

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041519\
 Data File : VN055037.D
 Acq On : 15 Apr 2019 10:42
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 1:49:01 PM

Quant Time: Apr 15 12:14:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 11:57:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	406380	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	664667	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	573703	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	228363	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	114117	22.38	ug/l	0.00
Spiked Amount			Recovery	=	44.76%	
35) Dibromofluoromethane	7.59	113	90154	21.28	ug/l	0.00
Spiked Amount			Recovery	=	42.56%	
50) Toluene-d8	10.09	98	324202	20.83	ug/l	0.00
Spiked Amount			Recovery	=	41.66%	
62) 4-Bromofluorobenzene	12.40	95	104751	19.98	ug/l	0.00
Spiked Amount			Recovery	=	39.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	95133	21.223	ug/l	99
3) Chloromethane	2.06	50	121775	20.258	ug/l	98
4) Vinyl Chloride	2.19	62	100051	20.512	ug/l	100
5) Bromomethane	2.56	94	56529	20.020	ug/l	97
6) Chloroethane	2.70	64	55274	20.548	ug/l	93
7) Trichlorofluoromethane	3.02	101	127062	20.767	ug/l	99
8) Diethyl Ether	3.41	74	40978	21.296	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	66522	20.845	ug/l	99
10) Methyl Iodide	3.94	142	118611	25.771	ug/l	96
11) Tert butyl alcohol	4.82	59	29374	93.603	ug/l #	90
12) 1,1-Dichloroethene	3.73	96	61685	19.633	ug/l	95
13) Acrolein	3.61	56	35932	94.860	ug/l	98
14) Allyl chloride	4.32	41	157398	20.503	ug/l	99
15) Acrylonitrile	5.00	53	183233	105.862	ug/l	99
16) Acetone	3.82	43	148032	105.663	ug/l	99
17) Carbon Disulfide	4.04	76	201429	19.683	ug/l	97
18) Methyl Acetate	4.33	43	86178	19.844	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	236952	21.107	ug/l	99
20) Methylene Chloride	4.54	84	99192	19.321	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	85628	20.688	ug/l	93
22) Diisopropyl ether	5.96	45	331418	21.292	ug/l	97
23) Vinyl Acetate	5.90	43	1133161	104.086	ug/l	100
24) 1,1-Dichloroethane	5.85	63	175646	20.894	ug/l	99
25) 2-Butanone	6.85	43	232395	107.704	ug/l	99
26) 2,2-Dichloropropane	6.82	77	111982	20.134	ug/l	94
27) cis-1,2-Dichloroethene	6.83	96	101061	21.018	ug/l	98
28) Bromochloromethane	7.19	49	88485	22.185	ug/l	99
29) Tetrahydrofuran	7.22	42	149820	105.919	ug/l	99
30) Chloroform	7.37	83	169292	21.118	ug/l	99
31) Cyclohexane	7.65	56	162381	17.553	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	133634	20.925	ug/l	98
36) 1,1-Dichloropropene	7.79	75	121878	19.841	ug/l	99
37) Ethyl Acetate	6.94	43	97783	21.204	ug/l	99
38) Carbon Tetrachloride	7.77	117	112202	19.405	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	131047	18.634	ug/l	99
40) Benzene	8.04	78	372163	20.039	ug/l	97
41) Methacrylonitrile	7.18	41	59471	20.958	ug/l	96
42) 1,2-Dichloroethane	8.12	62	132883	20.339	ug/l	99
43) Isopropyl Acetate	8.17	43	157741	20.004	ug/l	99
44) Trichloroethene	8.83	130	94724	19.958	ug/l	99
45) 1,2-Dichloropropane	9.12	63	106494	20.320	ug/l	98
46) Dibromomethane	9.21	93	60386	20.108	ug/l	95
47) Bromodichloromethane	9.40	83	122008	19.979	ug/l	99
48) Methyl methacrylate	9.20	41	77813	19.156	ug/l	99
49) 1,4-Dioxane	9.21	88	14499	331.894	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	465758	100.877	ug/l	99
52) Toluene	10.16	92	220501	20.075	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	106194	19.204	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	135303	19.863	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	82422	20.144	ug/l	98
56) Ethyl methacrylate	10.43	69	97764	18.569	ug/l	96
57) 1,3-Dichloropropane	10.71	76	144317	20.446	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	187760	91.144	ug/l	100
59) 2-Hexanone	10.75	43	292406	101.347	ug/l	99
60) Dibromochloromethane	10.90	129	83494	20.501	ug/l	99
61) 1,2-Dibromoethane	11.01	107	77373	19.751	ug/l	97
64) Tetrachloroethene	10.63	164	89878	20.028	ug/l	96
65) Chlorobenzene	11.43	112	230084	20.799	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	84713	20.780	ug/l	99
67) Ethyl Benzene	11.51	91	410897	20.222	ug/l	100
68) m/p-Xylenes	11.62	106	305479	41.091	ug/l	98
69) o-Xylene	11.95	106	150994	20.528	ug/l	98
70) Styrene	11.96	104	241156	20.677	ug/l	99
71) Bromoform	12.13	173	49965	20.289	ug/l #	97
73) Isopropylbenzene	12.25	105	389154	20.043	ug/l	99
74) N-amyl acetate	12.07	43	111697	19.086	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	103795	20.648	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	79929m	19.025	ug/l	
77) Bromobenzene	12.53	156	94604	19.835	ug/l	100
78) n-propylbenzene	12.59	91	428259	20.245	ug/l	100
79) 2-Chlorotoluene	12.67	91	262875	20.116	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	321884	20.364	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	19756	19.409	ug/l	95
82) 4-Chlorotoluene	12.77	91	251205	19.876	ug/l	99
83) tert-Butylbenzene	12.99	119	266570	19.686	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	309959	20.451	ug/l	100
85) sec-Butylbenzene	13.17	105	340176	19.676	ug/l	100
86) p-Isopropyltoluene	13.29	119	295317	19.638	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	152240	19.627	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	142797	19.249	ug/l	98
89) n-Butylbenzene	13.61	91	217673	18.430	ug/l	100
90) Hexachloroethane	13.87	117	44801	18.029	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	156726	20.814	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	13646	20.876	ug/l	97

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QLast Update : Mon Apr 15 11:57:07 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	56105	17.694	ug/l	97
94) Hexachlorobutadiene	15.01	225	46736	17.809	ug/l	98
95) Naphthalene	15.13	128	129511	17.451	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	59393	17.485	ug/l	99

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

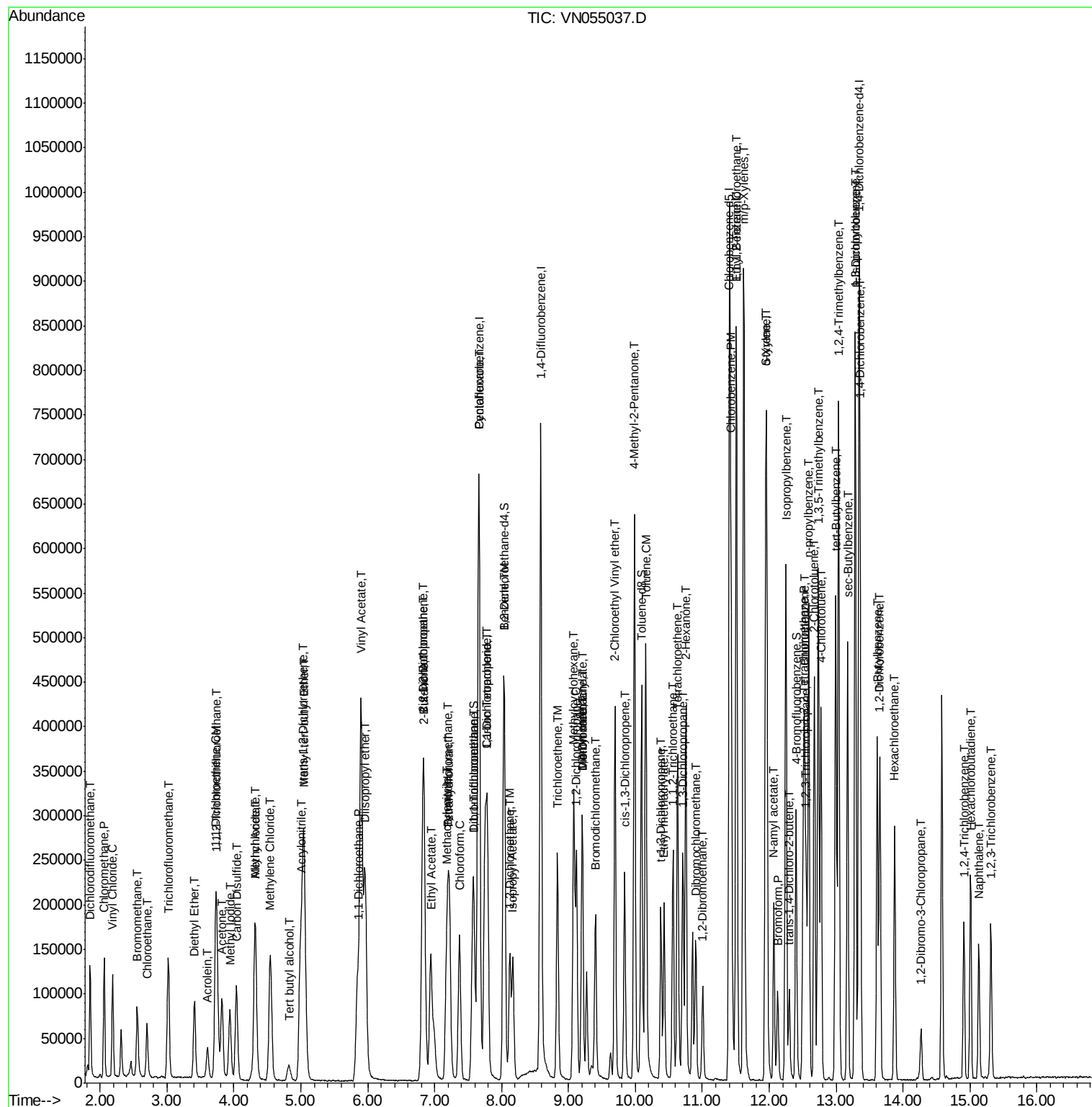
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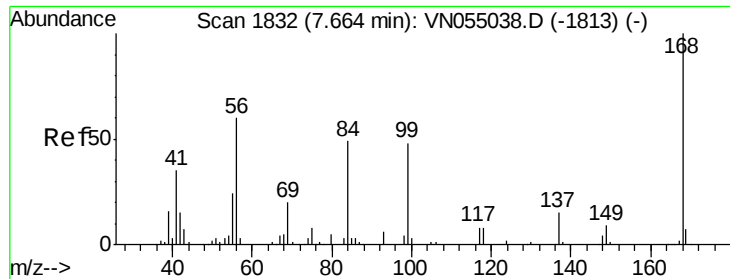
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 406380

Ion Ratio Lower Upper

168 100

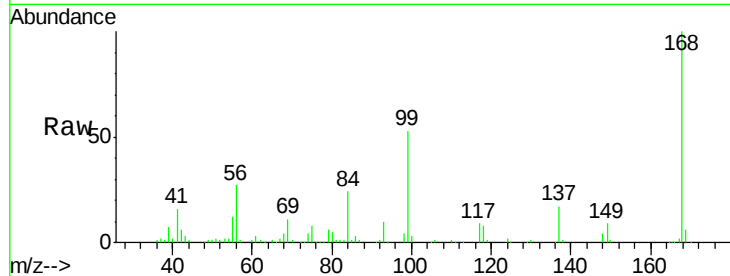
99 51.6 41.9 62.9

Manual Integrations

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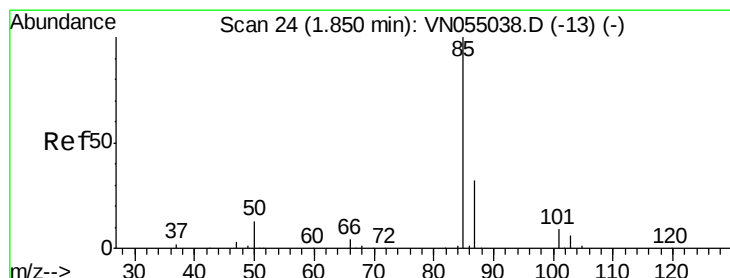
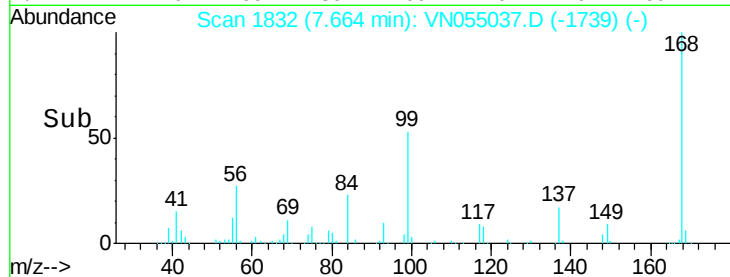
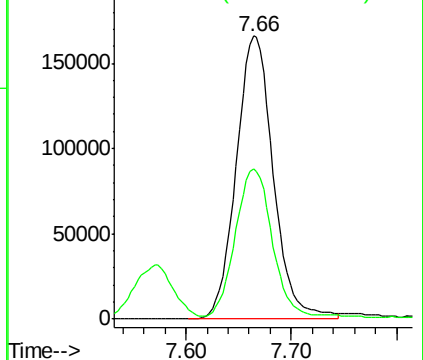
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 21.223 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055037.D

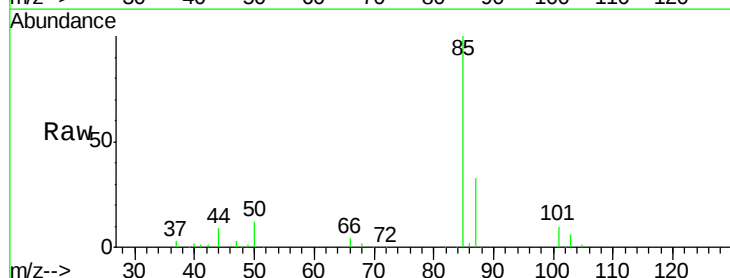
Acq: 15 Apr 2019 10:42

Tgt Ion: 85 Resp: 95133

Ion Ratio Lower Upper

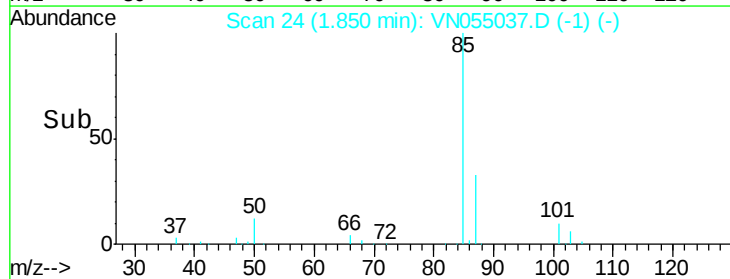
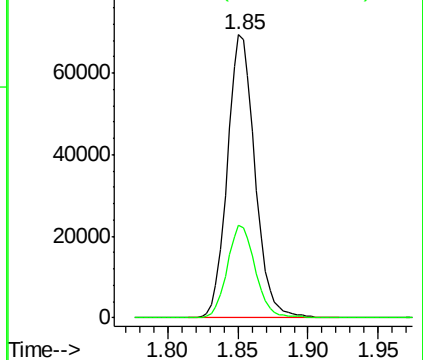
85 100

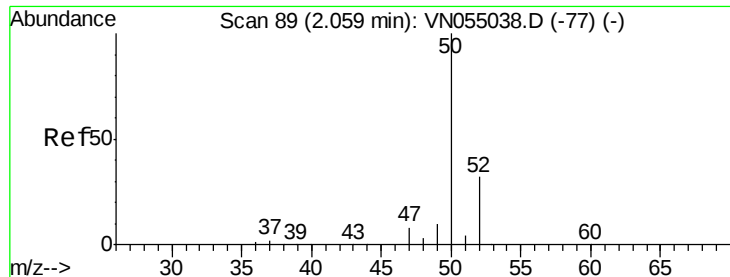
87 32.5 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 20.258 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 121775

Ion Ratio Lower Upper

50 100

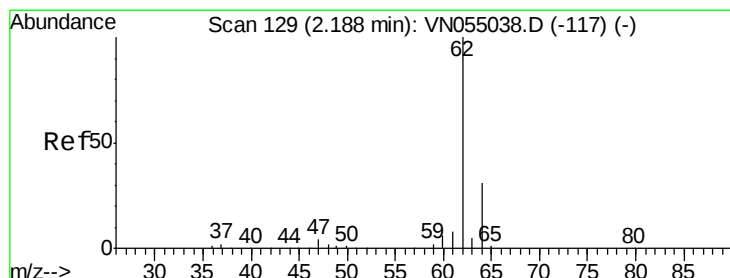
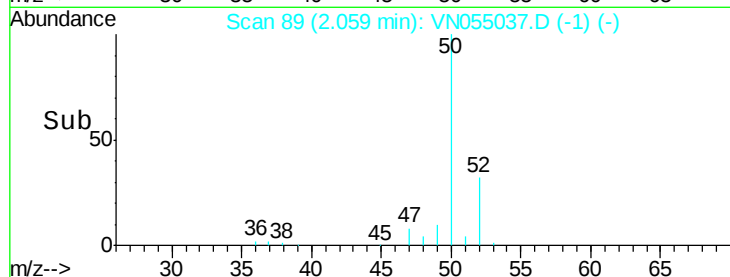
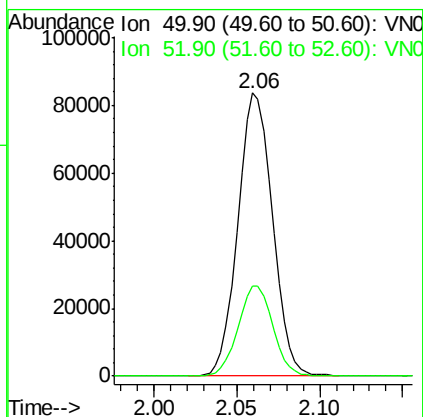
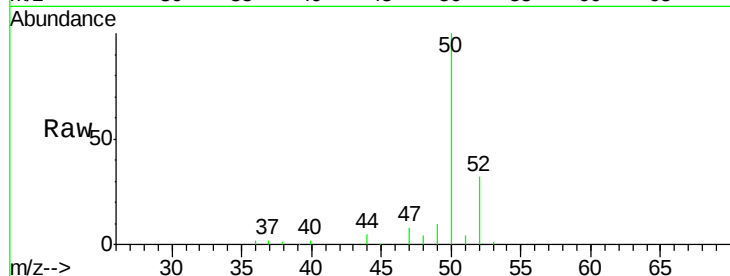
52 31.9 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.512 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055037.D

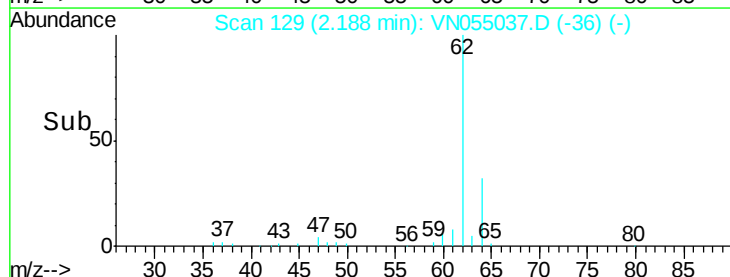
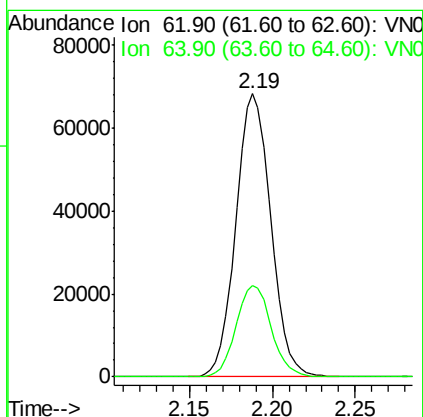
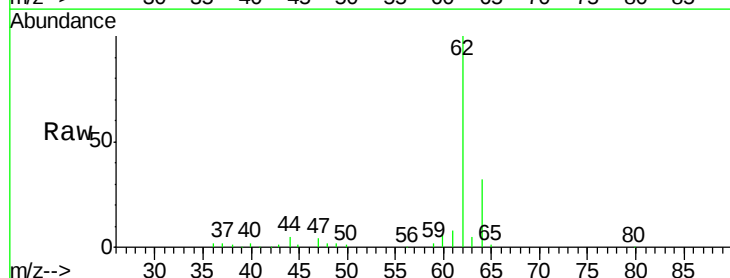
Acq: 15 Apr 2019 10:42

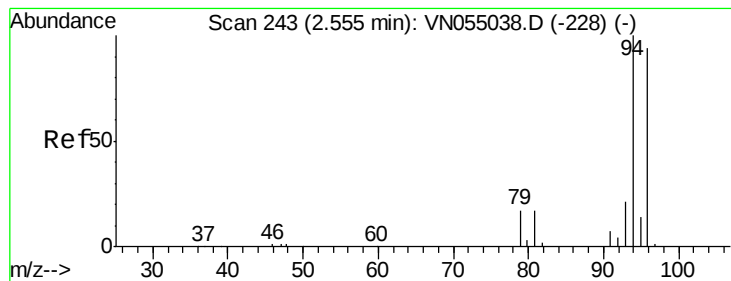
Tgt Ion: 62 Resp: 100051

Ion Ratio Lower Upper

62 100

64 32.4 25.8 38.6





#5

Bromomethane

Concen: 20.020 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tot Ion: 94 Resp: 56529

Ion Ratio Lower Upper

94 100

96 97.8 76.2 114.4

Instrument :

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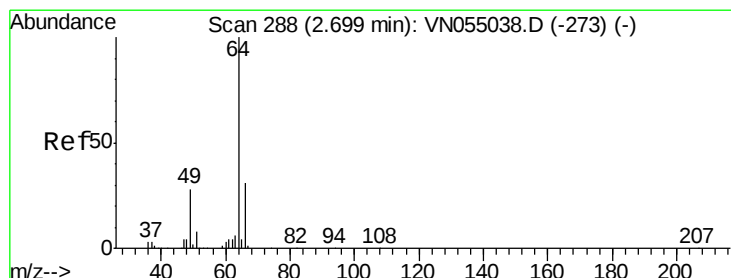
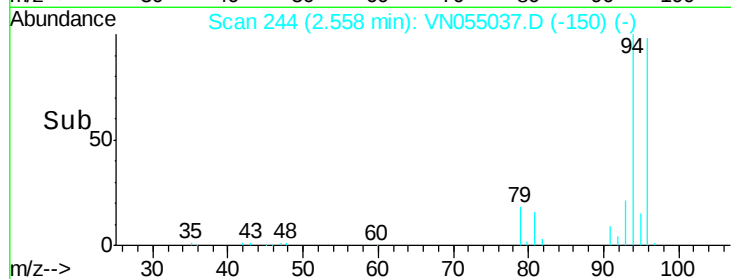
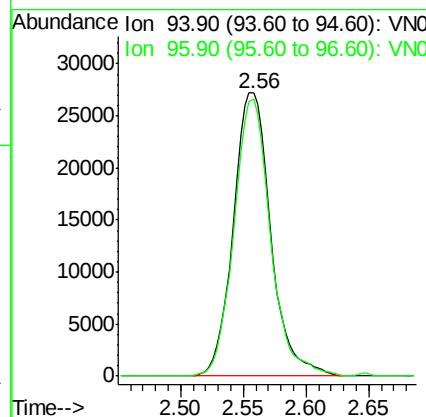
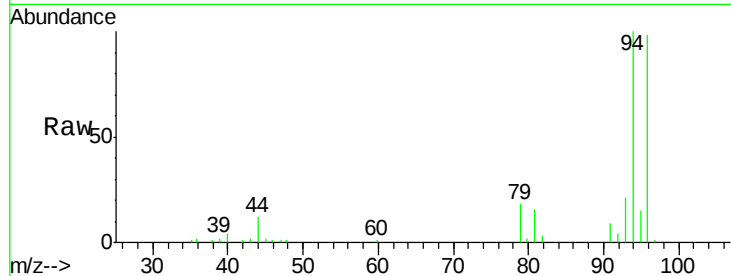
VSTDIC020

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#6

Chloroethane

Concen: 20.548 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

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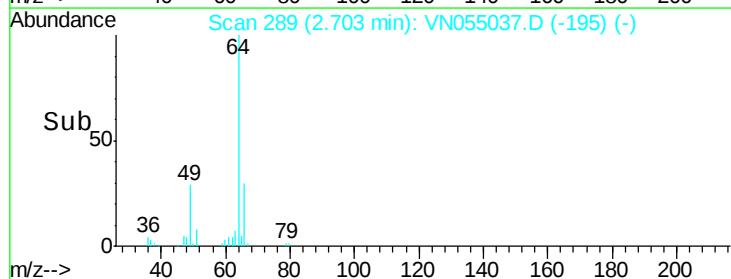
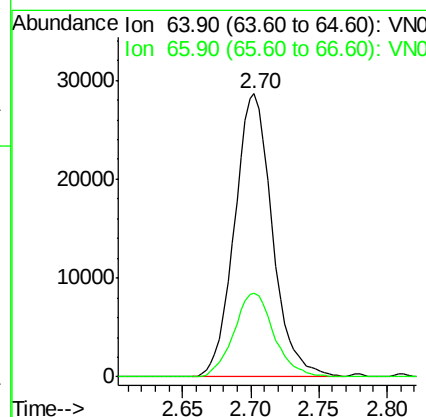
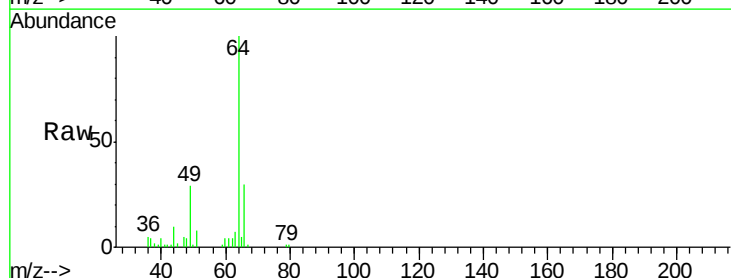
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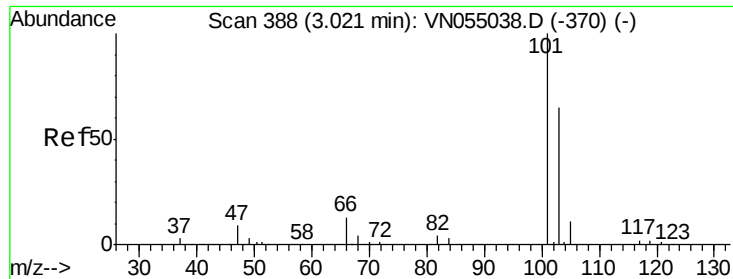
Tgt Ion: 64 Resp: 55274

Ion Ratio Lower Upper

64 100

66 29.5 26.6 40.0





#7

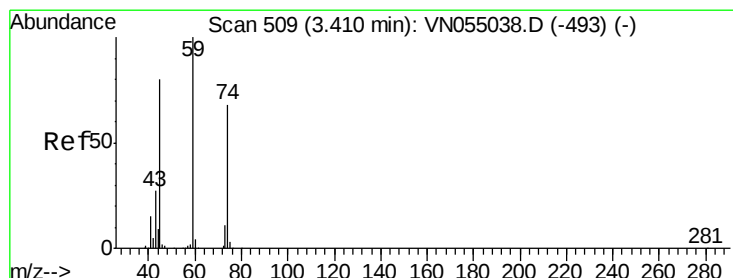
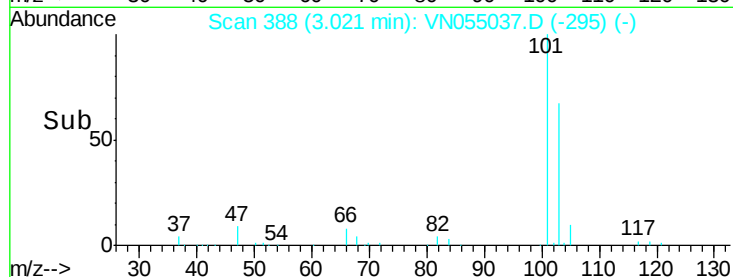
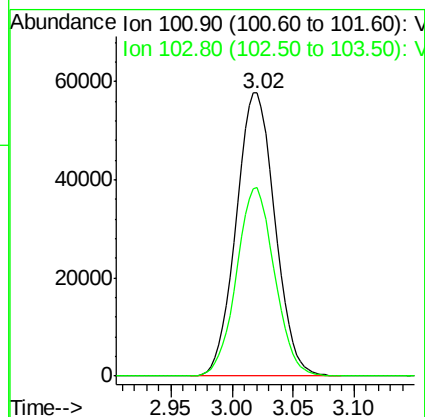
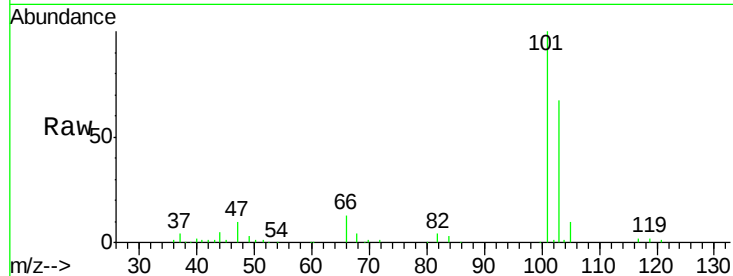
Trichlorofluoromethane
Concen: 20.767 ug/l
RT: 3.02 min Scan# 388
Delta R.T. 0.00 min
Lab File: VN055037.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	52.5	78.7

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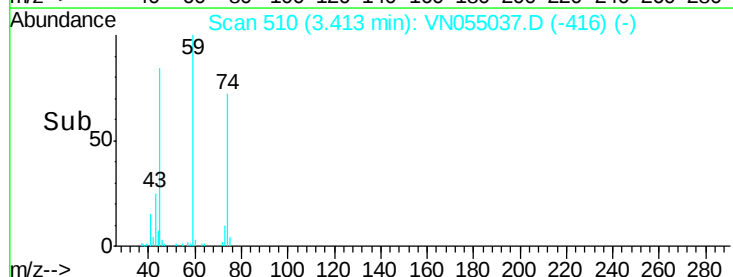
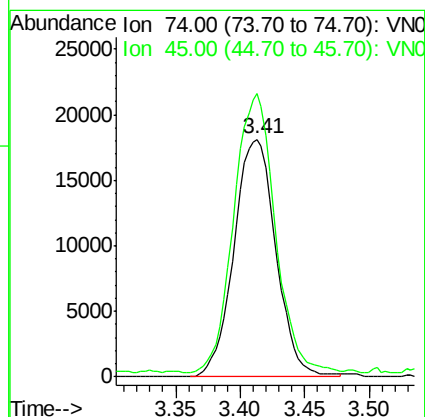
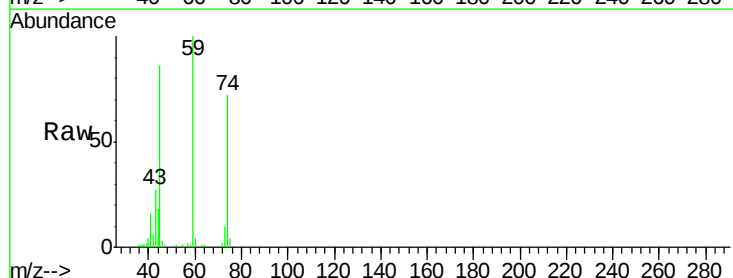
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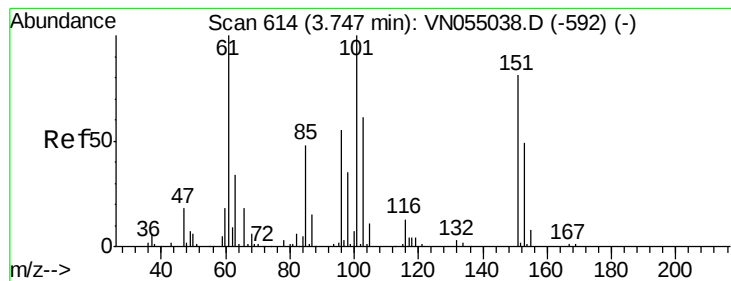


#8

Diethyl Ether
Concen: 21.296 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN055037.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.2	55.7	167.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.845 ug/l

RT: 3.75 min Scan# 614

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

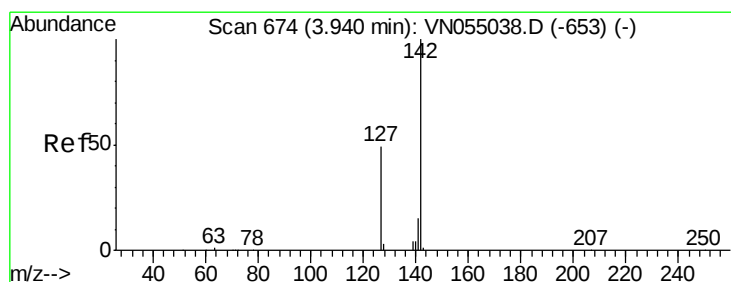
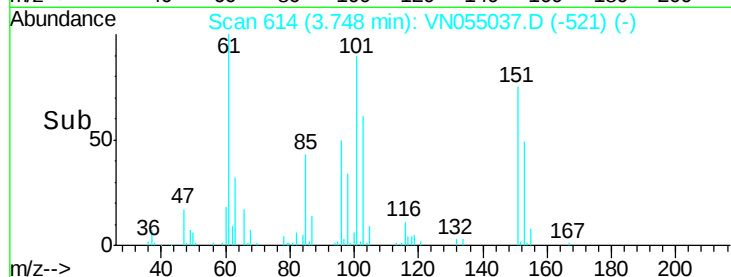
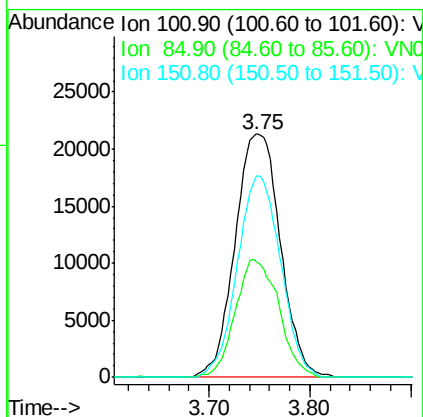
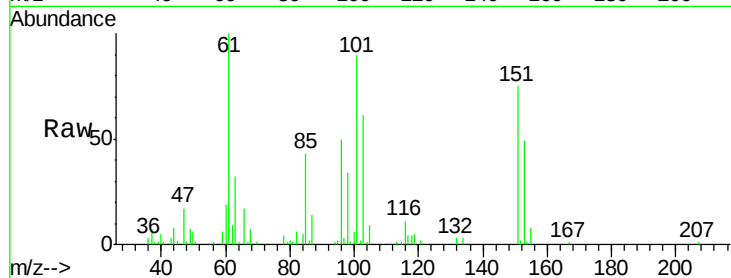
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	66522
Ion Ratio	Lower	Upper	
101	100		
85	46.4	36.9	55.3
151	79.1	64.4	96.6

Manual Integrations
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#10

Methyl Iodide

Concen: 25.771 ug/l

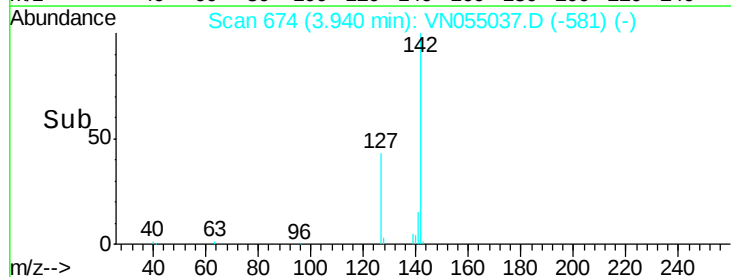
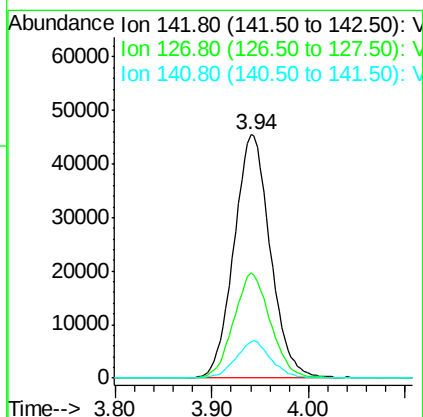
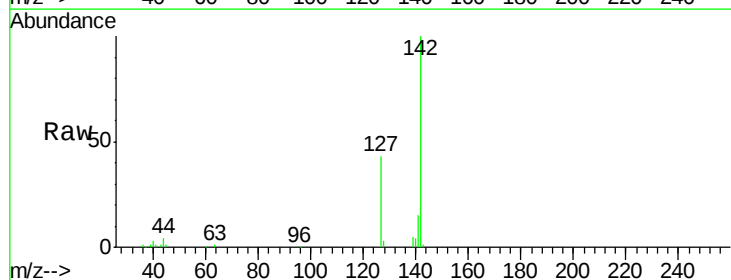
RT: 3.94 min Scan# 674

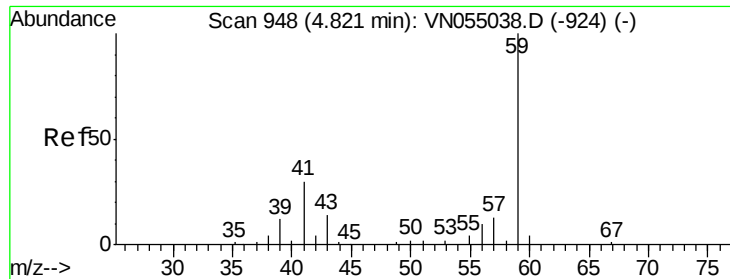
Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion:	142	Resp:	118611
Ion Ratio	Lower	Upper	
142	100		
127	43.6	37.9	56.9
141	14.8	11.8	17.8





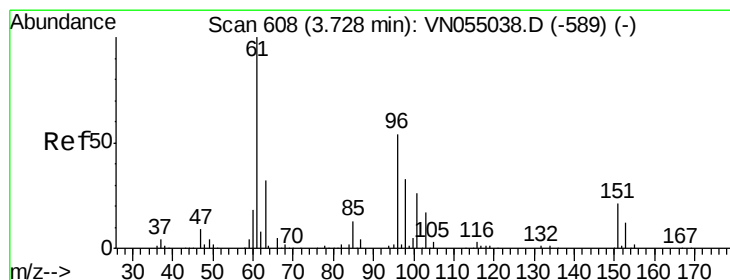
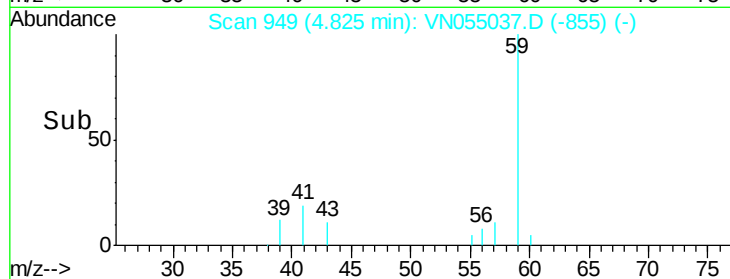
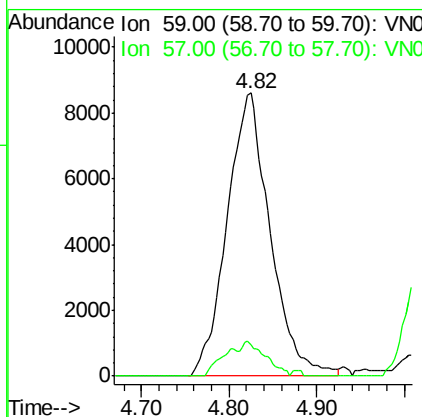
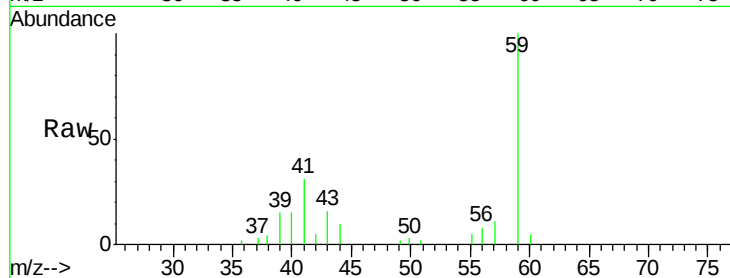
#11
Tert butyl alcohol
Concen: 93.603 ug/l
RT: 4.82 min Scan# 949
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.8	8.3	12.5#

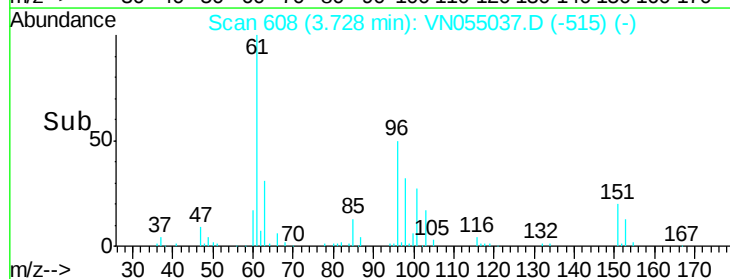
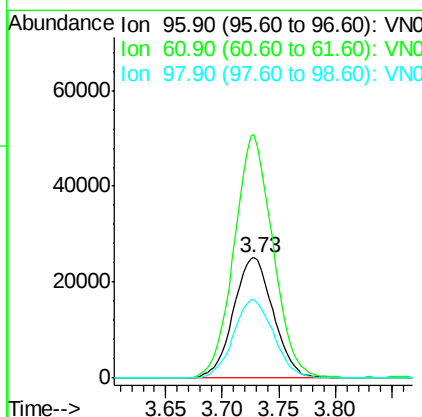
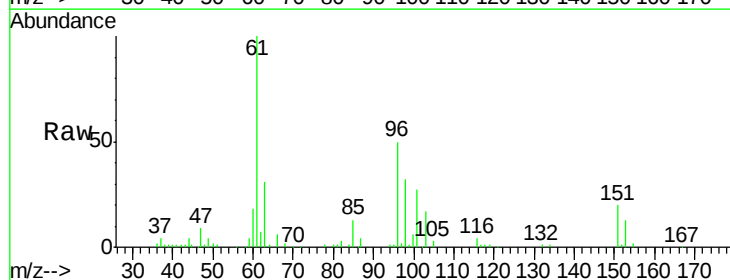
Manual Integrations
APPROVED

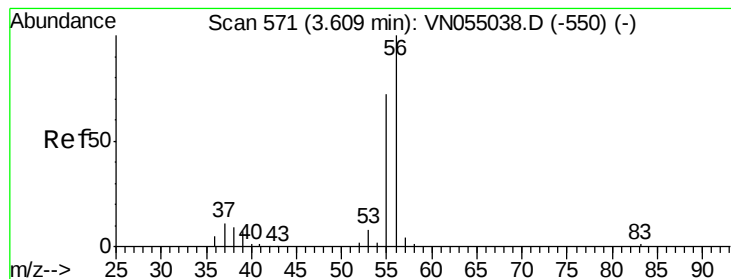
MMDadoda
4/17/2019 1:49:01 PM



#12
1,1-Dichloroethene
Concen: 19.633 ug/l
RT: 3.73 min Scan# 608
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	201.8	154.2	231.4
98	64.6	52.9	79.3





#13

Acrolein

Concen: 94.860 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 35932

Ion Ratio Lower Upper

56 100

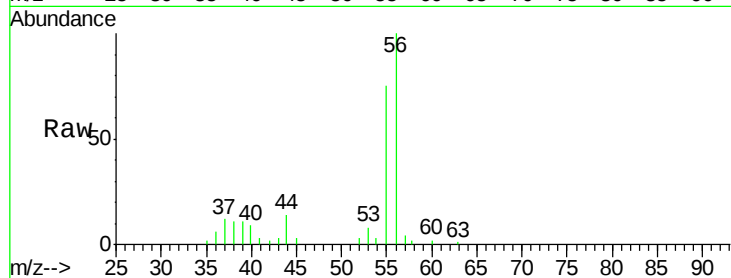
55 76.3 59.5 89.3

Manual Integrations

APPROVED

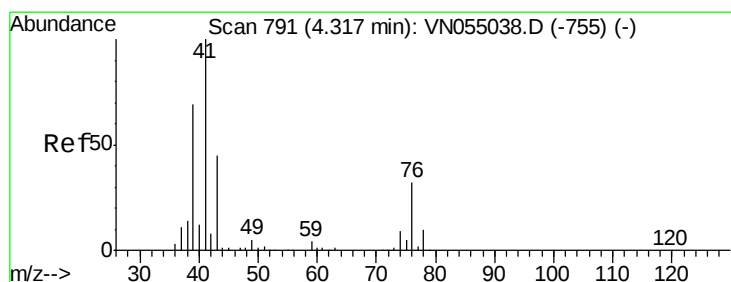
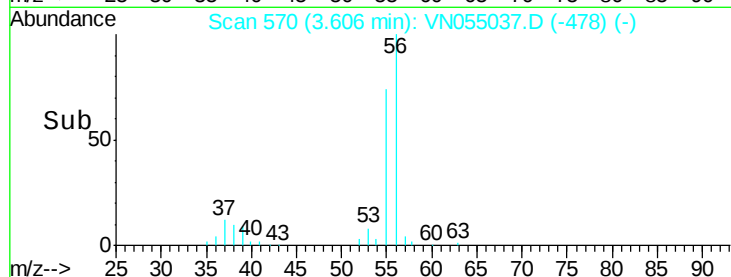
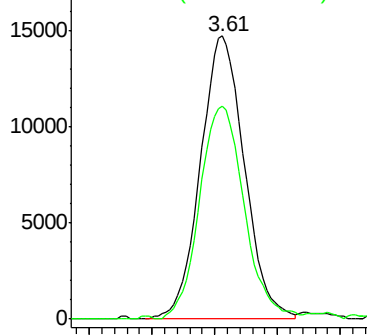
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 20.503 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

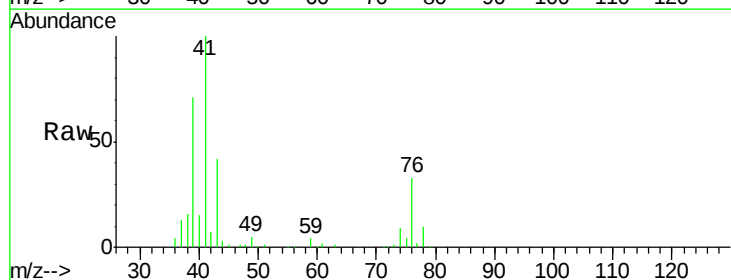
Tgt Ion: 41 Resp: 157398

Ion Ratio Lower Upper

41 100

39 67.0 52.7 79.1

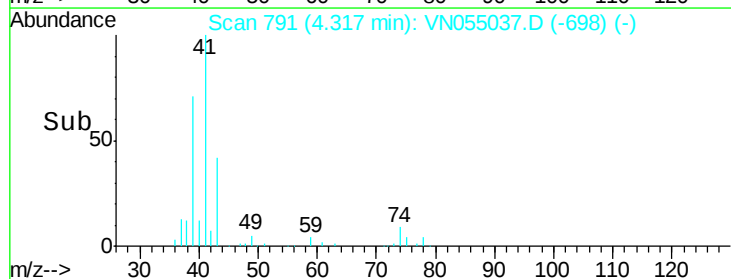
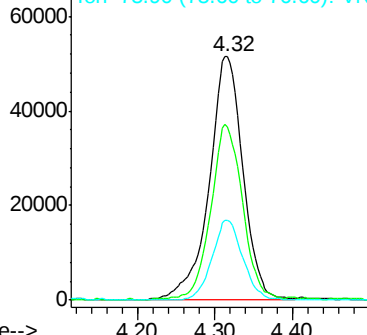
76 29.7 23.2 34.8

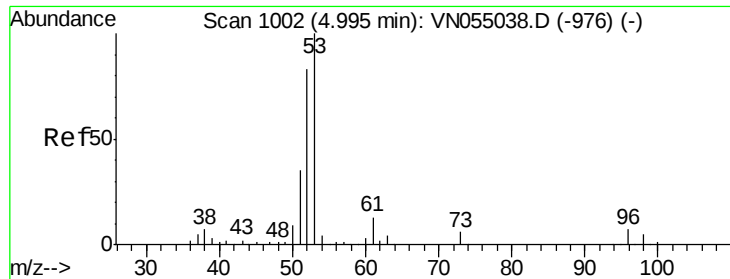


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 105.862 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

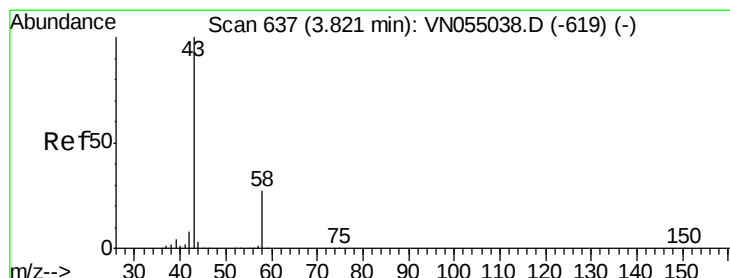
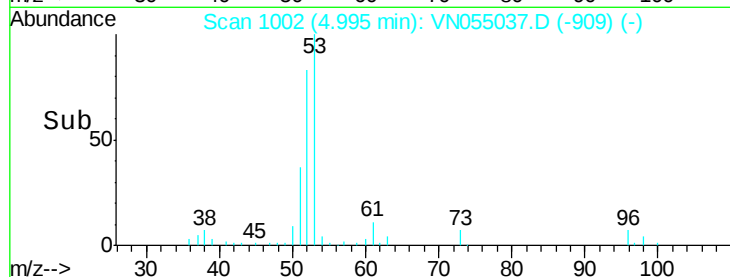
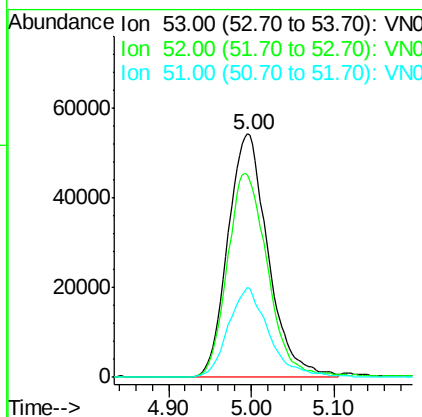
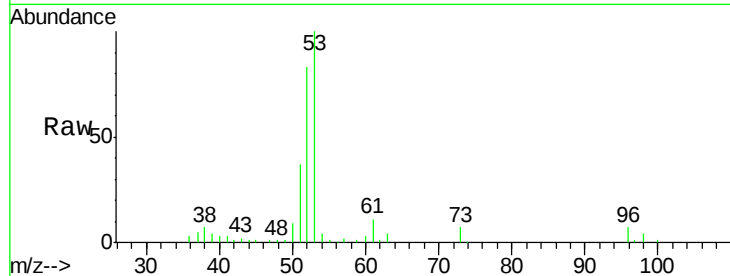
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	183233
Ion	Ratio	Lower	Upper
53	100		
52	83.7	65.9	98.9
51	37.4	29.7	44.5

Manual Integrations
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4/17/2019 1:49:01 PM



#16

Acetone

Concen: 105.663 ug/l

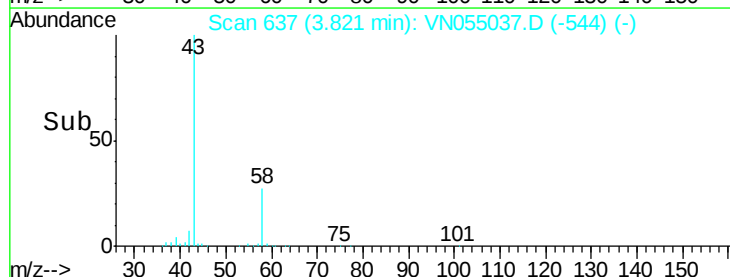
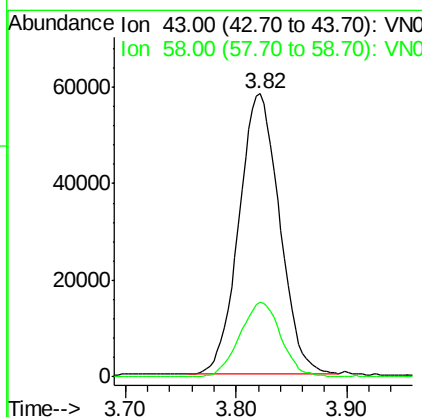
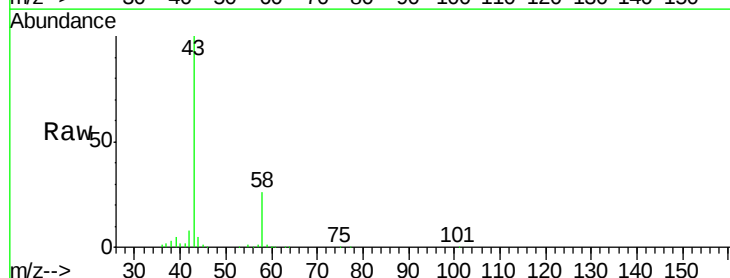
RT: 3.82 min Scan# 637

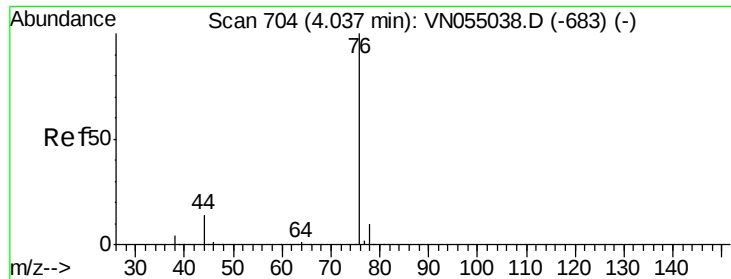
Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion:	43	Resp:	148032
Ion	Ratio	Lower	Upper
43	100		
58	26.7	20.9	31.3





#17

Carbon Disulfide

Concen: 19.683 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 201429

Ion Ratio Lower Upper

76 100

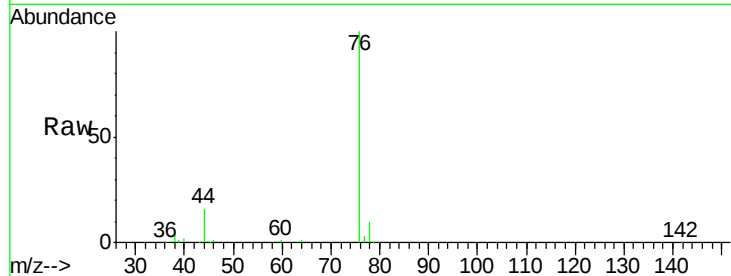
78 9.9 7.2 10.8

Manual Integrations

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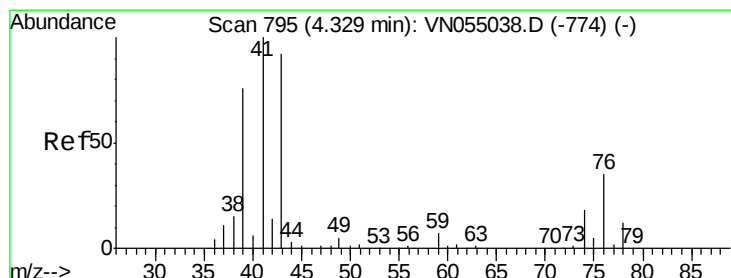
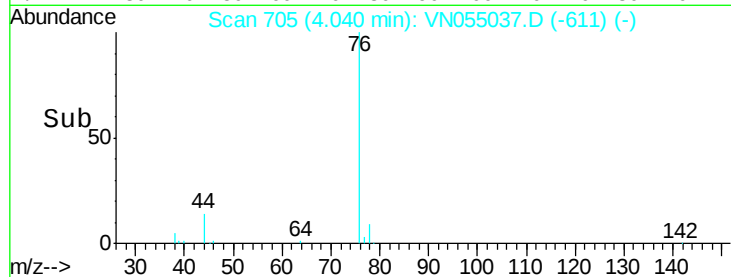
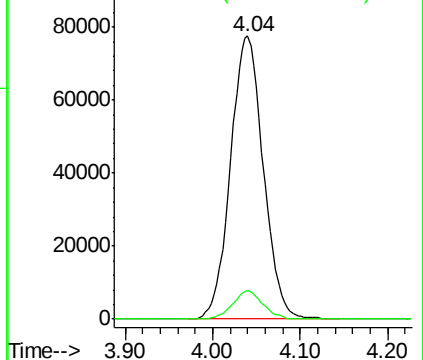
MMDadoda

4/17/2019 1:49:01 PM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 19.844 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055037.D

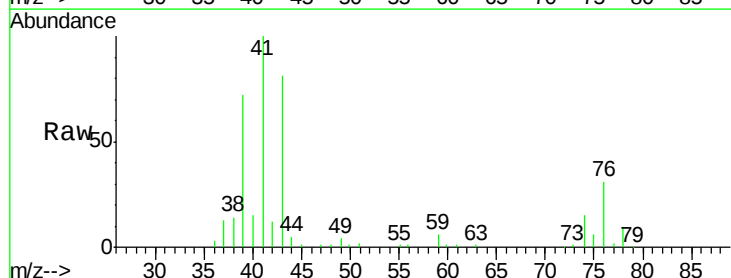
Acq: 15 Apr 2019 10:42

Tgt Ion: 43 Resp: 86178

Ion Ratio Lower Upper

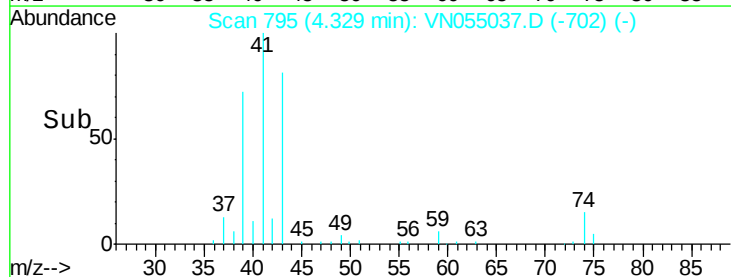
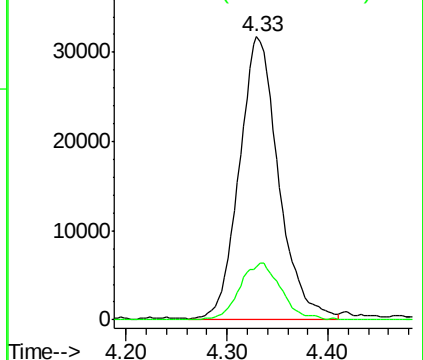
43 100

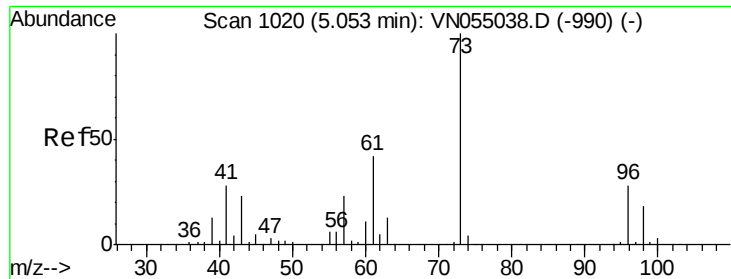
74 21.0 16.1 24.1



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





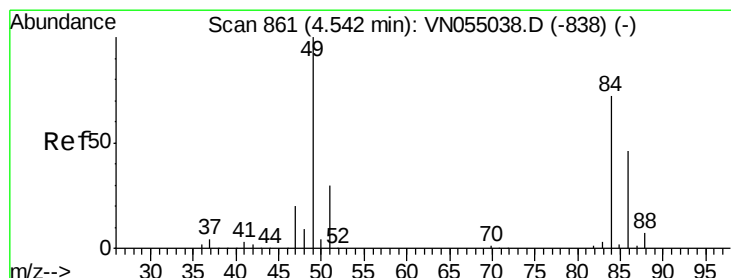
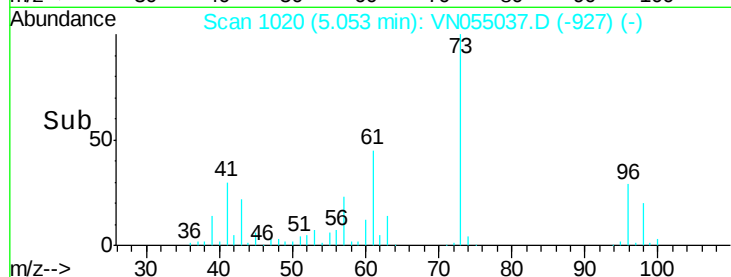
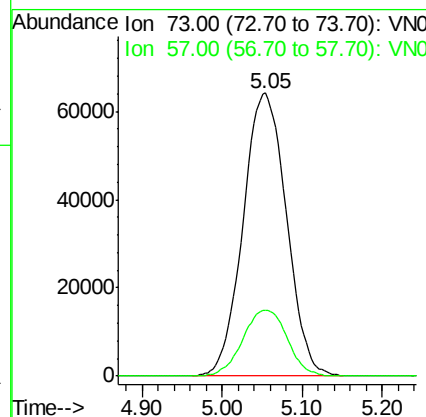
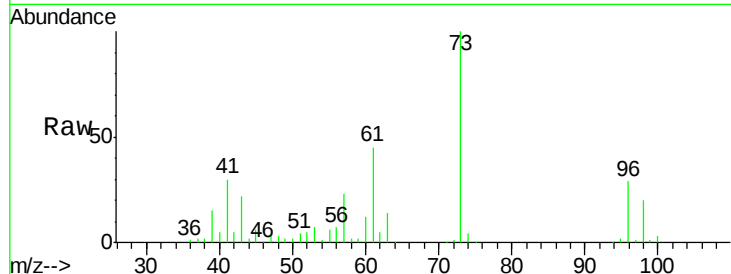
#19
Methvl tert-butvl Ether
Concen: 21.107 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 236952
Ion Ratio Lower Upper
73 100
57 23.3 19.0 28.4

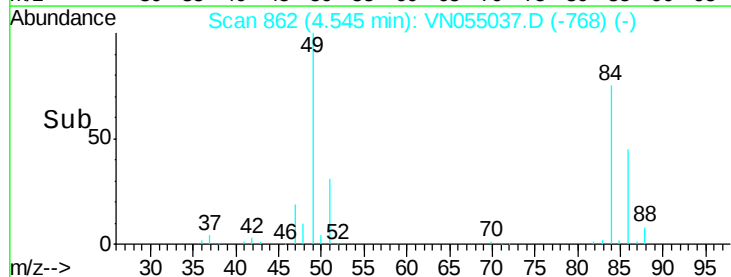
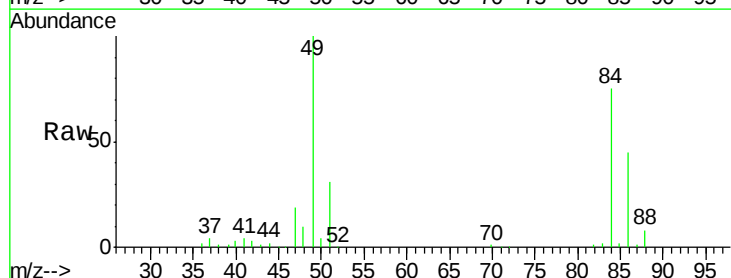
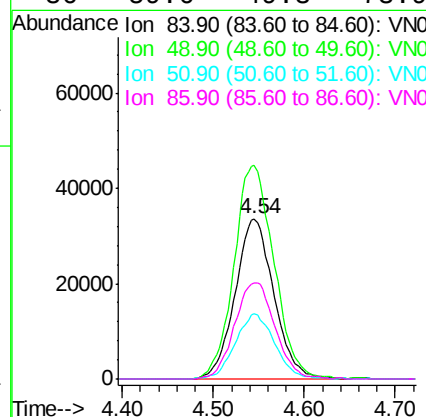
Manual Integrations
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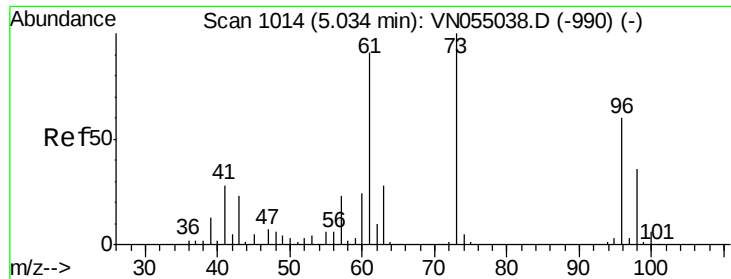
MMDadoda
4/17/2019 1:49:01 PM



#20
Methylene Chloride
Concen: 19.321 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion: 84 Resp: 99192
Ion Ratio Lower Upper
84 100
49 133.2 109.4 164.2
51 41.0 32.2 48.4
86 59.6 49.3 73.9





#21

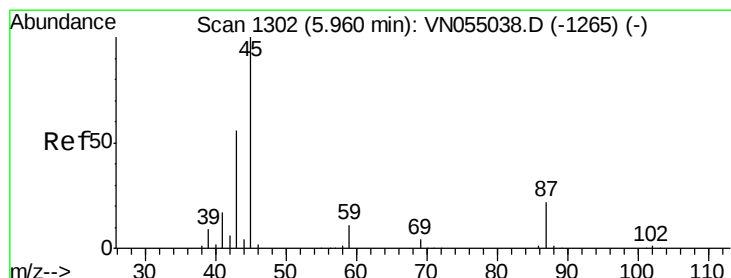
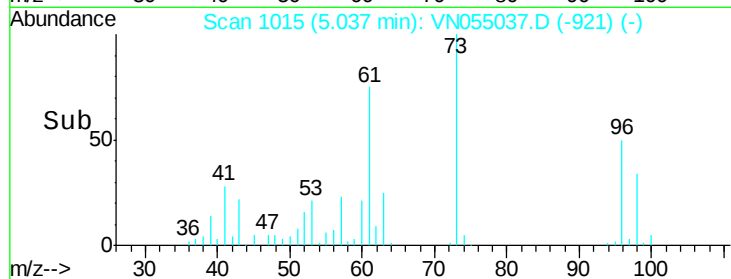
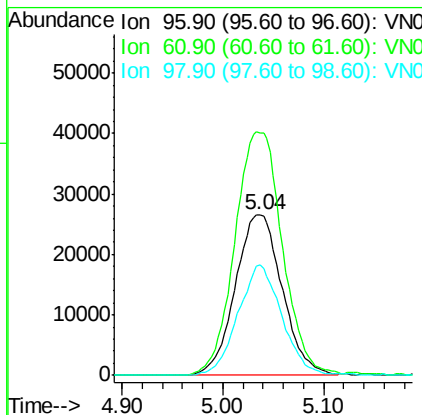
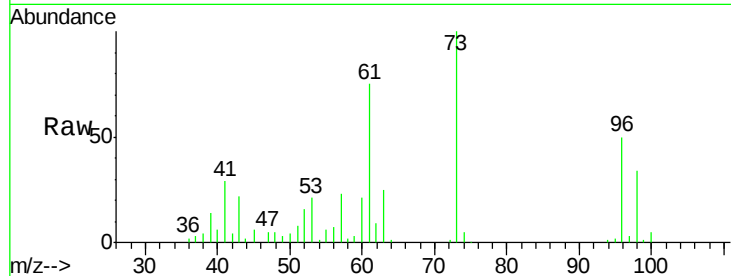
trans-1,2-Dichloroethene
Concen: 20.688 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.7	114.9	172.3
98	69.0	48.4	72.6

Manual Integrations
APPROVED

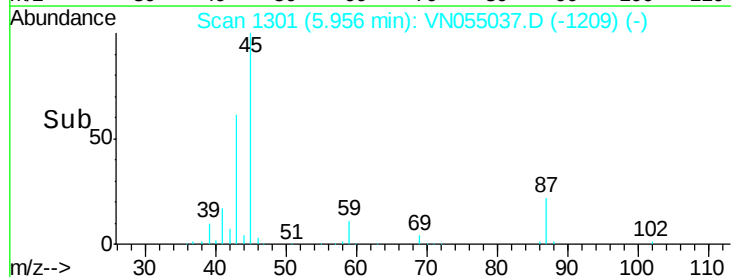
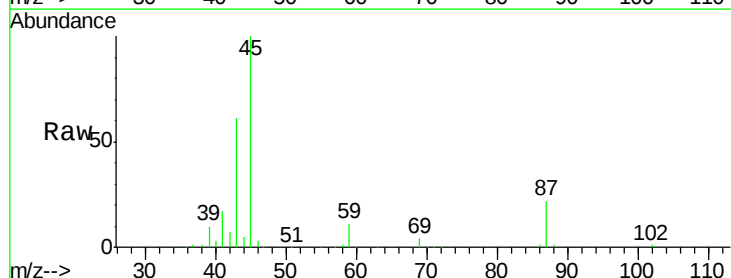
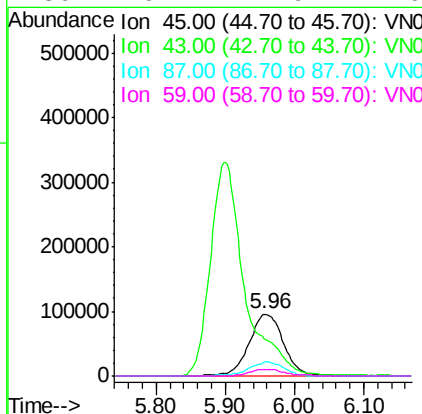
MMDadoda
4/17/2019 1:49:01 PM

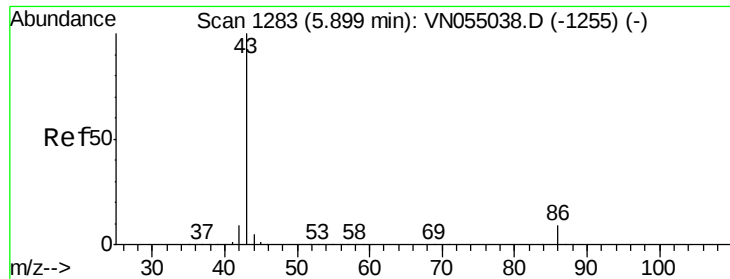


#22

Diisopropyl ether
Concen: 21.292 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. -0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.6	44.8	67.2
87	21.9	18.9	28.3
59	10.4	7.9	11.9





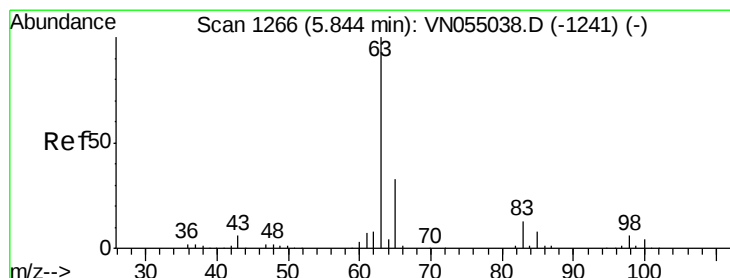
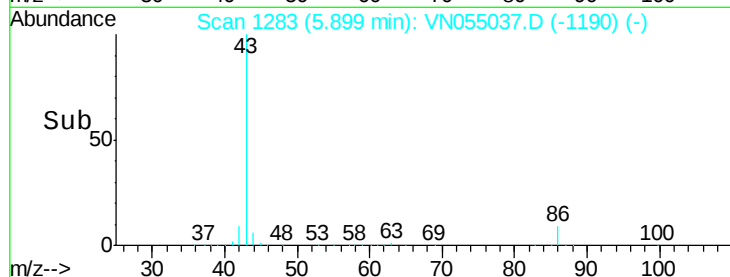
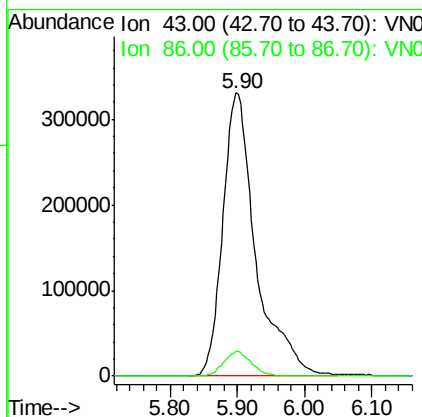
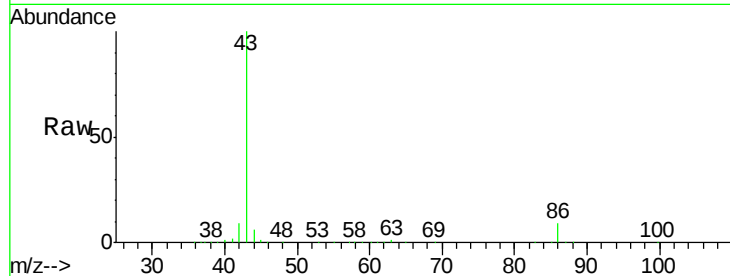
#23
 Vinyl Acetate
 Concen: 104.086 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 1133161
 Ion Ratio Lower Upper
 43 100
 86 8.8 7.0 10.4

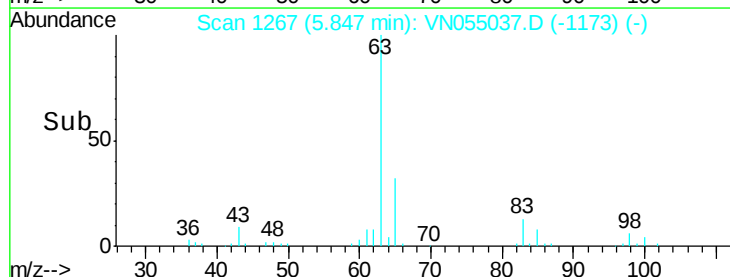
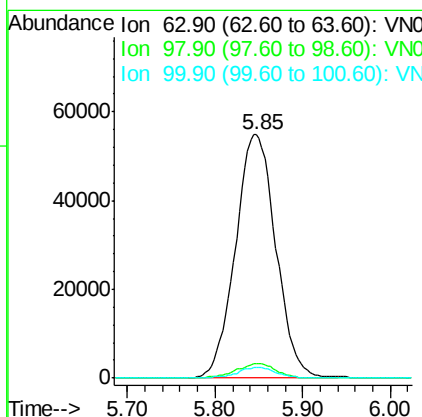
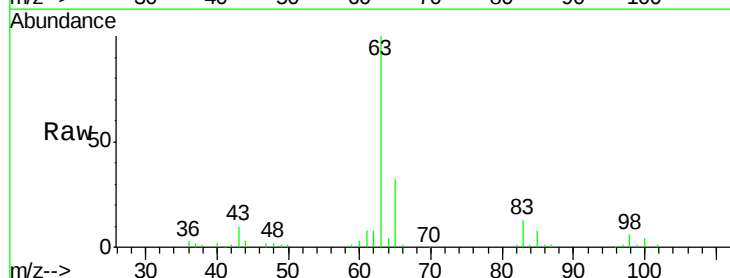
Manual Integrations
 APPROVED

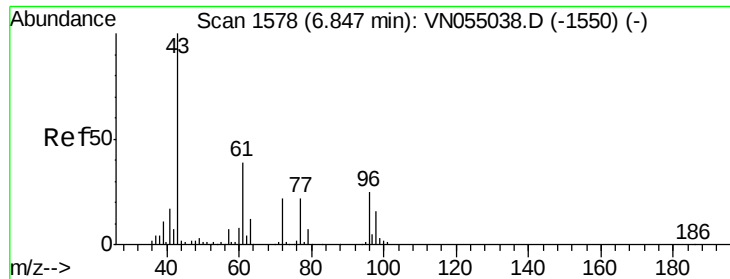
MMDadoda
 4/17/2019 1:49:01 PM



#24
 1,1-Dichloroethane
 Concen: 20.894 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Tgt Ion: 63 Resp: 175646
 Ion Ratio Lower Upper
 63 100
 98 5.9 2.8 8.4
 100 4.5 2.0 5.8





#25

2-Butanone

Concen: 107.704 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tot Ion: 43 Resp: 232395

Ion Ratio Lower Upper

43 100

72 22.3 18.1 27.1

Instrument :

MSVOA_N

ClientSampled :

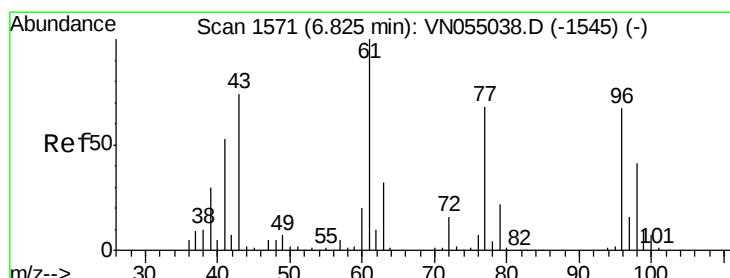
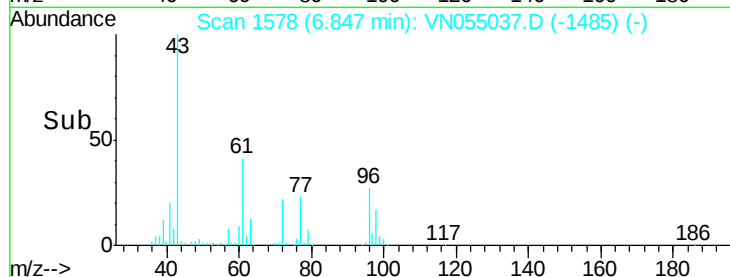
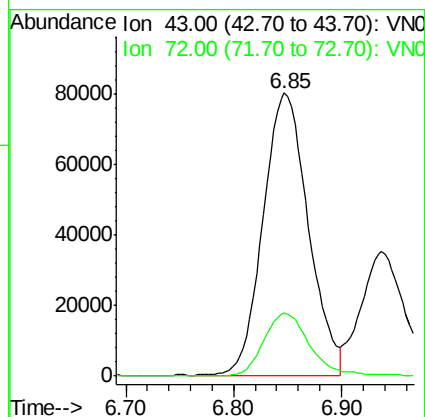
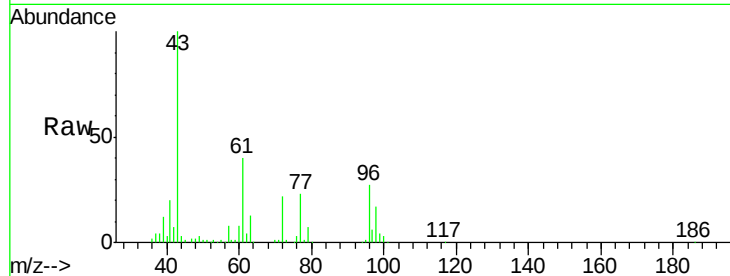
VSTDIC020

Manual Integrations

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4/17/2019 1:49:01 PM



#26

2,2-Dichloropropane

Concen: 20.134 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN055037.D

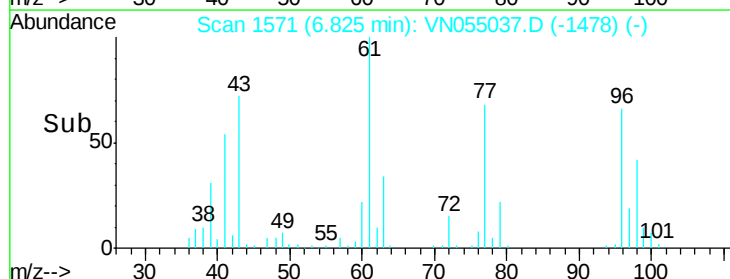
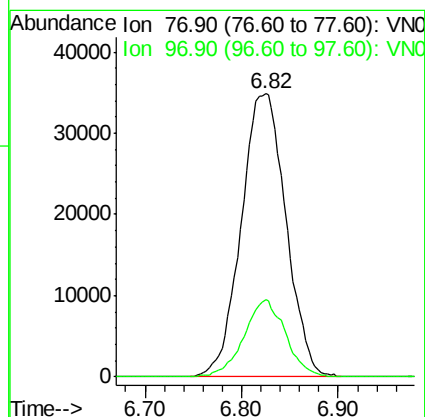
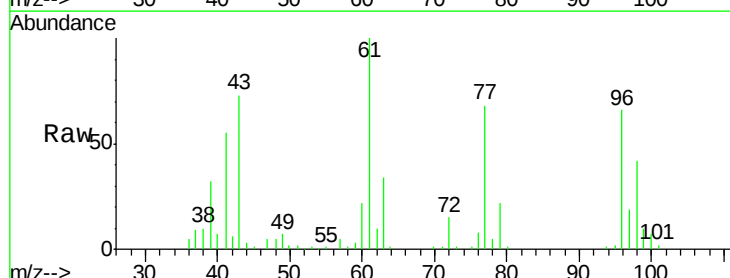
Acq: 15 Apr 2019 10:42

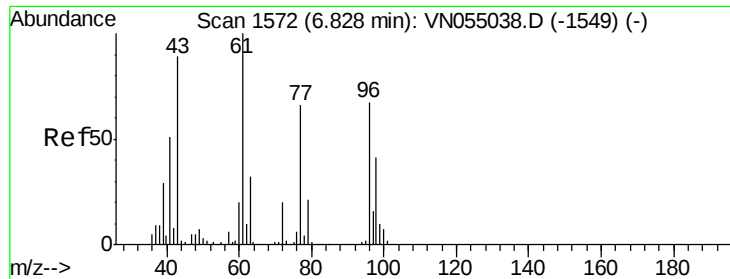
Tgt Ion: 77 Resp: 111982

Ion Ratio Lower Upper

77 100

97 25.3 11.3 33.9





#27

cis-1,2-Dichloroethene

Concen: 21.018 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

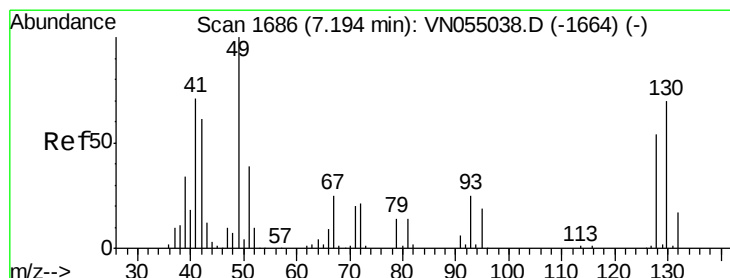
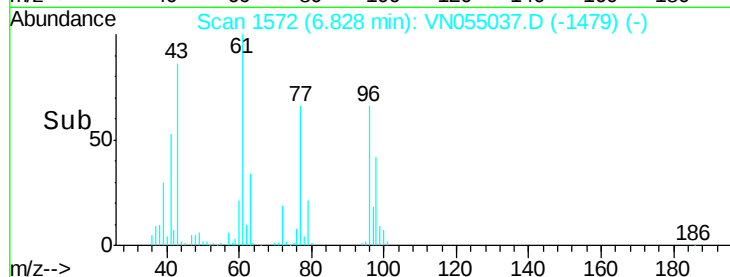
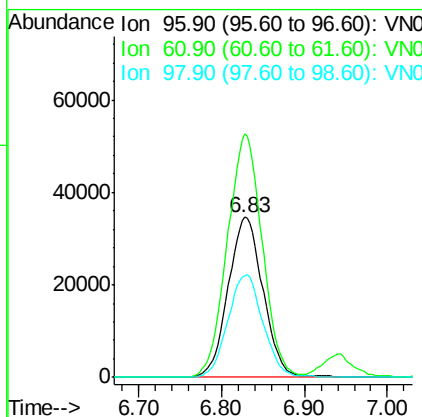
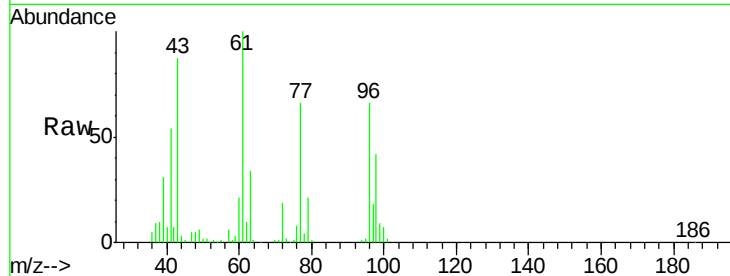
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	101061
Ion	Ratio	Lower	Upper
96	100		
61	152.3	0.0	311.0
98	65.0	0.0	127.4

Manual Integrations
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#28

Bromochloromethane

Concen: 22.185 ug/l

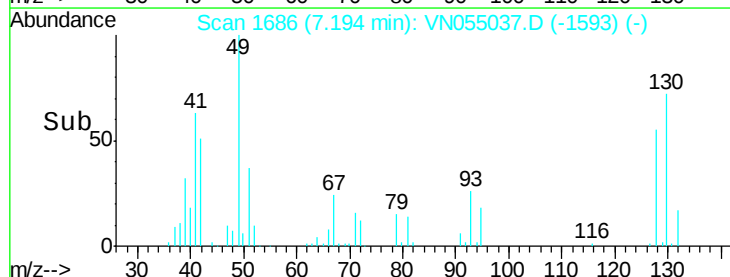
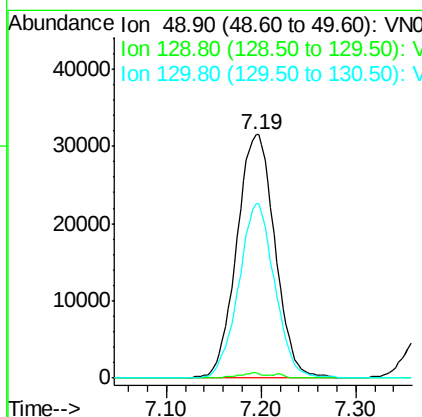
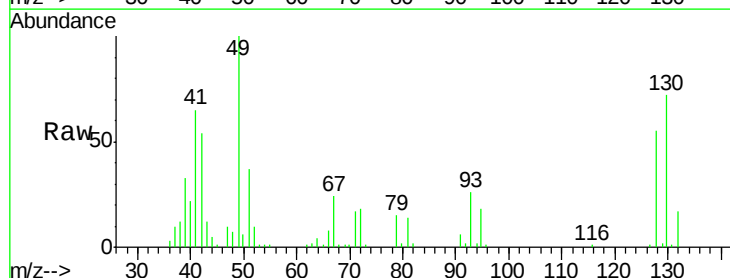
RT: 7.19 min Scan# 1686

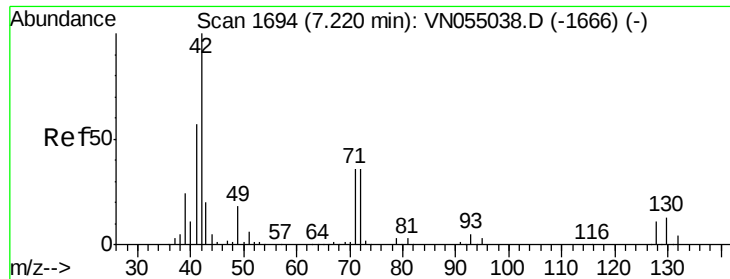
Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion:	49	Resp:	88485
Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	2.0
130	67.4	53.4	80.2





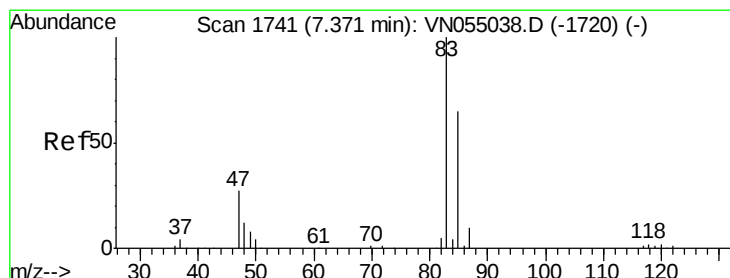
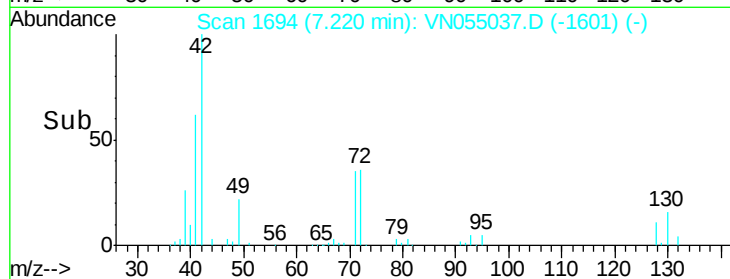
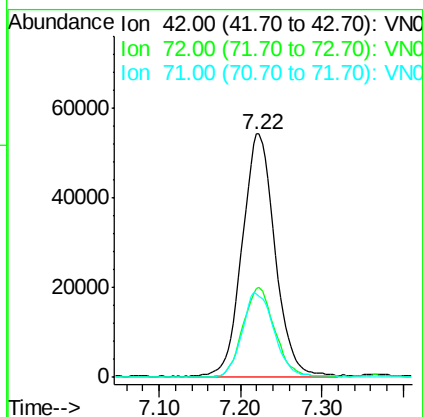
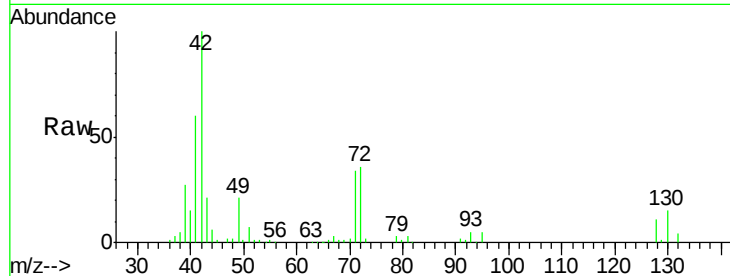
#29
Tetrahydrofuran
Concen: 105.919 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.2	29.4	44.0
71	34.5	27.8	41.6

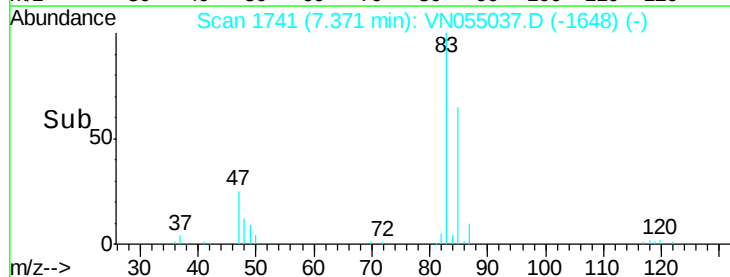
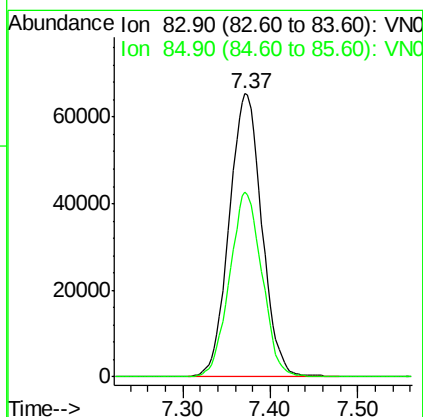
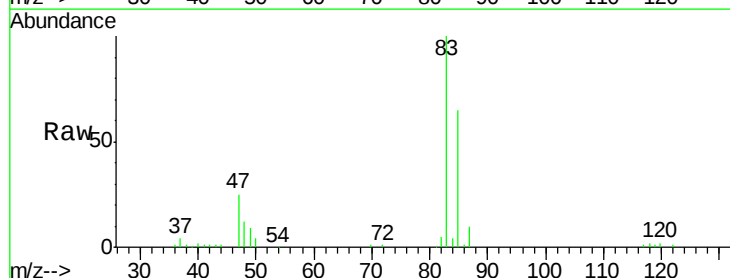
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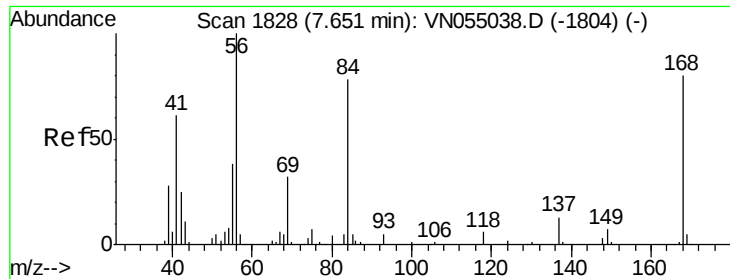
MMDadoda
4/17/2019 1:49:01 PM



#30
Chloroform
Concen: 21.118 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.8	77.6





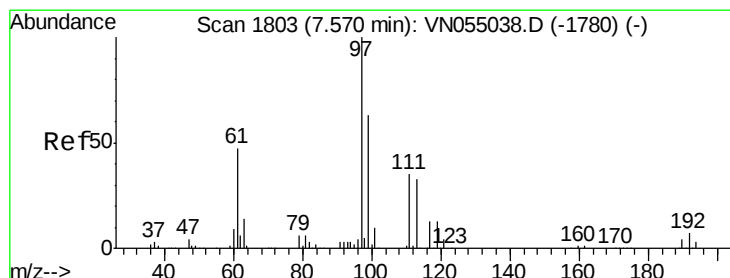
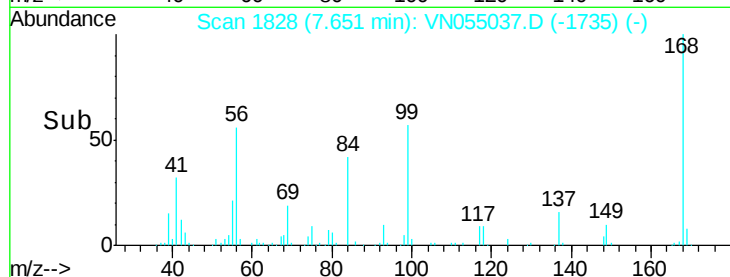
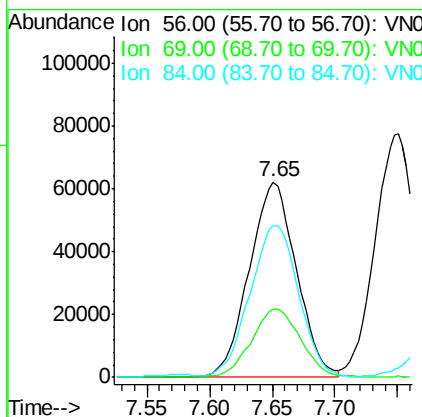
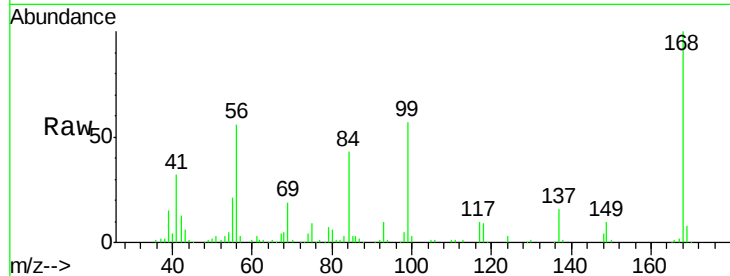
#31
Cyclohexane
Concen: 17.553 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.8	24.5	36.7
84	76.4	62.9	94.3

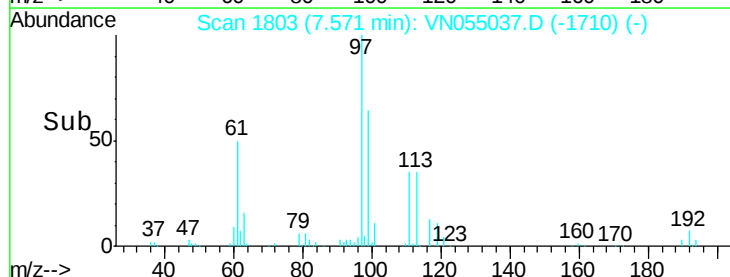
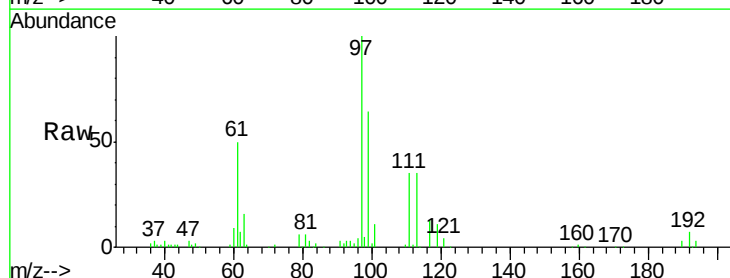
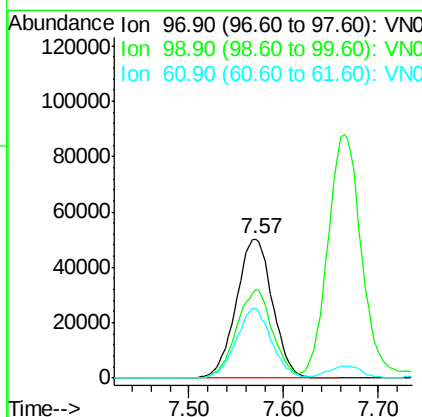
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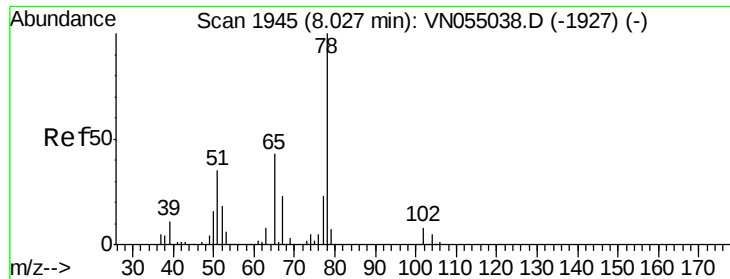
MMDadoda
4/17/2019 1:49:01 PM



#32
1,1,1-Trichloroethane
Concen: 20.925 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.6	77.4
61	48.7	38.3	57.5





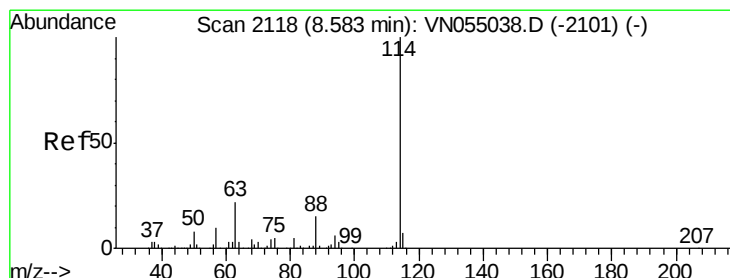
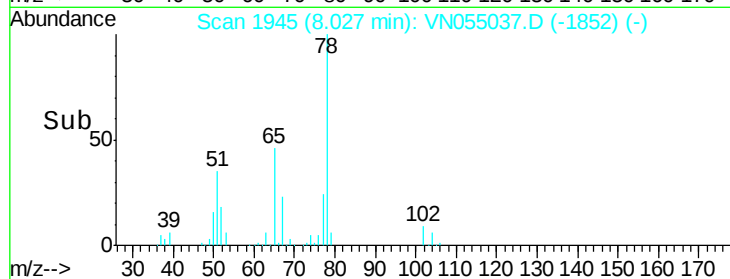
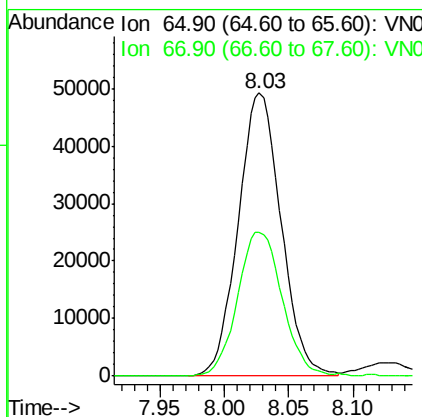
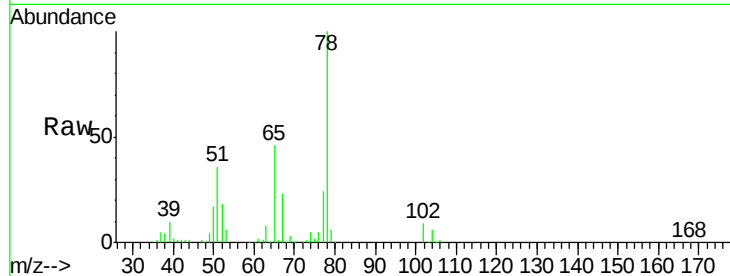
#33
 1,2-Dichloroethane-d4
 Concen: 22.377 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	114117		
67	53.2	0.0	106.4	

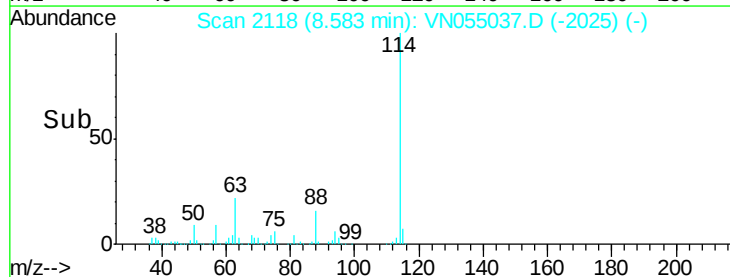
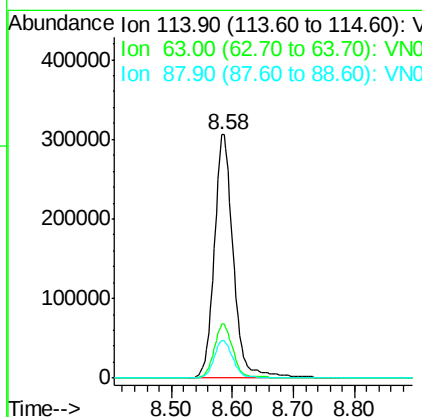
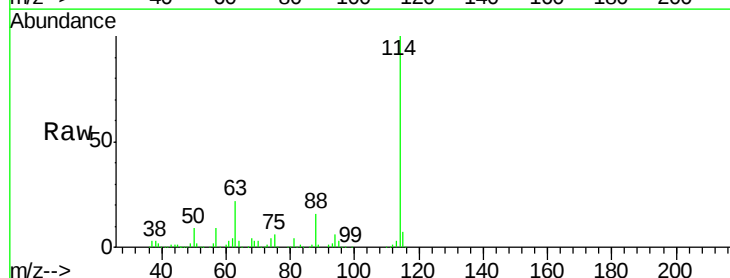
Manual Integrations
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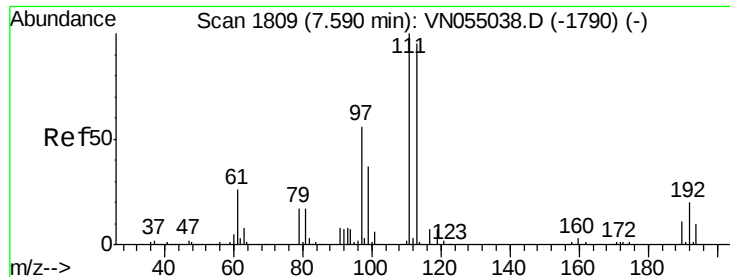
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	664667		
63	22.1	0.0	45.2	
88	15.6	0.0	31.8	





#35

Dibromofluoromethane

Concen: 21.277 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

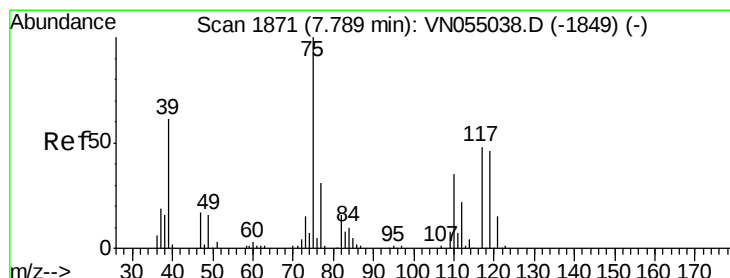
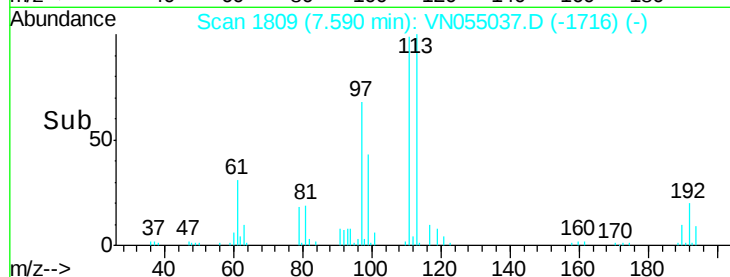
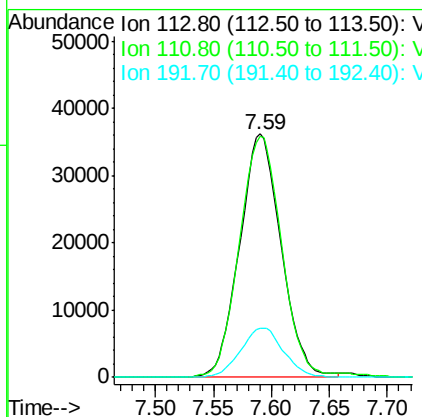
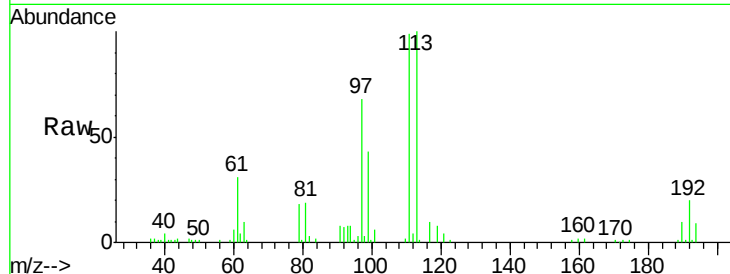
ClientSampleId :

VSTDIC020

Tot Ion:	113	Resp:	90154
Ion	Ratio	Lower	Upper
113	100		
111	100.5	82.1	123.1
192	21.0	16.5	24.7

Manual Integrations
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4/17/2019 1:49:01 PM



#36

1,1-Dichloropropene

Concen: 19.841 ug/l

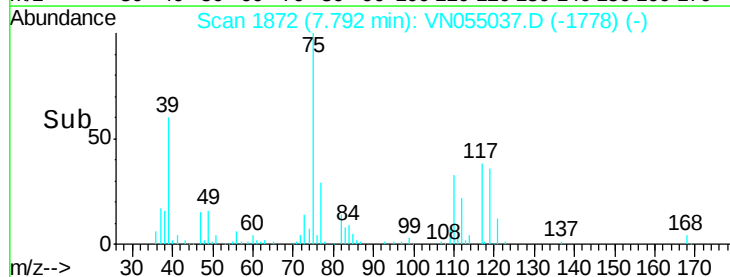
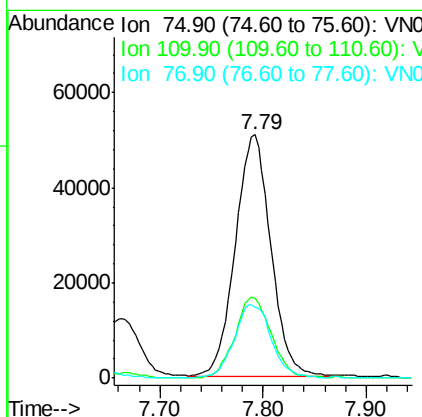
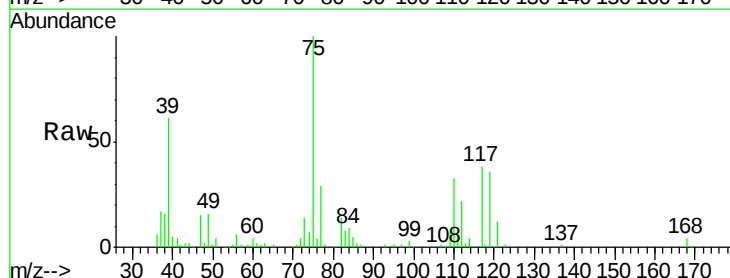
RT: 7.79 min Scan# 1872

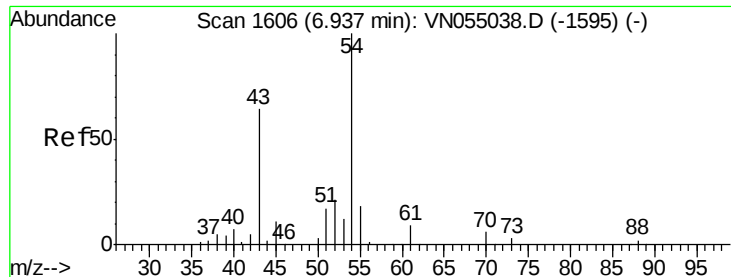
Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion:	75	Resp:	121878
Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.5	52.5
77	31.8	24.9	37.3





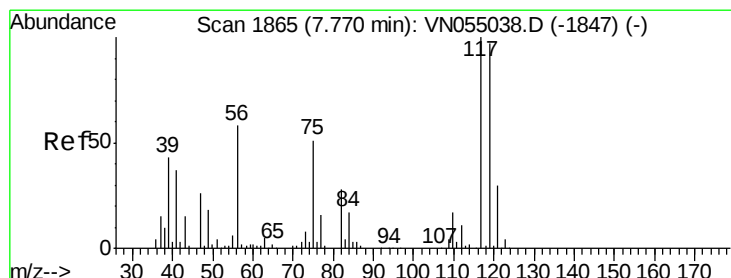
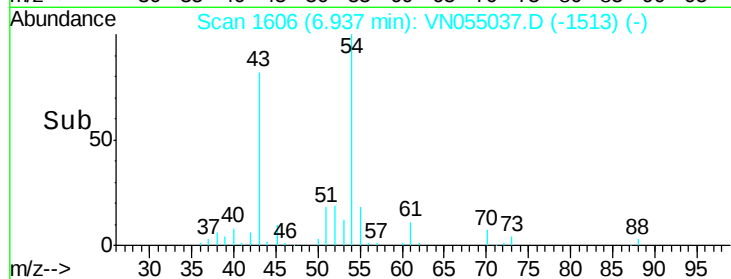
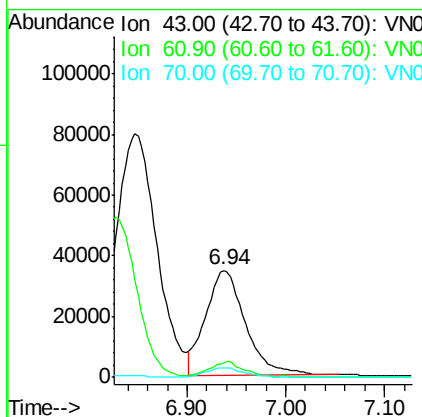
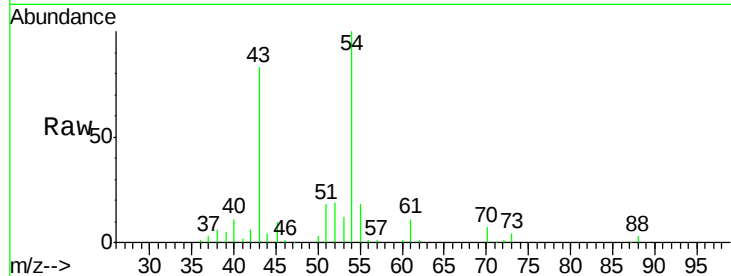
#37
Ethyl Acetate
Concen: 21.204 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	43	61	70
Resp	97783		
Ratio	100	11.8	8.6
Lower		10.0	7.1
Upper		15.0	10.7

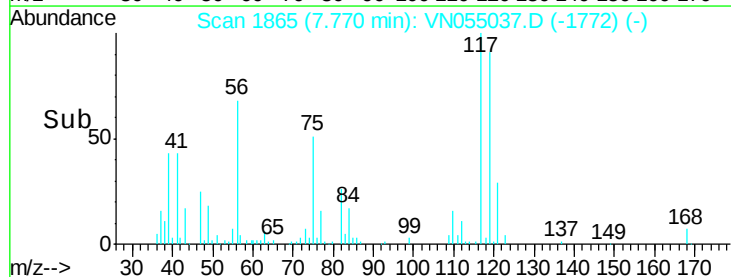
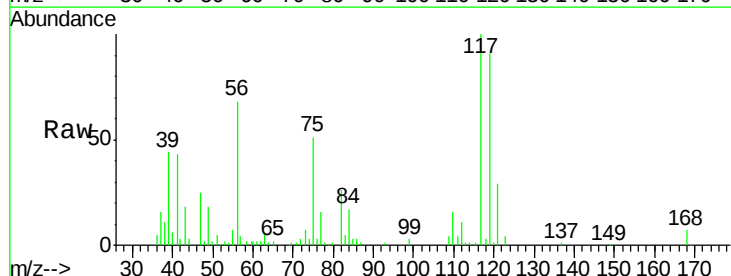
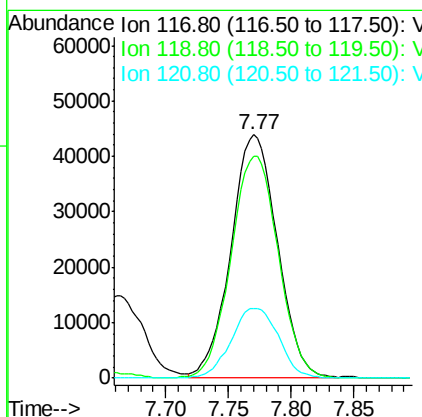
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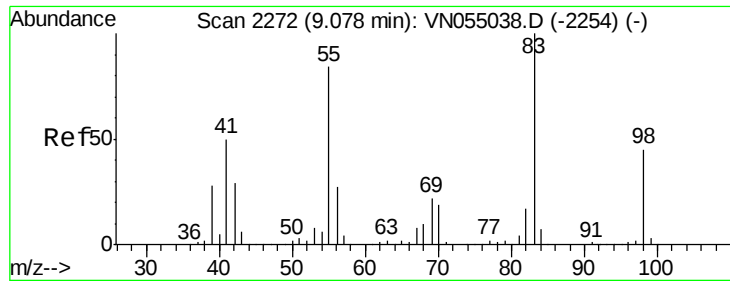
MMDadoda
4/17/2019 1:49:01 PM



#38
Carbon Tetrachloride
Concen: 19.405 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	117	119	121
Resp	112202		
Ratio	100	91.5	28.9
Lower		76.3	23.9
Upper		114.5	35.9





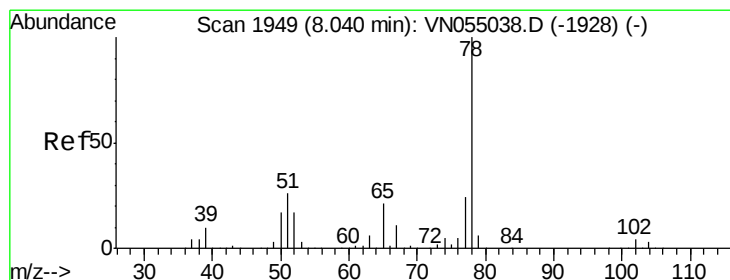
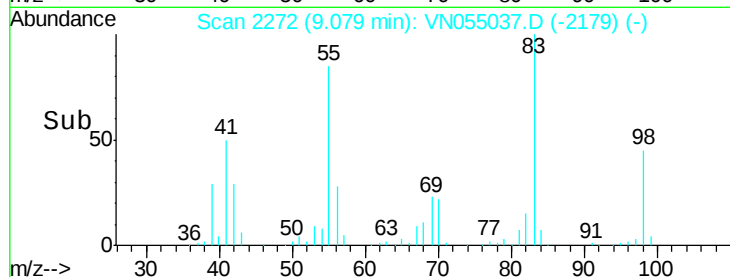
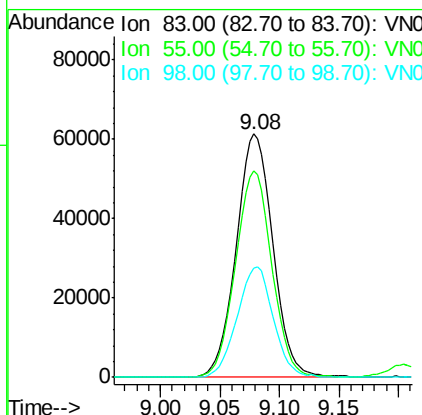
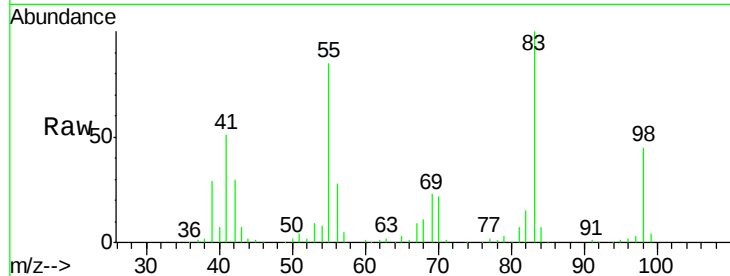
#39
Methvlcvclohexane
Concen: 18.634 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	83	Resp	131047
Ion Ratio	Lower	Upper	
83	100		
55	84.8	67.0	100.4
98	44.7	35.6	53.4

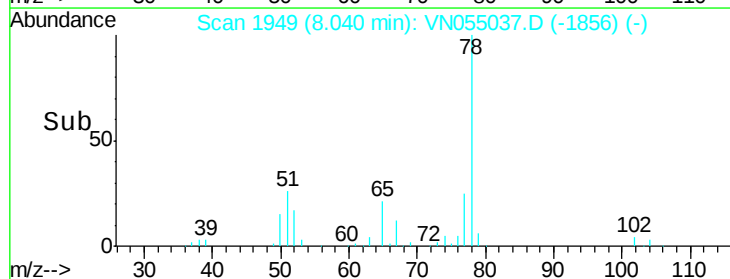
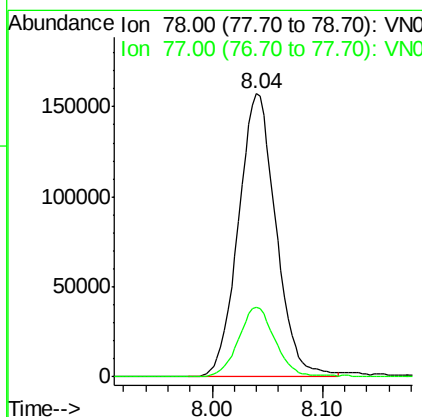
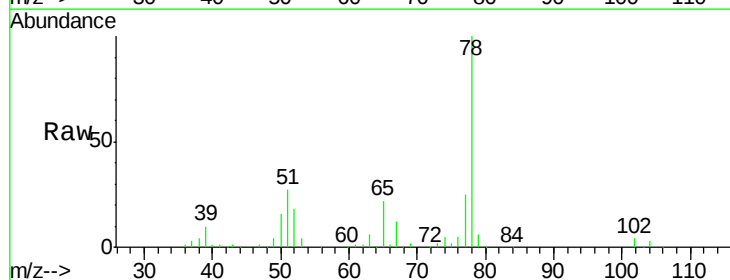
Manual Integrations
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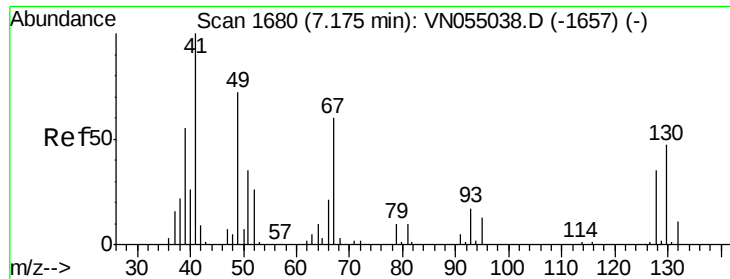
MMDadoda
4/17/2019 1:49:01 PM



#40
Benzene
Concen: 20.039 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	78	Resp	372163
Ion Ratio	Lower	Upper	
78	100		
77	24.8	18.8	28.2





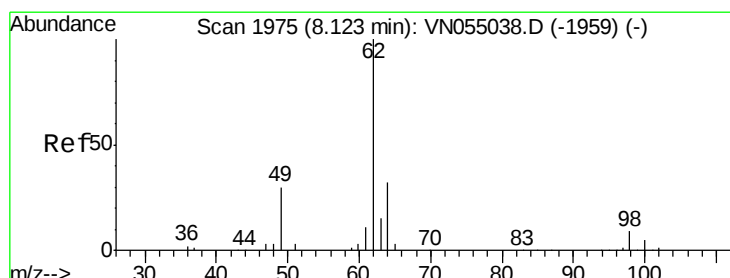
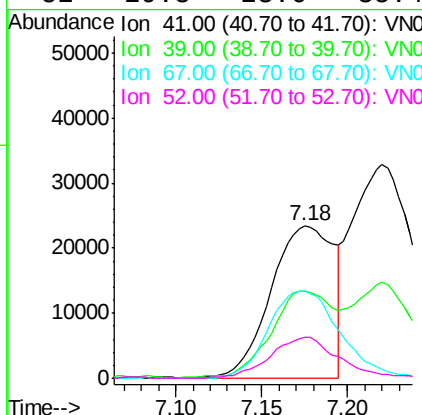
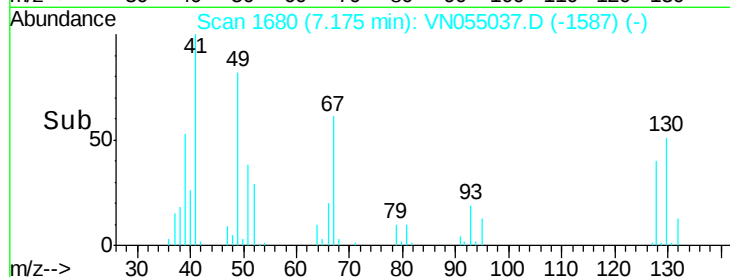
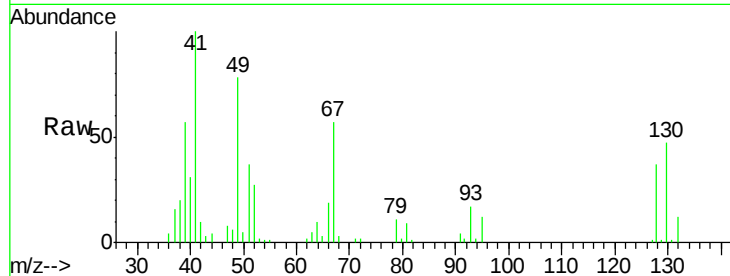
#41
Methacrylonitrile
Concen: 20.958 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:	41	Resp:	59471
Ion	Ratio	Lower	Upper
41	100		
39	55.9	45.6	68.4
67	65.6	57.0	85.6
52	29.8	23.6	35.4

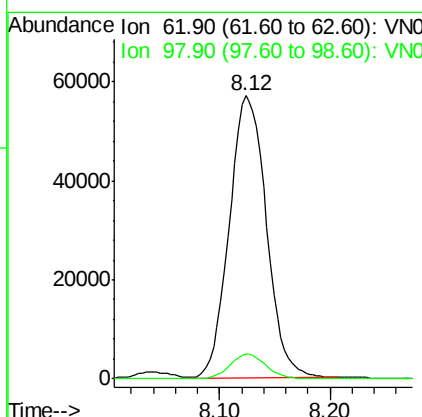
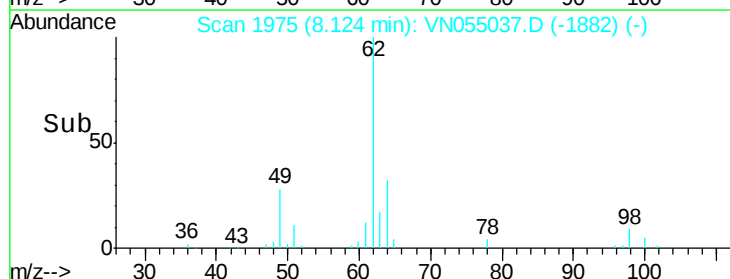
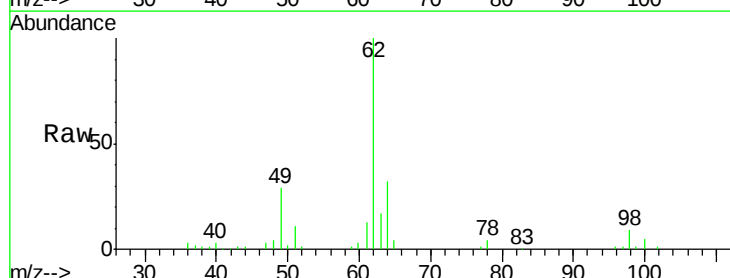
Manual Integrations
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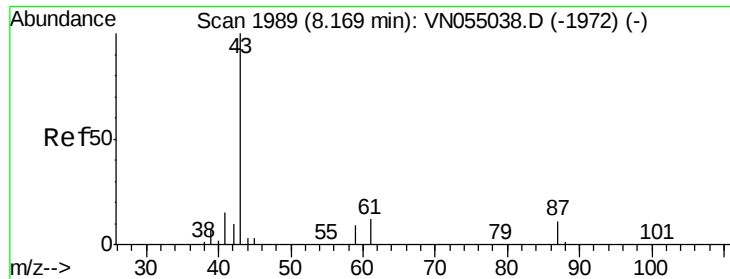
MMDadoda
4/17/2019 1:49:01 PM



#42
1,2-Dichloroethane
Concen: 20.339 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion:	62	Resp:	132883
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	17.4





#43

Isopropyl Acetate

Concen: 20.004 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

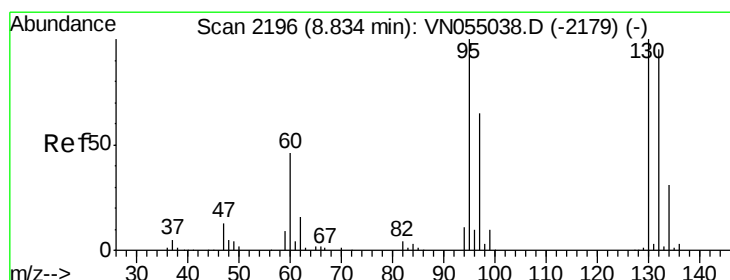
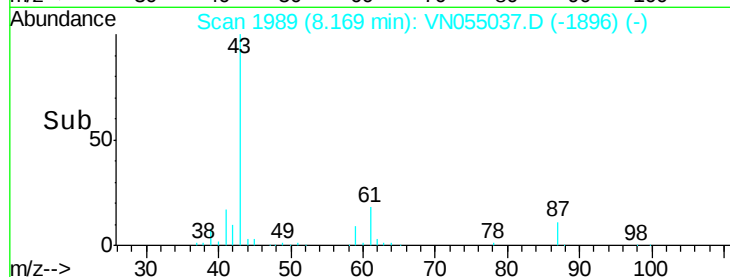
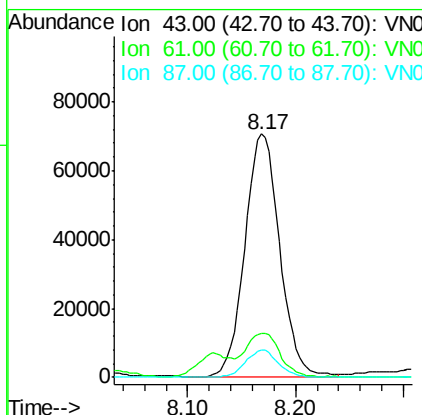
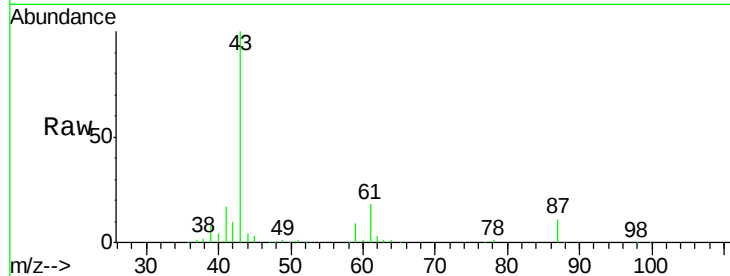
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	157741
Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.3	21.5
87	10.7	8.6	13.0

Manual Integrations
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4/17/2019 1:49:01 PM



#44

Trichloroethene

Concen: 19.958 ug/l

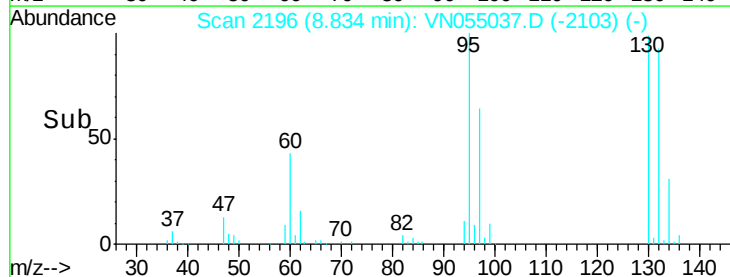
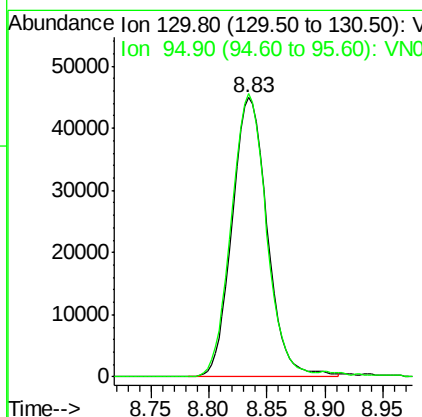
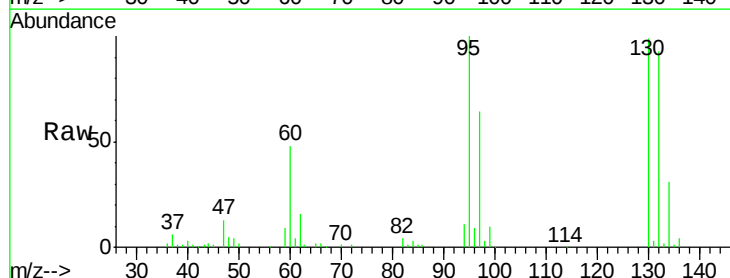
RT: 8.83 min Scan# 2196

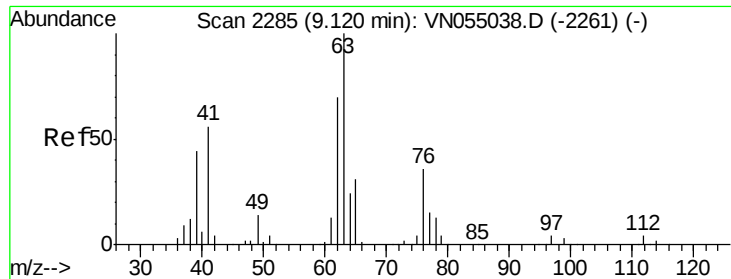
Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion:	130	Resp:	94724
Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	201.6





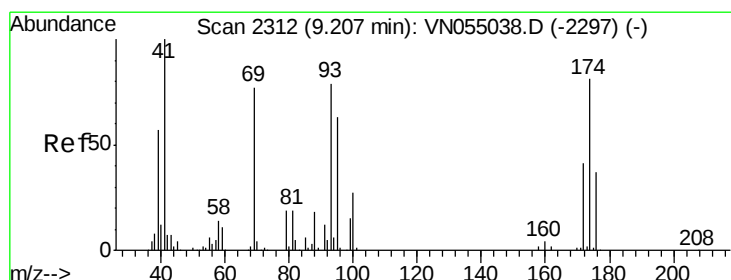
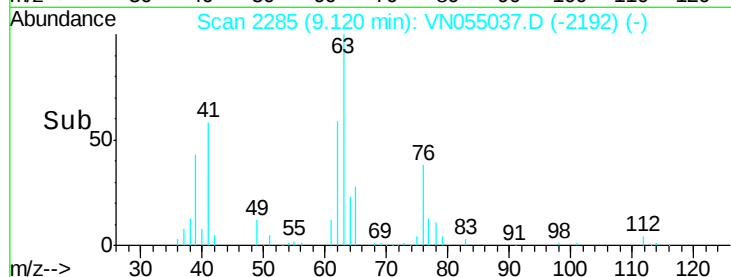
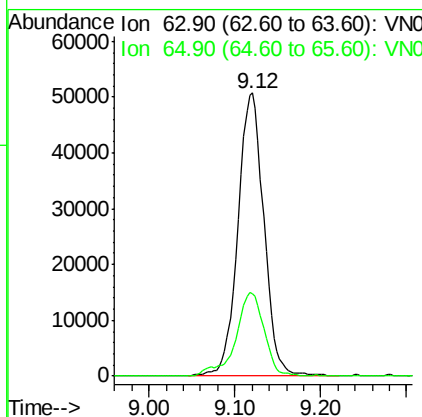
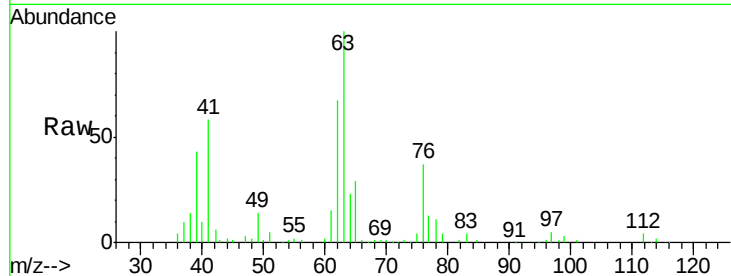
#45
 1,2-Dichloropropane
 Concen: 20.320 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 106494
 Ion Ratio Lower Upper
 63 100
 65 29.3 24.4 36.6

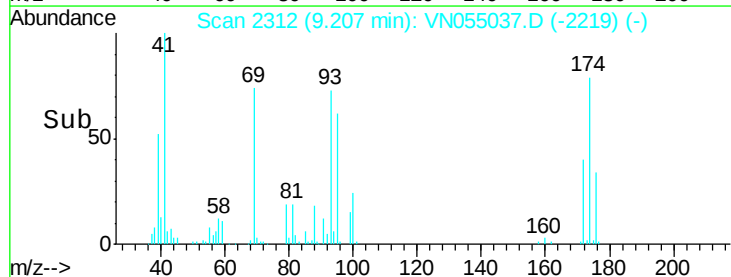
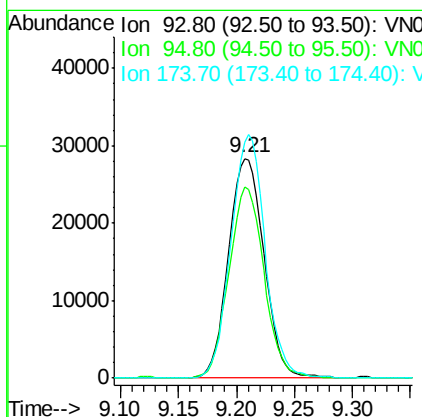
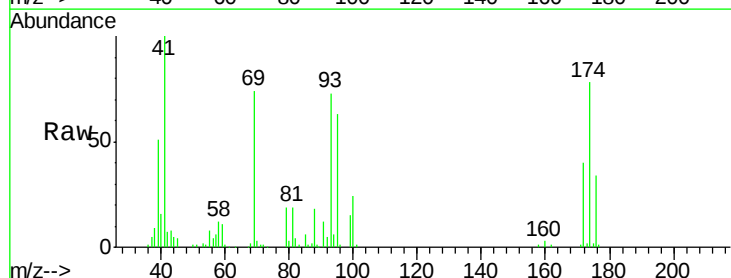
Manual Integrations
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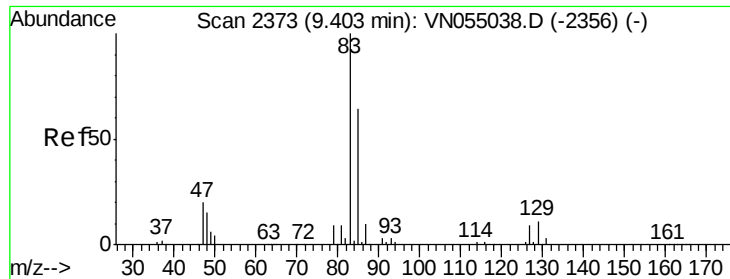
MMDadoda
 4/17/2019 1:49:01 PM



#46
 Dibromomethane
 Concen: 20.108 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Tgt Ion: 93 Resp: 60386
 Ion Ratio Lower Upper
 93 100
 95 85.8 65.0 97.6
 174 106.3 81.0 121.6





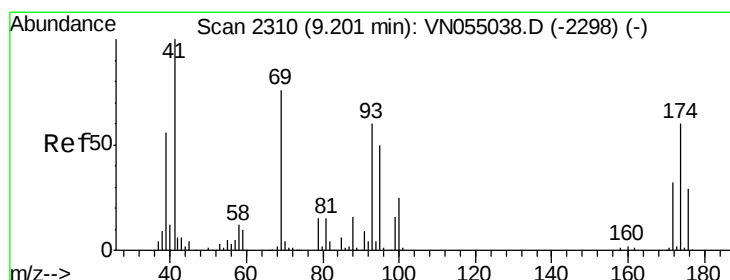
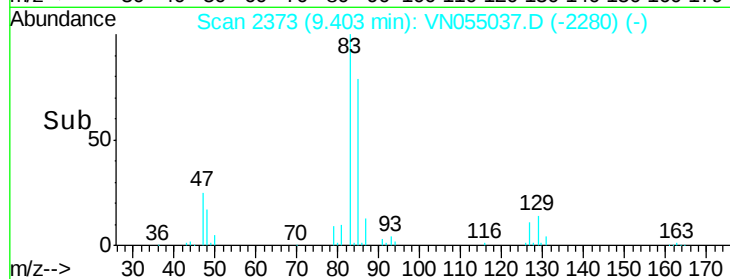
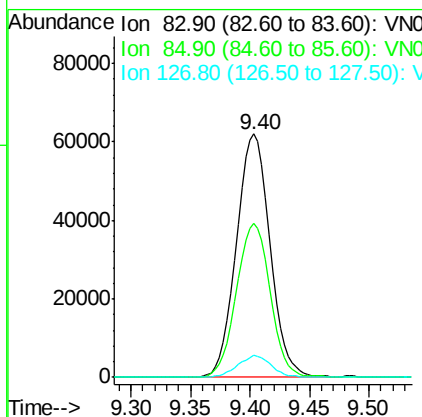
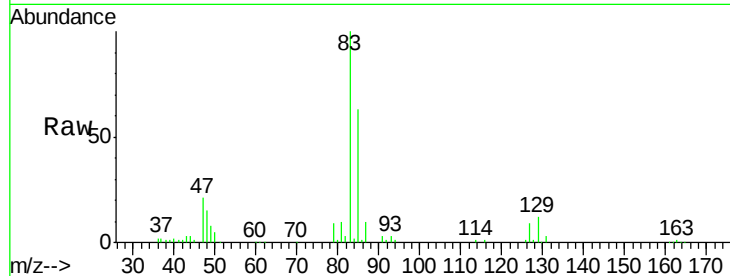
#47
Bromodichloromethane
Concen: 19.979 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:	83	Resp:	122008
Ion Ratio	Lower	Upper	
83	100		
85	63.1	51.2	76.8
127	9.0	6.8	10.2

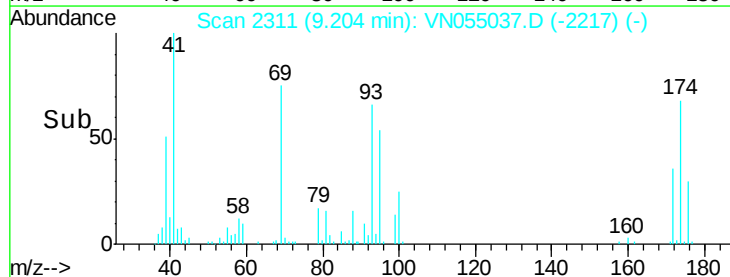
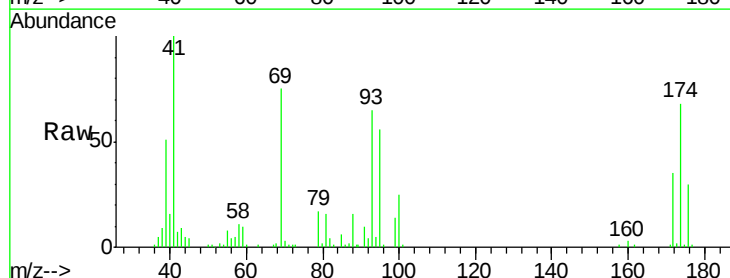
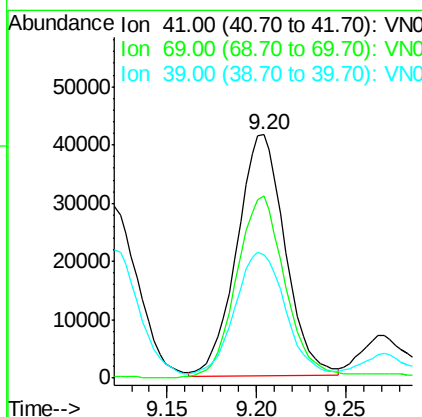
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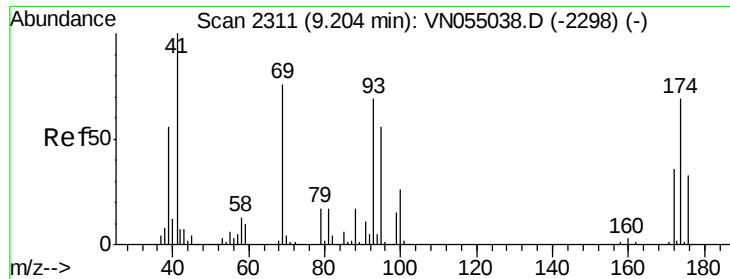
MMDadoda
4/17/2019 1:49:01 PM



#48
Methyl methacrylate
Concen: 19.156 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion:	41	Resp:	77813
Ion Ratio	Lower	Upper	
41	100		
69	76.8	60.5	90.7
39	54.6	43.9	65.9





#49

1,4-Dioxane

Concen: 331.894 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 88 Resp: 14499

Ion Ratio Lower Upper

88 100

43 42.0 31.8 47.8

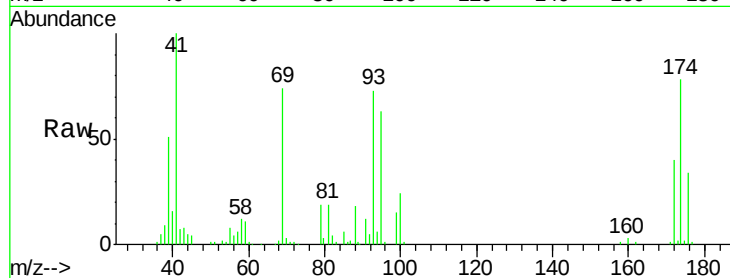
58 75.4 61.6 92.4

Manual Integrations

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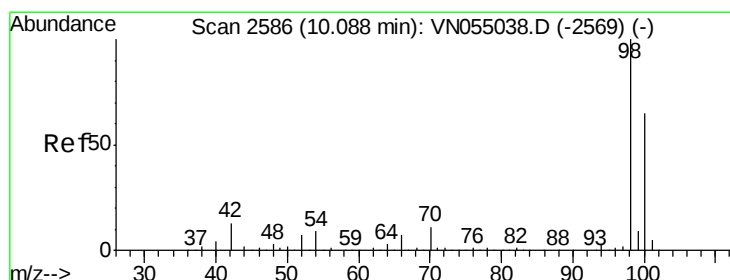
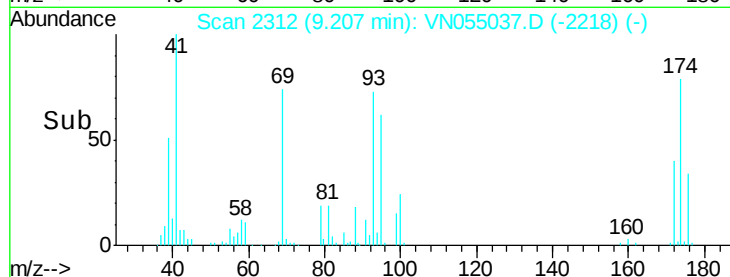
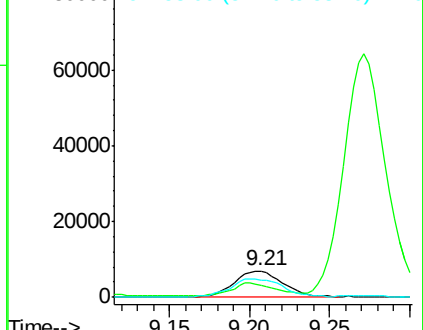
4/17/2019 1:49:01 PM



Abundance Ion 88.00 (87.70 to 88.70): VN055037.D (-2218) (-)

Ion 43.00 (42.70 to 43.70): VN055037.D (-2218) (-)

Ion 58.00 (57.70 to 58.70): VN055037.D (-2218) (-)



#50

Toluene-d8

Concen: 20.833 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055037.D

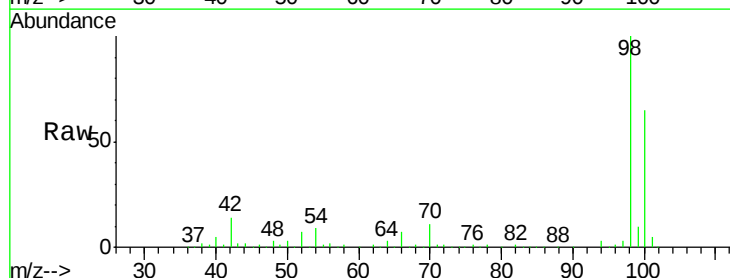
Acq: 15 Apr 2019 10:42

Tgt Ion: 98 Resp: 324202

Ion Ratio Lower Upper

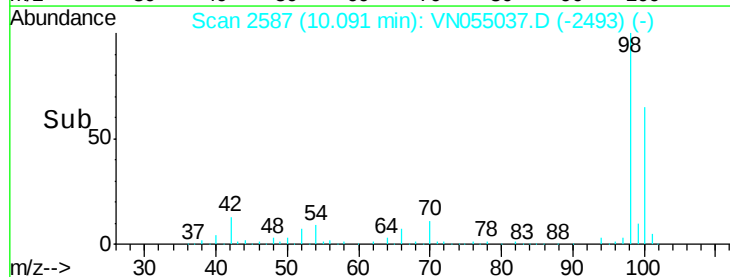
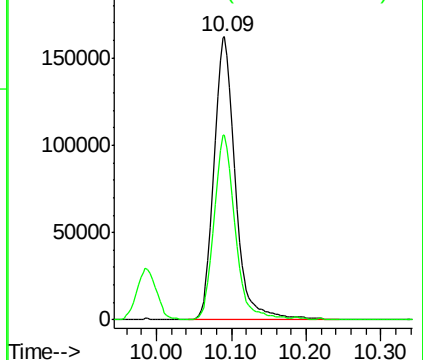
98 100

100 63.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN055037.D (-2493) (-)

Ion 100.00 (99.70 to 100.70): VN055037.D (-2493) (-)





#51

4-Methyl-2-Pentanone

Concen: 100.877 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 465758

Ion Ratio Lower Upper

43 100

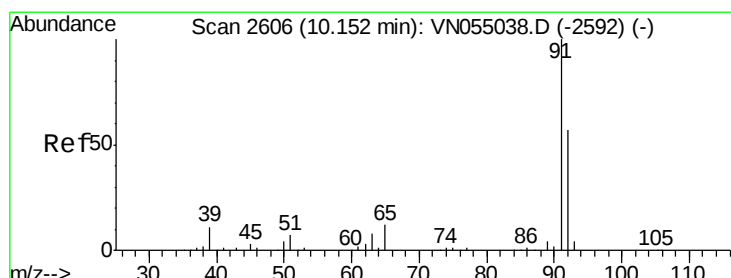
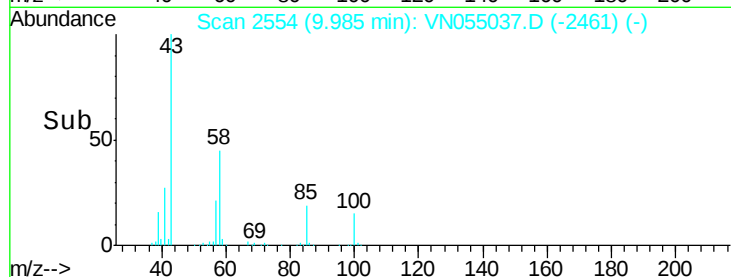
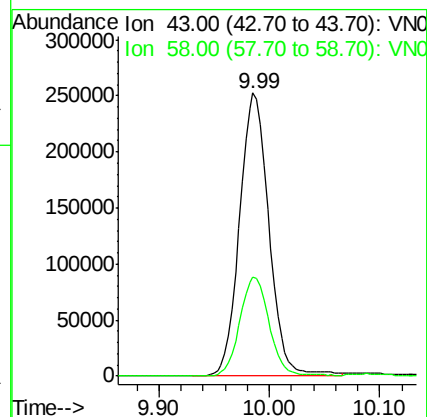
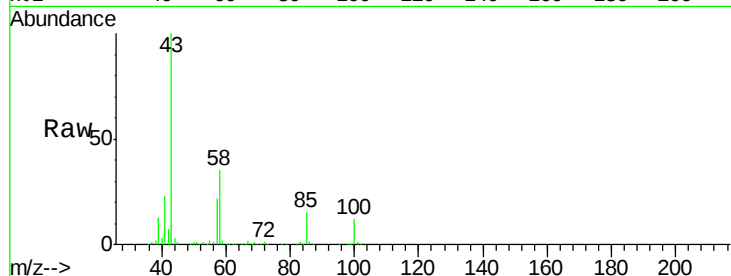
58 35.3 29.0 43.4

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4/17/2019 1:49:01 PM



#52

Toluene

Concen: 20.075 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055037.D

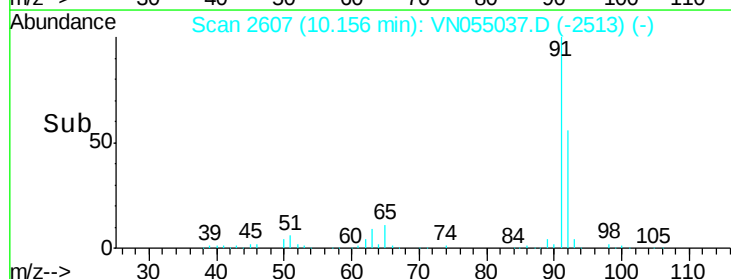
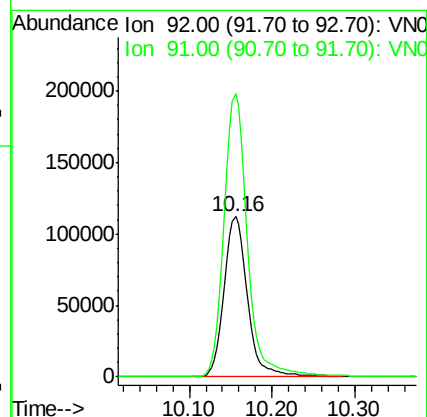
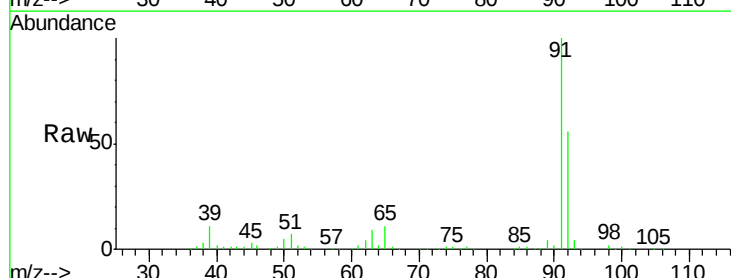
Acq: 15 Apr 2019 10:42

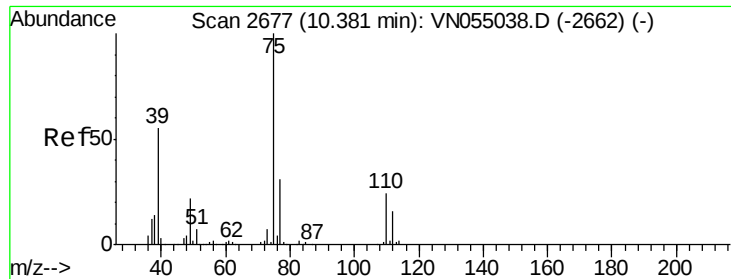
Tgt Ion: 92 Resp: 220501

Ion Ratio Lower Upper

92 100

91 176.1 140.8 211.2





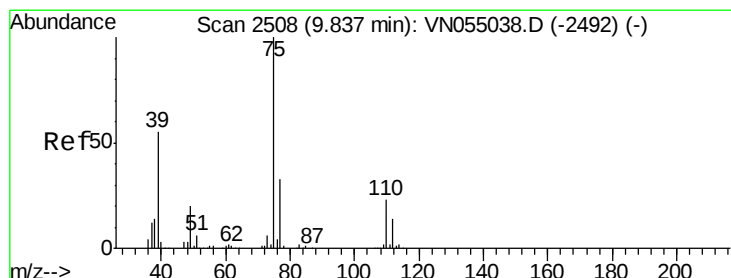
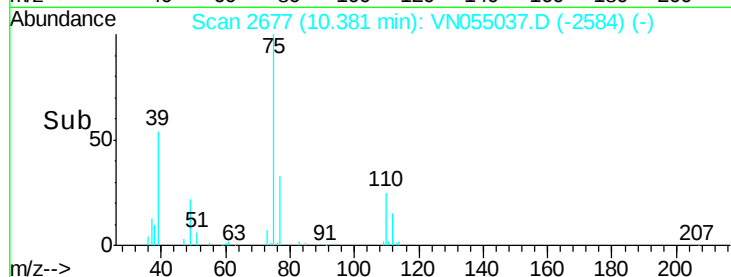
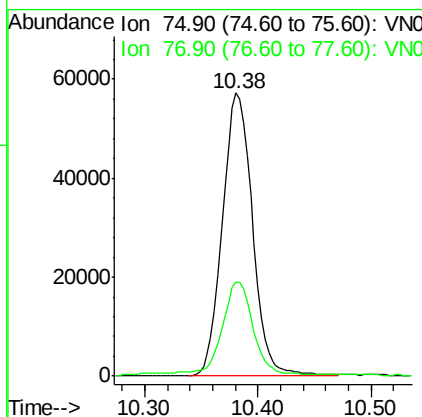
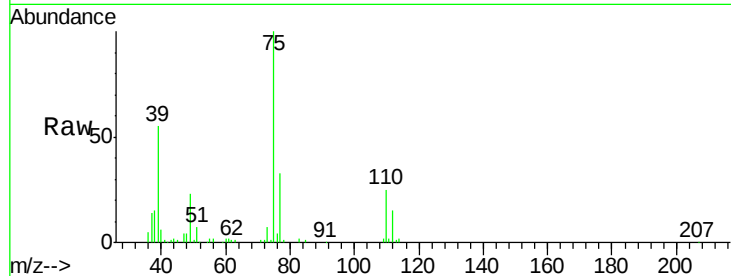
#53
t-1,3-Dichloropropene
Concen: 19.204 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.8	24.6	37.0

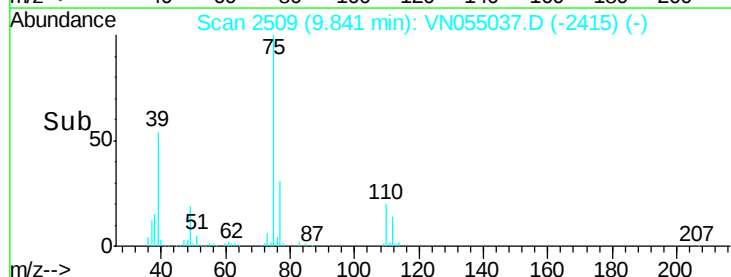
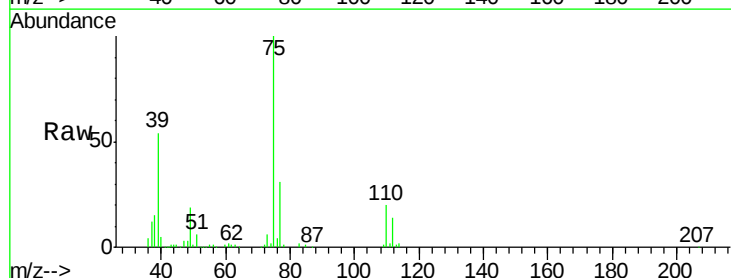
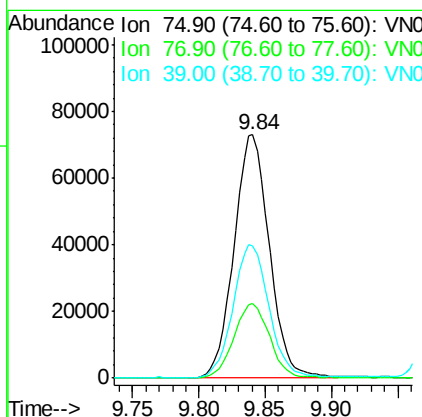
Manual Integrations
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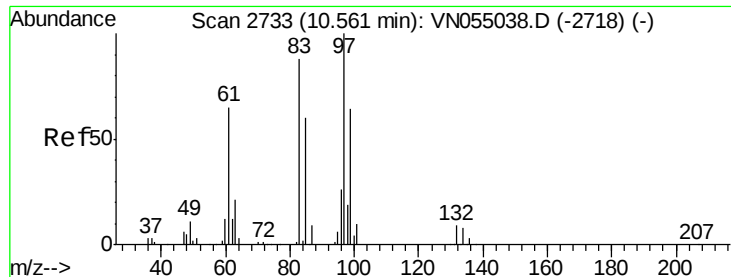
MMDadoda
4/17/2019 1:49:01 PM



#54
cis-1,3-Dichloropropene
Concen: 19.863 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.8	38.6
39	54.2	43.8	65.8





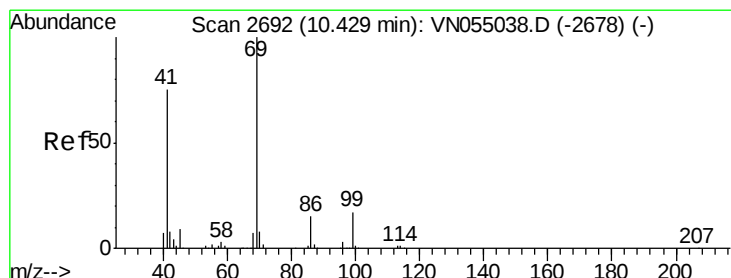
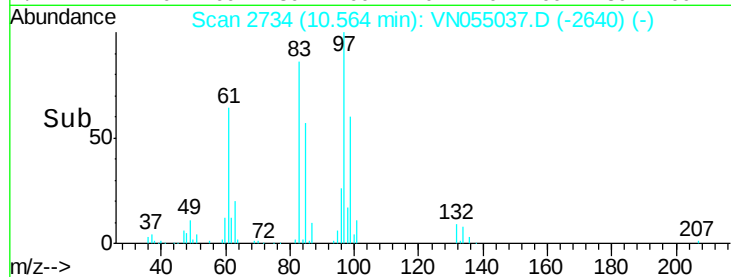
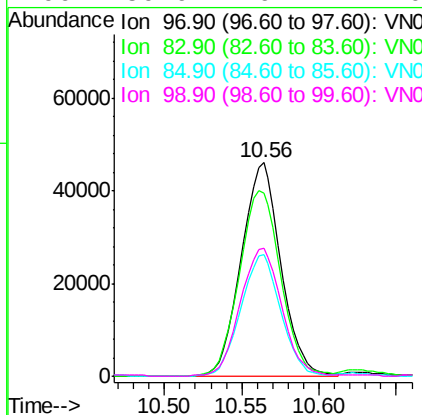
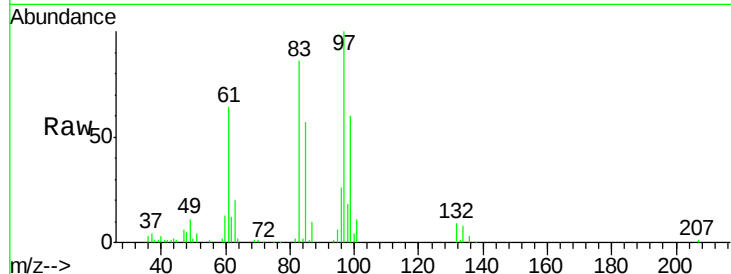
#55
 1,1,2-Trichloroethane
 Concen: 20.144 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	82422
Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.5	105.7
85	57.2	45.5	68.3
99	59.9	49.4	74.0

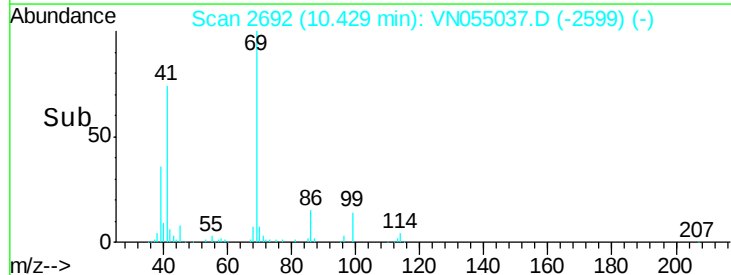
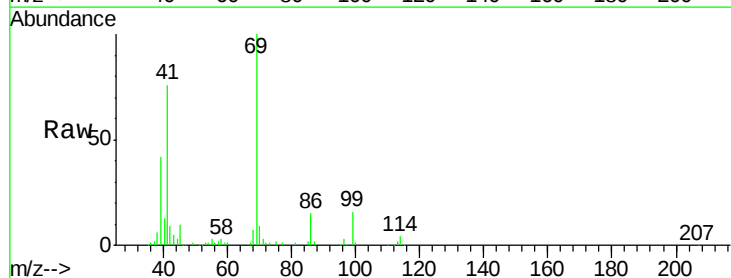
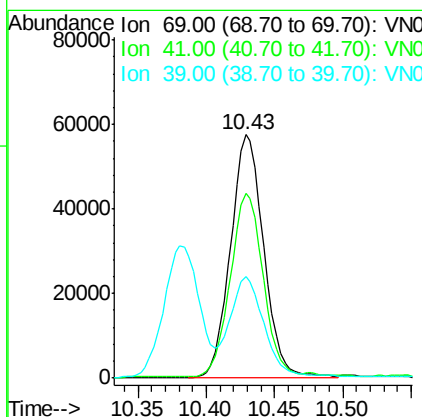
Manual Integrations
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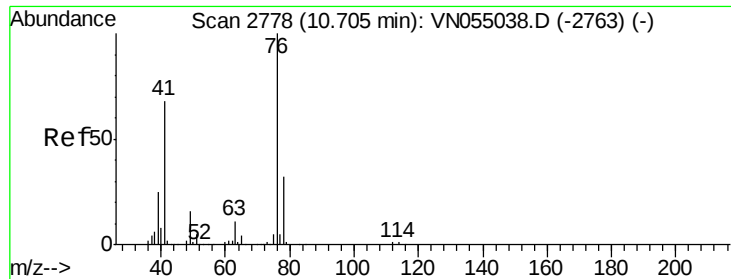
MMDadoda
 4/17/2019 1:49:01 PM



#56
 Ethyl methacrylate
 Concen: 18.569 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Tgt Ion:	69	Resp:	97764
Ion	Ratio	Lower	Upper
69	100		
41	73.7	61.4	92.0
39	41.0	30.8	46.2





#57

1,3-Dichloropropane

Concen: 20.446 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 144317

Ion Ratio Lower Upper

76 100

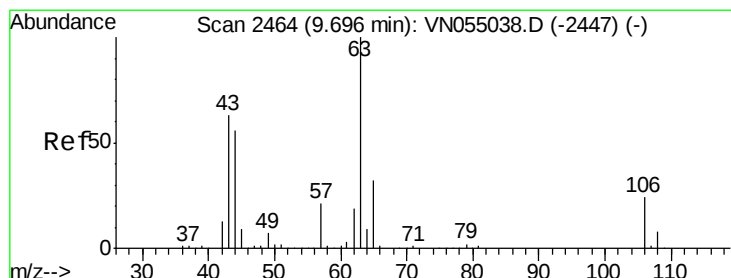
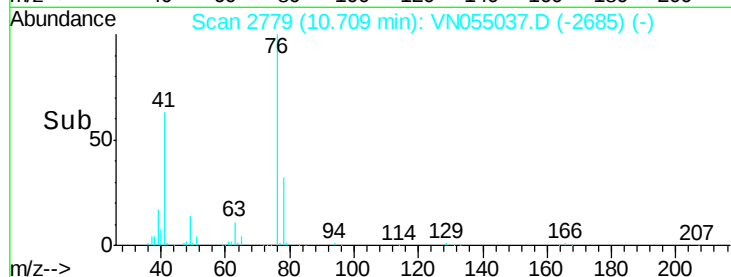
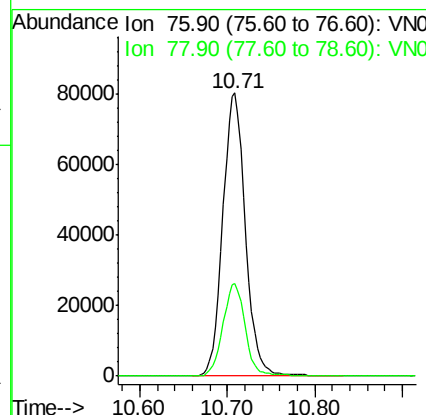
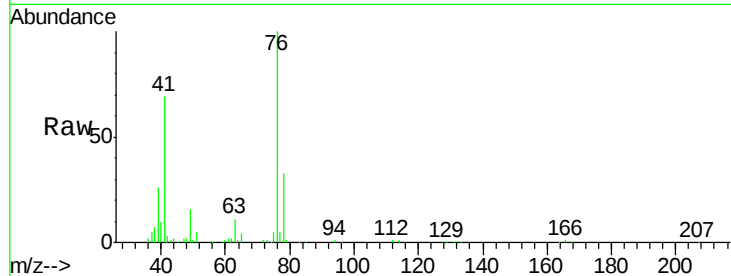
78 31.8 25.6 38.4

Manual Integrations

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4/17/2019 1:49:01 PM



#58

2-Chloroethyl Vinyl ether

Concen: 91.144 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055037.D

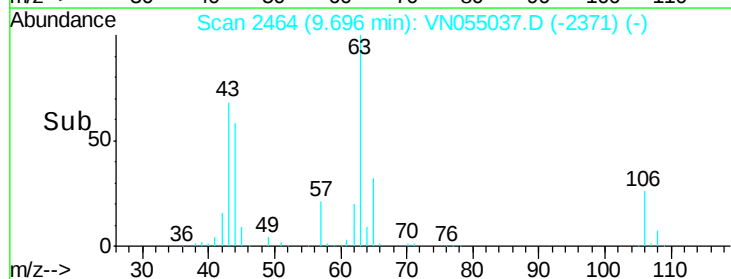
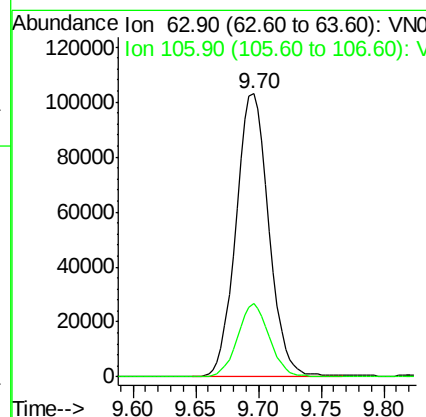
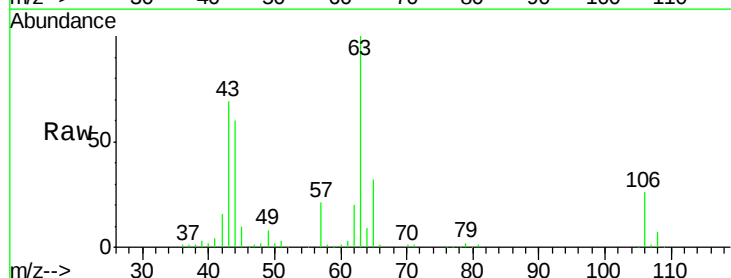
Acq: 15 Apr 2019 10:42

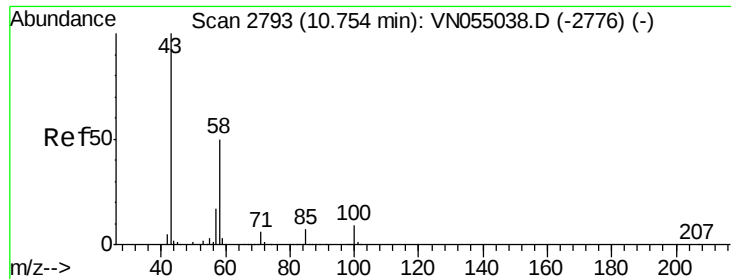
Tgt Ion: 63 Resp: 187760

Ion Ratio Lower Upper

63 100

106 25.0 20.0 30.0





#59

2-Hexanone

Concen: 101.347 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 292406

Ion Ratio Lower Upper

43 100

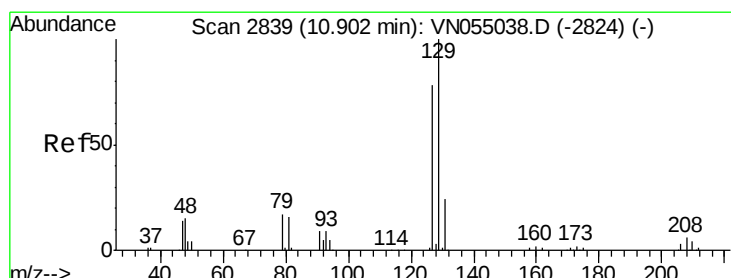
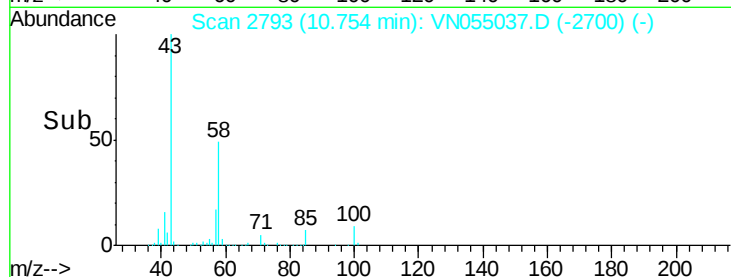
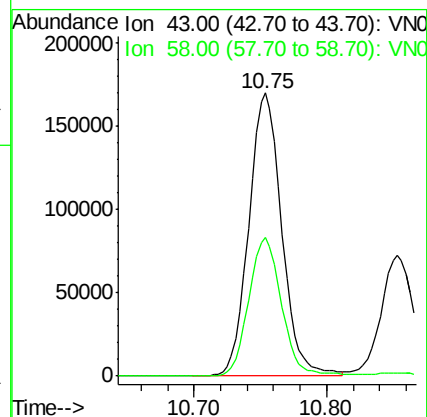
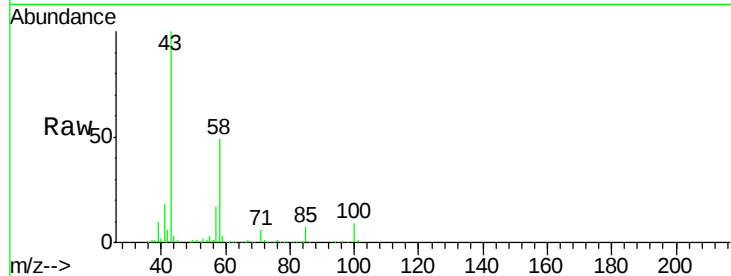
58 49.3 25.1 75.2

Manual Integrations

APPROVED

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4/17/2019 1:49:01 PM



#60

Dibromochloromethane

Concen: 20.501 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055037.D

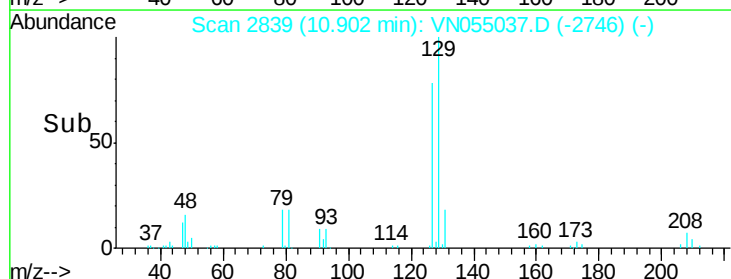
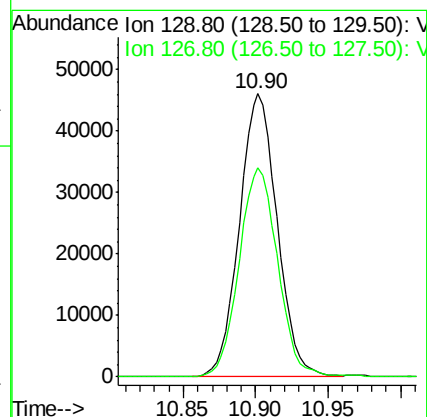
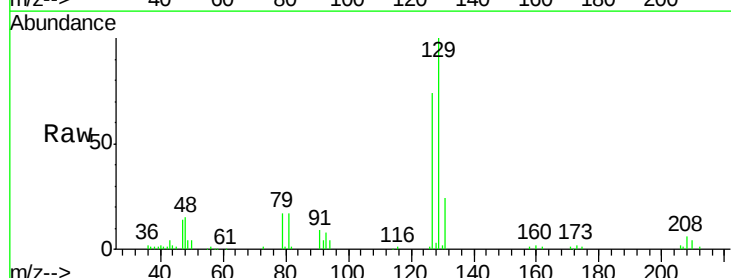
Acq: 15 Apr 2019 10:42

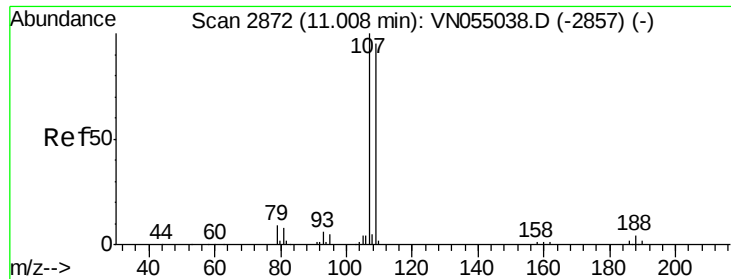
Tgt Ion: 129 Resp: 83494

Ion Ratio Lower Upper

129 100

127 75.4 38.2 114.6





#61

1,2-Dibromoethane

Concen: 19.751 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 77373

Ion Ratio Lower Upper

107 100

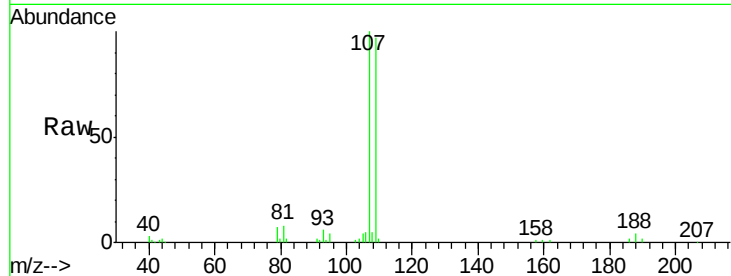
109 93.0 76.5 114.7

Manual Integrations

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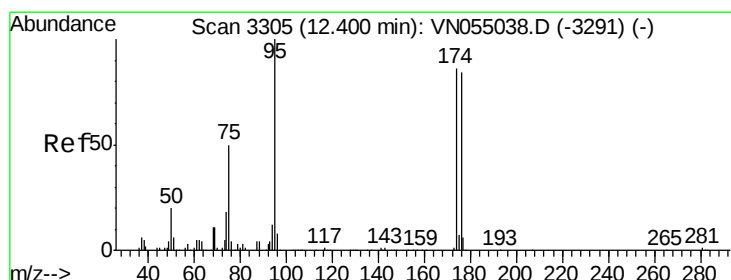
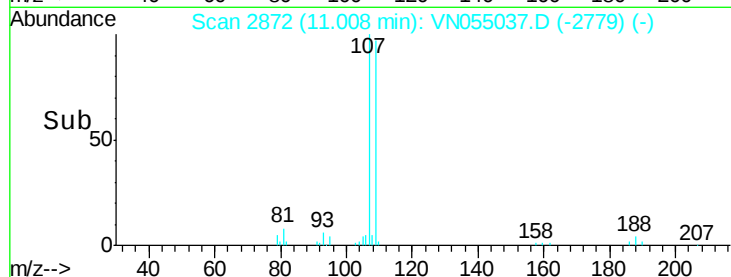
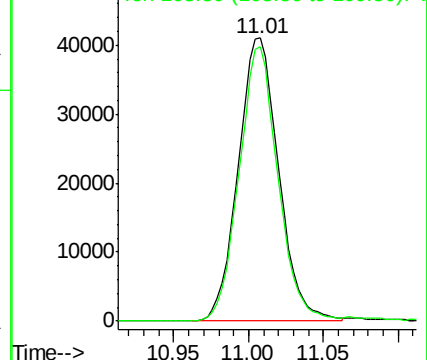
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 19.983 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

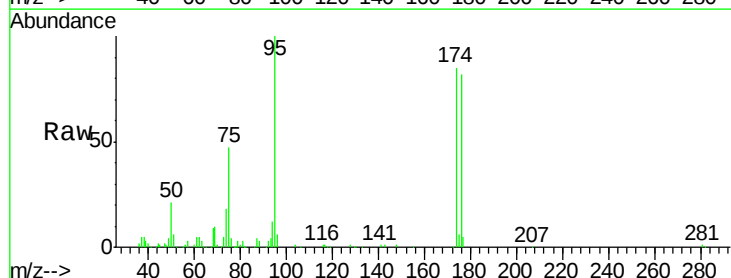
Tgt Ion: 95 Resp: 104751

Ion Ratio Lower Upper

95 100

174 87.2 0.0 174.4

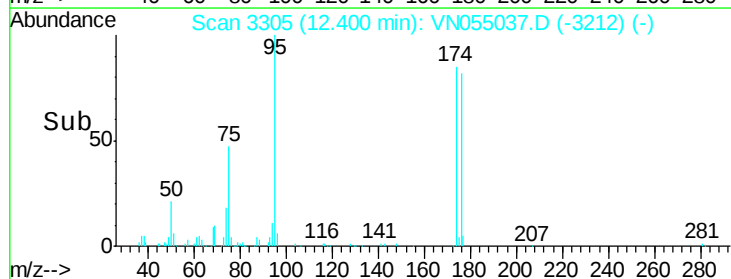
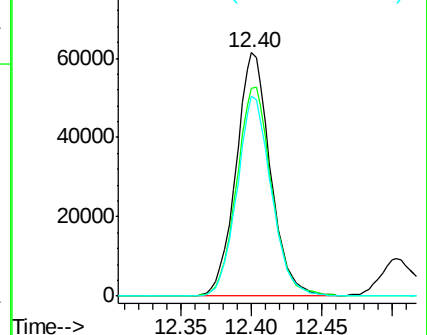
176 81.8 0.0 166.8

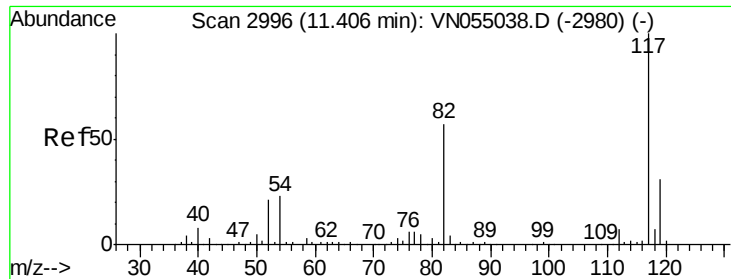


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





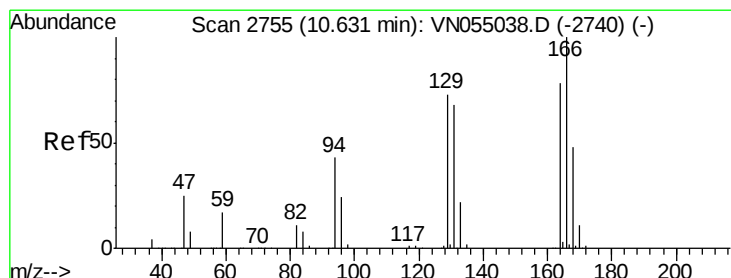
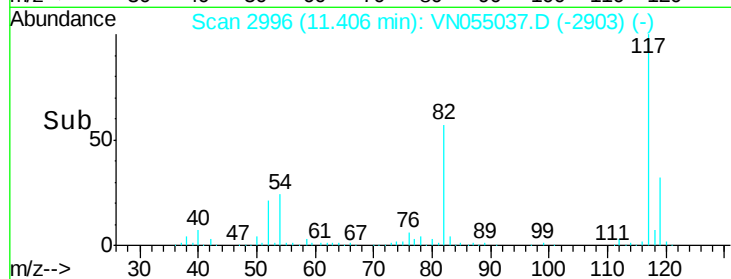
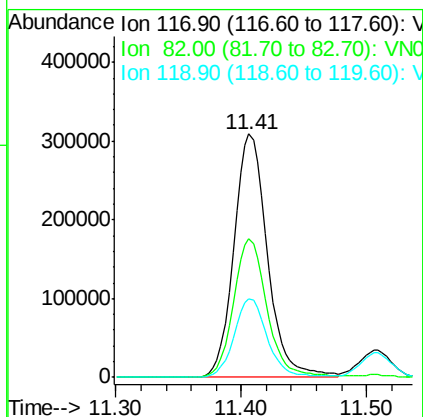
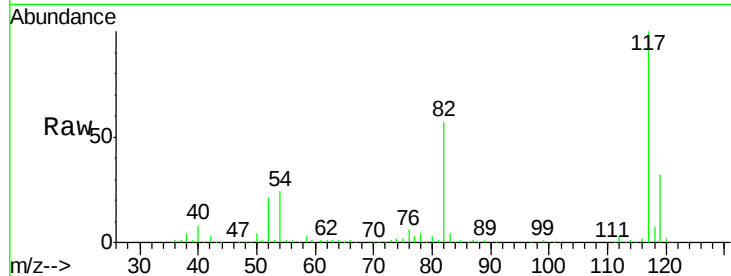
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.9	44.6	66.8
119	32.4	25.5	38.3

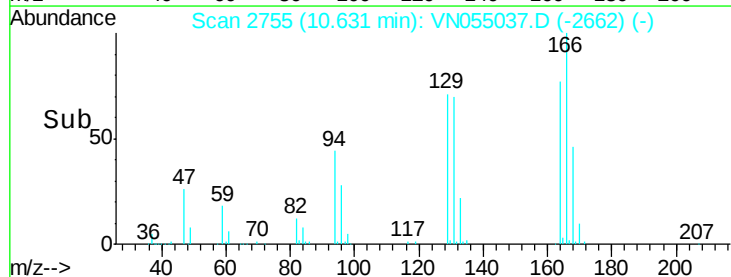
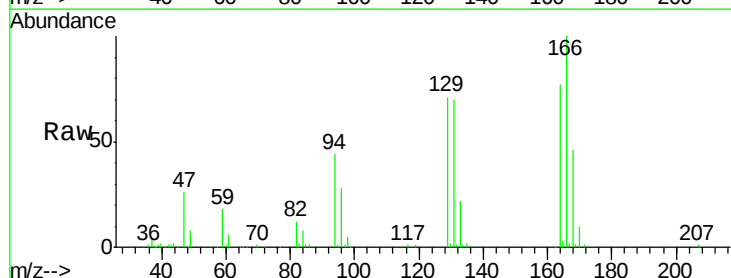
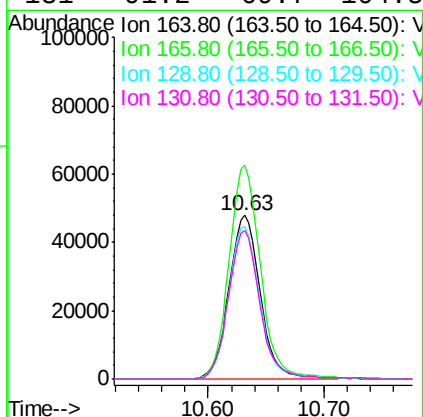
Manual Integrations
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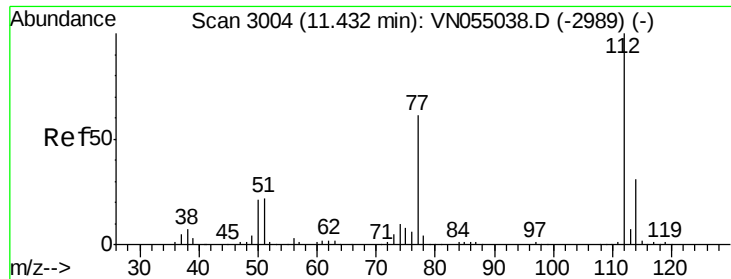
MMDadoda
4/17/2019 1:49:01 PM



#64
Tetrachloroethene
Concen: 20.028 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.6	100.0	150.0
129	93.3	72.0	108.0
131	91.2	69.7	104.5





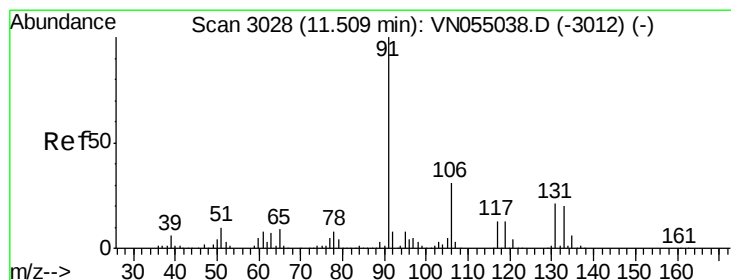
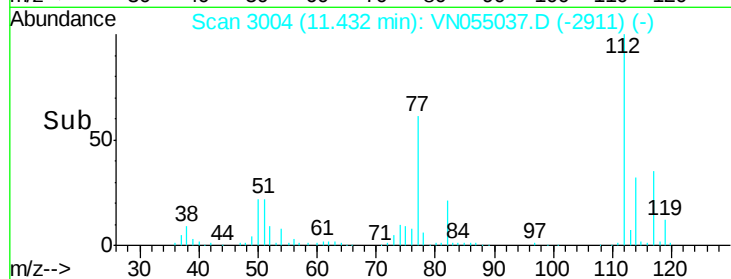
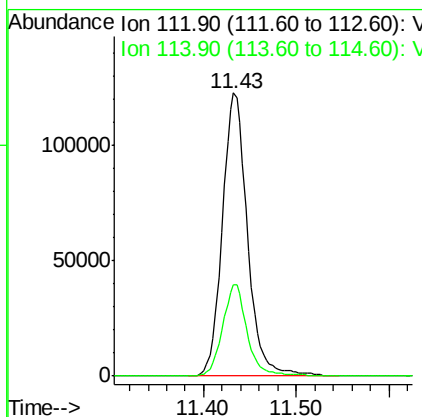
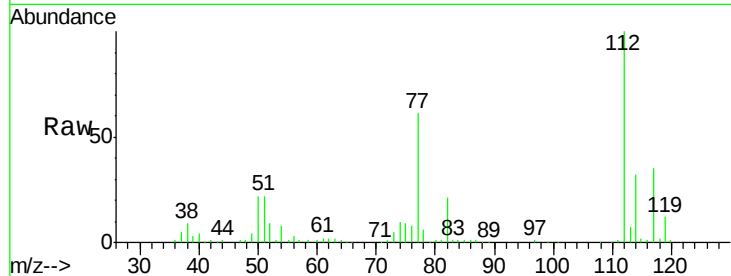
#65
Chlorobenzene
Concen: 20.799 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:112 Resp: 230084
Ion Ratio Lower Upper
112 100
114 32.4 25.3 37.9

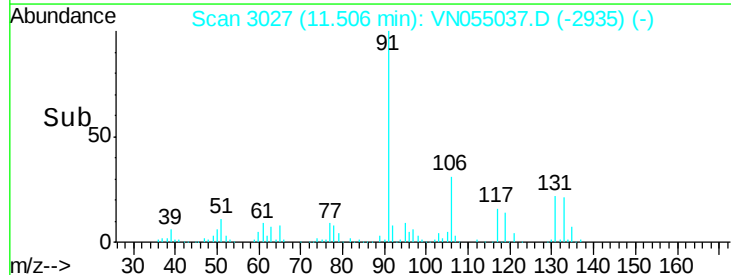
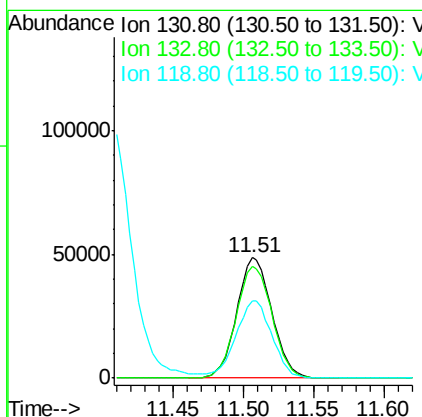
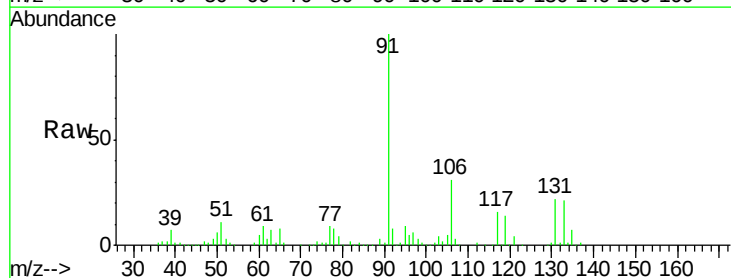
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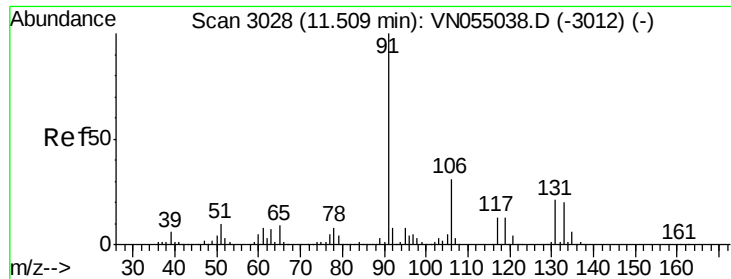
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.780 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion:131 Resp: 84713
Ion Ratio Lower Upper
131 100
133 95.0 47.8 143.3
119 65.8 33.6 100.6





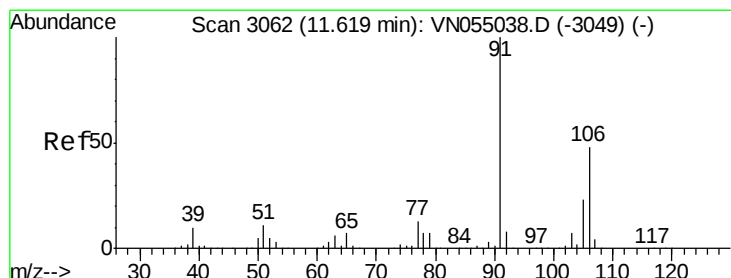
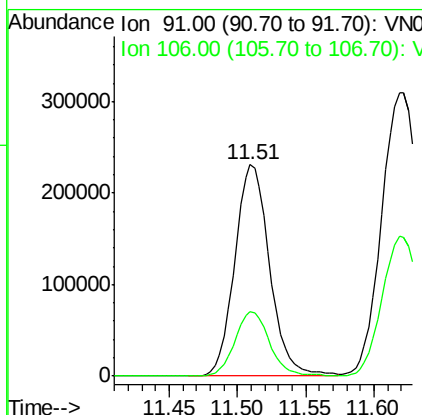
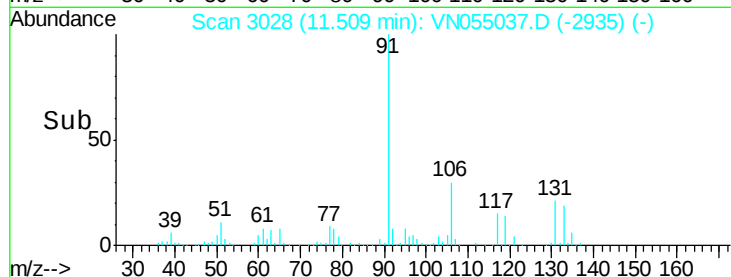
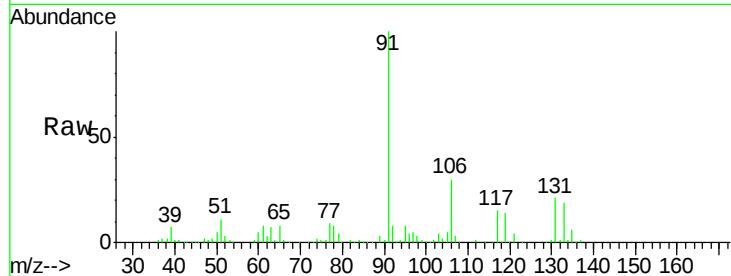
#67
Ethyl Benzene
Concen: 20.222 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 410897
Ion Ratio Lower Upper
91 100
106 30.4 24.3 36.5

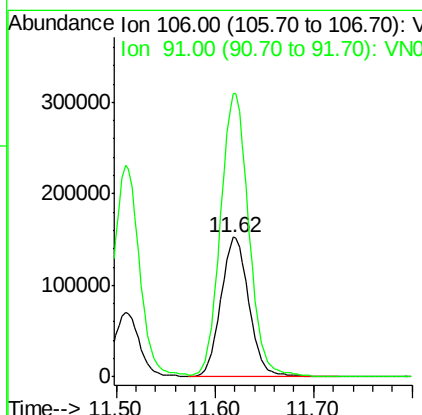
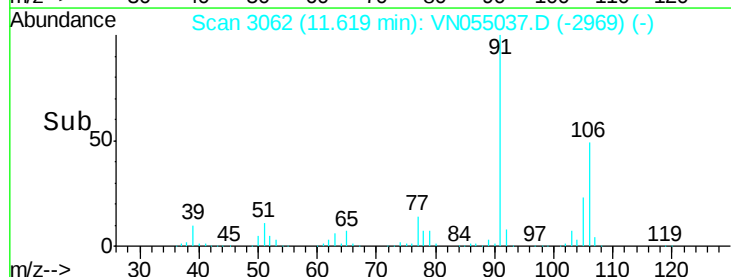
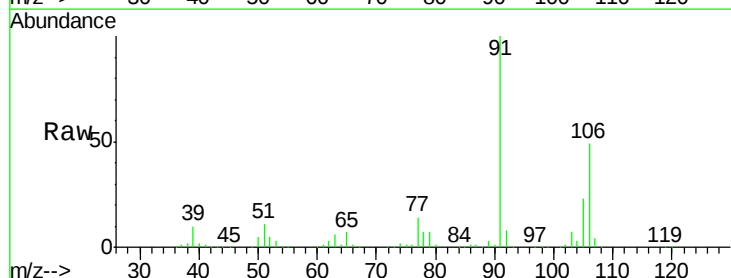
Manual Integrations
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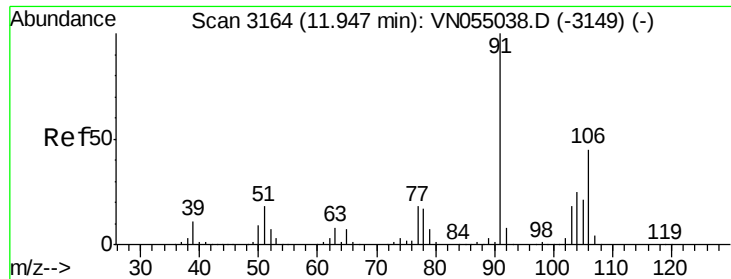
MMDadoda
4/17/2019 1:49:01 PM



#68
m/p-Xylenes
Concen: 41.091 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion: 106 Resp: 305479
Ion Ratio Lower Upper
106 100
91 204.5 165.9 248.9





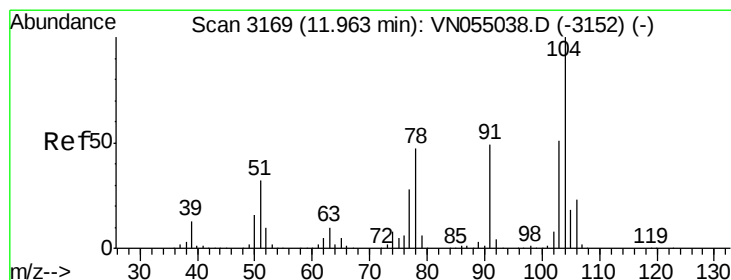
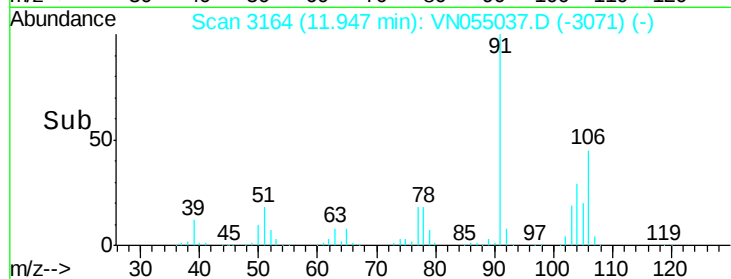
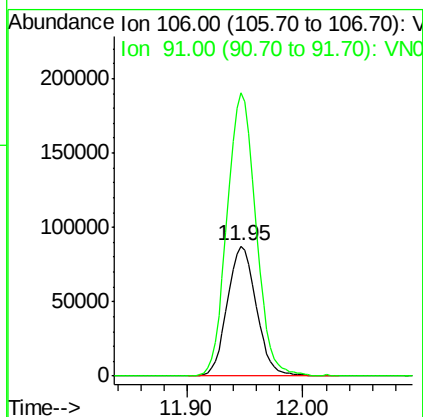
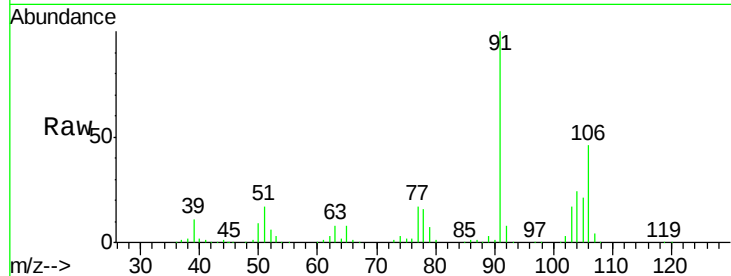
#69
o-Xylene
Concen: 20.528 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	216.3	109.9	329.8	

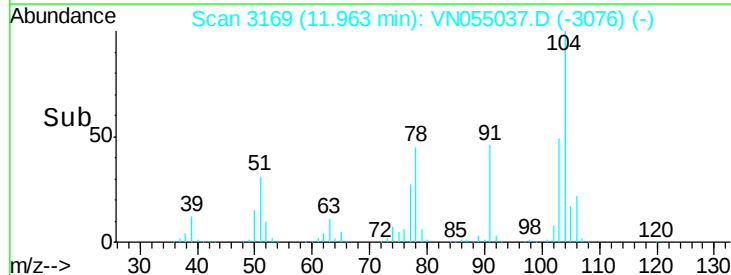
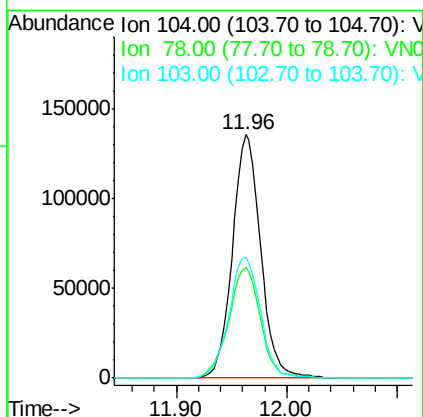
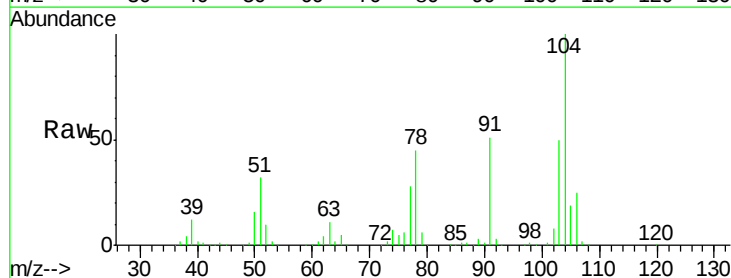
Manual Integrations
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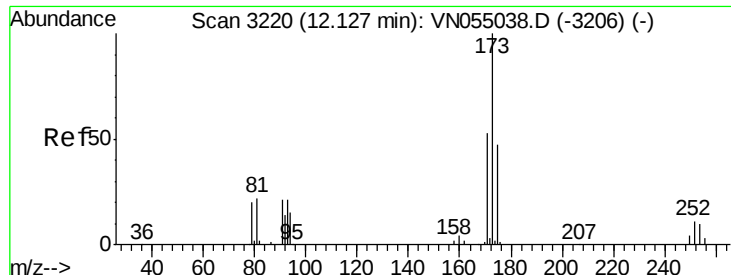
MMDadoda
4/17/2019 1:49:01 PM



#70
Styrene
Concen: 20.677 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	51.3	40.3	60.5	
103	55.4	44.3	66.5	





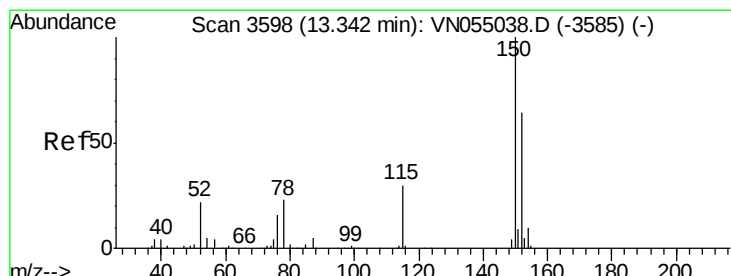
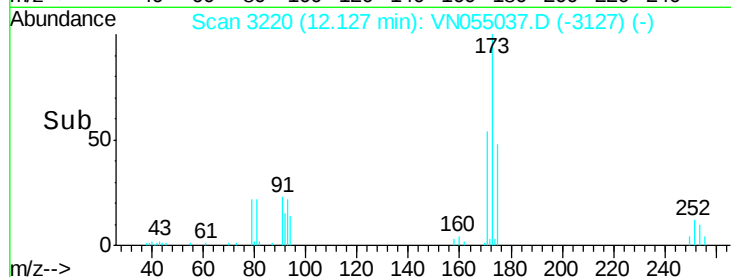
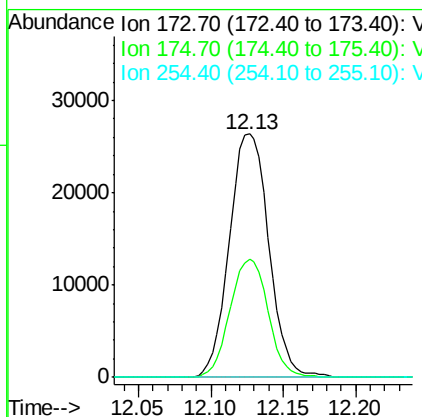
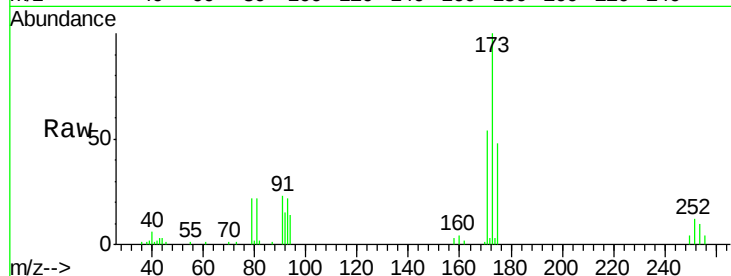
#71
Bromoform
Concen: 20.289 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.8	24.3	73.0
254	0.0	0.1	0.1#

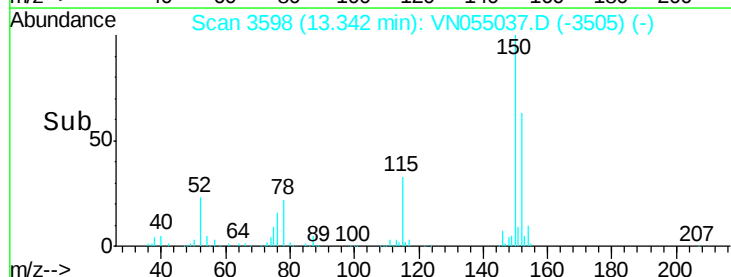
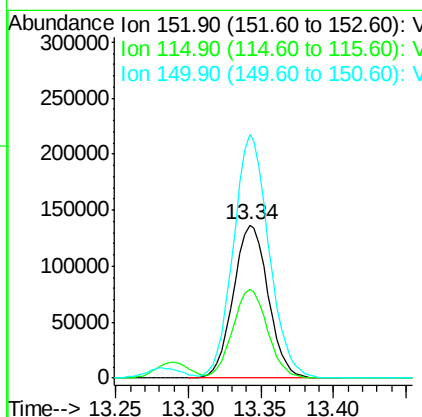
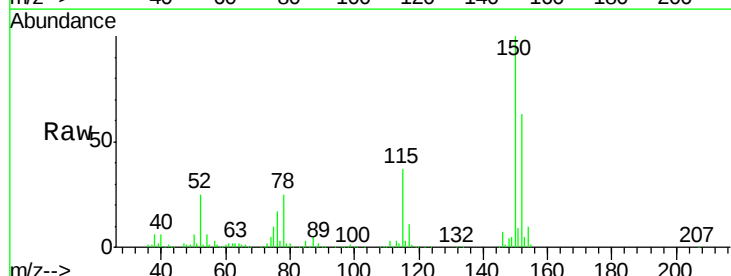
Manual Integrations
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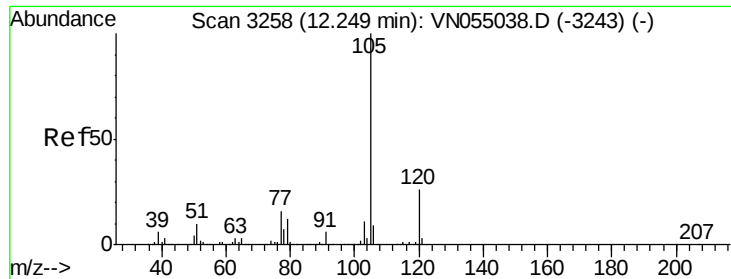
MMDadoda
4/17/2019 1:49:01 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.5	85.6
150	162.7	0.0	347.2





#73

Isopropylbenzene

Concen: 20.043 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 389154

Ion Ratio Lower Upper

105 100

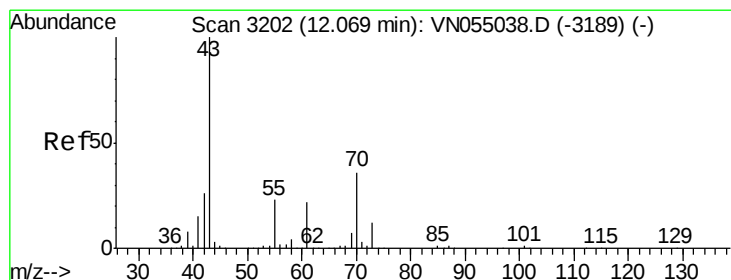
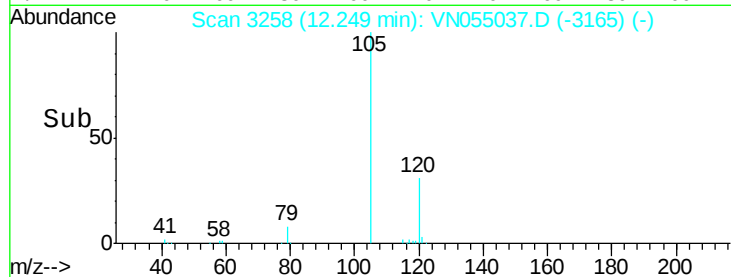
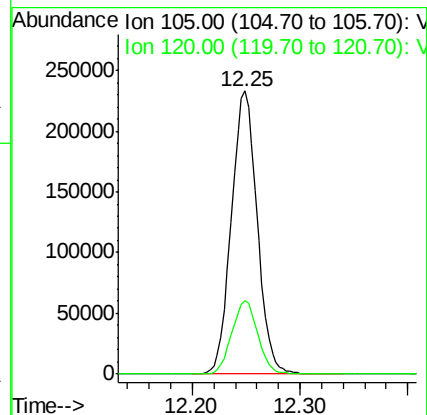
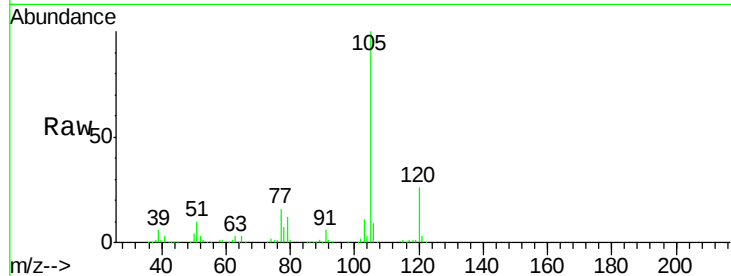
120 26.1 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

4/17/2019 1:49:01 PM



#74

N-ethyl acetate

Concen: 19.086 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion: 43 Resp: 111697

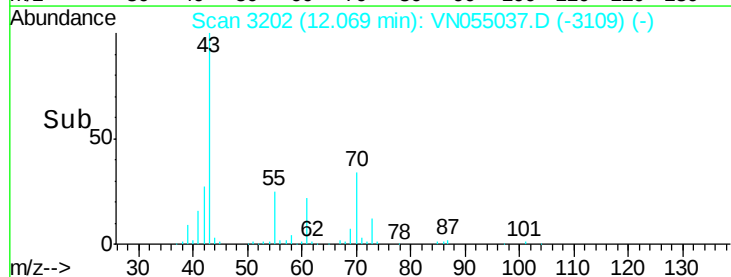
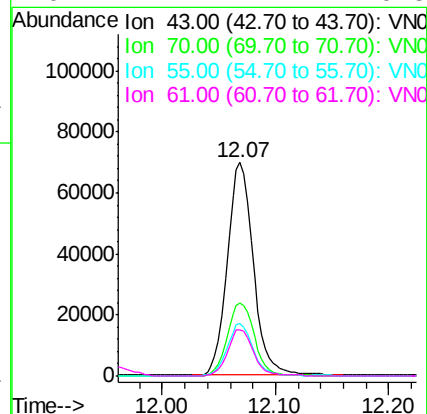
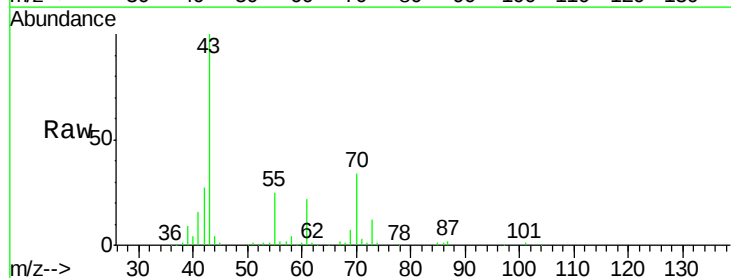
Ion Ratio Lower Upper

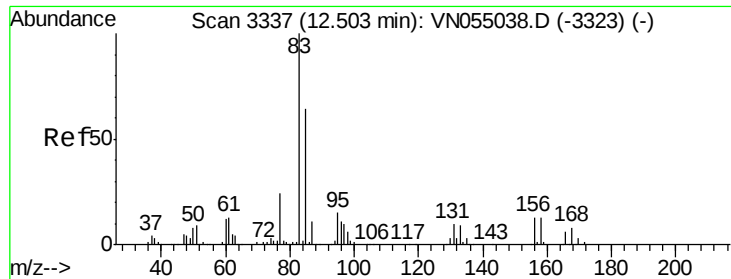
43 100

70 35.9 29.4 44.0

55 24.4 19.0 28.4

61 21.7 17.7 26.5





#75

1,1,2,2-Tetrachloroethane

Concen: 20.648 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

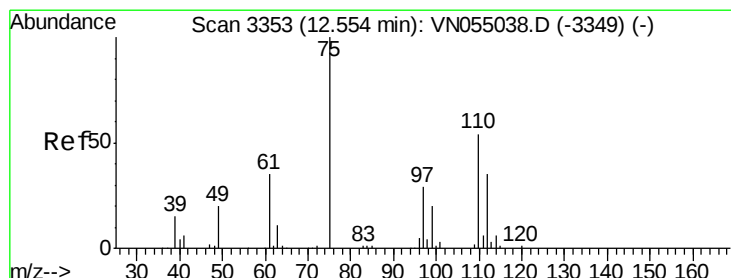
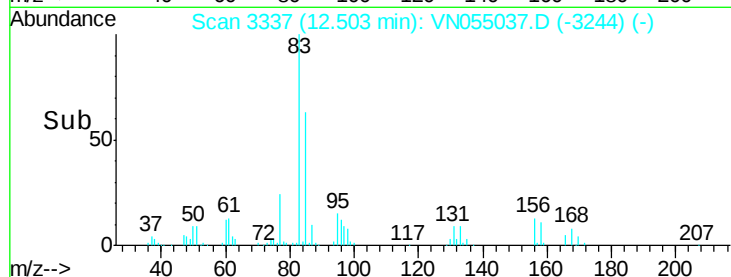
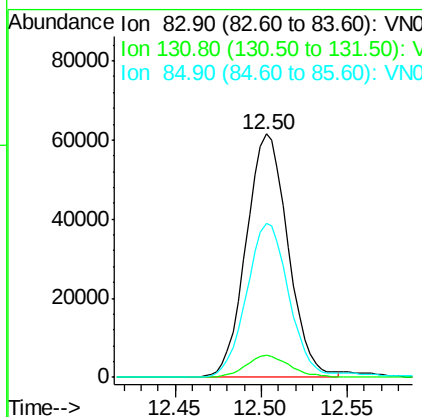
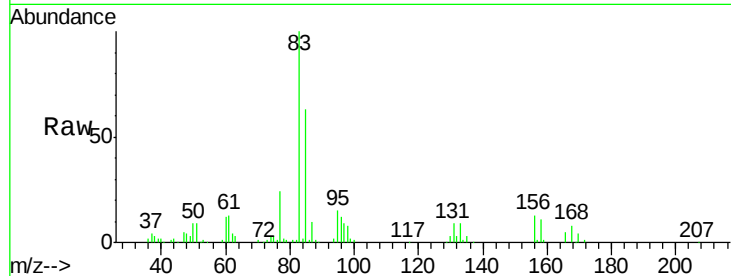
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	103795
Ion Ratio	Lower	Upper	
83	100		
131	9.3	5.0	15.0
85	65.2	32.3	96.9

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4/17/2019 1:49:01 PM



#76

1,2,3-Trichloropropane

Concen: 19.025 ug/l m

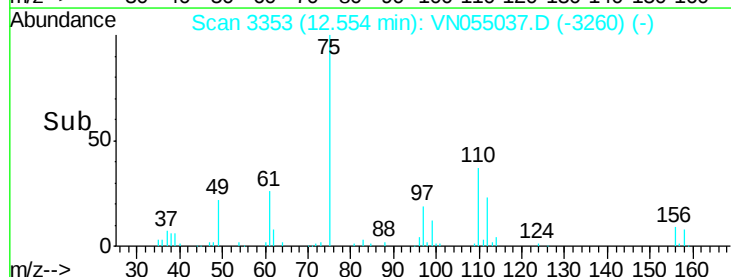
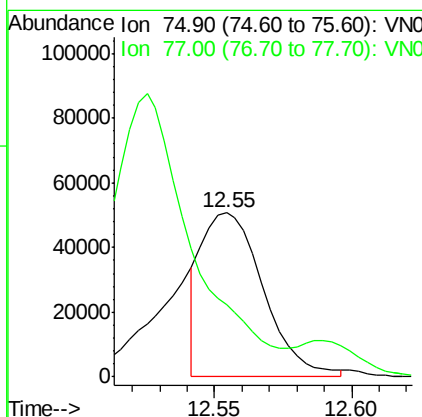
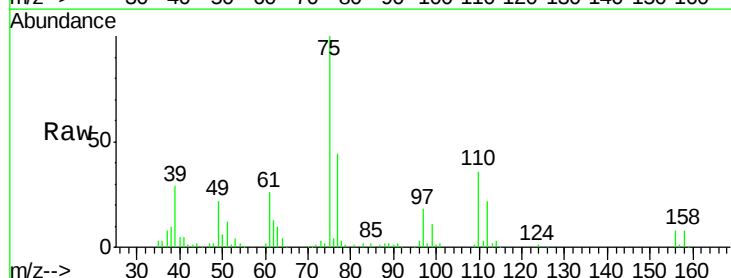
RT: 12.55 min Scan# 3353

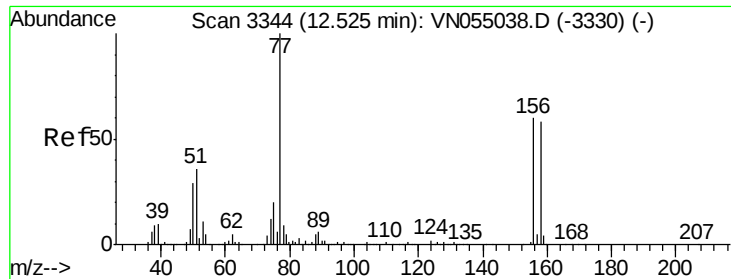
Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion:	75	Resp:	79929
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.835 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:156 Resp: 94604

Ion Ratio Lower Upper

156 100

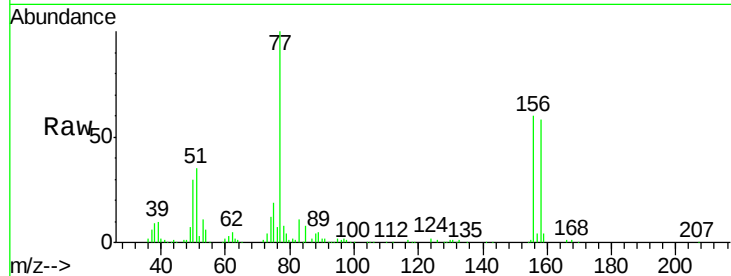
77 194.8 97.2 291.5

158 97.4 48.6 145.9

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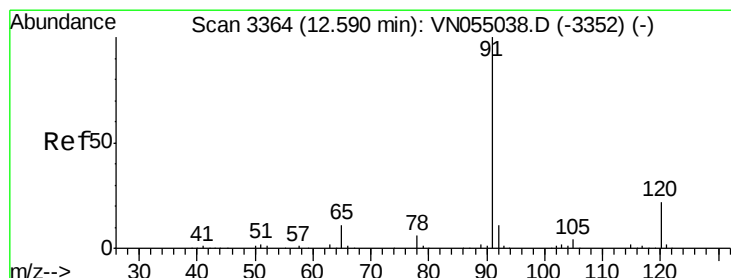
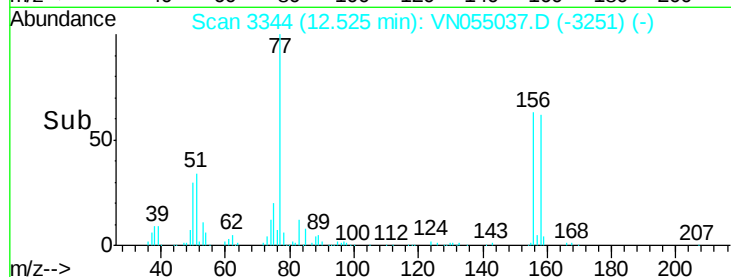
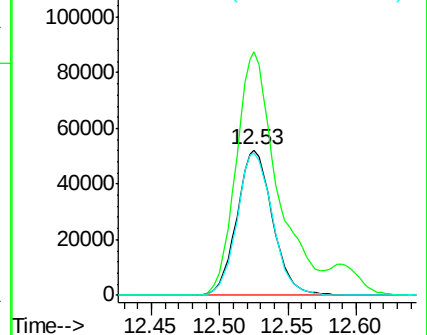
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.245 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055037.D

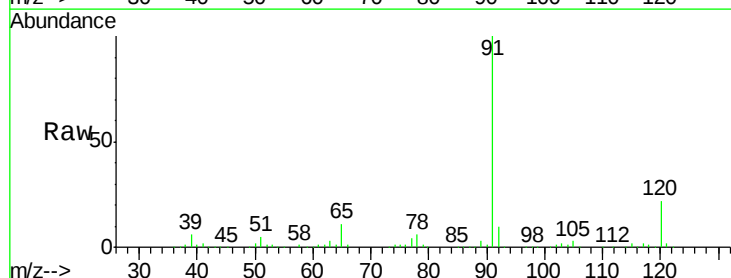
Acq: 15 Apr 2019 10:42

Tgt Ion: 91 Resp: 428259

Ion Ratio Lower Upper

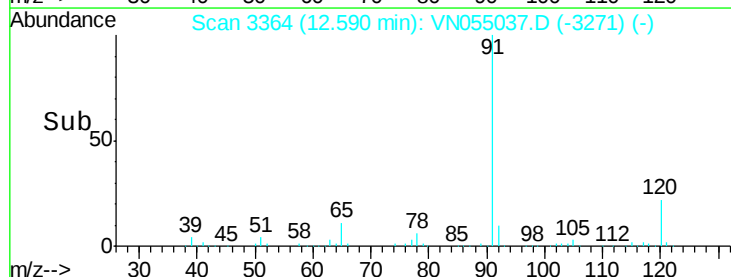
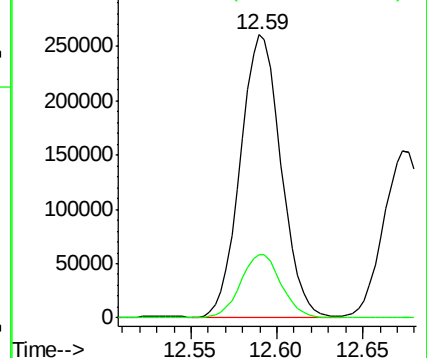
91 100

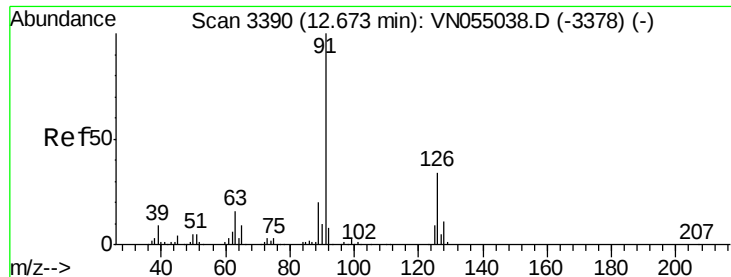
120 22.4 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.116 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 262875

Ion Ratio Lower Upper

91 100

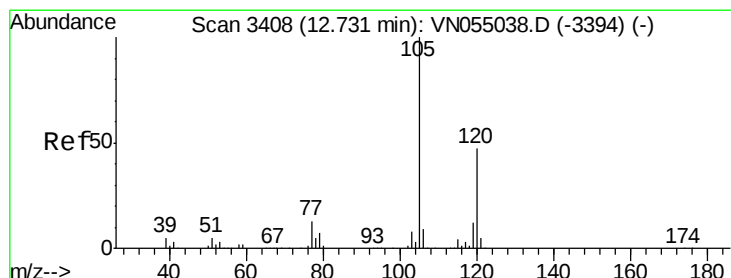
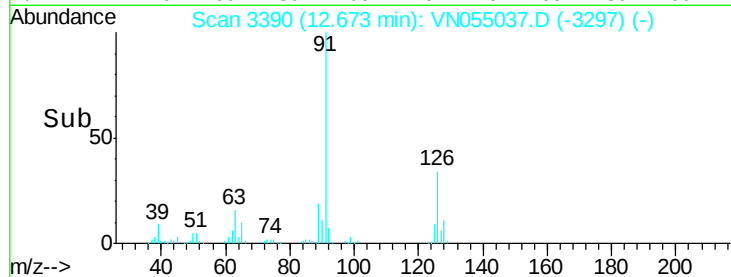
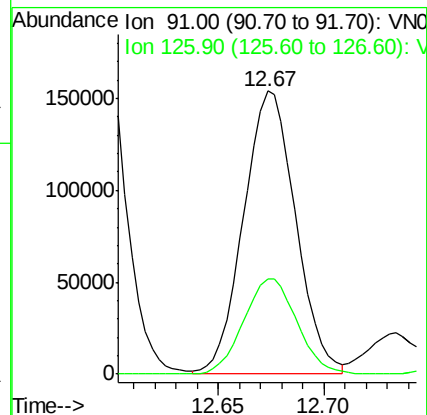
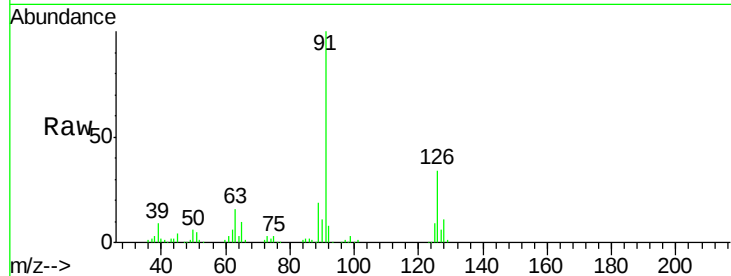
126 34.7 17.1 51.2

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#80

1,3,5-Trimethylbenzene

Concen: 20.364 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055037.D

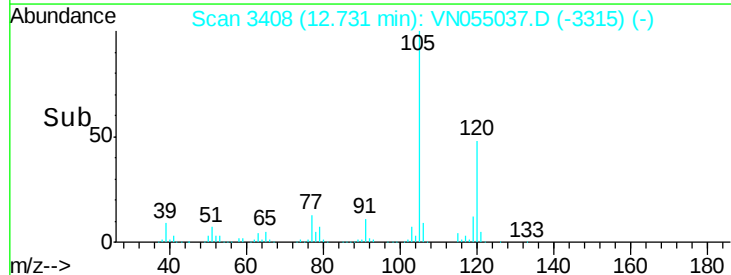
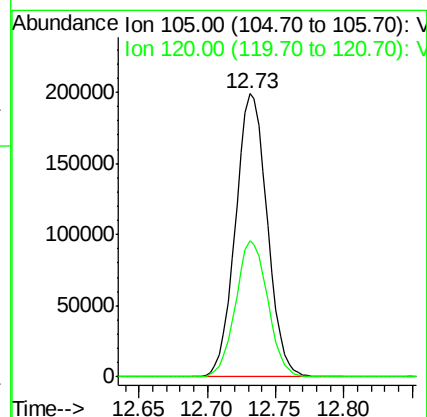
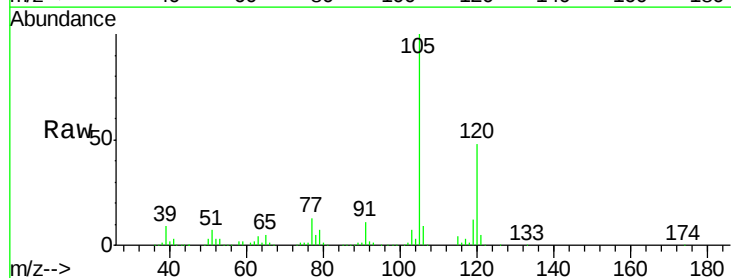
Acq: 15 Apr 2019 10:42

Tgt Ion: 105 Resp: 321884

Ion Ratio Lower Upper

105 100

120 48.5 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 19.409 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

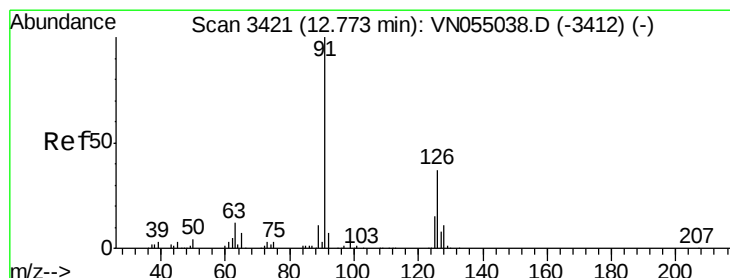
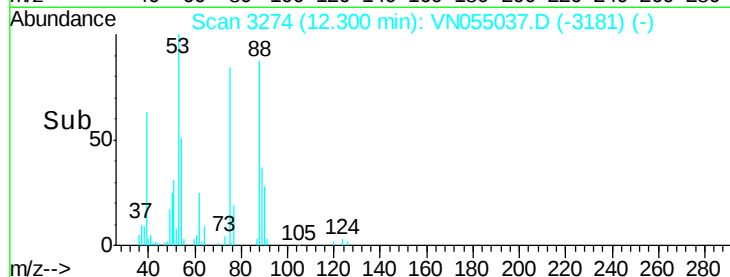
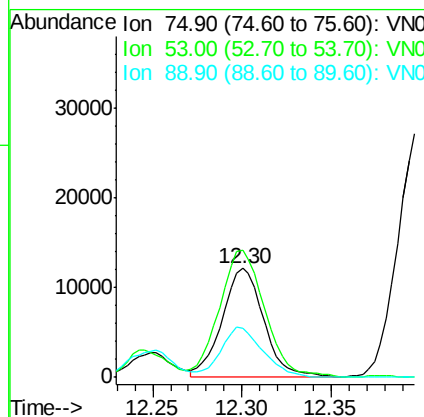
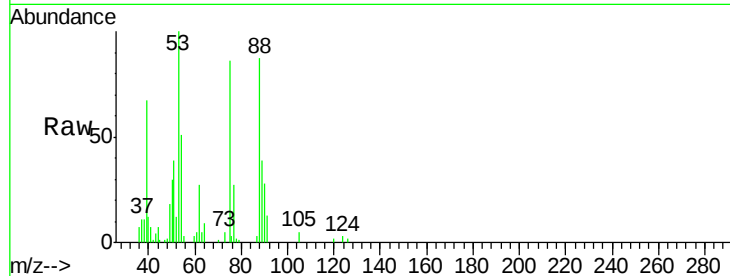
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	19756
Ion	Ratio	Lower	Upper
75	100		
53	127.5	96.3	144.5
89	46.9	38.6	57.8

Manual Integrations
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4/17/2019 1:49:01 PM



#82

4-Chlorotoluene

Concen: 19.876 ug/l

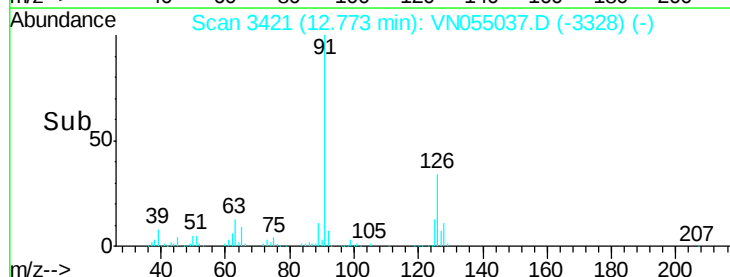
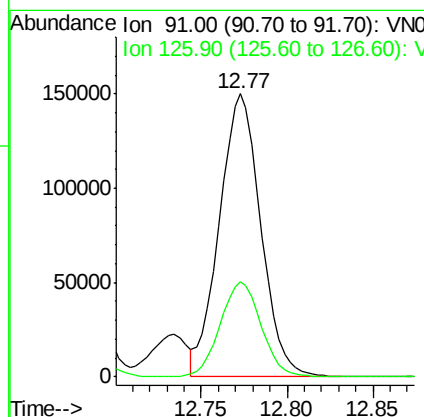
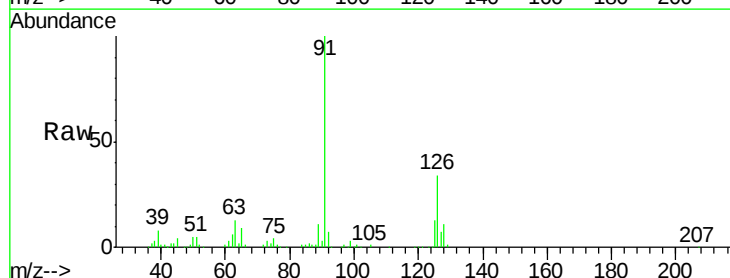
RT: 12.77 min Scan# 3421

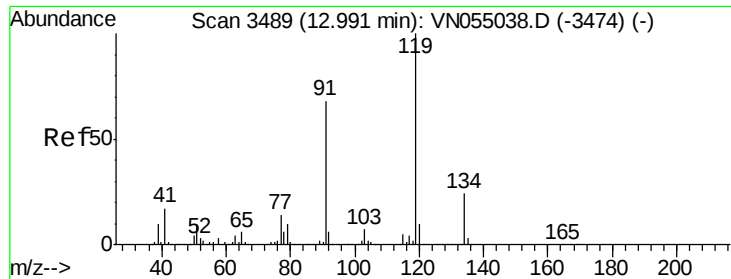
Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion:	91	Resp:	251205
Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.4	49.2





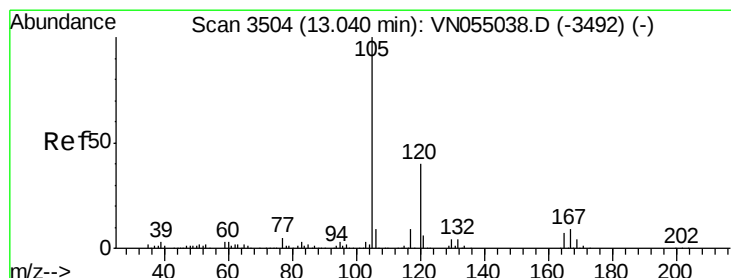
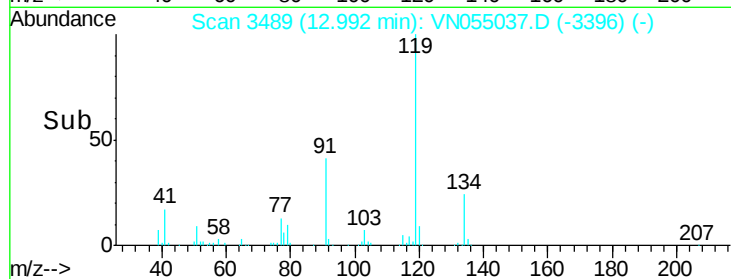
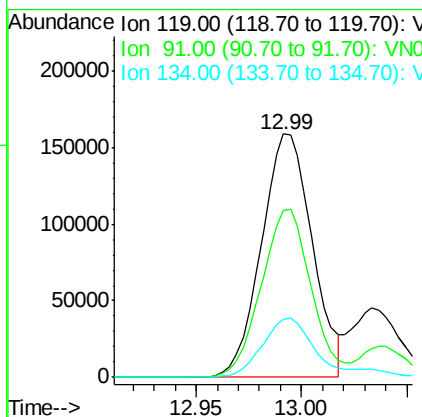
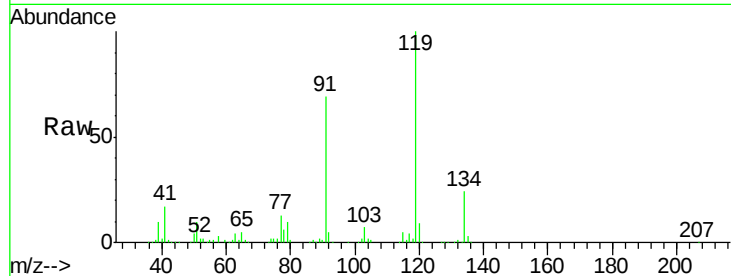
#83
 tert-Butylbenzene
 Concen: 19.686 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	266570		
91	67.3		33.3	99.8
134	24.5		12.3	36.9

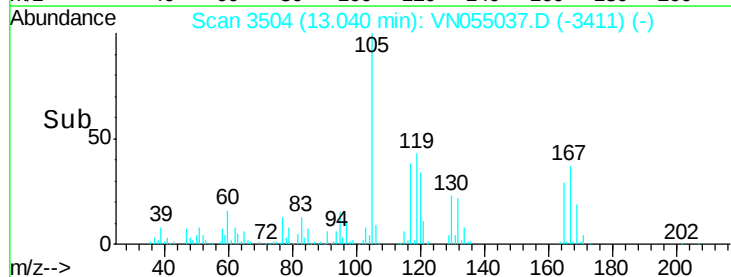
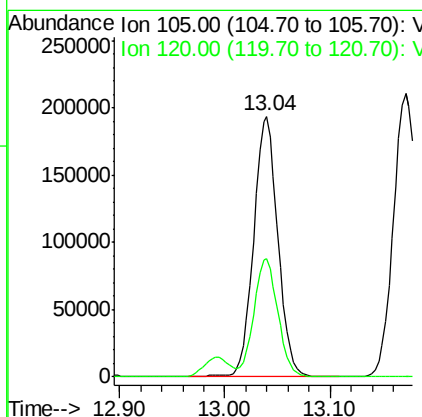
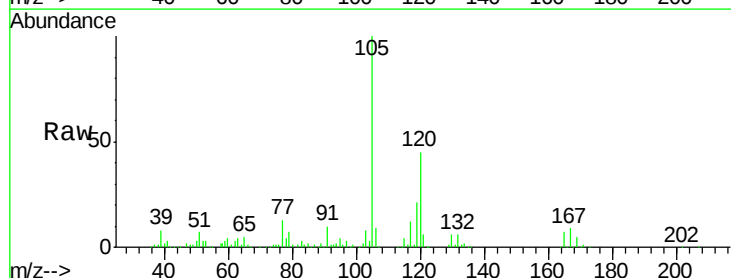
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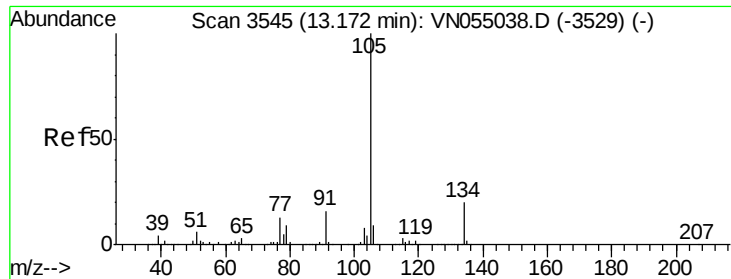
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 4/17/2019 1:49:01 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.451 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	309959		
120	45.1		22.4	67.3





#85

sec-Butylbenzene

Concen: 19.676 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 340176

Ion Ratio Lower Upper

105 100

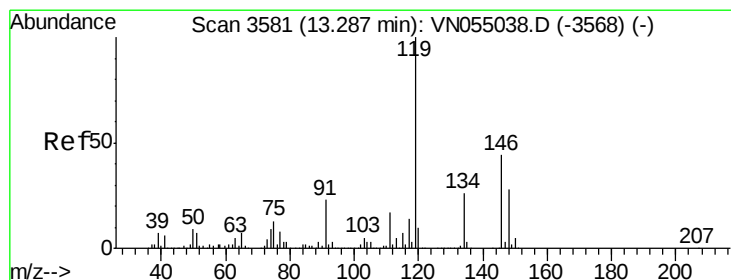
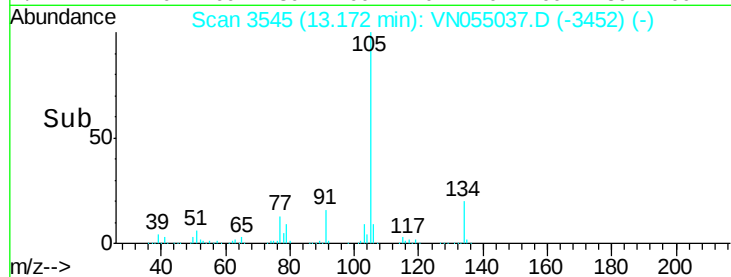
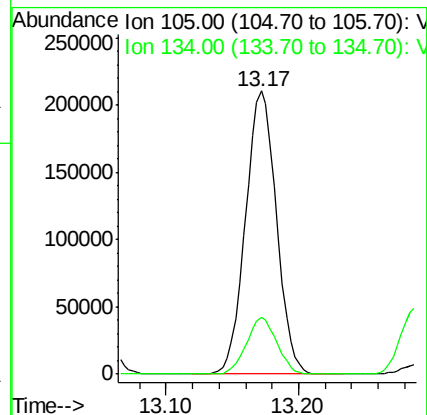
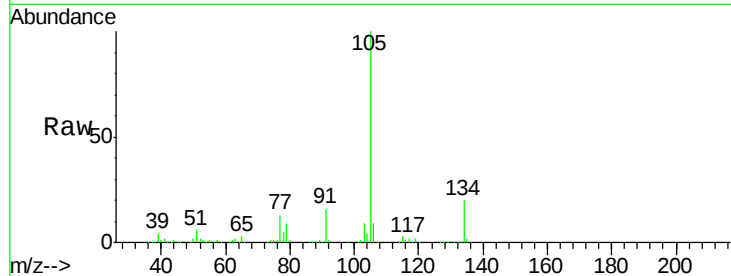
134 19.7 9.8 29.3

Manual Integrations

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4/17/2019 1:49:01 PM



#86

p-Isopropyltoluene

Concen: 19.638 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

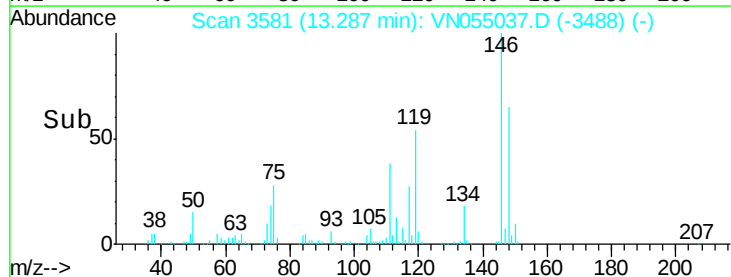
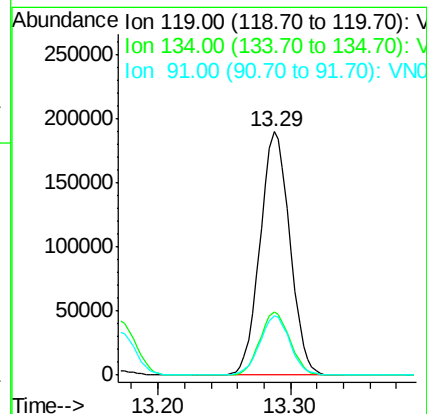
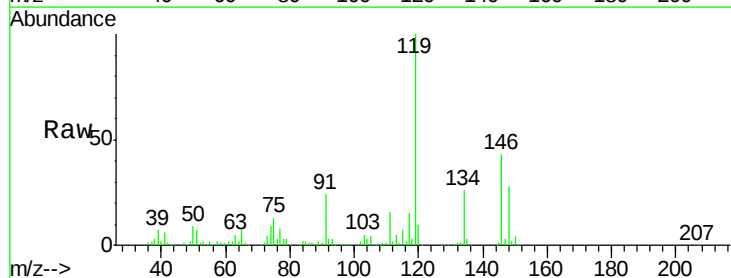
Tgt Ion:119 Resp: 295317

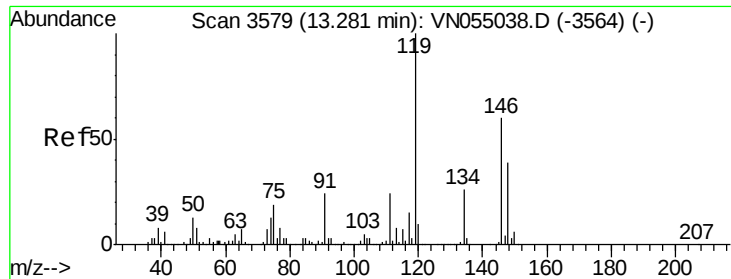
Ion Ratio Lower Upper

119 100

134 26.2 13.2 39.5

91 24.2 11.7 35.1





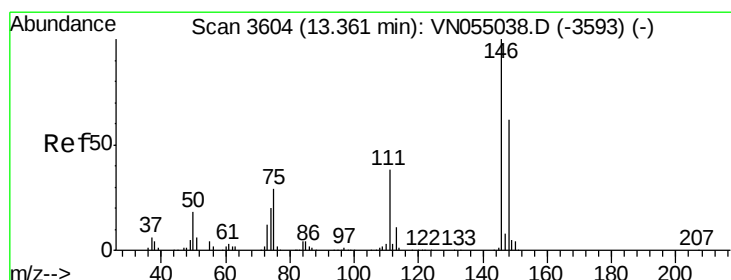
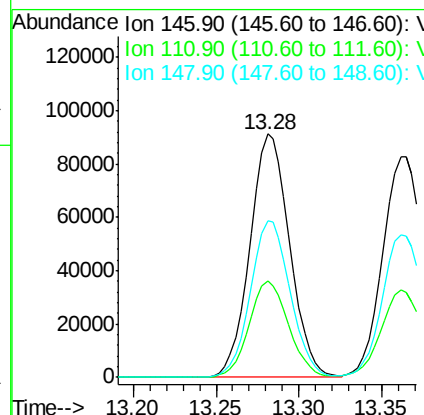
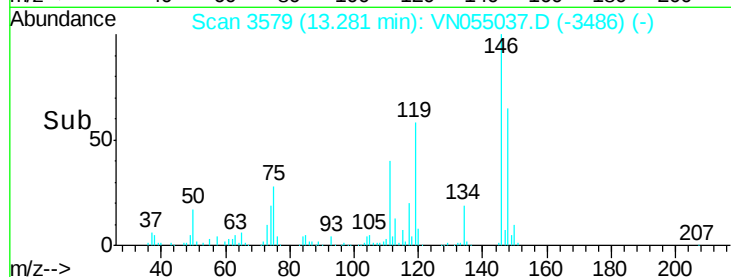
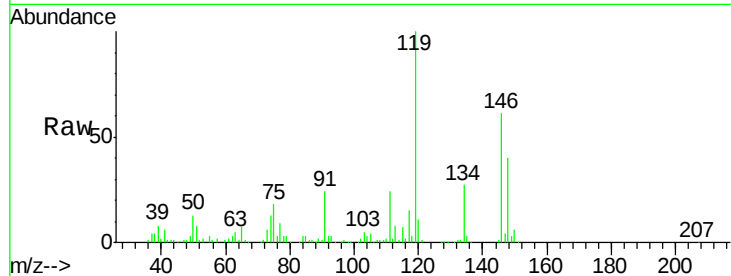
#87
 1,3-Dichlorobenzene
 Concen: 19.627 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.5	58.5
148	64.5	31.6	94.7

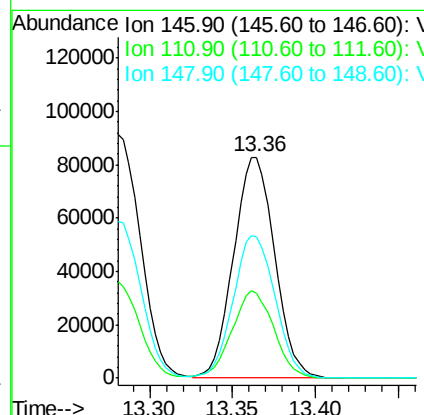
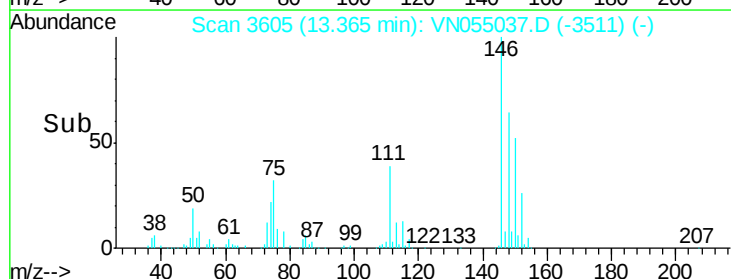
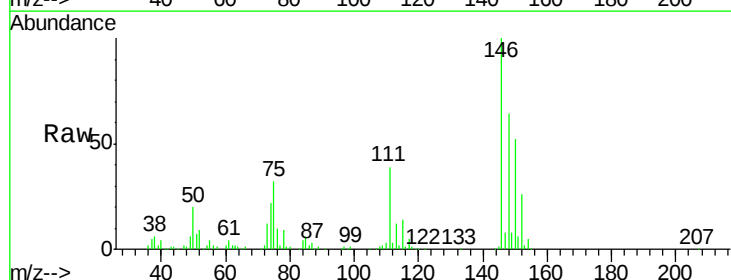
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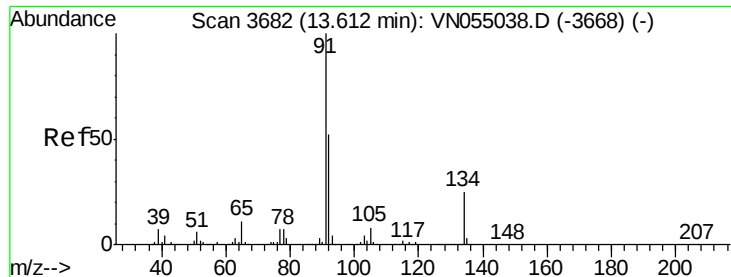
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#88
 1,4-Dichlorobenzene
 Concen: 19.249 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	18.8	56.4
148	65.9	32.4	97.2





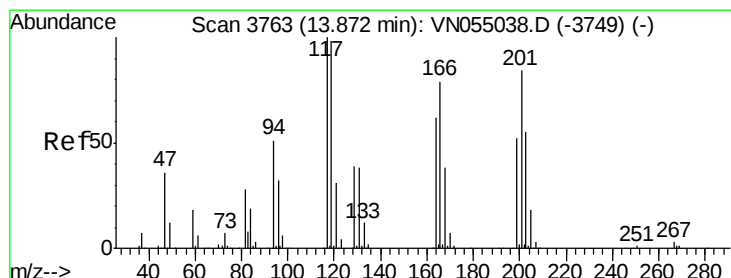
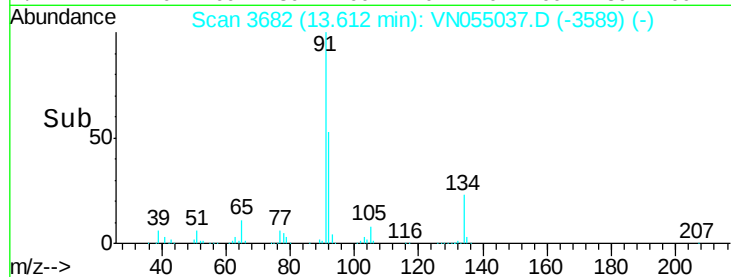
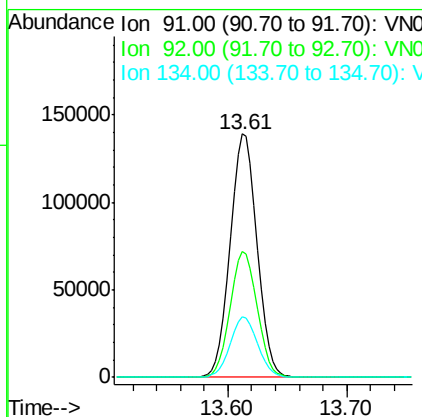
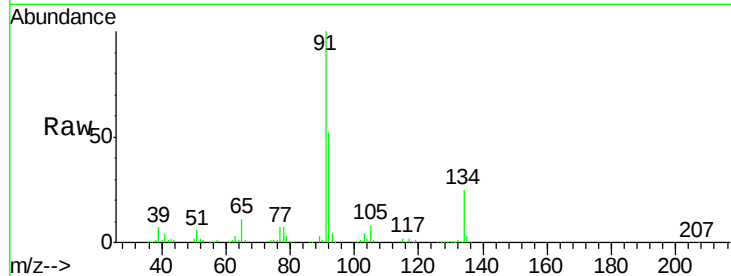
#89
n-Butylbenzene
Concen: 18.430 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	25.9	77.7
134	25.3	12.8	38.3

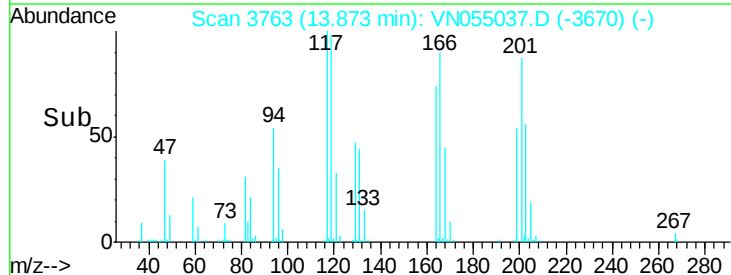
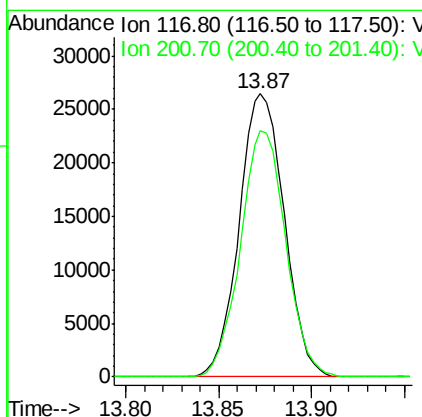
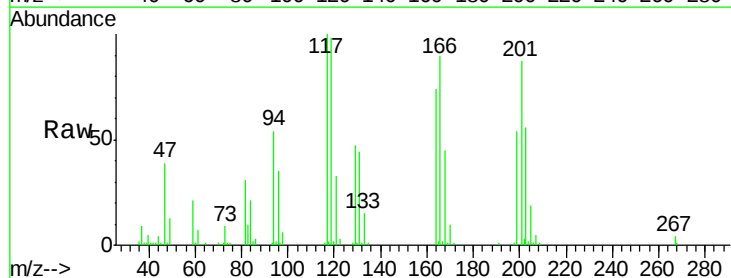
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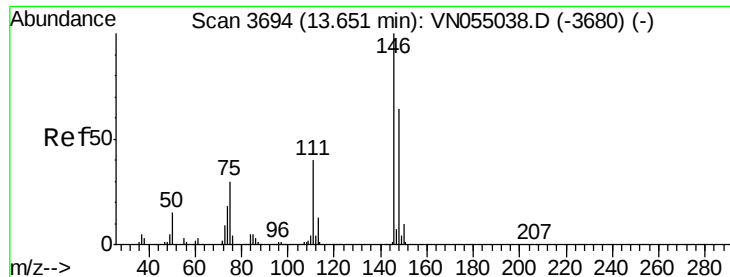
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4/17/2019 1:49:01 PM



#90
Hexachloroethane
Concen: 18.029 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055037.D
Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.3	43.4	130.2





#91

1,2-Dichlorobenzene

Concen: 20.814 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

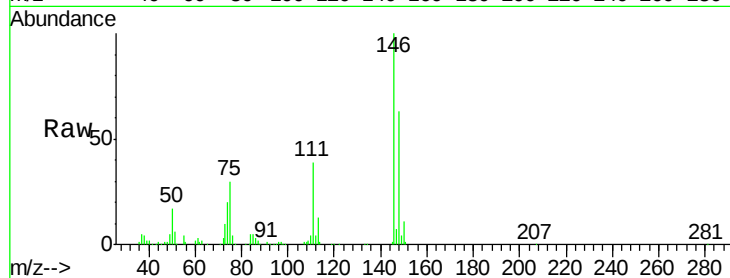
ClientSampleId :

VSTDIC020

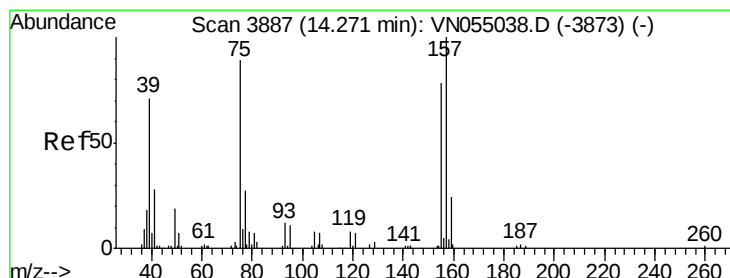
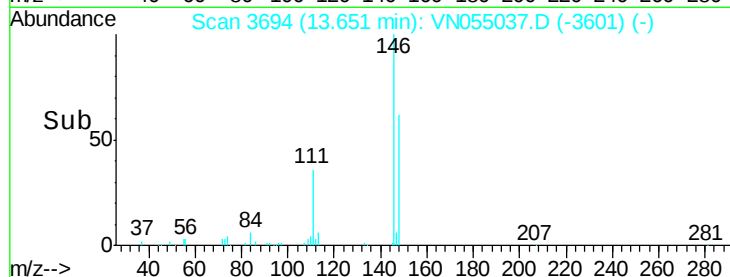
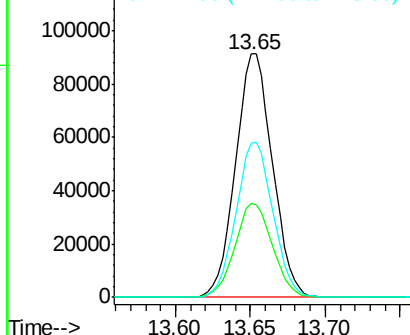
Tot Ion:	146	Resp:	156726
Ion Ratio	Lower	Upper	
146	100		
111	39.4	20.3	60.9
148	63.7	32.2	96.6

Manual Integrations
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4/17/2019 1:49:01 PM



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.876 ug/l

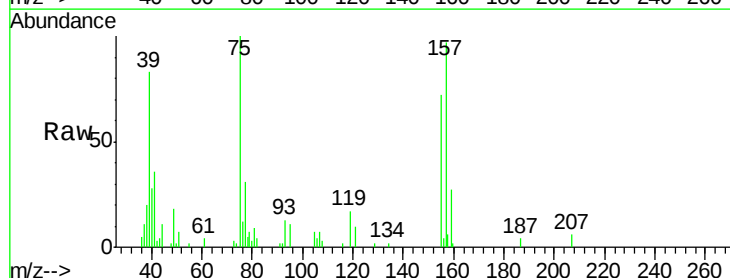
RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

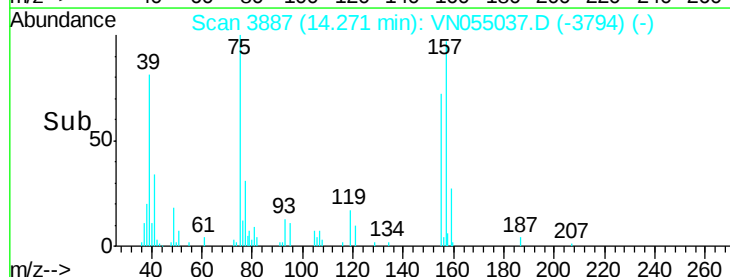
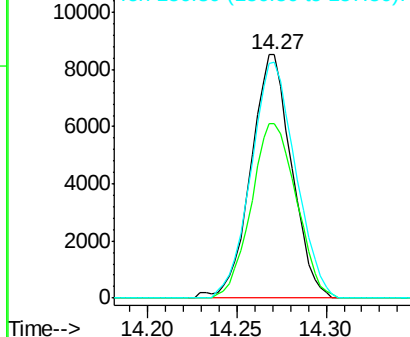
Lab File: VN055037.D

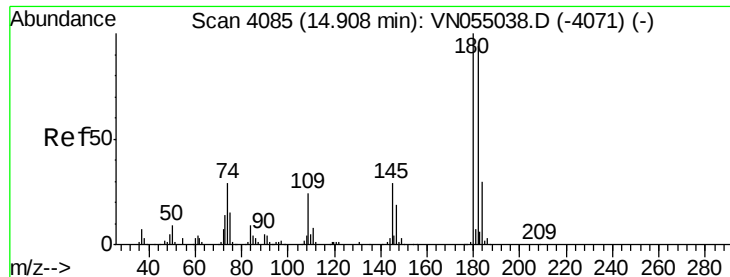
Acq: 15 Apr 2019 10:42

Tgt Ion:	75	Resp:	13646
Ion Ratio	Lower	Upper	
75	100		
155	79.3	42.0	126.0
157	105.5	52.1	156.4



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





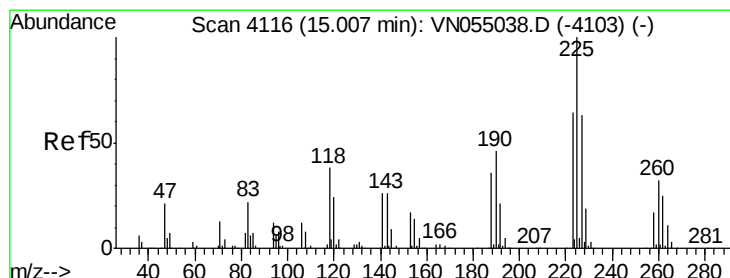
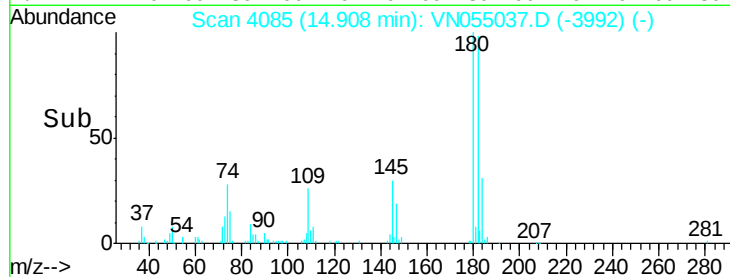
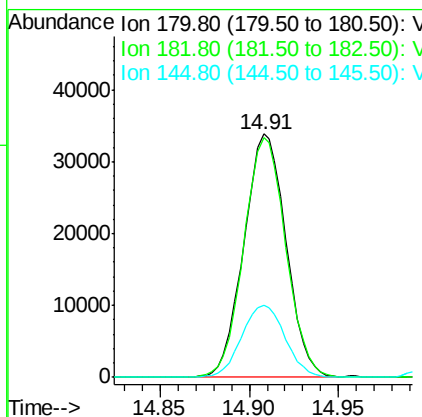
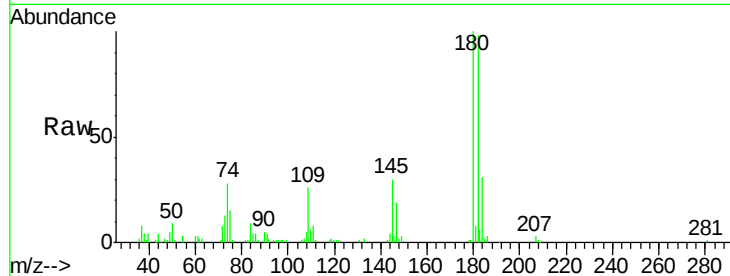
#93
 1,2,4-Trichlorobenzene
 Concen: 17.694 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.5	142.6
145	30.4	14.2	42.8

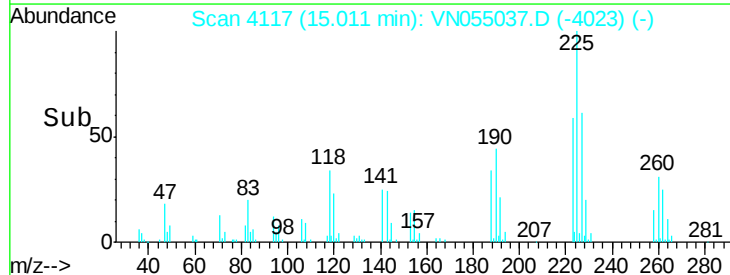
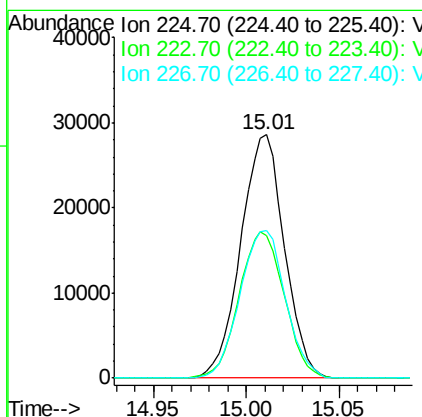
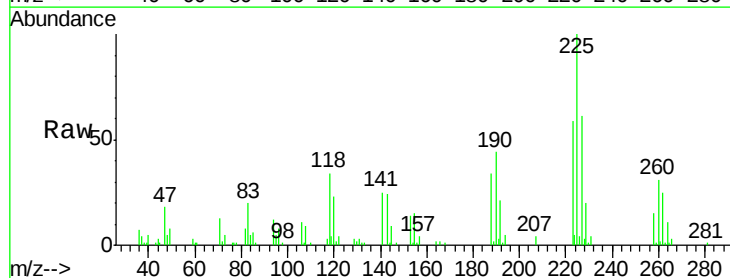
Manual Integrations
 APPROVED

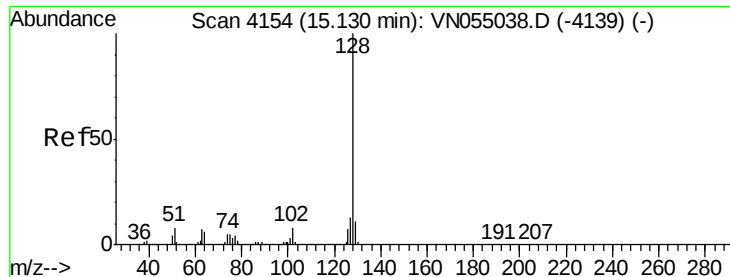
MMDadoda
 4/17/2019 1:49:01 PM



#94
 Hexachlorobutadiene
 Concen: 17.809 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN055037.D
 Acq: 15 Apr 2019 10:42

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.4	94.0
227	63.3	32.6	97.7





#95

Naphthalene

Concen: 17.451 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Instrument :

MSVOA_N

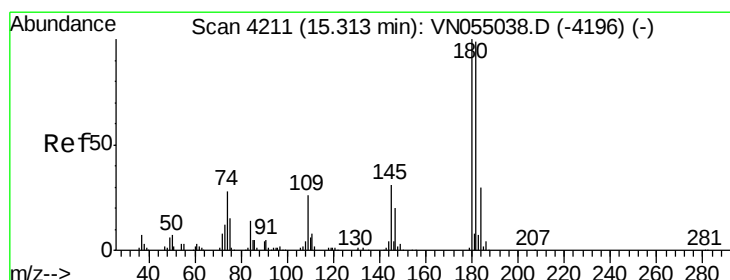
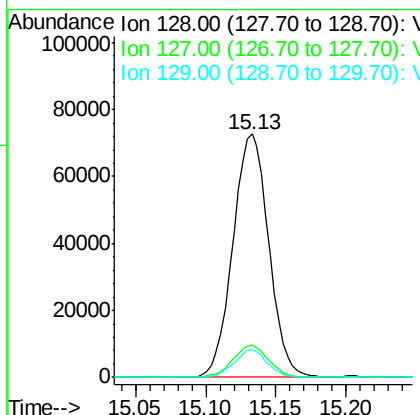
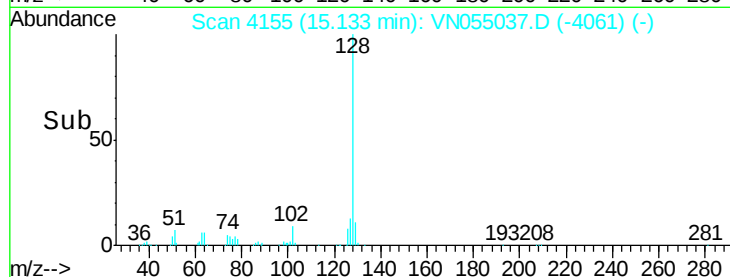
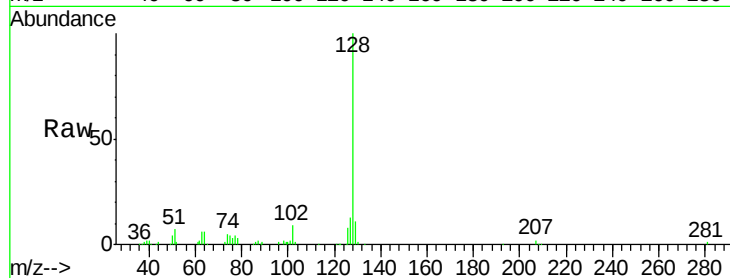
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	129511
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.1	15.1
129	10.5	8.8	13.2

Manual Integrations
APPROVED

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4/17/2019 1:49:01 PM



#96

1,2,3-Trichlorobenzene

Concen: 17.485 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055037.D

Acq: 15 Apr 2019 10:42

Tgt Ion:	180	Resp:	59393
Ion Ratio	Lower	Upper	
180	100		
182	97.0	48.0	144.0
145	30.5	15.3	45.9

