

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056699.D
 Acq On : 15 Jul 2019 9:33
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 7/17/2019 1:31:17 AM

Quant Time: Jul 16 01:18:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:03:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	336050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	520326	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	191234	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	78513	21.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.32%	
35) Dibromofluoromethane	7.59	113	67791	20.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.96%	
50) Toluene-d8	10.09	98	257464	20.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.94%	
62) 4-Bromofluorobenzene	12.40	95	83652	19.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	61269	21.426	ug/l	100
3) Chloromethane	2.06	50	82625	21.155	ug/l	95
4) Vinyl Chloride	2.18	62	81060	21.504	ug/l	99
5) Bromomethane	2.55	94	49013	22.358	ug/l	98
6) Chloroethane	2.70	64	45394	20.880	ug/l	99
7) Trichlorofluoromethane	3.01	101	103531	21.254	ug/l	100
8) Diethyl Ether	3.41	74	40400	19.689	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	62099	20.092	ug/l	100
10) Methyl Iodide	3.95	142	83086	20.001	ug/l	99
11) Tert butyl alcohol	4.79	59	61495	98.502	ug/l	99
12) 1,1-Dichloroethene	3.73	96	62911	21.115	ug/l	96
13) Acrolein	3.61	56	19005	41.094	ug/l	97
14) Allyl chloride	4.32	41	106147	21.231	ug/l	98
15) Acrylonitrile	4.99	53	182076	104.442	ug/l	99
16) Acetone	3.82	43	185044	100.705	ug/l	98
17) Carbon Disulfide	4.05	76	160410	23.072	ug/l	99
18) Methyl Acetate	4.33	43	80103	17.013	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	199797	20.313	ug/l	99
20) Methylene Chloride	4.55	84	73726	19.205	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	66910	20.795	ug/l	97
22) Diisopropyl ether	5.95	45	220819	21.135	ug/l	96
23) Vinyl Acetate	5.90	43	900269	109.195	ug/l	99
24) 1,1-Dichloroethane	5.85	63	125355	20.933	ug/l	98
25) 2-Butanone	6.84	43	257997	104.652	ug/l	100
26) 2,2-Dichloropropane	6.82	77	89414	21.281	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	77167	20.564	ug/l	99
28) Bromochloromethane	7.19	49	60177	20.479	ug/l	98
29) Tetrahydrofuran	7.21	42	165313	108.130	ug/l	99
30) Chloroform	7.37	83	122928	20.838	ug/l	96
31) Cyclohexane	7.65	56	119810	20.609	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	100195	21.364	ug/l	99
36) 1,1-Dichloropropene	7.79	75	91996	19.963	ug/l	99
37) Ethyl Acetate	6.93	43	92227	20.345	ug/l	98
38) Carbon Tetrachloride	7.77	117	86535	21.201	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	114248	20.027	ug/l	96
40) Benzene	8.04	78	293986	20.726	ug/l	100
41) Methacrylonitrile	7.18	41	43788m	22.087	ug/l	
42) 1,2-Dichloroethane	8.12	62	93276	20.017	ug/l	100
43) Isopropyl Acetate	8.17	43	148295	21.128	ug/l	99
44) Trichloroethene	8.84	130	77528	20.372	ug/l	95
45) 1,2-Dichloropropane	9.12	63	76850	20.273	ug/l	99
46) Dibromomethane	9.21	93	49219	20.776	ug/l	100
47) Bromodichloromethane	9.40	83	90168	21.272	ug/l	98
48) Methyl methacrylate	9.20	41	72173	20.483	ug/l	99
49) 1,4-Dioxane	9.20	88	29351	404.550	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	487518	107.567	ug/l	98
52) Toluene	10.16	92	174779	20.174	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	94796	22.100	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	109449	21.498	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	73307	21.081	ug/l	96
56) Ethyl methacrylate	10.43	69	107122	20.926	ug/l	99
57) 1,3-Dichloropropane	10.71	76	121075	20.746	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	254353	129.735	ug/l	100
59) 2-Hexanone	10.75	43	353388	105.735	ug/l	99
60) Dibromochloromethane	10.90	129	71134	22.221	ug/l	100
61) 1,2-Dibromoethane	11.00	107	72234	20.340	ug/l	99
64) Tetrachloroethene	10.63	164	77956	21.337	ug/l	98
65) Chlorobenzene	11.43	112	184499	20.062	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	68359	21.768	ug/l	99
67) Ethyl Benzene	11.51	91	325179	20.092	ug/l	100
68) m/p-Xylenes	11.62	106	243157	40.968	ug/l	99
69) o-Xylene	11.95	106	120188	20.472	ug/l	100
70) Styrene	11.96	104	195234	20.787	ug/l	100
71) Bromoform	12.12	173	51635	23.188	ug/l #	99
73) Isopropylbenzene	12.25	105	312345	18.667	ug/l	100
74) N-amyl acetate	12.07	43	113904	18.723	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	102456	19.548	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	87696m	21.824	ug/l	
77) Bromobenzene	12.53	156	80920	19.054	ug/l	99
78) n-propylbenzene	12.59	91	339636	19.422	ug/l	99
79) 2-Chlorotoluene	12.67	91	211734	19.256	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	265504	19.404	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	25591	21.814	ug/l	94
82) 4-Chlorotoluene	12.77	91	202176	19.597	ug/l	99
83) tert-Butylbenzene	12.99	119	224753	18.064	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	261969	20.354	ug/l	100
85) sec-Butylbenzene	13.17	105	293753	19.187	ug/l	99
86) p-Isopropyltoluene	13.29	119	267503	20.283	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	130078	20.076	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	125034	19.842	ug/l	99
89) n-Butylbenzene	13.61	91	210137	20.720	ug/l	99
90) Hexachloroethane	13.87	117	42077	20.302	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	134751	20.924	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	17187	23.814	ug/l	92

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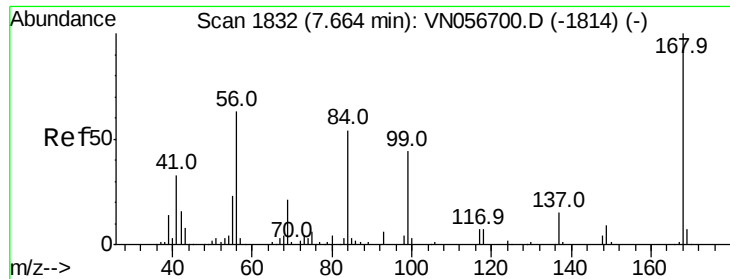
Manual Integrations
APPROVED

MMDadoda
7/17/2019 1:31:17 AM

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	63735	22.933	ug/l	98
94) Hexachlorobutadiene	15.01	225	47495	19.451	ug/l	98
95) Naphthalene	15.13	128	158265	21.570	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	65253	22.042	ug/l	98

(#) = 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: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 336050

Ion Ratio Lower Upper

168 100

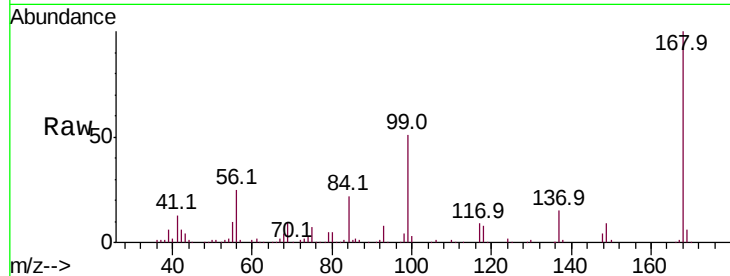
99 50.4 39.4 59.2

Manual Integrations

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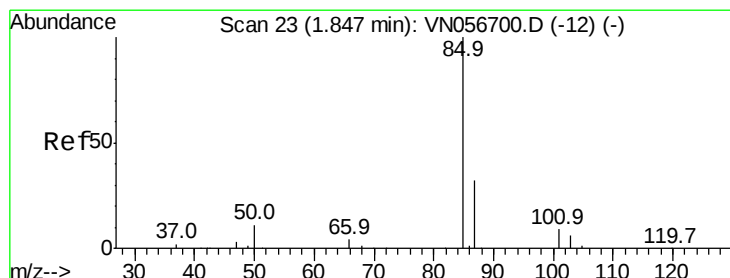
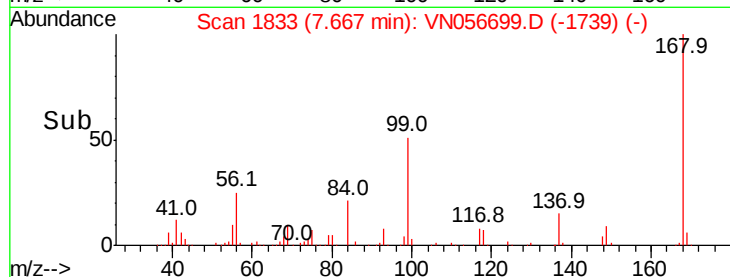
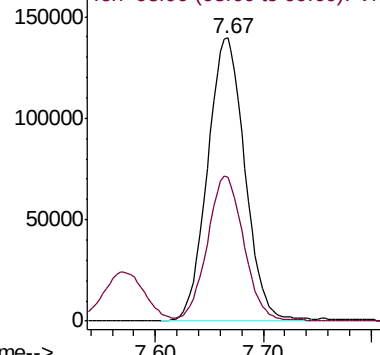
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 21.426 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN056699.D

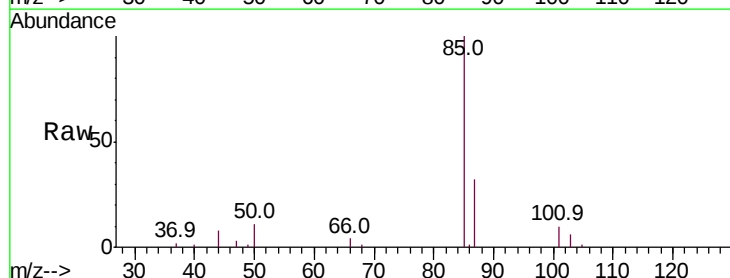
Acq: 15 Jul 2019 9:33

Tgt Ion: 85 Resp: 61269

Ion Ratio Lower Upper

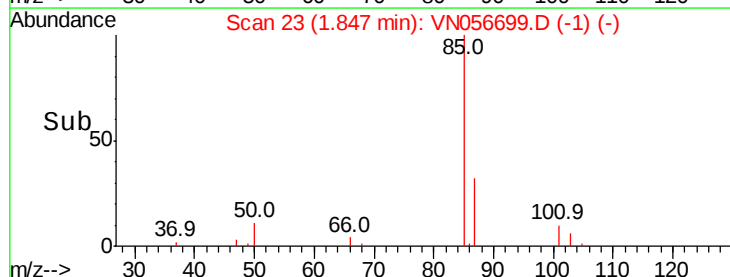
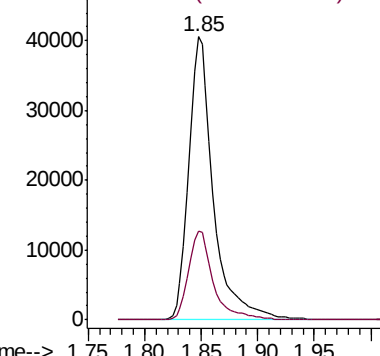
85 100

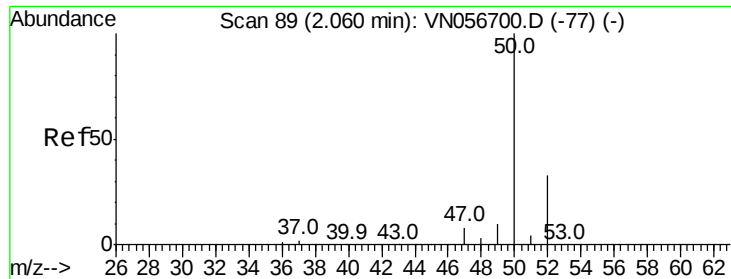
87 31.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 21.155 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 82625

Ion Ratio Lower Upper

50 100

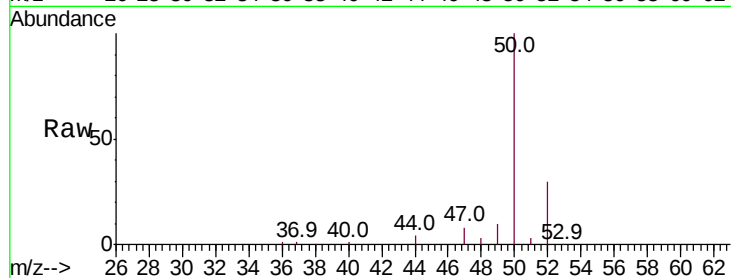
52 30.3 26.5 39.7

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN056700.D (-77) (-)

Ion 51.90 (51.60 to 52.60): VN056700.D (-77) (-)

2.06

60000

50000

40000

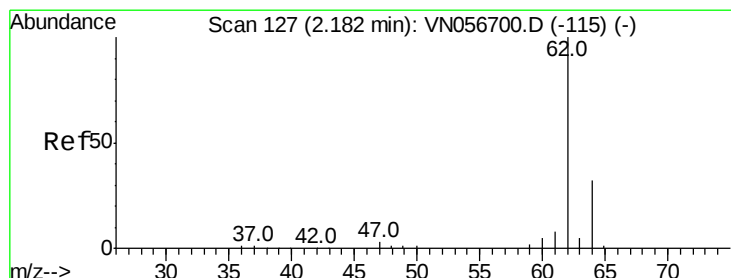
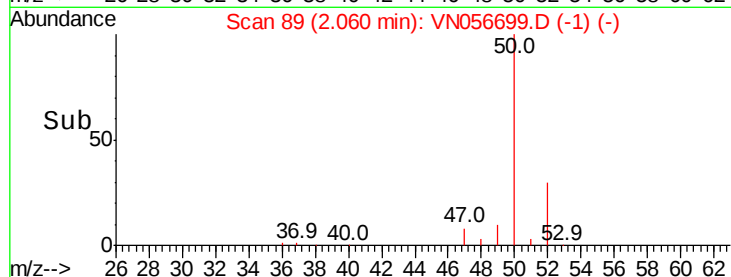
30000

20000

10000

0

Time-->



#4

Vinyl Chloride

Concen: 21.504 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056699.D

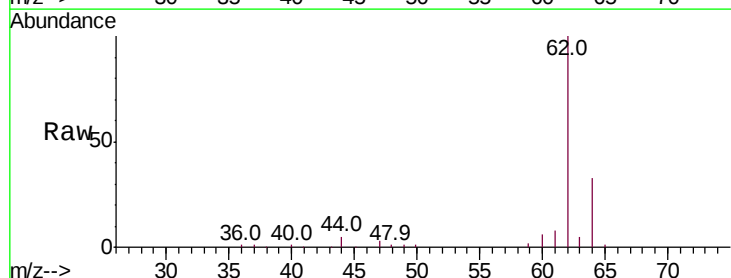
Acq: 15 Jul 2019 9:33

Tgt Ion: 62 Resp: 81060

Ion Ratio Lower Upper

62 100

64 32.7 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN056700.D (-115) (-)

Ion 63.90 (63.60 to 64.60): VN056700.D (-115) (-)

2.18

60000

50000

40000

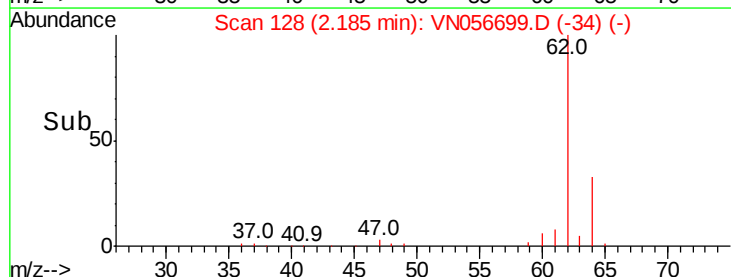
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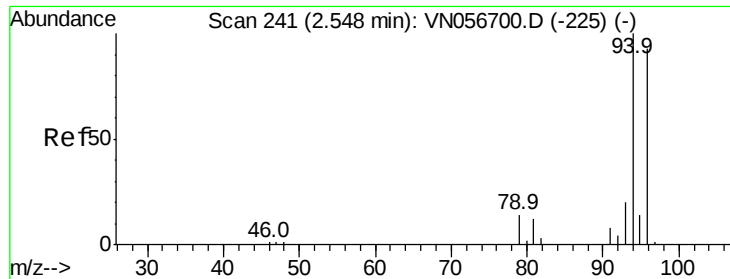
20000

10000

0

Time-->





#5

Bromomethane

Concen: 22.358 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 49013

Ion Ratio Lower Upper

94 100

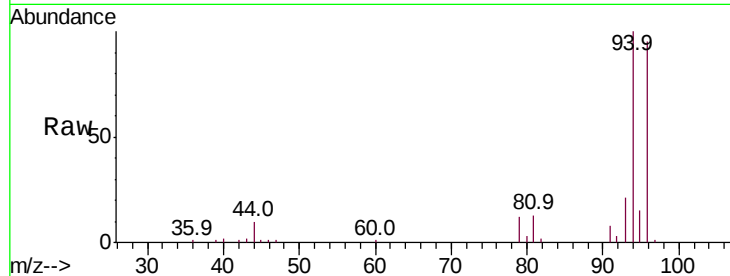
96 94.6 74.0 111.0

Manual Integrations

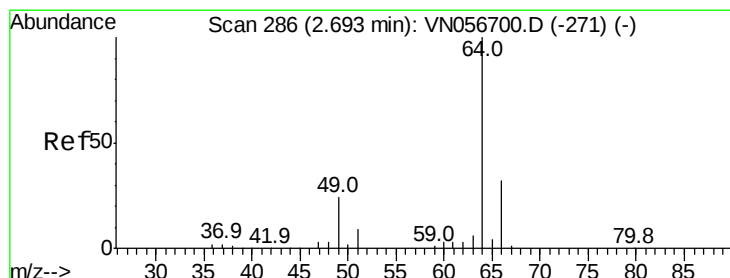
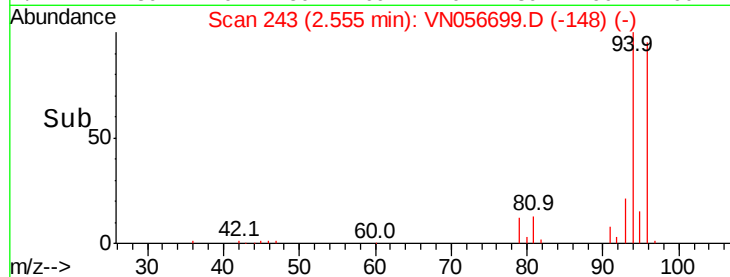
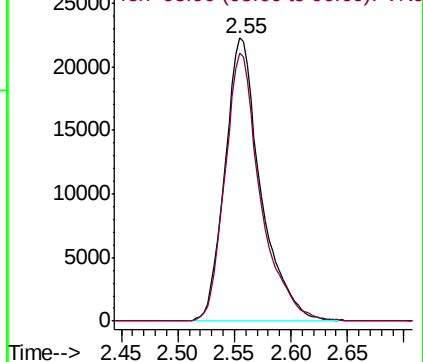
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Abundance Ion 93.90 (93.60 to 94.60): VN056699.D (-148) (-)



#6

Chloroethane

Concen: 20.880 ug/l

RT: 2.70 min Scan# 287

Delta R.T. 0.00 min

Lab File: VN056699.D

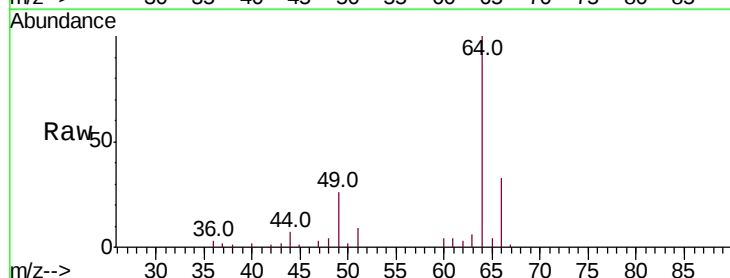
Acq: 15 Jul 2019 9:33

Tgt Ion: 64 Resp: 45394

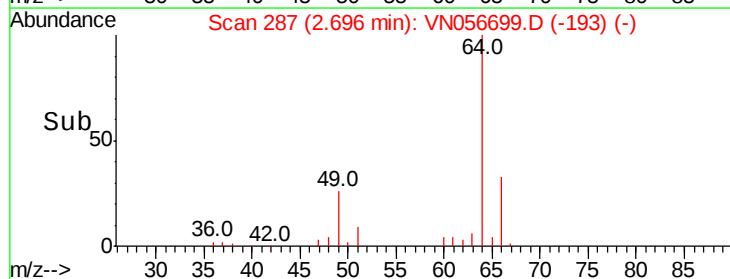
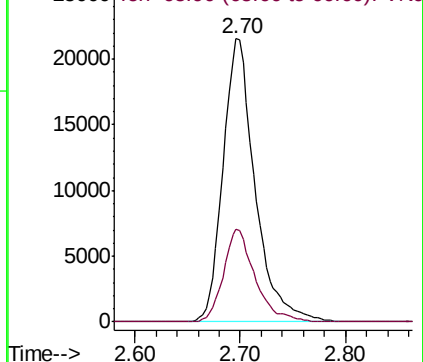
Ion Ratio Lower Upper

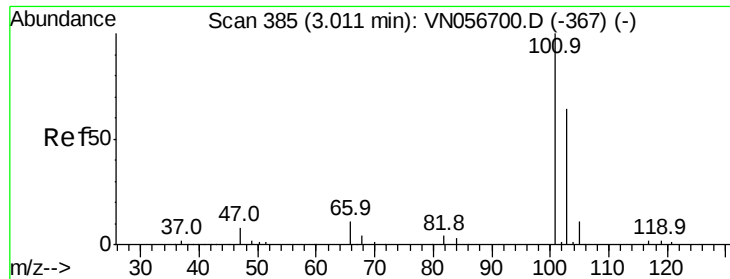
64 100

66 32.8 25.8 38.8



Abundance Ion 63.90 (63.60 to 64.60): VN056699.D (-193) (-)





#7

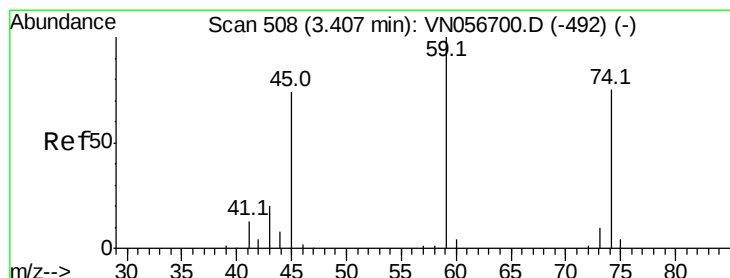
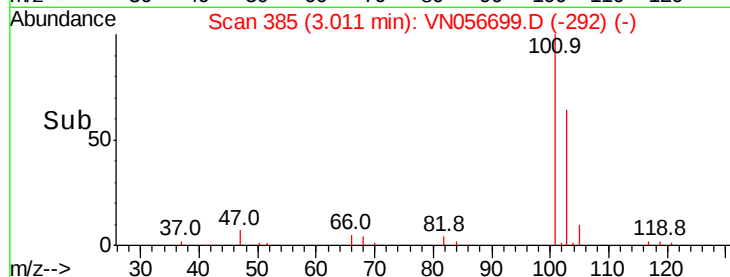
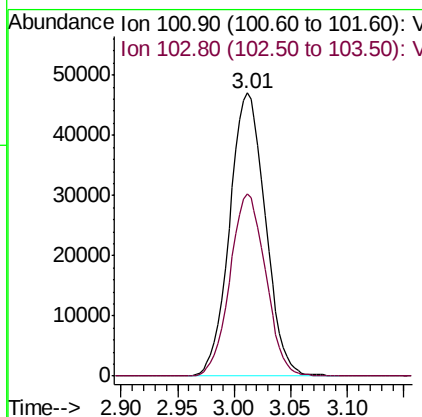
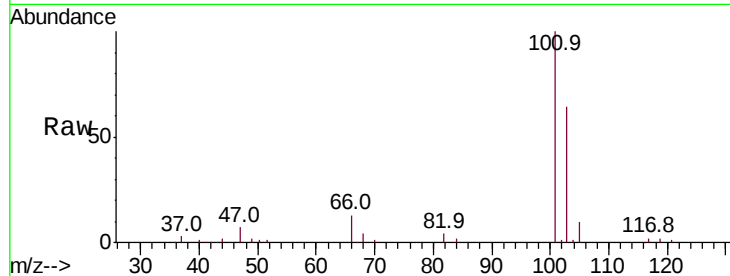
Trichlorofluoromethane
 Concen: 21.254 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
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 VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.5	77.3

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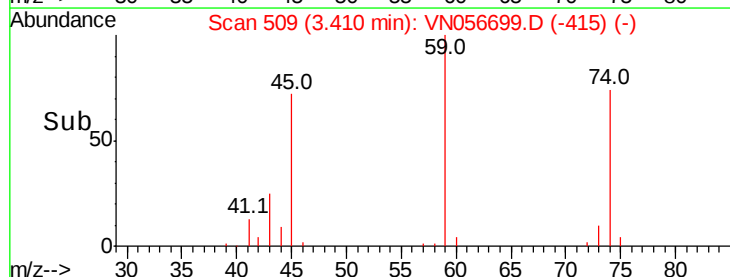
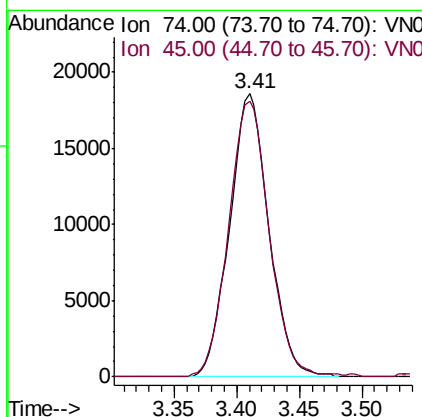
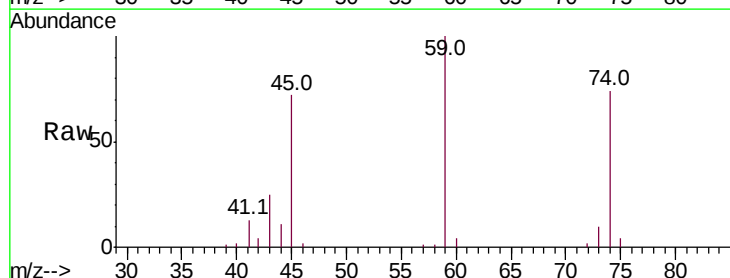
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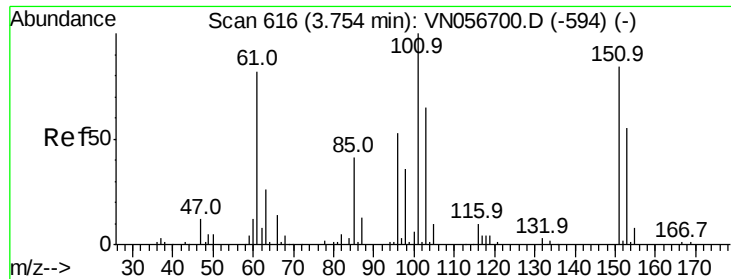


#8

Diethyl Ether
 Concen: 19.689 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.7	49.4	148.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.092 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

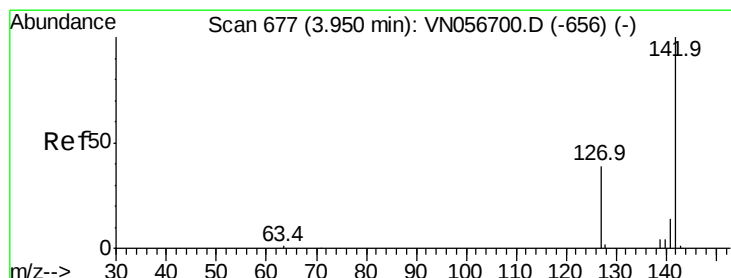
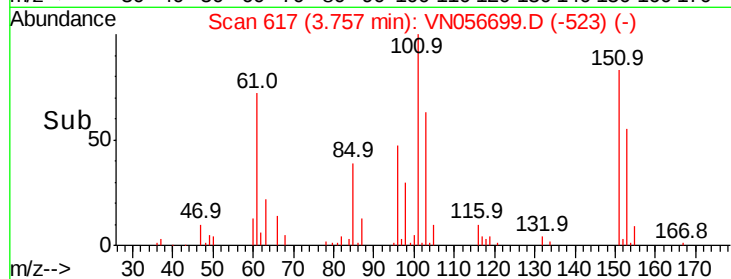
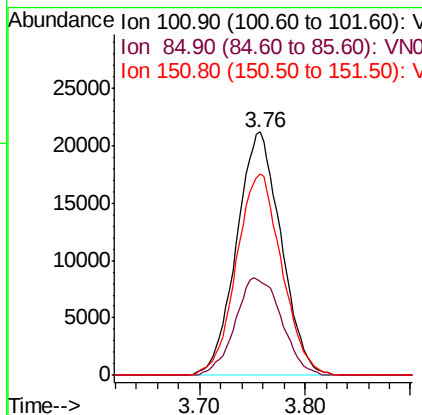
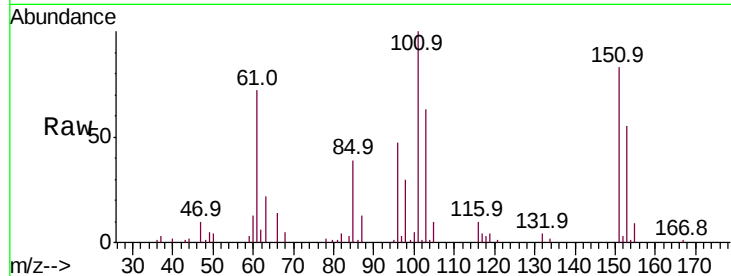
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	62099
Ion Ratio	Lower	Upper	
101	100		
85	41.7	33.3	49.9
151	84.4	67.0	100.6

Manual Integrations
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#10

Methyl Iodide

Concen: 20.001 ug/l

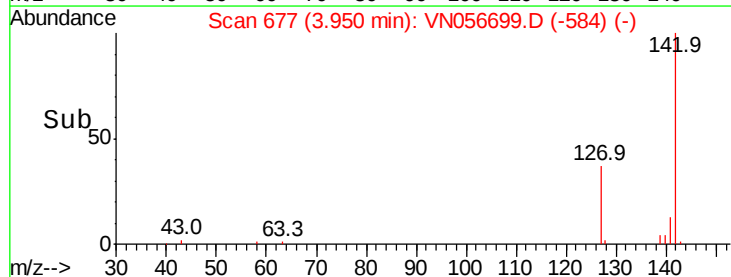
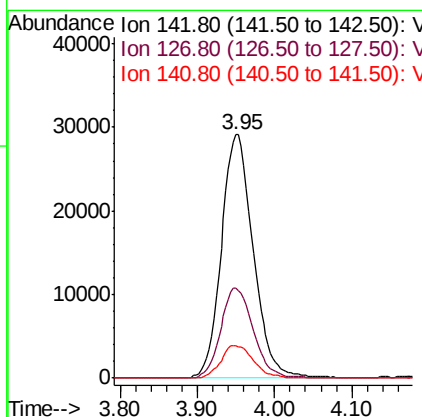
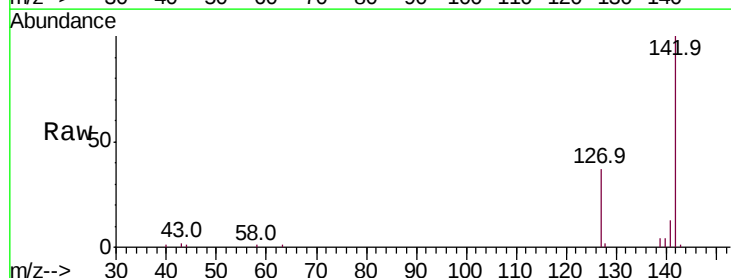
RT: 3.95 min Scan# 677

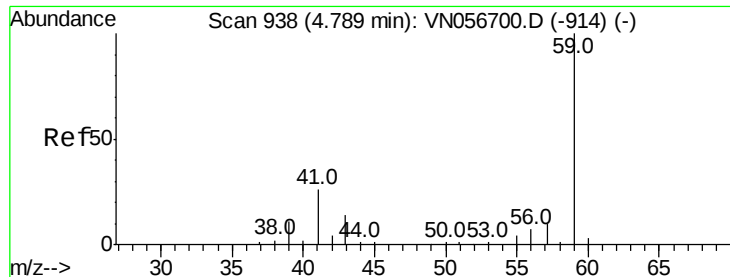
Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Tgt Ion:	142	Resp:	83086
Ion Ratio	Lower	Upper	
142	100		
127	37.8	30.7	46.1
141	13.7	11.3	16.9





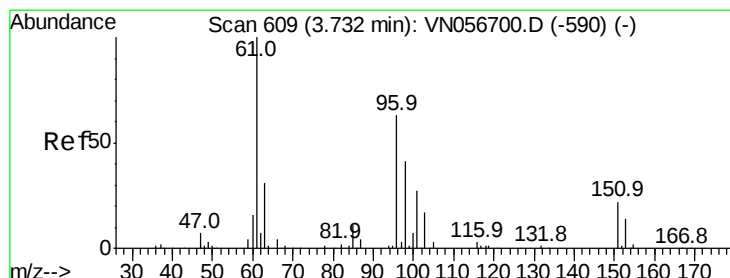
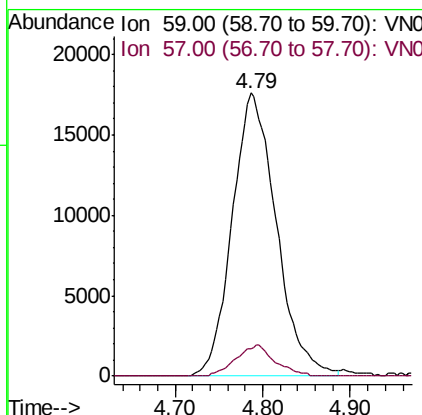
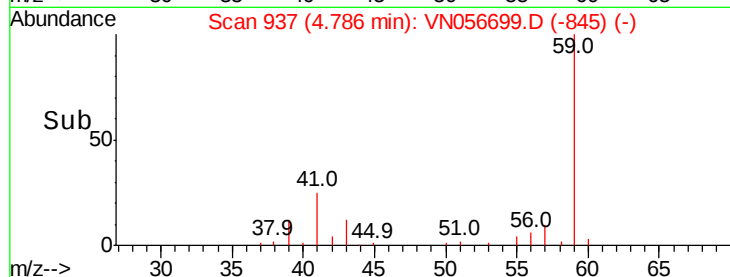
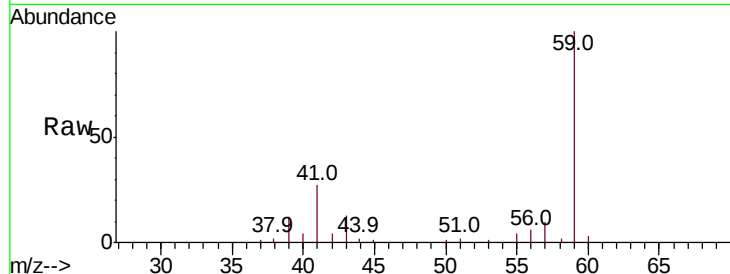
#11
Tert butyl alcohol
Concen: 98.502 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.0	12.0

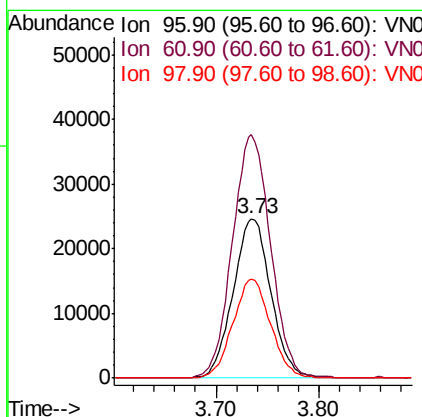
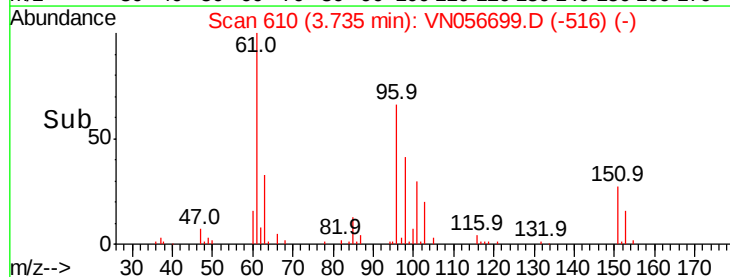
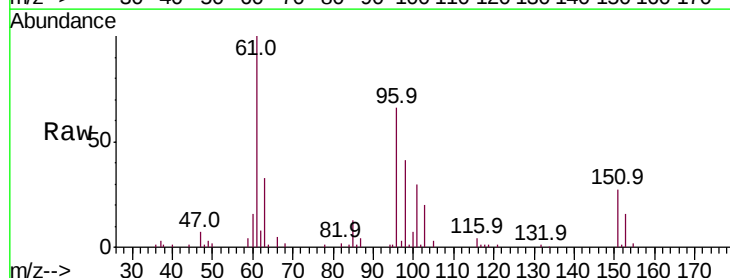
Manual Integrations
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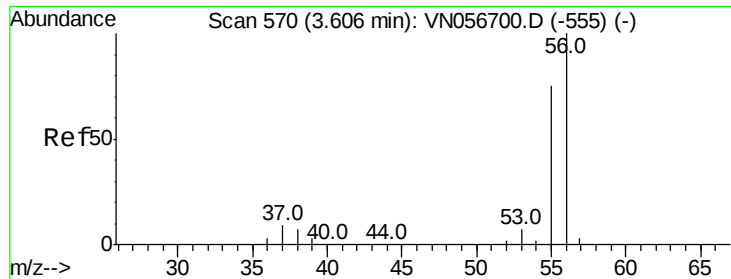
MMDadoda
7/17/2019 1:31:17 AM



#12
1,1-Dichloroethene
Concen: 21.115 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.4	126.6	189.8
98	61.8	51.4	77.2





#13

Acrolein

Concen: 41.094 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 19005

Ion Ratio Lower Upper

56 100

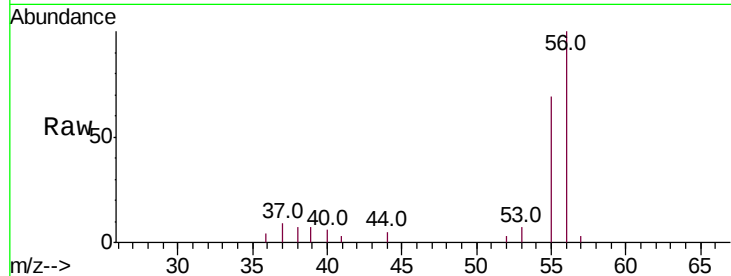
55 70.1 58.0 87.0

Manual Integrations

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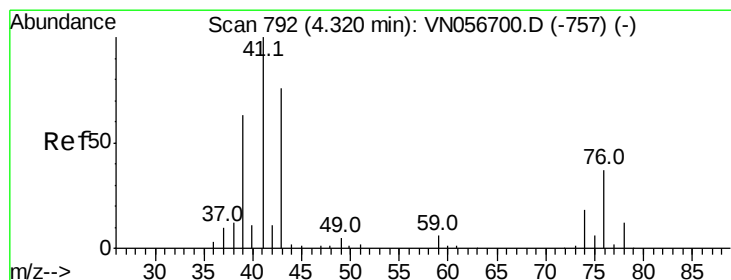
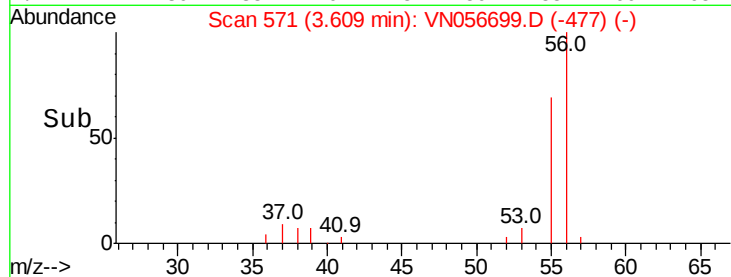
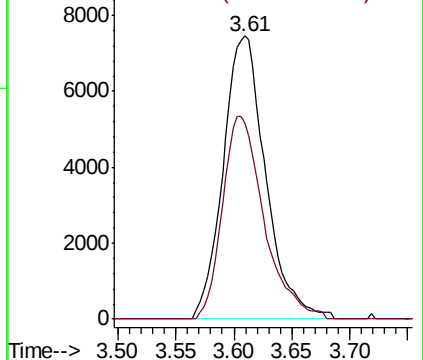
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 21.231 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

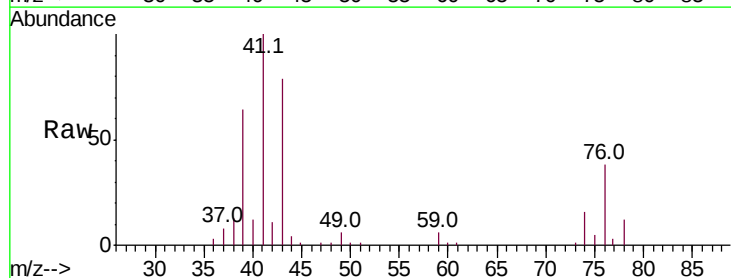
Tgt Ion: 41 Resp: 106147

Ion Ratio Lower Upper

41 100

39 60.8 46.9 70.3

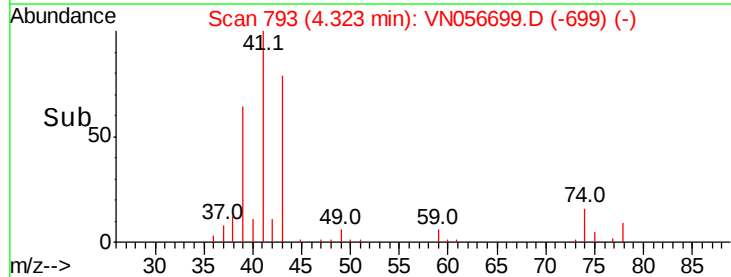
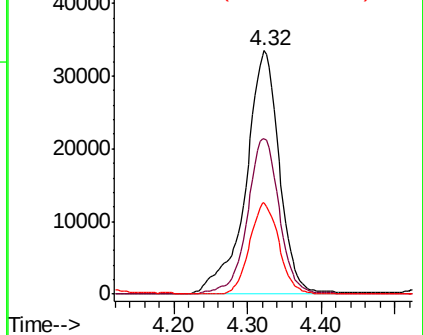
76 32.8 26.5 39.7

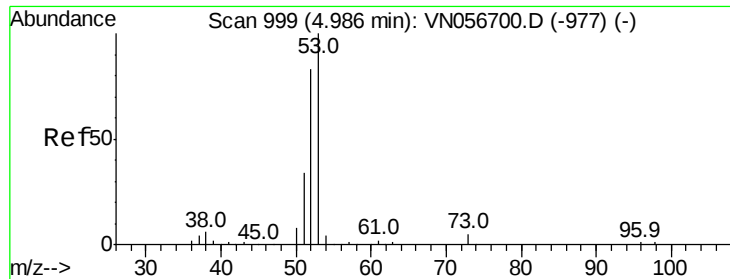


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 104.442 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

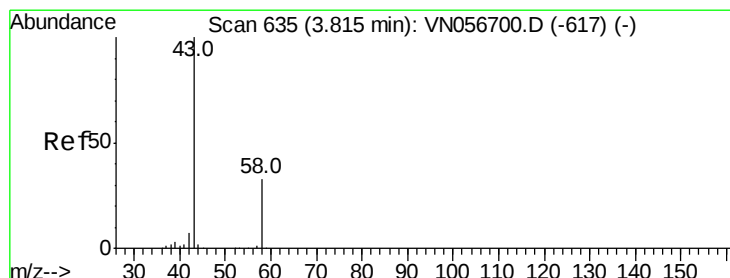
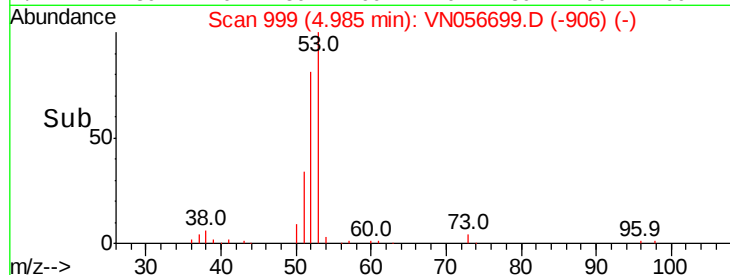
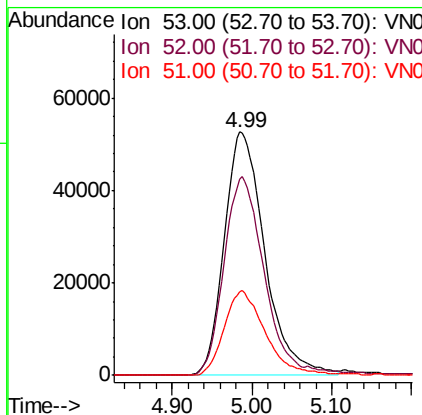
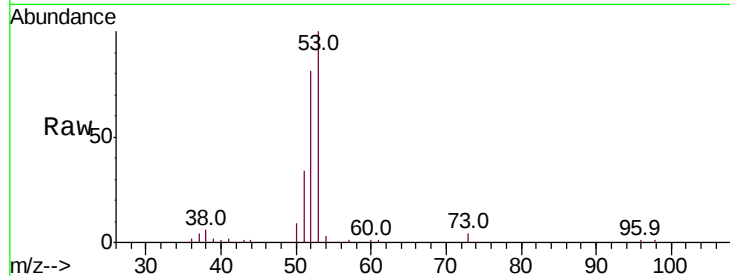
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	182076
Ion Ratio	Lower	Upper	
53	100		
52	81.5	66.6	99.8
51	35.6	28.4	42.6

Manual Integrations
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#16

Acetone

Concen: 100.705 ug/l

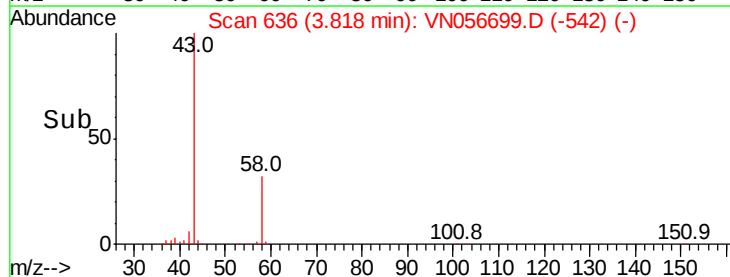
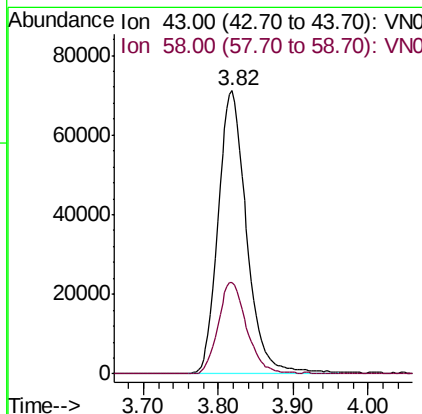
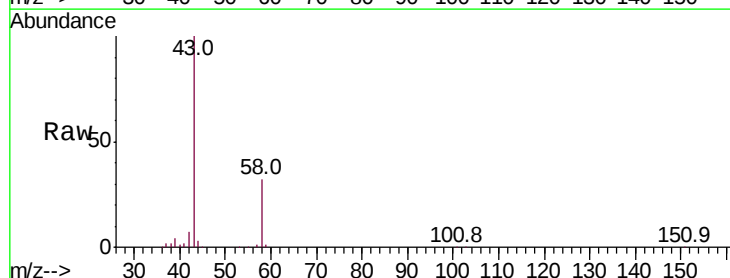
RT: 3.82 min Scan# 636

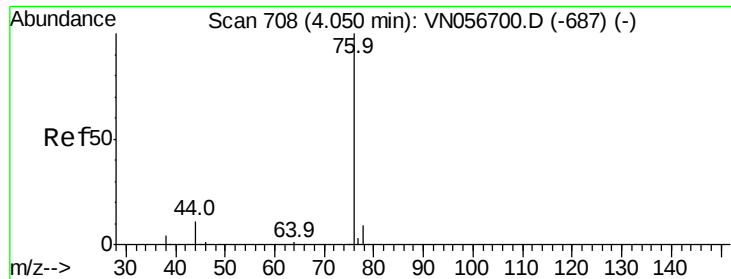
Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Tgt Ion:	43	Resp:	185044
Ion Ratio	Lower	Upper	
43	100		
58	32.4	26.7	40.1





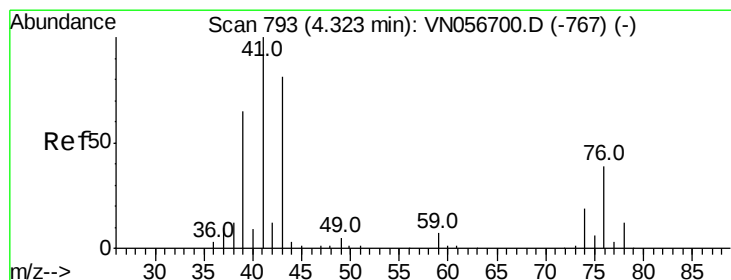
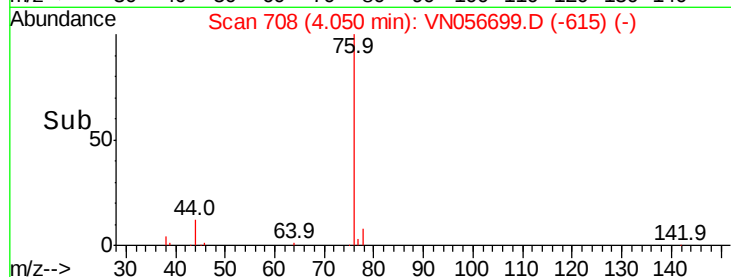
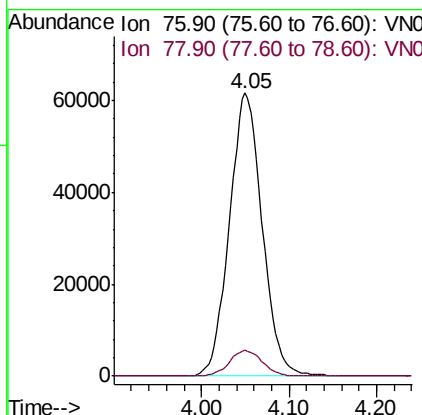
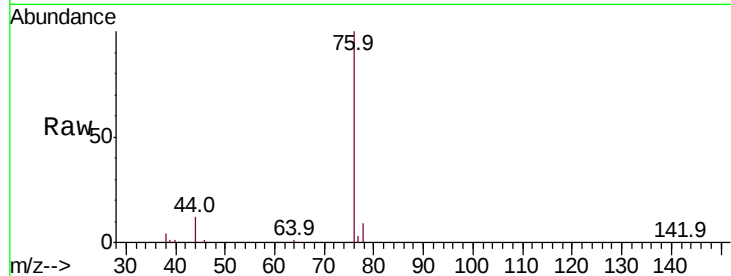
#17
Carbon Disulfide
Concen: 23.072 ug/l
RT: 4.05 min Scan# 708
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 76 Resp: 160410
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.0

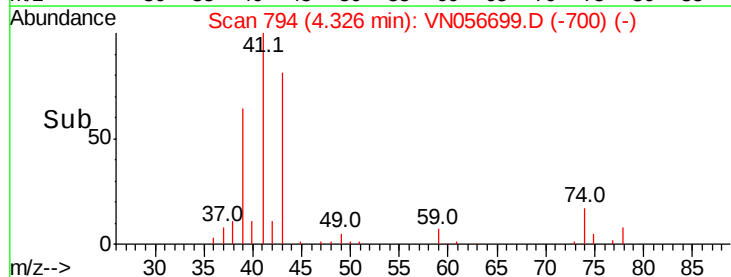
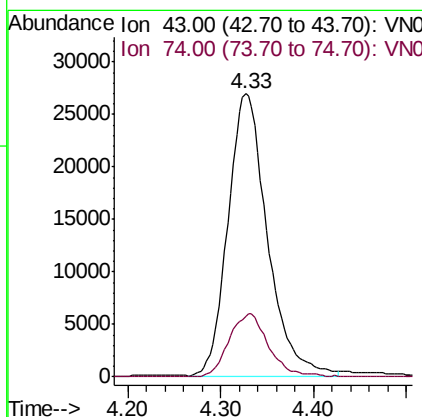
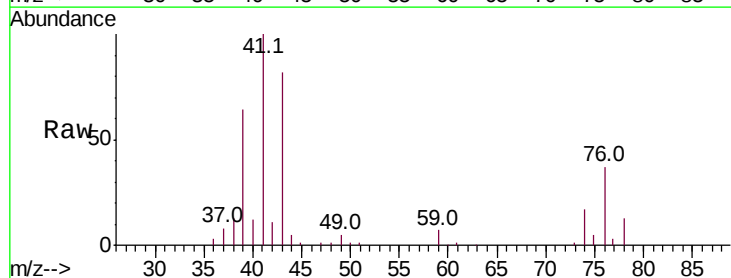
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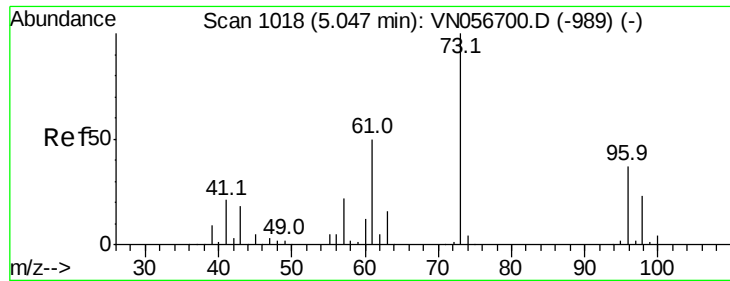
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#18
Methyl Acetate
Concen: 17.013 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion: 43 Resp: 80103
Ion Ratio Lower Upper
43 100
74 22.2 18.9 28.3





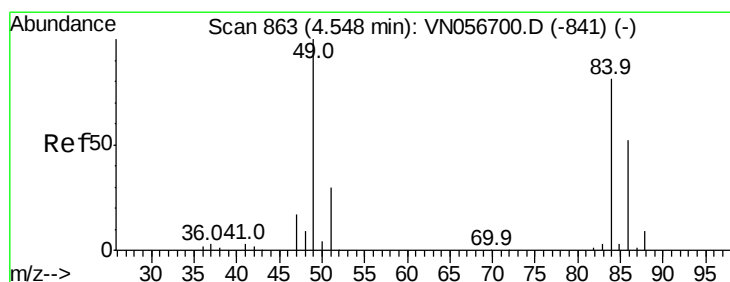
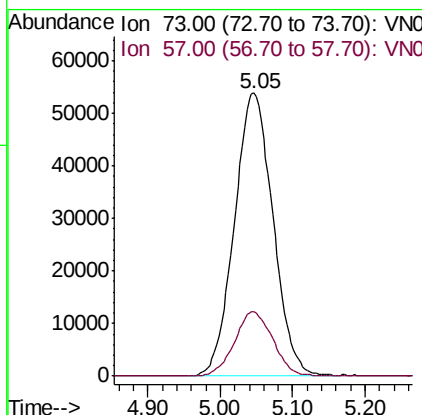
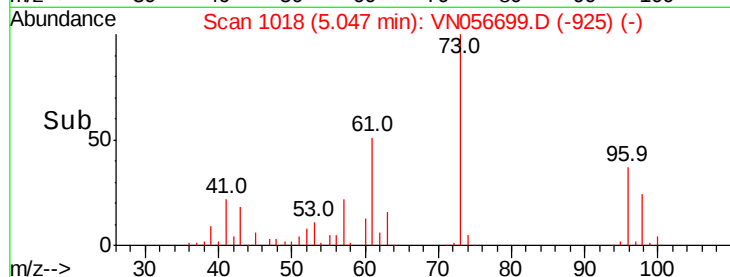
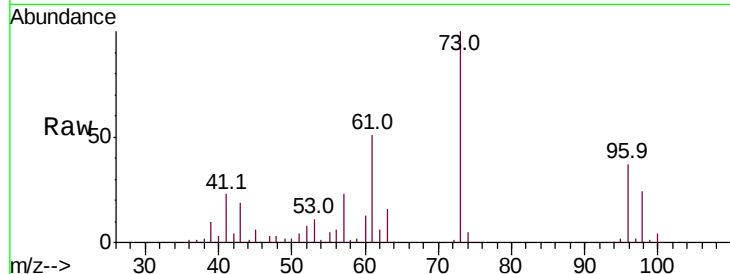
#19
Methyl tert-butyl Ether
Concen: 20.313 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 73 Resp: 199797
Ion Ratio Lower Upper
73 100
57 22.9 17.9 26.9

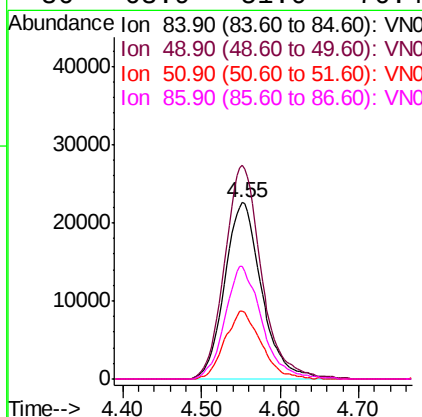
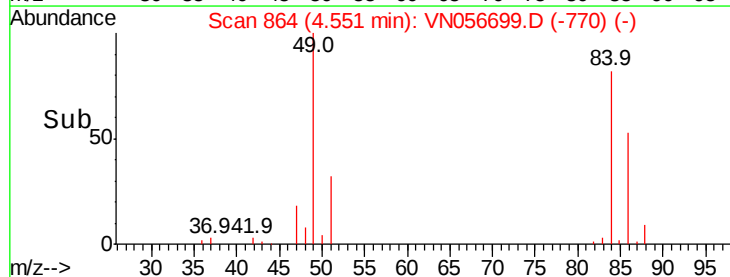
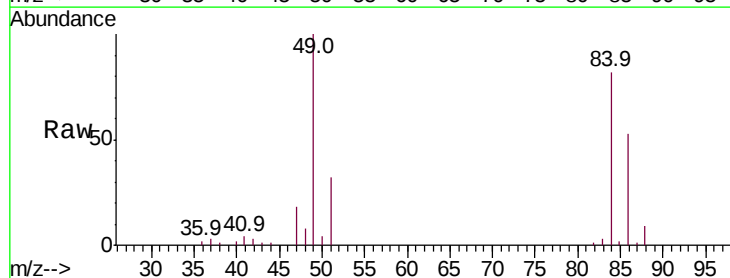
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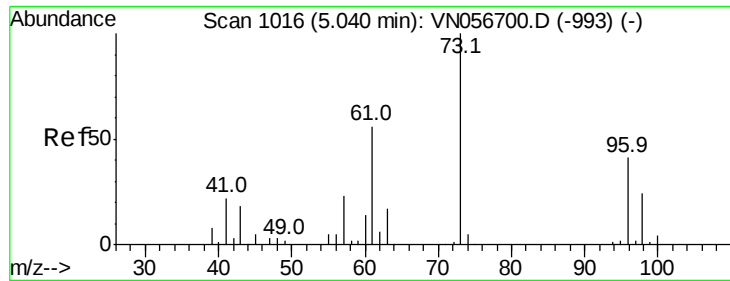
MMDadoda
7/17/2019 1:31:17 AM



#20
Methylene Chloride
Concen: 19.205 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion: 84 Resp: 73726
Ion Ratio Lower Upper
84 100
49 121.3 98.2 147.4
51 38.9 29.6 44.4
86 63.9 51.0 76.4





#21

trans-1,2-Dichloroethene

Concen: 20.795 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 96 Resp: 66910

Ion Ratio Lower Upper

96 100

61 139.9 109.4 164.2

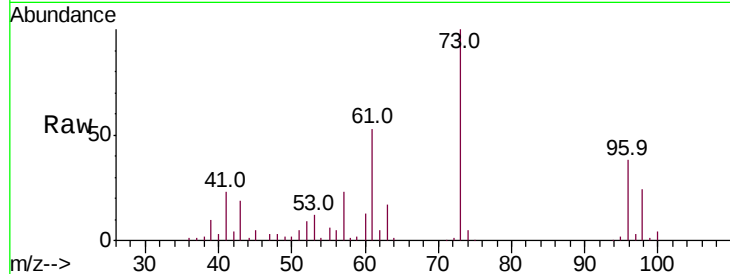
98 63.4 48.0 72.0

Manual Integrations

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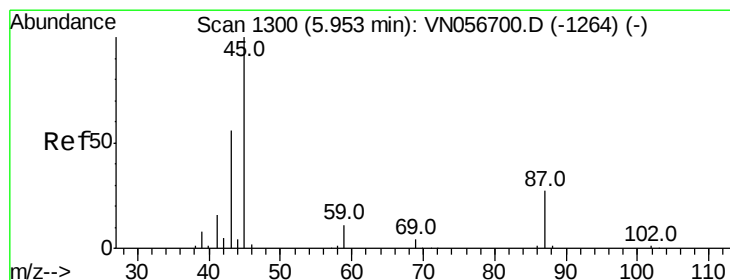
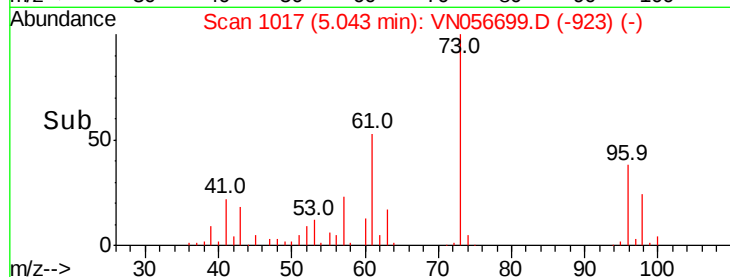
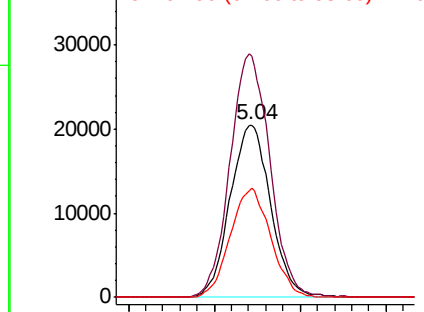


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 21.135 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Tgt Ion: 45 Resp: 220819

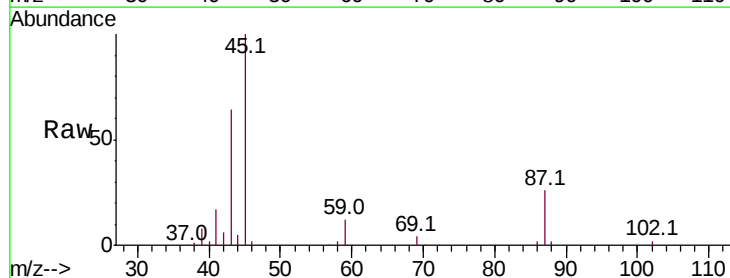
Ion Ratio Lower Upper

45 100

43 61.6 45.6 68.4

87 26.3 22.0 33.0

59 11.4 9.3 13.9



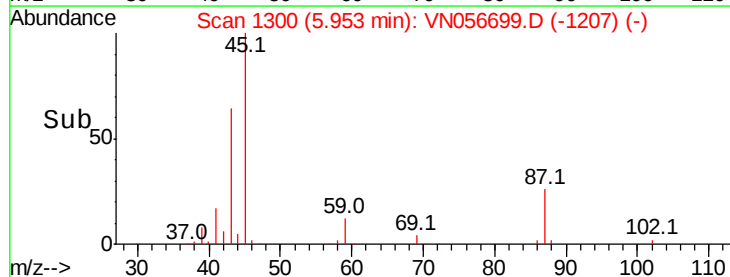
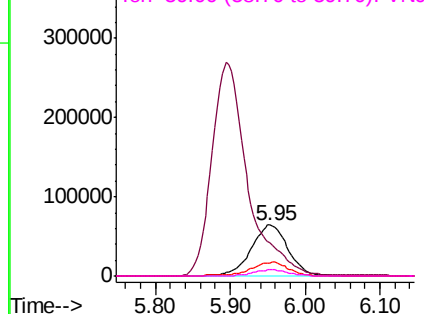
Abundance

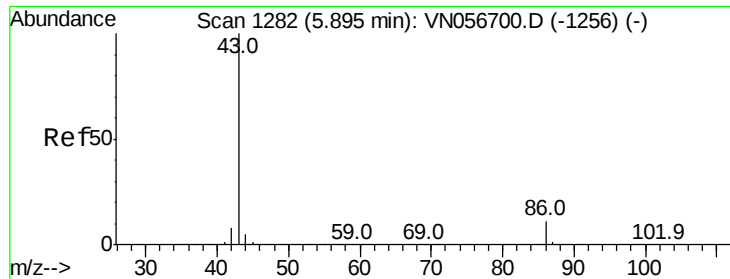
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 109.195 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 900269

Ion Ratio Lower Upper

43 100

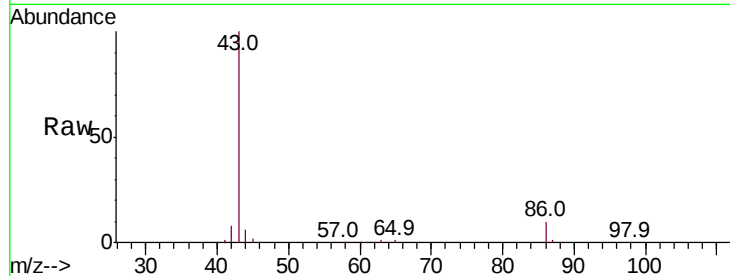
86 10.3 8.5 12.7

Manual Integrations

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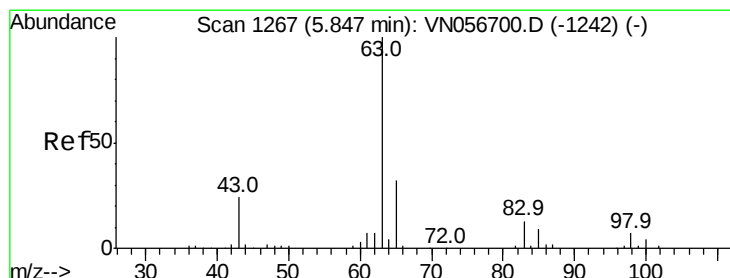
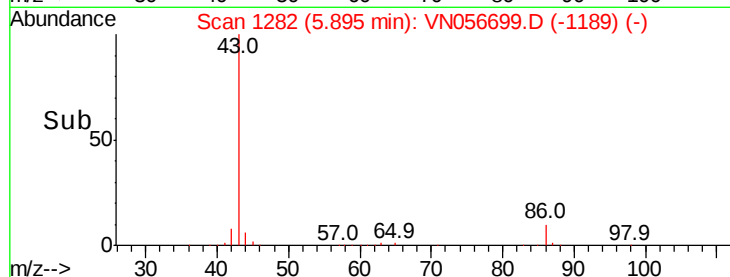
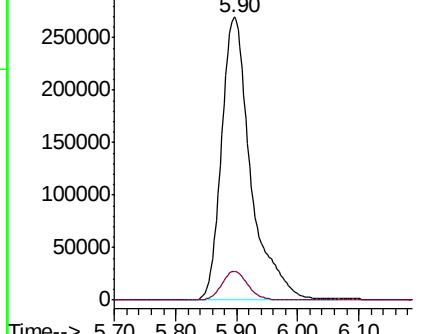
MMDadoda

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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: 20.933 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

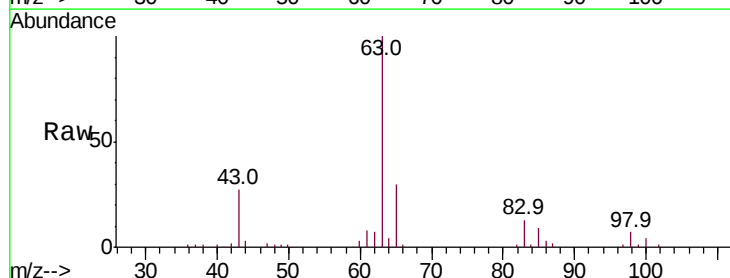
Tgt Ion: 63 Resp: 125355

Ion Ratio Lower Upper

63 100

98 7.4 3.3 9.9

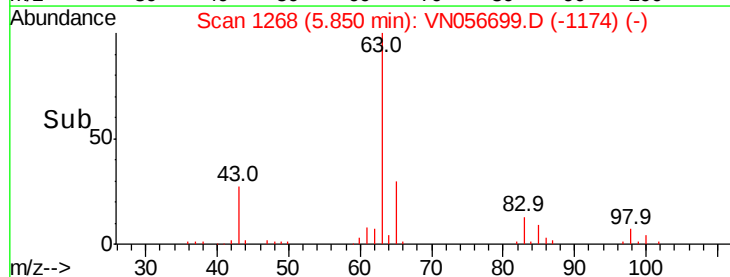
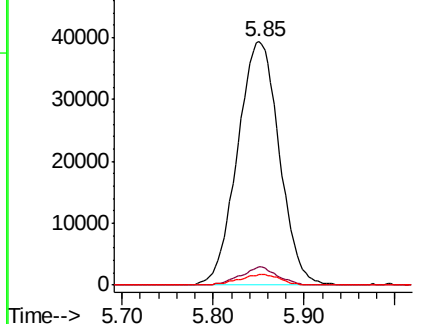
100 4.2 2.0 5.8

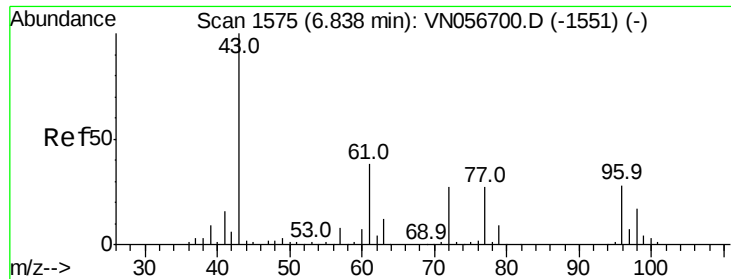


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





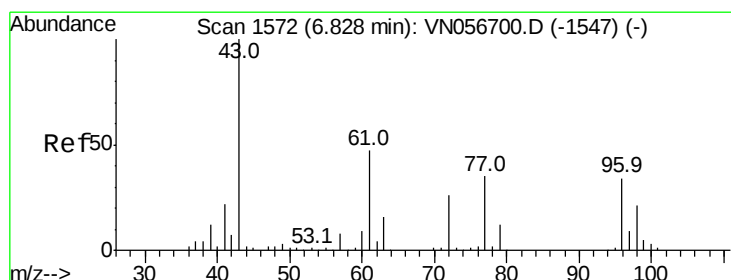
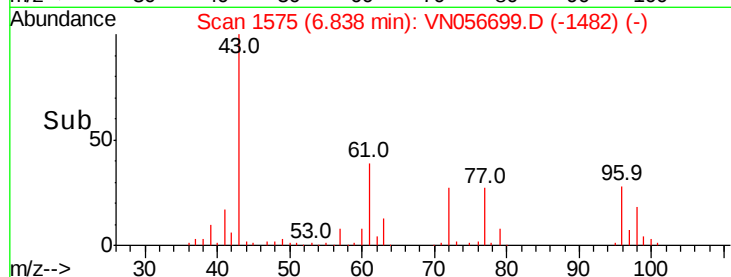
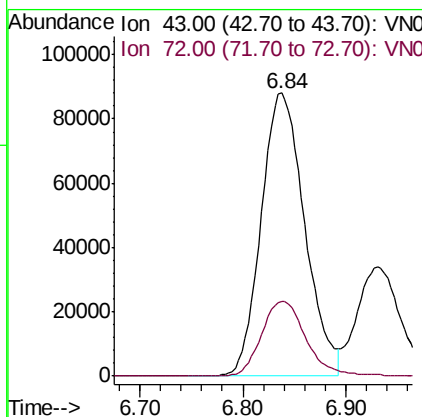
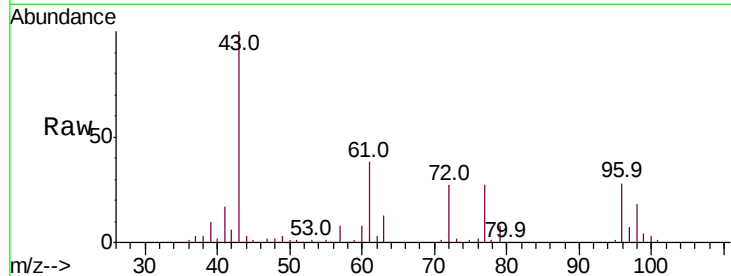
#25
2-Butanone
Concen: 104.652 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 257997
Ion Ratio Lower Upper
43 100
72 26.5 21.2 31.8

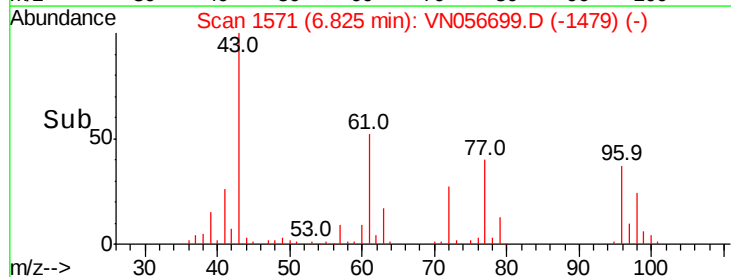
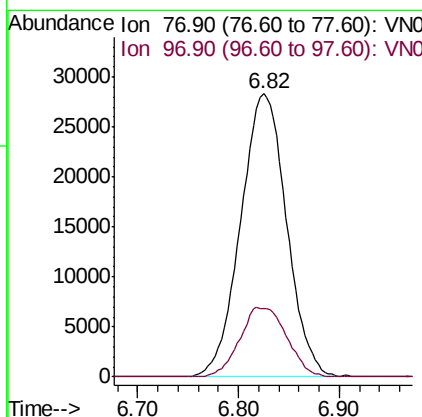
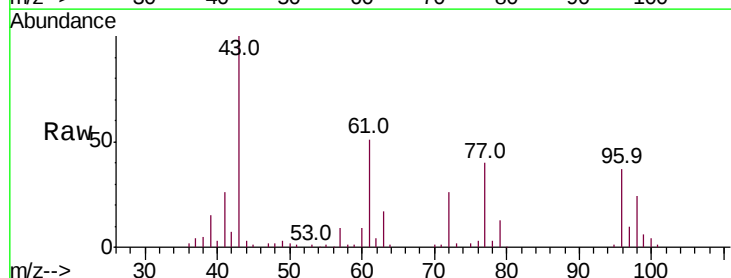
Manual Integrations
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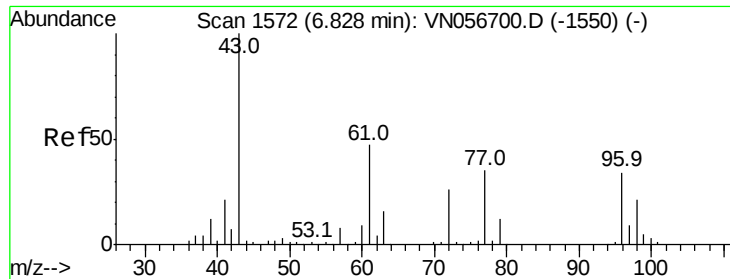
MMDadoda
7/17/2019 1:31:17 AM



#26
2,2-Dichloropropane
Concen: 21.281 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion: 77 Resp: 89414
Ion Ratio Lower Upper
77 100
97 25.1 12.2 36.6





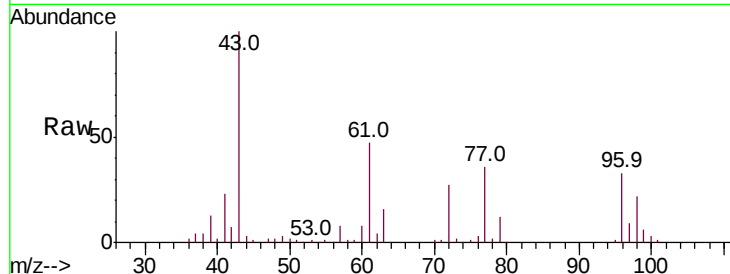
#27
 cis-1,2-Dichloroethene
 Concen: 20.564 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.0	0.0	281.4
98	65.2	0.0	127.8

Manual Integrations
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MMDadoda
 7/17/2019 1:31:17 AM

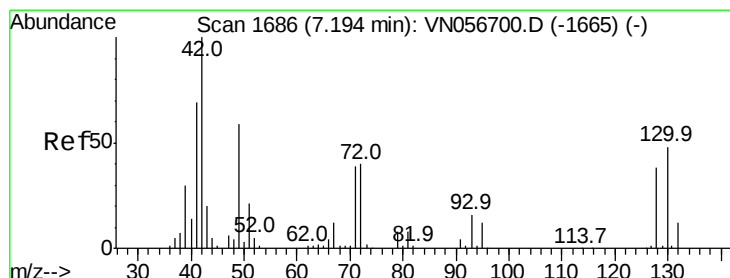
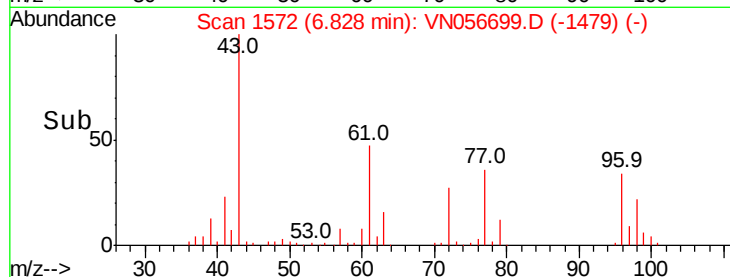
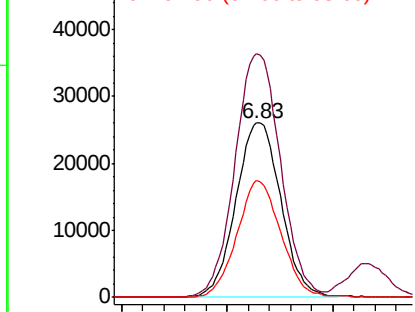


Abundance

Ion 95.90 (95.60 to 96.60): VN0

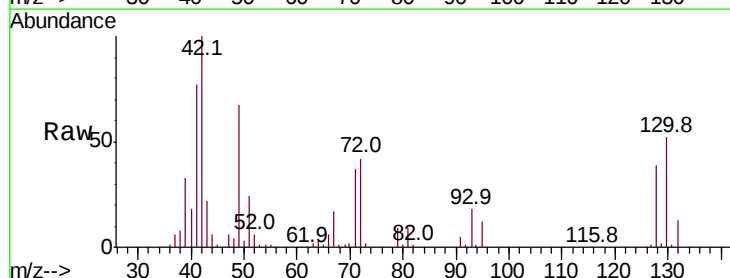
Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28
 Bromochloromethane
 Concen: 20.479 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	79.4	64.7	97.1

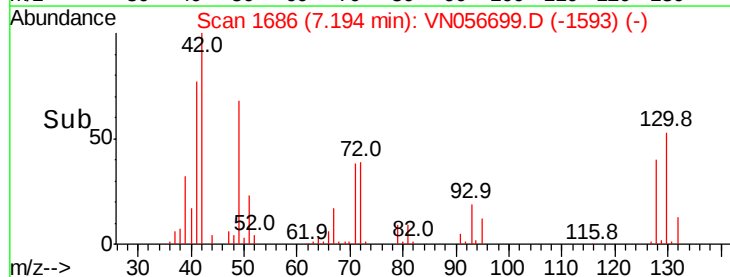
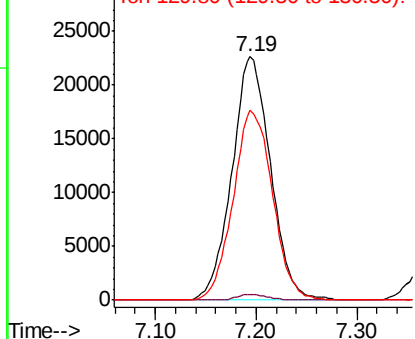


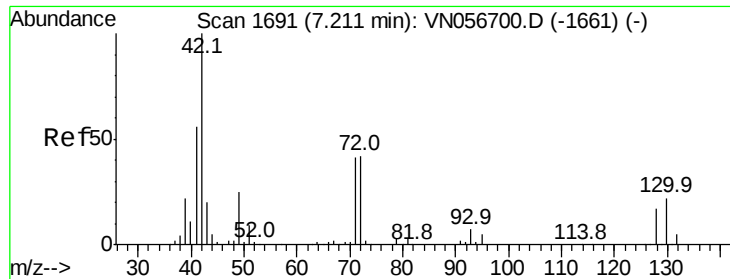
Abundance

Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





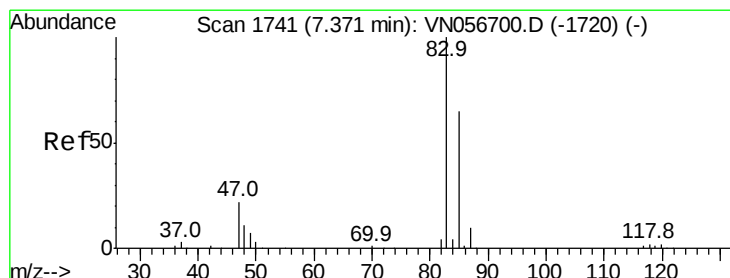
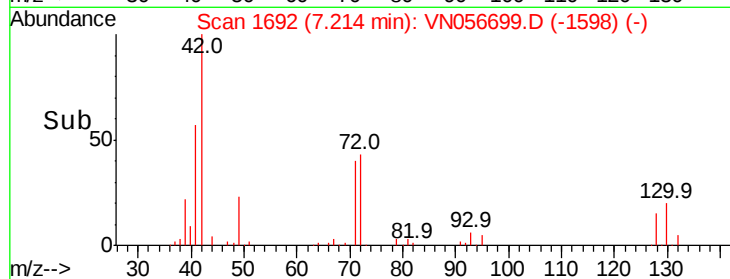
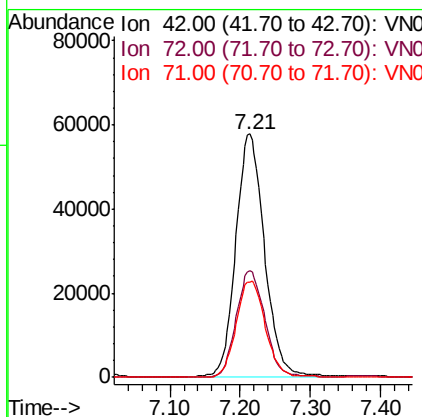
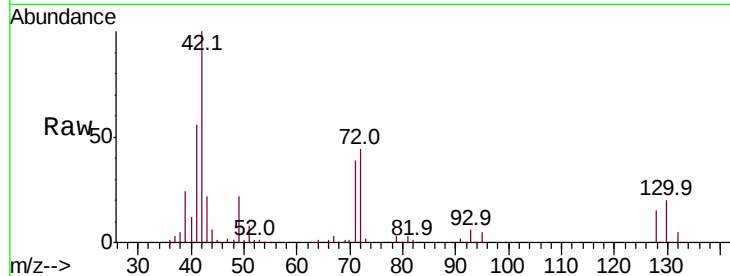
#29
Tetrahydrofuran
Concen: 108.130 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.3	33.5	50.3
71	39.8	31.8	47.8

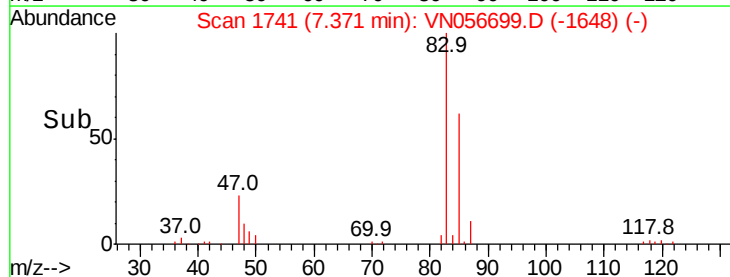
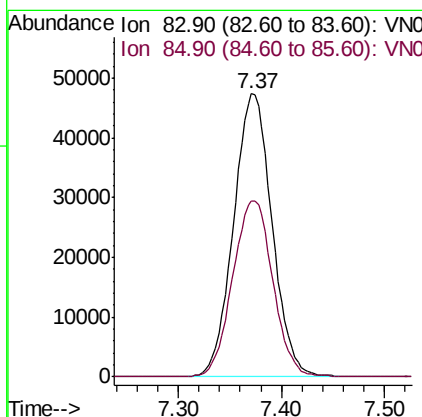
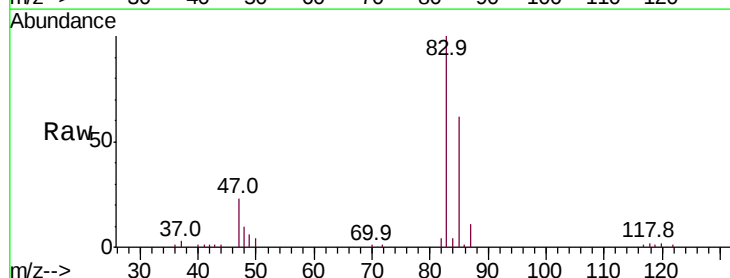
Manual Integrations
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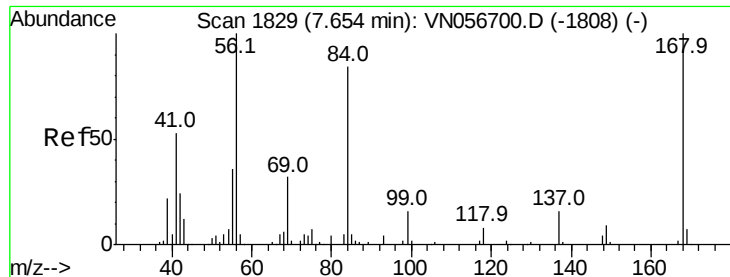
MMDadoda
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#30
Chloroform
Concen: 20.838 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.0	51.9	77.9





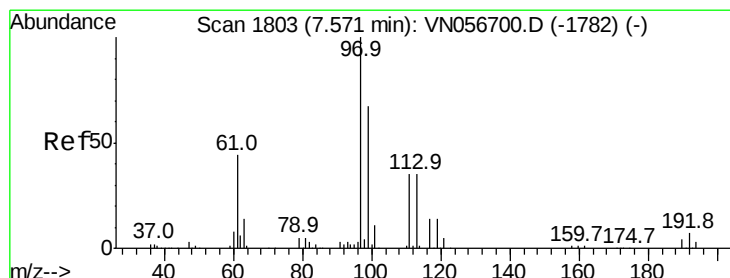
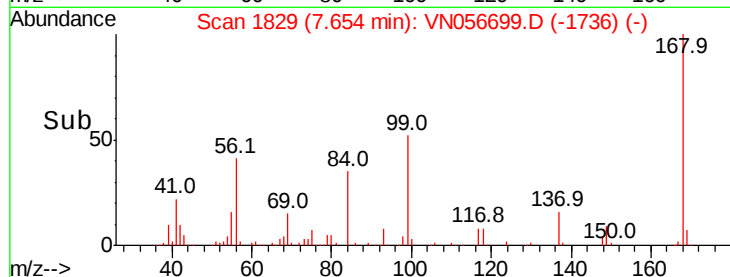
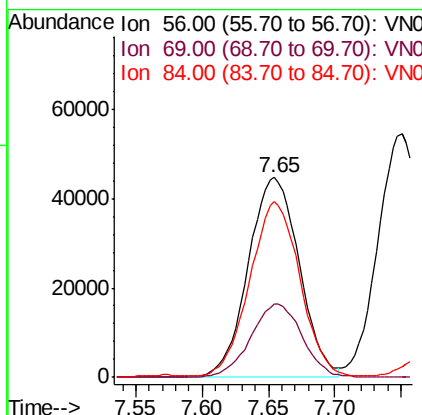
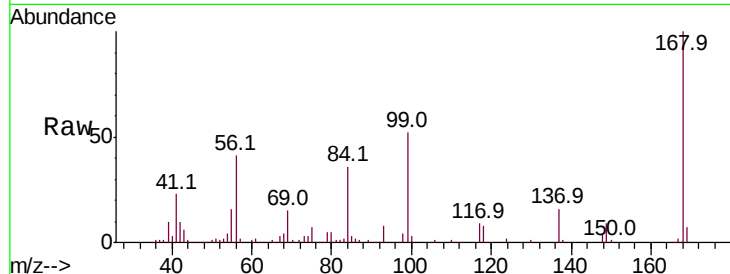
#31
Cyclohexane
Concen: 20.609 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.8	25.8	38.8
84	87.5	67.4	101.0

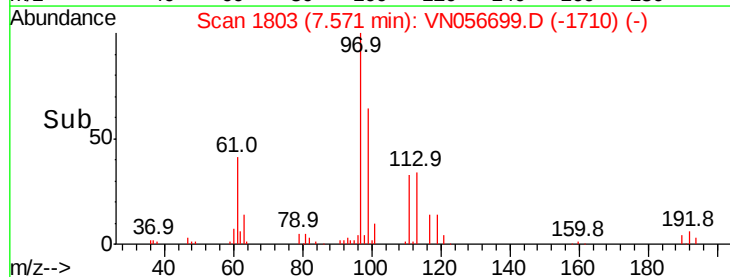
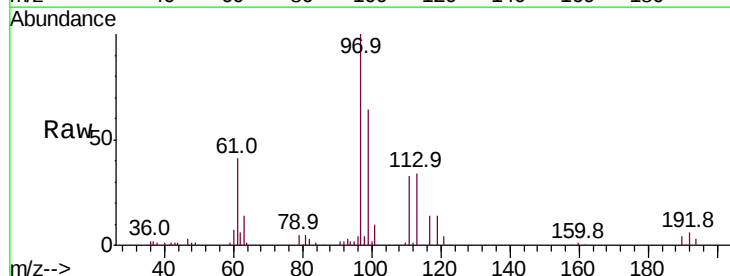
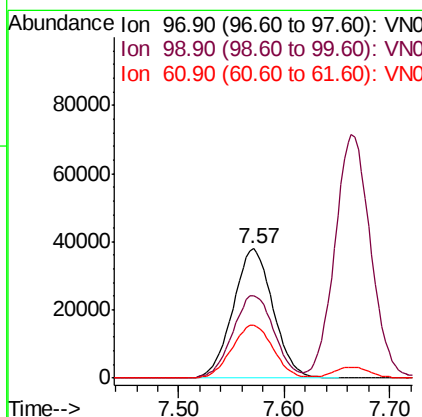
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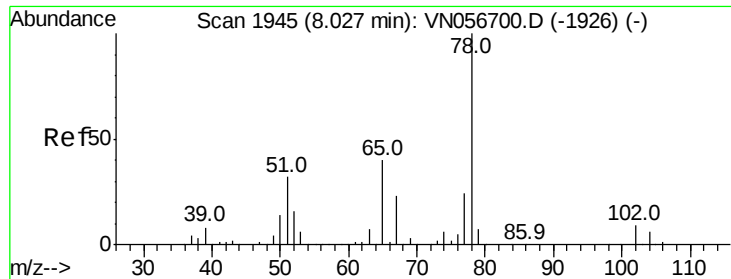
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 21.364 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.8	52.0	78.0
61	42.1	34.3	51.5





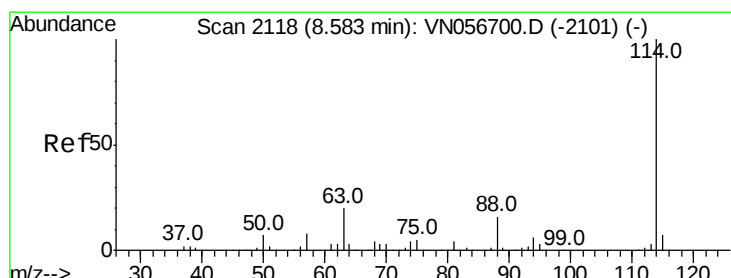
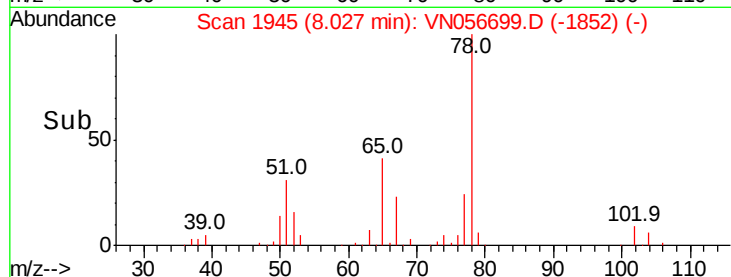
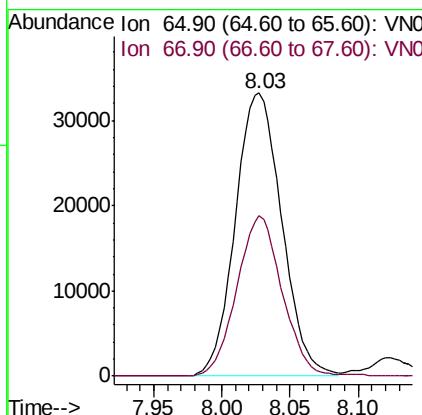
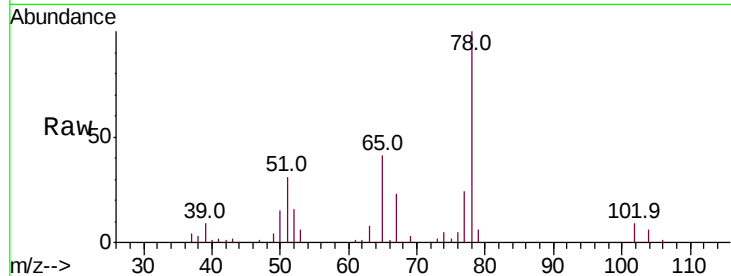
#33
 1,2-Dichloroethane-d4
 Concen: 21.162 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	78513		
67	55.3	0.0	109.0	

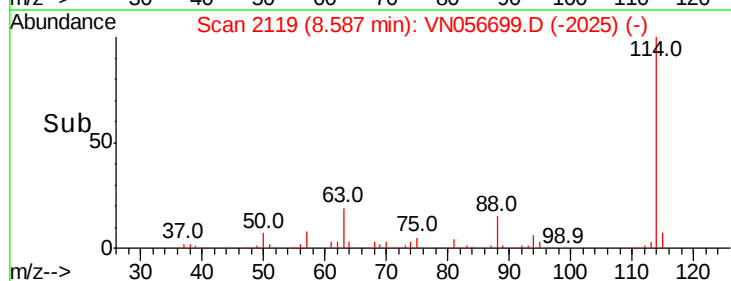
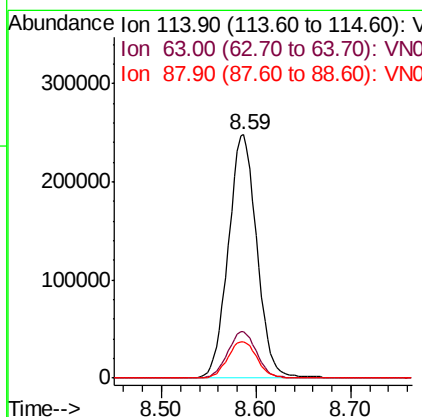
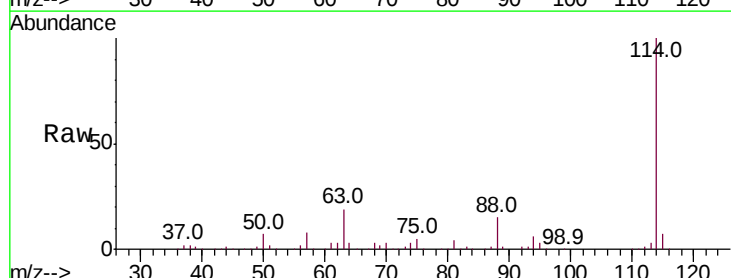
Manual Integrations
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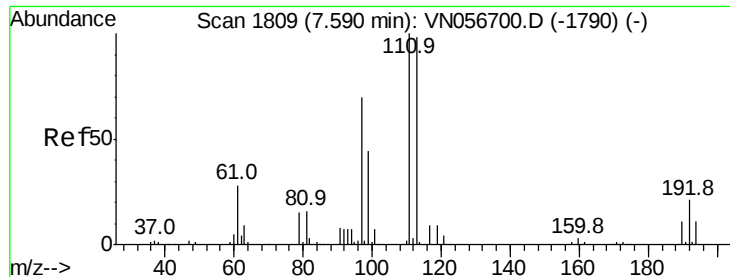
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	520326		
63	19.2	0.0	39.4	
88	15.0	0.0	31.2	





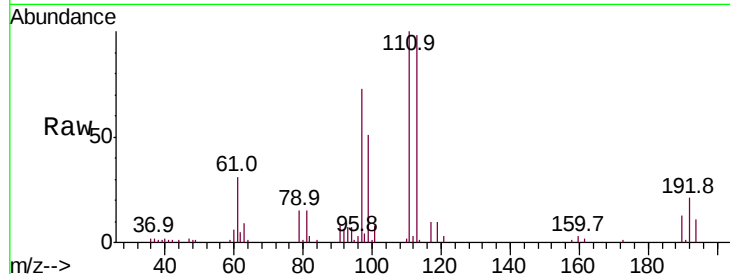
#35
 Dibromofluoromethane
 Concen: 20.980 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.8	122.6
192	21.3	17.5	26.3

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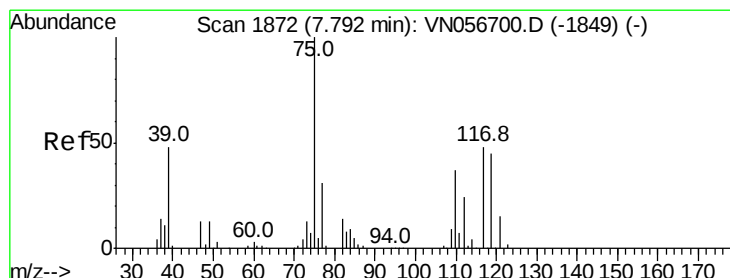
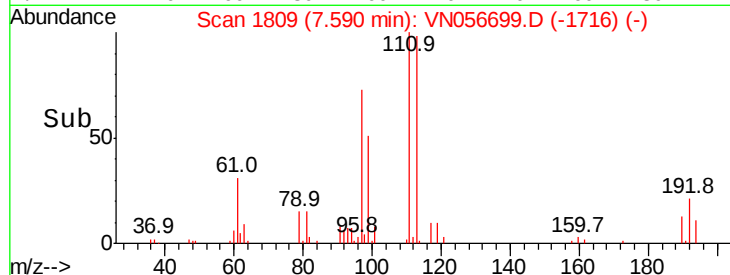
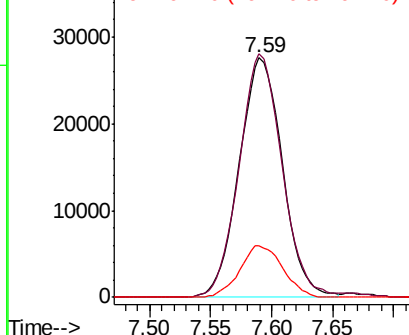


Abundance

Ion 112.80 (112.50 to 113.50): V

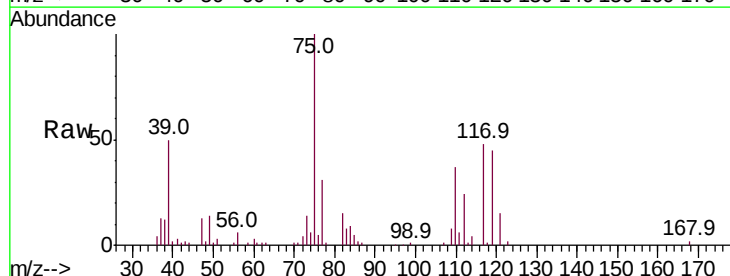
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 19.963 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.3	18.4	55.4
77	30.9	24.6	36.8

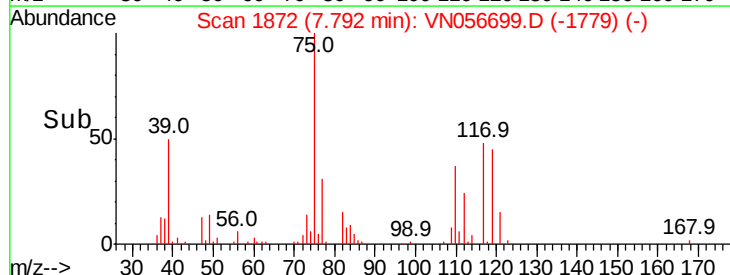
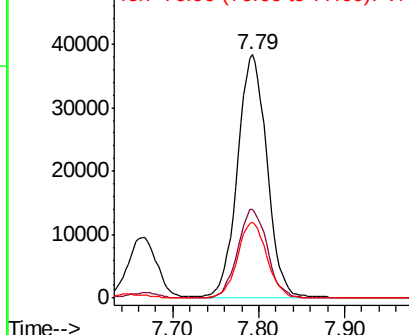


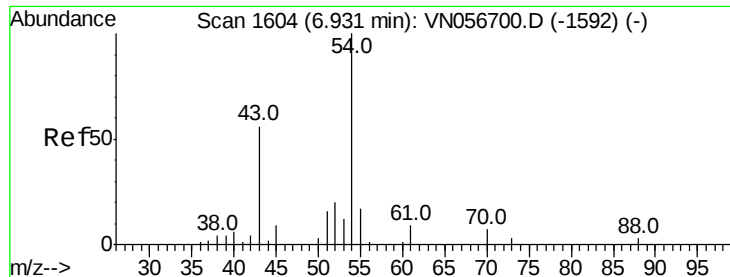
Abundance

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





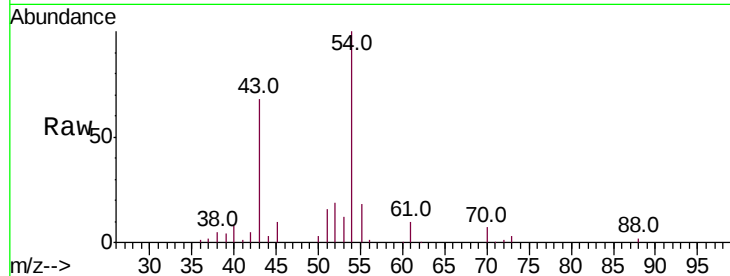
#37
Ethyl Acetate
Concen: 20.345 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	43	61	70
Ratio	100	15.4	10.7
Lower		11.3	8.5
Upper		16.9	12.7

Manual Integrations
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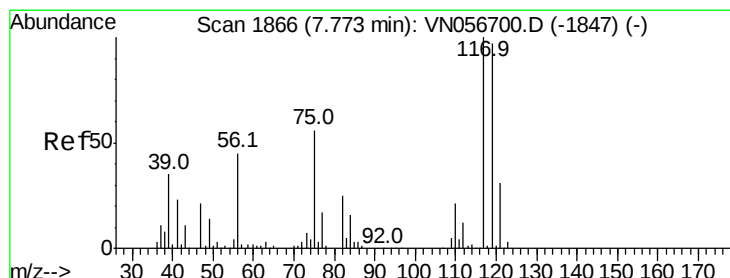
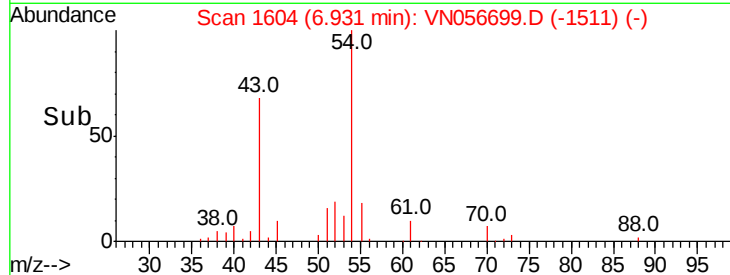
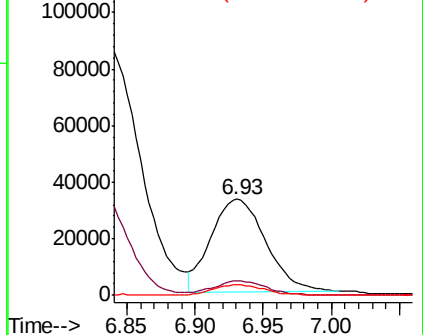


Abundance

Ion 43.00 (42.70 to 43.70): VN056700.D (-1592) (-)

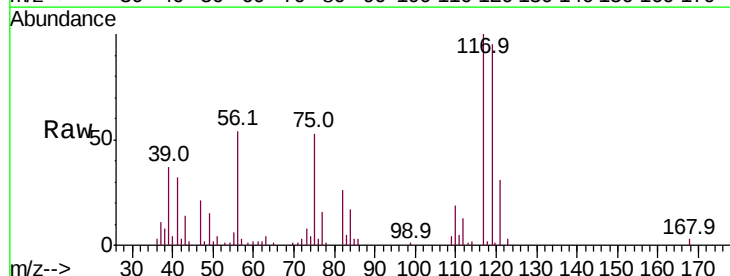
Ion 60.90 (60.60 to 61.60): VN056700.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN056700.D (-1592) (-)



#38
Carbon Tetrachloride
Concen: 21.201 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	117	119	121
Ratio	100	95.2	30.8
Lower		77.5	24.7
Upper		116.3	37.1

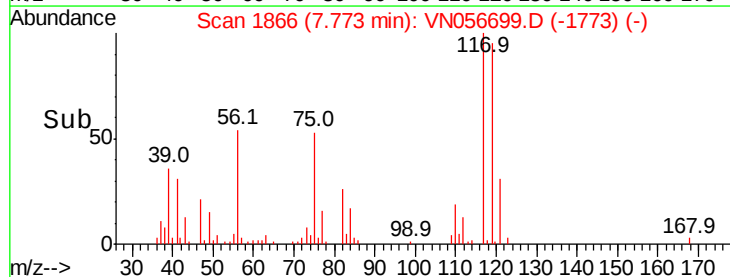
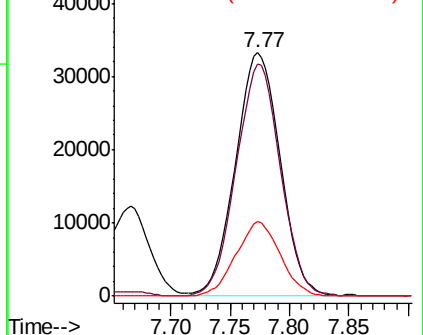


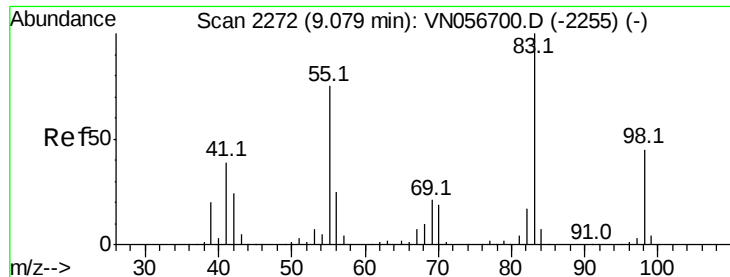
Abundance

Ion 116.80 (116.50 to 117.50): VN056700.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN056700.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN056700.D (-1847) (-)





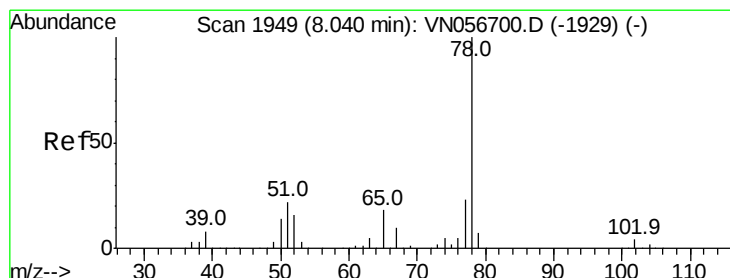
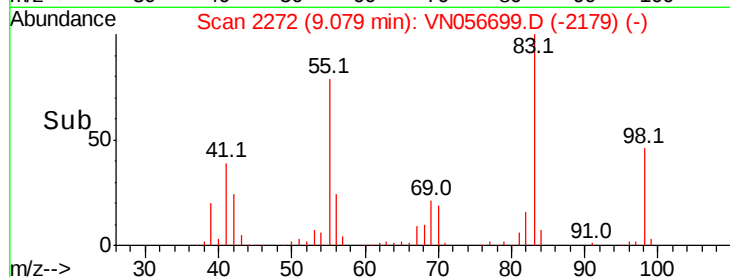
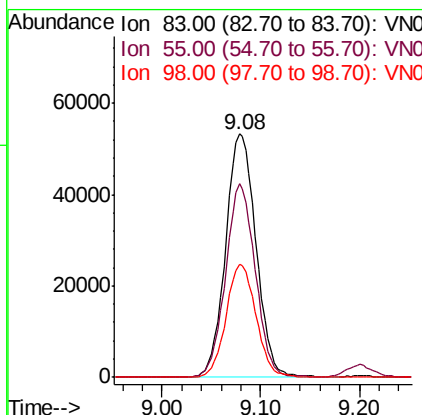
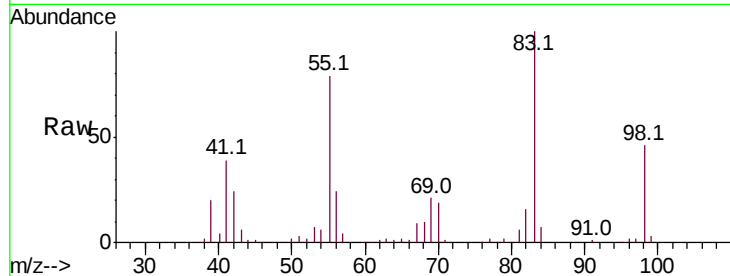
#39
Methylvlcvclohexane
Concen: 20.027 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.3	60.4	90.6
98	46.2	35.8	53.8

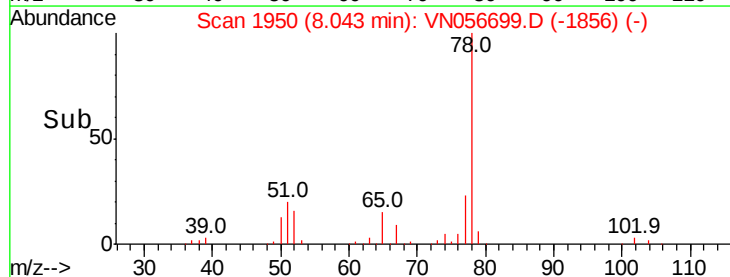
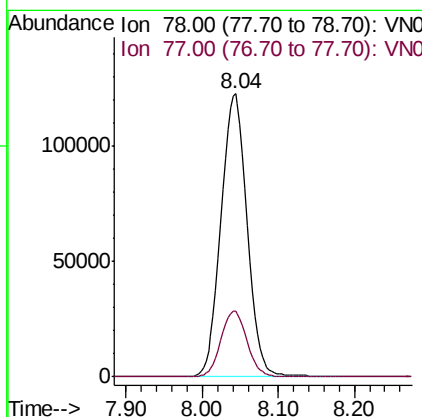
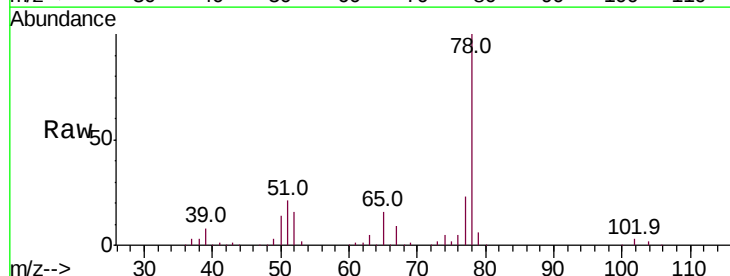
Manual Integrations
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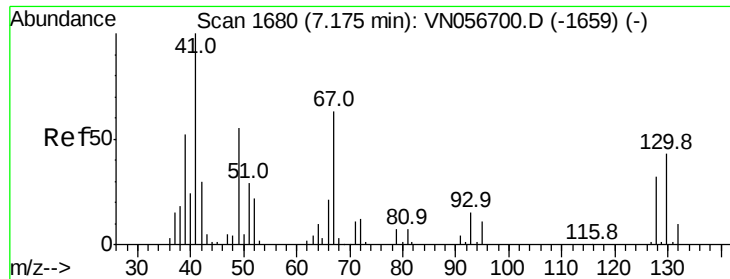
MMDadoda
7/17/2019 1:31:17 AM



#40
Benzene
Concen: 20.726 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.6	27.8





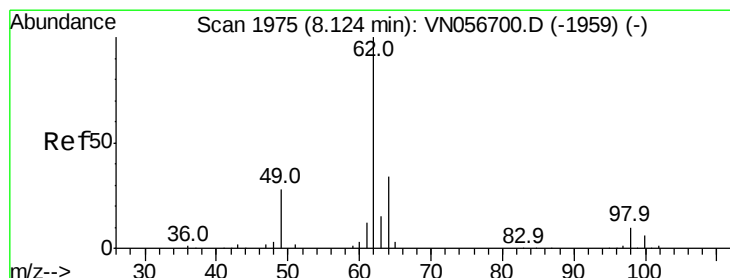
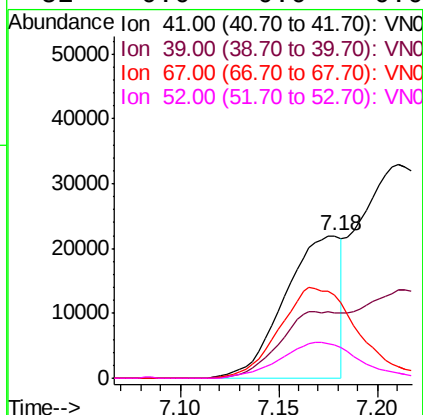
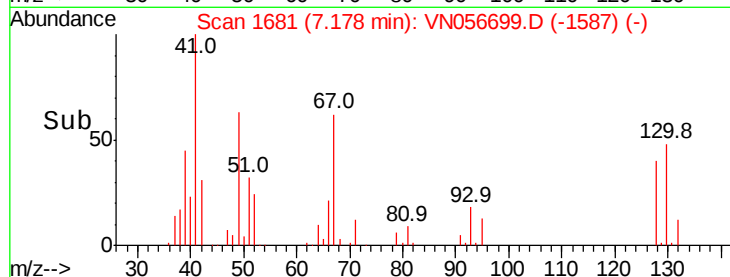
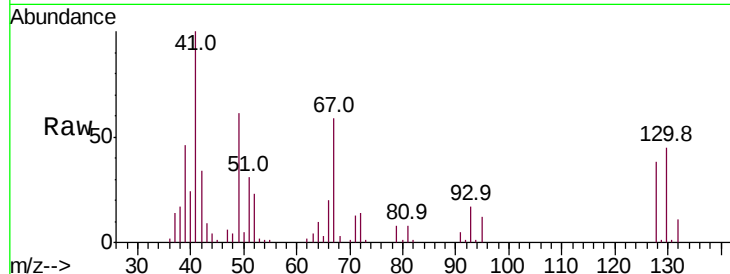
#41
Methacrylonitrile
Concen: 22.087 ug/l m
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	41	Resp	43788
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

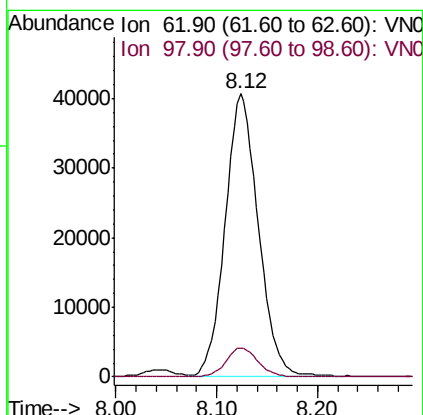
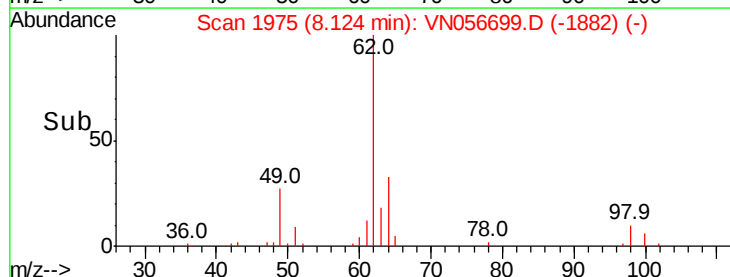
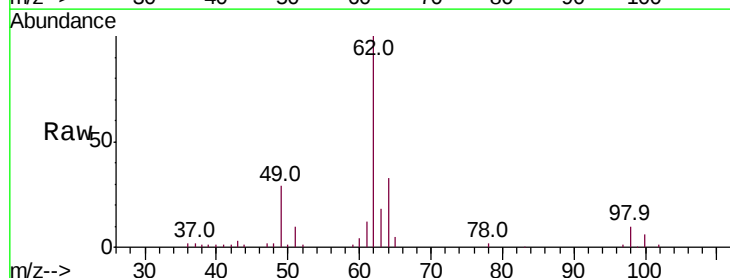
Manual Integrations
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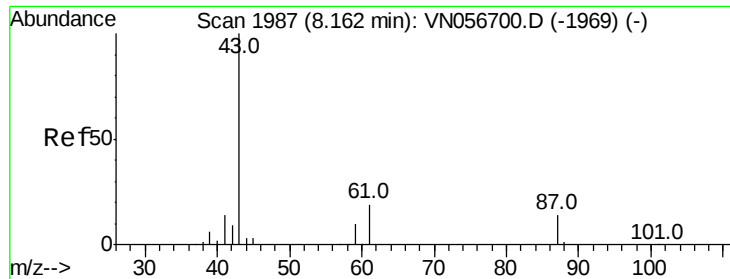
MMDadoda
7/17/2019 1:31:17 AM



#42
1,2-Dichloroethane
Concen: 20.017 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	62	Resp	93276
Ion Ratio	Lower	Upper	
62	100		
98	9.8	0.0	19.8





#43

Isopropyl Acetate

Concen: 21.128 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

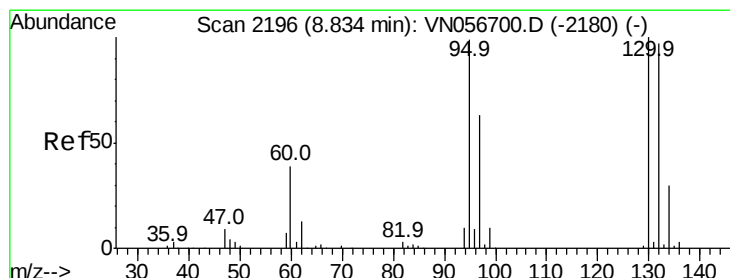
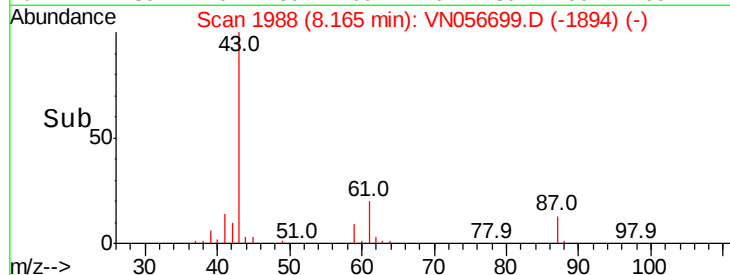
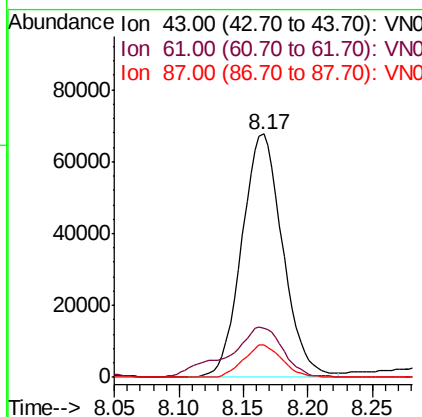
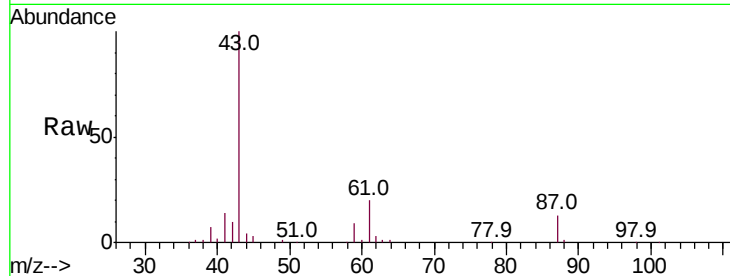
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	148295
Ion Ratio	Lower	Upper	
43	100		
61	28.1	22.3	33.5
87	12.9	11.1	16.7

Manual Integrations
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MMDadoda
7/17/2019 1:31:17 AM



#44

Trichloroethene

Concen: 20.372 ug/l

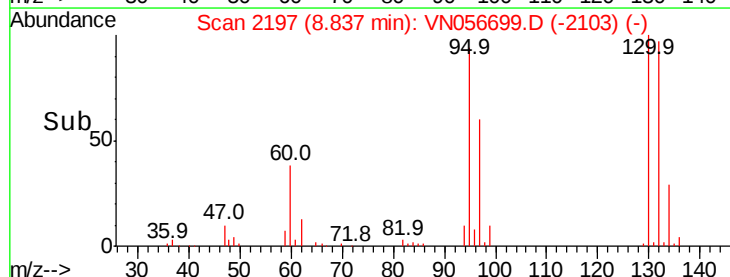
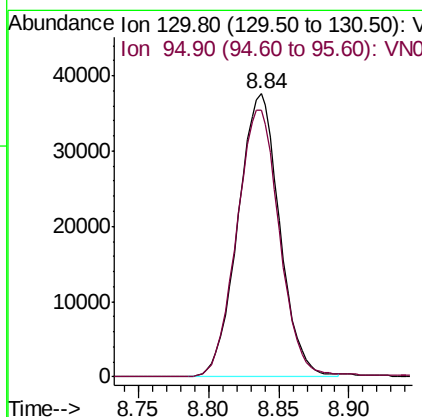
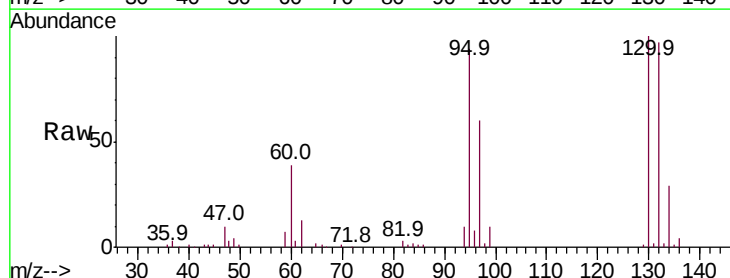
RT: 8.84 min Scan# 2197

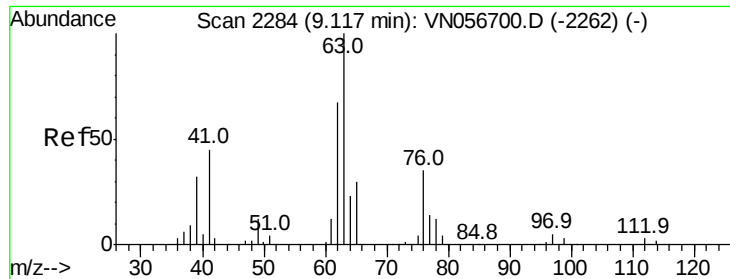
Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Tgt Ion:	130	Resp:	77528
Ion Ratio	Lower	Upper	
130	100		
95	94.1	0.0	197.2





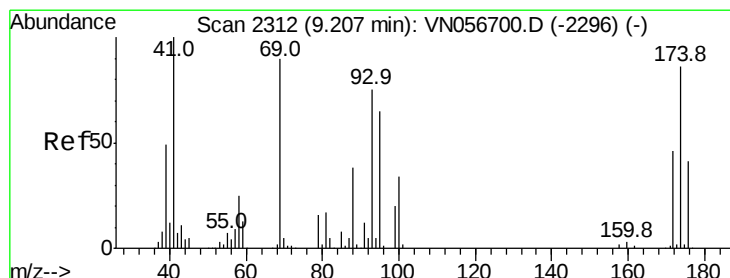
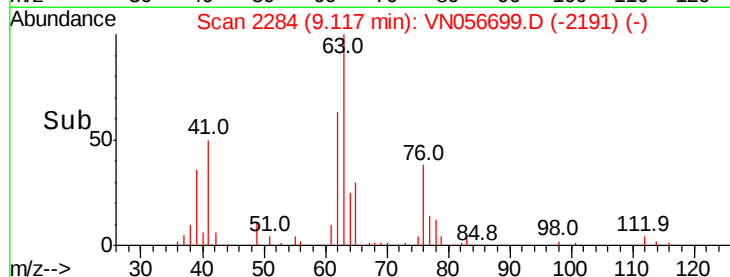
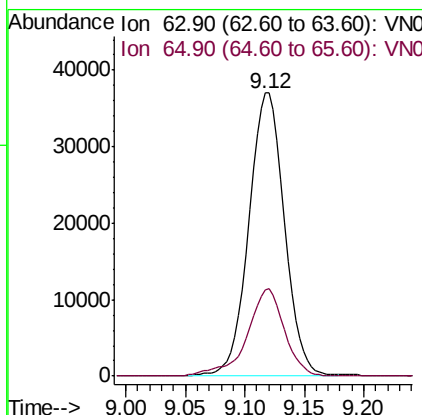
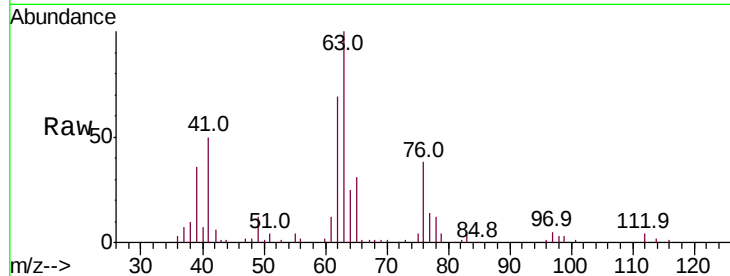
#45
 1,2-Dichloropropane
 Concen: 20.273 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.0	36.0

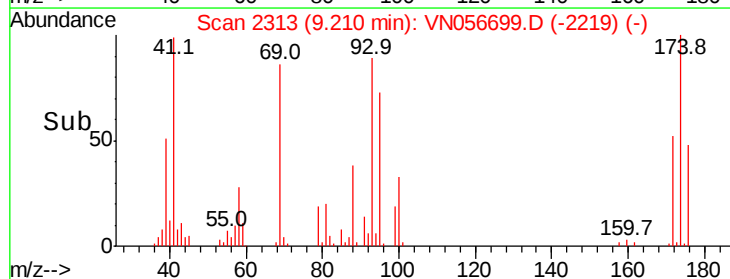
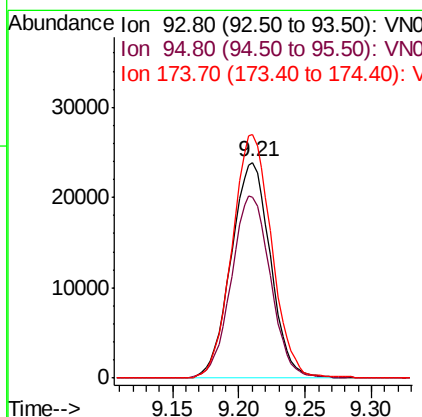
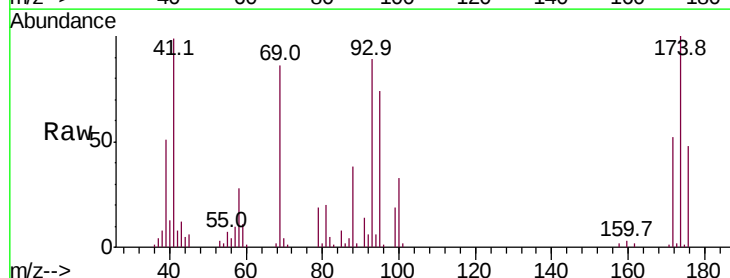
Manual Integrations
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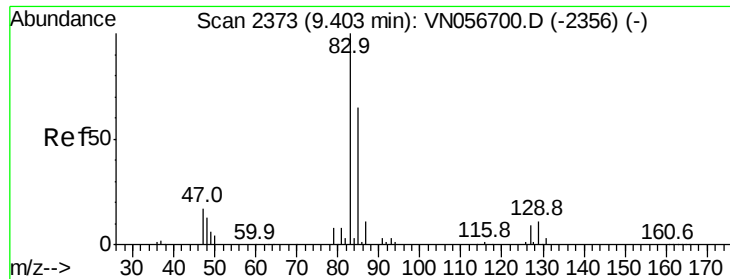
MMDadoda
 7/17/2019 1:31:17 AM



#46
 Dibromomethane
 Concen: 20.776 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.9	67.4	101.0
174	113.2	90.3	135.5





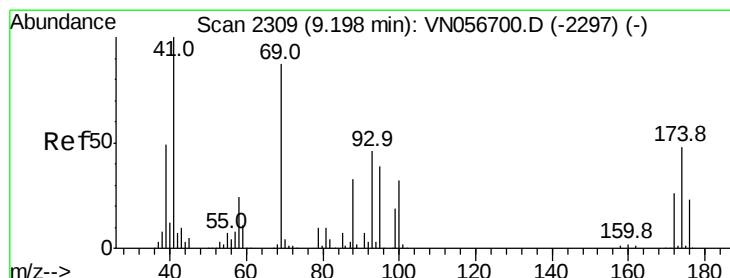
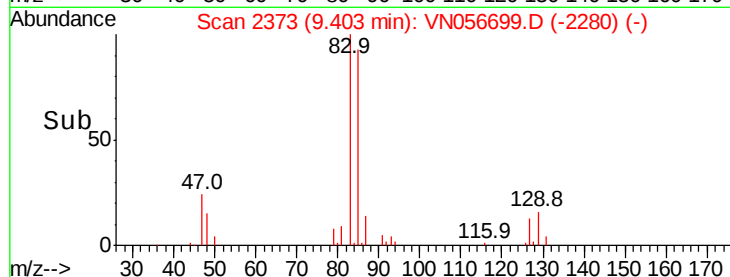
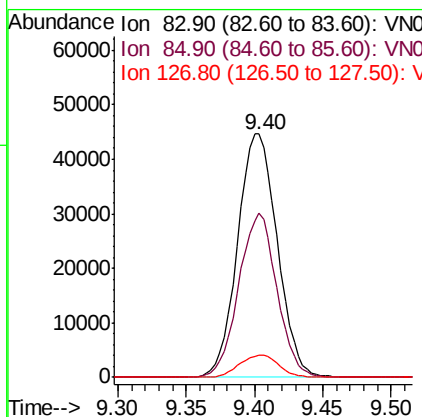
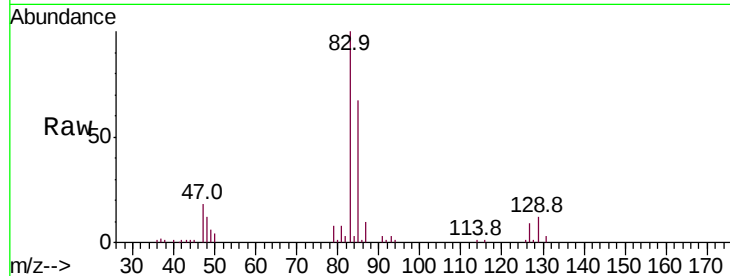
#47
Bromodichloromethane
Concen: 21.272 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	90168
Ion Ratio	100	Lower	Upper
83	100		
85	67.3	52.3	78.5
127	9.2	7.6	11.4

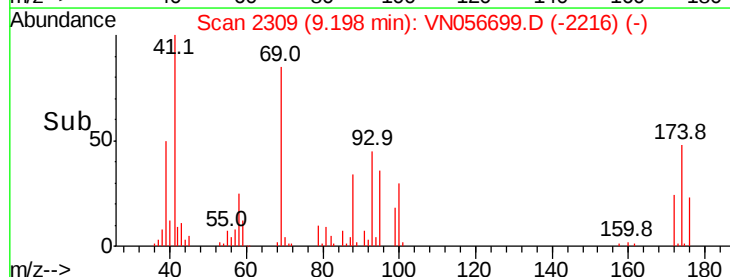
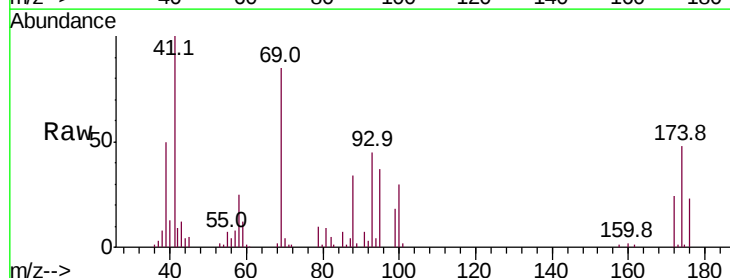
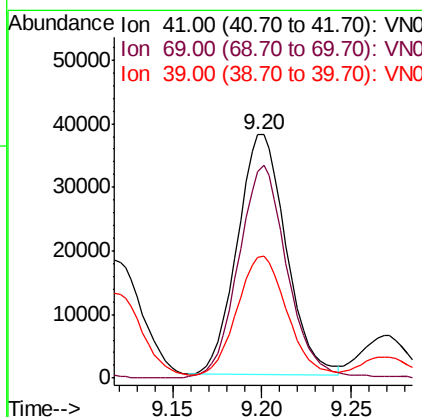
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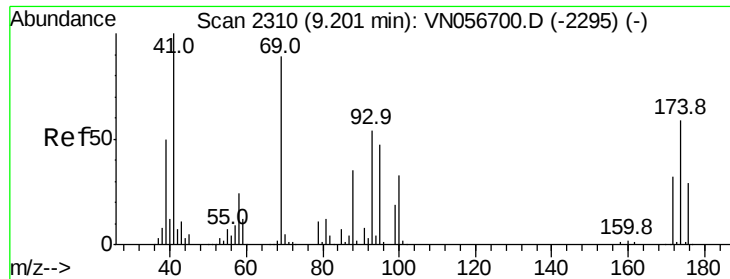
MMDadoda
7/17/2019 1:31:17 AM



#48
Methyl methacrylate
Concen: 20.483 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	41	Resp	72173
Ion Ratio	100	Lower	Upper
41	100		
69	88.5	71.4	107.0
39	52.4	41.2	61.8





#49

1,4-Dioxane

Concen: 404.550 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 88 Resp: 29351

Ion Ratio Lower Upper

88 100

43 29.1 23.7 35.5

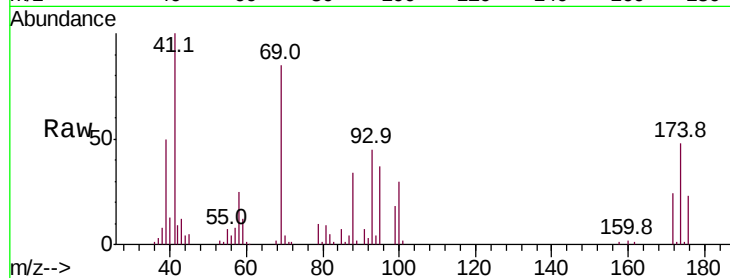
58 70.5 55.6 83.4

Manual Integrations

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MMDadoda

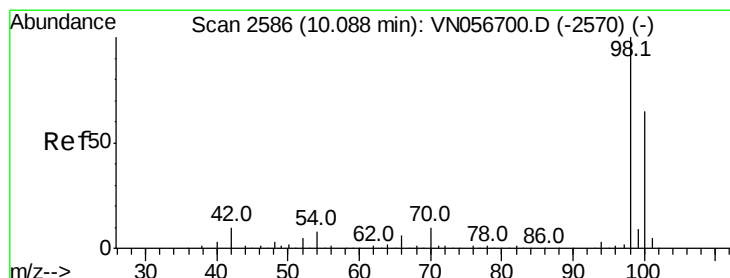
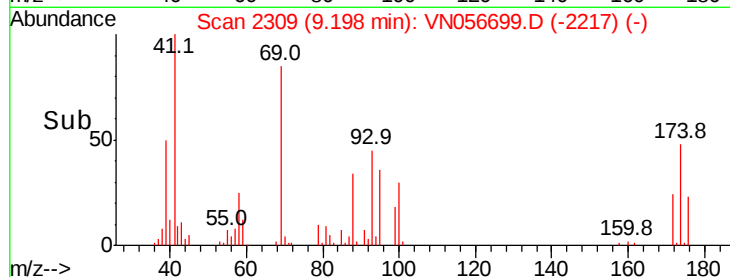
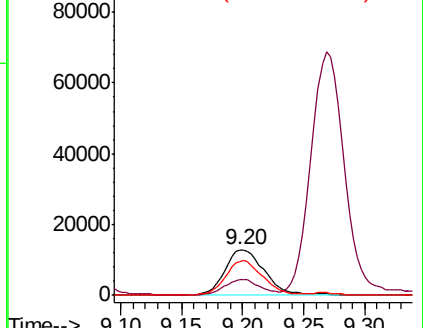
7/17/2019 1:31:17 AM



Abundance Ion 88.00 (87.70 to 88.70): VN056699.D (-2217) (-)

Ion 43.00 (42.70 to 43.70): VN056699.D (-2217) (-)

Ion 58.00 (57.70 to 58.70): VN056699.D (-2217) (-)



#50

Toluene-d8

Concen: 20.472 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056699.D

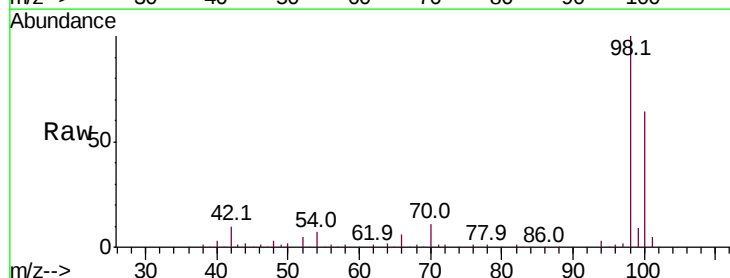
Acq: 15 Jul 2019 9:33

Tgt Ion: 98 Resp: 257464

Ion Ratio Lower Upper

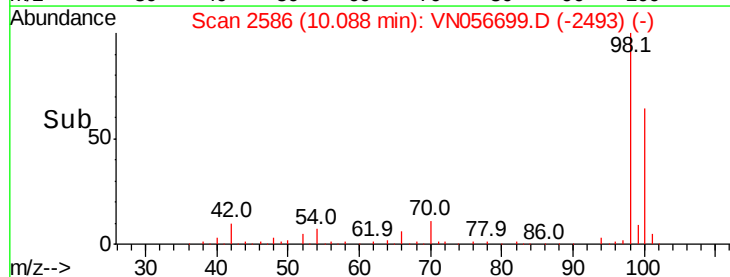
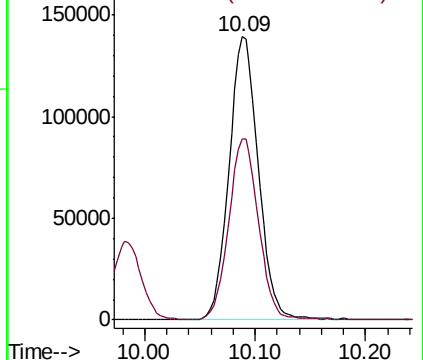
98 100

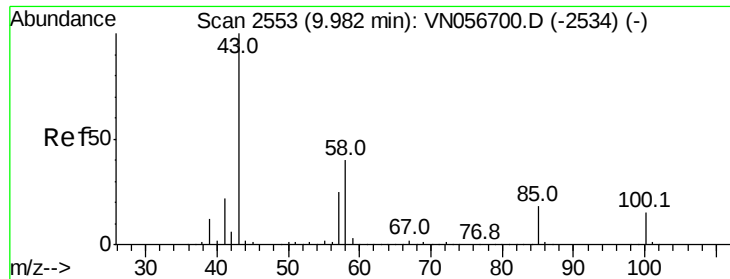
100 64.5 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056699.D (-2493) (-)

Ion 100.00 (99.70 to 100.70): VN056699.D (-2493) (-)





#51

4-Methyl-2-Pentanone

Concen: 107.567 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 487518

Ion Ratio Lower Upper

43 100

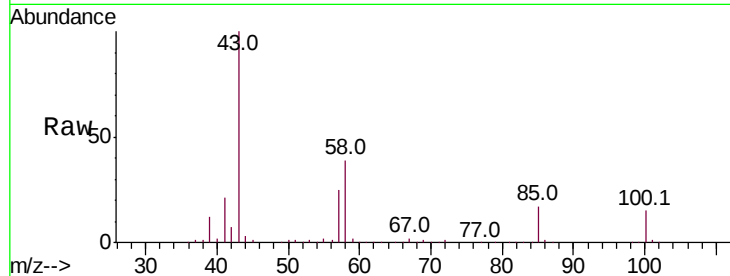
58 39.0 32.0 48.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

250000

200000

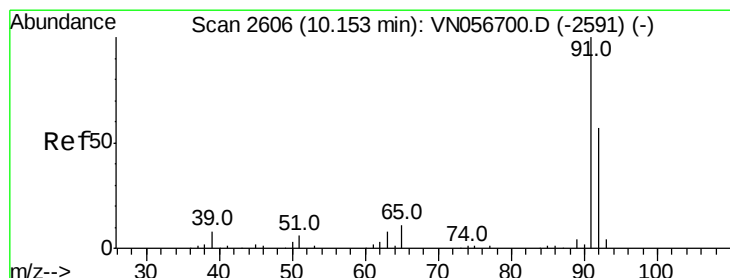
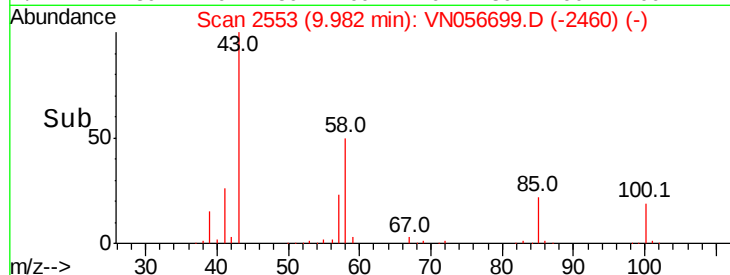
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 20.174 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056699.D

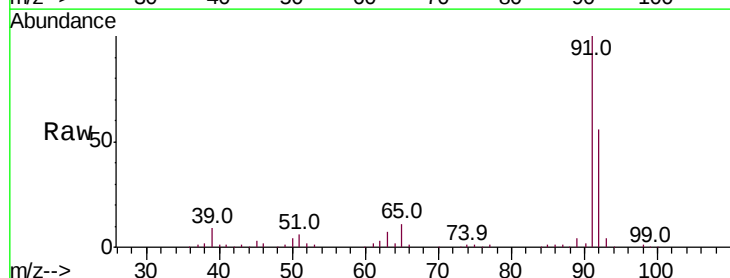
Acq: 15 Jul 2019 9:33

Tgt Ion: 92 Resp: 174779

Ion Ratio Lower Upper

92 100

91 176.3 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.16

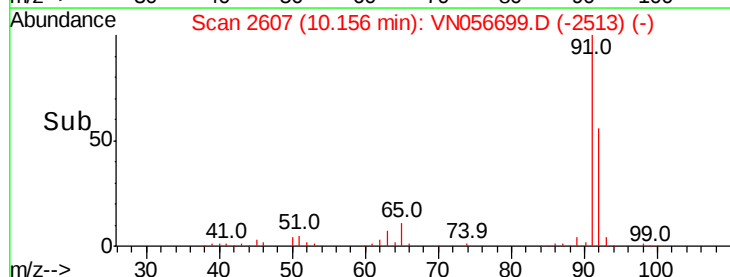
150000

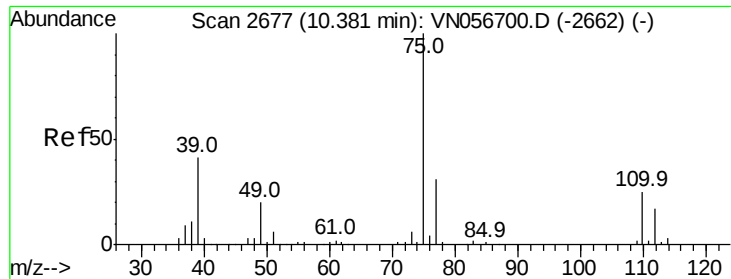
100000

50000

0

Time-->





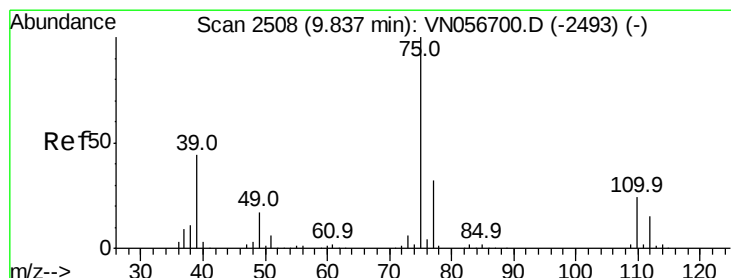
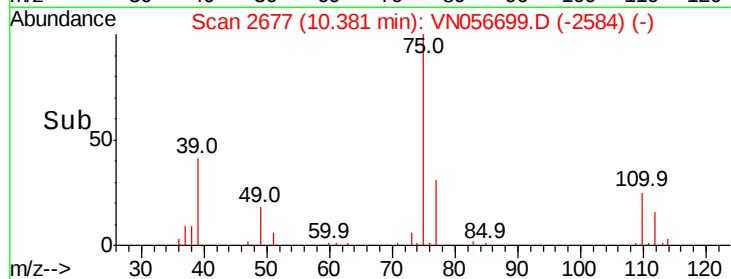
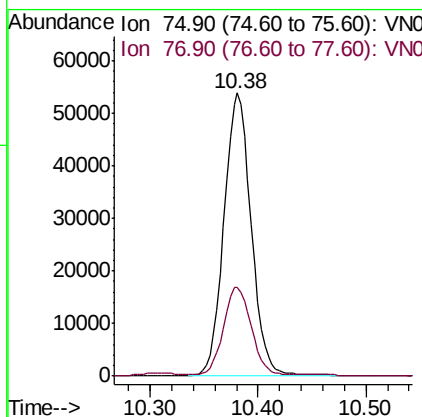
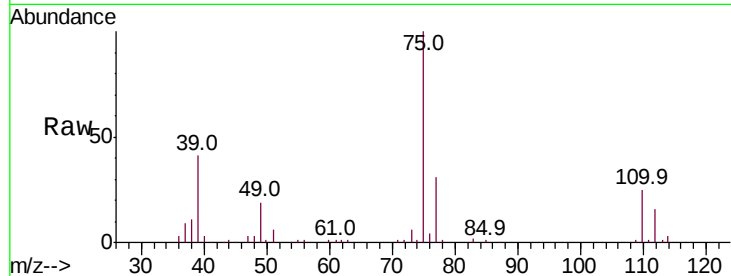
#53
 t-1,3-Dichloropropene
 Concen: 22.100 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 75 Resp: 94796
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.0 37.6

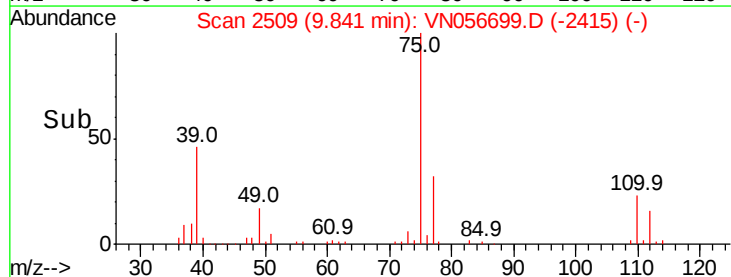
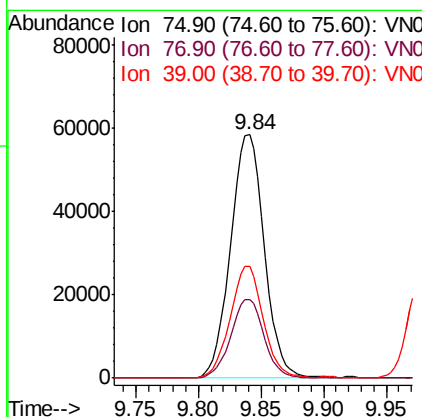
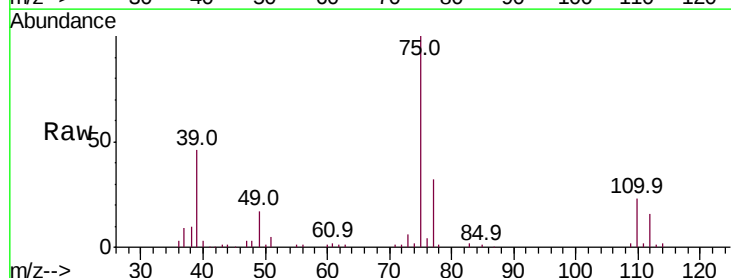
Manual Integrations
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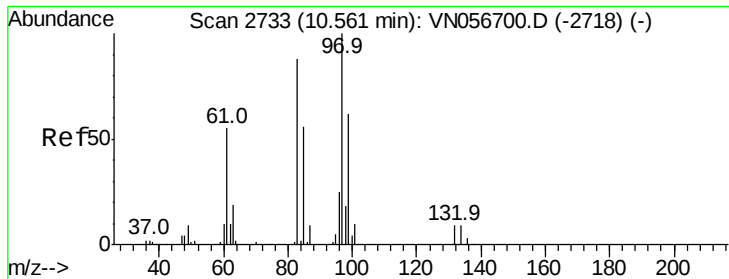
MMDadoda
 7/17/2019 1:31:17 AM



#54
 cis-1,3-Dichloropropene
 Concen: 21.498 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion: 75 Resp: 109449
 Ion Ratio Lower Upper
 75 100
 77 32.5 26.0 39.0
 39 45.7 35.1 52.7





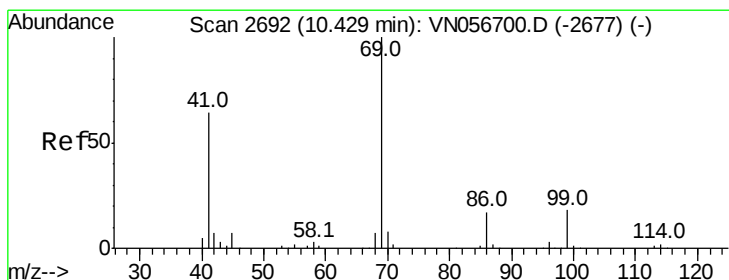
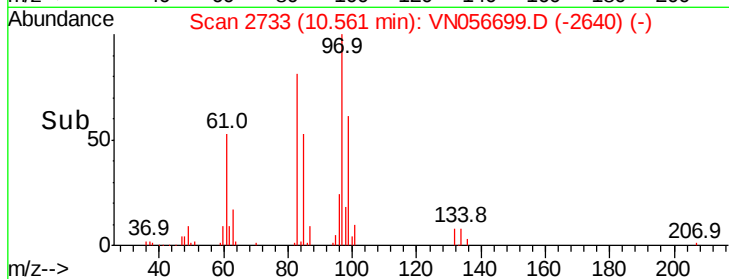
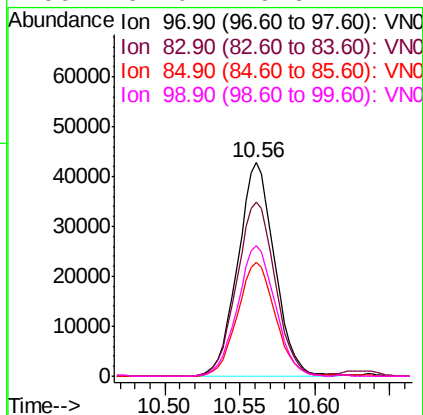
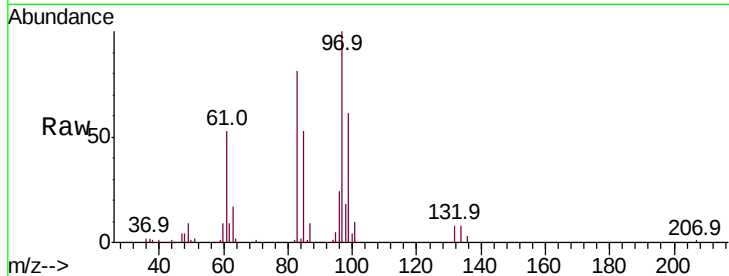
#55
 1,1,2-Trichloroethane
 Concen: 21.081 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	73307
Ion	Ratio	Lower	Upper
97	100		
83	81.5	70.3	105.5
85	53.2	44.8	67.2
99	61.0	49.6	74.4

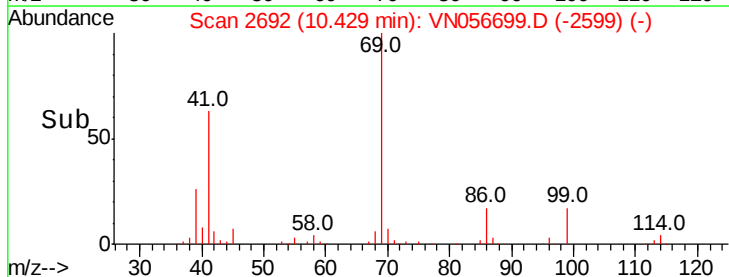
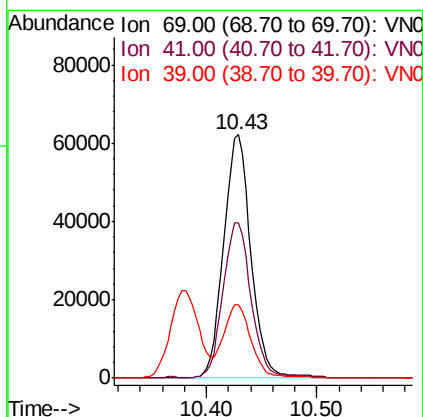
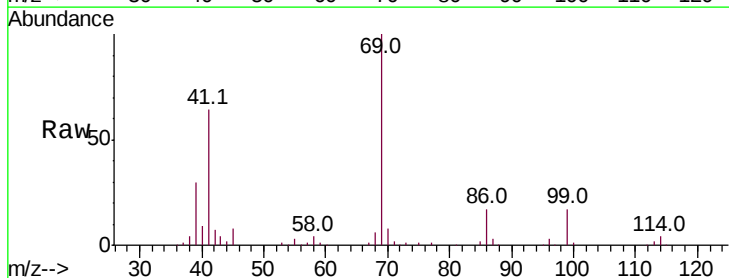
Manual Integrations
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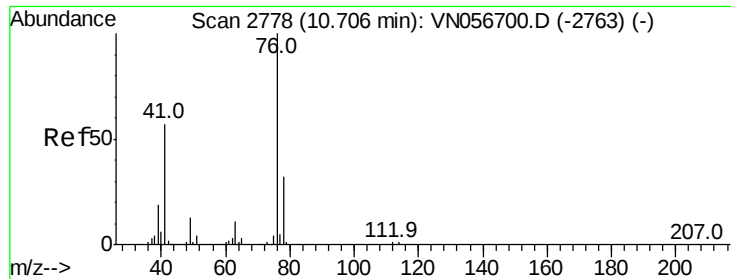
MMDadoda
 7/17/2019 1:31:17 AM



#56
 Ethyl methacrylate
 Concen: 20.926 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion:	69	Resp:	107122
Ion	Ratio	Lower	Upper
69	100		
41	64.5	51.0	76.4
39	29.7	24.6	36.8





#57

1,3-Dichloropropane

Concen: 20.746 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 121075

Ion Ratio Lower Upper

76 100

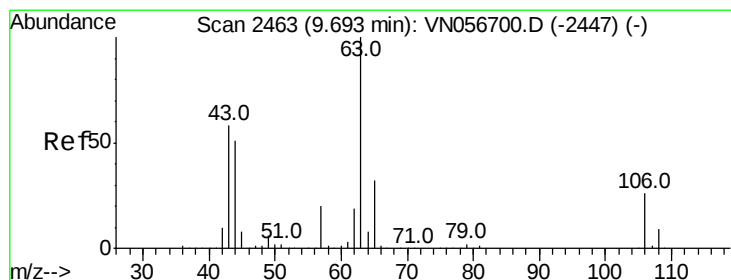
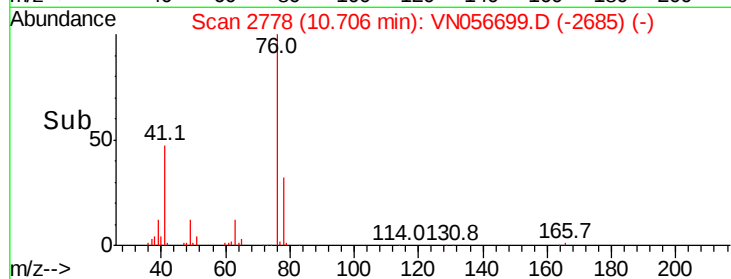
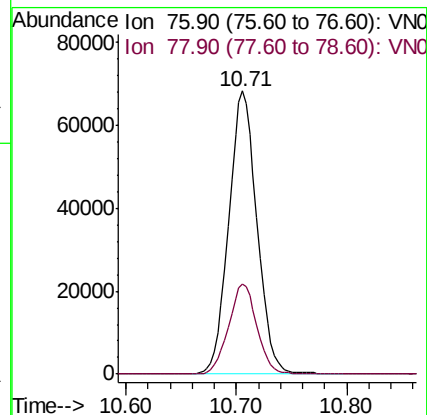
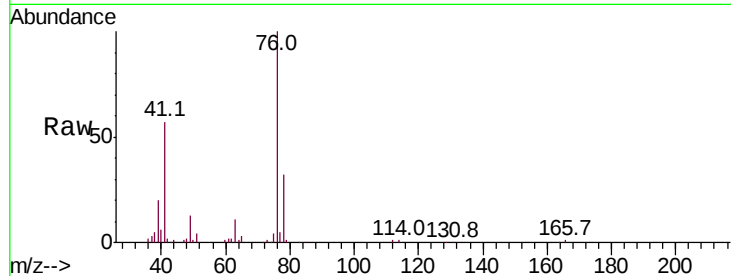
78 31.8 26.0 39.0

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 129.735 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN056699.D

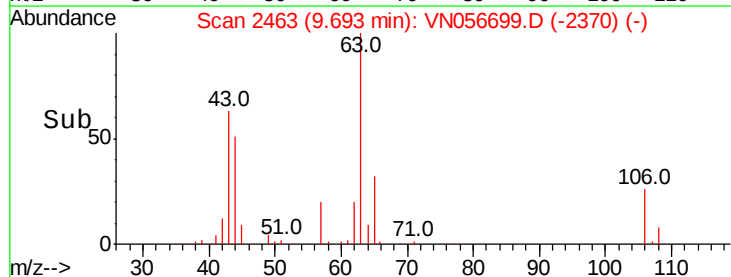
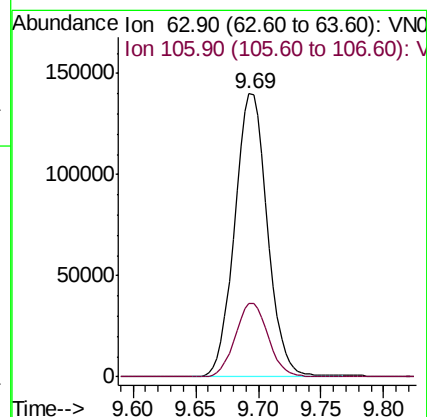
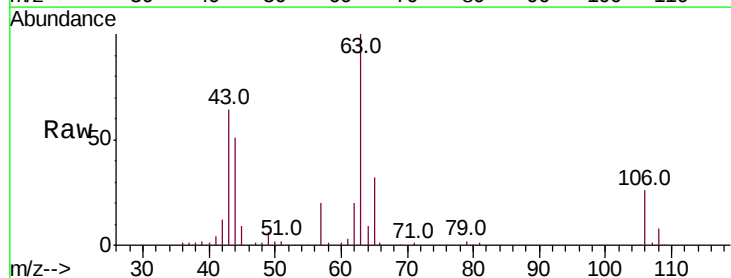
Acq: 15 Jul 2019 9:33

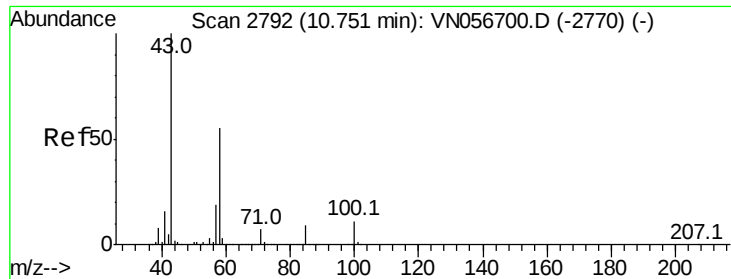
Tgt Ion: 63 Resp: 254353

Ion Ratio Lower Upper

63 100

106 26.3 21.2 31.8





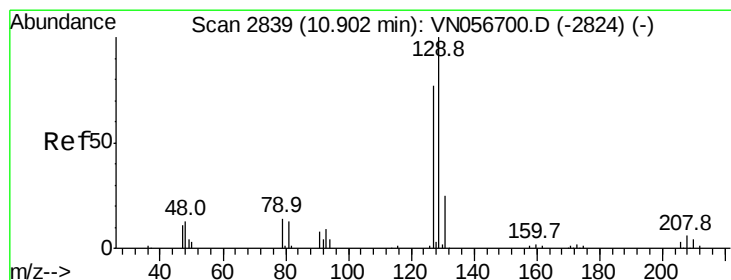
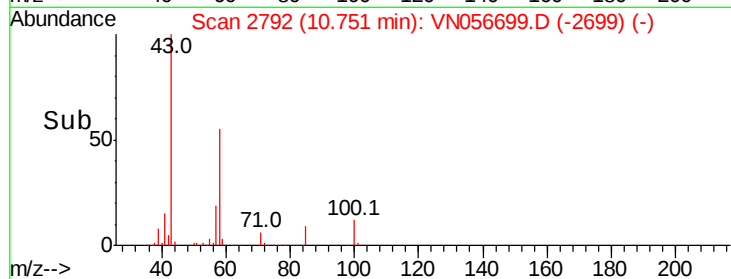
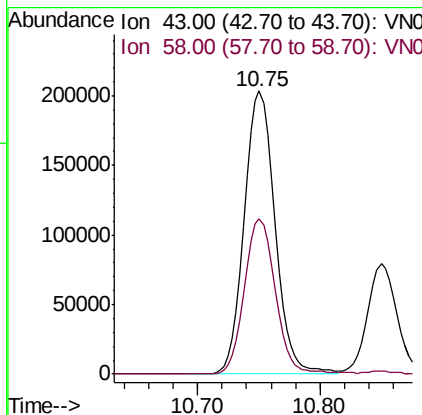
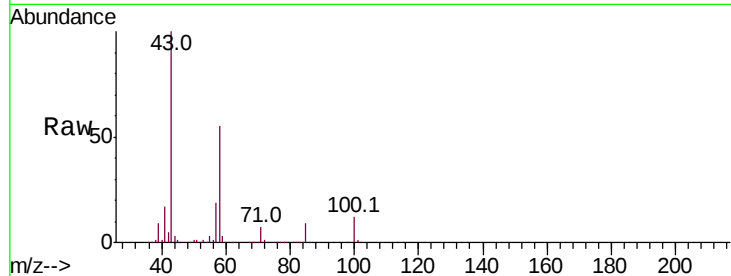
#59
2-Hexanone
Concen: 105.735 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	43	58	Ratio	100	55.3	Resp	353388	Lower	27.9	Upper	83.6
Ion	43	58	Ratio	100	55.3	Resp	353388	Lower	27.9	Upper	83.6

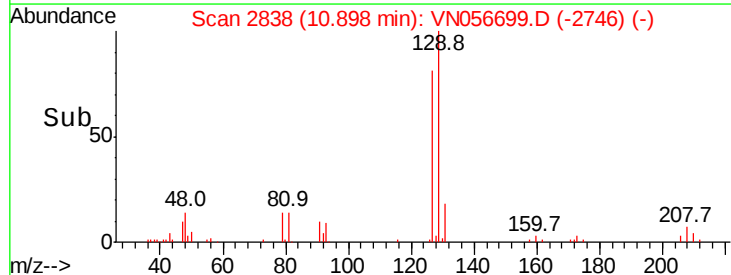
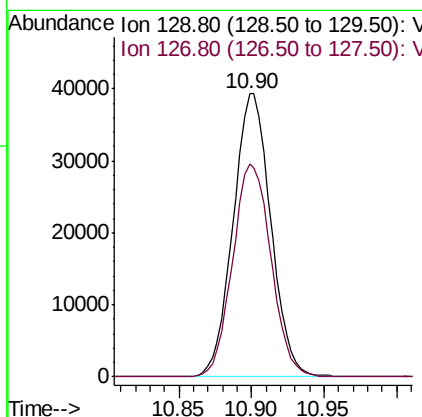
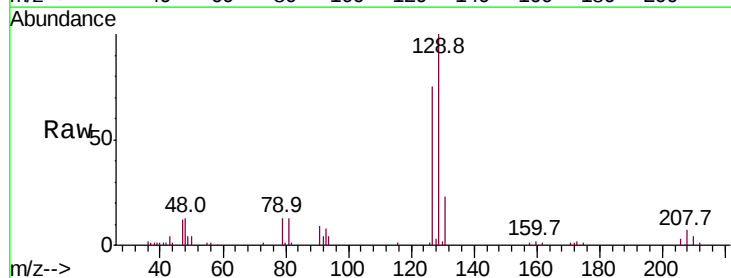
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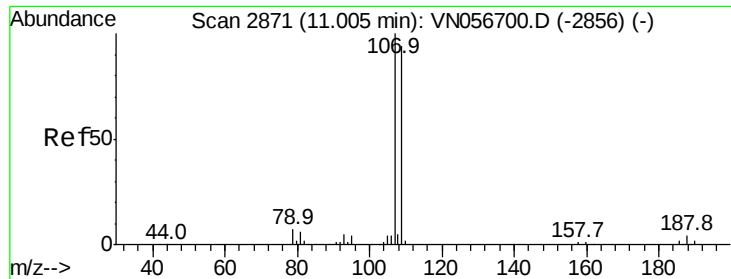
MMDadoda
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#60
Dibromochloromethane
Concen: 22.221 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	129	127	Ratio	100	76.5	Resp	71134	Lower	38.2	Upper	114.6
Ion	129	127	Ratio	100	76.5	Resp	71134	Lower	38.2	Upper	114.6





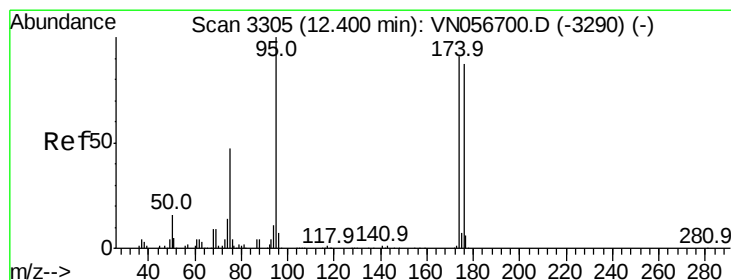
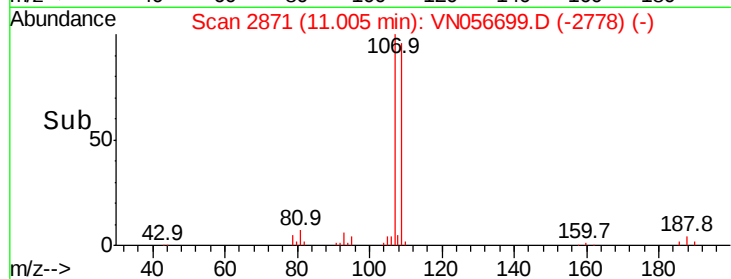
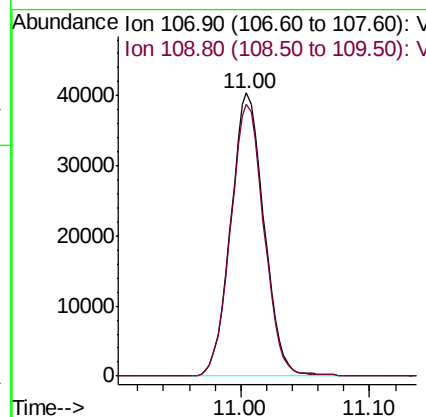
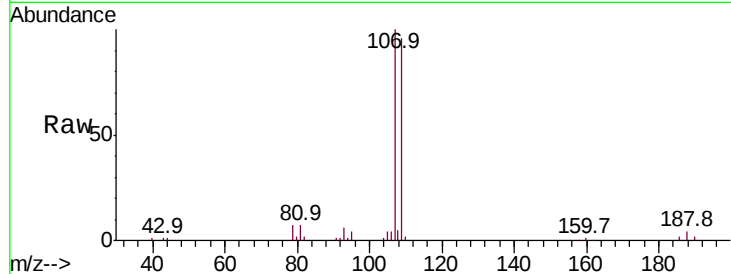
#61
 1,2-Dibromoethane
 Concen: 20.340 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:107 Resp: 72234
 Ion Ratio Lower Upper
 107 100
 109 96.5 76.2 114.4

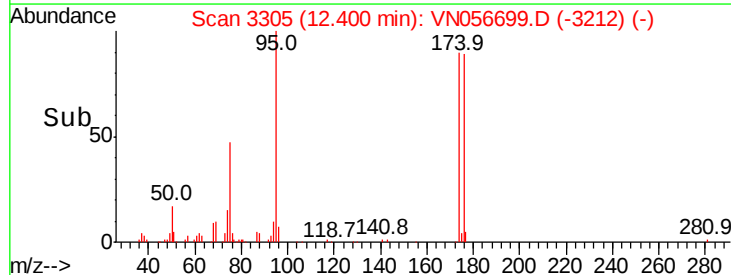
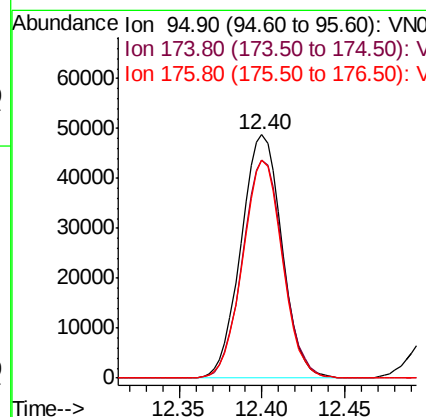
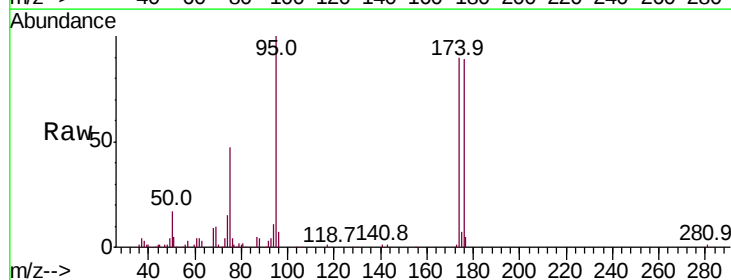
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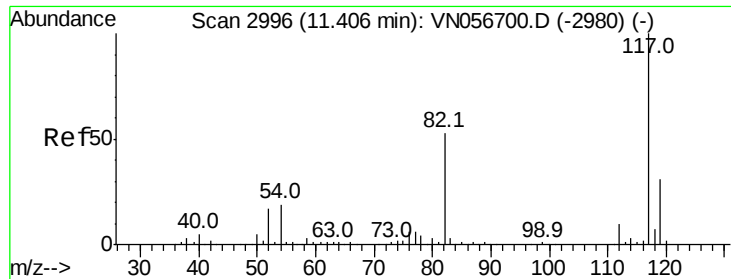
MMDadoda
 7/17/2019 1:31:17 AM



#62
 4-Bromofluorobenzene
 Concen: 19.916 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion: 95 Resp: 83652
 Ion Ratio Lower Upper
 95 100
 174 88.9 0.0 180.0
 176 86.9 0.0 173.2





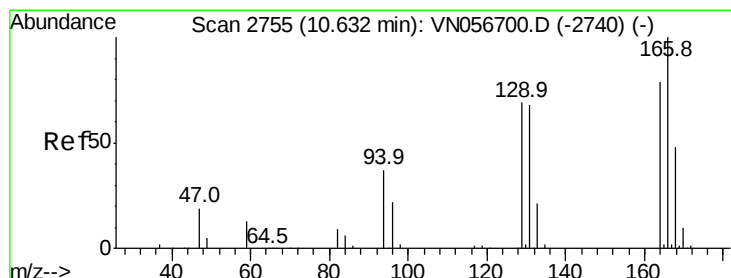
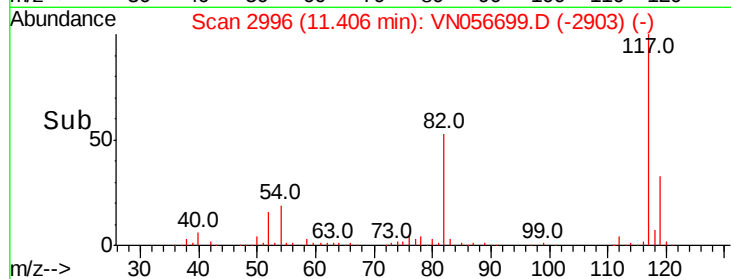
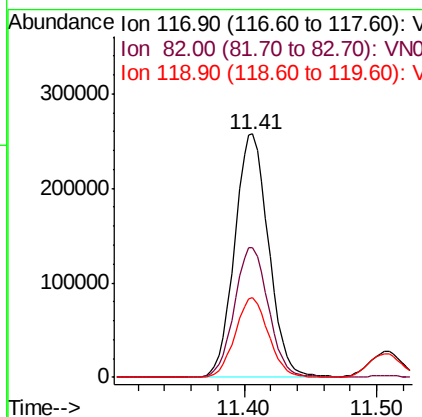
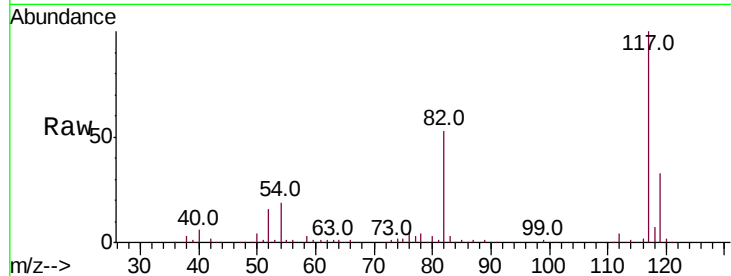
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.2	63.2
119	32.7	25.2	37.8

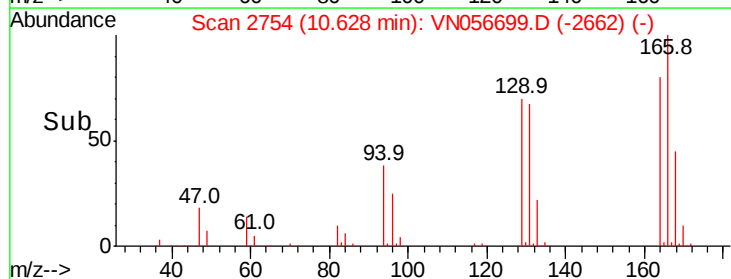
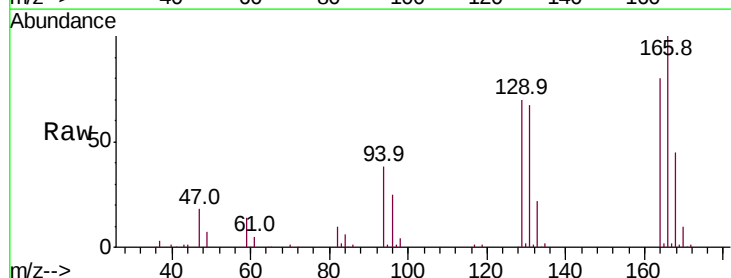
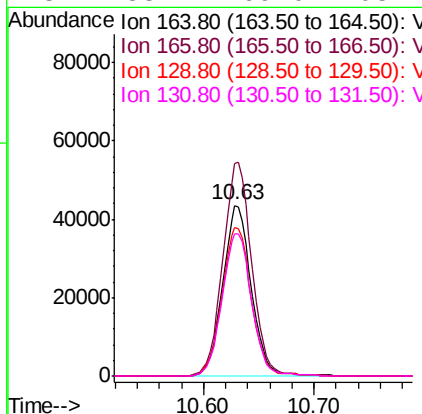
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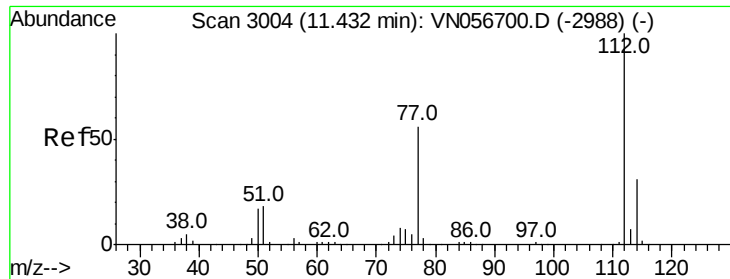
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#64
Tetrachloroethene
Concen: 21.337 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.4	101.4	152.2
129	87.2	69.6	104.4
131	83.7	69.0	103.4





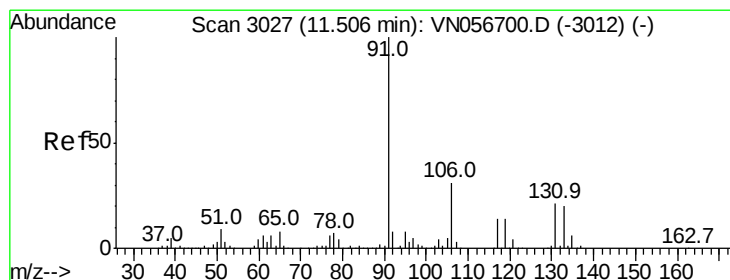
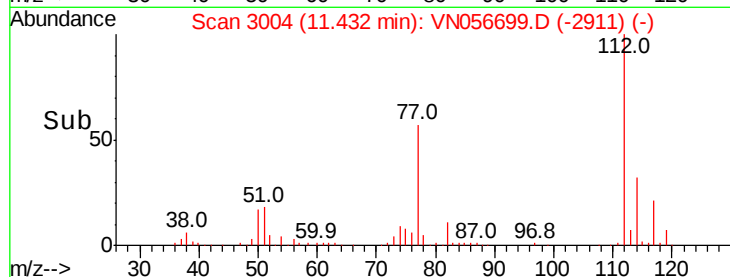
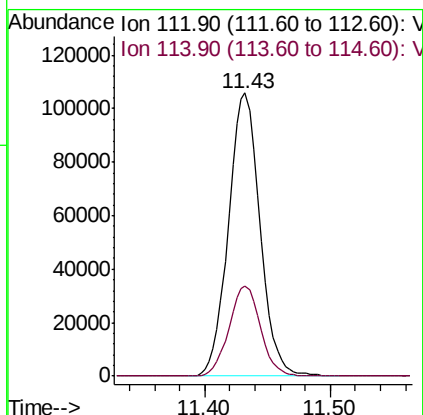
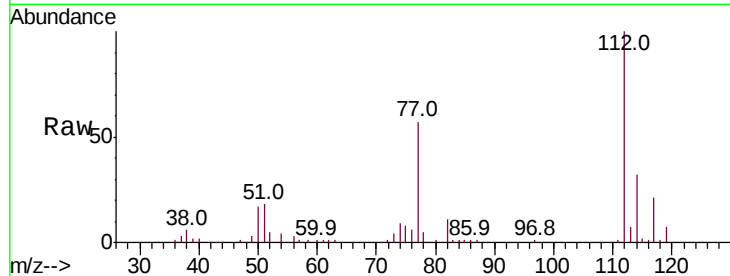
#65
Chlorobenzene
Concen: 20.062 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 184499
Ion Ratio Lower Upper
112 100
114 31.8 25.2 37.8

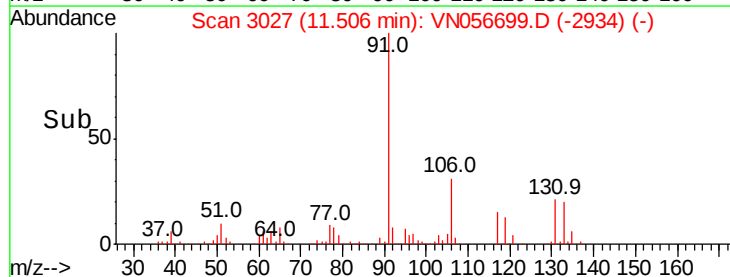
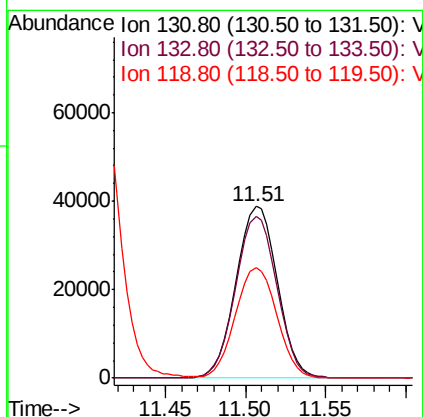
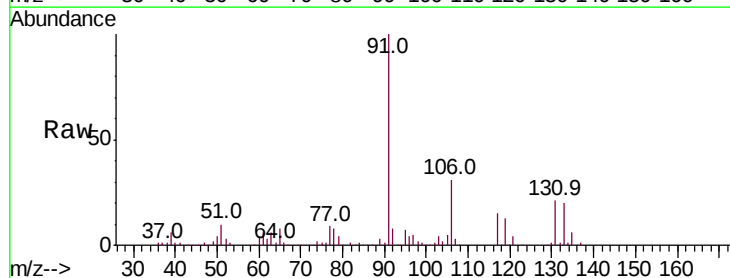
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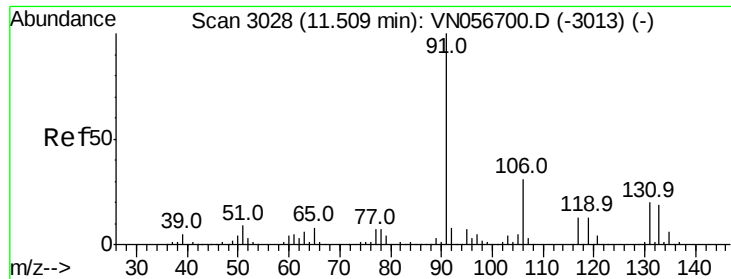
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.768 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion:131 Resp: 68359
Ion Ratio Lower Upper
131 100
133 94.6 46.9 140.7
119 64.9 32.8 98.3





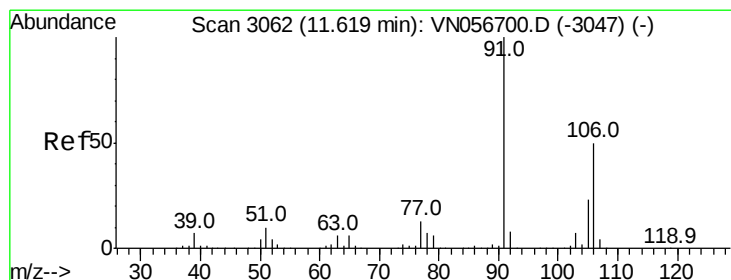
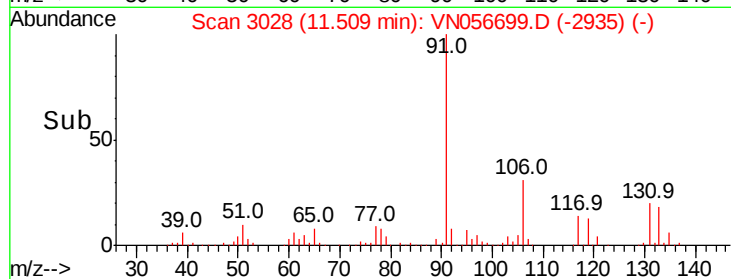
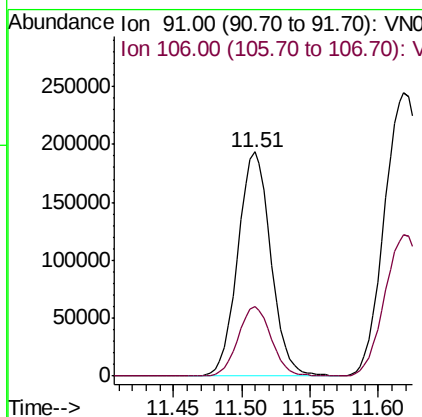
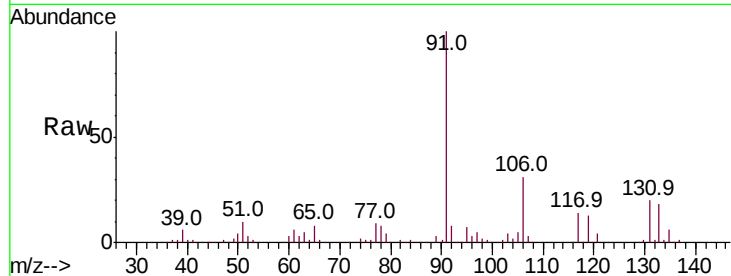
#67
Ethyl Benzene
Concen: 20.092 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 91 Resp: 325179
Ion Ratio Lower Upper
91 100
106 31.0 24.8 37.2

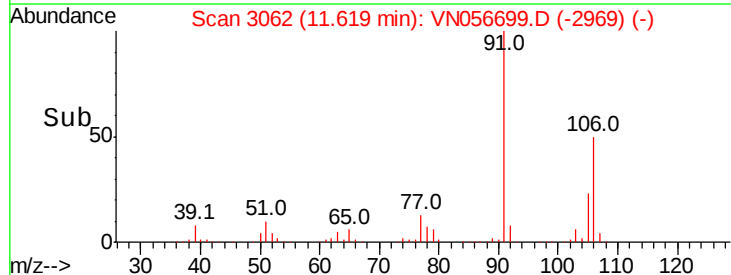
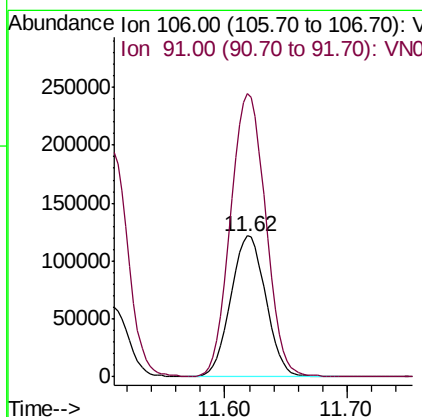
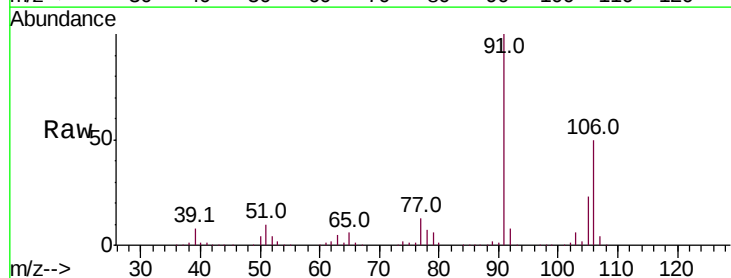
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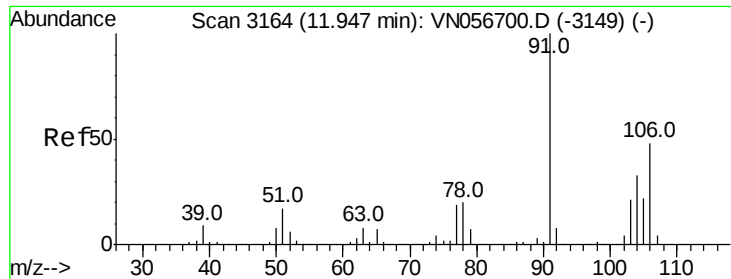
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#68
m/p-Xylenes
Concen: 40.968 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion: 106 Resp: 243157
Ion Ratio Lower Upper
106 100
91 201.8 160.5 240.7





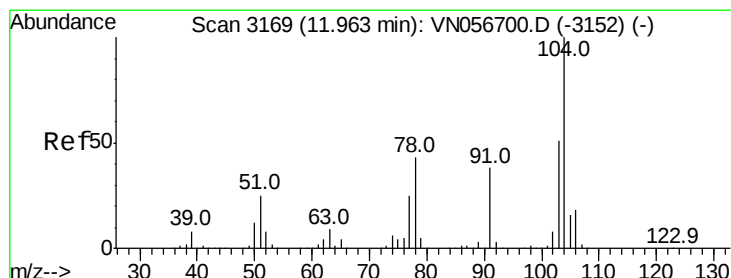
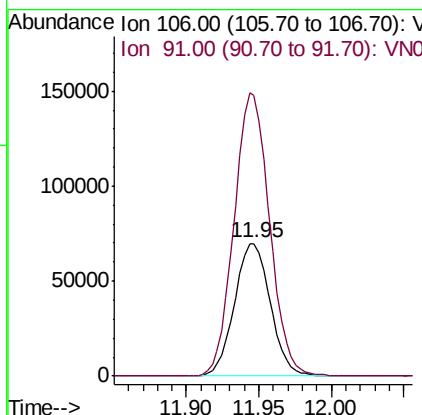
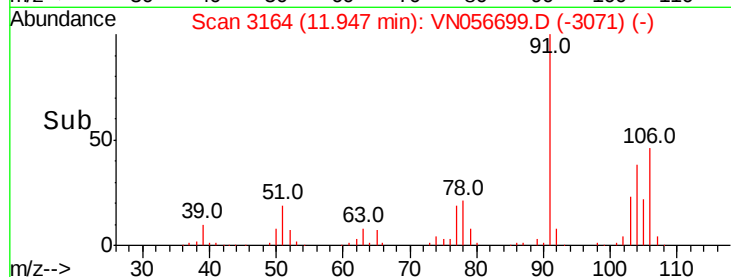
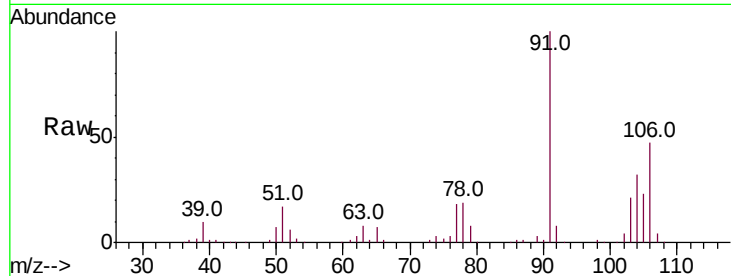
#69
o-Xylene
Concen: 20.472 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 120188
Ion Ratio Lower Upper
106 100
91 211.0 105.6 316.8

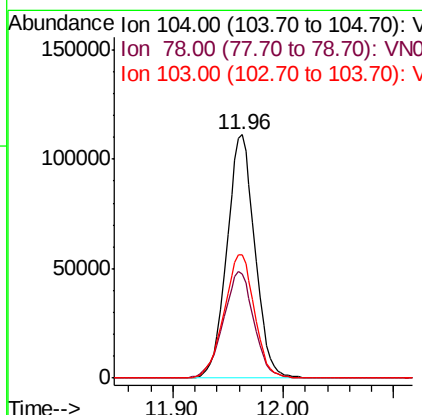
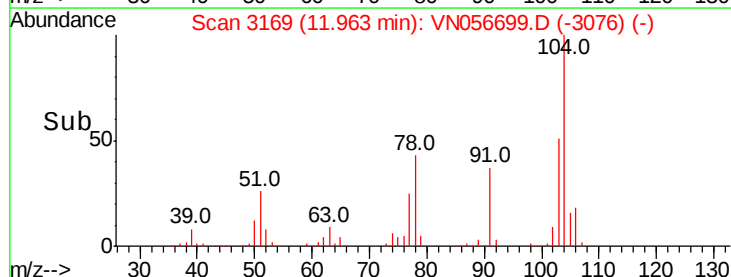
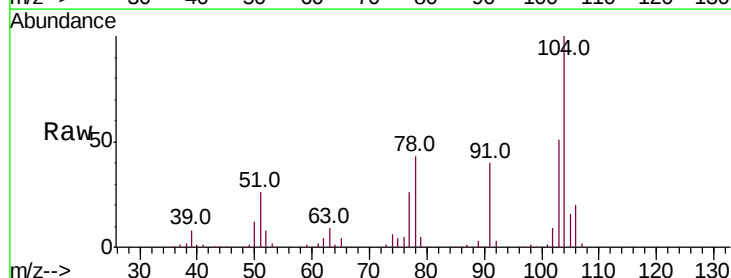
Manual Integrations
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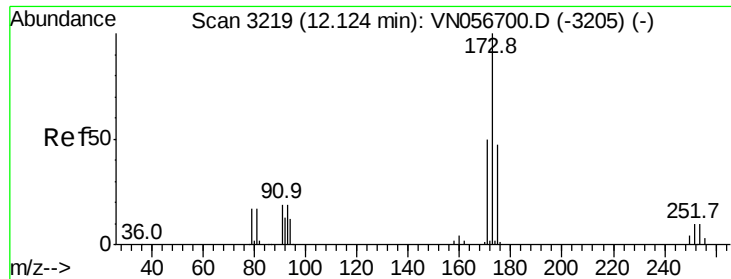
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#70
Styrene
Concen: 20.787 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion:104 Resp: 195234
Ion Ratio Lower Upper
104 100
78 47.7 38.6 57.8
103 55.1 44.2 66.4





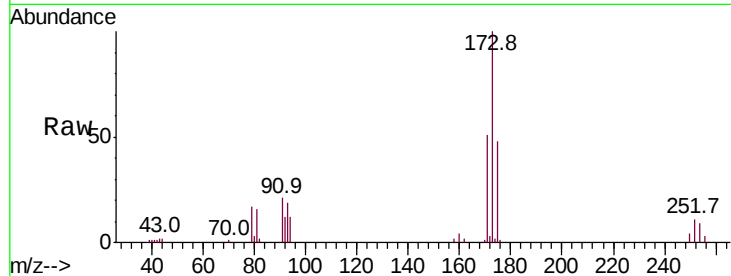
#71
Bromoform
Concen: 23.188 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

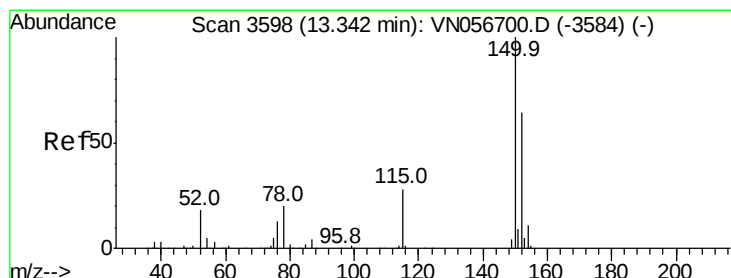
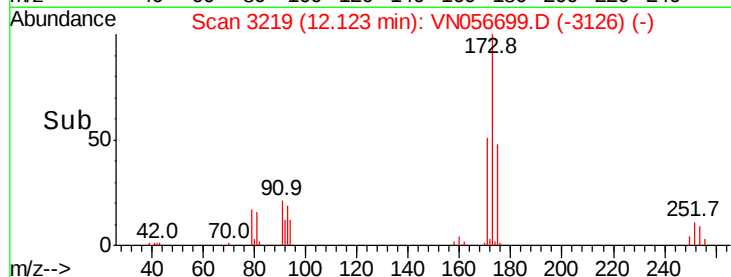
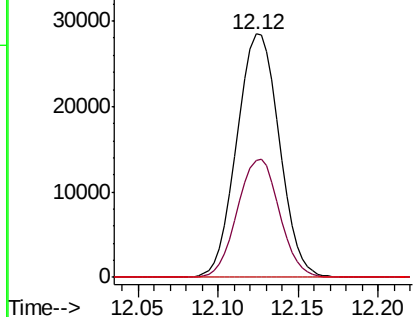
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
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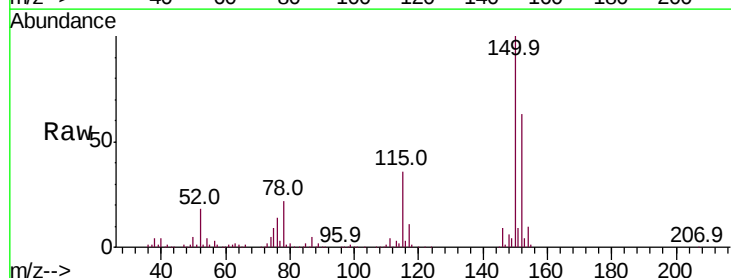


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

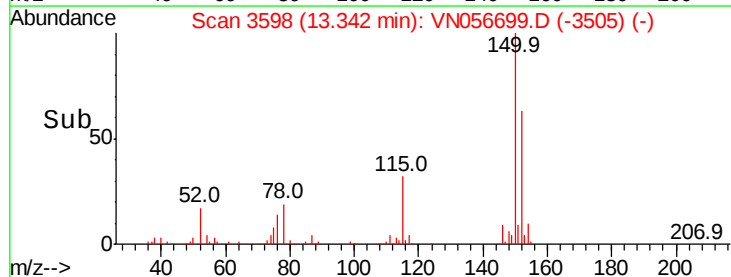
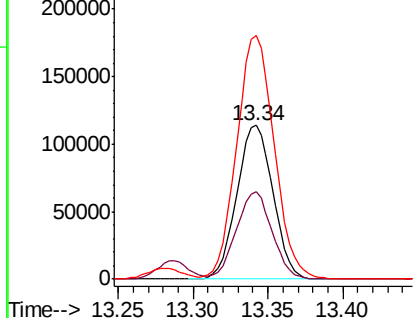


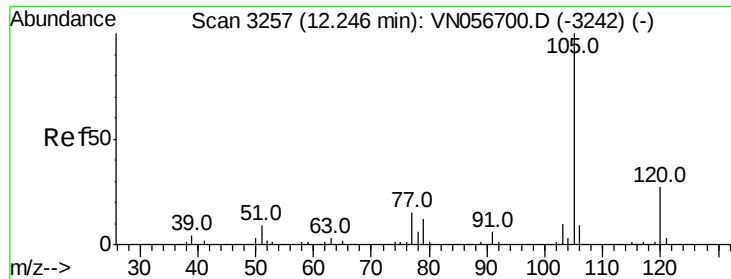
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.2	84.7
150	164.9	0.0	345.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.667 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 312345

Ion Ratio Lower Upper

105 100

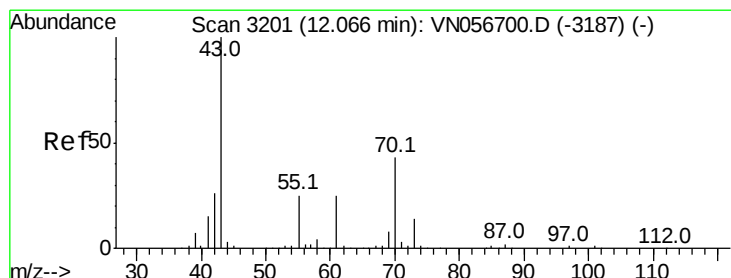
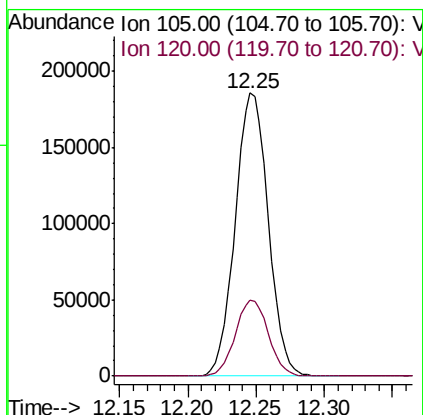
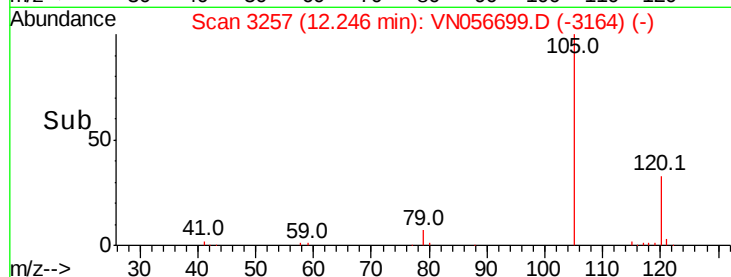
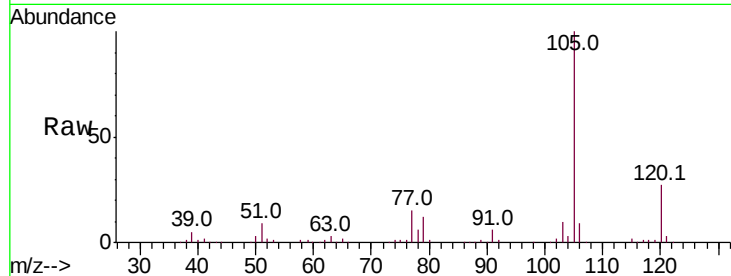
120 26.9 13.4 40.2

Manual Integrations

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#74

N-ethyl acetate

Concen: 18.723 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Tgt Ion: 43 Resp: 113904

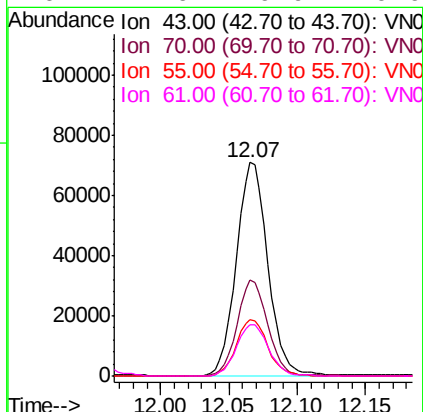
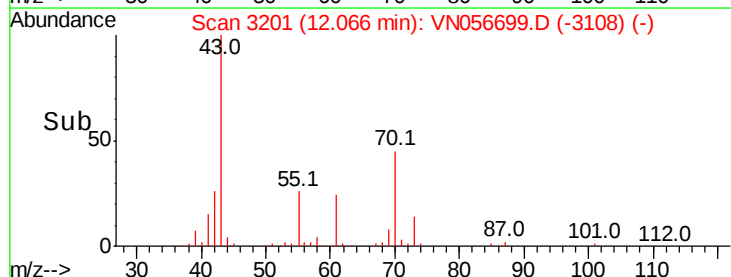
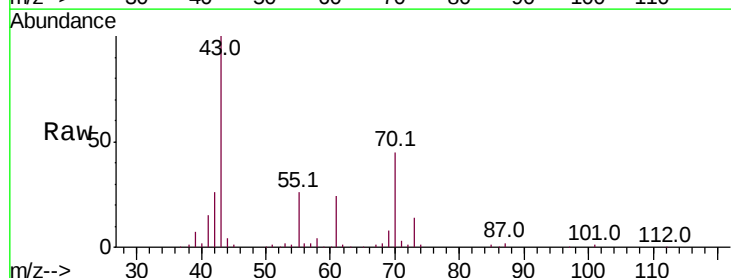
Ion Ratio Lower Upper

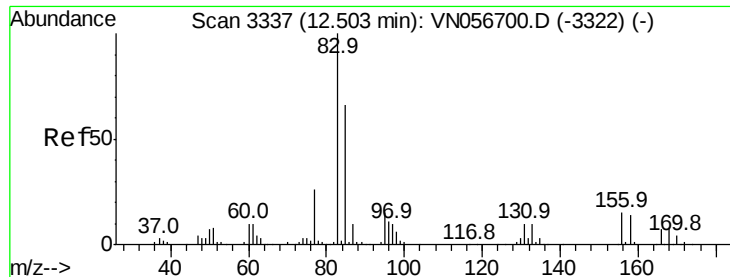
43 100

70 43.5 34.5 51.7

55 26.3 20.2 30.2

61 24.6 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 19.548 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 102456
Ion Ratio Lower Upper

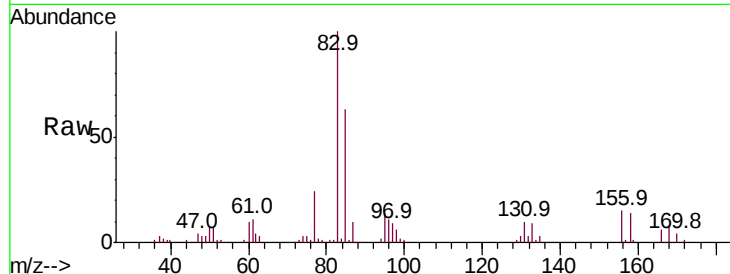
83 100

131 10.2 5.3 15.8

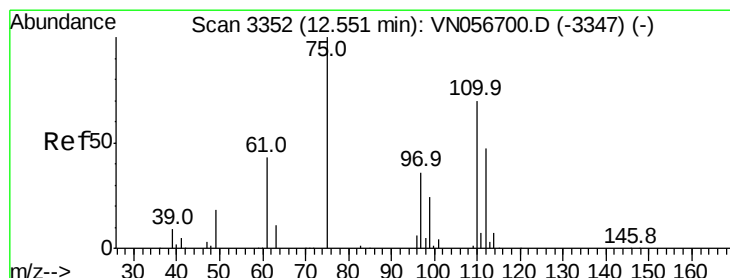
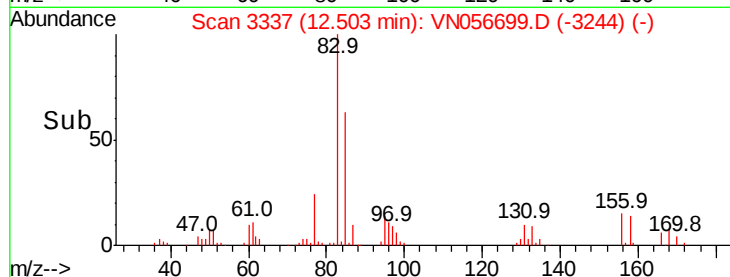
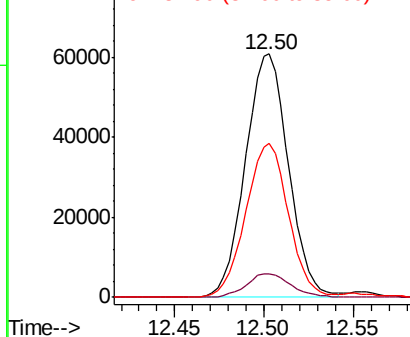
85 62.6 32.6 97.8

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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 21.824 ug/l m

RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

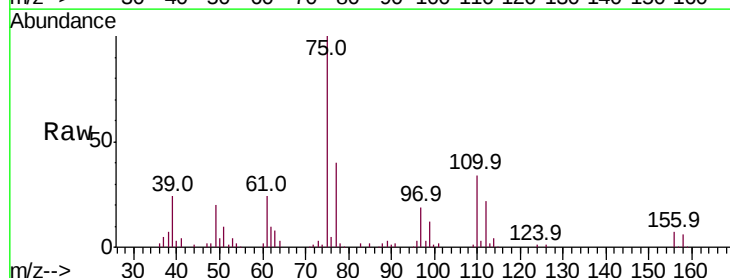
Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

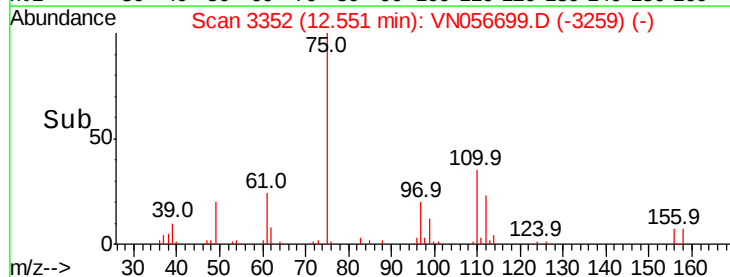
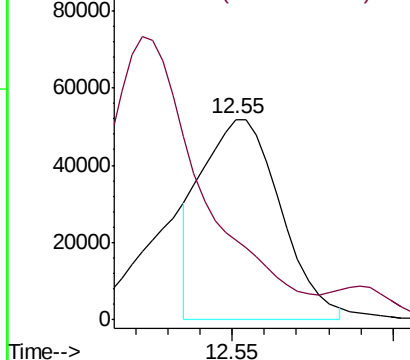
Tgt Ion: 75 Resp: 87696
Ion Ratio Lower Upper

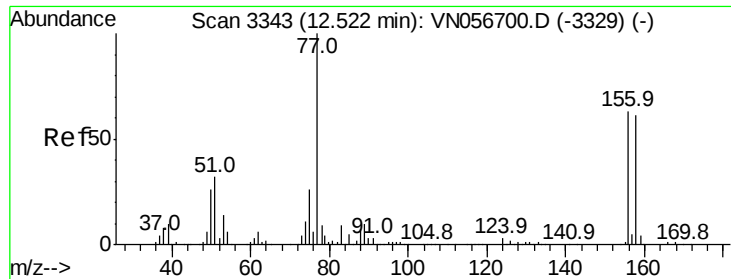
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 19.054 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:156 Resp: 80920

Ion Ratio Lower Upper

156 100

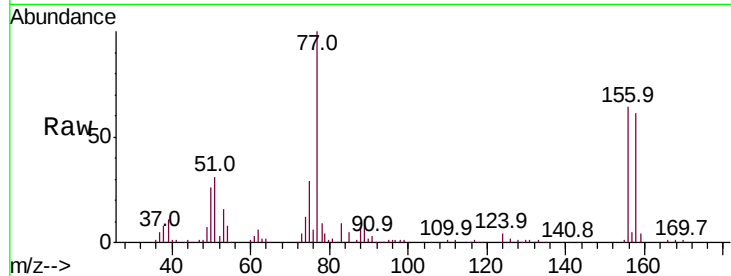
77 192.7 97.2 291.6

158 98.0 48.9 146.8

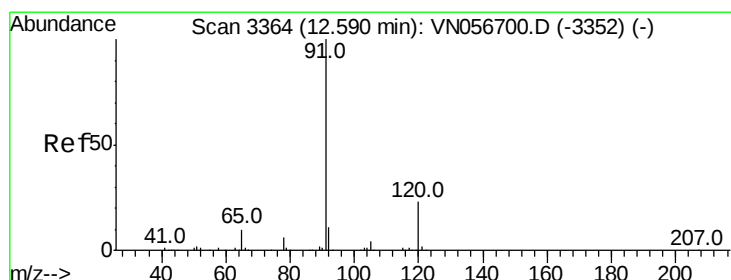
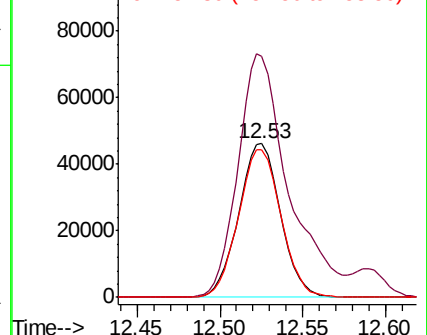
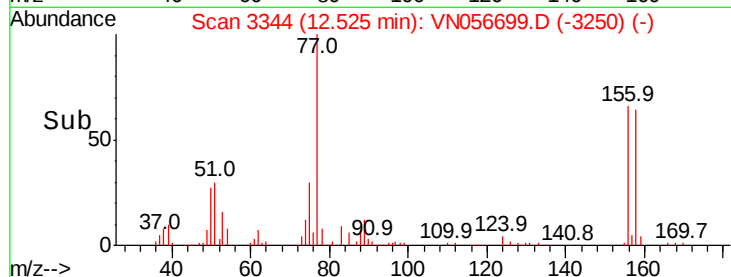
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Abundance Ion 155.80 (155.50 to 156.50): V
100000 Ion 77.00 (76.70 to 77.70): VN
80000 Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.422 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056699.D

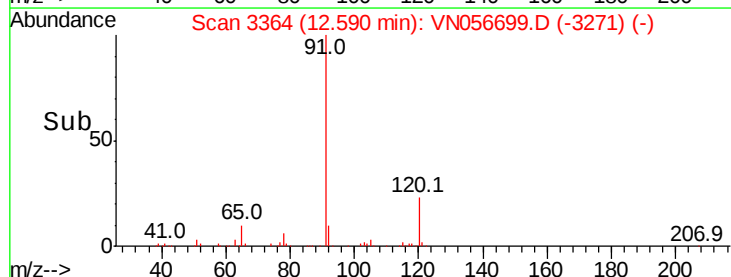
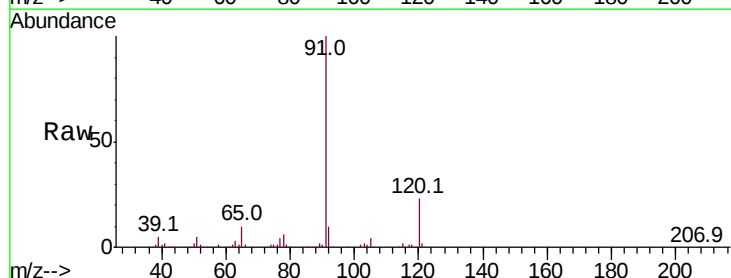
Acq: 15 Jul 2019 9:33

Tgt Ion: 91 Resp: 339636

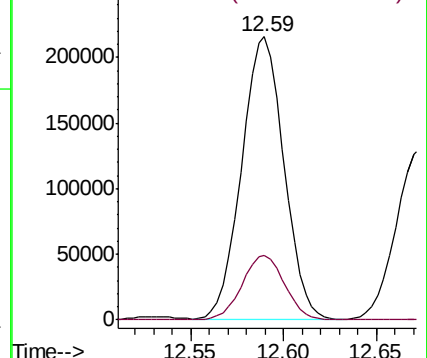
Ion Ratio Lower Upper

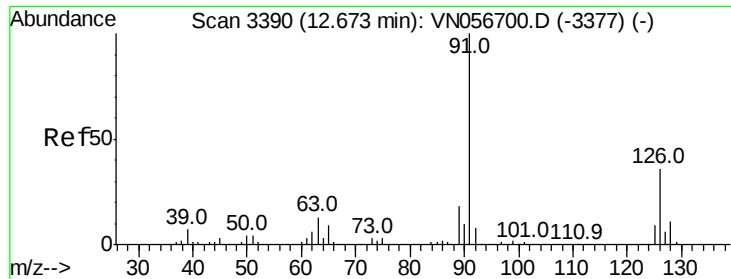
91 100

120 23.2 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VN
250000 Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.256 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 211734

Ion Ratio Lower Upper

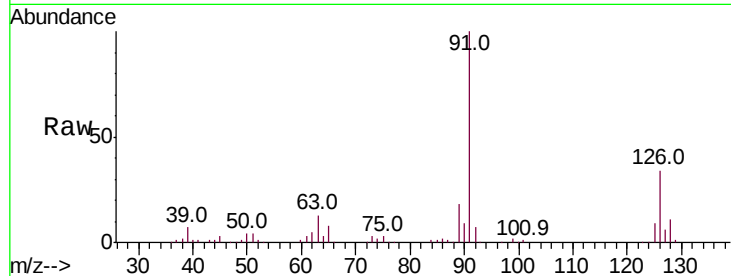
91 100

126 35.2 17.9 53.7

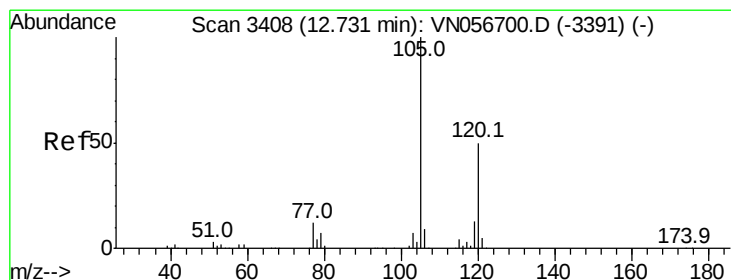
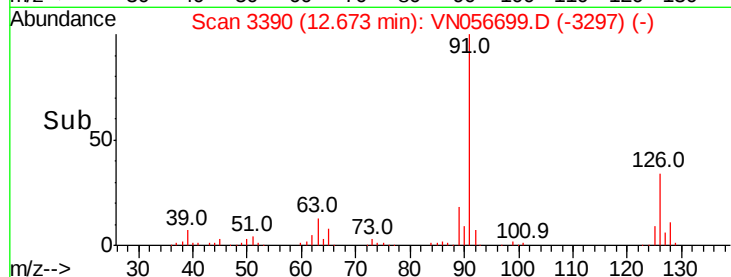
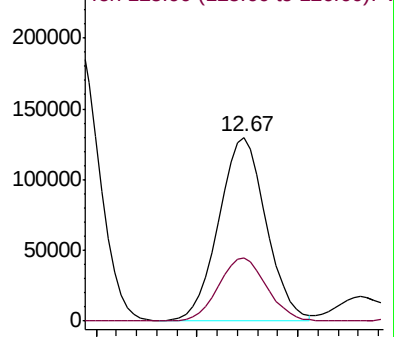
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Abundance Ion 91.00 (90.70 to 91.70): VN056699.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.404 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056699.D

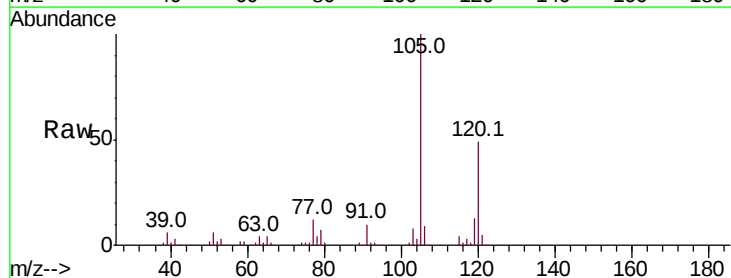
Acq: 15 Jul 2019 9:33

Tgt Ion: 105 Resp: 265504

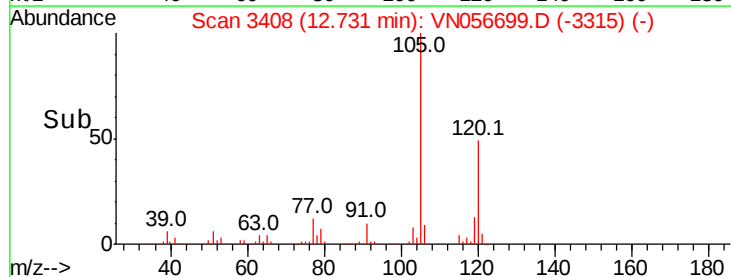
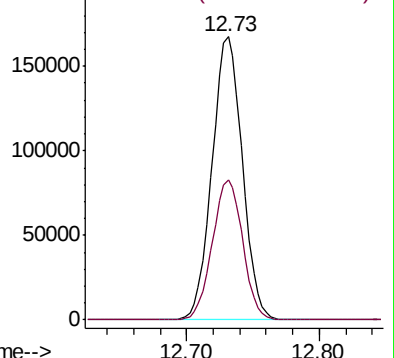
Ion Ratio Lower Upper

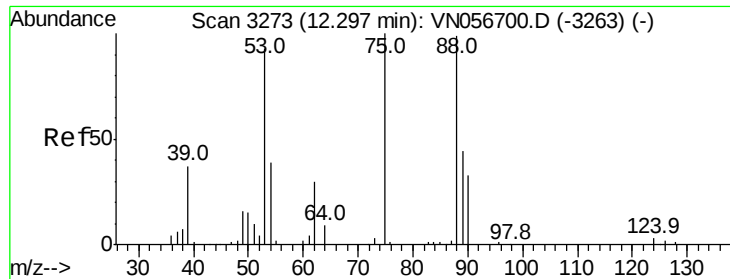
105 100

120 49.4 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VN056699.D (-3315) (-)





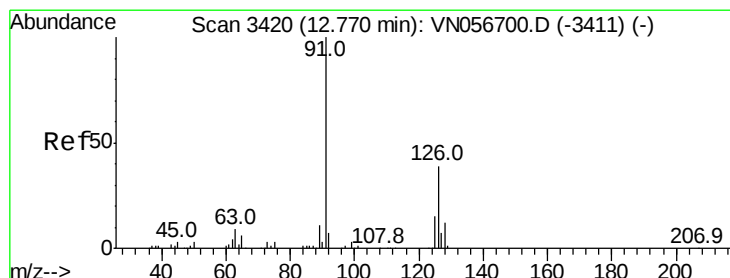
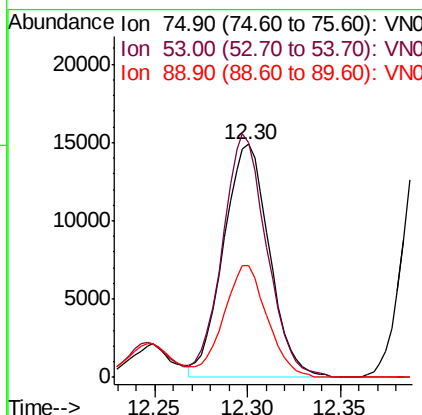
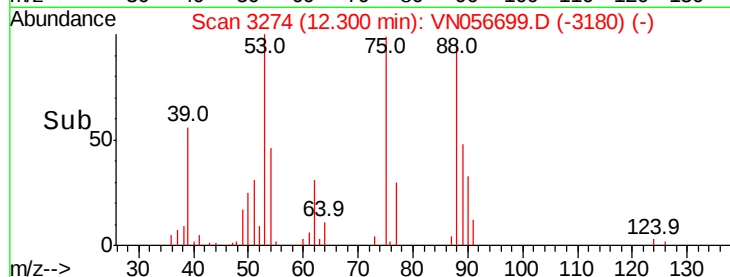
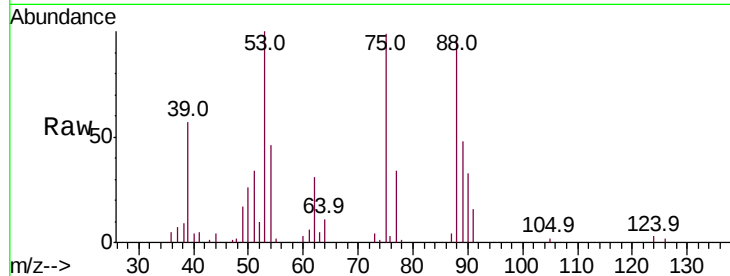
#81
trans-1,4-Dichloro-2-butene
Concen: 21.814 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.7	73.7	110.5
89	46.0	36.2	54.2

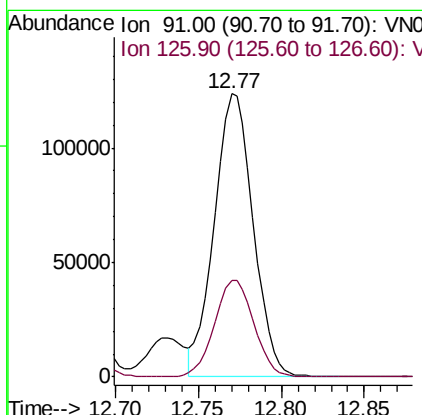
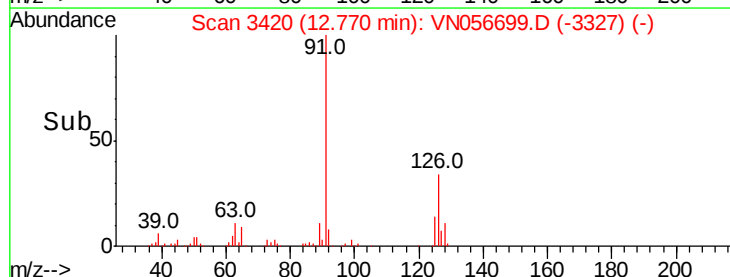
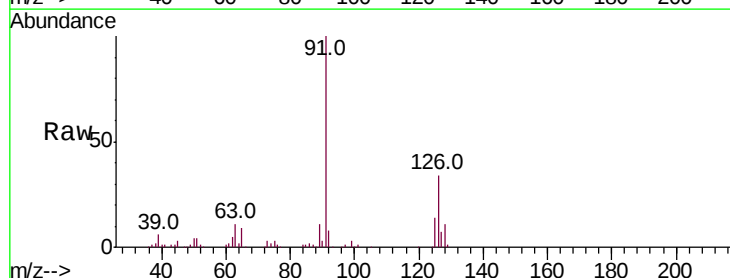
Manual Integrations
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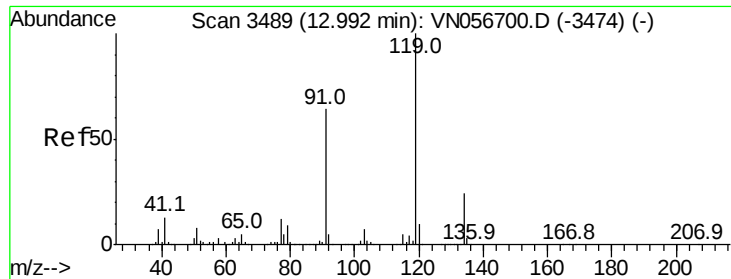
MMDadoda
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#82
4-Chlorotoluene
Concen: 19.597 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN056699.D
Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.6	52.8





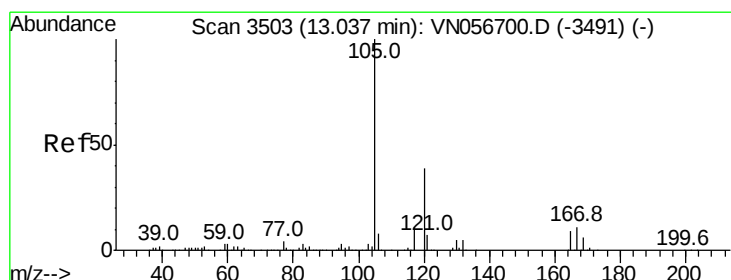
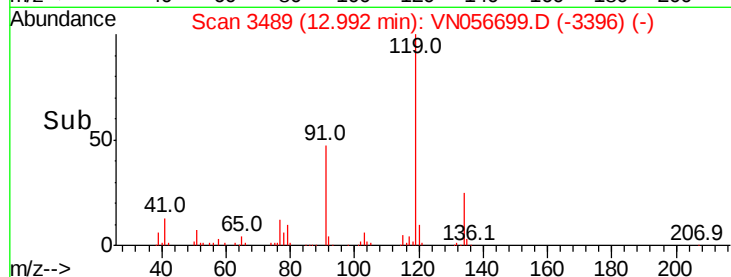
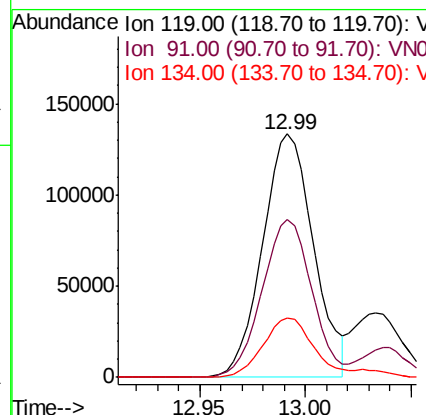
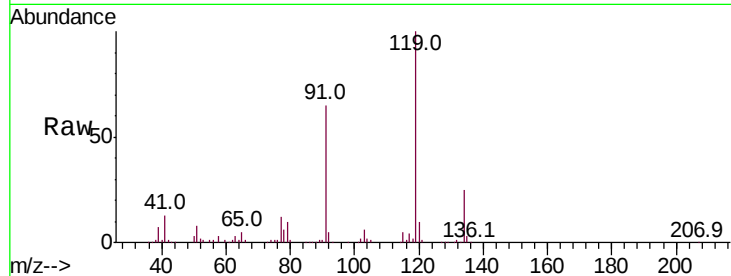
#83
 tert-Butylbenzene
 Concen: 18.064 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.7	31.8	95.4
134	26.2	13.0	38.9

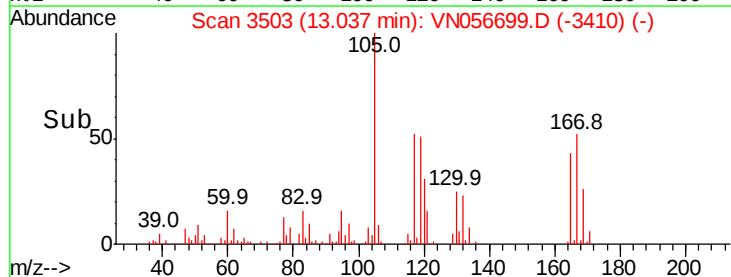
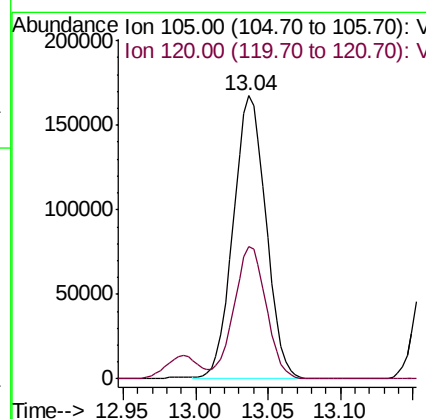
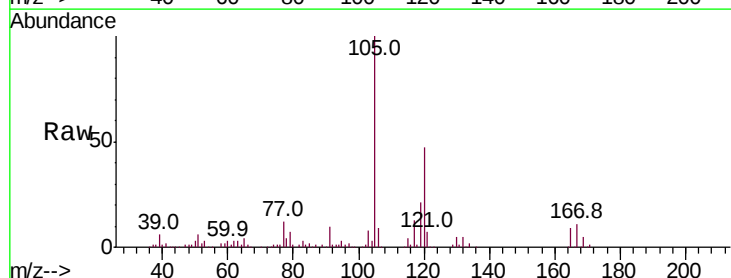
Manual Integrations
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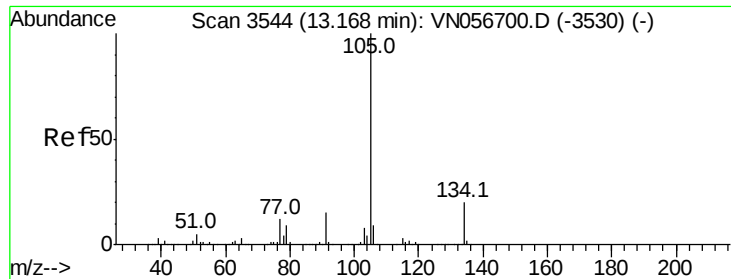
MMDadoda
 7/17/2019 1:31:17 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.354 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.9	68.8





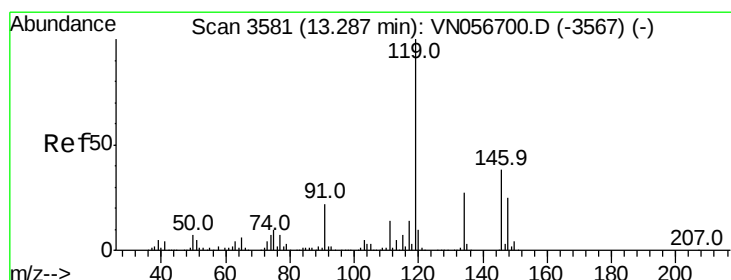
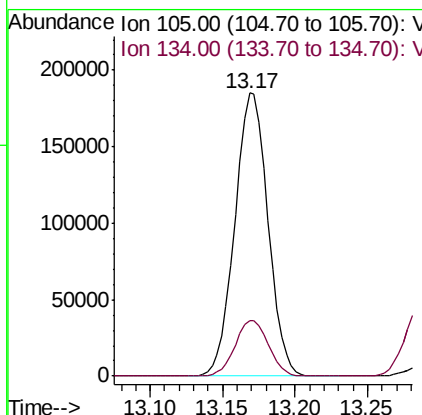
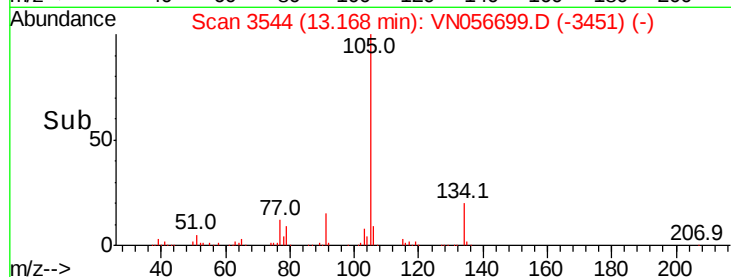
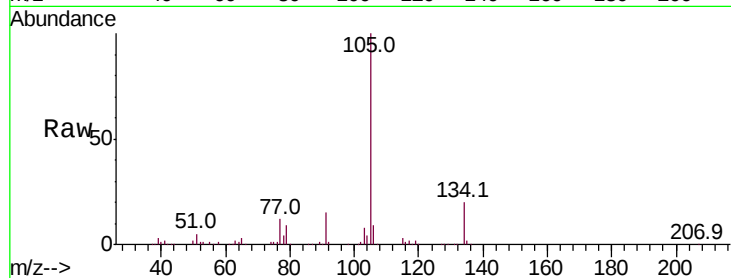
#85
 sec-Butylbenzene
 Concen: 19.187 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.7	10.1	30.1

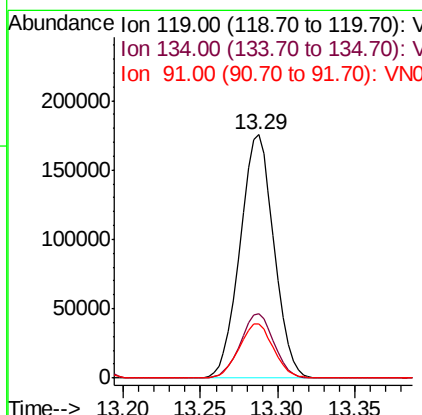
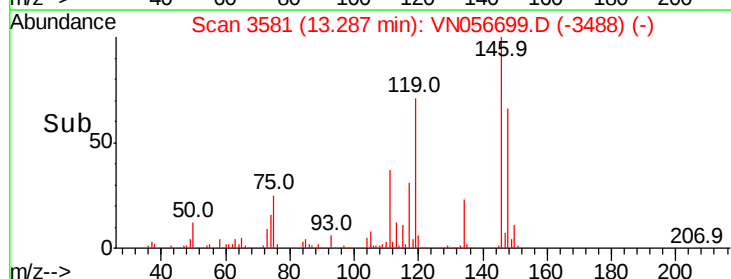
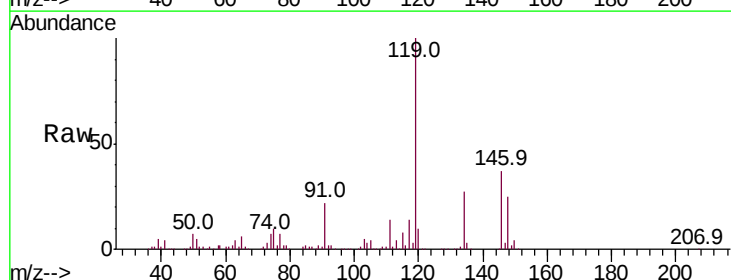
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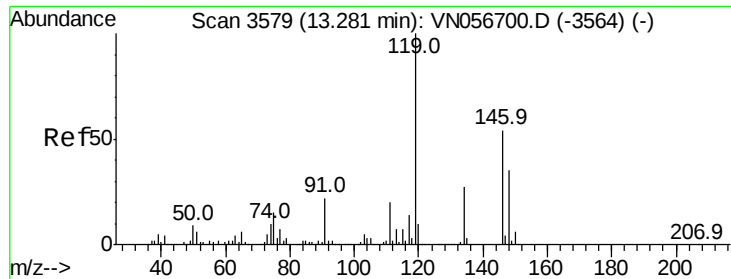
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#86
 p-Isopropyltoluene
 Concen: 20.283 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.6	40.7
91	22.6	11.2	33.5





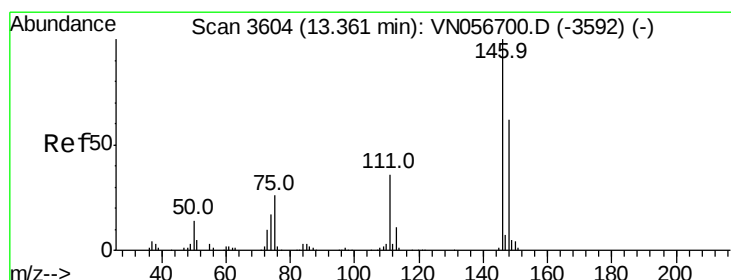
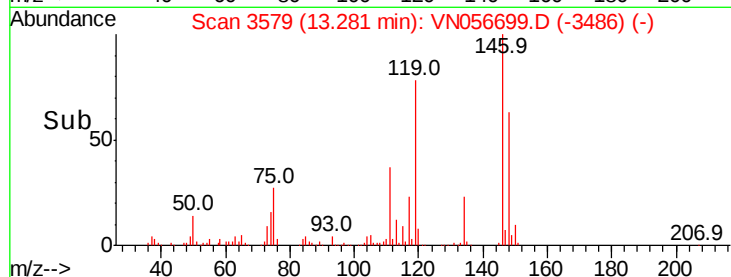
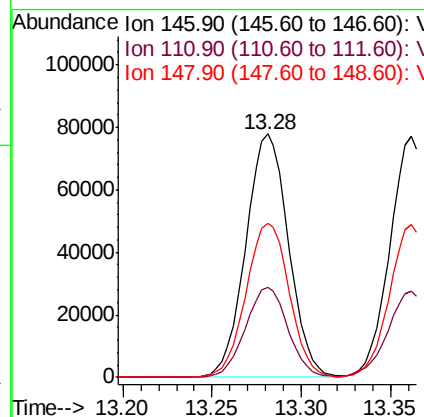
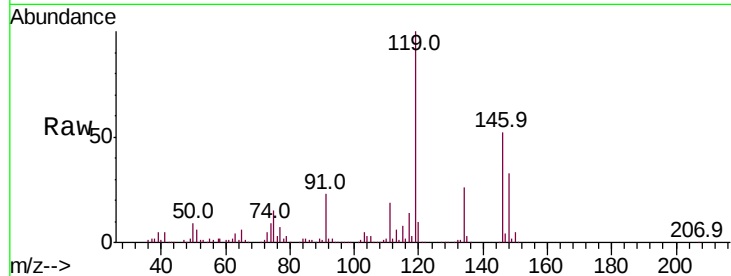
#87
 1,3-Dichlorobenzene
 Concen: 20.076 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	130078		
111	36.8	18.8	56.3	
148	63.9	32.3	96.8	

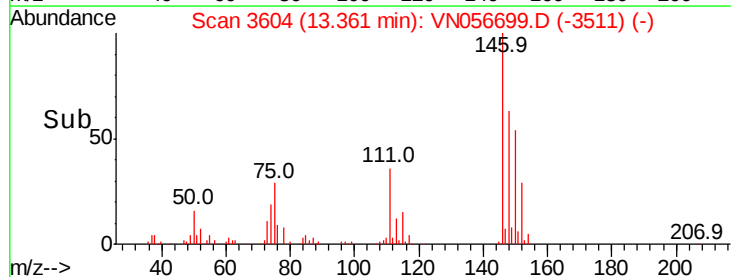
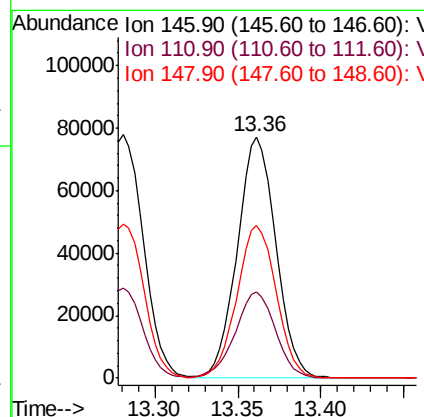
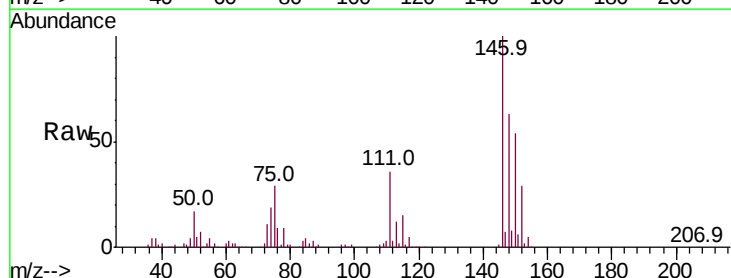
Manual Integrations
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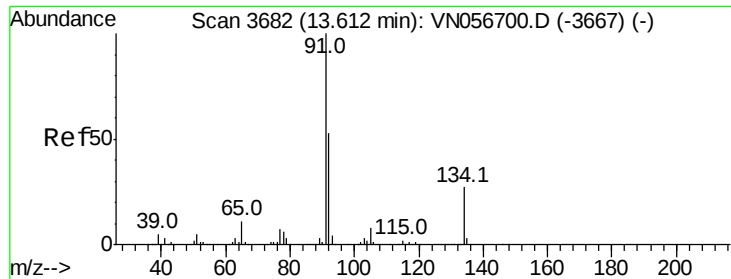
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 7/17/2019 1:31:17 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.842 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	125034		
111	37.4	18.6	55.8	
148	64.5	31.9	95.7	





#89

n-Butylbenzene

Concen: 20.720 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

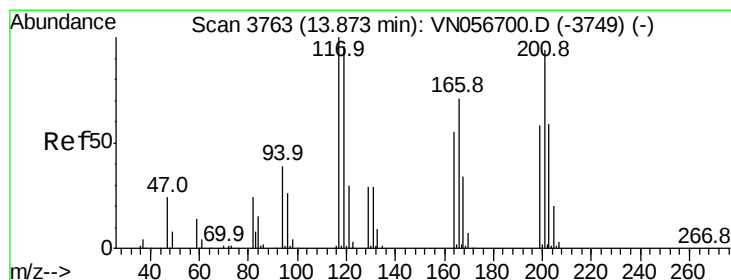
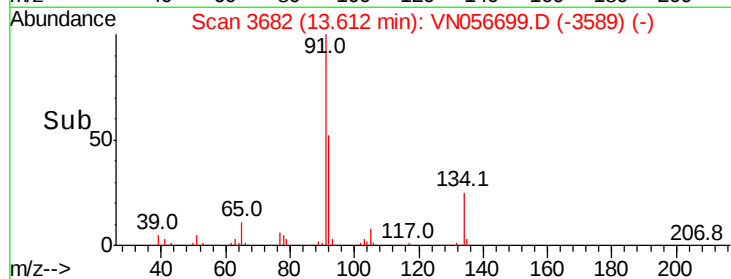
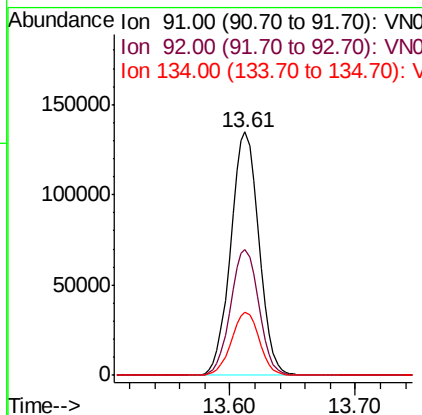
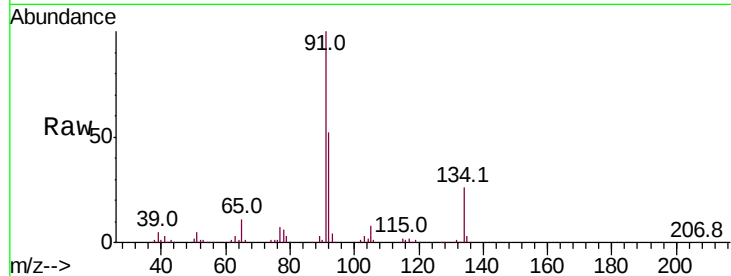
ClientSampleId :

VSTDIC020

Tot Ion:	91	Resp:	210137
Ion Ratio	Lower	Upper	
91	100		
92	51.9	26.0	78.0
134	25.7	13.4	40.2

Manual Integrations
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#90

Hexachloroethane

Concen: 20.302 ug/l

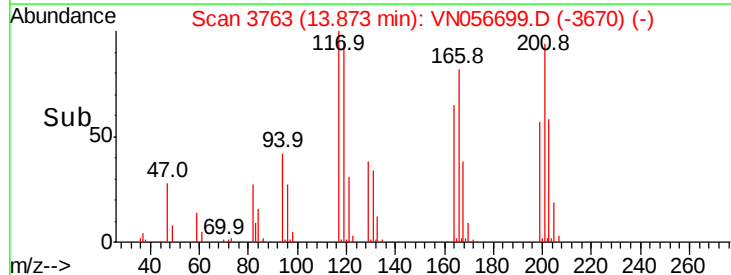
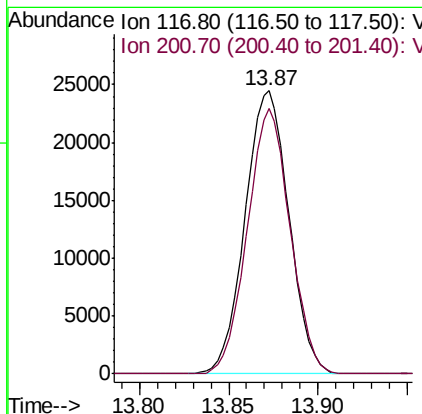
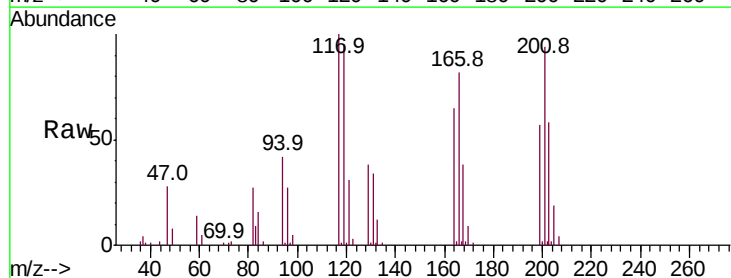
RT: 13.87 min Scan# 3763

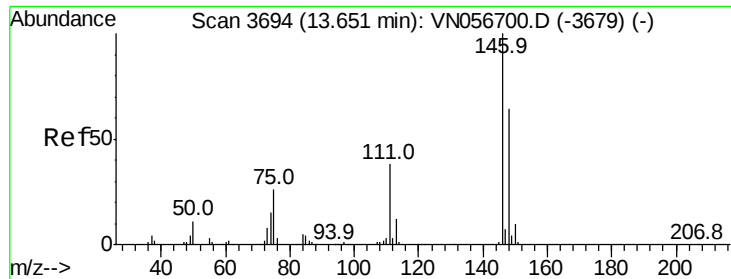
Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Tgt Ion:	117	Resp:	42077
Ion Ratio	Lower	Upper	
117	100		
201	91.1	46.5	139.5





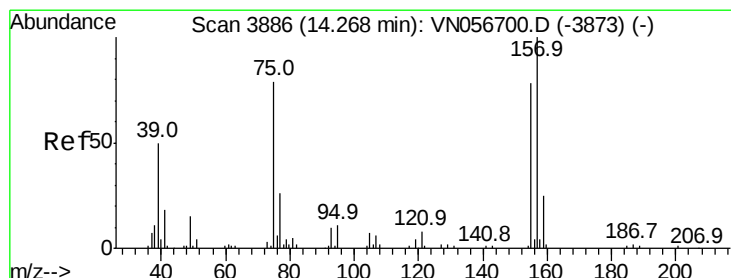
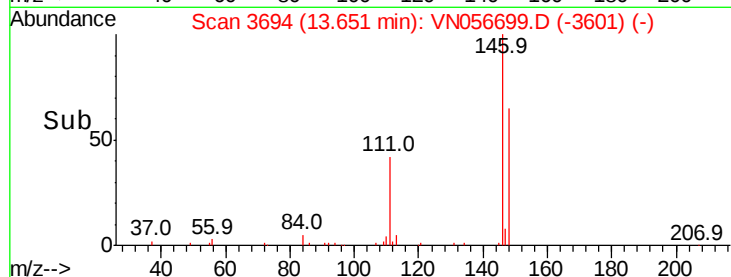
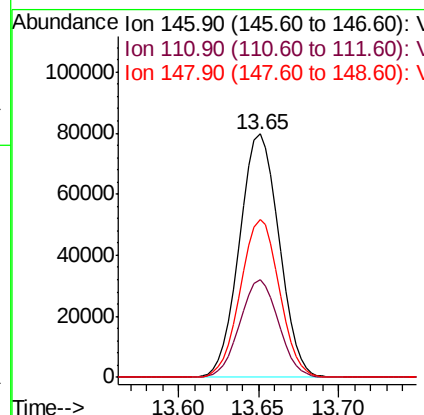
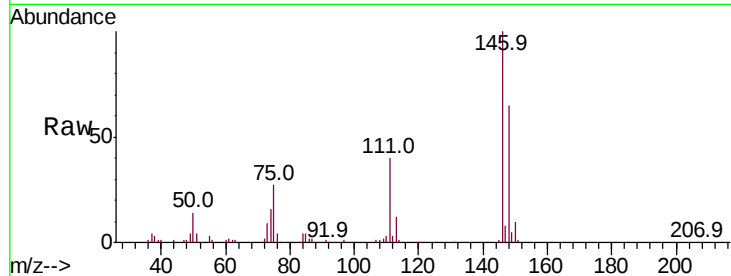
#91
 1,2-Dichlorobenzene
 Concen: 20.924 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	134751		
111	39.0	19.1	57.1	
148	63.8	31.7	95.1	

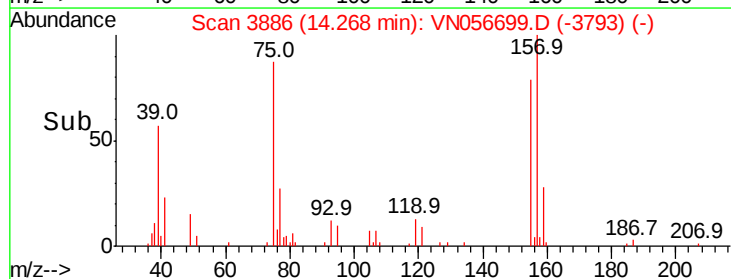
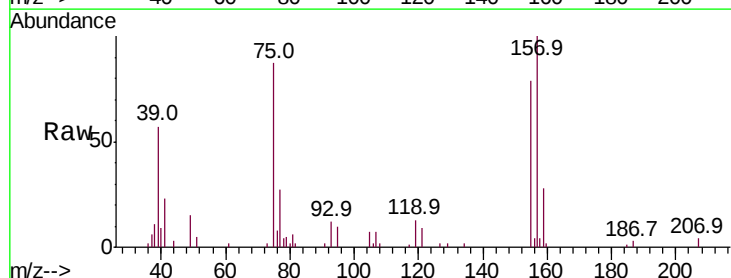
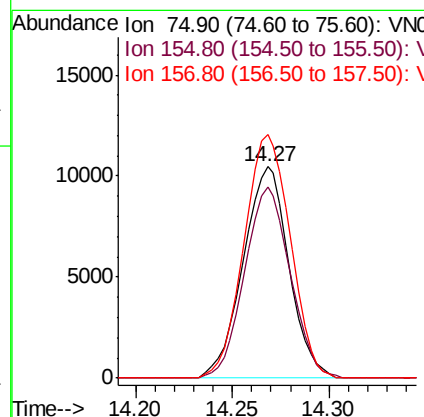
Manual Integrations
 APPROVED

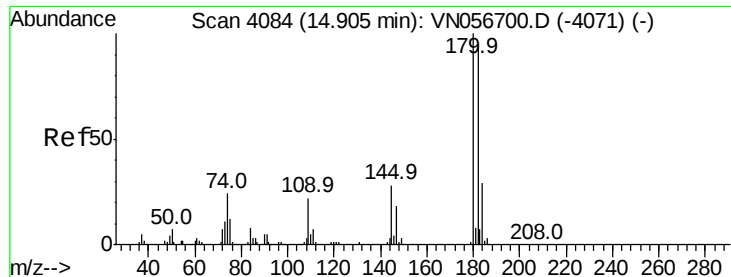
MMDadoda
 7/17/2019 1:31:17 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.814 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN056699.D
 Acq: 15 Jul 2019 9:33

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	17187		
155	90.1	49.3	147.9	
157	116.7	62.4	187.1	





#93

1,2,4-Trichlorobenzene

Concen: 22.933 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

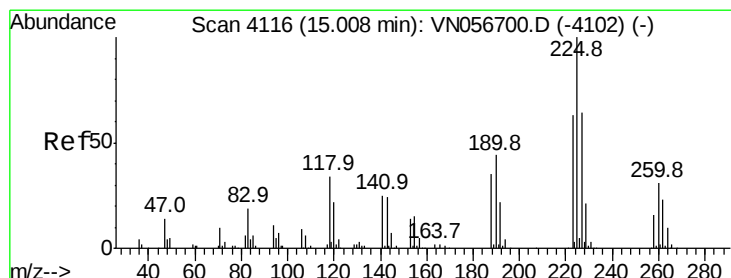
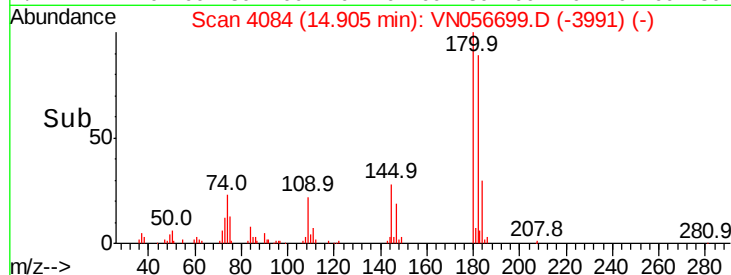
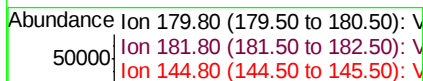
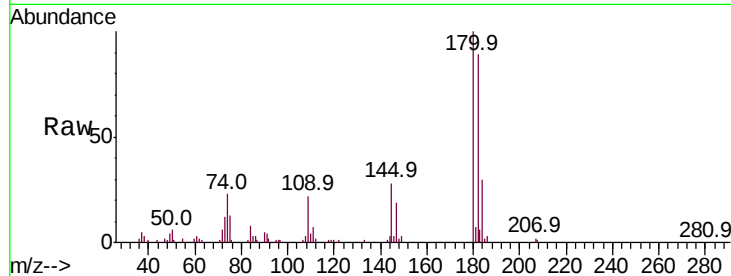
ClientSampleId :

VSTDIC020

Tot Ion:	180	Resp:	63735
Ion Ratio	Lower	Upper	
180	100		
182	92.1	47.2	141.6
145	28.0	14.2	42.8

Manual Integrations
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MMDadoda
7/17/2019 1:31:17 AM



#94

Hexachlorobutadiene

Concen: 19.451 ug/l

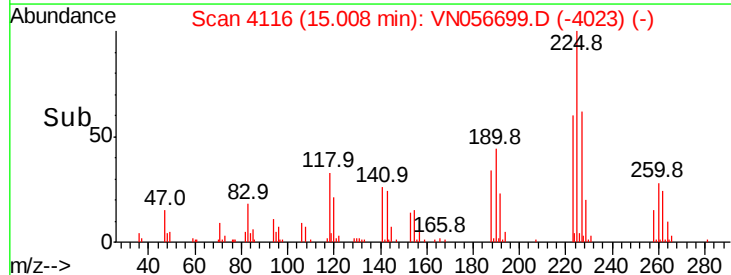
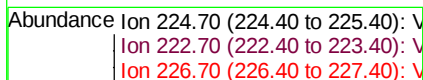
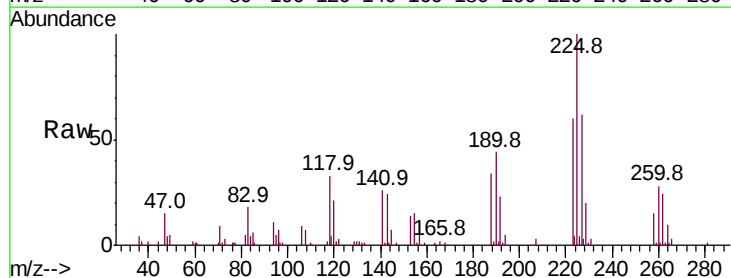
RT: 15.01 min Scan# 4116

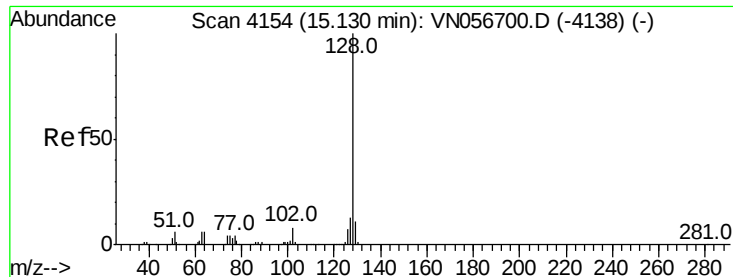
Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Tgt Ion:	225	Resp:	47495
Ion Ratio	Lower	Upper	
225	100		
223	61.3	31.5	94.5
227	62.4	32.0	96.2





#95

Naphthalene

Concen: 21.570 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Instrument :

MSVOA_N

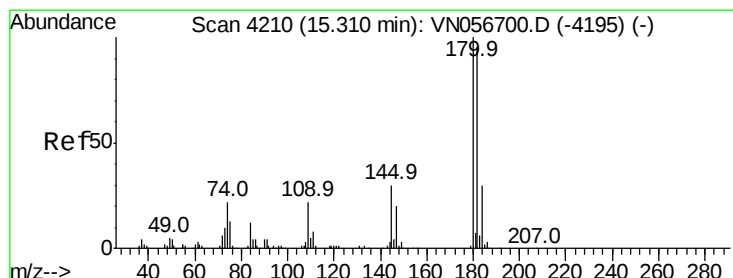
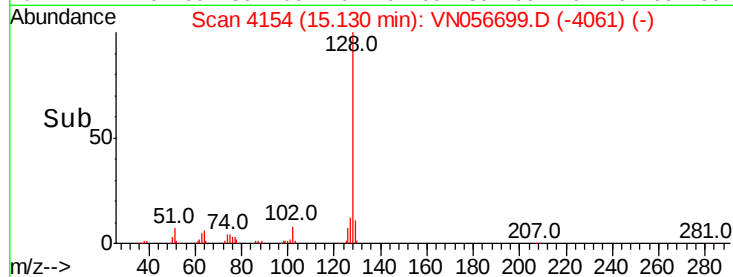
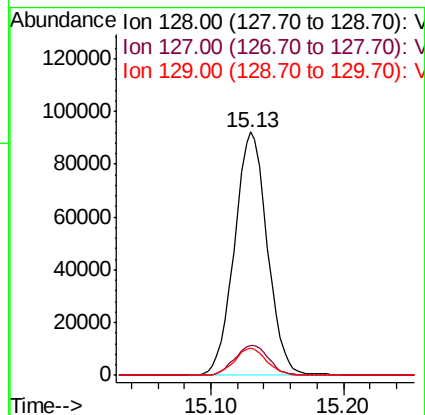
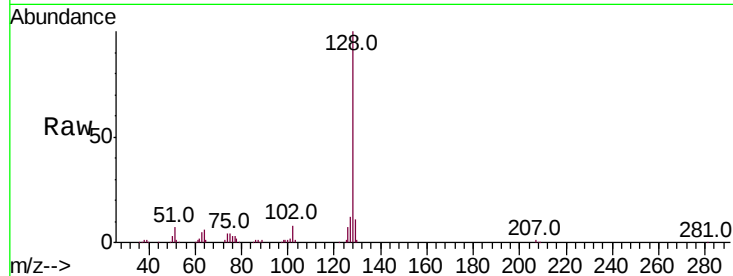
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	158265
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.3	15.5
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/17/2019 1:31:17 AM



#96

1,2,3-Trichlorobenzene

Concen: 22.042 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056699.D

Acq: 15 Jul 2019 9:33

Tgt Ion:	180	Resp:	65253
Ion Ratio	Lower	Upper	
180	100		
182	96.4	47.1	141.3
145	31.0	15.0	45.1

