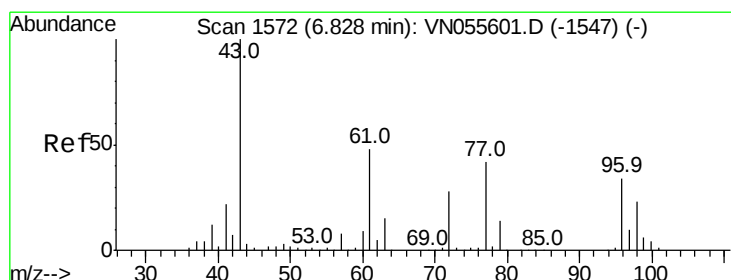
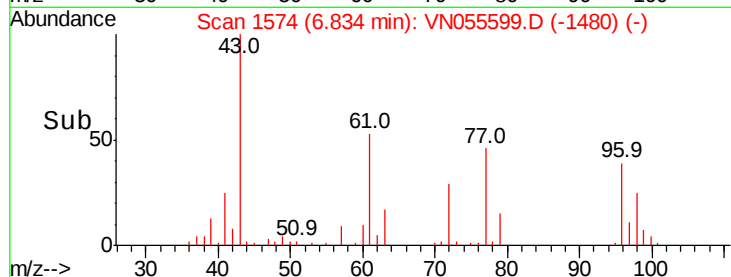
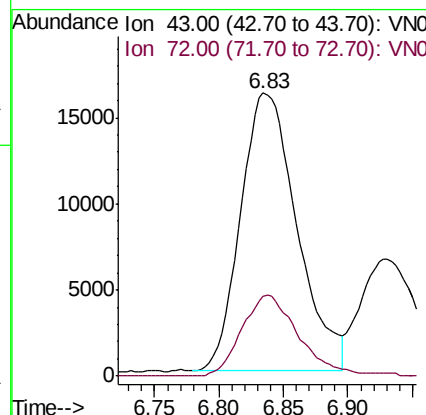
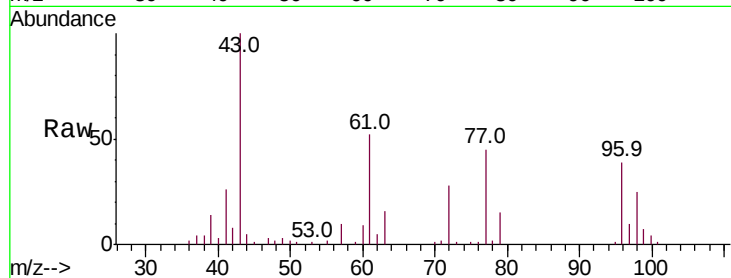
#25
2-Butanone
Concen: 37.592 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 49105
Ion Ratio Lower Upper
43 100
72 28.7 22.3 33.5

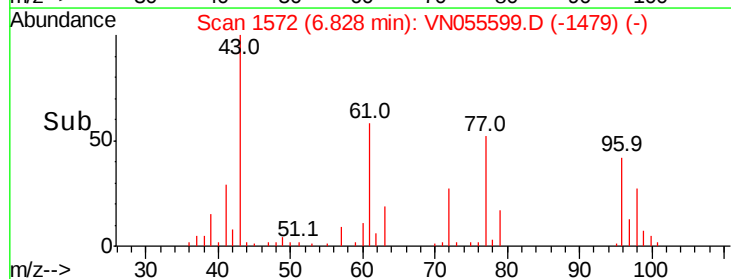
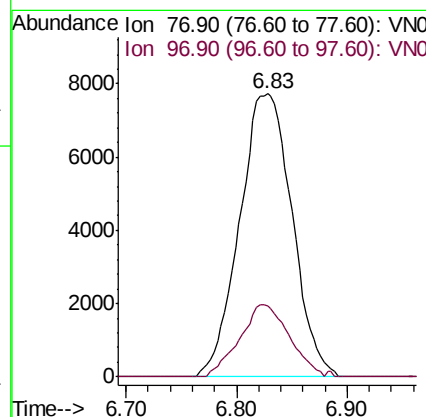
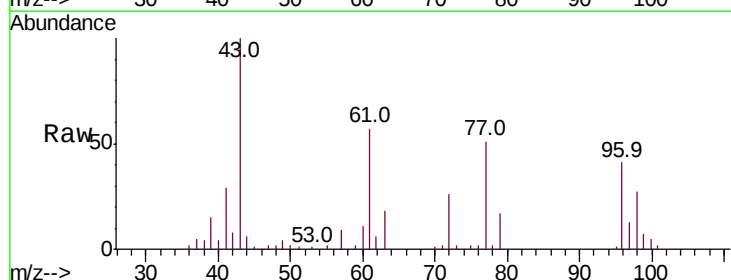
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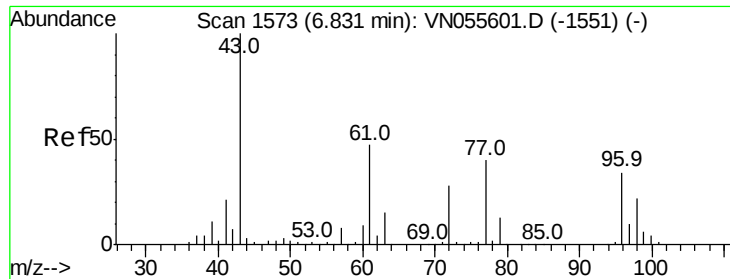
MMDadoda
5/20/2019 9:09:50 AM



#26
2,2-Dichloropropane
Concen: 5.808 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion: 77 Resp: 25436
Ion Ratio Lower Upper
77 100
97 24.1 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 5.368 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

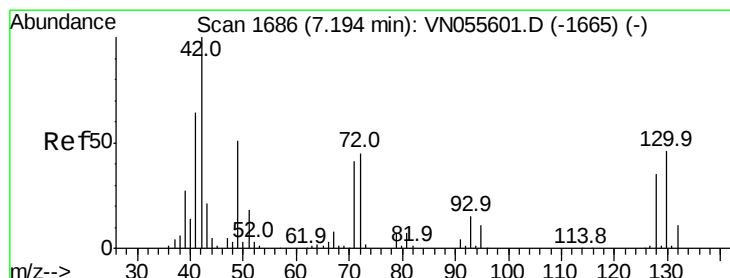
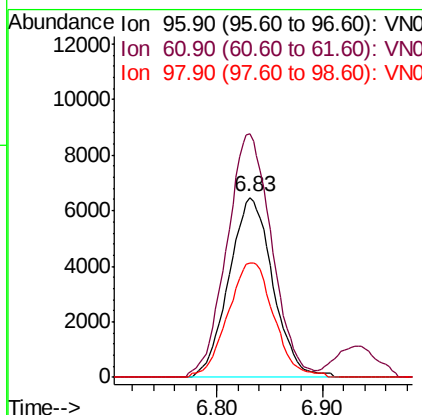
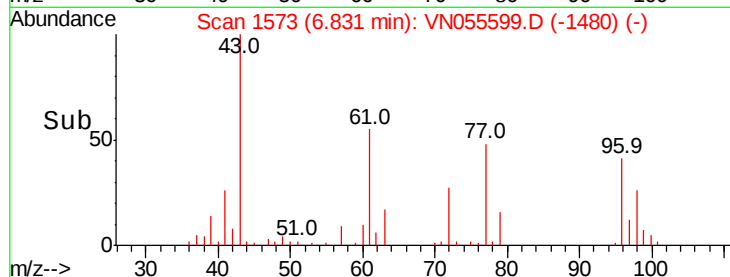
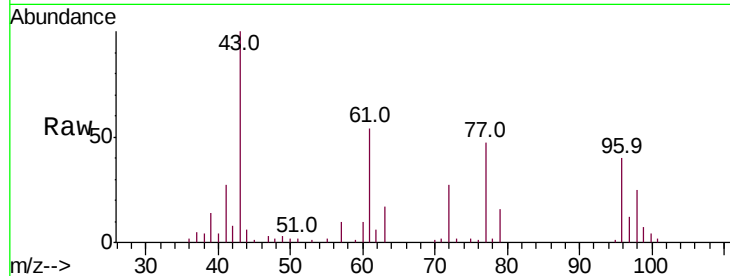
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	18770
Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	279.0
98	66.6	0.0	131.6

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#28

Bromochloromethane

Concen: 4.946 ug/l

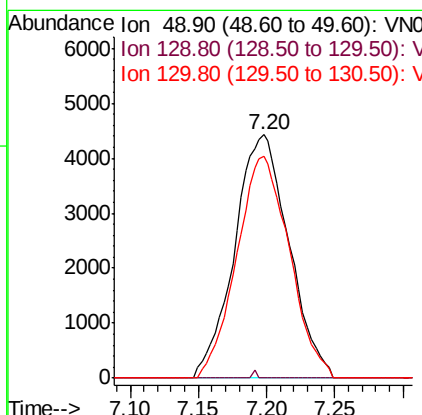
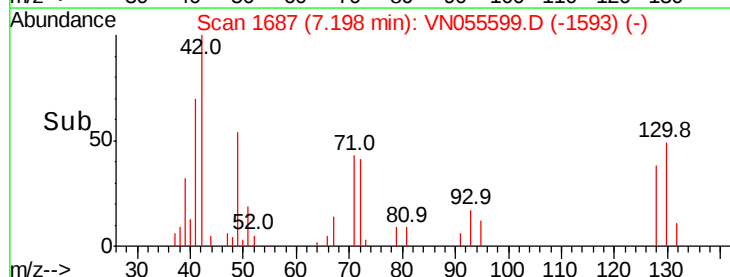
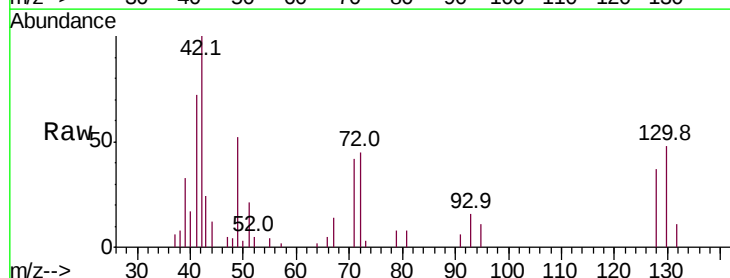
RT: 7.20 min Scan# 1687

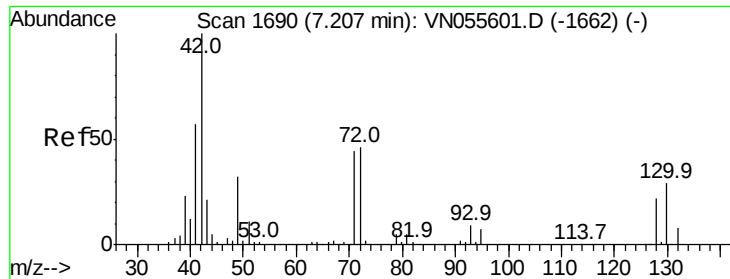
Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Tgt Ion:	49	Resp:	12220
Ion	Ratio	Lower	Upper
49	100		
129	0.2	0.0	4.4
130	88.6	71.0	106.6





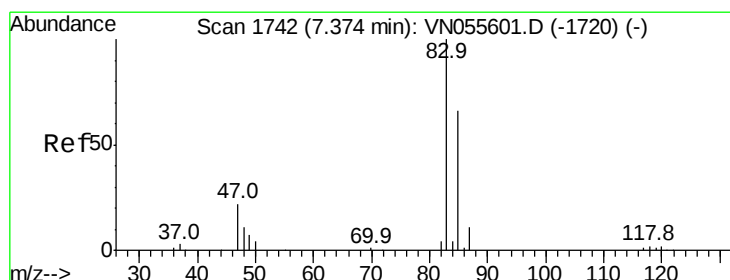
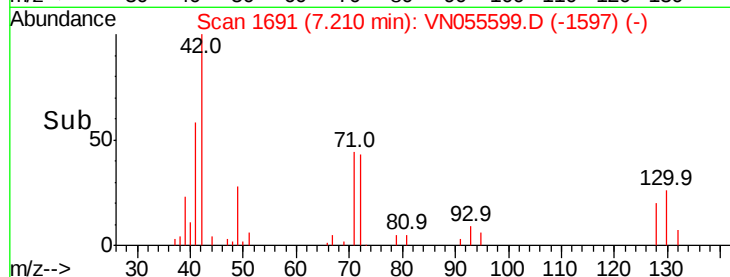
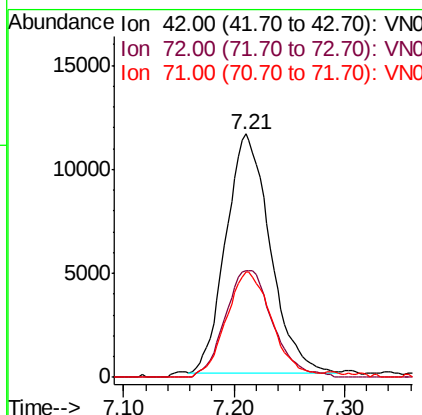
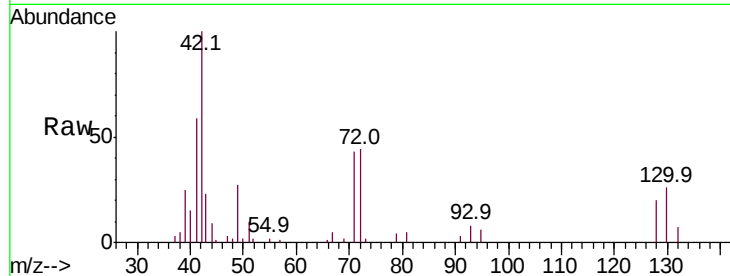
#29
Tetrahydrofuran
Concen: 37.864 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.2	36.5	54.7
71	45.6	34.9	52.3

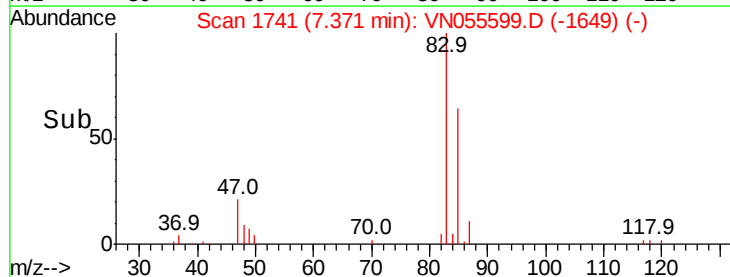
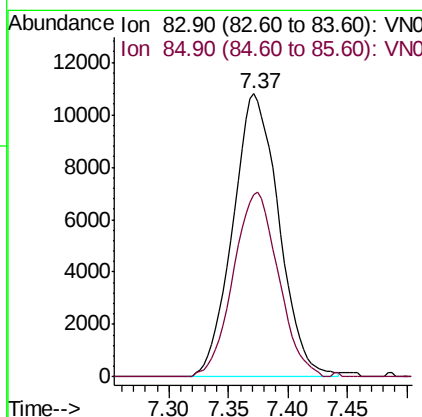
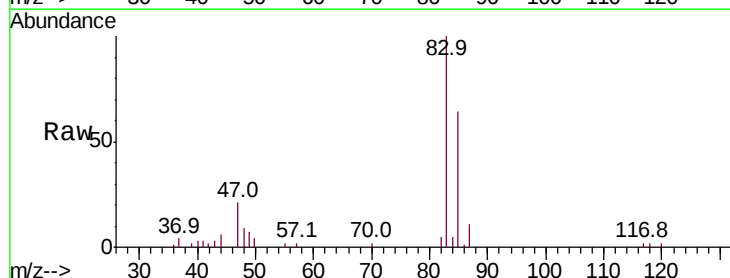
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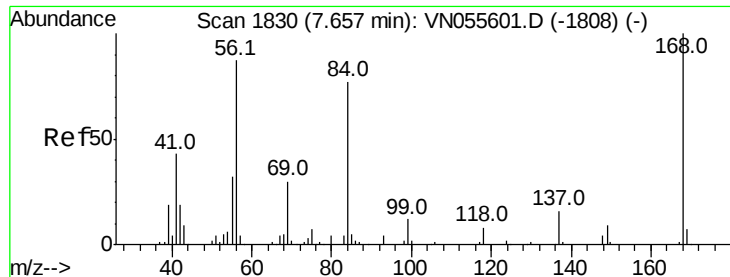
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#30
Chloroform
Concen: 5.105 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.6	78.8





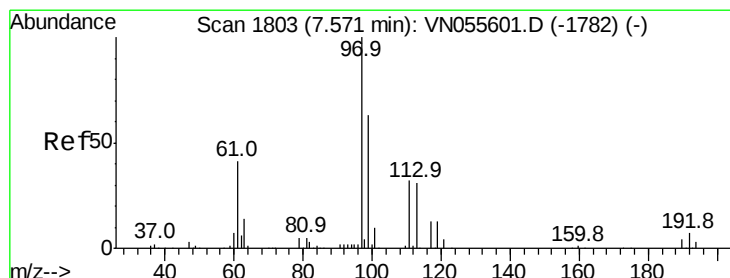
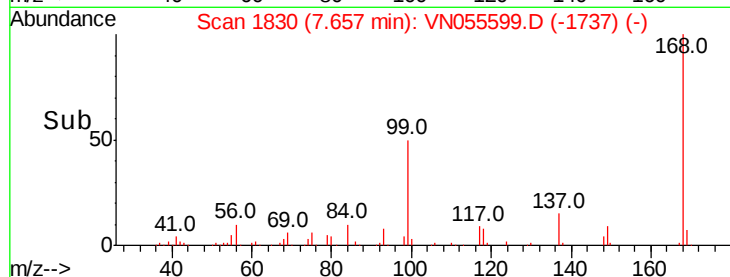
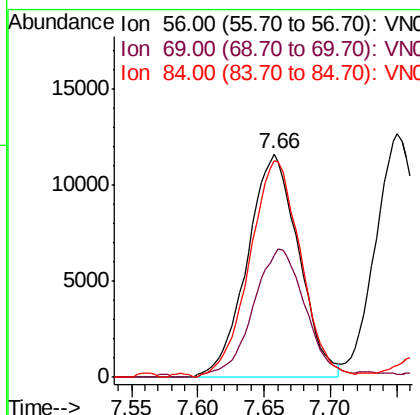
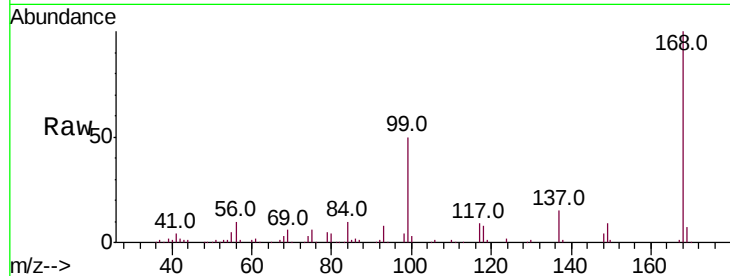
#31
Cyclohexane
Concen: 5.312 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	54.9	27.2	40.8#
84	95.9	71.3	106.9

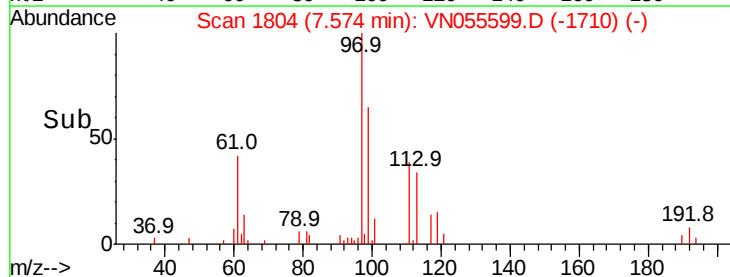
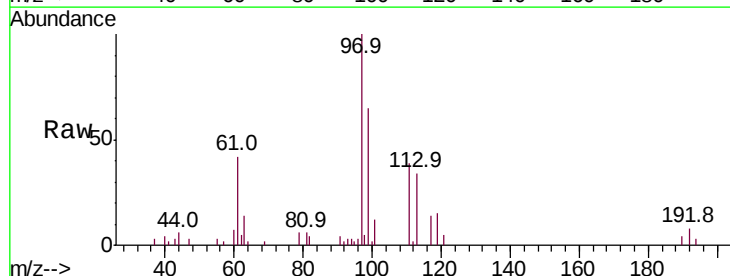
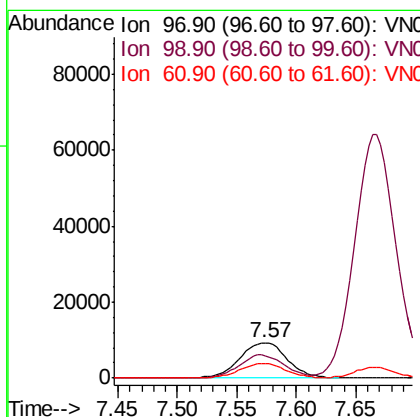
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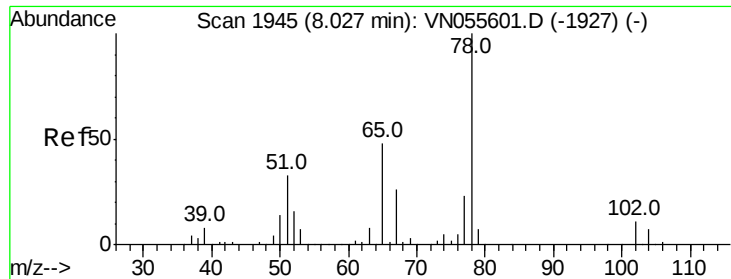
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#32
1,1,1-Trichloroethane
Concen: 5.293 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.4	51.4	77.2
61	40.9	32.9	49.3





#33

1,2-Dichloroethane-d4

Concen: 5.163 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 17162

Ion Ratio Lower Upper

65 100

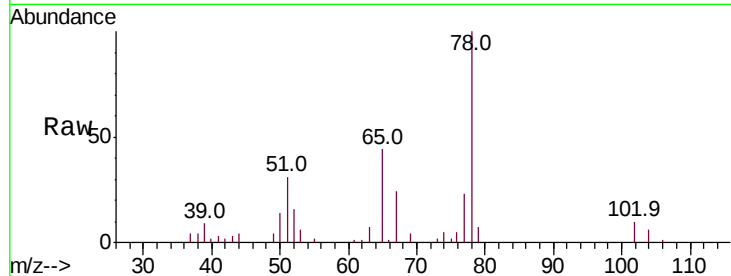
67 54.0 0.0 108.6

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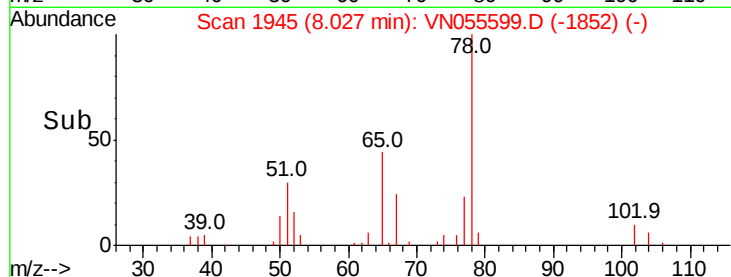


Abundance Ion 64.90 (64.60 to 65.60): VN055599.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN055599.D (-1852) (-)

8.03

Time-->



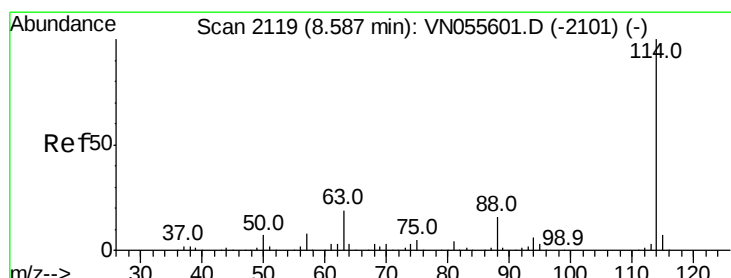
Abundance

Ion 64.90 (64.60 to 65.60): VN055599.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN055599.D (-1852) (-)

8.03

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

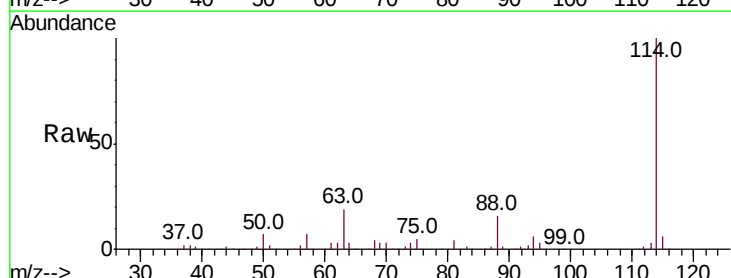
Tgt Ion: 114 Resp: 488718

Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.2

88 15.7 0.0 31.0



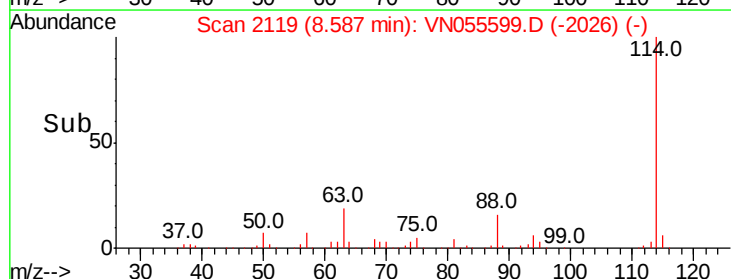
Abundance Ion 113.90 (113.60 to 114.60): VN055599.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN055599.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN055599.D (-2026) (-)

8.59

Time-->



Abundance

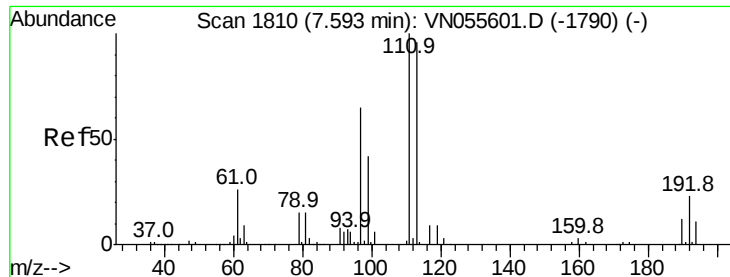
Ion 113.90 (113.60 to 114.60): VN055599.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN055599.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN055599.D (-2026) (-)

8.59

Time-->



#35

Dibromofluoromethane

Concen: 4.580 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

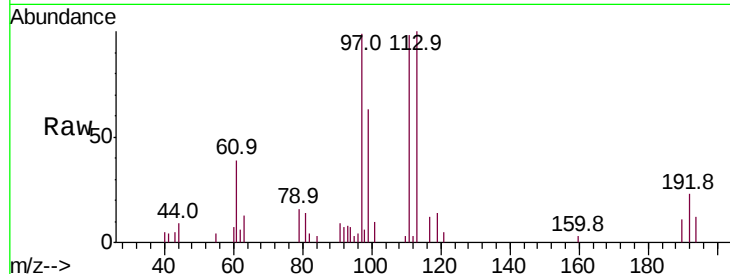
ClientSampleId :

VSTDIC005

Tot Ion:	113	Resp:	14698
Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.5	123.7
192	23.5	18.7	28.1

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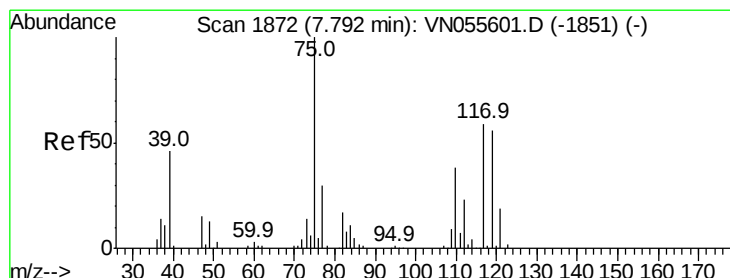
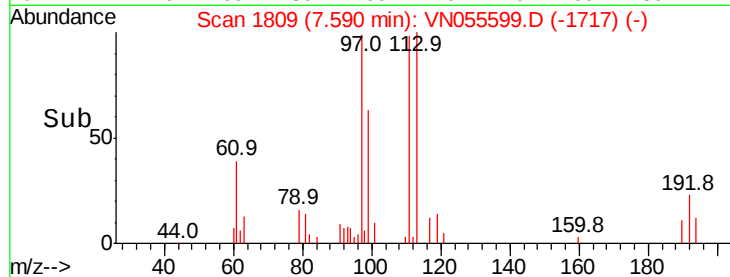
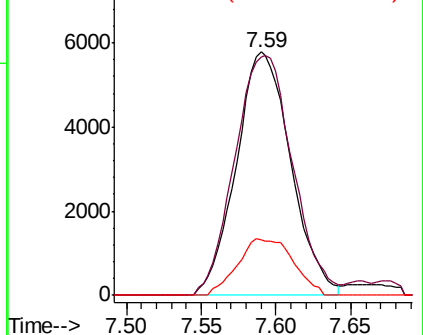


Abundance

Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.782 ug/l

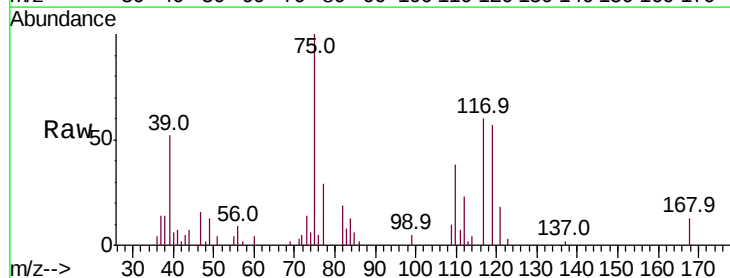
RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Tgt Ion:	75	Resp:	21362
Ion	Ratio	Lower	Upper
75	100		
110	38.5	18.6	55.6
77	30.8	24.9	37.3

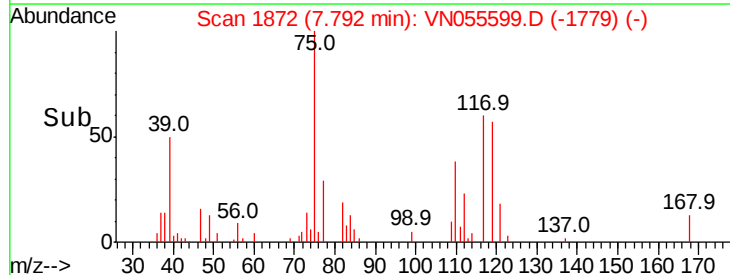
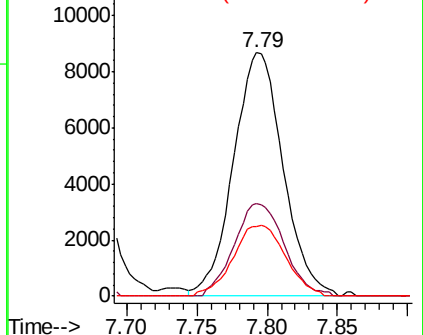


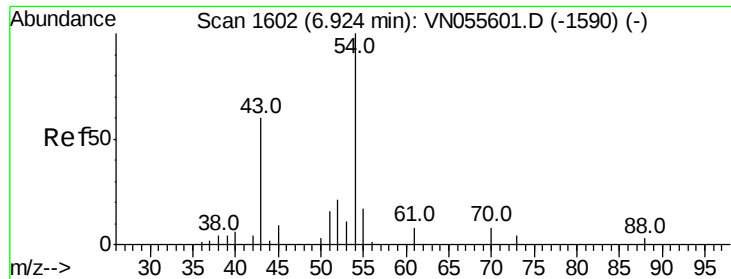
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





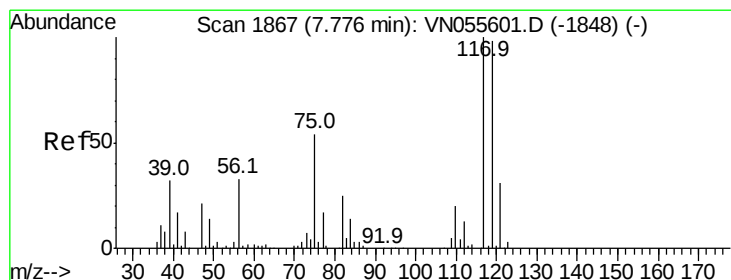
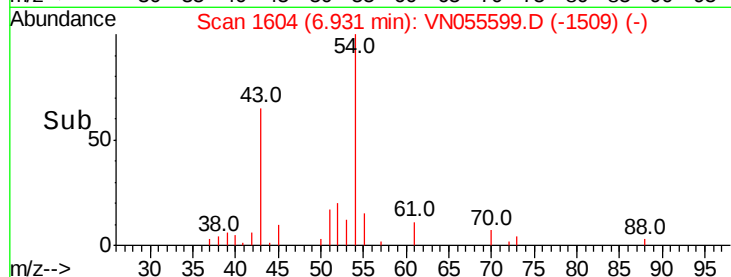
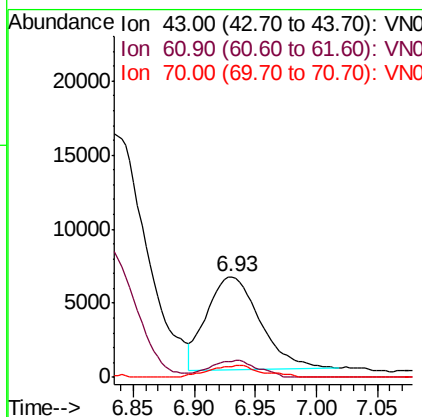
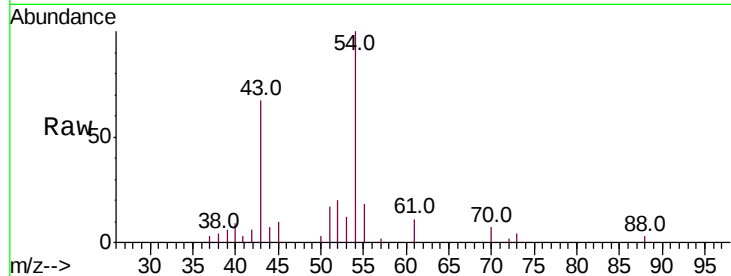
#37
Ethyl Acetate
Concen: 6.961 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.01 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.6	11.4	17.0
70	12.7	9.2	13.8

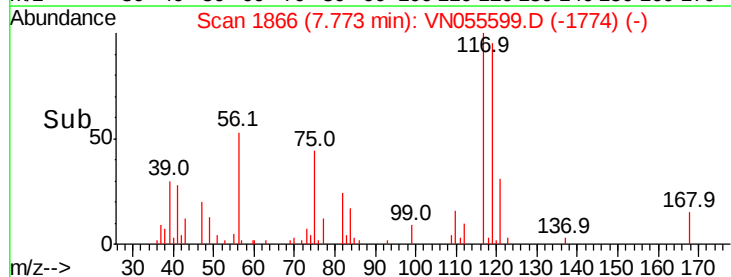
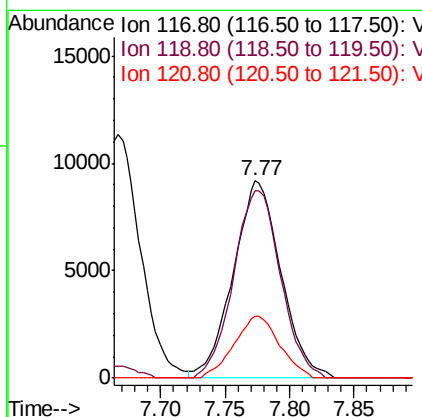
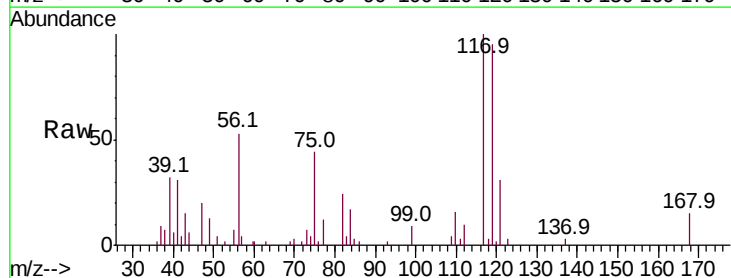
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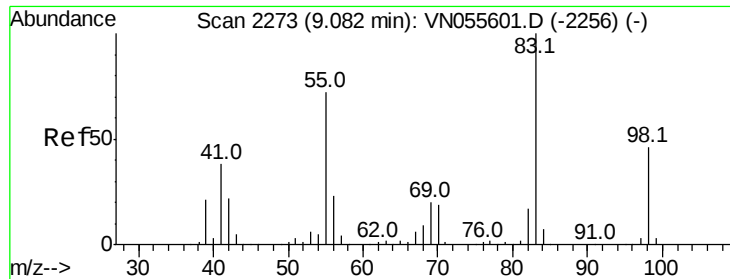
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#38
Carbon Tetrachloride
Concen: 4.922 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.8	116.8
121	31.2	24.6	37.0





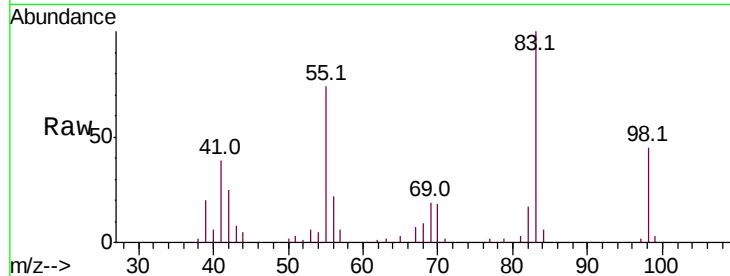
#39
Methvlcvclohexane
Concen: 5.275 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

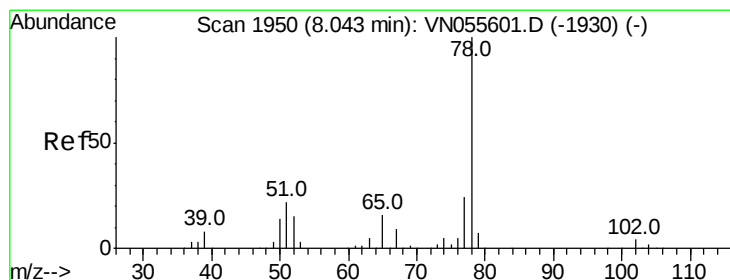
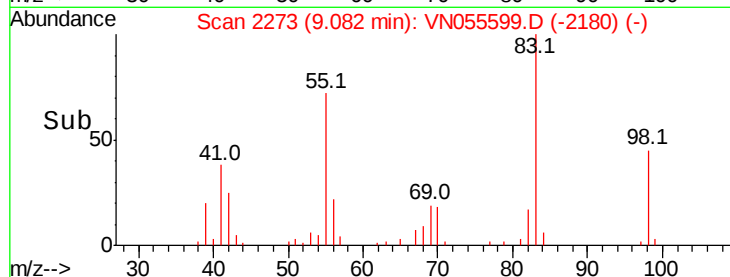
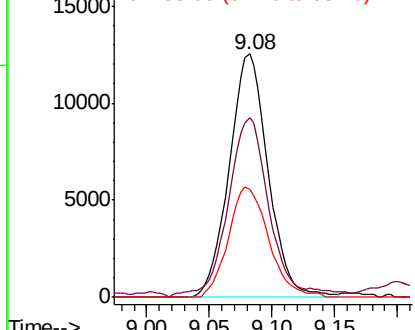
Tot Ion	Ratio	Lower	Upper
83	100		
55	71.5	57.8	86.6
98	44.6	36.7	55.1

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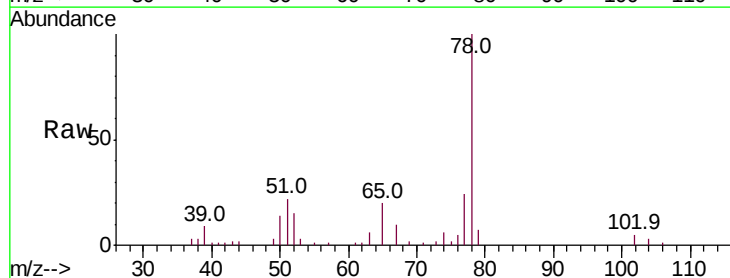


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

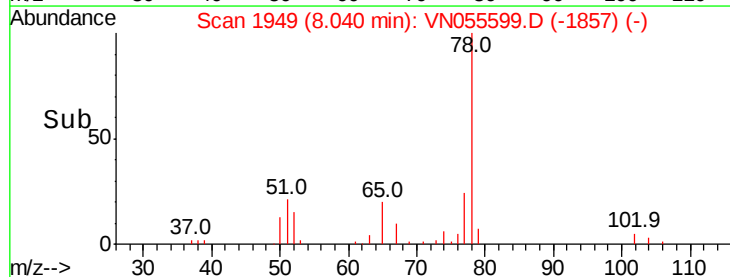
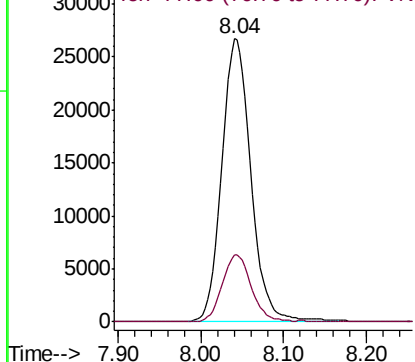


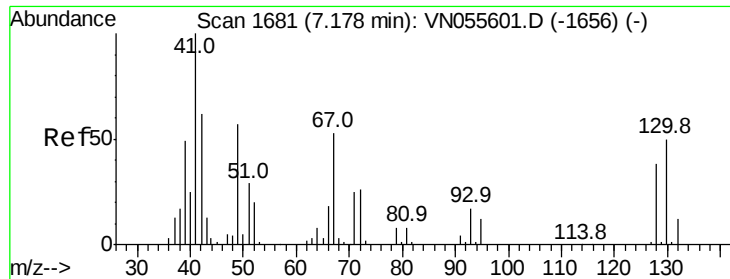
#40
Benzene
Concen: 4.973 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.9	28.3



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





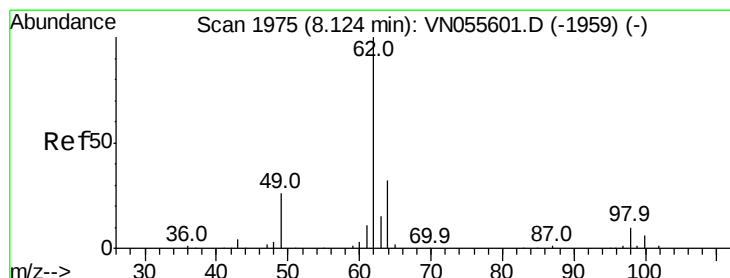
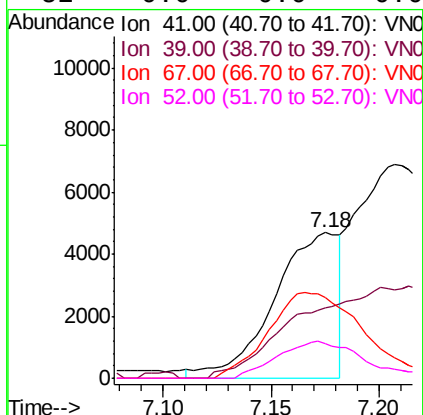
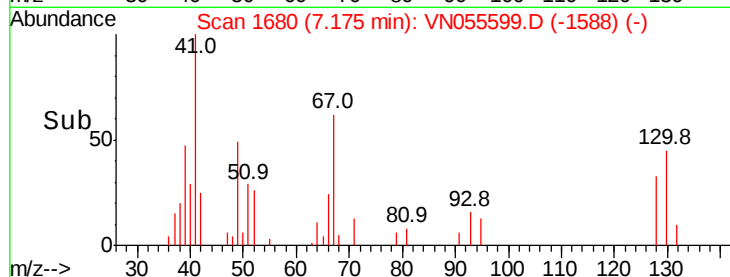
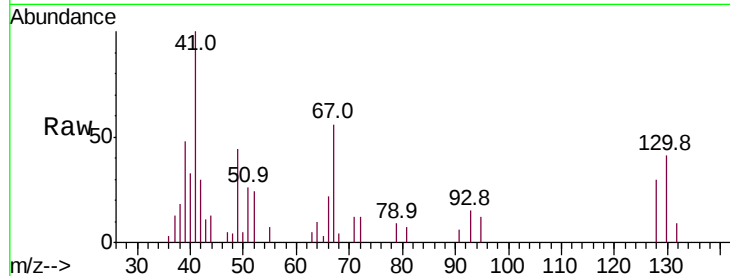
#41
Methacrylonitrile
Concen: 7.022 ug/l m
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	147.5	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

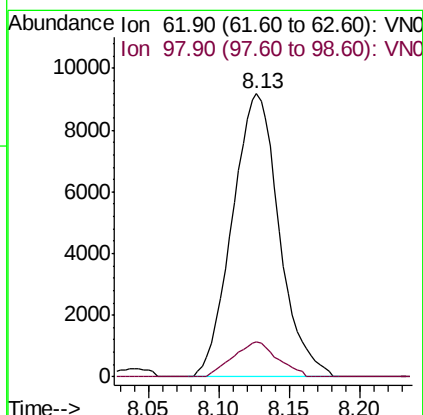
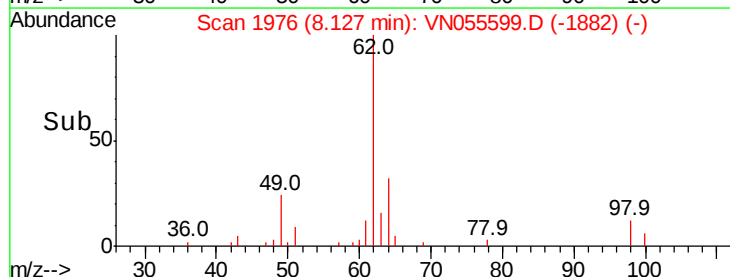
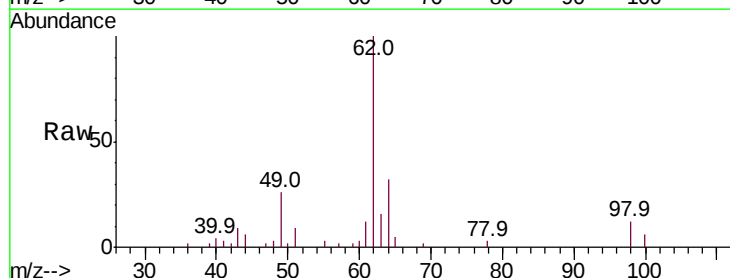
Manual Integrations
APPROVED

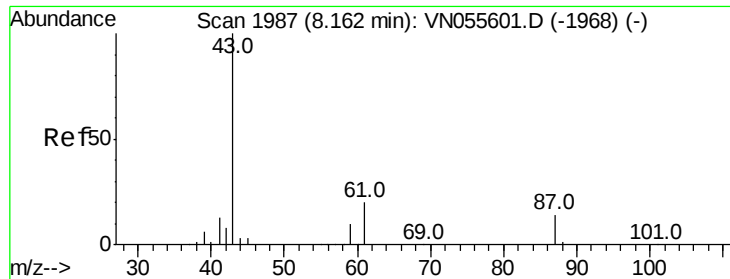
MMDadoda
5/20/2019 9:09:50 AM



#42
1,2-Dichloroethane
Concen: 5.339 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.7	0.0	20.2





#43

Isopropyl Acetate

Concen: 6.467 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

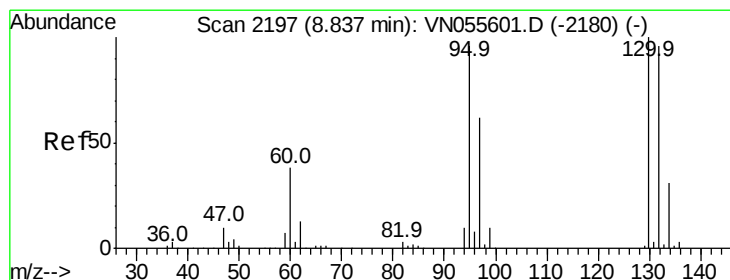
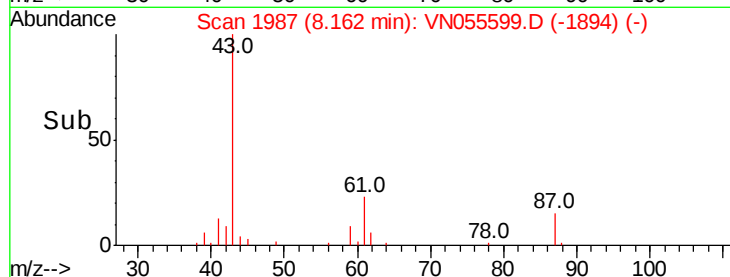
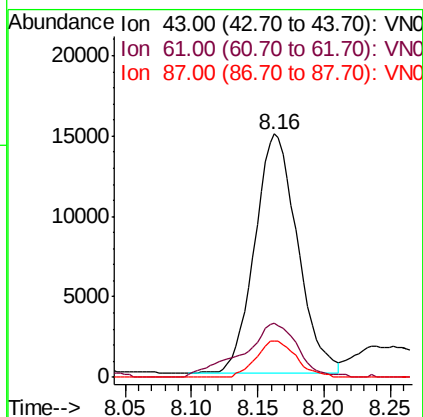
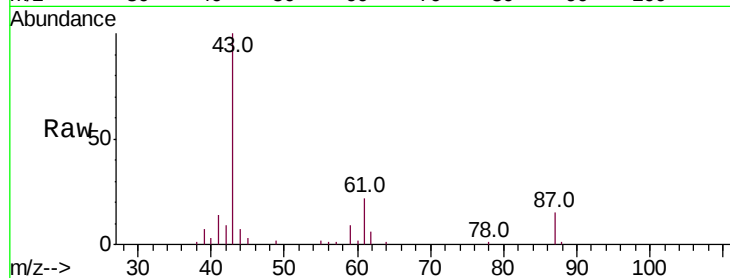
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	33417
Ion Ratio	Lower	Upper	
43	100		
61	28.9	22.1	33.1
87	14.3	11.8	17.6

Manual Integrations
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MMDadoda
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#44

Trichloroethene

Concen: 4.945 ug/l

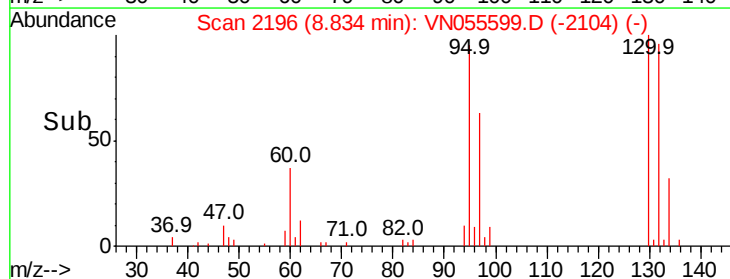
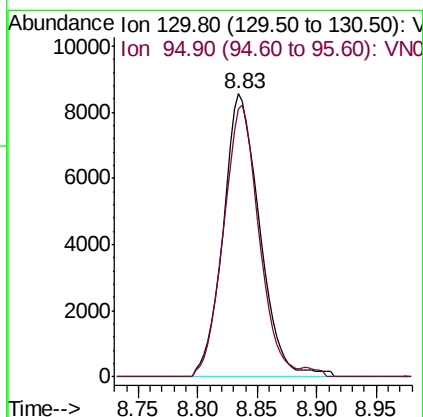
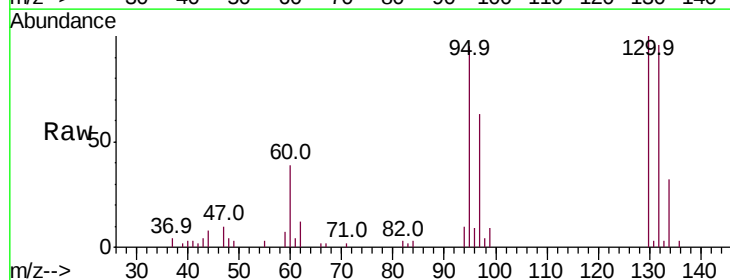
RT: 8.83 min Scan# 2196

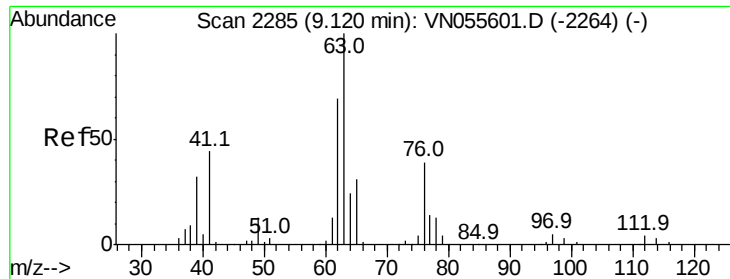
Delta R.T. -0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Tgt Ion:	130	Resp:	18191
Ion Ratio	Lower	Upper	
130	100		
95	94.8	0.0	191.0





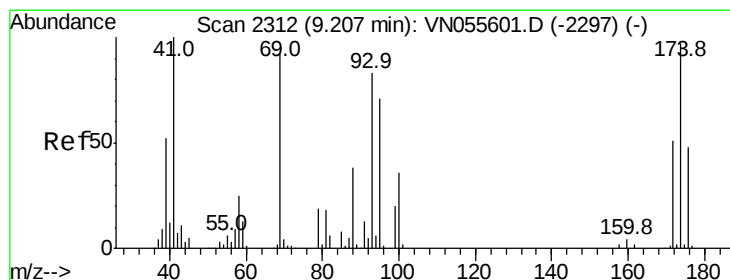
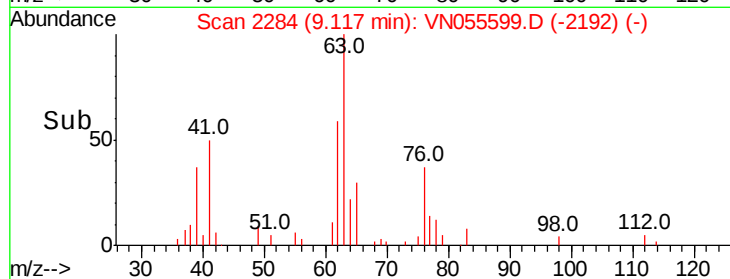
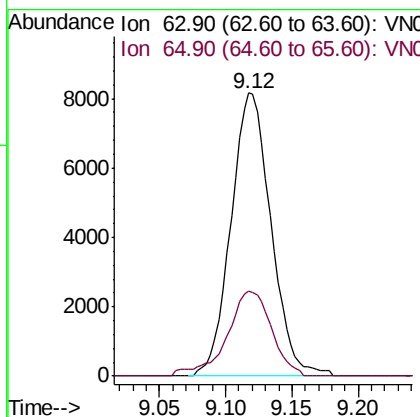
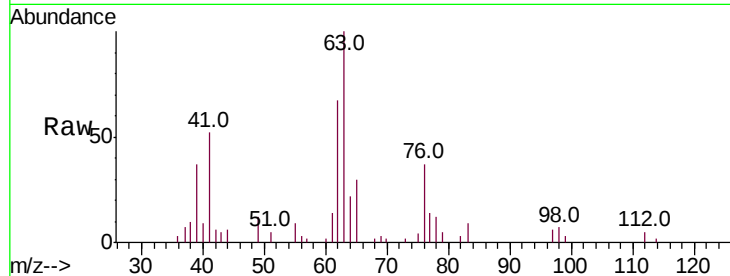
#45
 1,2-Dichloropropane
 Concen: 5.094 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.0	25.2	37.8

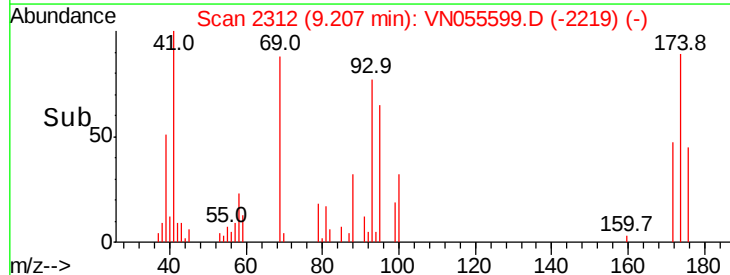
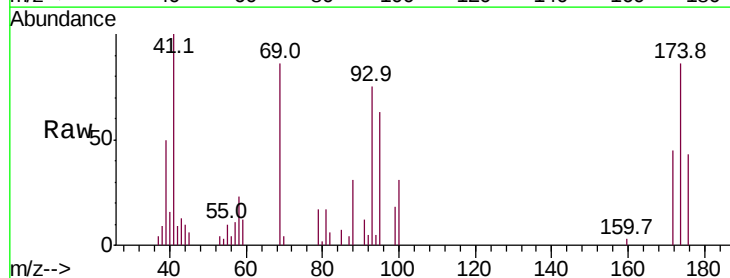
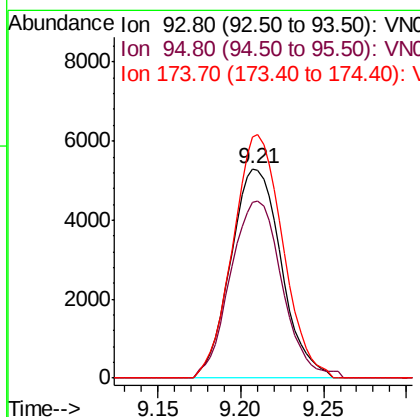
Manual Integrations
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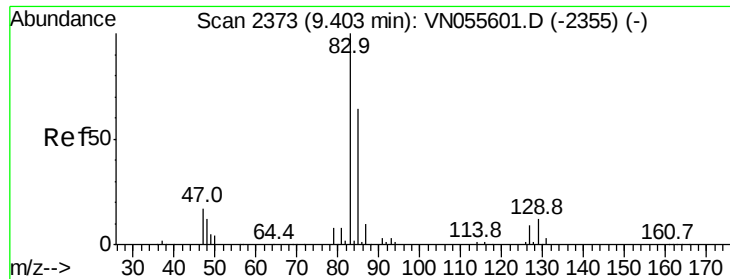
MMDadoda
 5/20/2019 9:09:50 AM



#46
 Dibromomethane
 Concen: 5.474 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
93	100		
95	86.2	67.9	101.9
174	114.5	93.8	140.6





#47

Bromodichloromethane

Concen: 5.349 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

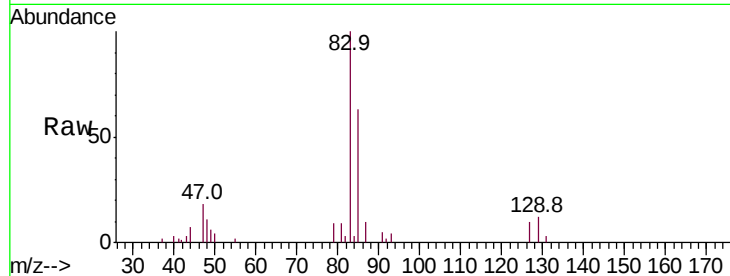
ClientSampled :

VSTDIC005

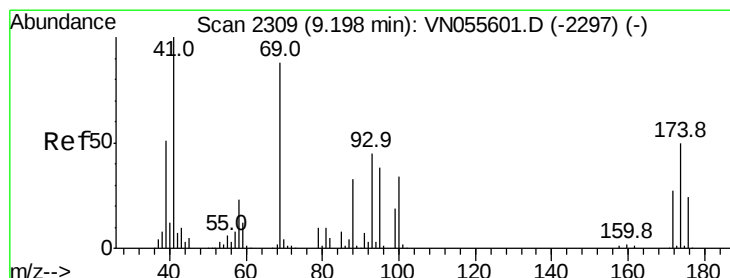
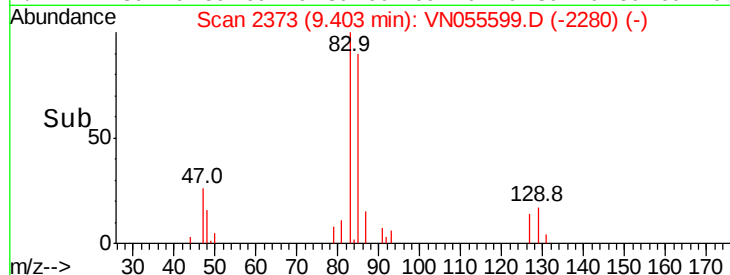
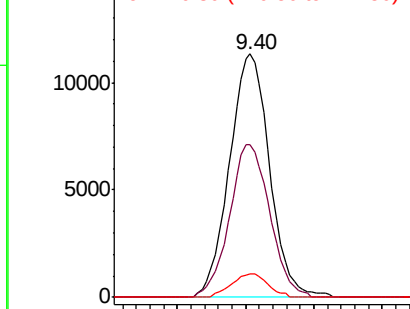
Tot Ion:	83	Resp:	23101
Ion Ratio	Lower	Upper	
83	100		
85	62.7	51.4	77.0
127	9.6	7.1	10.7

Manual Integrations
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MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 6.788 ug/l

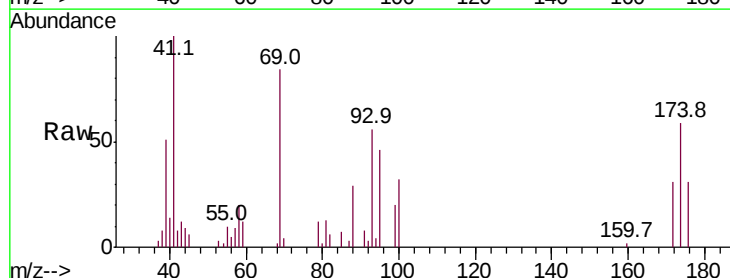
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

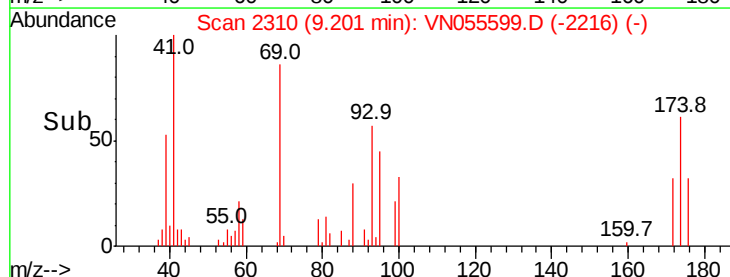
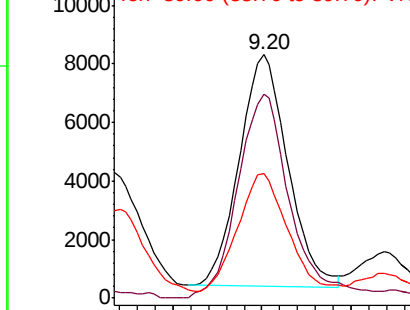
Lab File: VN055599.D

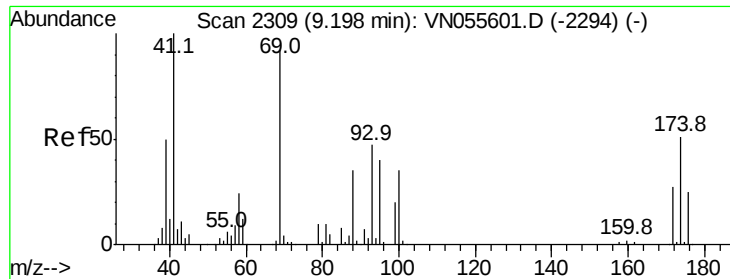
Acq: 17 May 2019 9:53

Tgt Ion:	41	Resp:	15100
Ion Ratio	Lower	Upper	
41	100		
69	94.5	74.2	111.2
39	55.7	43.8	65.8



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





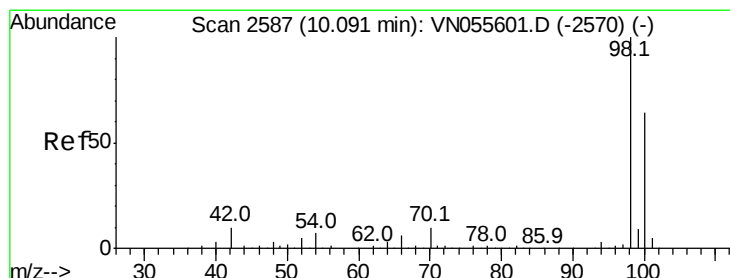
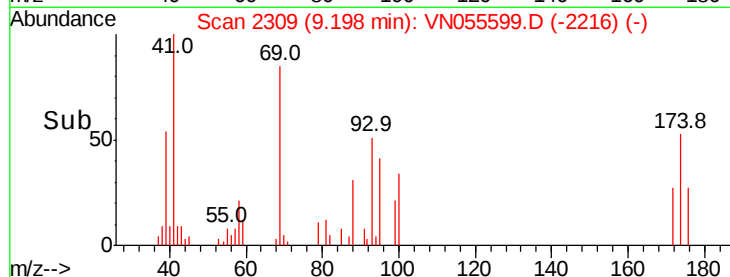
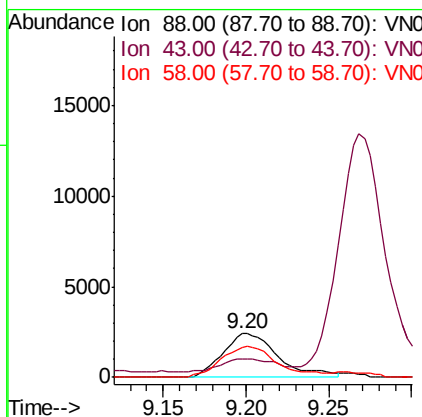
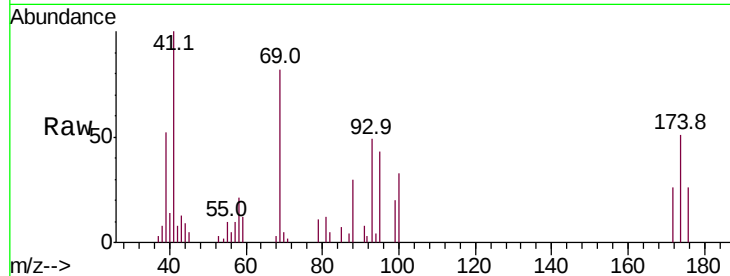
#49
1,4-Dioxane
Concen: 154.837 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.2	22.4	33.6
58	72.3	53.4	80.2

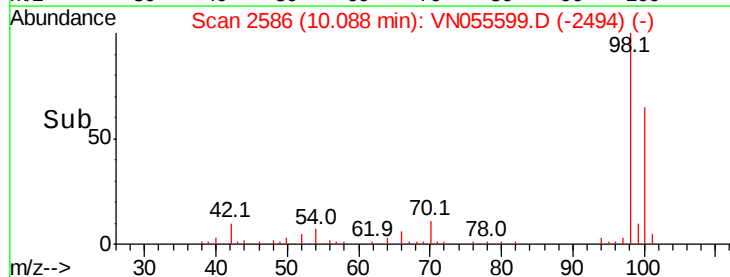
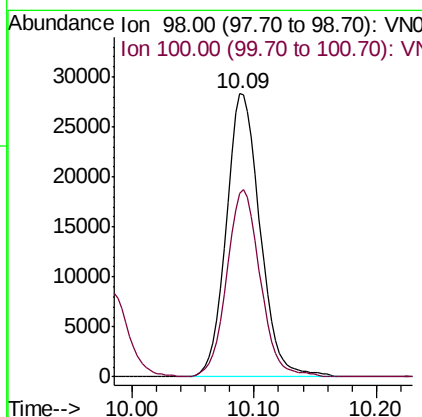
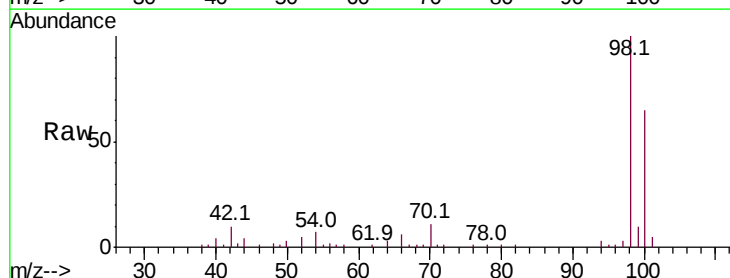
Manual Integrations
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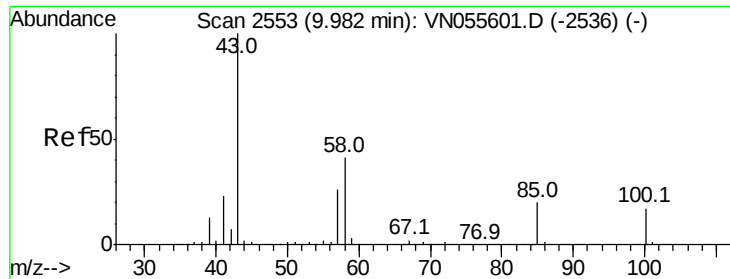
MMDadoda
5/20/2019 9:09:50 AM



#50
Toluene-d8
Concen: 4.762 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.5	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 40.238 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 99119

Ion Ratio Lower Upper

43 100

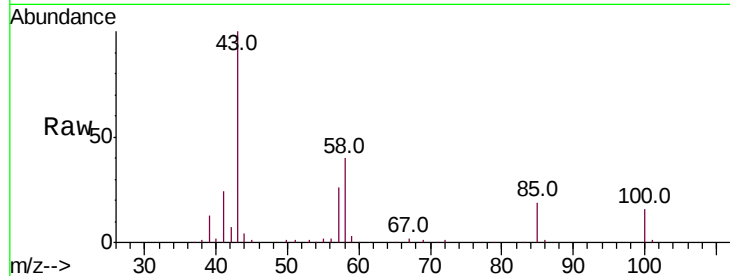
58 40.6 32.7 49.1

Manual Integrations

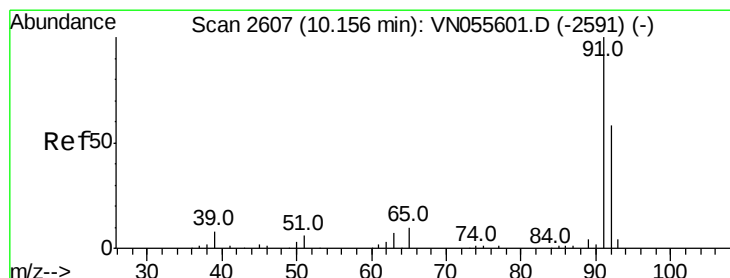
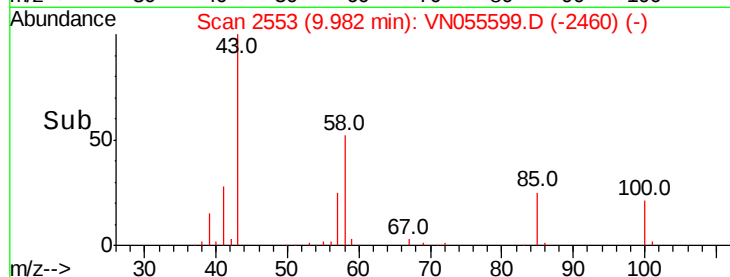
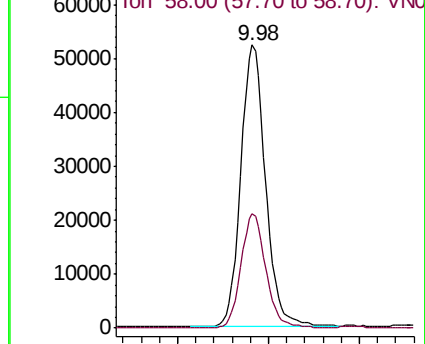
APPROVED

MMDadoda

5/20/2019 9:09:50 AM



Abundance Ion 43.00 (42.70 to 43.70): VN055599.D (-2460) (-)



#52

Toluene

Concen: 5.071 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055599.D

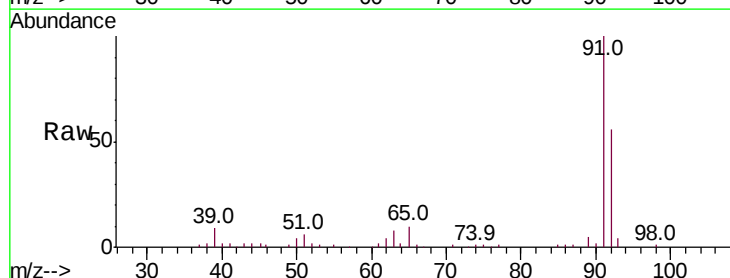
Acq: 17 May 2019 9:53

Tgt Ion: 92 Resp: 39337

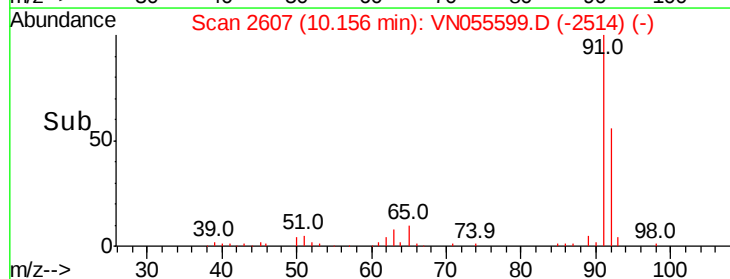
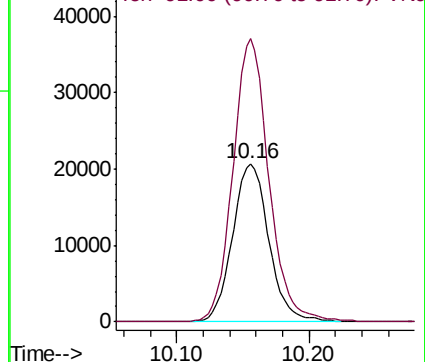
Ion Ratio Lower Upper

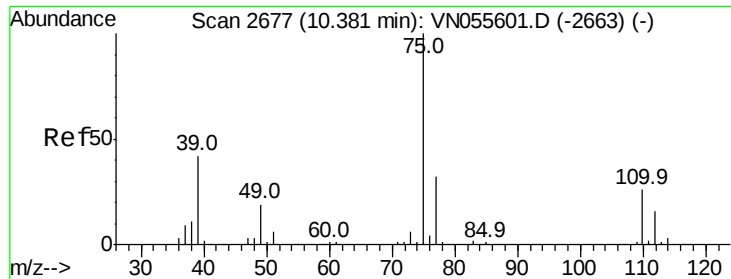
92 100

91 177.2 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VN055599.D (-2514) (-)





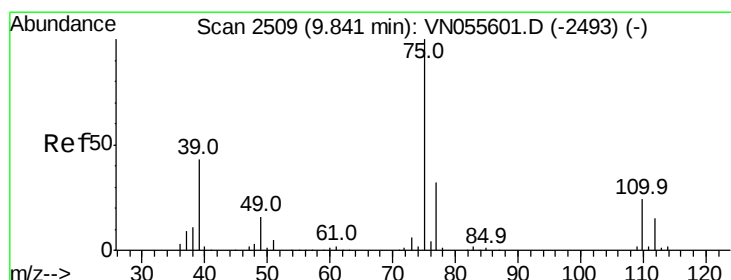
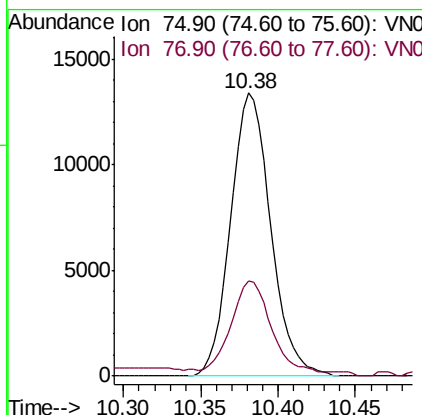
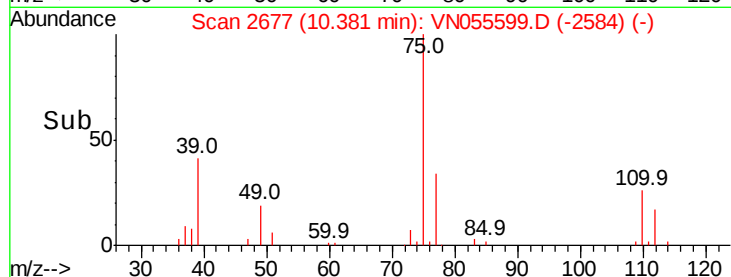
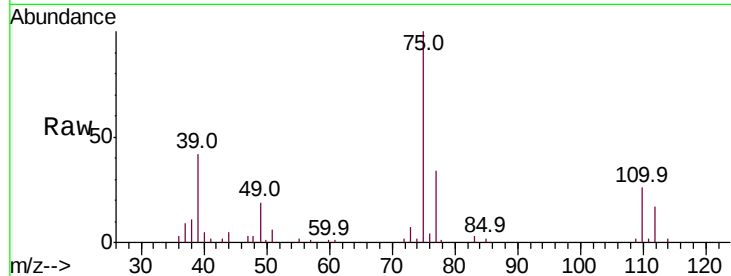
#53
 t-1,3-Dichloropropene
 Concen: 5.661 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 75 Resp: 24121
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.4 38.2

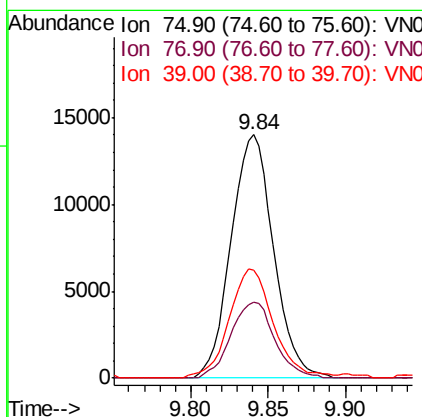
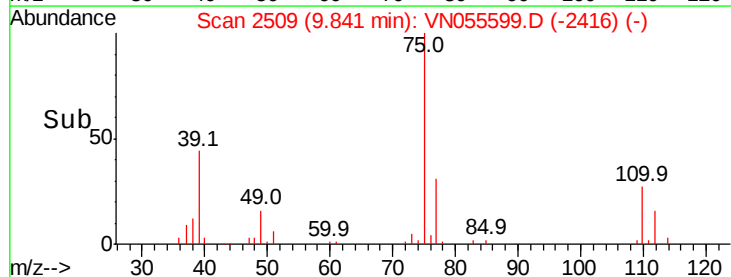
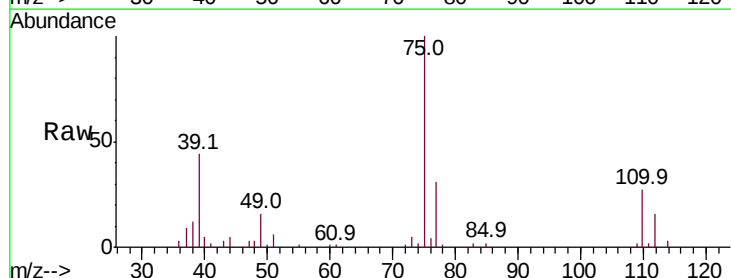
Manual Integrations
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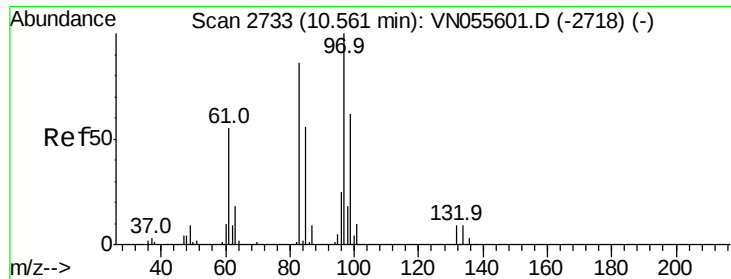
MMDadoda
 5/20/2019 9:09:50 AM



#54
 cis-1,3-Dichloropropene
 Concen: 5.446 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Tgt Ion: 75 Resp: 26763
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.7 38.5
 39 43.3 34.7 52.1





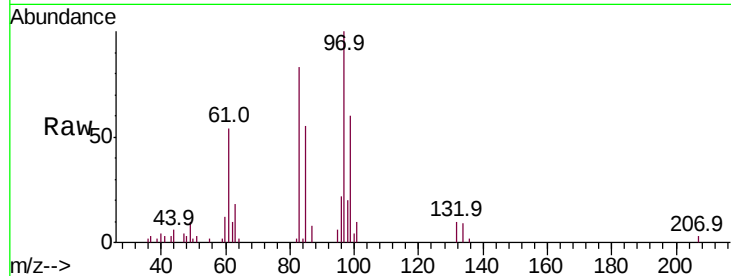
#55
 1,1,2-Trichloroethane
 Concen: 5.685 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion:	97	Resp:	16466
Ion	Ratio	Lower	Upper
97	100		
83	83.5	68.4	102.6
85	54.9	44.8	67.2
99	60.5	49.9	74.9

Manual Integrations
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MMDadoda
 5/20/2019 9:09:50 AM

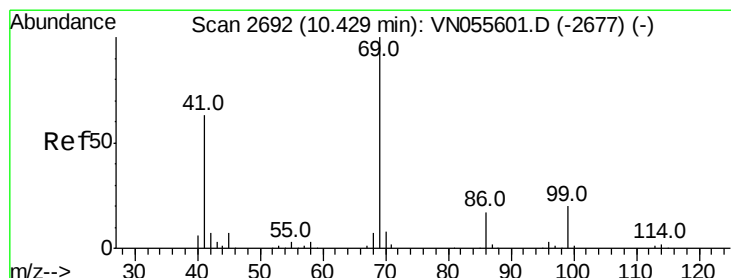
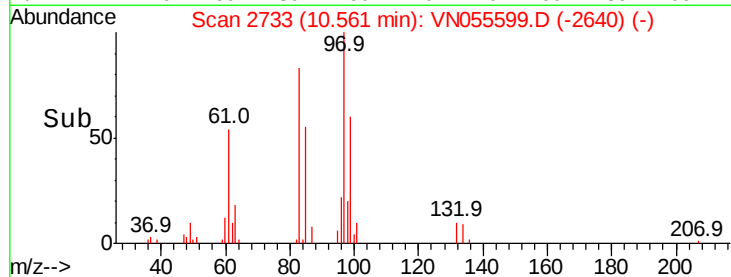
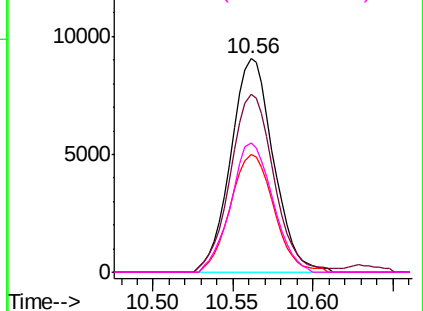


Abundance Ion 96.90 (96.60 to 97.60): VN055599.D (-2640) (-)

Ion 82.90 (82.60 to 83.60): VN055599.D (-2640) (-)

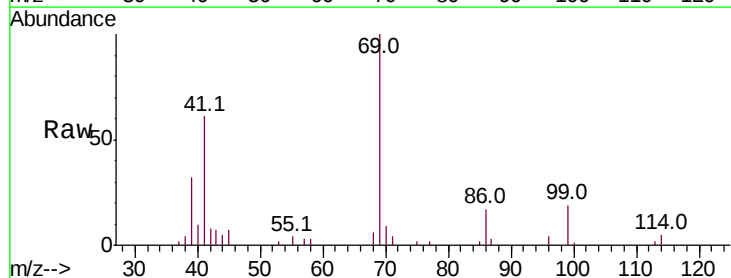
Ion 84.90 (84.60 to 85.60): VN055599.D (-2640) (-)

Ion 98.90 (98.60 to 99.60): VN055599.D (-2640) (-)



#56
 Ethyl methacrylate
 Concen: 6.955 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

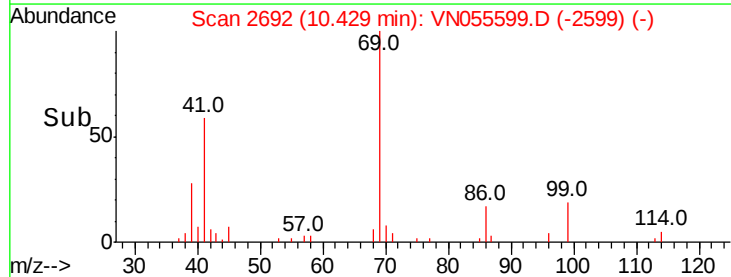
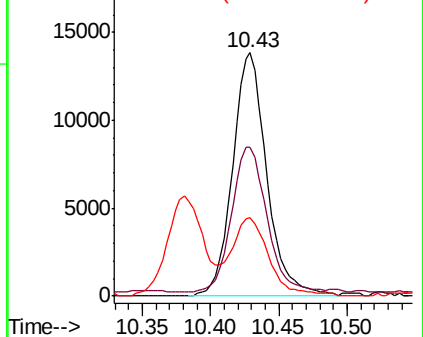
Tgt Ion:	69	Resp:	24089
Ion	Ratio	Lower	Upper
69	100		
41	61.4	50.3	75.5
39	34.9	25.4	38.2

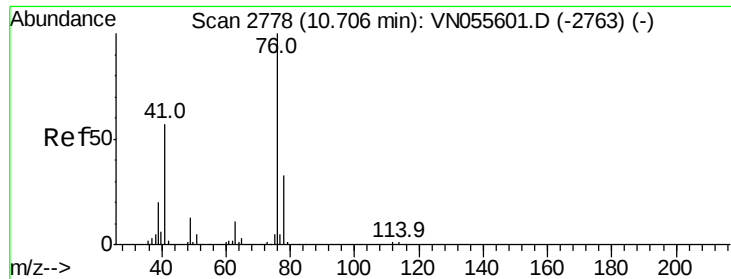


Abundance Ion 69.00 (68.70 to 69.70): VN055599.D (-2599) (-)

Ion 41.00 (40.70 to 41.70): VN055599.D (-2599) (-)

Ion 39.00 (38.70 to 39.70): VN055599.D (-2599) (-)





#57

1,3-Dichloropropane

Concen: 5.295 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 25404

Ion Ratio Lower Upper

76 100

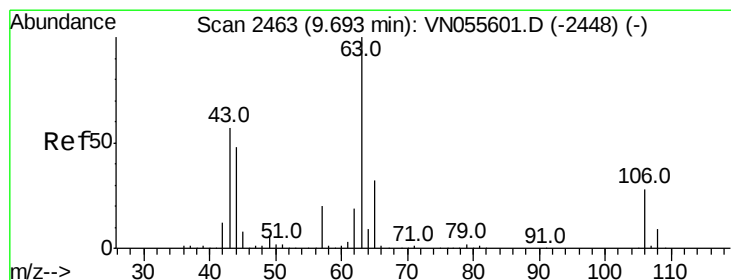
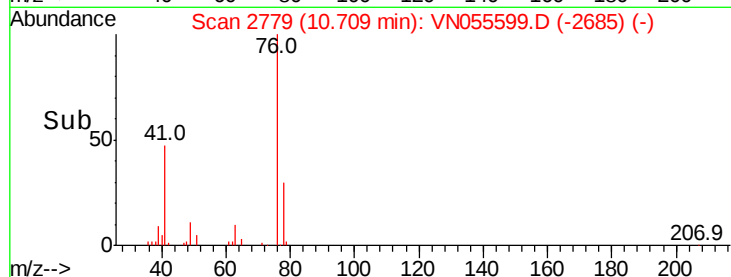
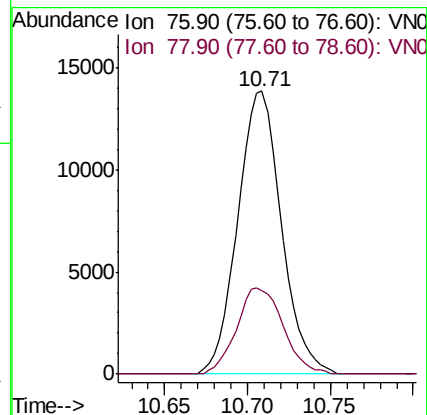
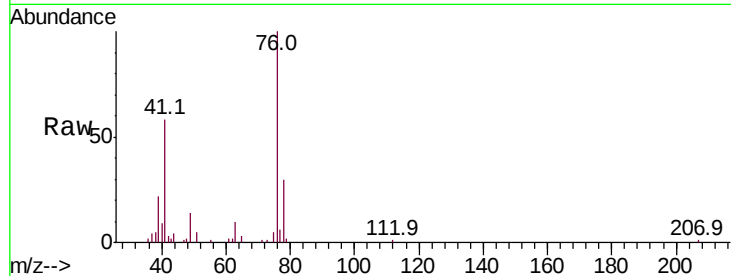
78 32.6 26.5 39.7

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 34.178 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN055599.D

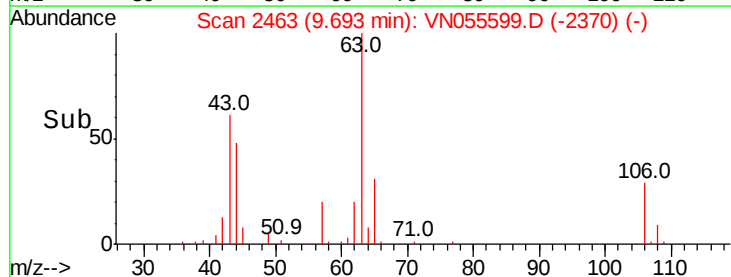
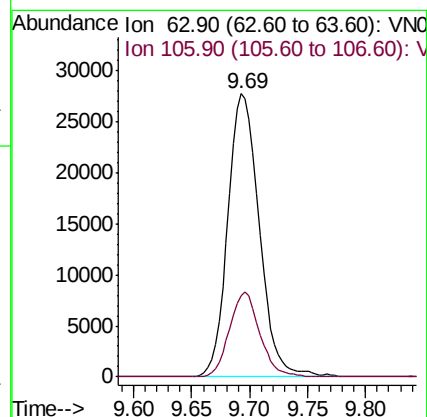
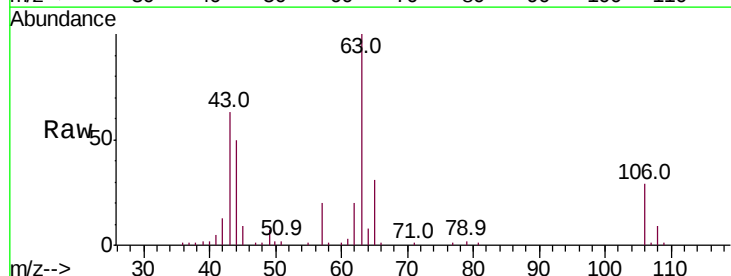
Acq: 17 May 2019 9:53

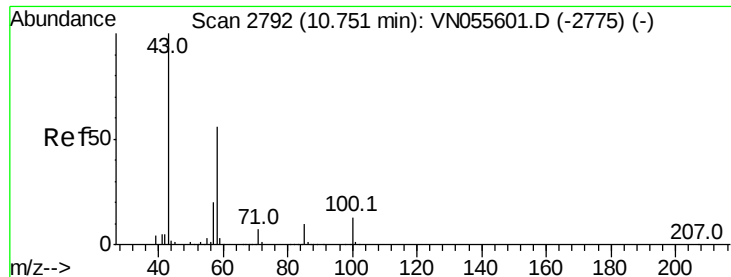
Tgt Ion: 63 Resp: 52129

Ion Ratio Lower Upper

63 100

106 28.7 23.0 34.6





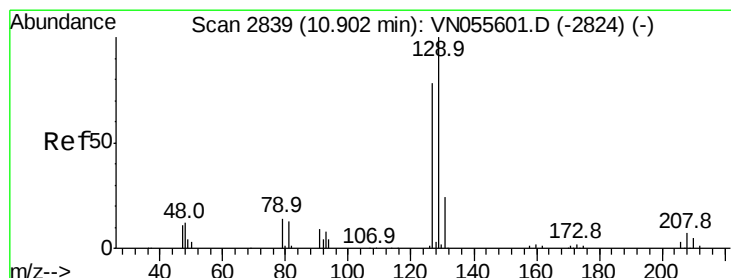
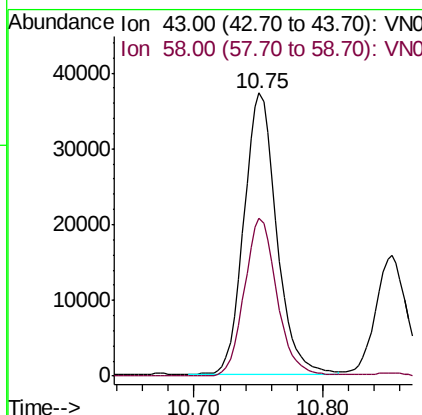
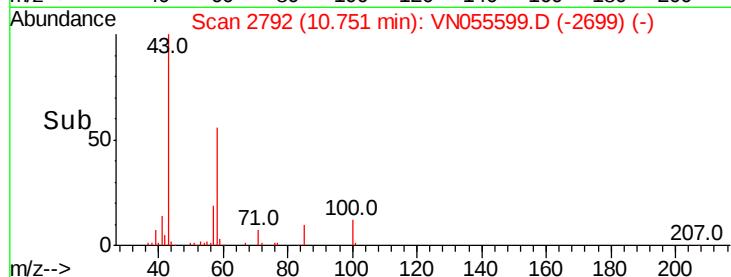
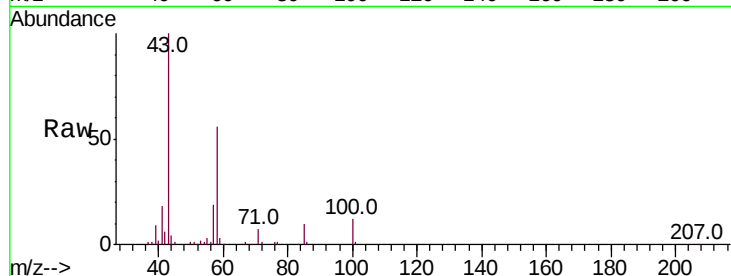
#59
2-Hexanone
Concen: 38.769 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 65635
Ion Ratio Lower Upper
43 100
58 56.1 28.1 84.4

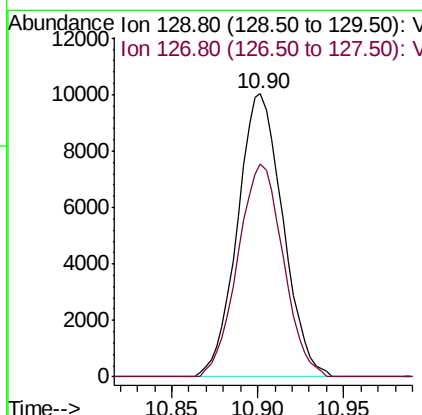
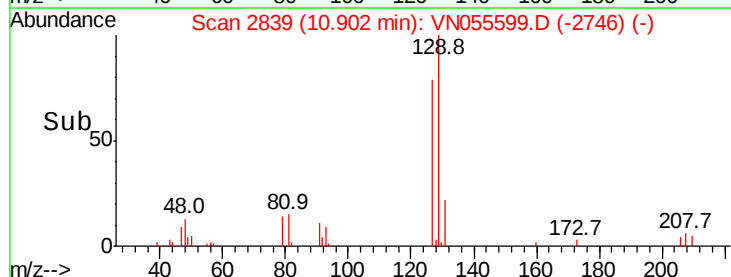
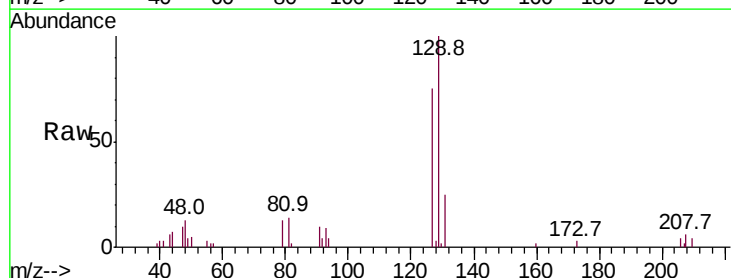
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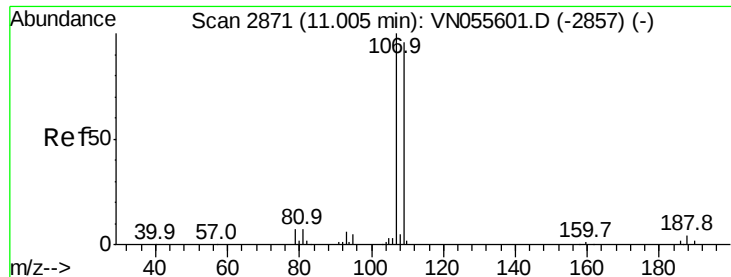
MMDadoda
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#60
Dibromochloromethane
Concen: 5.476 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion: 129 Resp: 18381
Ion Ratio Lower Upper
129 100
127 75.2 38.6 115.8





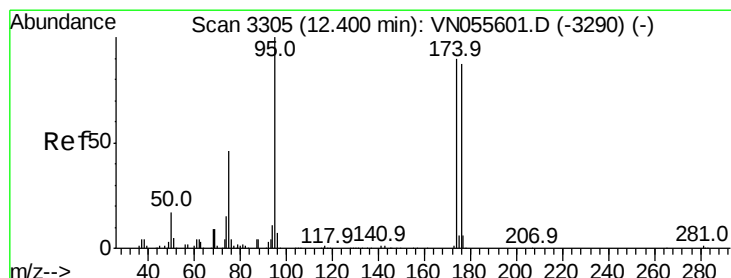
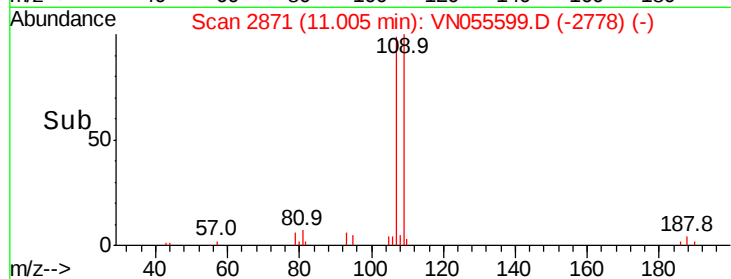
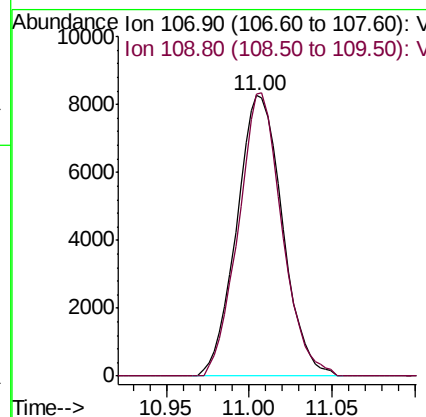
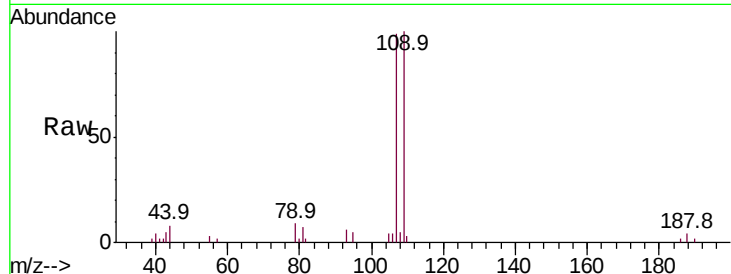
#61
1,2-Dibromoethane
Concen: 5.503 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.8	75.6	113.4

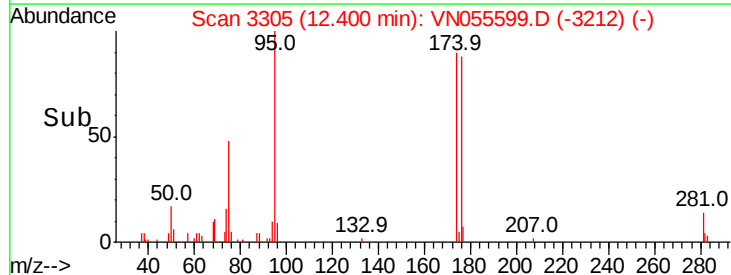
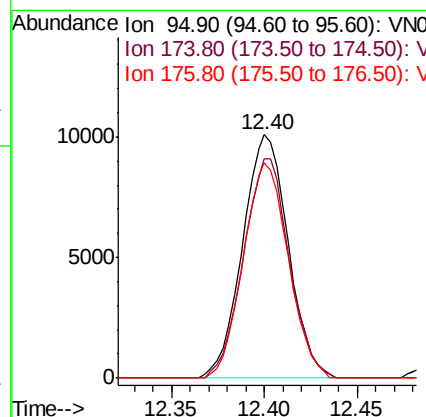
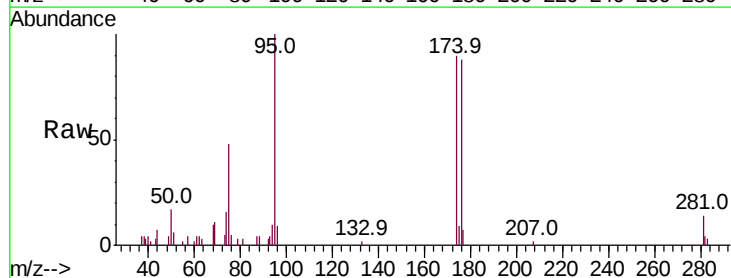
Manual Integrations
APPROVED

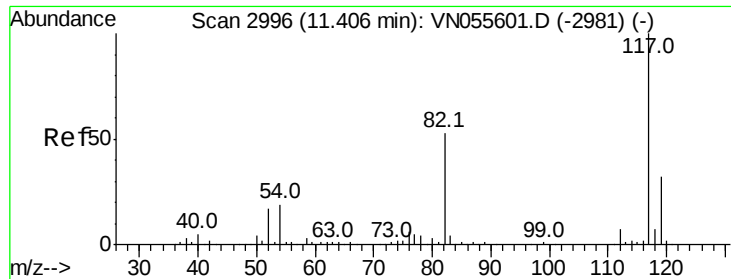
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#62
4-Bromofluorobenzene
Concen: 4.541 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.3	0.0	180.6
176	87.1	0.0	177.4





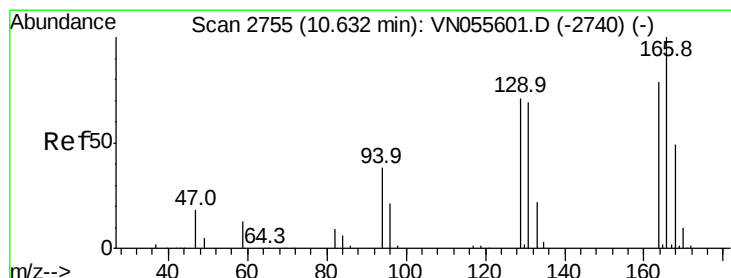
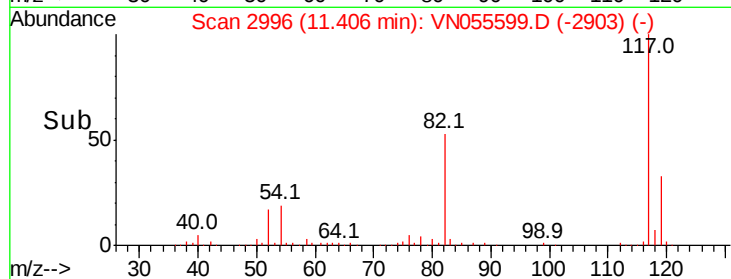
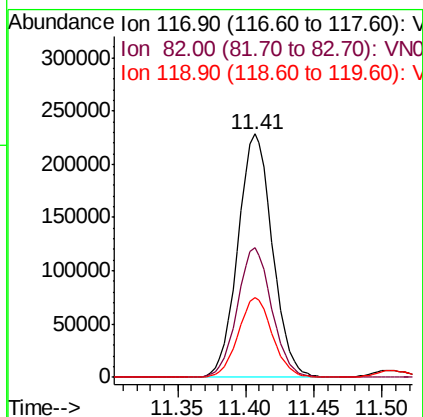
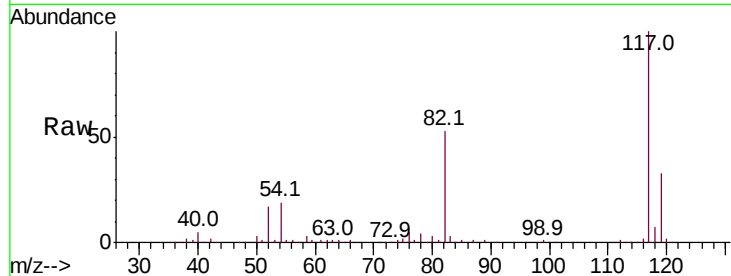
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.3	63.5
119	32.8	25.4	38.2

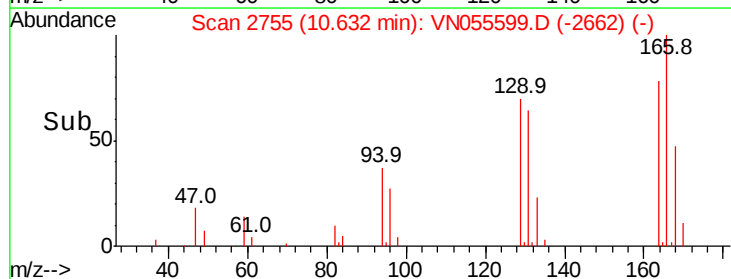
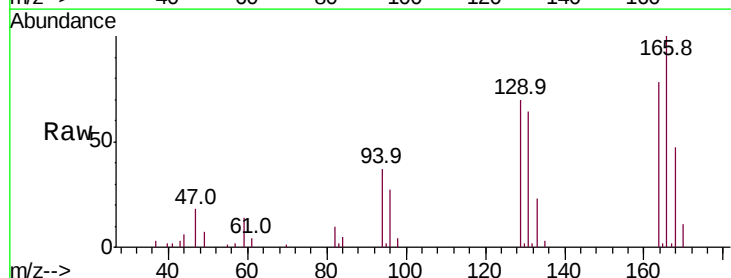
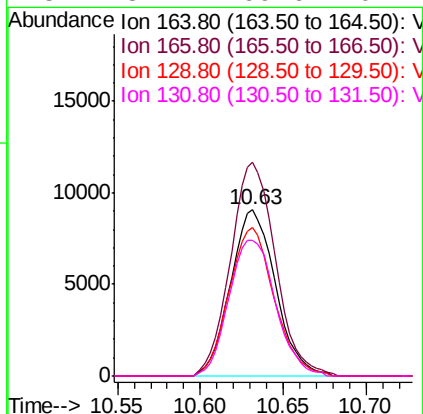
Manual Integrations
APPROVED

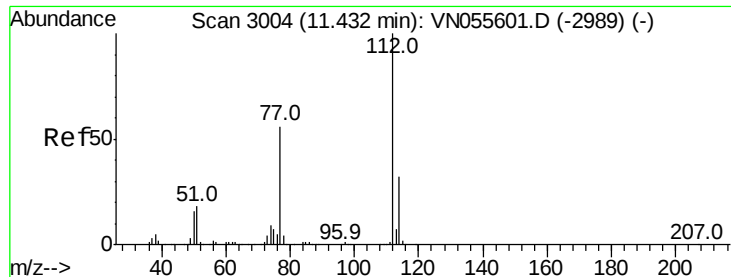
MMDadoda
5/20/2019 9:09:50 AM



#64
Tetrachloroethene
Concen: 4.834 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.0	151.6
129	89.6	71.7	107.5
131	82.2	69.6	104.4





#65

Chlorobenzene

Concen: 4.862 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:112 Resp: 40757

Ion Ratio Lower Upper

112 100

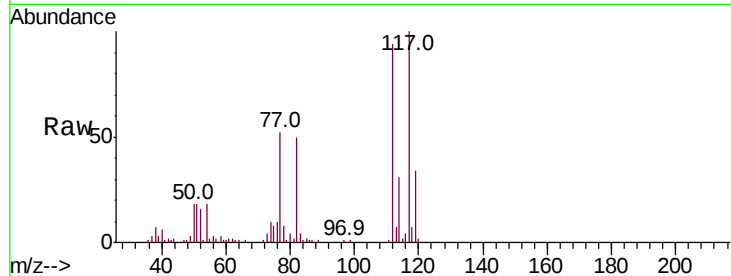
114 32.6 25.6 38.4

Manual Integrations

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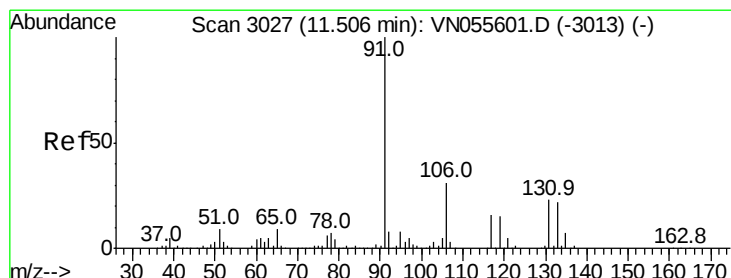
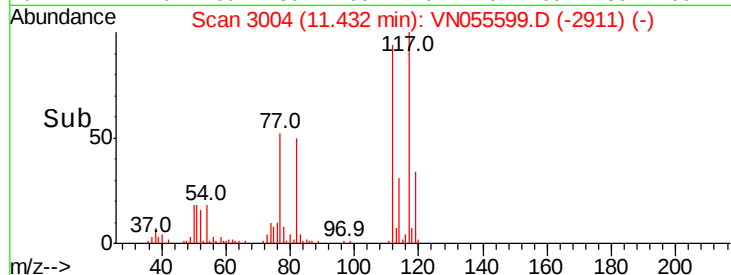
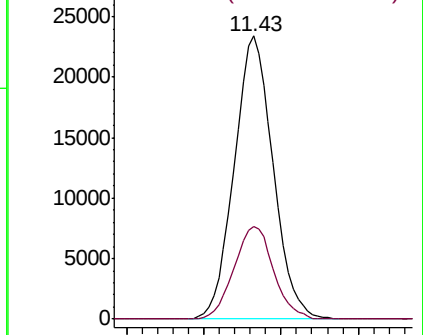
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 5.513 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

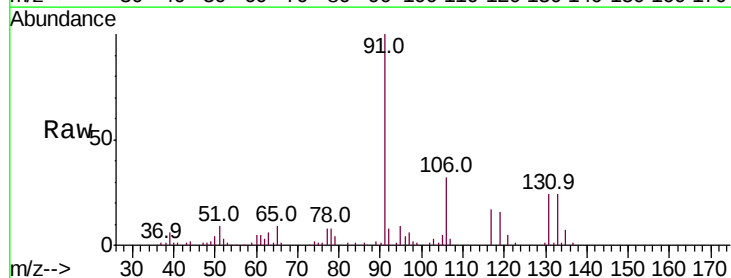
Tgt Ion:131 Resp: 17019

Ion Ratio Lower Upper

131 100

133 95.7 47.8 143.4

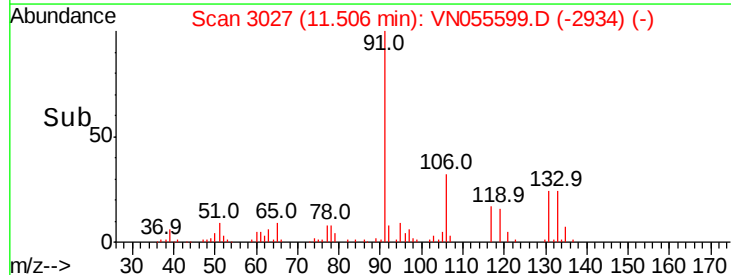
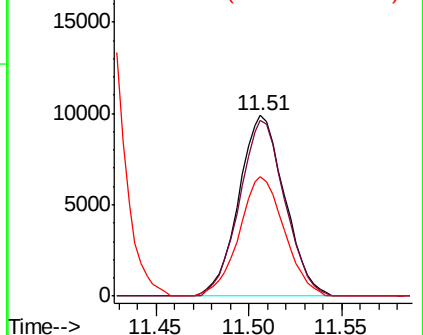
119 65.1 33.3 99.8

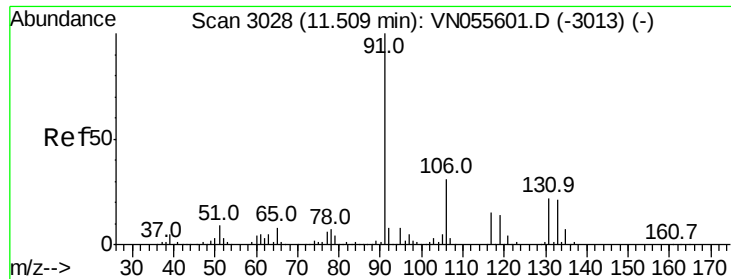


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 5.376 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 73494

Ion Ratio Lower Upper

91 100

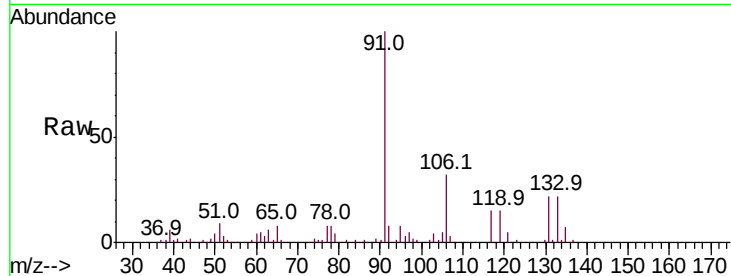
106 32.2 25.2 37.8

Manual Integrations

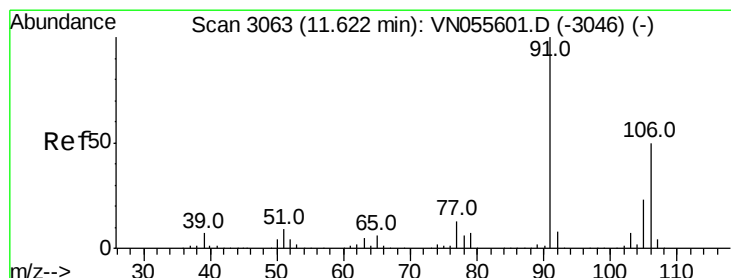
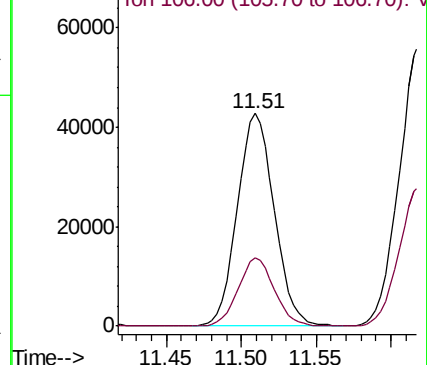
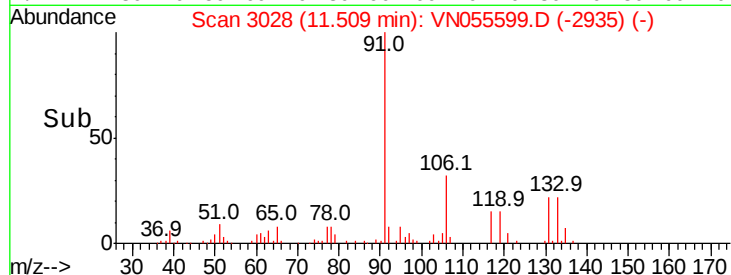
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Abundance Ion 91.00 (90.70 to 91.70): VN055599.D (-2935) (-)



#68

m/p-Xylenes

Concen: 10.616 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN055599.D

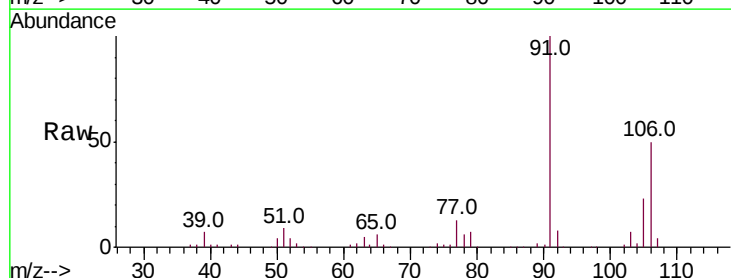
Acq: 17 May 2019 9:53

Tgt Ion: 106 Resp: 55830

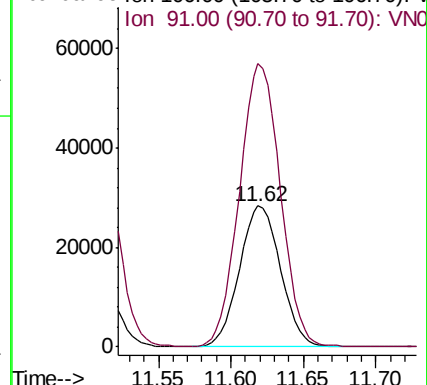
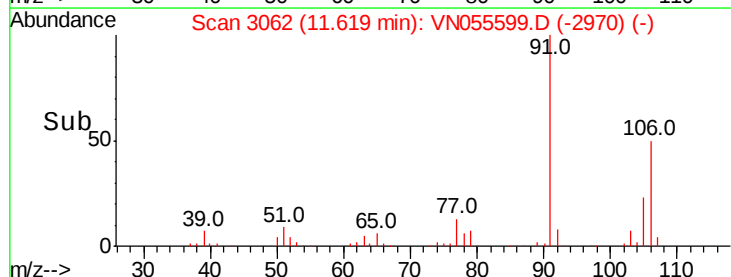
Ion Ratio Lower Upper

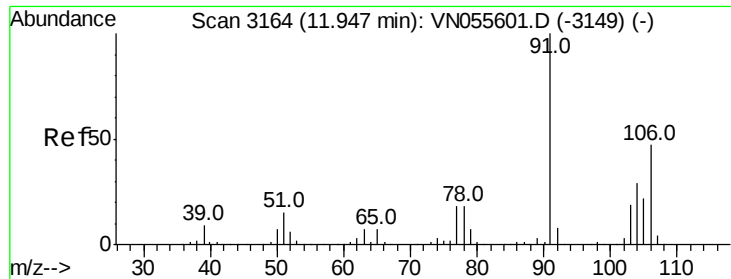
106 100

91 200.6 160.5 240.7



Abundance Ion 106.00 (105.70 to 106.70): VN055599.D (-2970) (-)





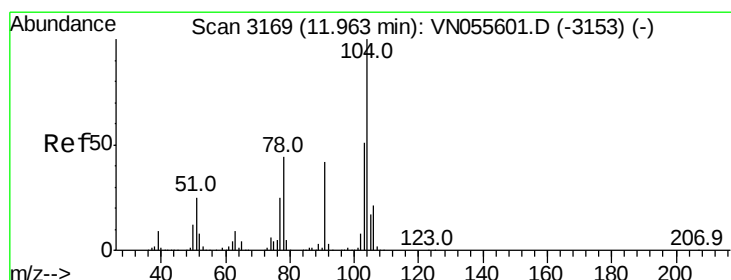
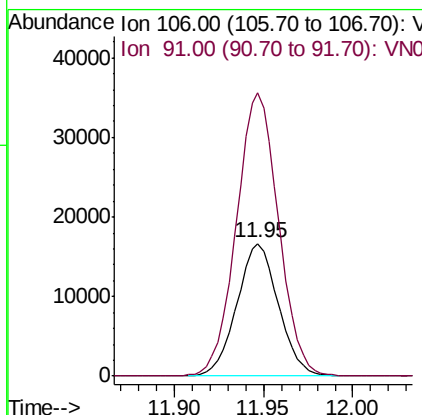
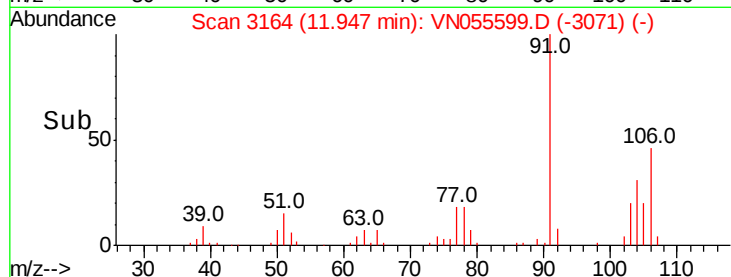
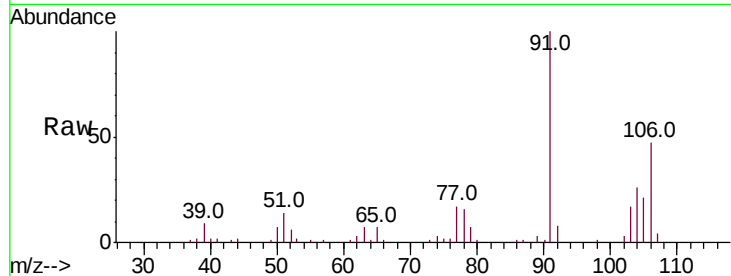
#69
o-Xylene
Concen: 5.340 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:106 Resp: 27090
Ion Ratio Lower Upper
106 100
91 216.6 106.7 320.2

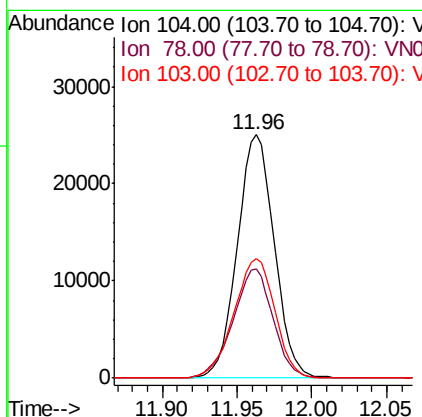
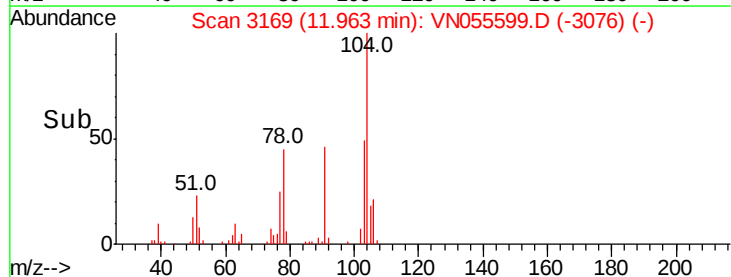
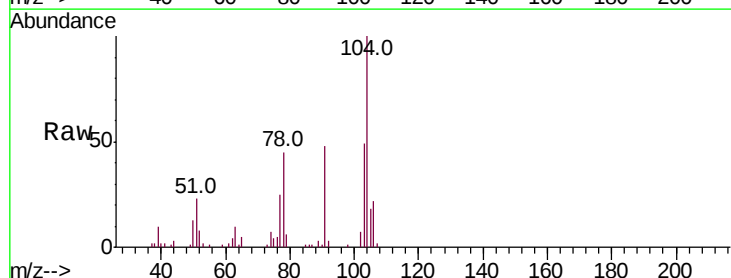
Manual Integrations
APPROVED

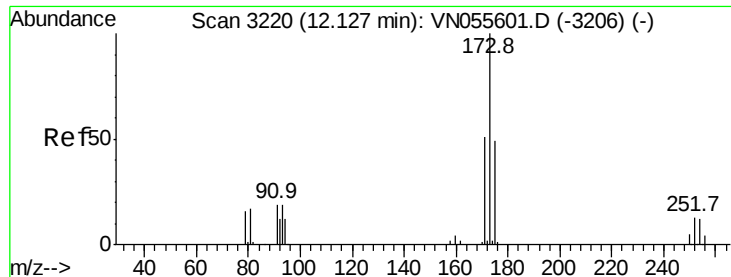
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#70
Styrene
Concen: 5.363 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion:104 Resp: 43100
Ion Ratio Lower Upper
104 100
78 48.4 38.6 58.0
103 54.3 44.4 66.6





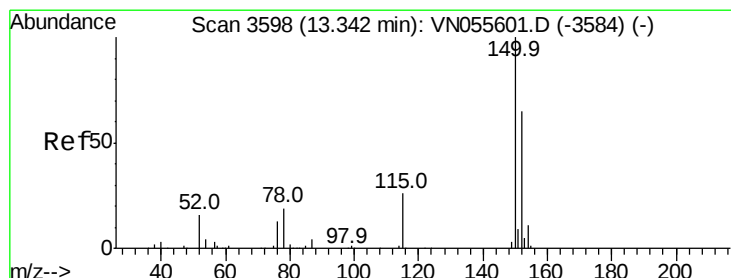
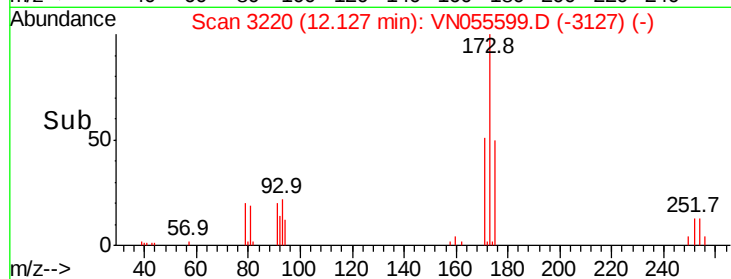
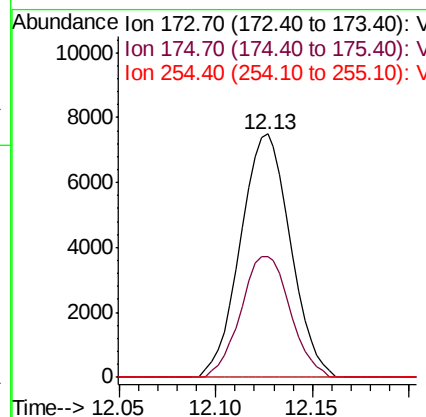
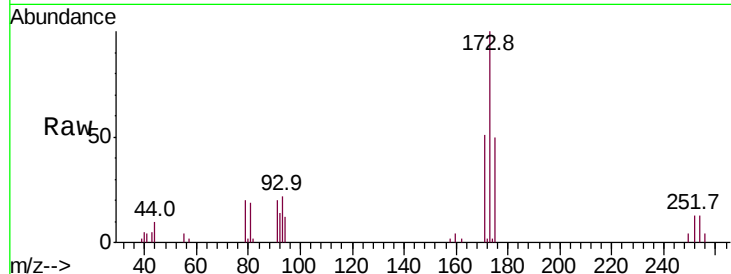
#71
Bromoform
Concen: 5.905 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.3	72.9
254	0.0	0.1	0.1#

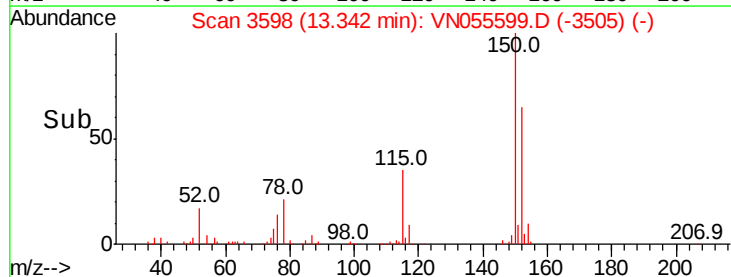
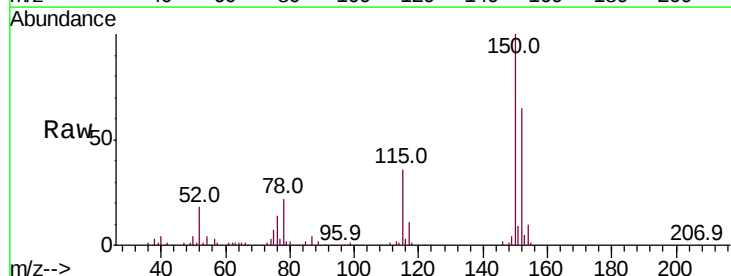
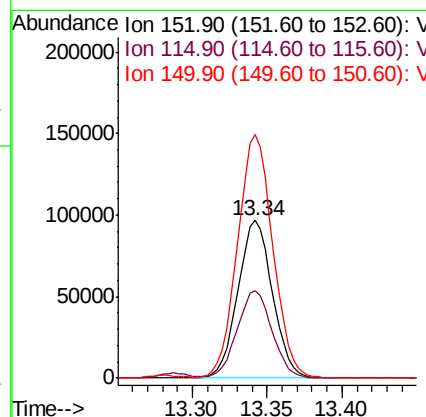
Manual Integrations
APPROVED

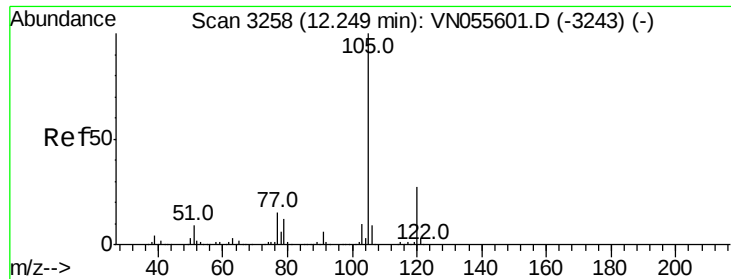
MMDadoda
5/20/2019 9:09:50 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.1	84.2
150	158.0	0.0	348.0





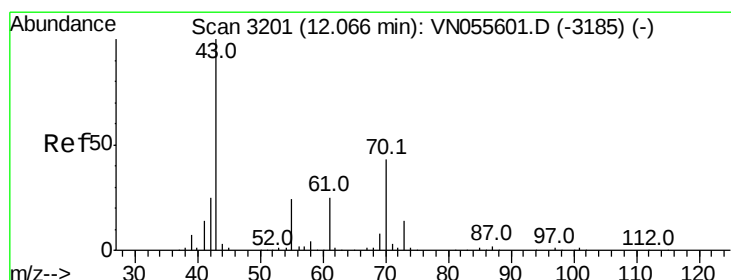
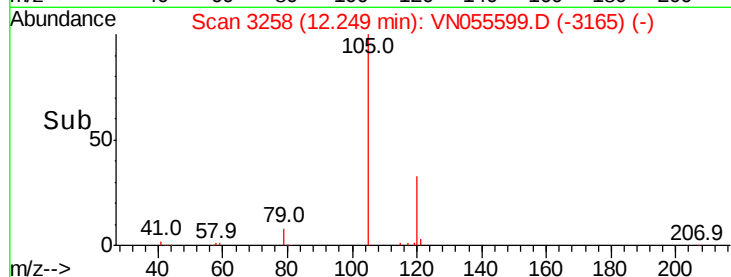
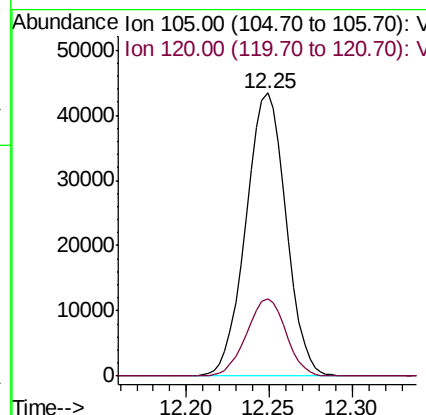
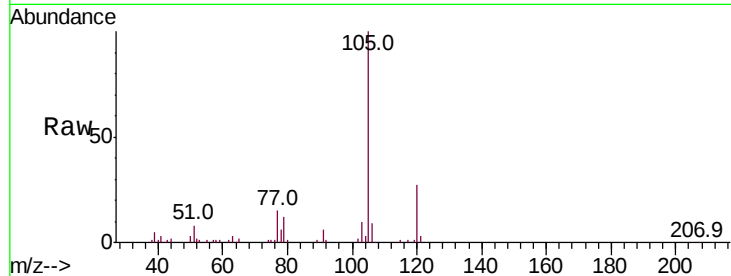
#73
Isopropylbenzene
Concen: 6.651 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.4	40.2

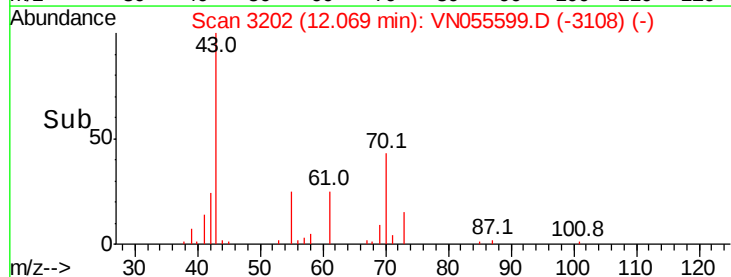
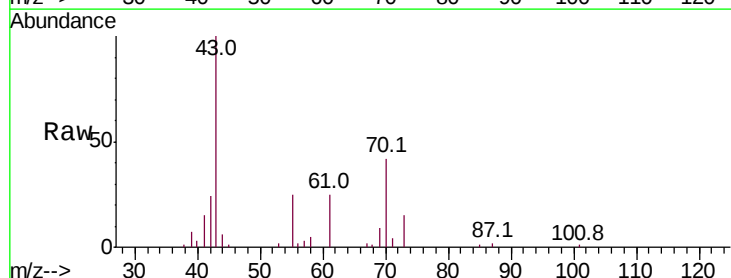
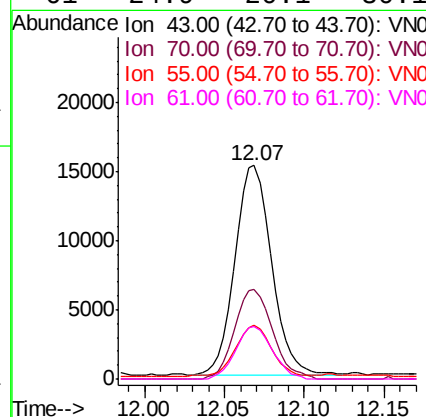
Manual Integrations
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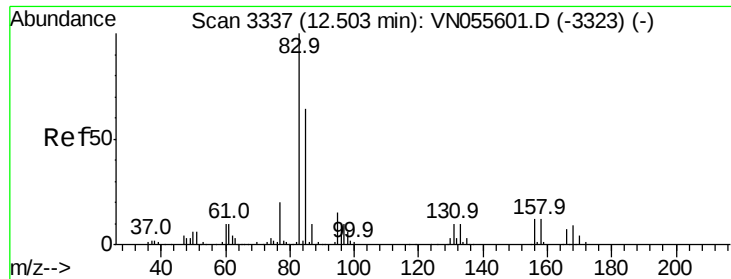
MMDadoda
5/20/2019 9:09:50 AM



#74
N-ethyl acetate
Concen: 8.445 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.8	35.0	52.6
55	22.9	18.9	28.3
61	24.9	20.1	30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 7.883 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

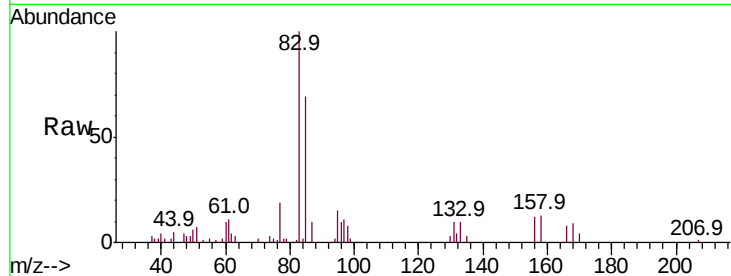
ClientSampleId :

VSTDIC005

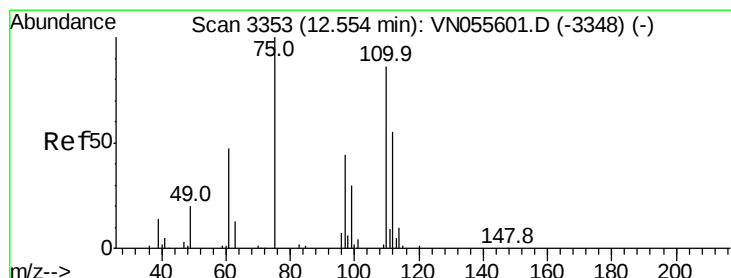
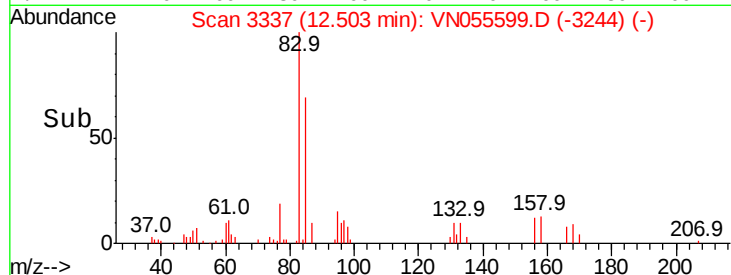
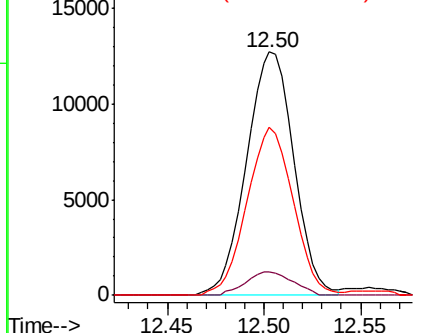
Tot Ion:	83	Resp:	21667
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.3	16.1
85	67.4	32.0	96.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN055599.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 8.048 ug/l m

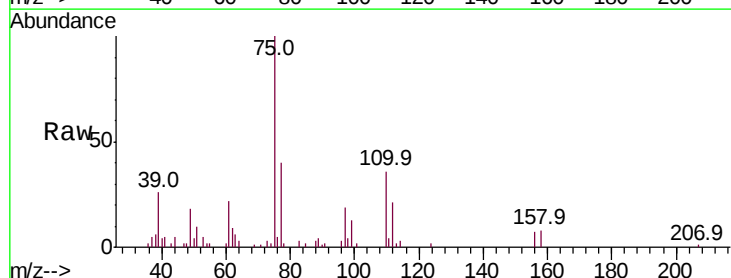
RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

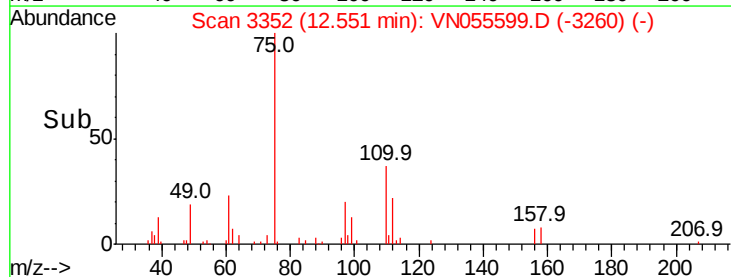
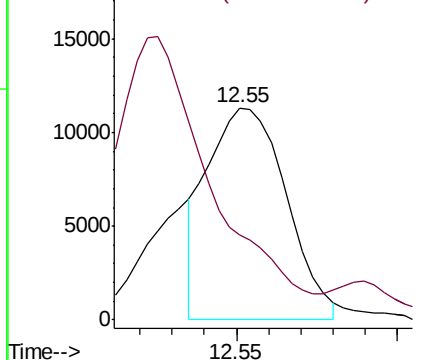
Lab File: VN055599.D

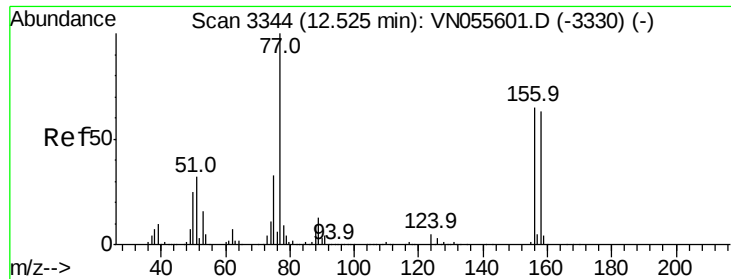
Acq: 17 May 2019 9:53

Tgt Ion:	75	Resp:	19210
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN055599.D (-3260) (-)





#77

Bromobenzene

Concen: 5.772 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

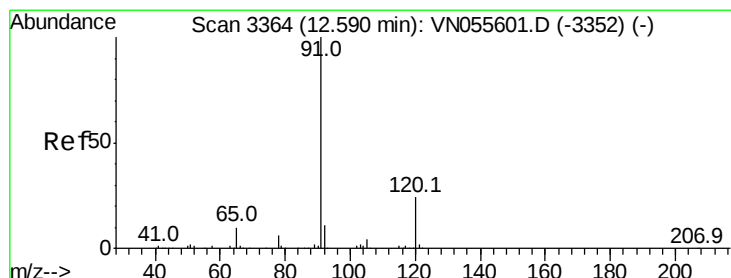
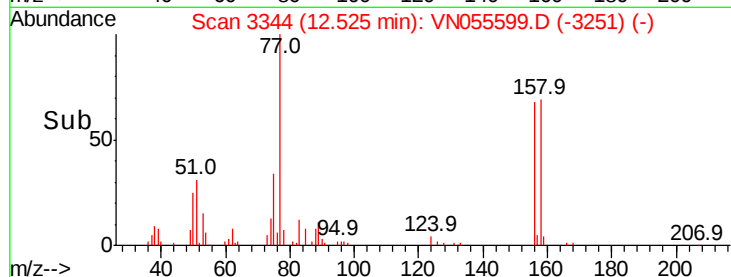
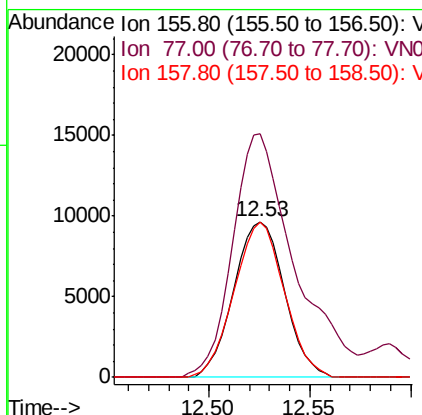
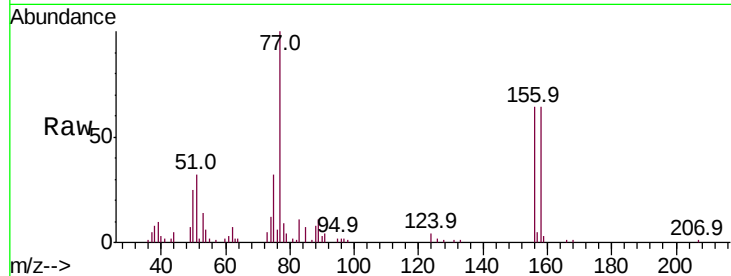
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	16980
Ion	Ratio	Lower	Upper
156	100		
77	190.5	94.5	283.5
158	98.7	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 6.215 ug/l

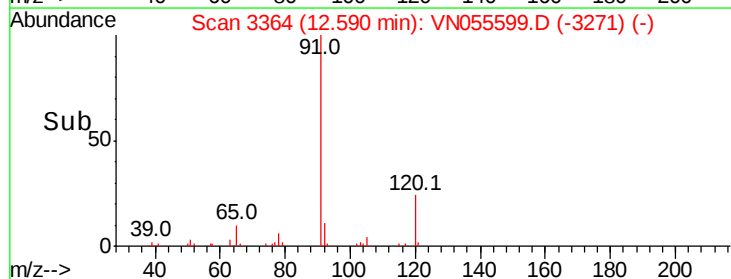
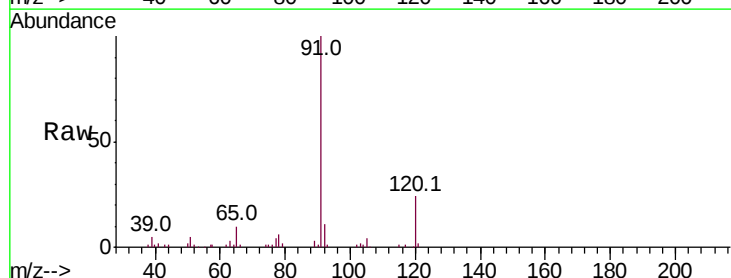
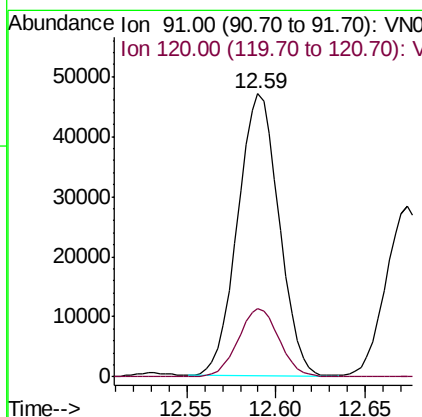
RT: 12.59 min Scan# 3364

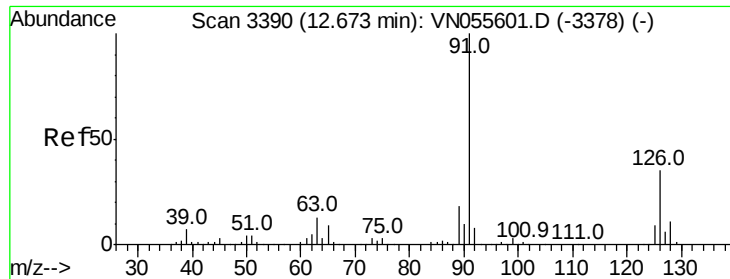
Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Tgt Ion:	91	Resp:	76113
Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.9	35.5





#79

2-Chlorotoluene

Concen: 6.339 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 46929

Ion Ratio Lower Upper

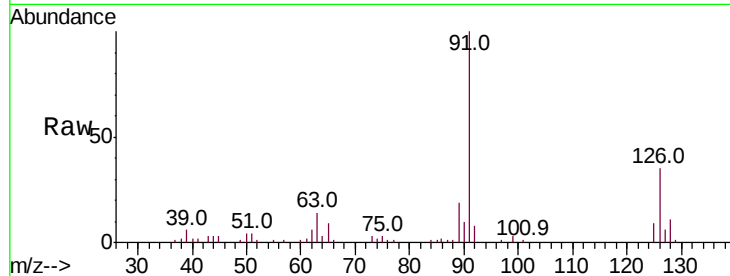
91 100

126 34.7 17.8 53.4

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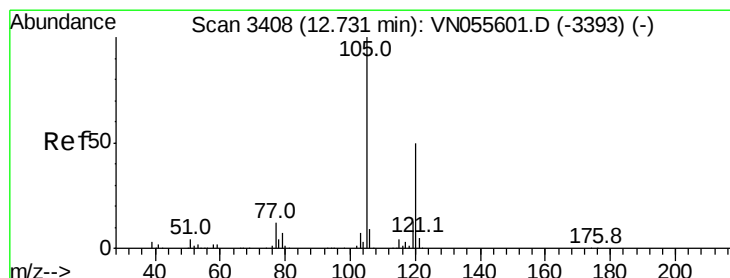
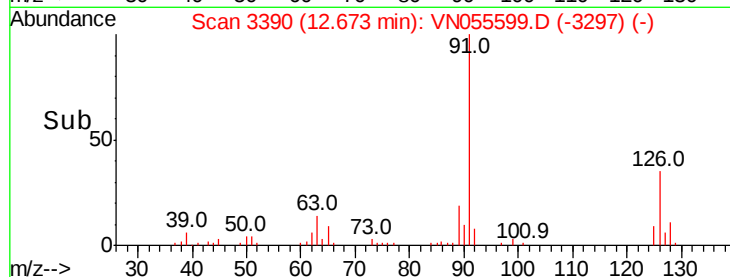
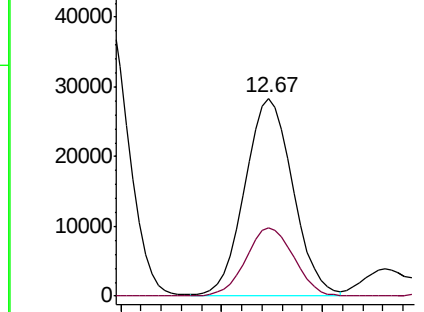
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Abundance Ion 91.00 (90.70 to 91.70): VN055599.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055599.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 6.616 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN055599.D

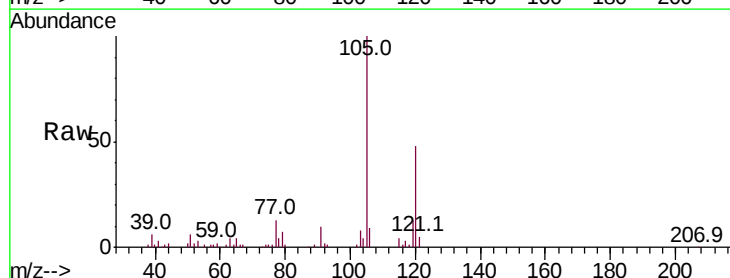
Acq: 17 May 2019 9:53

Tgt Ion: 105 Resp: 60386

Ion Ratio Lower Upper

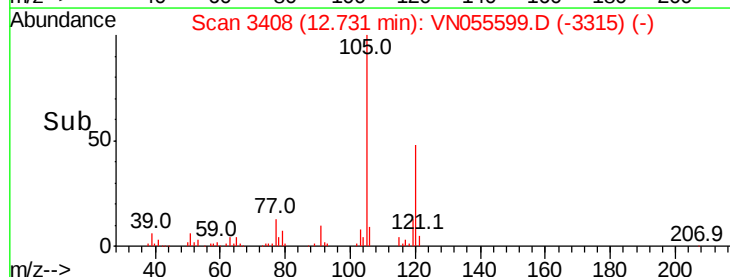
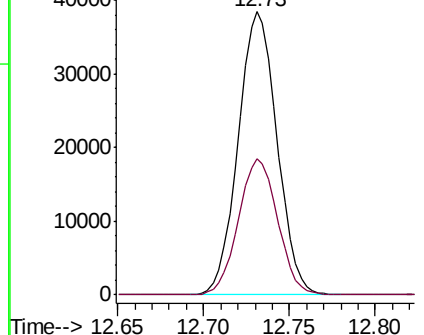
105 100

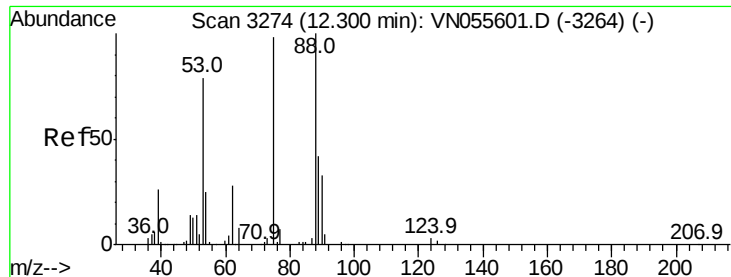
120 48.4 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN055599.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055599.D (-3393) (-)





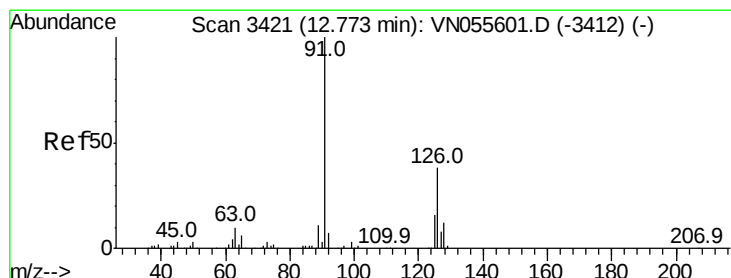
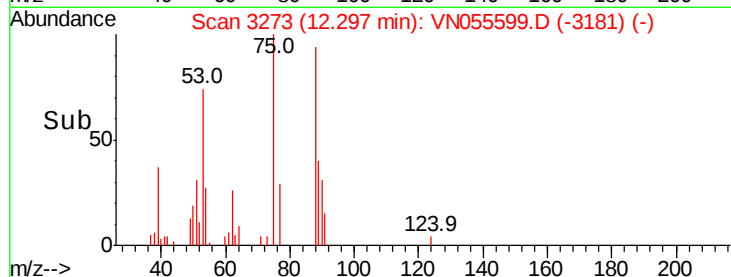
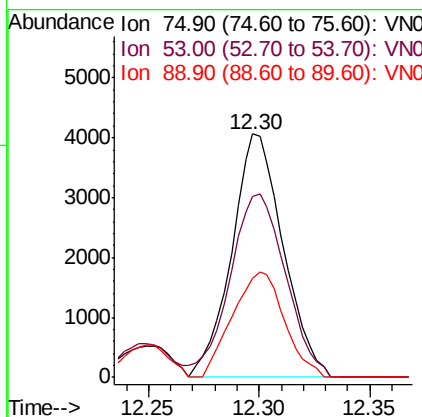
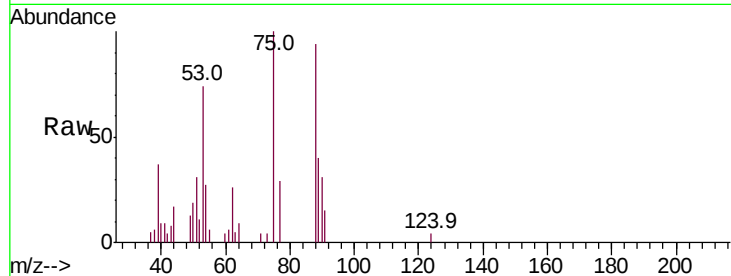
#81
trans-1,4-Dichloro-2-butene
Concen: 8.497 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	81.3	65.1	97.7
89	43.8	36.4	54.6

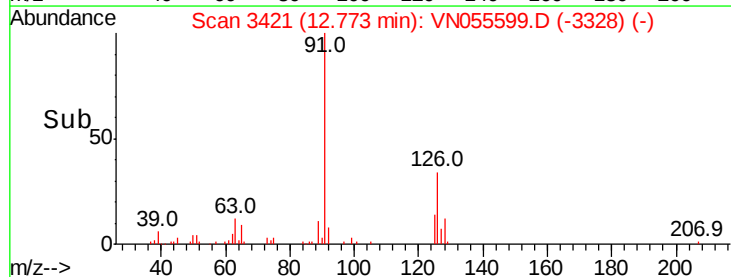
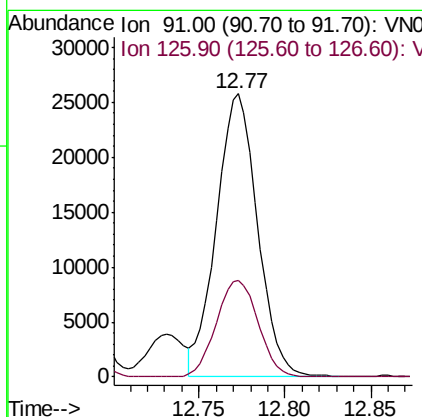
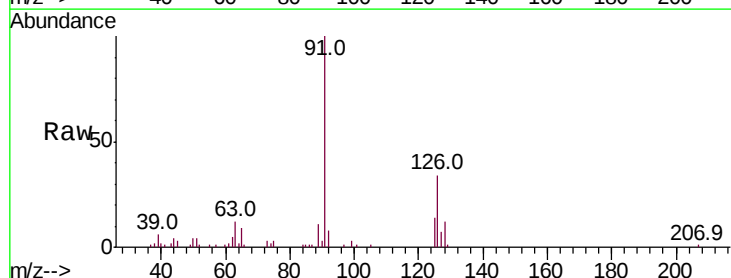
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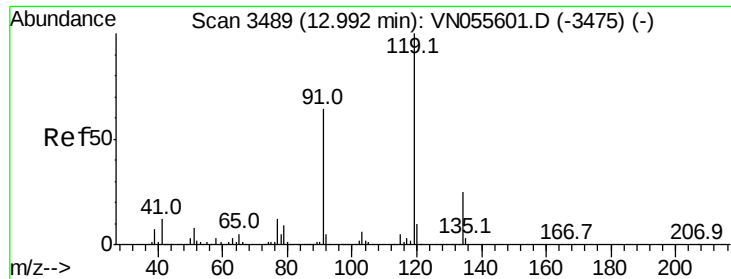
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#82
4-Chlorotoluene
Concen: 5.862 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.5	52.6





#83

tert-Butylbenzene

Concen: 6.724 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

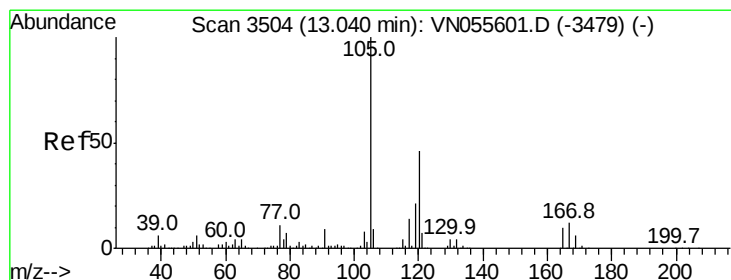
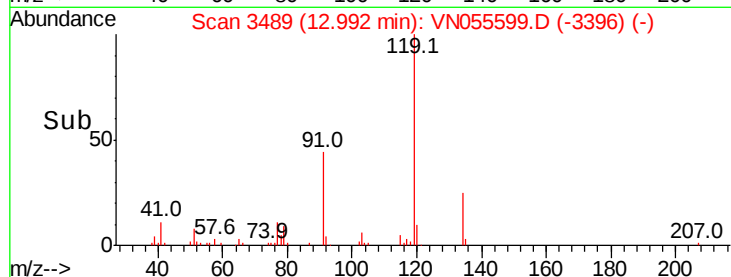
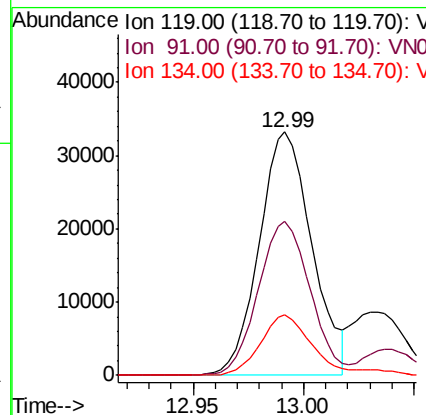
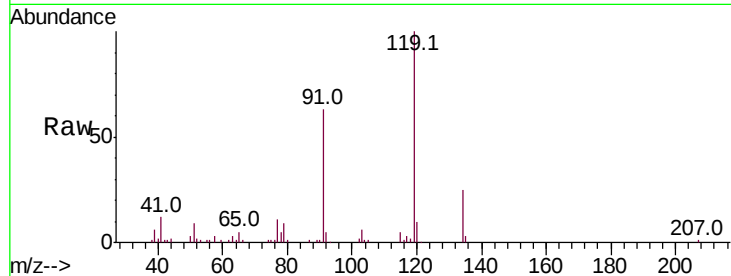
ClientSampled :

VSTDIC005

Tot Ion:	119	Resp:	54862
Ion Ratio	Lower	Upper	
119	100		
91	62.4	31.3	93.8
134	25.2	13.2	39.6

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#84

1,2,4-Trimethylbenzene

Concen: 6.503 ug/l

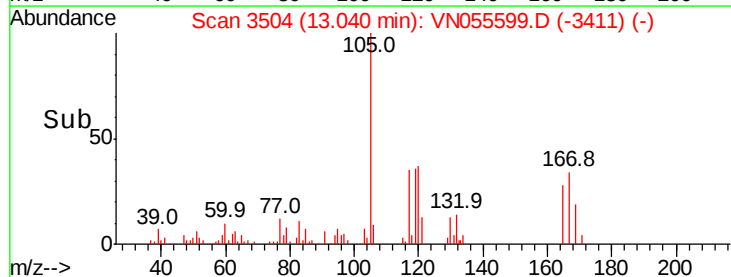
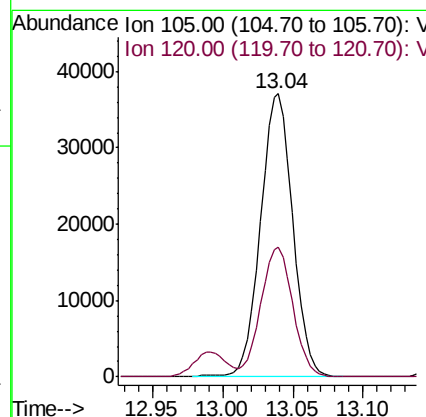
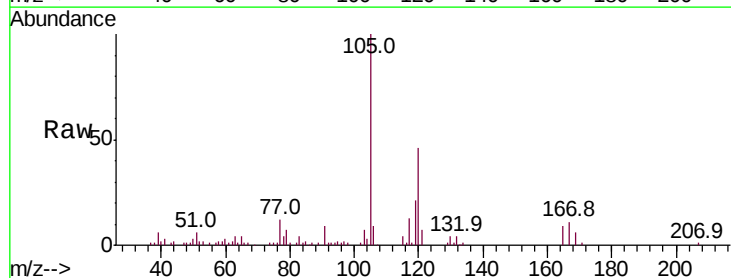
RT: 13.04 min Scan# 3504

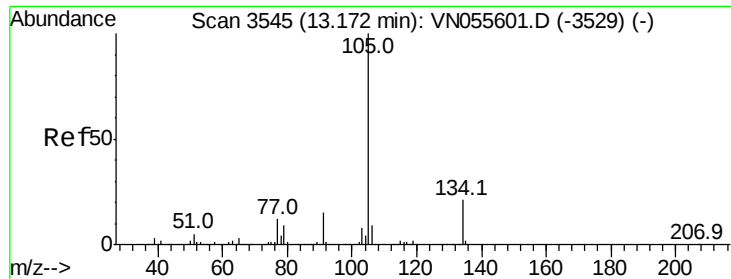
Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Tgt Ion:	105	Resp:	59270
Ion Ratio	Lower	Upper	
105	100		
120	45.6	23.1	69.2





#85

sec-Butylbenzene

Concen: 6.248 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 68251

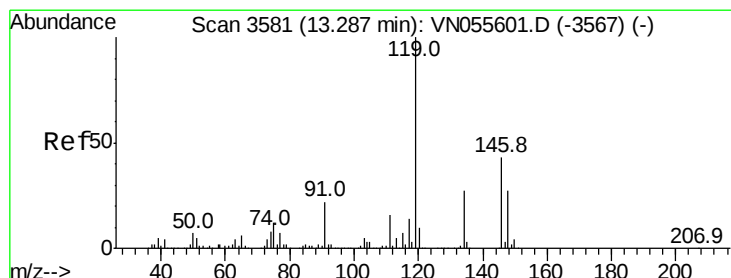
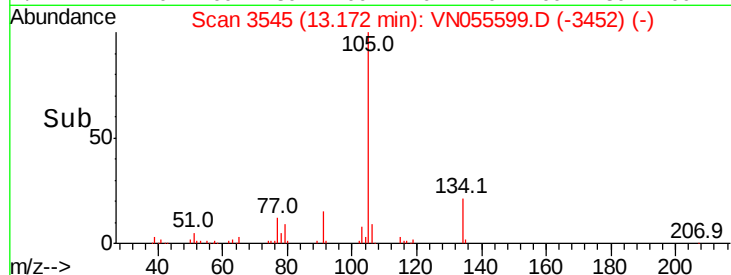
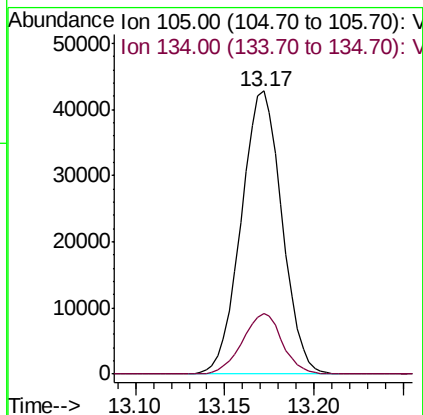
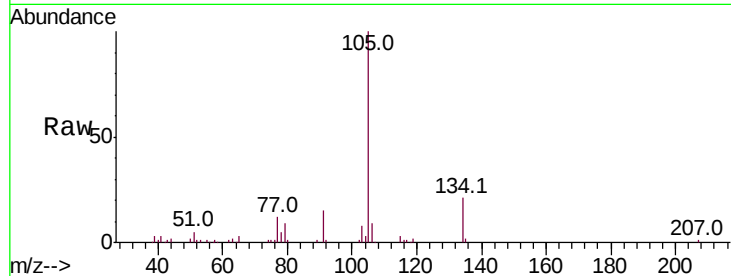
Ion Ratio Lower Upper

105 100

134 20.7 10.3 30.9

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#86

p-Isopropyltoluene

Concen: 6.393 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

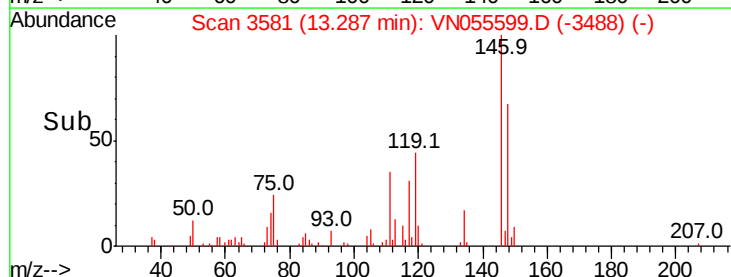
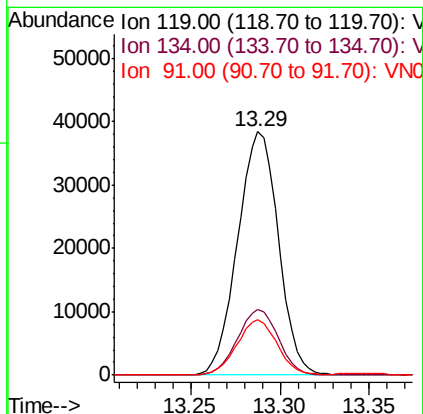
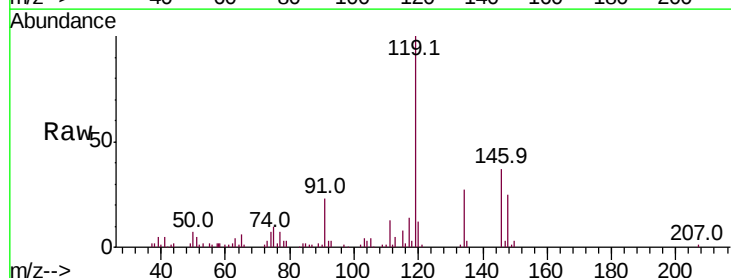
Tgt Ion:119 Resp: 61029

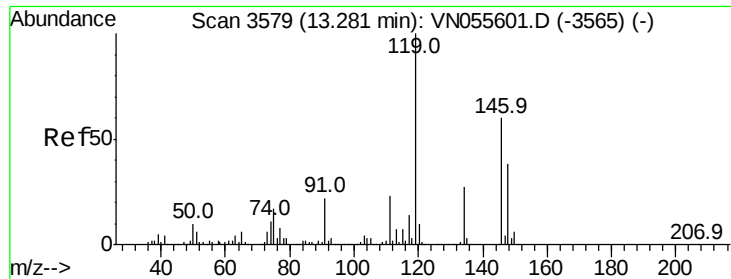
Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

91 22.5 11.0 33.0





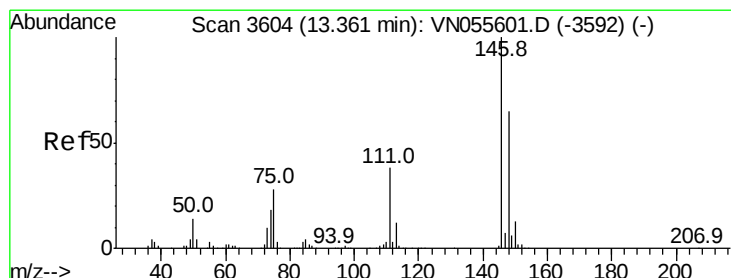
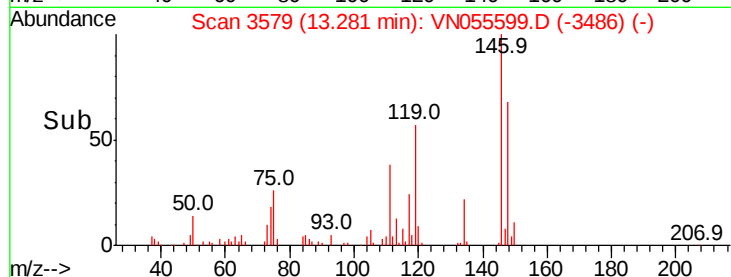
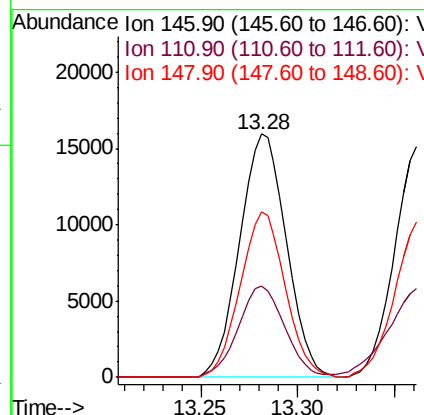
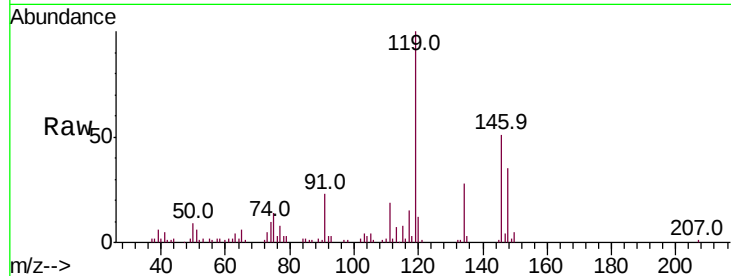
#87
 1,3-Dichlorobenzene
 Concen: 5.230 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.9	56.9
148	65.4	31.9	95.9

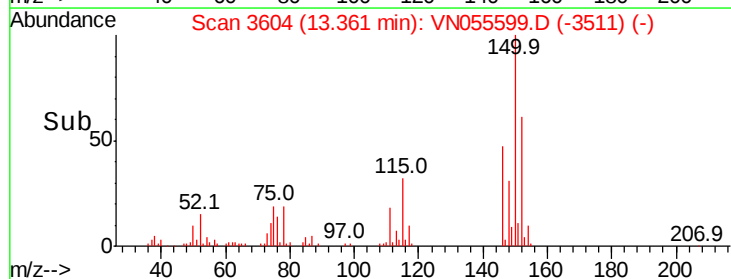
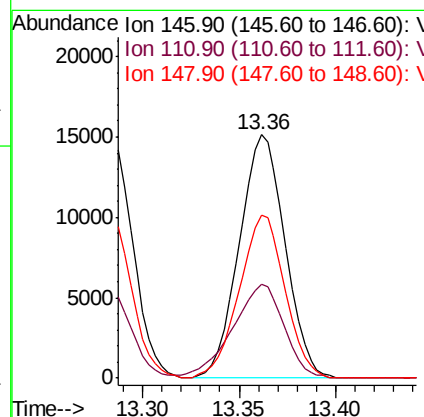
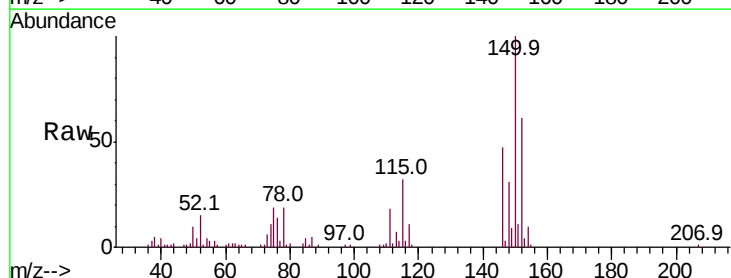
Manual Integrations
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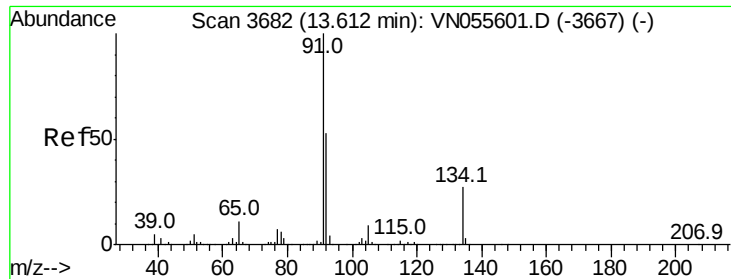
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#88
 1,4-Dichlorobenzene
 Concen: 4.842 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	18.8	56.4
148	66.9	32.4	97.0





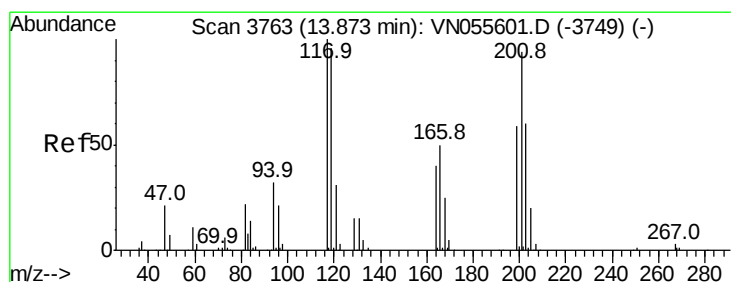
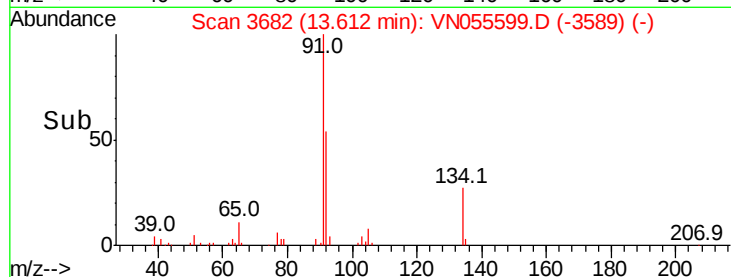
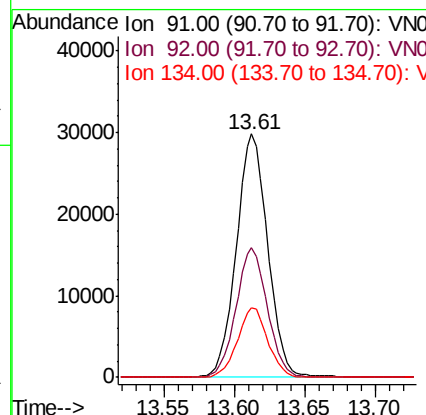
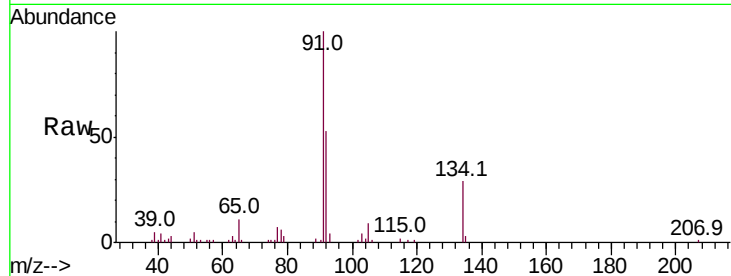
#89
n-Butylbenzene
Concen: 5.940 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.4	79.0
134	27.3	13.7	41.1

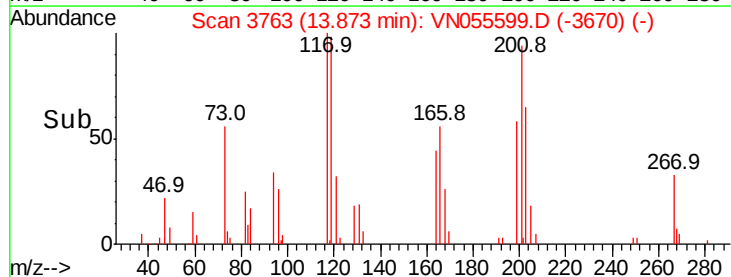
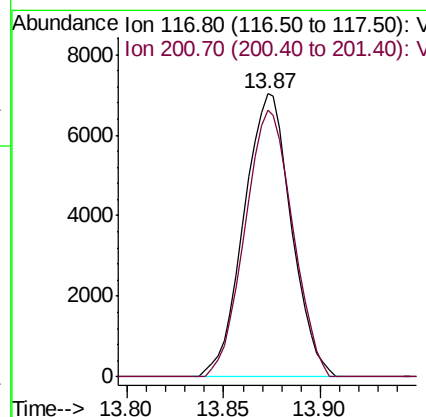
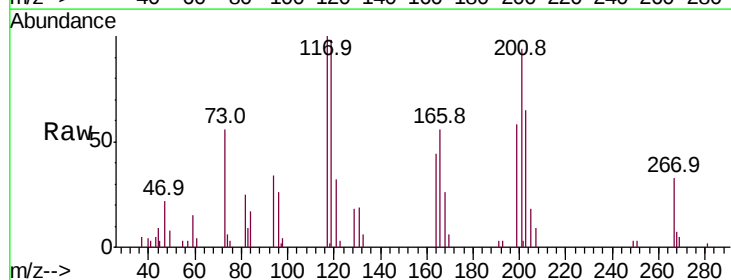
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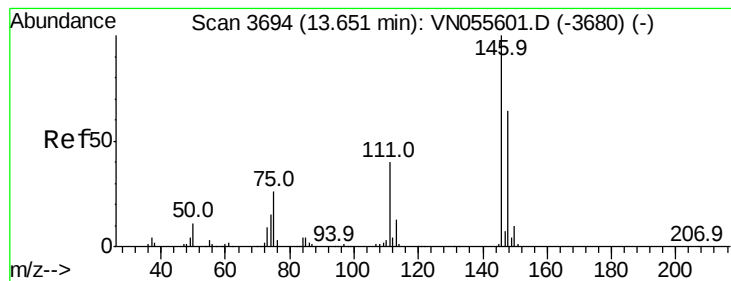
MMDadoda
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#90
Hexachloroethane
Concen: 6.440 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.8	47.1	141.3





#91

1,2-Dichlorobenzene

Concen: 5.505 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Instrument :

MSVOA_N

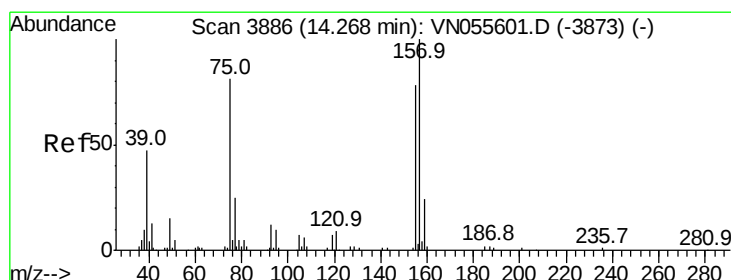
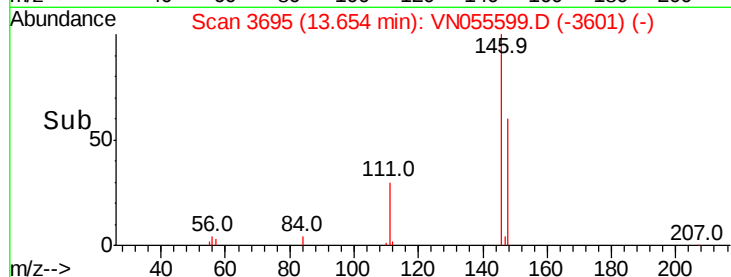
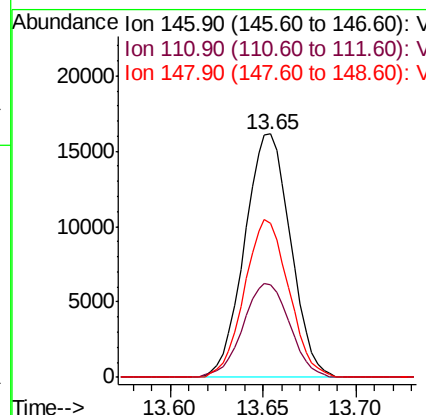
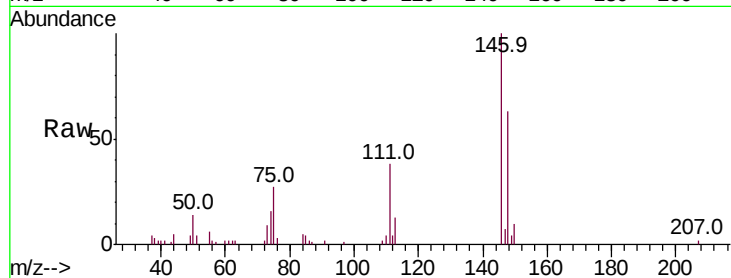
ClientSampled :

VSTDIC005

Tot Ion:	146	Resp:	27687
Ion Ratio	Lower	Upper	
146	100		
111	39.2	19.7	59.0
148	62.7	32.1	96.3

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#92

1,2-Dibromo-3-Chloropropane

Concen: 8.863 ug/l

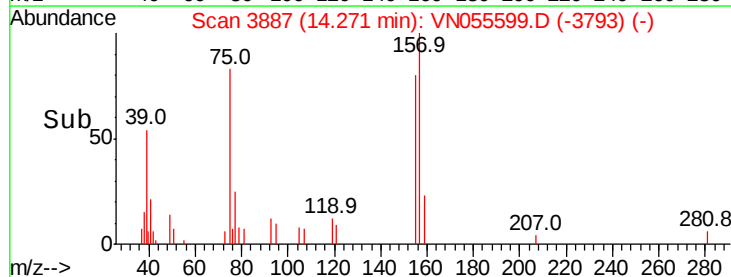
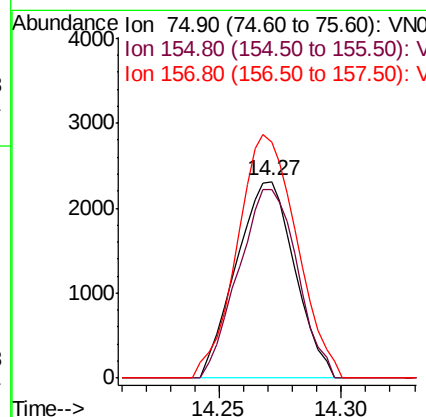
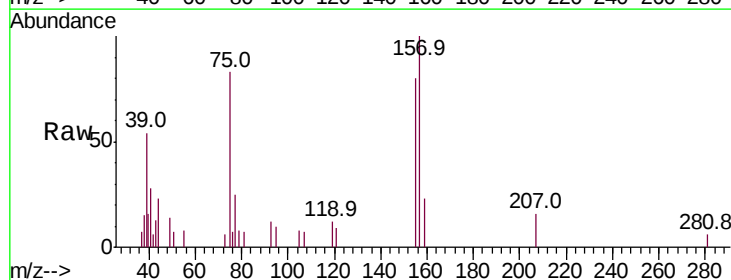
RT: 14.27 min Scan# 3887

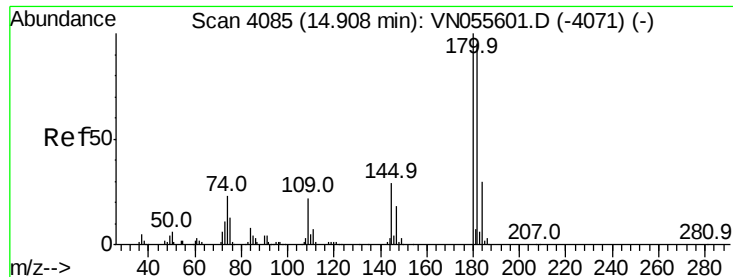
Delta R.T. 0.00 min

Lab File: VN055599.D

Acq: 17 May 2019 9:53

Tgt Ion:	75	Resp:	3843
Ion Ratio	Lower	Upper	
75	100		
155	96.9	48.4	145.0
157	125.9	62.3	186.8





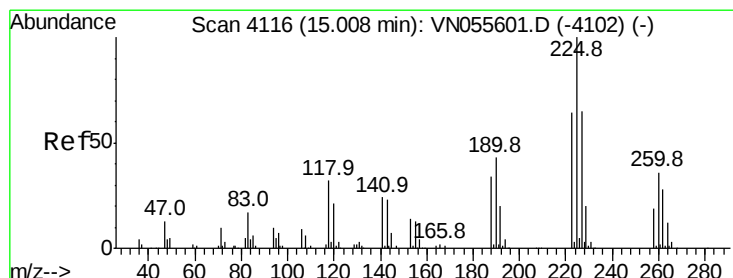
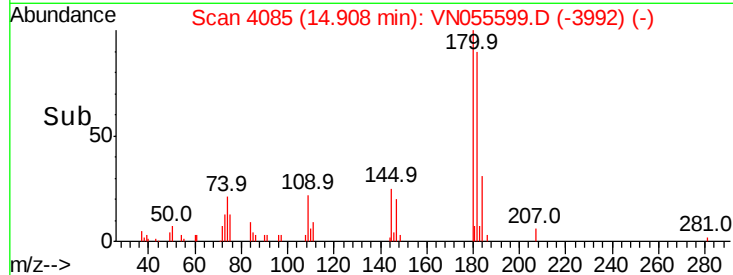
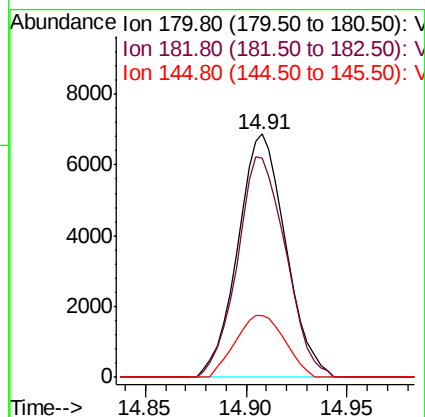
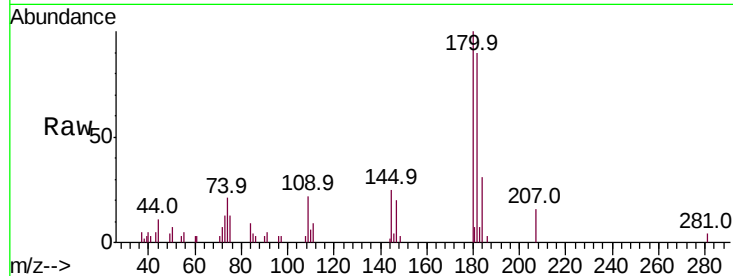
#93
 1,2,4-Trichlorobenzene
 Concen: 4.356 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	91.4	47.9	143.6	
145	26.2	14.3	42.9	

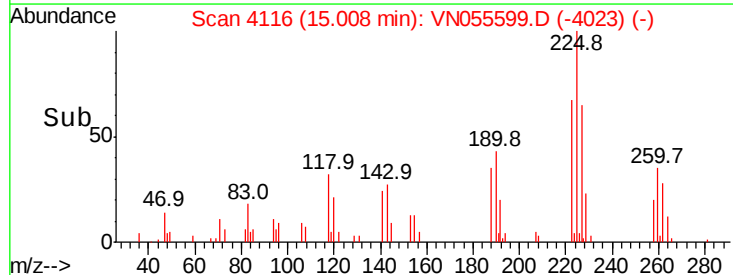
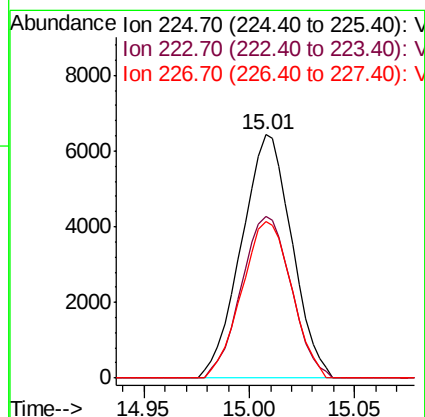
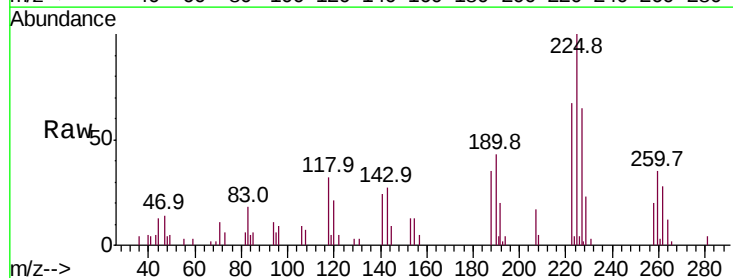
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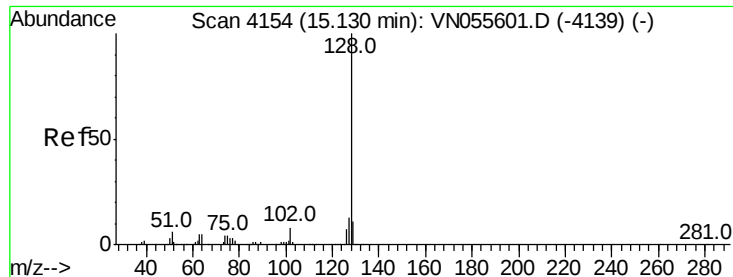
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#94
 Hexachlorobutadiene
 Concen: 5.119 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055599.D
 Acq: 17 May 2019 9:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	65.7	31.6	94.7	
227	63.6	32.4	97.0	





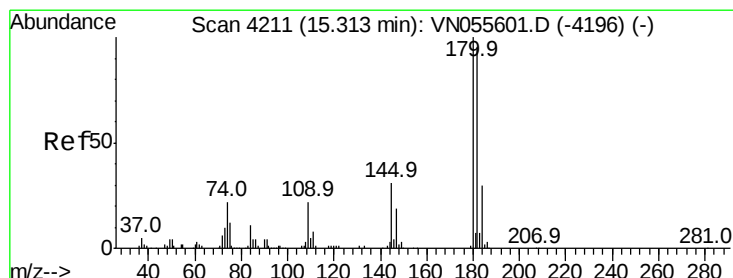
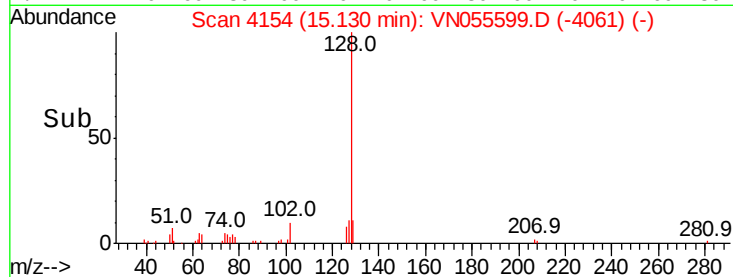
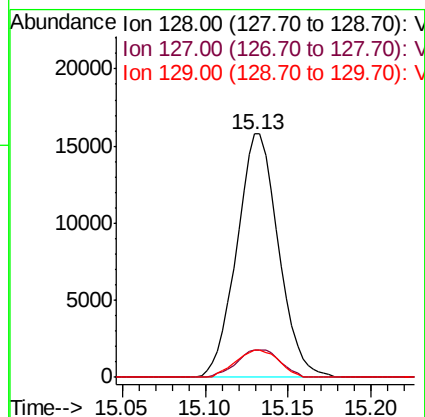
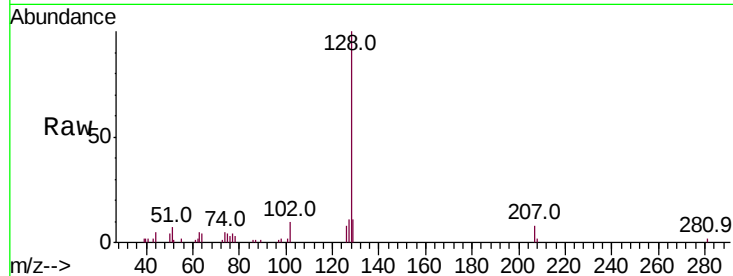
#95
Naphthalene
Concen: 5.219 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	128	Resp:	27577
Ion Ratio	Lower	Upper	
128	100		
127	11.8	10.2	15.4
129	11.5	8.6	12.8

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 4.904 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055599.D
Acq: 17 May 2019 9:53

Tgt Ion:	180	Resp:	12568
Ion Ratio	Lower	Upper	
180	100		
182	97.1	47.9	143.6
145	30.1	15.4	46.1

