

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058336.D
 Acq On : 24 Sep 2019 10:08
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:22:47 AM

Quant Time: Sep 25 01:24:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:14:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	96929	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	574742	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	502625	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	261719	30.74	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.47%
60) 4-Bromofluorobenzene	12.41	95	250243	28.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.53%
63) Toluene-d8	10.08	98	729002	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	27463	4.650 ug/l	94
3) Chloromethane	2.03	50	33292	4.634 ug/l	98
4) Vinyl Chloride	2.17	62	33735	4.609 ug/l	95
5) Bromomethane	2.54	94	17737	4.053 ug/l	99
6) Chloroethane	2.69	64	22063	4.894 ug/l	98
7) Trichlorofluoromethane	3.00	101	39743	4.778 ug/l	100
8) Diethyl Ether	3.39	74	18426	5.286 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	28085	5.200 ug/l	97
10) 1,1-Dichloroethene	3.72	96	27506	5.302 ug/l	96
11) Methyl Iodide	3.93	142	20061	3.089 ug/l	99
12) Methyl Acetate	4.30	43	35490	5.087 ug/l	96
13) Acrolein	3.60	56	3468m	9.785 ug/l	
14) Acrylonitrile	4.97	53	70196	24.431 ug/l	99
15) Acetone	3.80	58	22410	27.631 ug/l	95
16) Carbon Disulfide	4.03	76	68016	5.464 ug/l	98
17) Allyl chloride	4.30	41	48883	5.118 ug/l	88
18) Methylene Chloride	4.53	84	33081	5.123 ug/l	91
19) trans-1,2-Dichloroethene	5.01	96	30273	5.237 ug/l	92
20) Diisopropyl ether	5.93	45	101222	4.637 ug/l	95
21) 1,1-Dichloroethane	5.83	63	61980	5.151 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	35073	5.010 ug/l	97
23) tert-Butyl Alcohol	4.76	59	27579	28.909 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	98170	5.022 ug/l	96
25) Chloroform	7.36	83	62409	5.089 ug/l	94
26) Cyclohexane	7.64	56	54311	5.233 ug/l	# 99
29) 1,1-Dichloropropene	7.78	75	46062	5.023 ug/l	98
30) 2-Butanone	6.82	43	105049	25.500 ug/l	99
31) 2,2-Dichloropropane	6.80	77	46459	4.803 ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	49637	4.858 ug/l	99
33) Carbon Tetrachloride	7.76	117	39853	4.715 ug/l	95
34) Benzene	8.03	78	134948	5.006 ug/l	# 68
35) Methacrylonitrile	7.16	41	20230	5.201 ug/l	97
36) 1,2-Dichloroethane	8.11	62	53549	5.123 ug/l	100
37) Trichloroethene	8.83	130	34173	5.189 ug/l	94
38) Methylcyclohexane	9.07	83	54339	5.155 ug/l	99
39) 1,2-Dichloropropane	9.11	63	36211	4.818 ug/l	98
40) Dibromomethane	9.20	93	22742	4.946 ug/l	99

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 ALS Vial : 3 Sample Multiplier: 1

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	41374	4.461	ug/l #	99
42) Vinyl Acetate	5.87	43	409681	24.804	ug/l	99
43) Ethyl Acetate	6.91	43	40536	4.864	ug/l	99
44) Isopropyl Acetate	8.15	43	74103	5.011	ug/l	96
45) 1,4-Dioxane	9.19	88	12171	102.927	ug/l	94
46) Methyl methacrylate	9.19	41	34194	4.783	ug/l	98
47) n-amyl Acetate	12.08	43	56264	4.199	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	43985	4.430	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	48354	4.332	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	31415	4.738	ug/l	97
51) Ethyl methacrylate	10.43	69	46110	4.460	ug/l	97
52) 1,3-Dichloropropane	10.71	76	57428	4.927	ug/l	99
53) Dibromochloromethane	10.90	129	26737	4.038	ug/l	100
54) 1,2-Dibromoethane	11.00	107	32357	4.872	ug/l	94
55) 2-Chloroethyl vinyl ether	9.69	63	93248	19.628	ug/l	99
56) Bromoform	12.13	173	15493	3.779	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	208909	26.577	ug/l	98
59) 2-Hexanone	10.75	43	153664	26.028	ug/l	99
61) Tetrachloroethene	10.63	164	27586	5.342	ug/l	94
62) Toluene	10.15	91	143950	5.154	ug/l	99
64) Chlorobenzene	11.44	112	85275	4.925	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	28180	4.674	ug/l	97
66) Ethyl Benzene	11.51	91	155051	5.072	ug/l	99
67) m/p-Xylenes	11.62	106	113869	9.752	ug/l	100
68) o-Xylene	11.95	106	54449	4.752	ug/l	96
69) Styrene	11.97	104	88669	4.566	ug/l	99
70) Isopropylbenzene	12.26	105	147837	4.914	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	45180	4.806	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	38365m	4.599	ug/l	
73) Bromobenzene	12.53	156	34701	4.781	ug/l	98
74) n-propylbenzene	12.60	91	170367	4.945	ug/l	100
75) 2-Chlorotoluene	12.68	91	99672	4.636	ug/l	99
76) 1,3,5-Trimethylbenzene	12.74	105	122867	4.779	ug/l	100
77) t-1,4-Dichloro-2-butene	12.31	75	7881	3.116	ug/l	85
78) 4-Chlorotoluene	12.78	91	102105	4.635	ug/l	99
79) tert-butylbenzene	13.00	119	107916	4.844	ug/l	98
80) 1,2,4-Trimethylbenzene	13.05	105	121303	4.724	ug/l	100
81) sec-Butylbenzene	13.18	105	141165	4.739	ug/l	99
82) p-Isopropyltoluene	13.30	119	124832	4.699	ug/l	98
83) 1,3-Dichlorobenzene	13.29	146	63255	4.714	ug/l	95
84) 1,4-Dichlorobenzene	13.37	146	60218	4.545	ug/l	100
85) n-Butylbenzene	13.62	91	108994	4.414	ug/l	98
86) Hexachloroethane	13.88	117	16493	3.859	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	61230	4.682	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.28	75	8085	4.789	ug/l	95
89) 1,2,4-Trichlorobenzene	14.92	180	34723	4.331	ug/l	97
90) Hexachlorobutadiene	15.02	225	18470	4.985	ug/l	96
91) Naphthalene	15.14	128	96007	4.378	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	34375	4.510	ug/l	99

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ALS Vial : 3 Sample Multiplier: 1

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MSVOA_N
ClientSampleId :
VSTDICC005

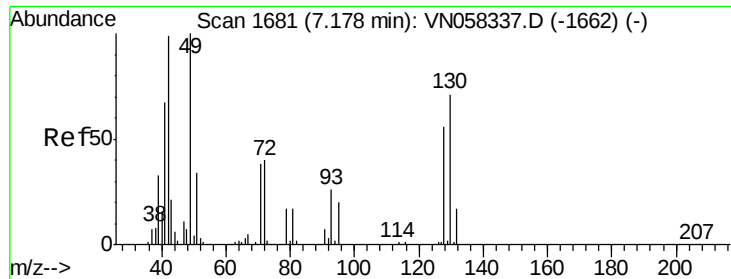
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:128 Resp: 96929

Ion Ratio Lower Upper

128 100

49 181.2 0.0 458.5

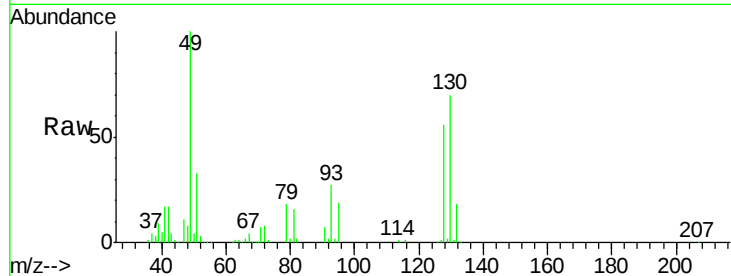
130 128.5 0.0 320.7

Manual Integrations

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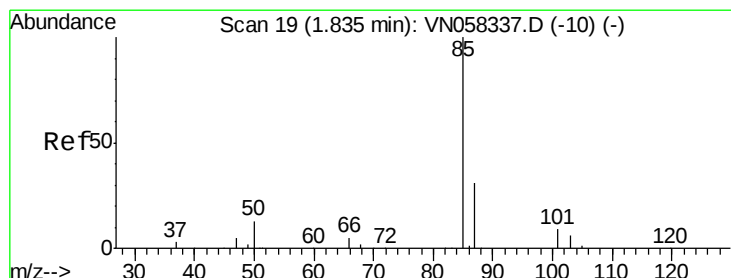
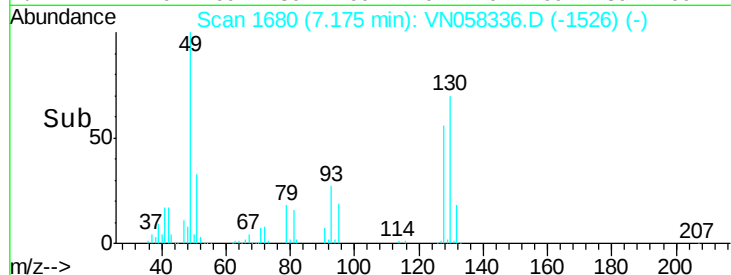
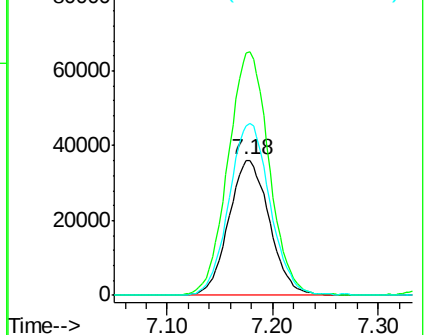
9/25/2019 8:22:47 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 4.650 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058336.D

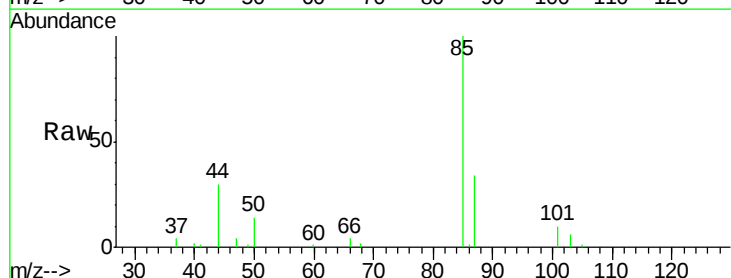
Acq: 24 Sep 2019 10:08

Tgt Ion: 85 Resp: 27463

Ion Ratio Lower Upper

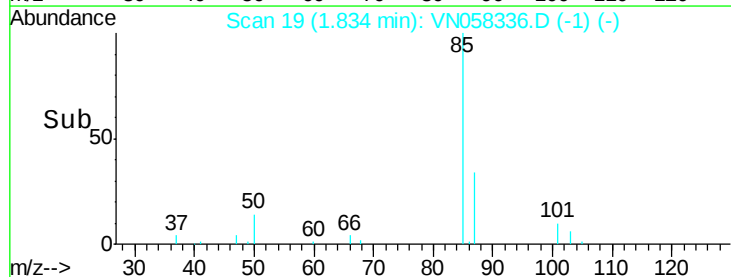
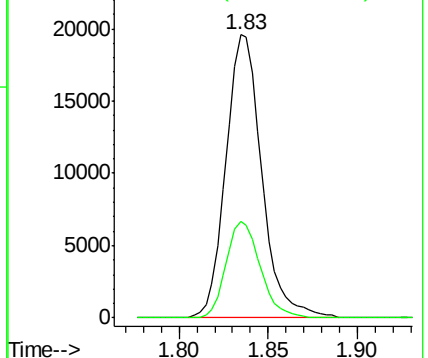
85 100

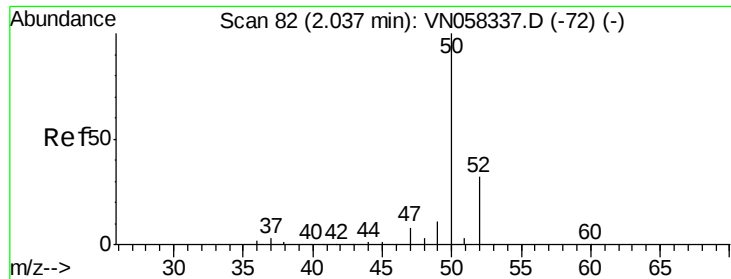
87 34.1 15.5 46.5



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 4.634 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 33292

Ion Ratio Lower Upper

50 100

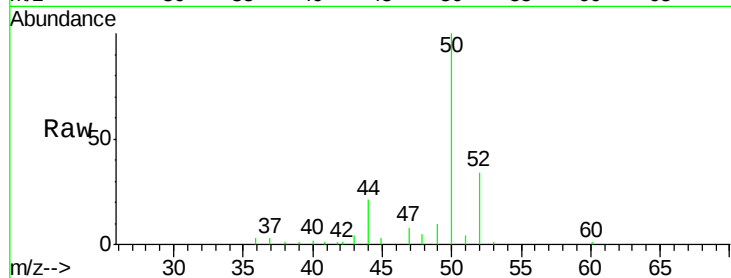
52 33.5 25.9 38.9

Manual Integrations

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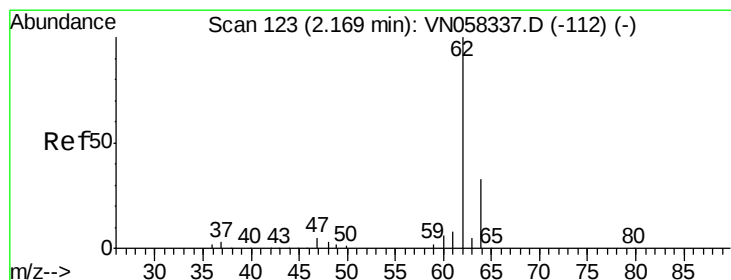
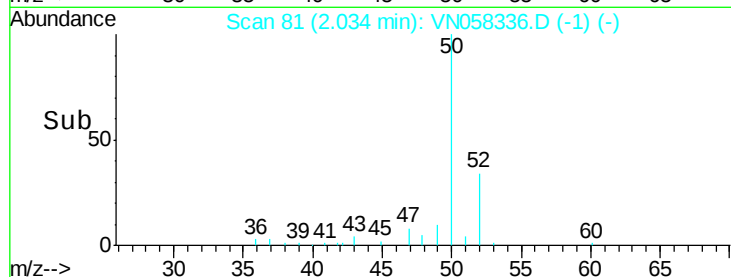
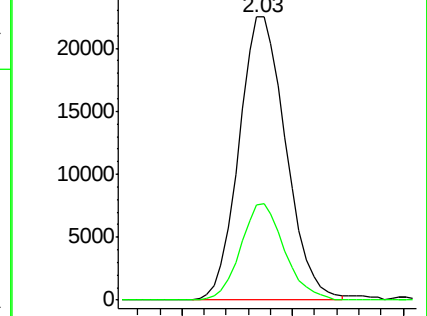
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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 4.609 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058336.D

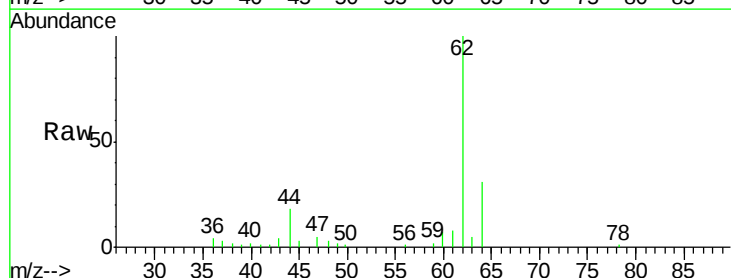
Acq: 24 Sep 2019 10:08

Tgt Ion: 62 Resp: 33735

Ion Ratio Lower Upper

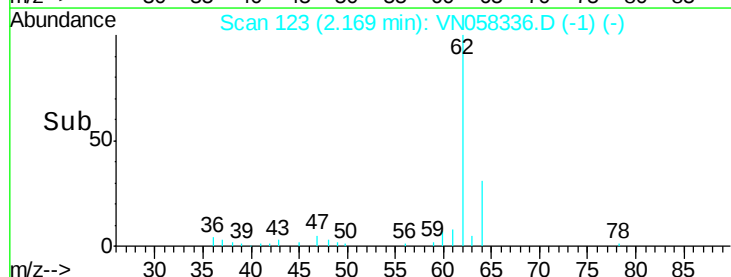
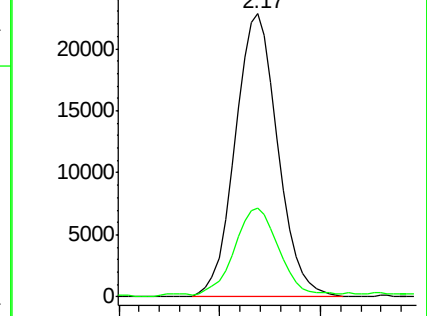
62 100

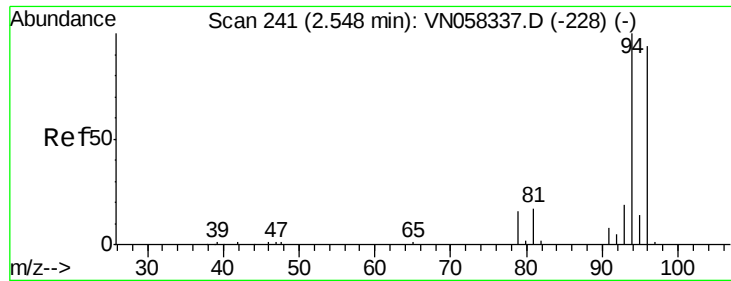
64 30.6 26.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 4.053 ug/l

RT: 2.54 min Scan# 240

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 17737

Ion Ratio Lower Upper

94 100

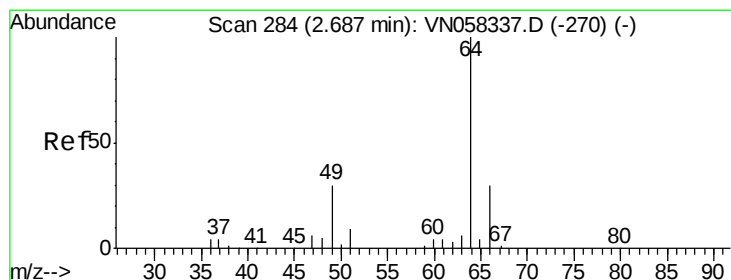
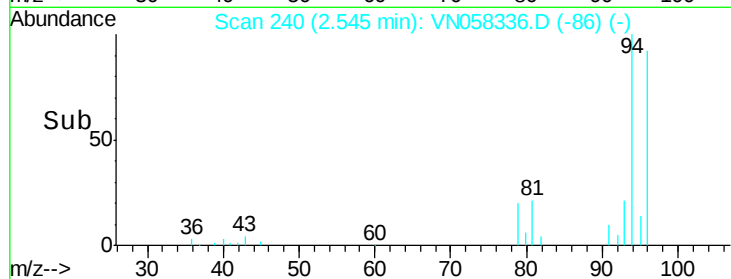
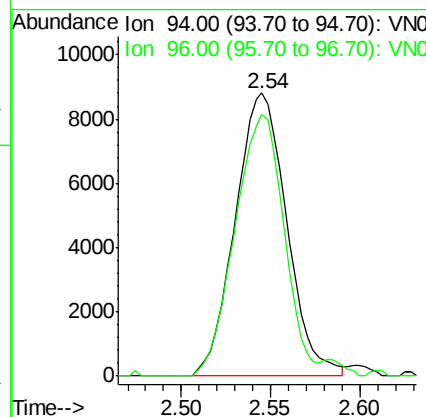
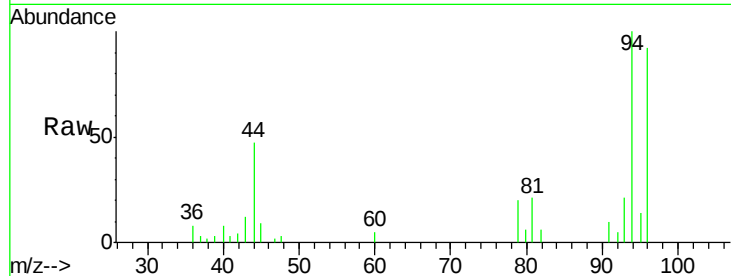
96 92.3 74.8 112.2

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9/25/2019 8:22:47 AM



#6

Chloroethane

Concen: 4.894 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.00 min

Lab File: VN058336.D

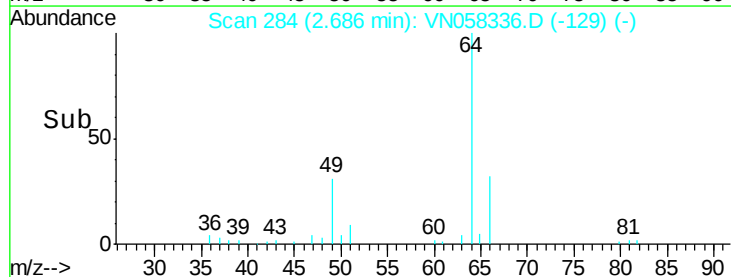
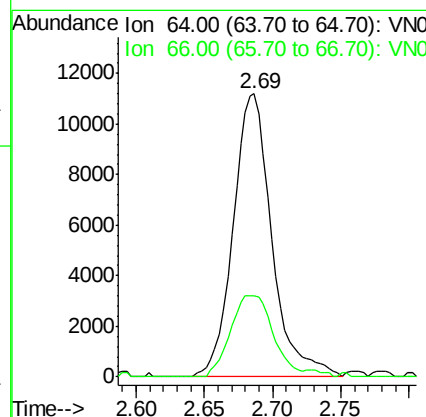
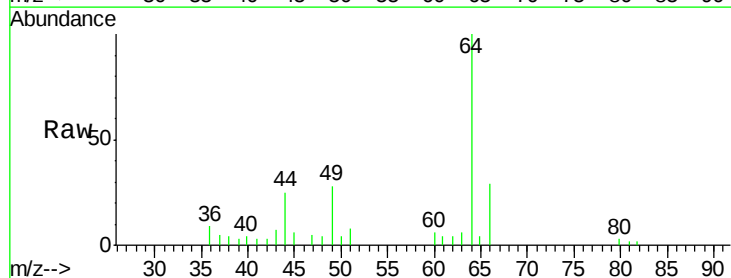
Acq: 24 Sep 2019 10:08

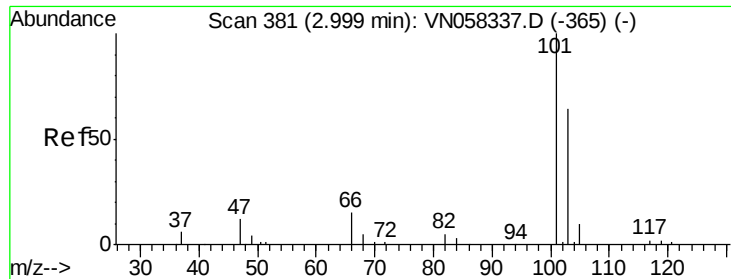
Tgt Ion: 64 Resp: 22063

Ion Ratio Lower Upper

64 100

66 28.6 23.8 35.6





#7

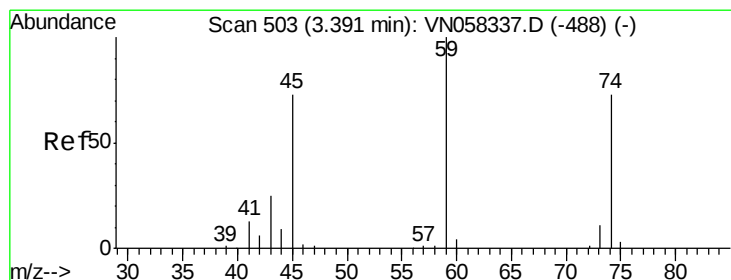
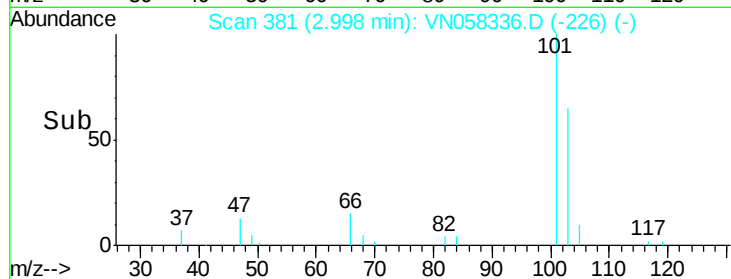
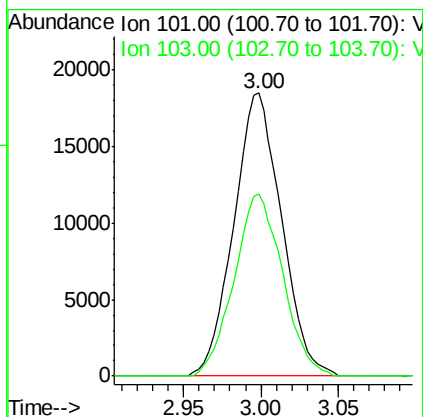
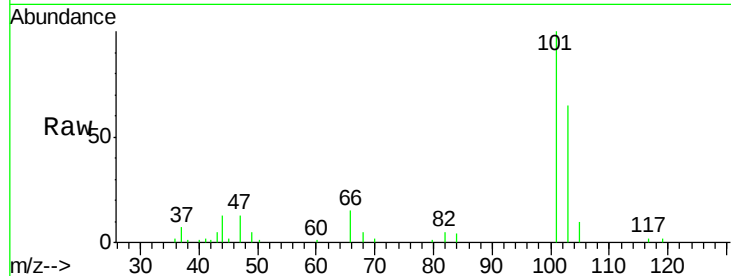
Trichlorofluoromethane
Concen: 4.778 ug/l
RT: 3.00 min Scan# 381
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 39743
Ion Ratio Lower Upper
101 100
103 64.5 51.5 77.3

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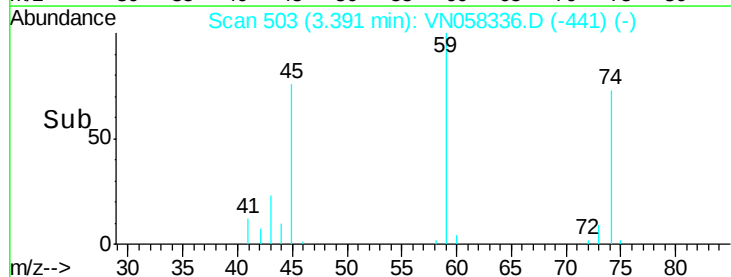
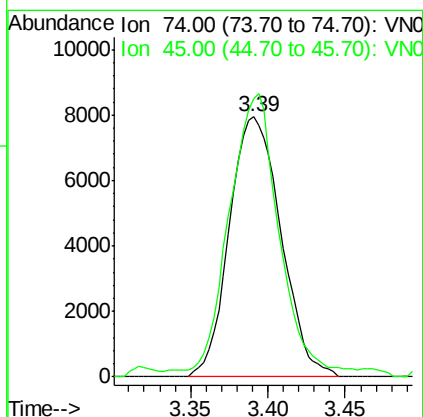
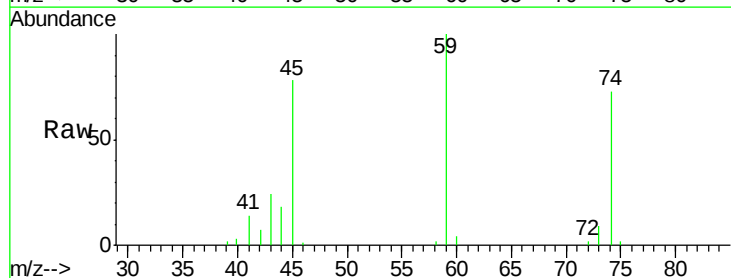
MMDadoda
9/25/2019 8:22:47 AM

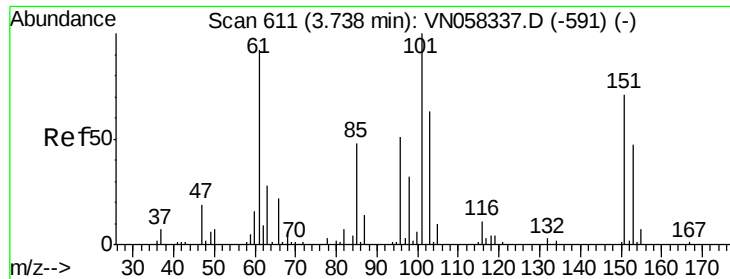


#8

Diethyl Ether
Concen: 5.286 ug/l
RT: 3.39 min Scan# 503
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion: 74 Resp: 18426
Ion Ratio Lower Upper
74 100
45 106.4 20.8 187.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.200 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

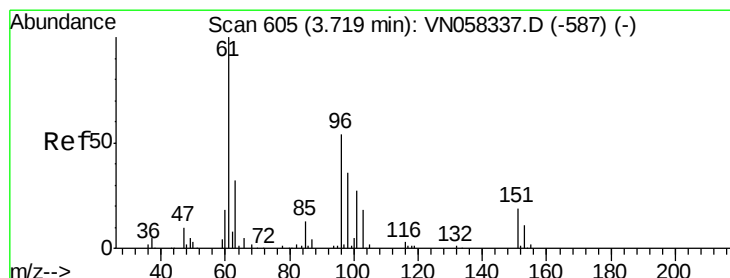
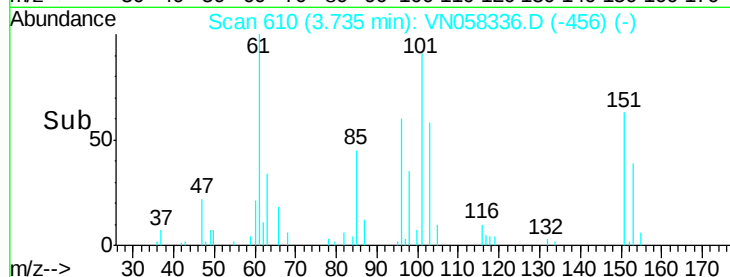
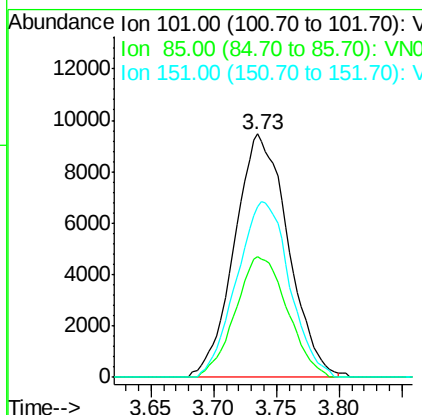
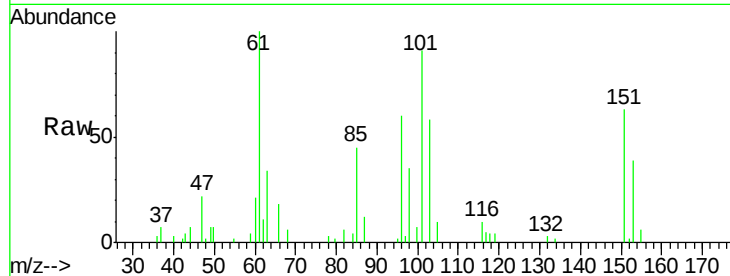
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	28085
Ion Ratio	Lower	Upper	
101	100		
85	48.1	0.0	93.0
151	71.0	0.0	147.2

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#10

1,1-Dichloroethene

Concen: 5.302 ug/l

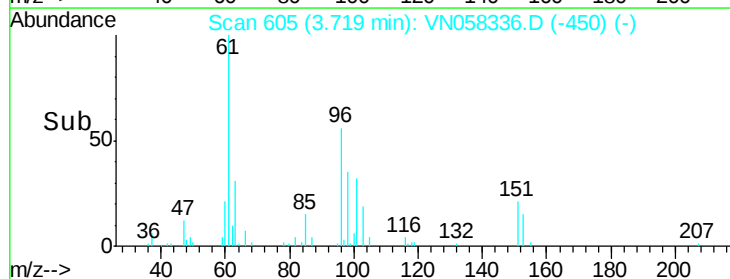
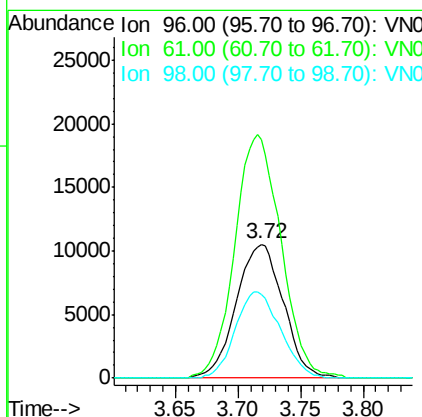
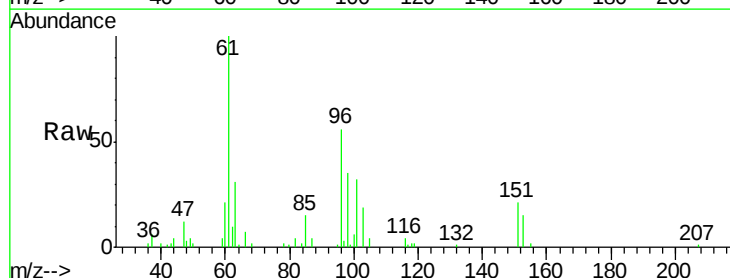
RT: 3.72 min Scan# 605

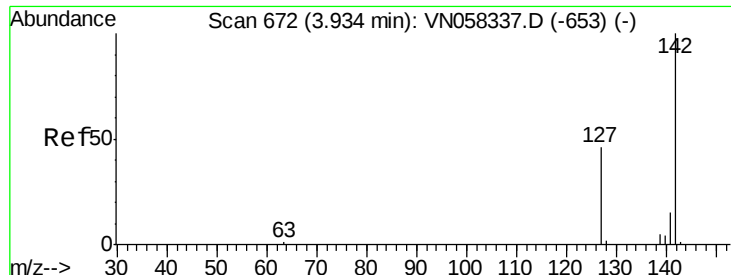
Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Tgt Ion:	96	Resp:	27506
Ion Ratio	Lower	Upper	
96	100		
61	178.2	146.9	220.3
98	62.7	52.3	78.5





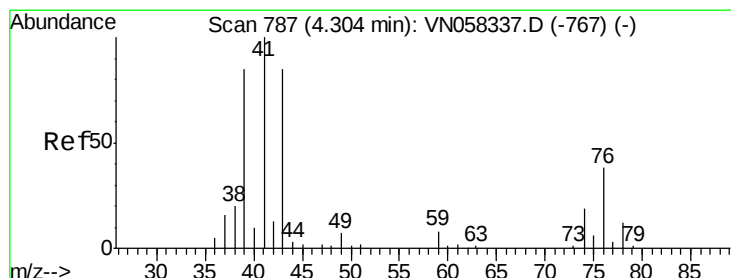
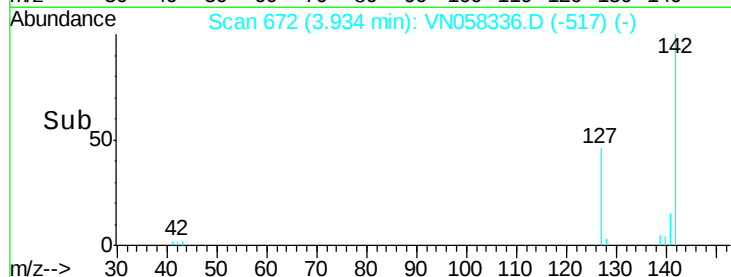
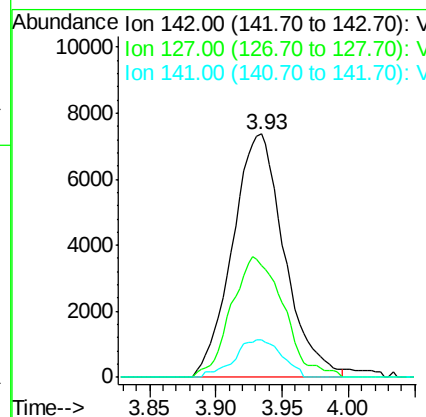
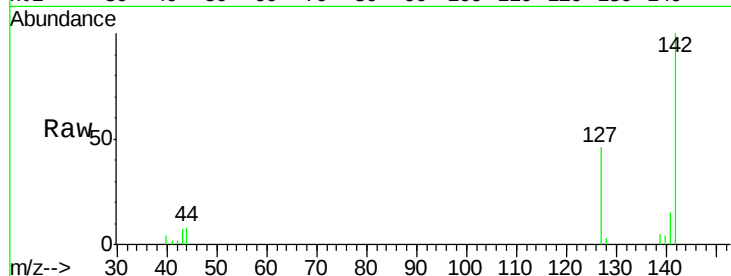
#11
Methyl Iodide
Concen: 3.089 ug/l
RT: 3.93 min Scan# 672
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
142	100		
127	46.7	22.9	68.7
141	15.6	7.4	22.3

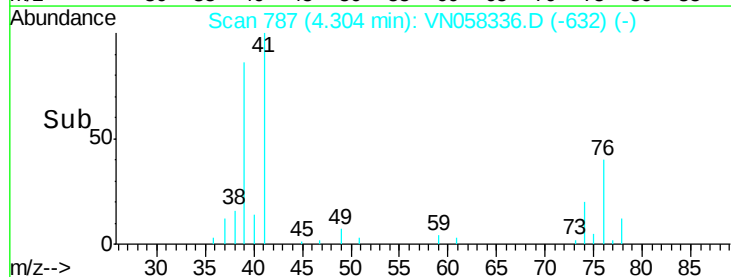
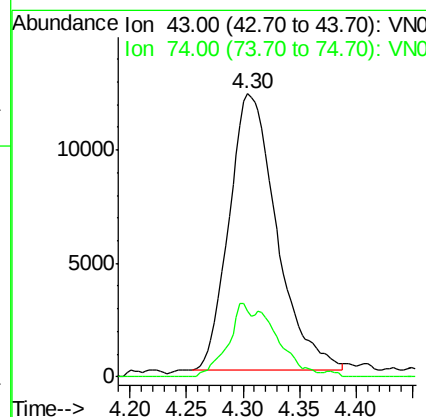
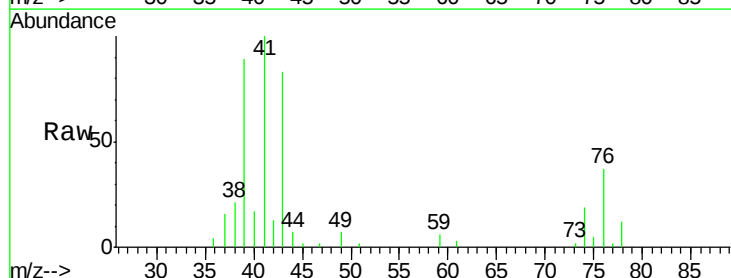
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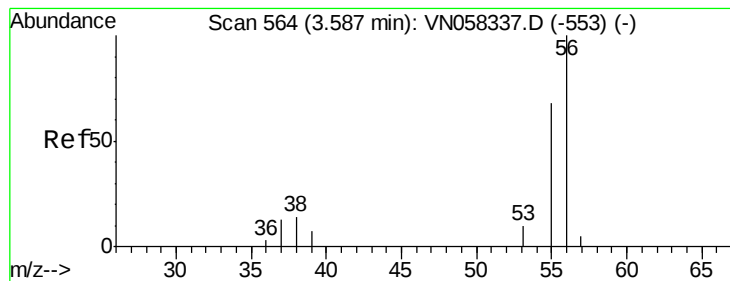
MMDadoda
9/25/2019 8:22:47 AM



#12
Methyl Acetate
Concen: 5.087 ug/l
RT: 4.30 min Scan# 787
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.1	17.8	26.6





#13

Acrolein

Concen: 9.785 ug/l m

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 3468

Ion Ratio Lower Upper

56 100

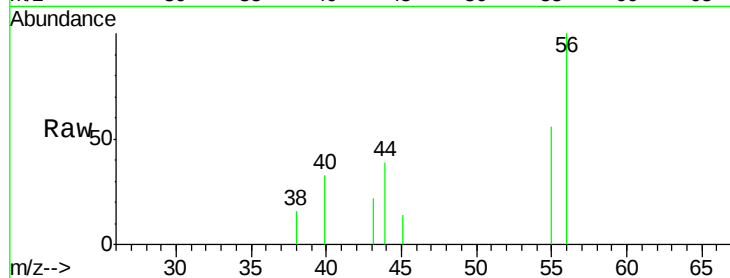
55 1.8 58.4 87.6#

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

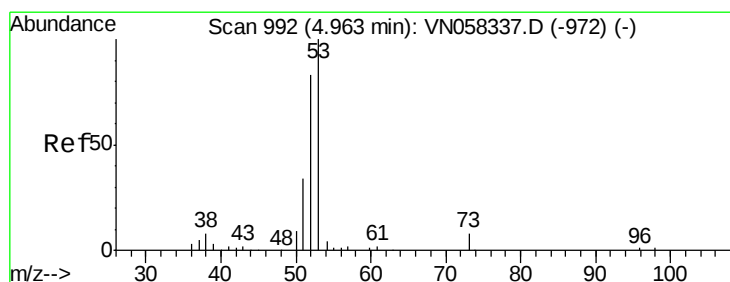
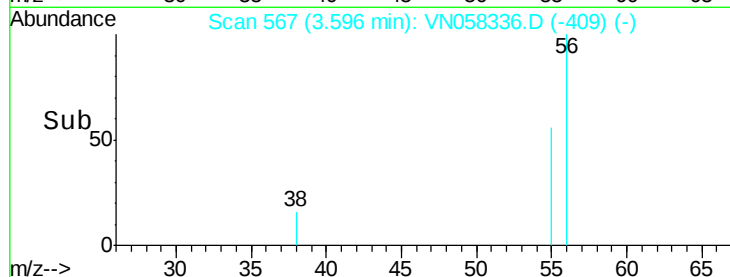
1500

1000

500

0

Time-->



#14

Acrylonitrile

Concen: 24.431 ug/l

RT: 4.97 min Scan# 993

Delta R.T. 0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

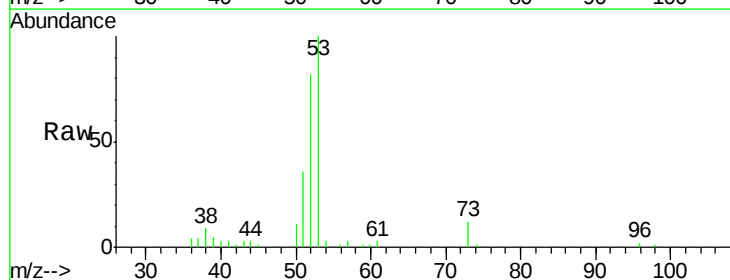
Tgt Ion: 53 Resp: 70196

Ion Ratio Lower Upper

53 100

52 83.1 41.3 123.7

51 36.4 18.3 54.8



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

4.97

25000

20000

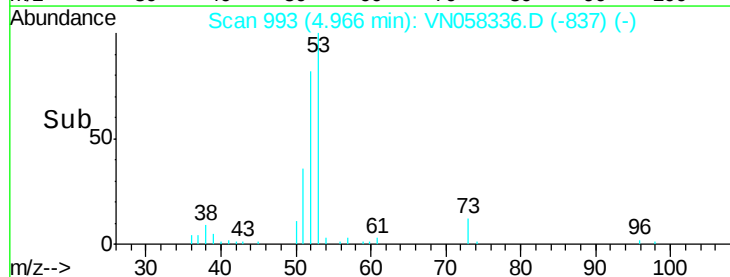
15000

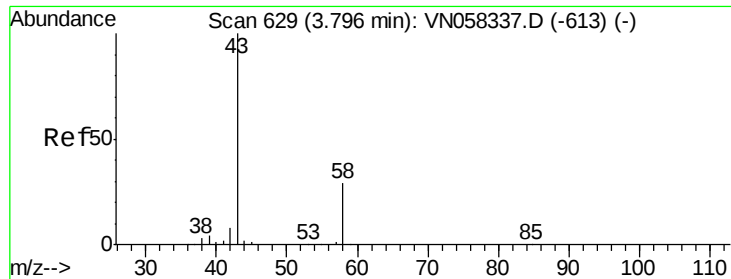
10000

5000

0

Time-->





#15

Acetone

Concen: 27.631 ug/l

RT: 3.80 min Scan# 629

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 58 Resp: 22410

Ion Ratio Lower Upper

58 100

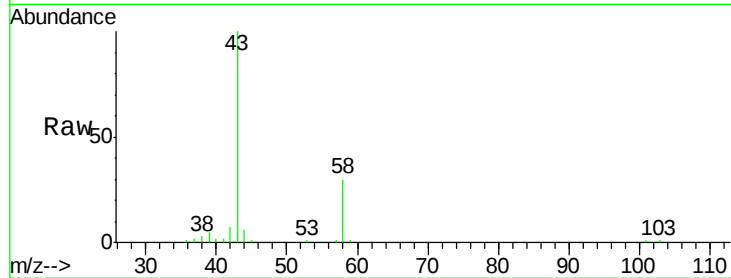
43 329.7 272.6 409.0

Manual Integrations

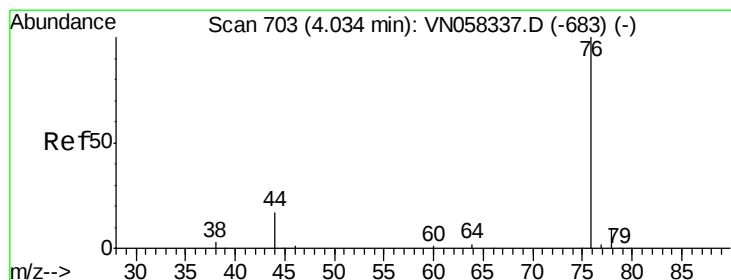
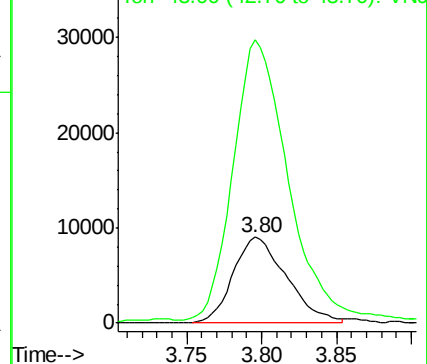
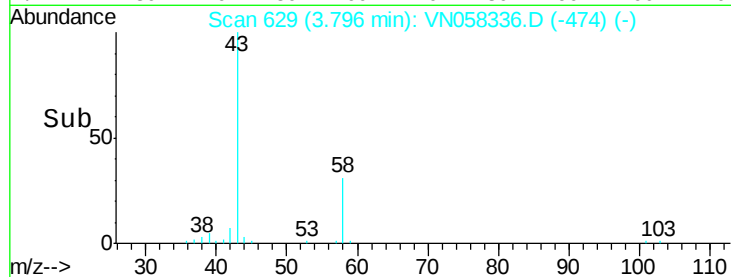
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Abundance Ion 58.00 (57.70 to 58.70): VN058336.D (-474) (-)



#16

Carbon Disulfide

Concen: 5.464 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058336.D

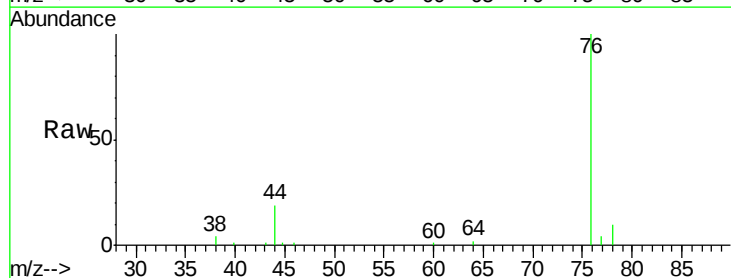
Acq: 24 Sep 2019 10:08

Tgt Ion: 76 Resp: 68016

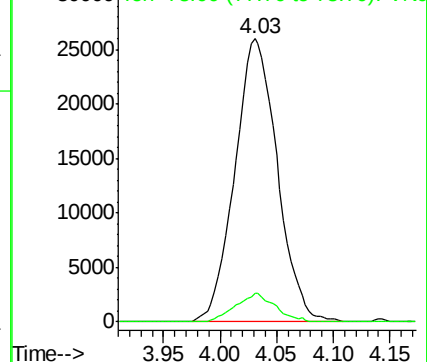
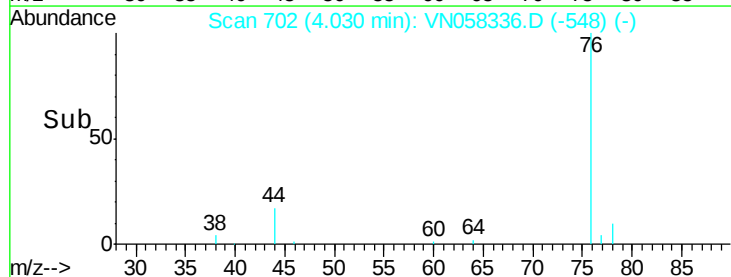
Ion Ratio Lower Upper

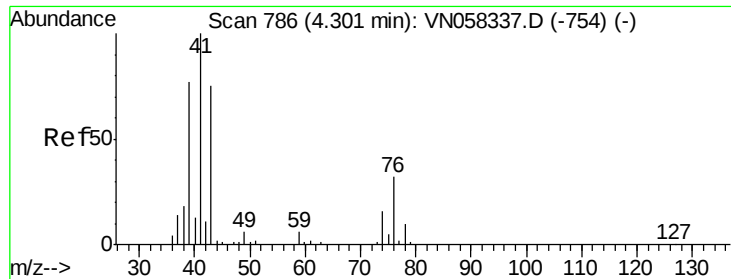
76 100

78 10.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VN058336.D (-548) (-)





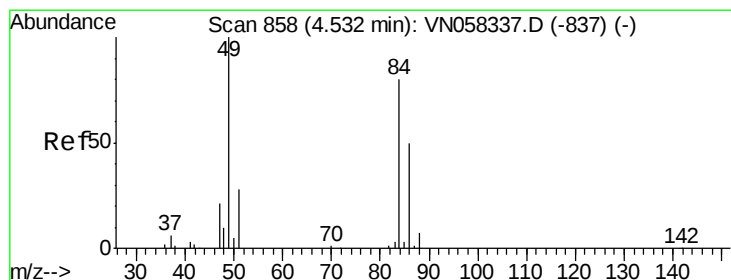
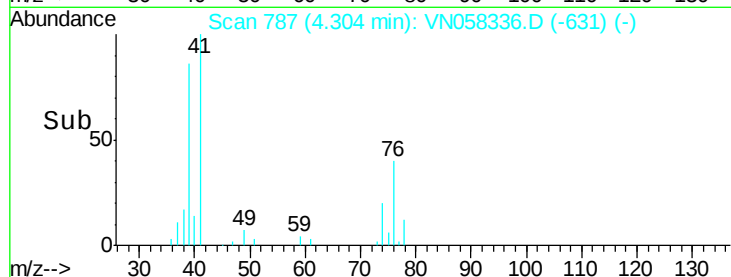
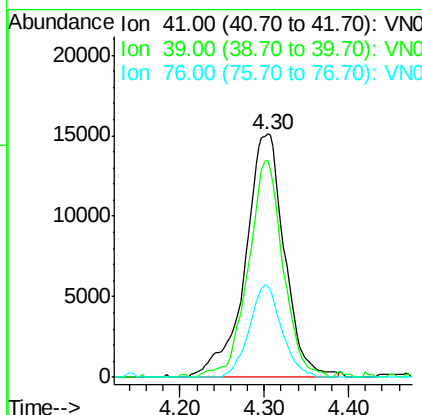
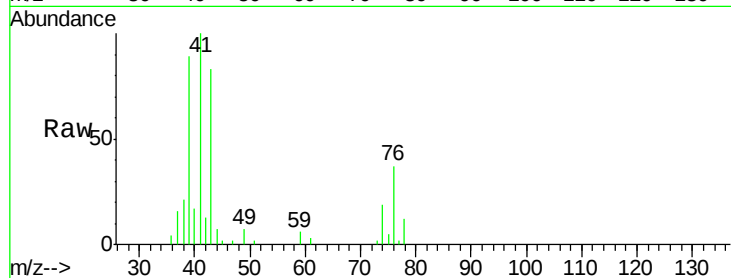
#17
Allvl chloride
Concen: 5.118 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	89.2	38.7	116.1
76	37.5	16.4	49.1

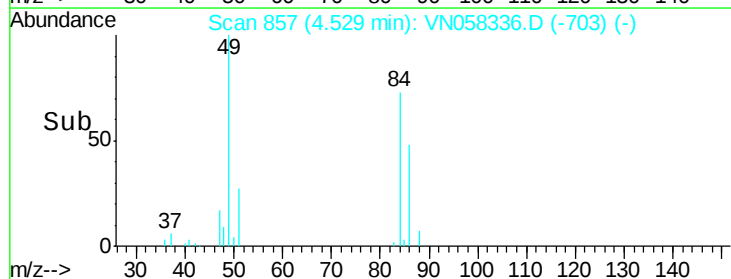
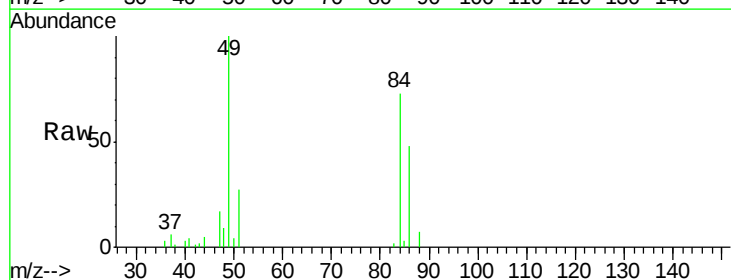
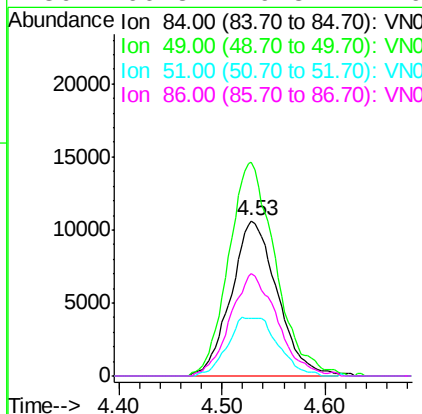
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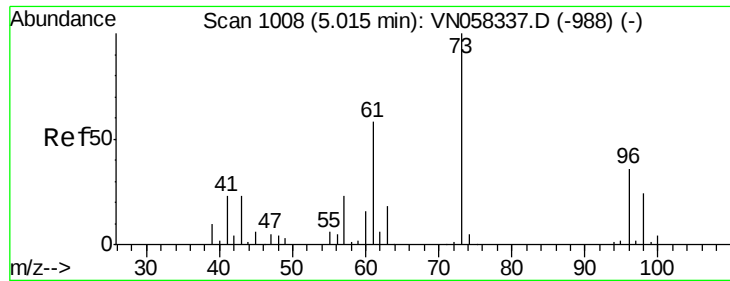
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#18
Methylene Chloride
Concen: 5.123 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	137.7	99.8	149.6
51	37.5	28.3	42.5
86	66.3	49.8	74.6





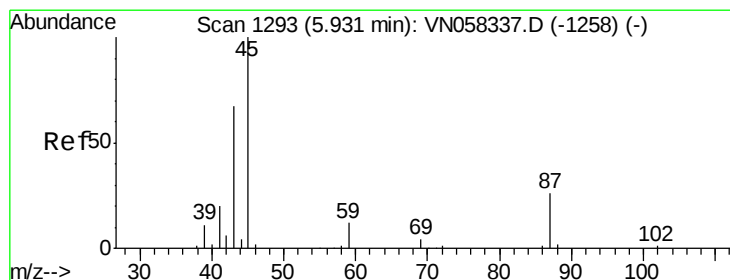
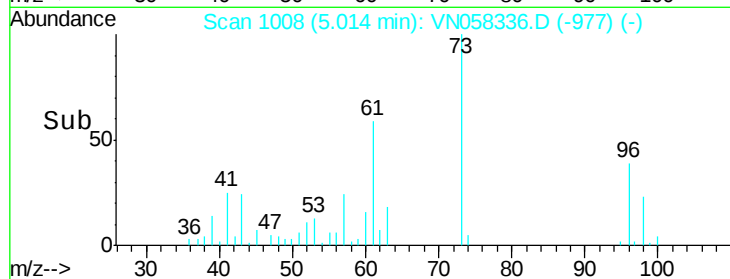
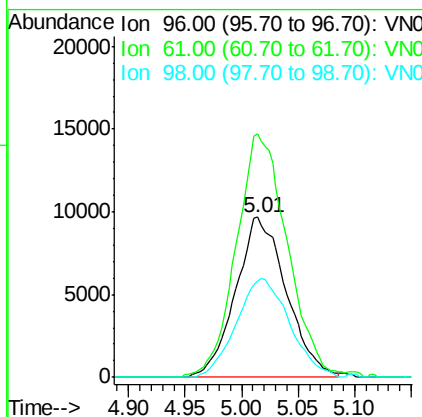
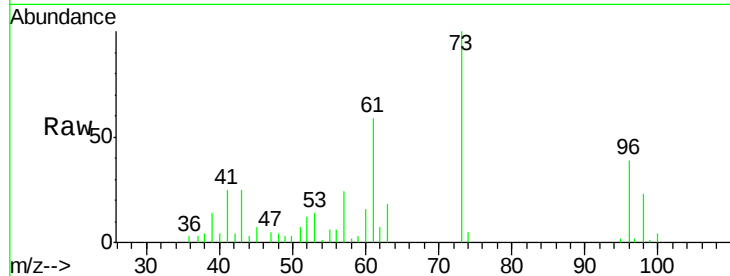
#19
trans-1,2-Dichloroethene
Concen: 5.237 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	149.6	128.0	192.0
98	60.0	53.0	79.6

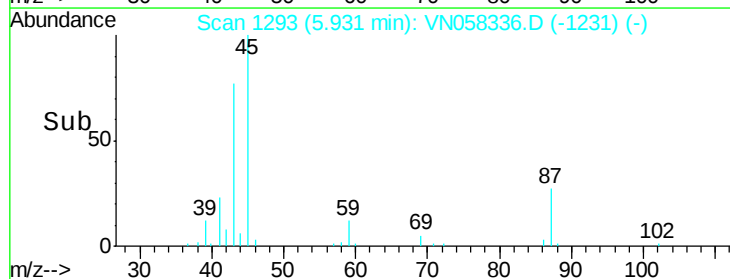
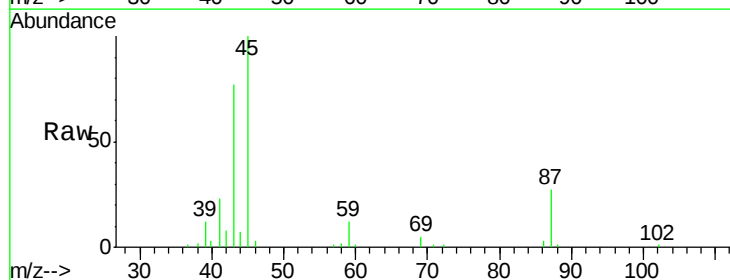
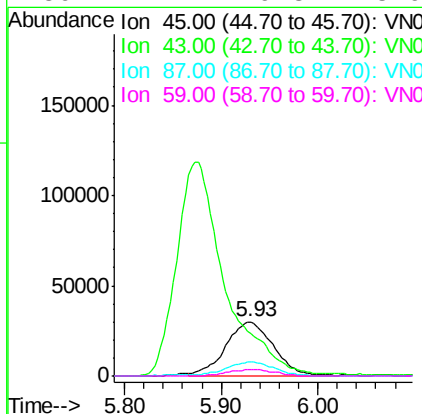
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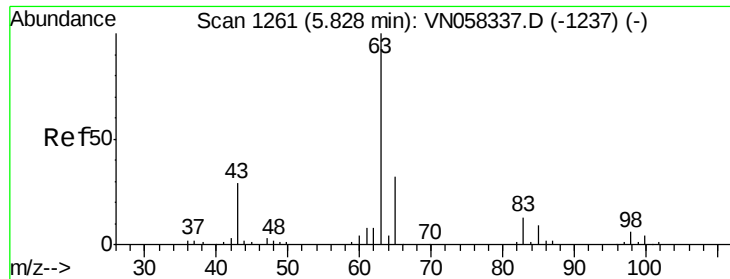
MMDadoda
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#20
Diisopropyl ether
Concen: 4.637 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
45	100		
43	73.3	54.1	81.1
87	27.0	21.4	32.2
59	12.4	9.3	13.9





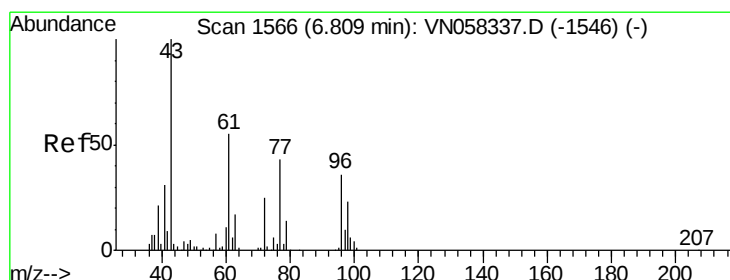
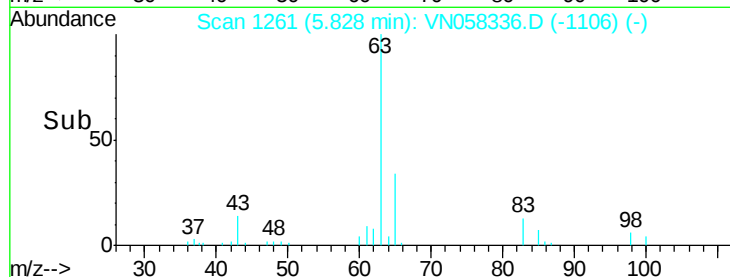
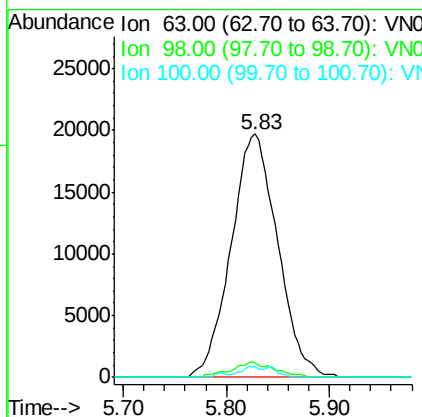
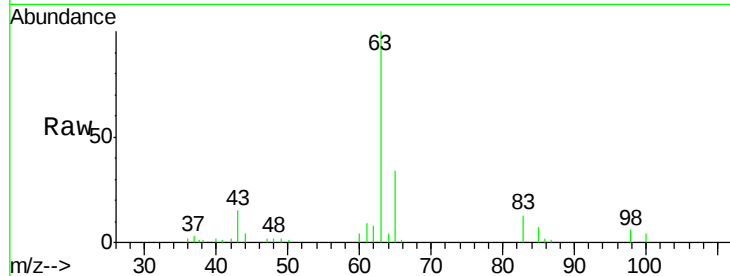
#21
 1,1-Dichloroethane
 Concen: 5.151 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	63	Resp:	61980
Ion	Ratio	Lower	Upper
63	100		
98	5.8	3.0	9.2
100	4.2	2.1	6.5

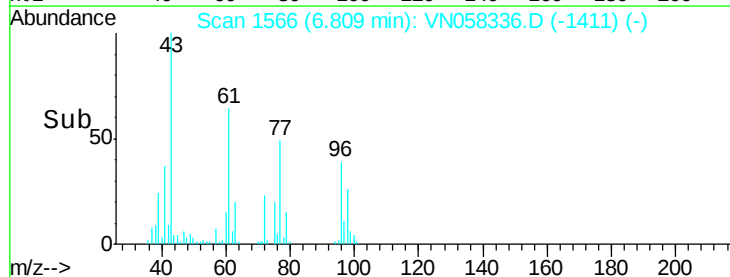
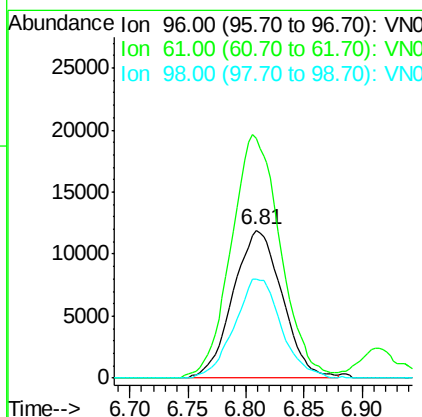
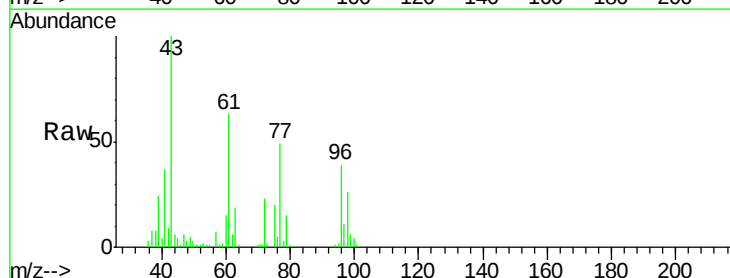
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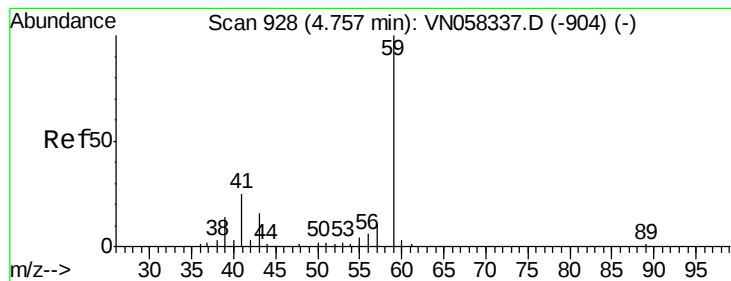
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#22
 cis-1,2-Dichloroethene
 Concen: 5.010 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion:	96	Resp:	35073
Ion	Ratio	Lower	Upper
96	100		
61	164.9	128.2	192.2
98	64.0	50.6	76.0





#23

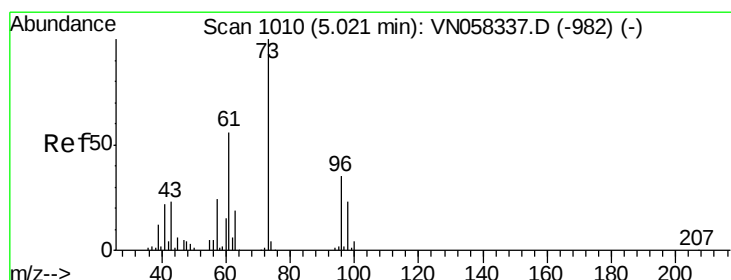
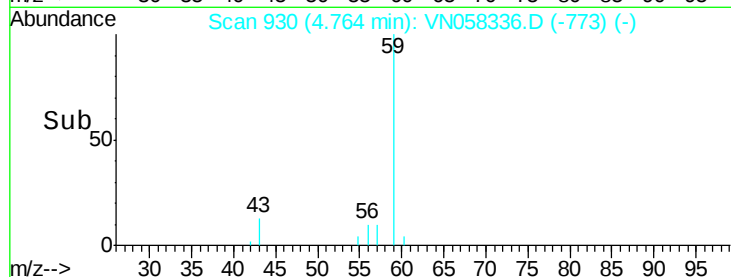
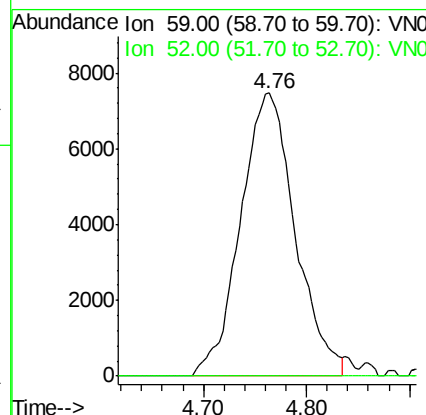
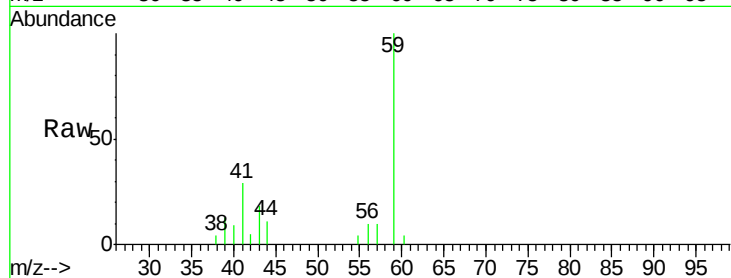
tert-Butyl Alcohol
 Concen: 28.909 ug/l
 RT: 4.76 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#

Manual Integrations
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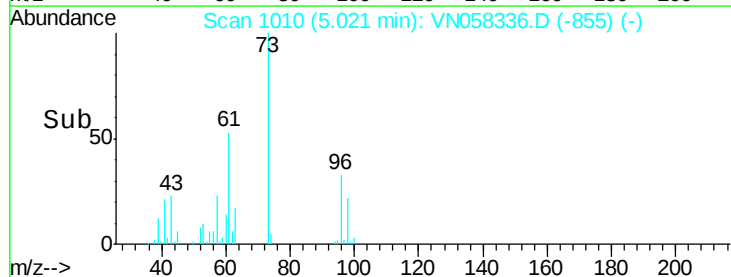
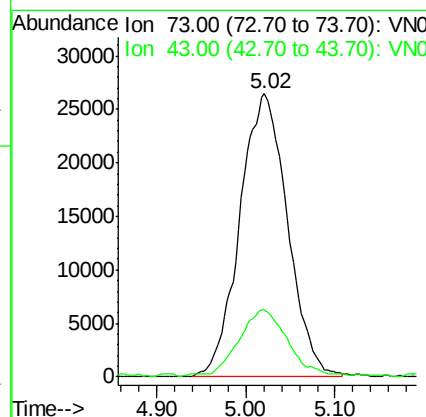
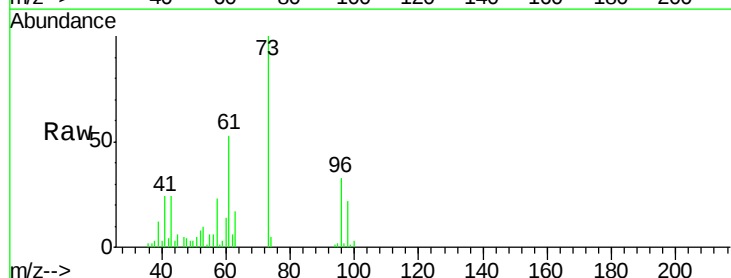
MMDadoda
 9/25/2019 8:22:47 AM

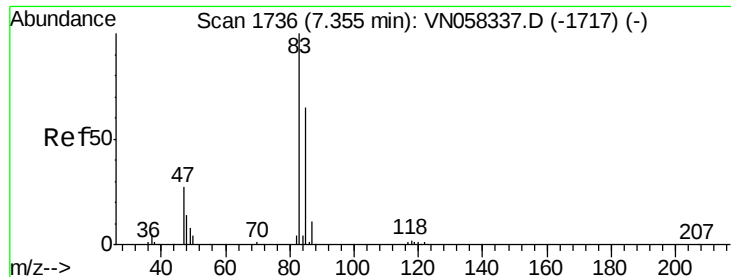


#24

Methyl tert-Butyl Ether
 Concen: 5.022 ug/l
 RT: 5.02 min Scan# 1010
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
73	100		
43	21.1	18.4	27.6





#25

Chloroform

Concen: 5.089 ug/l

RT: 7.36 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 83 Resp: 62409

Ion Ratio Lower Upper

83 100

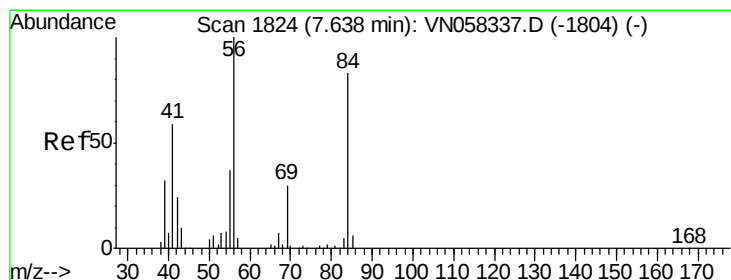
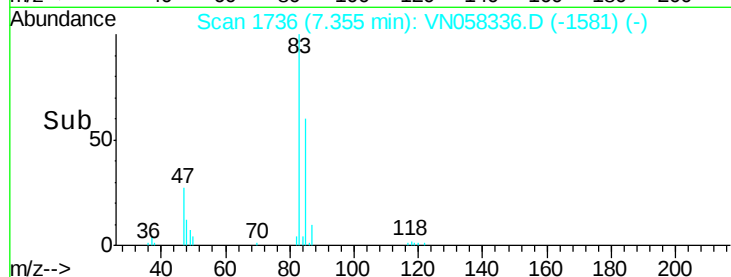
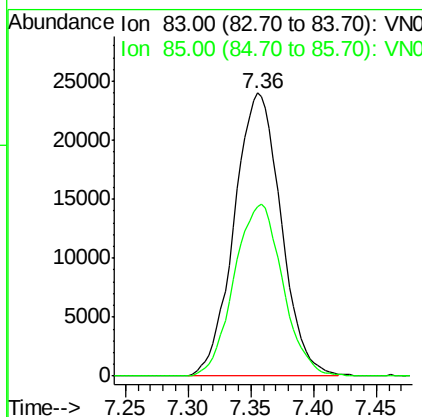
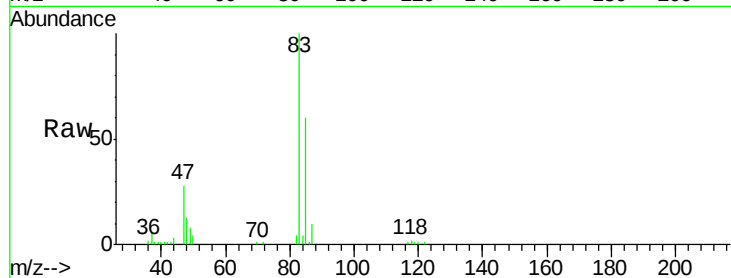
85 59.9 51.8 77.6

Manual Integrations

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#26

Cyclohexane

Concen: 5.233 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

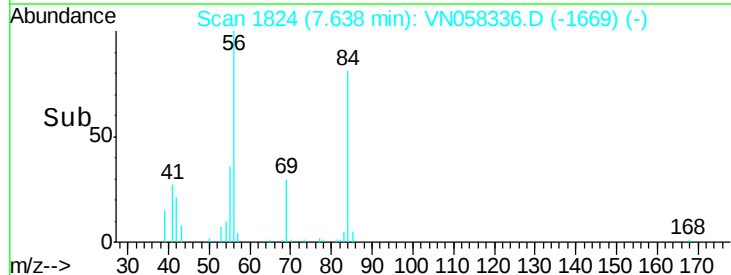
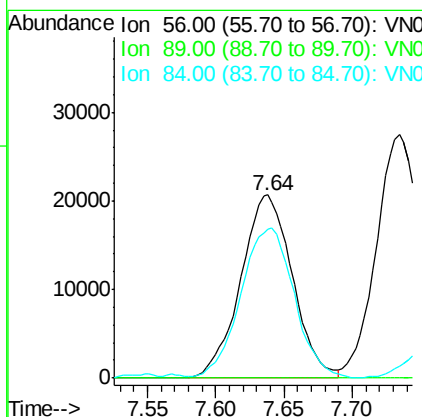
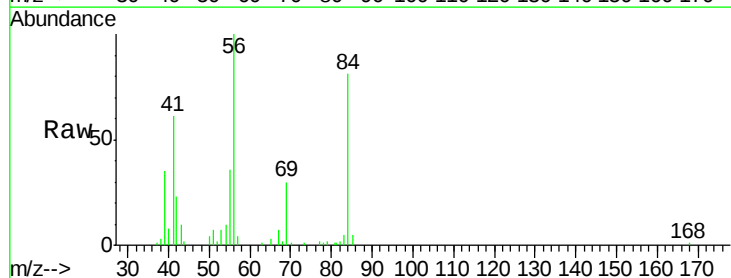
Tgt Ion: 56 Resp: 54311

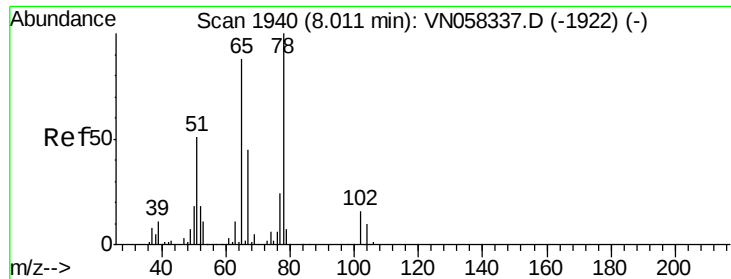
Ion Ratio Lower Upper

56 100

89 0.0 0.1 0.1#

84 84.8 66.9 100.3





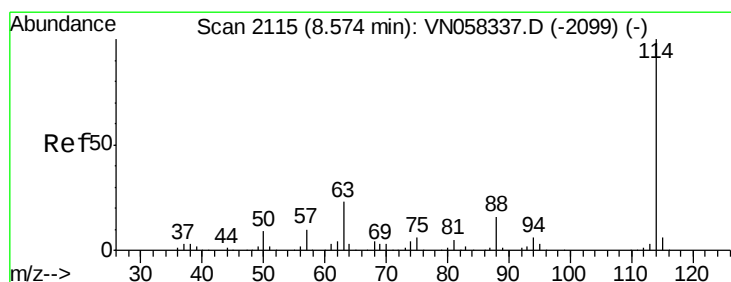
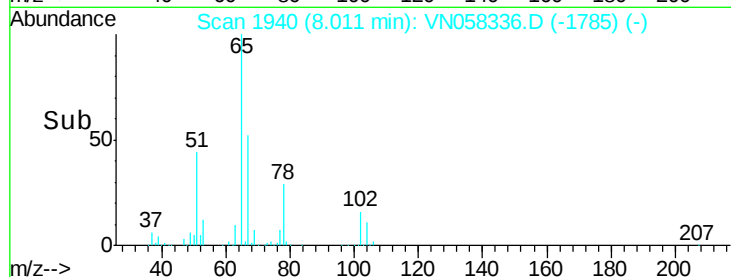
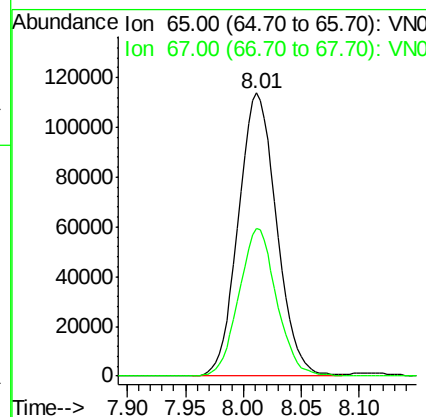
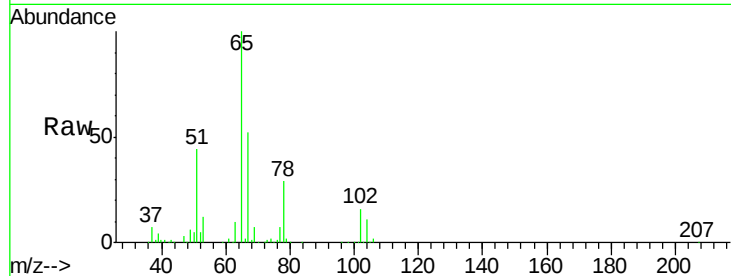
#27
 1,2-Dichloroethane-d4
 Concen: 30.739 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 65 Resp: 261719
 Ion Ratio Lower Upper
 65 100
 67 51.2 40.4 60.6

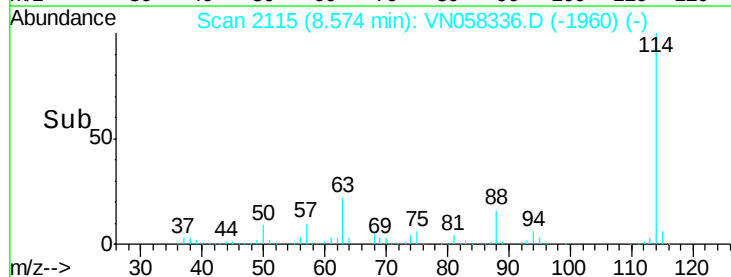
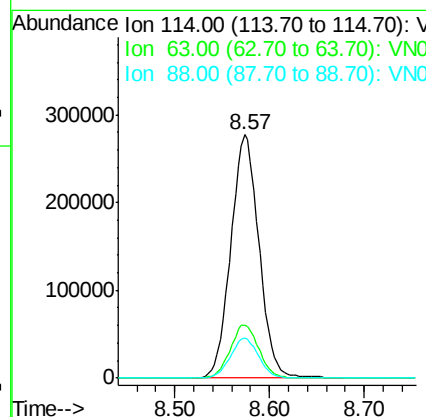
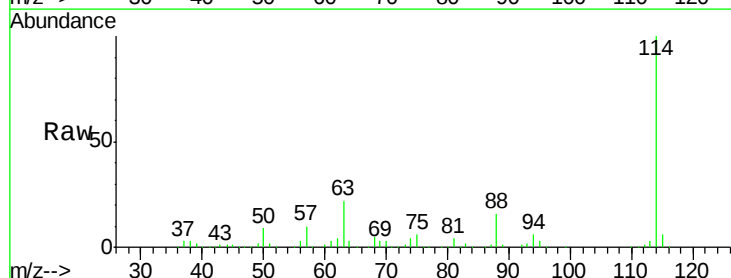
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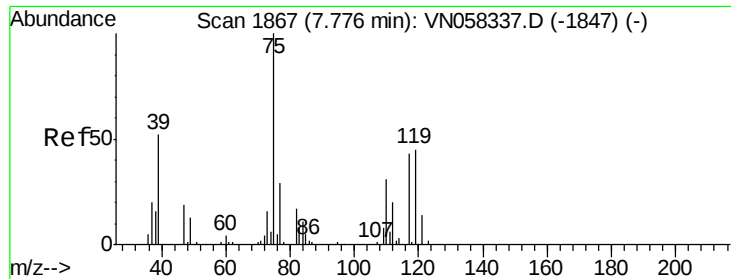
MMDadoda
 9/25/2019 8:22:47 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion: 114 Resp: 574742
 Ion Ratio Lower Upper
 114 100
 63 22.2 17.8 26.8
 88 16.3 12.7 19.1





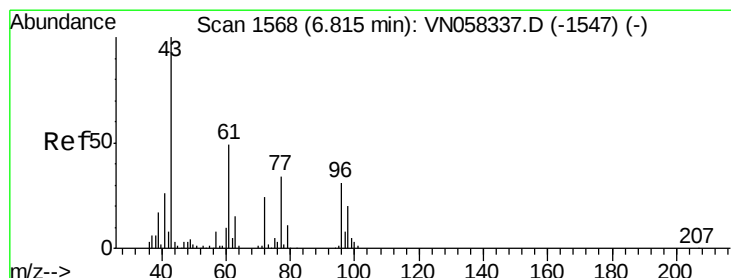
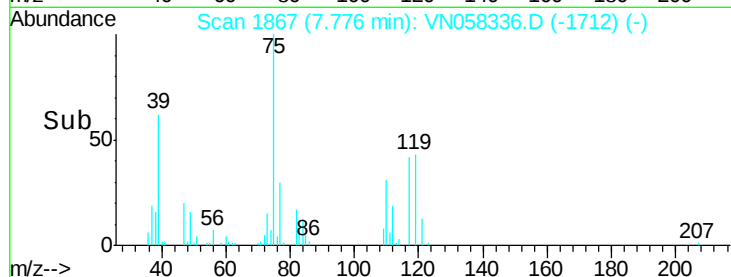
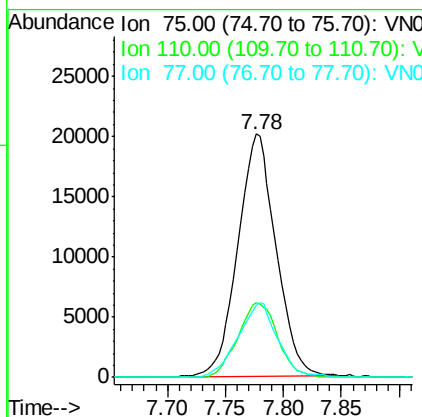
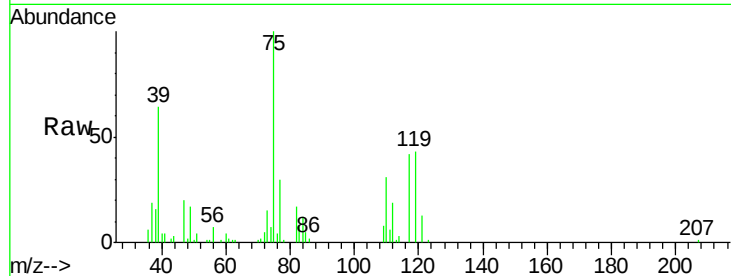
#29
 1,1-Dichloropropene
 Concen: 5.023 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
110	32.1	0.0	63.6
77	31.7	0.0	59.4

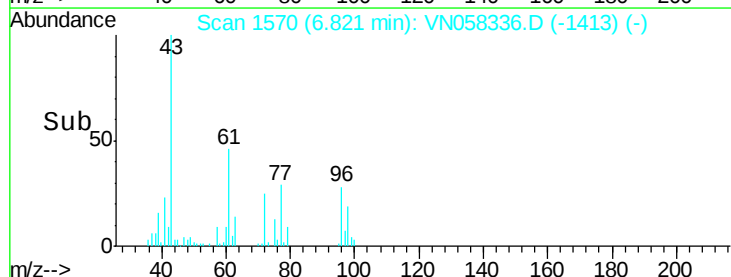
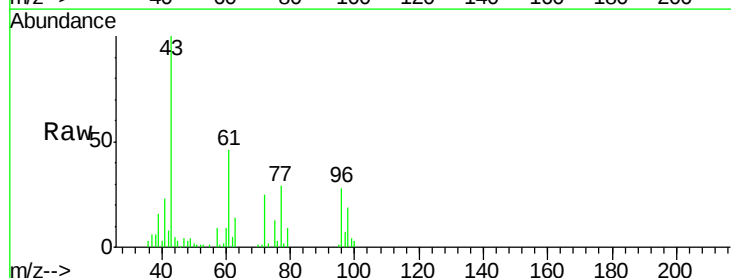
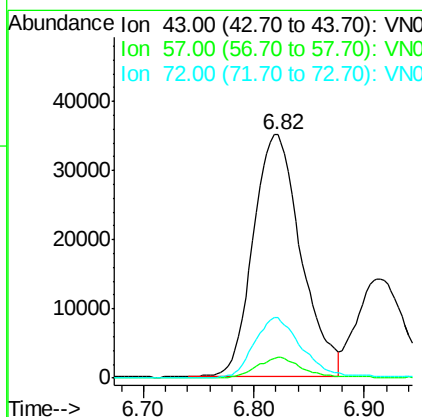
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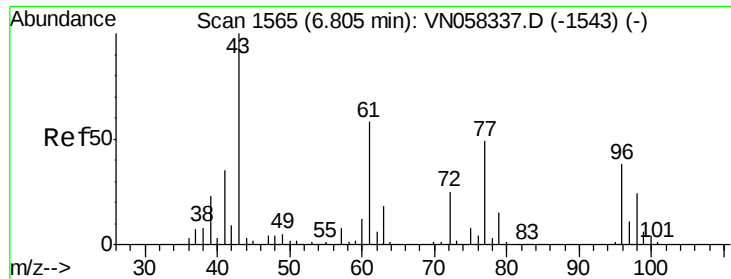
MMDadoda
 9/25/2019 8:22:47 AM



#30
 2-Butanone
 Concen: 25.500 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.8	6.2	9.4
72	24.6	20.3	30.5





#31

2,2-Dichloropropane

Concen: 4.803 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 77 Resp: 46459

Ion Ratio Lower Upper

77 100

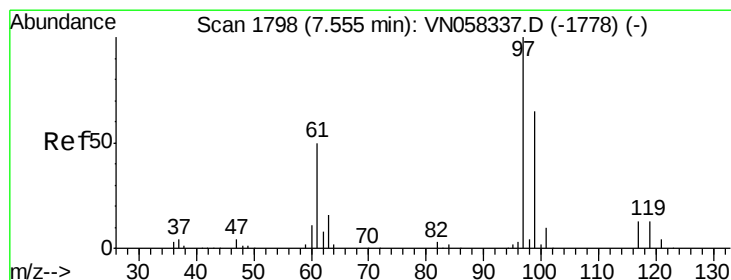
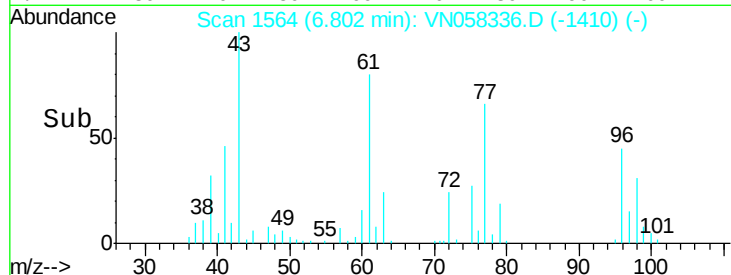
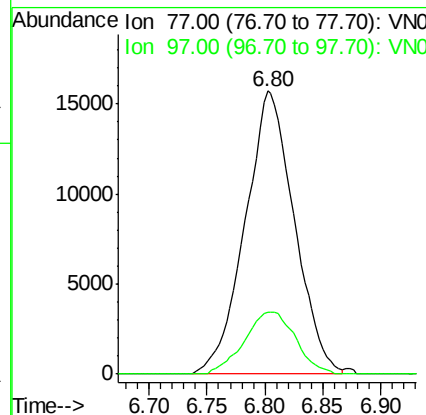
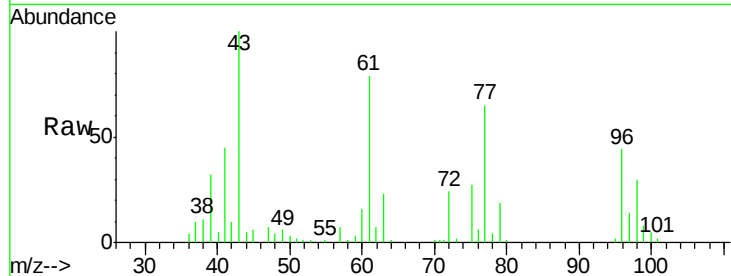
97 23.0 17.6 26.4

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#32

1,1,1-Trichloroethane

Concen: 4.858 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

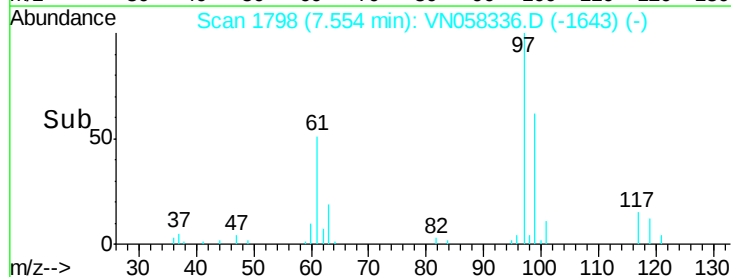
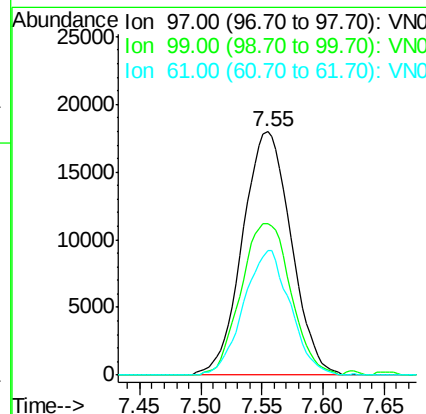
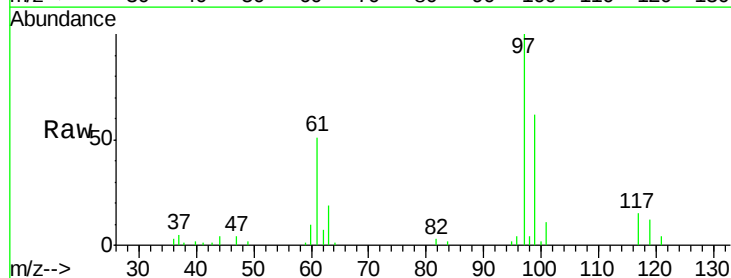
Tgt Ion: 97 Resp: 49637

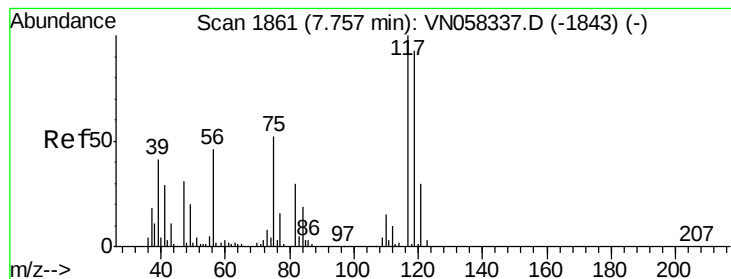
Ion Ratio Lower Upper

97 100

99 63.8 51.8 77.6

61 49.0 39.4 59.2





#33

Carbon Tetrachloride

Concen: 4.715 ug/l

RT: 7.76 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

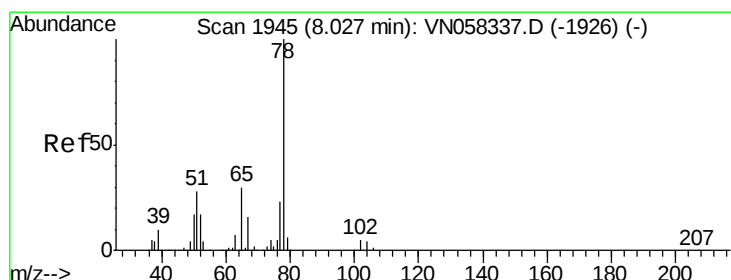
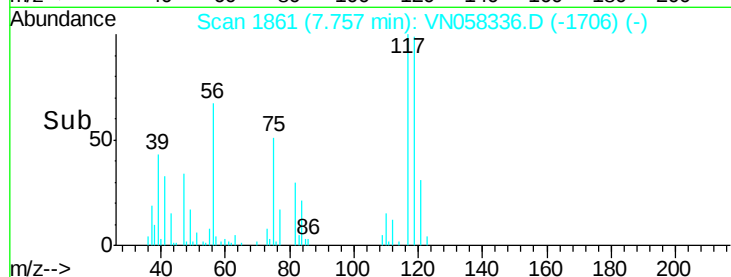
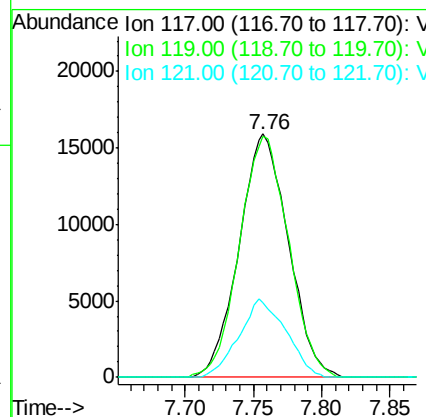
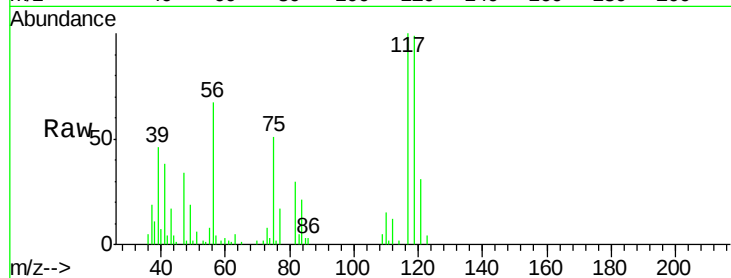
ClientSampleId :

VSTDIC005

Tot Ion:	117	Resp:	39853
Ion	Ratio	Lower	Upper
117	100		
119	98.9	74.2	111.4
121	30.6	23.9	35.9

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#34

Benzene

Concen: 5.006 ug/l

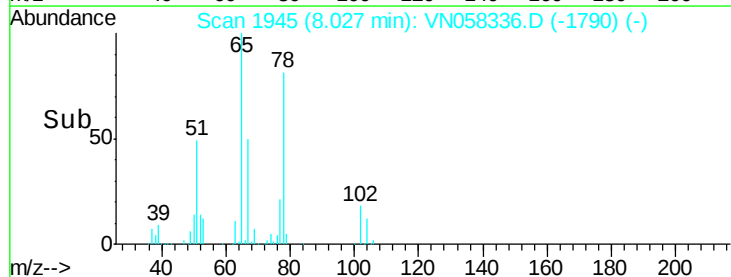
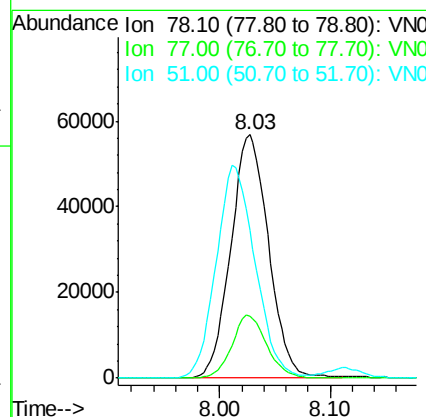
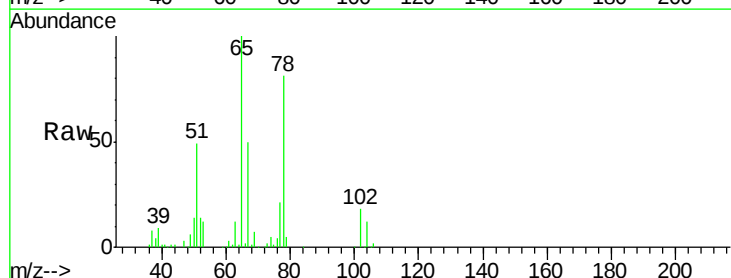
RT: 8.03 min Scan# 1945

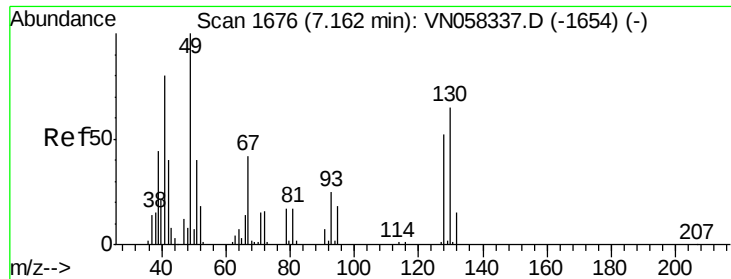
Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Tgt Ion:	78	Resp:	134948
Ion	Ratio	Lower	Upper
78	100		
77	25.5	18.8	28.2
51	57.0	22.4	33.6#





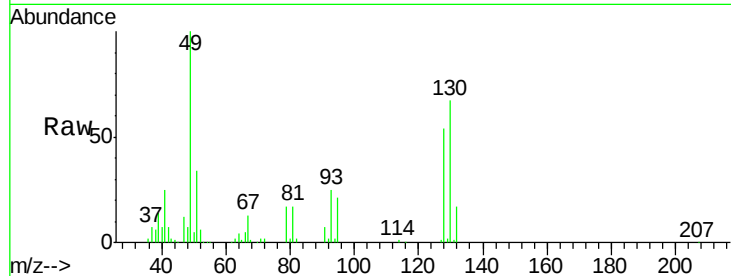
#35
Methacrylonitrile
Concen: 5.201 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

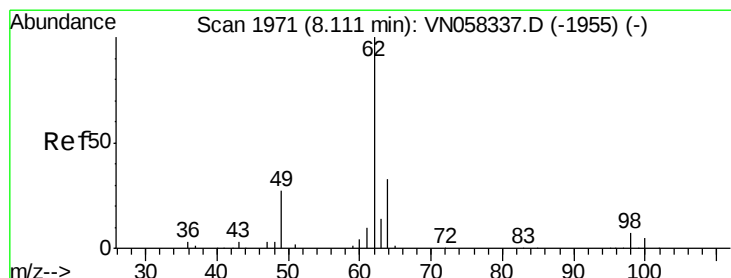
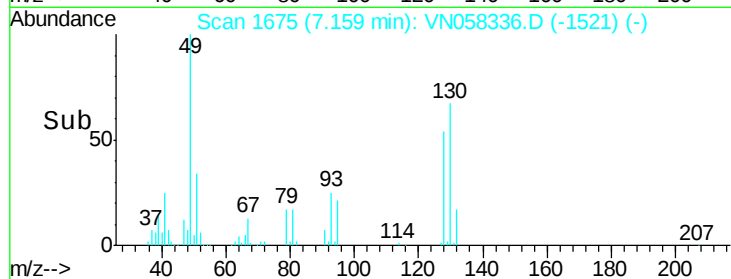
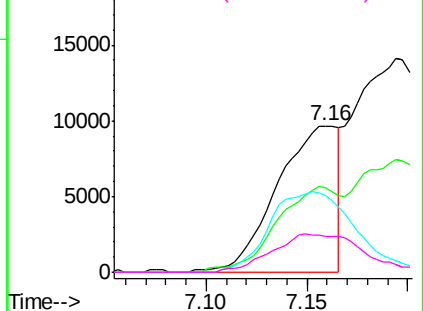
Tot Ion	Ratio	Lower	Upper
41	100		
39	57.8	27.3	81.9
67	52.4	26.3	78.9
52	24.6	11.0	33.0

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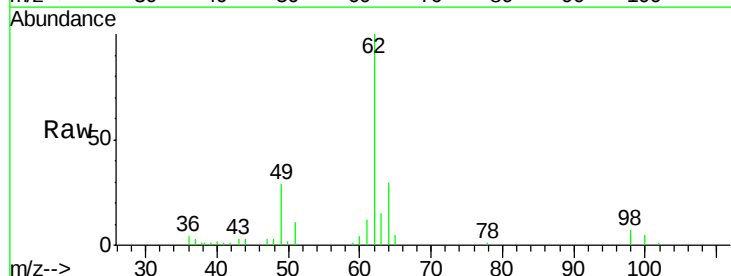


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

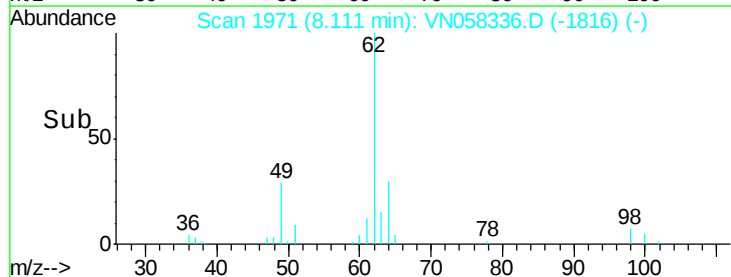
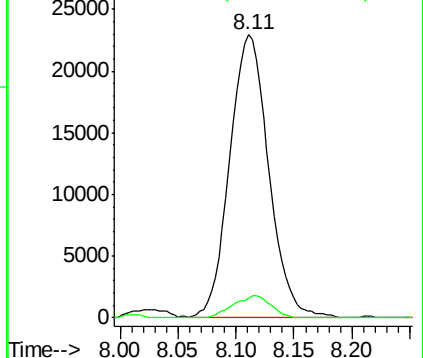


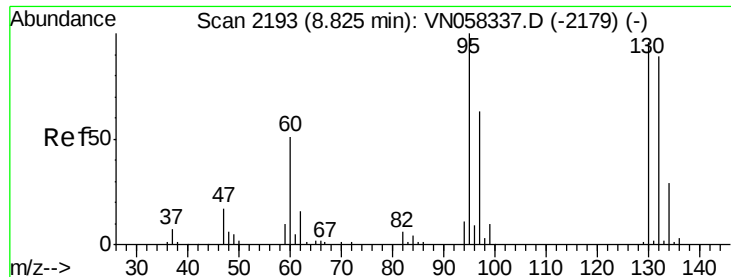
#36
1,2-Dichloroethane
Concen: 5.123 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.6	6.0	9.0



Abundance Ion 62.00 (61.70 to 62.70): VNO
Ion 98.00 (97.70 to 98.70): VNO





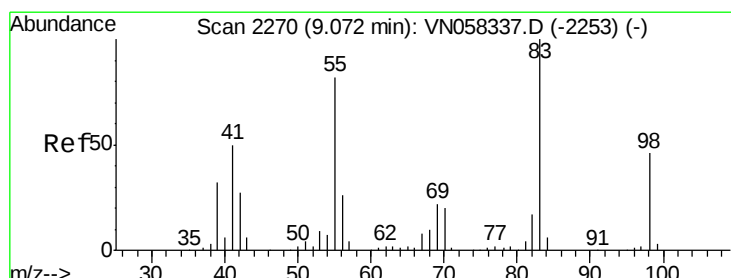
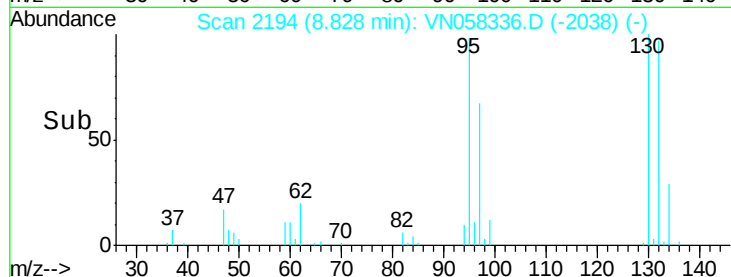
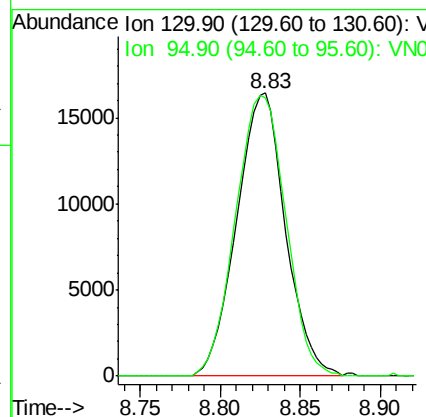
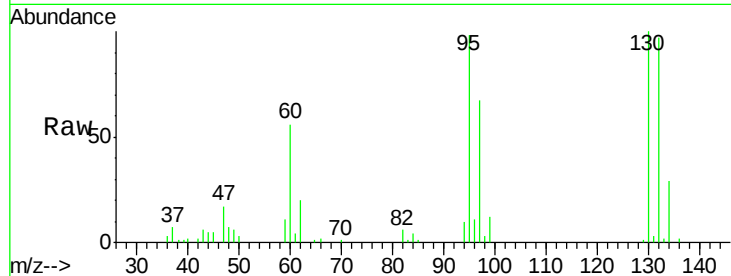
#37
 Trichloroethene
 Concen: 5.189 ug/l
 RT: 8.83 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:130 Resp: 34173
 Ion Ratio Lower Upper
 130 100
 95 98.1 83.3 124.9

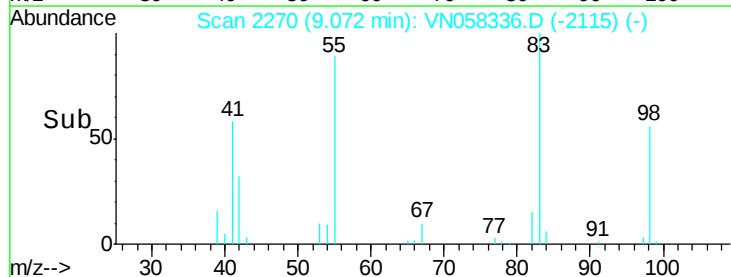
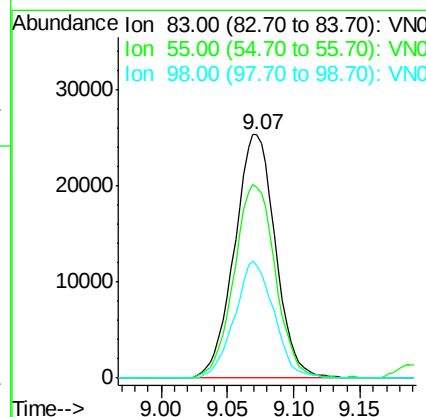
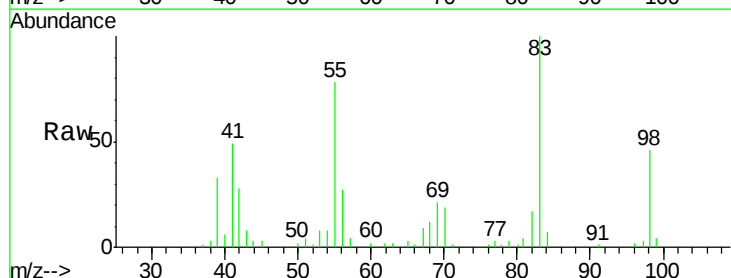
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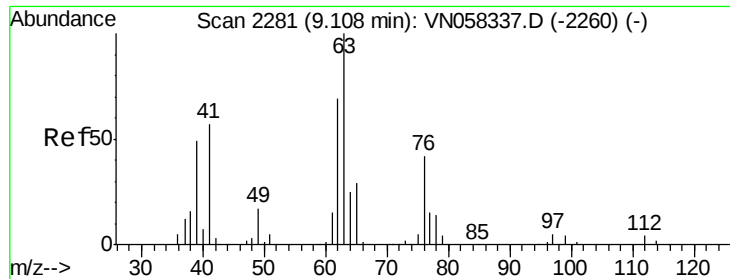
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#38
 Methylcyclohexane
 Concen: 5.155 ug/l
 RT: 9.07 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion: 83 Resp: 54339
 Ion Ratio Lower Upper
 83 100
 55 79.8 40.5 121.4
 98 45.9 23.1 69.2





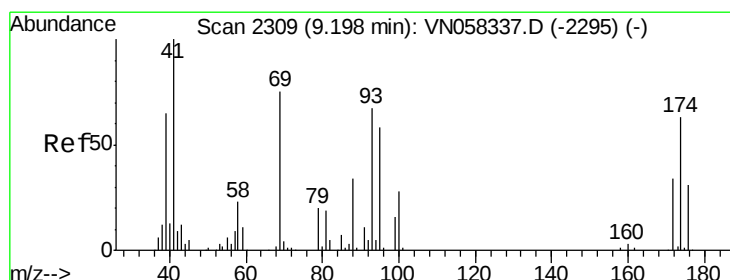
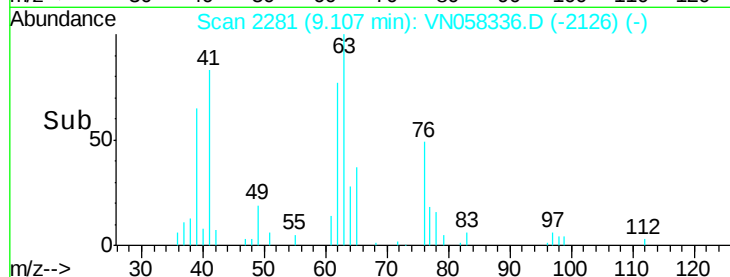
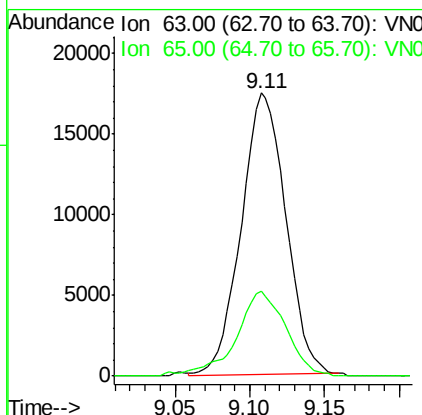
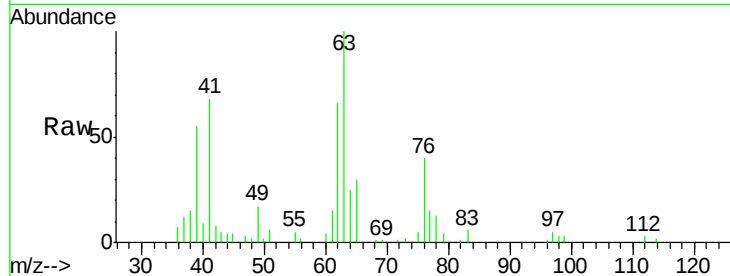
#39
 1,2-Dichloropropane
 Concen: 4.818 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 36211
 Ion Ratio Lower Upper
 63 100
 65 30.3 23.4 35.0

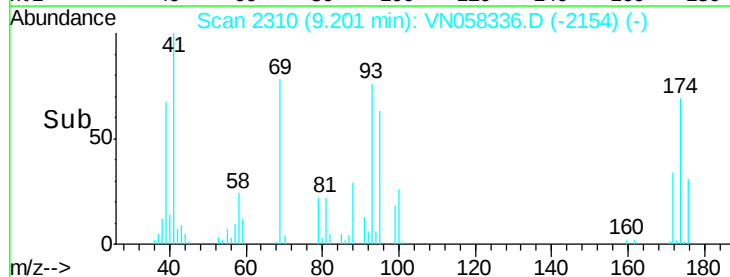
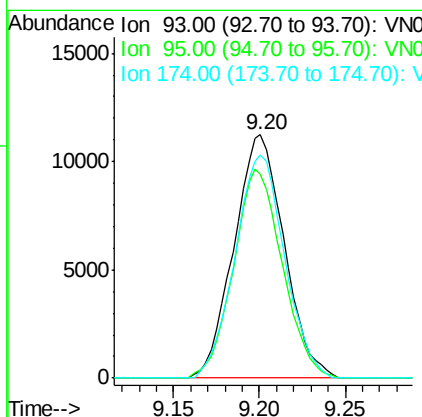
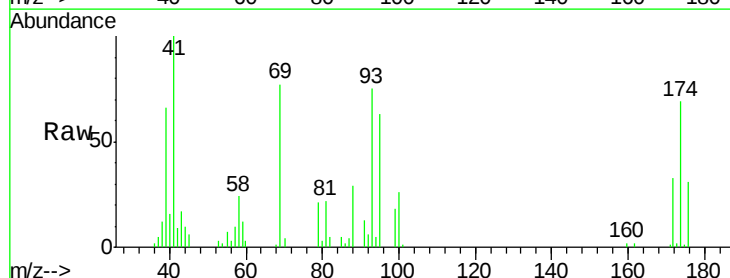
Manual Integrations
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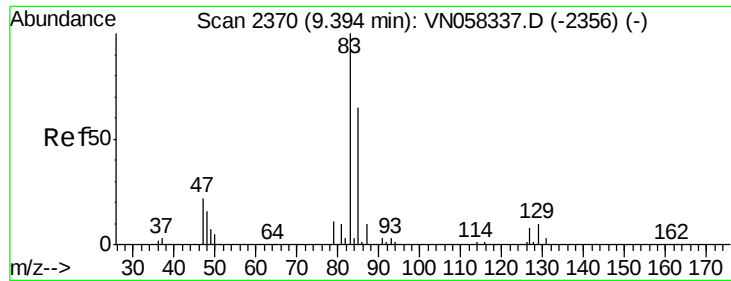
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#40
 Dibromomethane
 Concen: 4.946 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion: 93 Resp: 22742
 Ion Ratio Lower Upper
 93 100
 95 83.4 0.0 166.8
 174 90.9 0.0 187.2





#41

Bromodichloromethane

Concen: 4.461 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

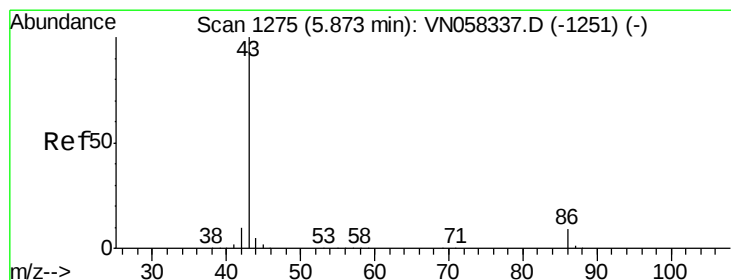
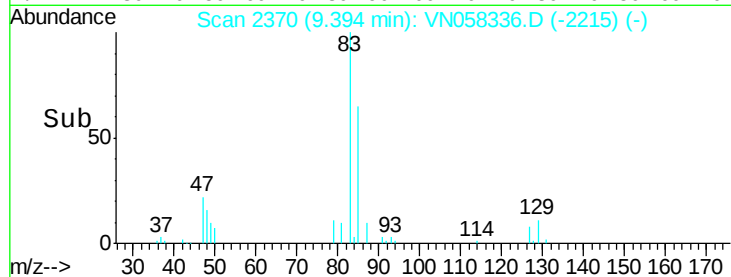
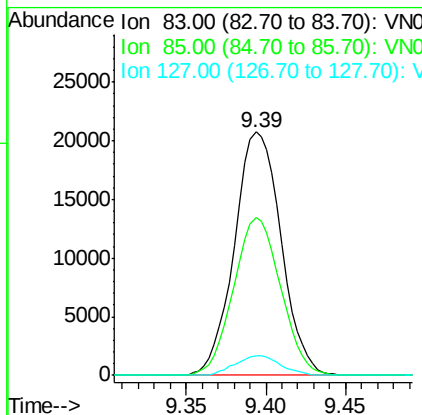
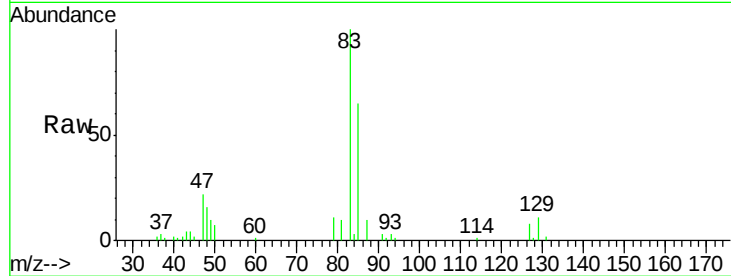
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	41374
Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.0	78.0
127	9.4	6.1	9.1#

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#42

Vinyl Acetate

Concen: 24.804 ug/l

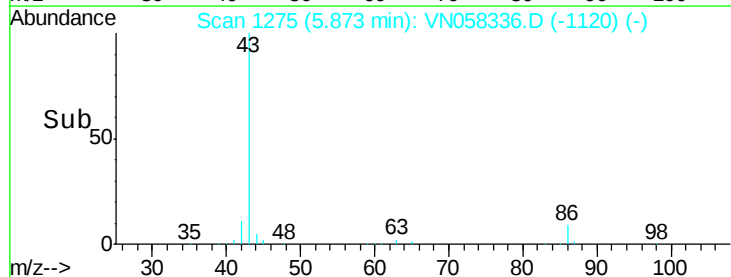
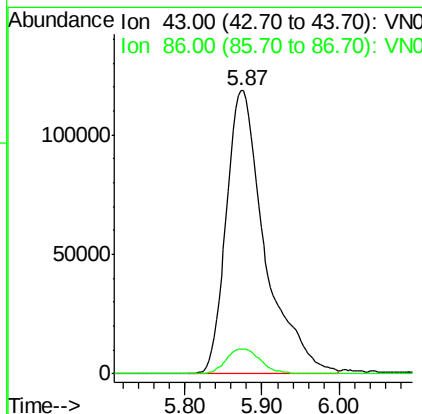
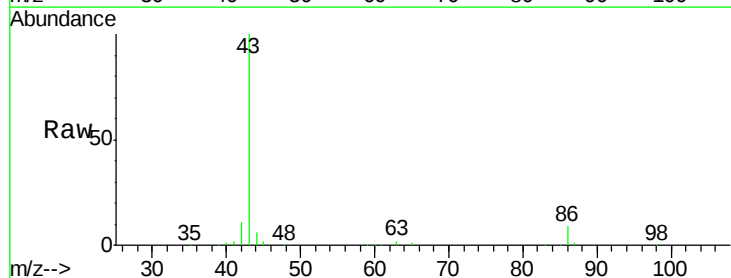
RT: 5.87 min Scan# 1275

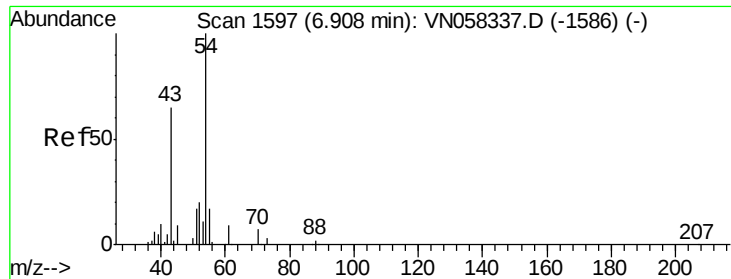
Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Tgt Ion:	43	Resp:	409681
Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.6	9.8





#43

Ethyl Acetate

Concen: 4.864 ug/l

RT: 6.91 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 40536

Ion Ratio Lower Upper

43 100

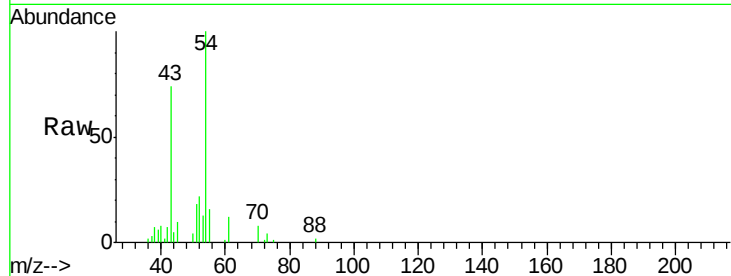
45 12.4 9.8 14.6

Manual Integrations

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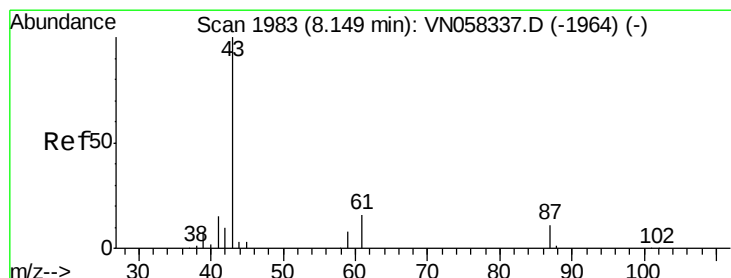
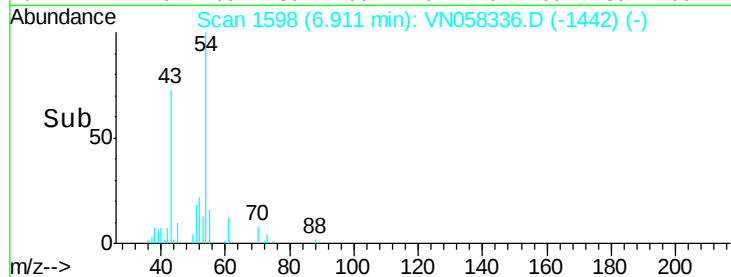
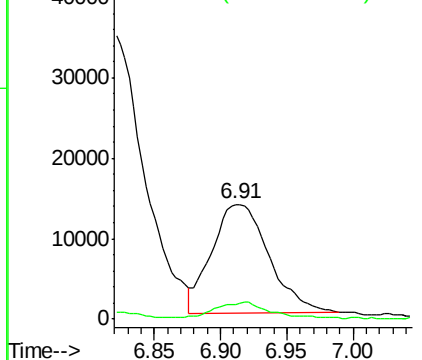
MMDadoda

9/25/2019 8:22:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#44

Isopropyl Acetate

Concen: 5.011 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058336.D

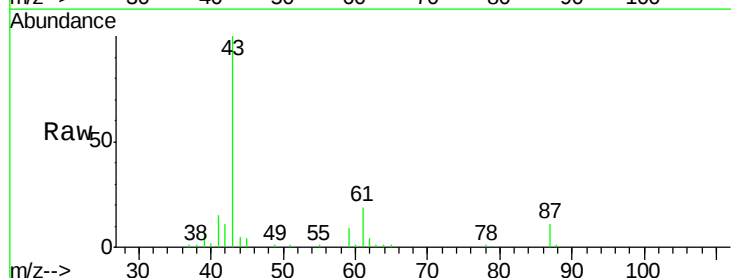
Acq: 24 Sep 2019 10:08

Tgt Ion: 43 Resp: 74103

Ion Ratio Lower Upper

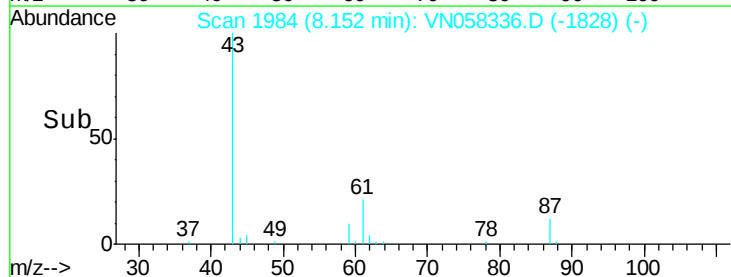
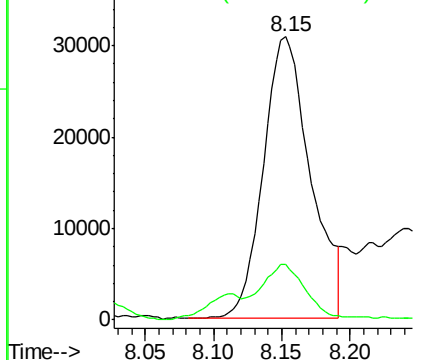
43 100

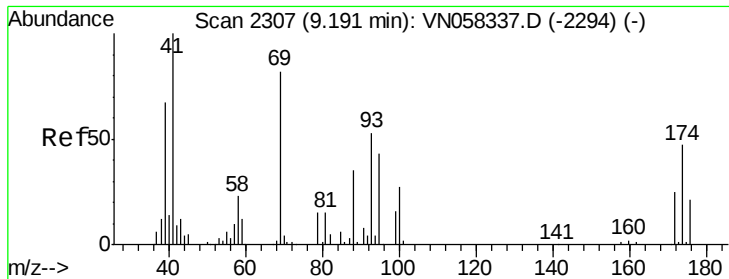
61 16.2 14.4 21.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





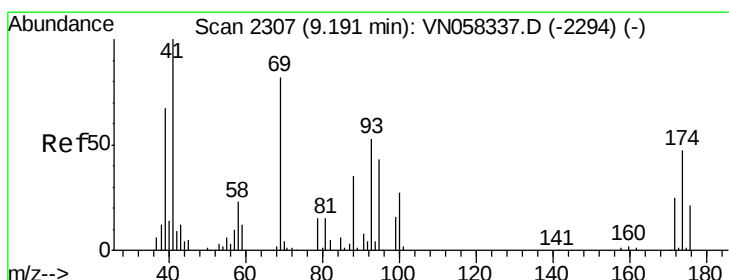
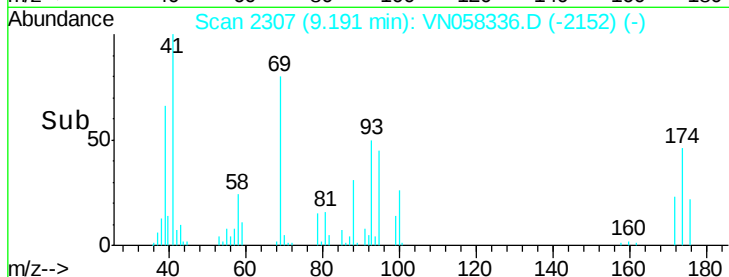
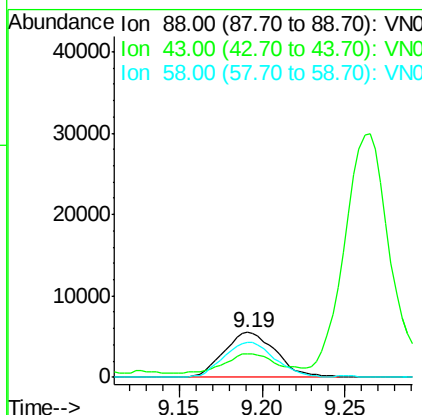
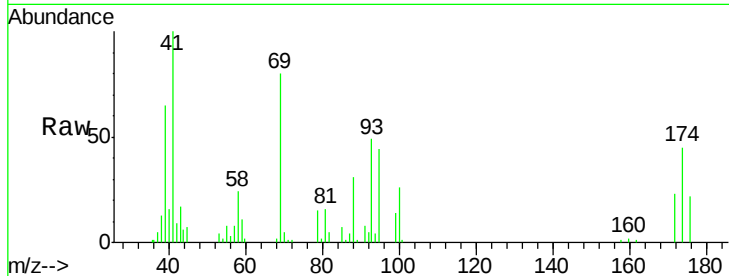
#45
1,4-Dioxane
Concen: 102.927 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	36.3	27.2	40.8	
58	75.3	55.4	83.0	

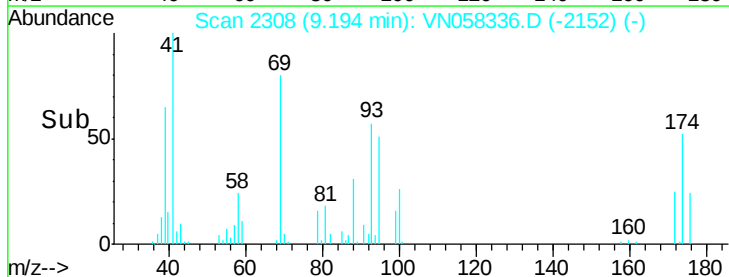
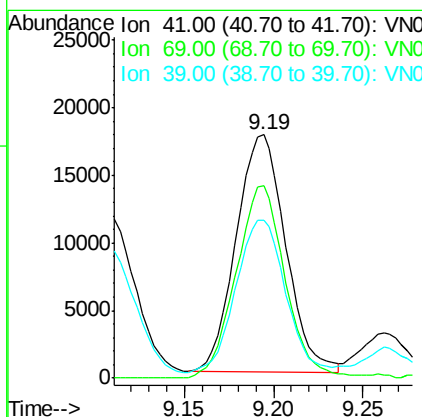
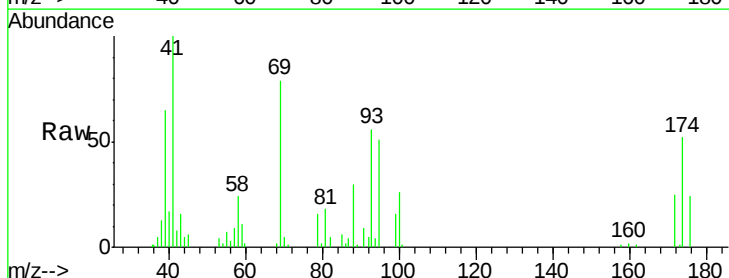
Manual Integrations
APPROVED

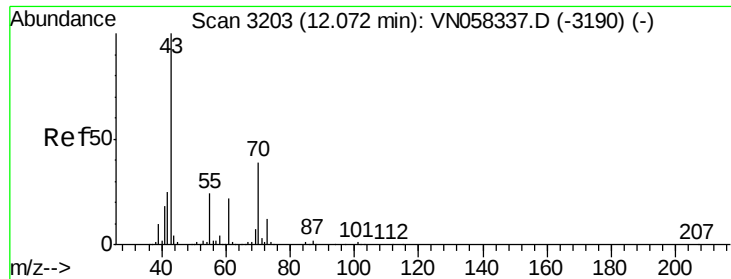
MMDadoda
9/25/2019 8:22:47 AM



#46
Methyl methacrylate
Concen: 4.783 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	81.4	40.9	122.7	
39	63.9	33.6	100.6	





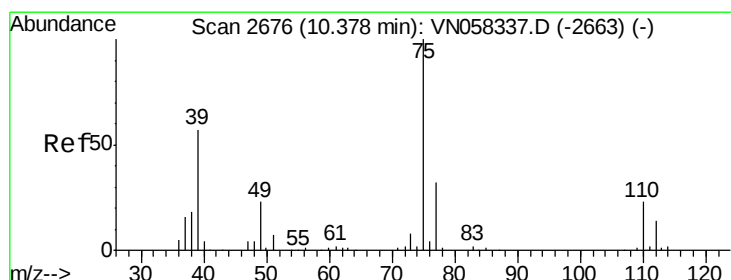
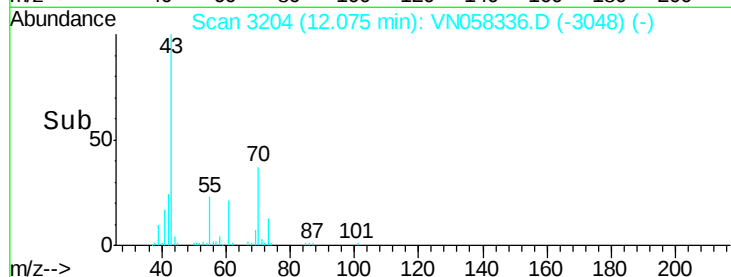
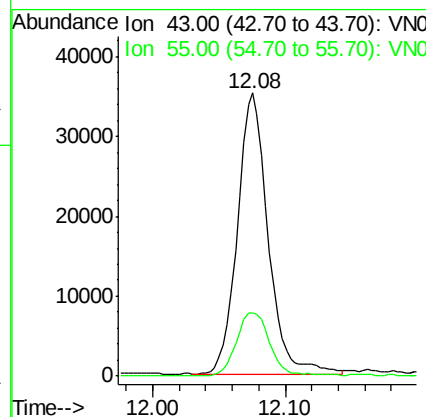
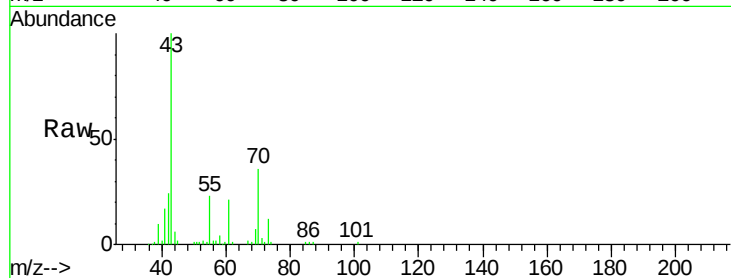
#47
n-amvl Acetate
Concen: 4.199 ug/l
RT: 12.08 min Scan# 3204
Delta R.T. 0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 56264
Ion Ratio Lower Upper
43 100
55 24.3 19.0 28.4

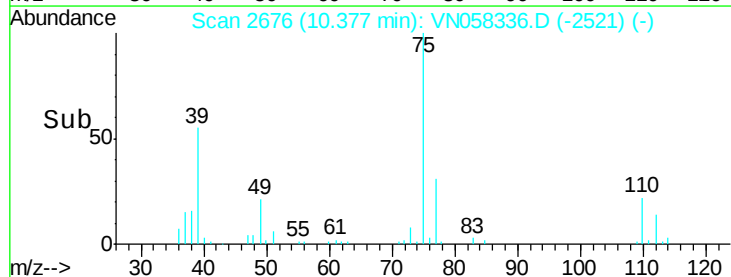
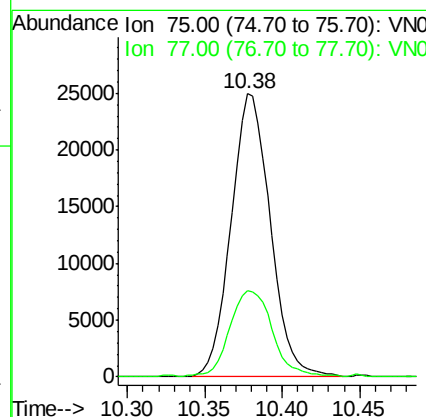
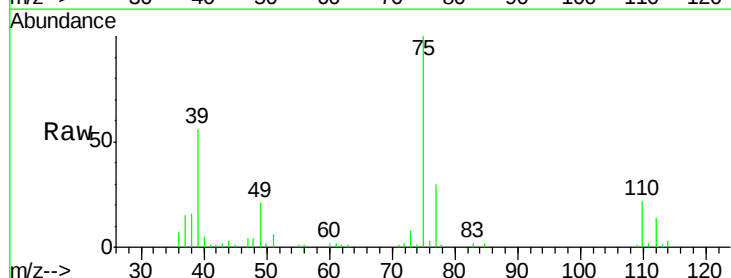
Manual Integrations
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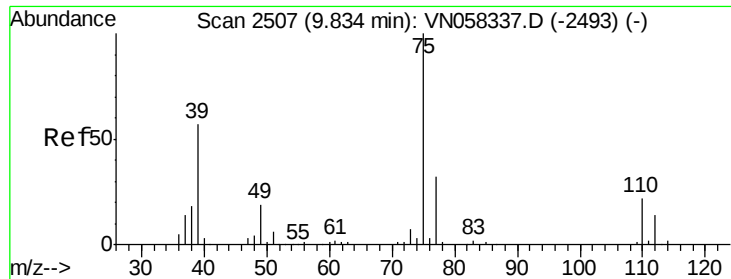
MMDadoda
9/25/2019 8:22:47 AM



#48
t-1,3-Dichloropropene
Concen: 4.430 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion: 75 Resp: 43985
Ion Ratio Lower Upper
75 100
77 30.4 25.4 38.0





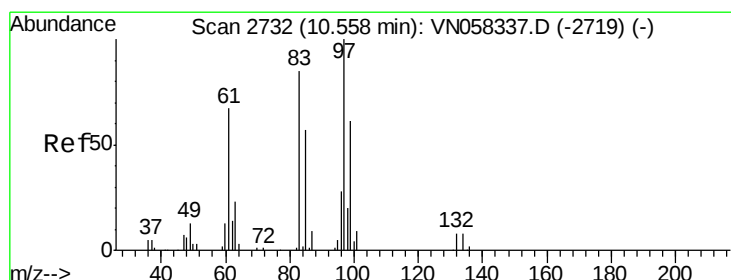
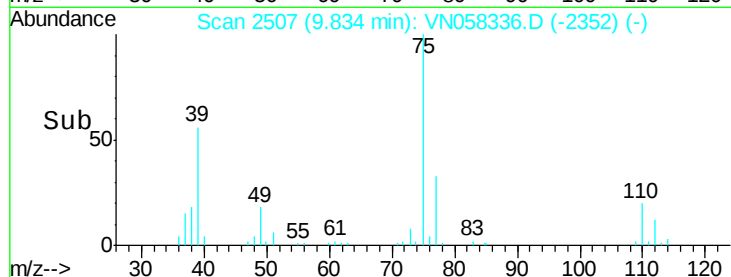
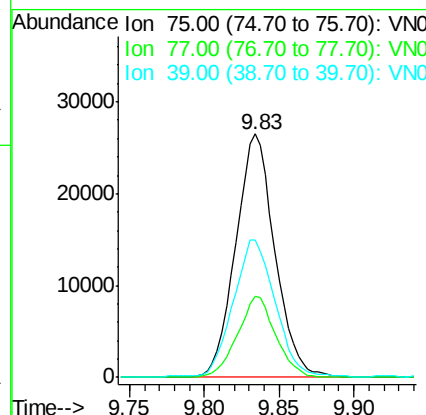
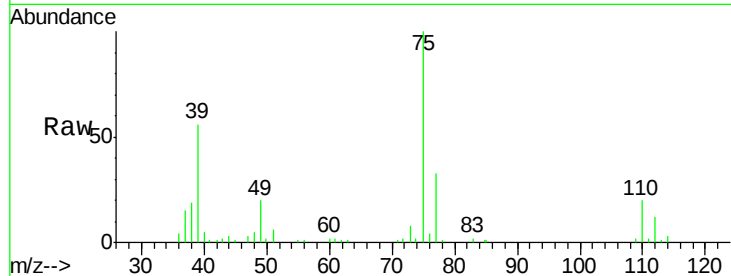
#49
 cis-1,3-Dichloropropene
 Concen: 4.332 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.2	37.8
39	55.8	45.8	68.6

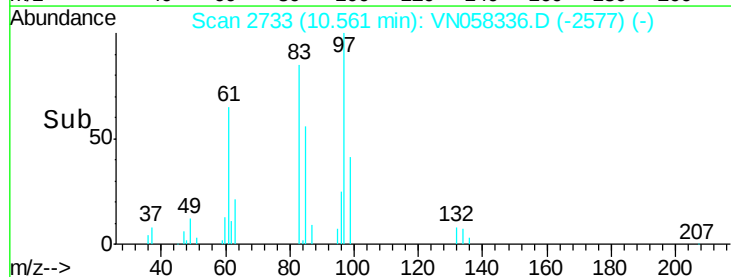
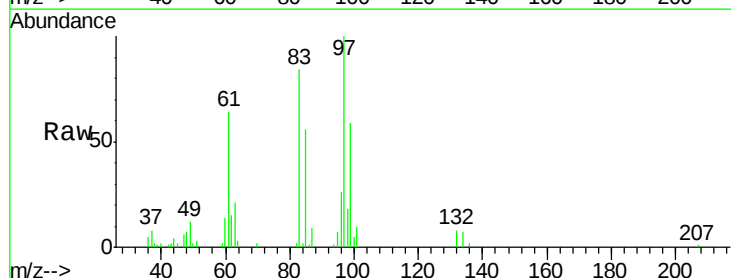
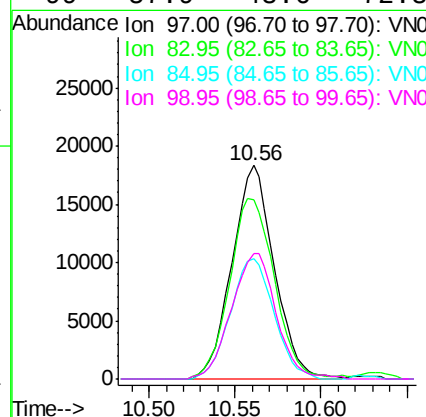
Manual Integrations
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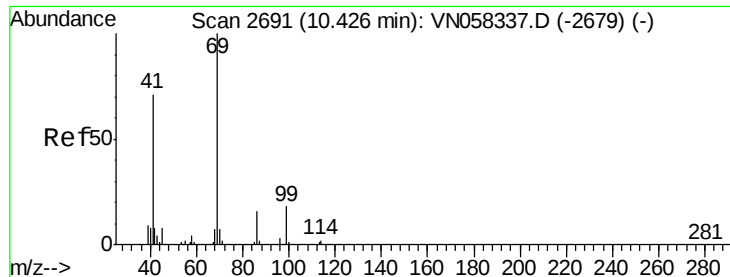
MMDadoda
 9/25/2019 8:22:47 AM



#50
 1,1,2-Trichloroethane
 Concen: 4.738 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
97	100		
83	82.4	67.8	101.6
85	56.2	45.8	68.6
99	57.9	48.6	72.8





#51

Ethyl methacrylate

Concen: 4.460 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

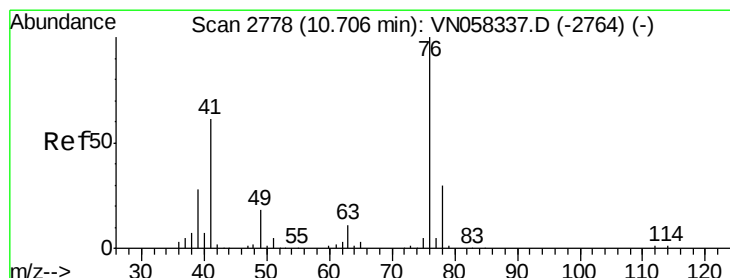
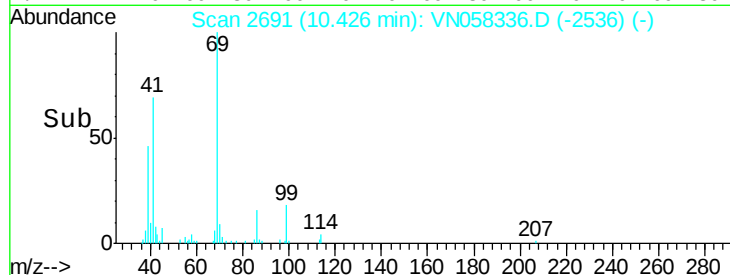
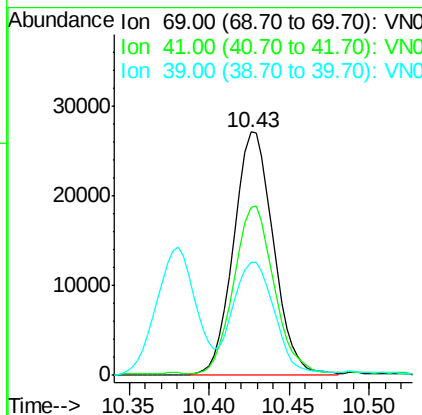
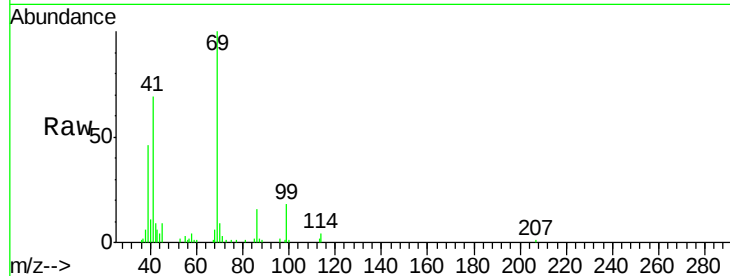
ClientSampleId :

VSTDIC005

Tot Ion:	69	Resp:	46110
Ion	Ratio	Lower	Upper
69	100		
41	68.3	35.4	106.1
39	45.1	23.5	70.5

Manual Integrations
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MMDadoda
9/25/2019 8:22:47 AM



#52

1,3-Dichloropropane

Concen: 4.927 ug/l

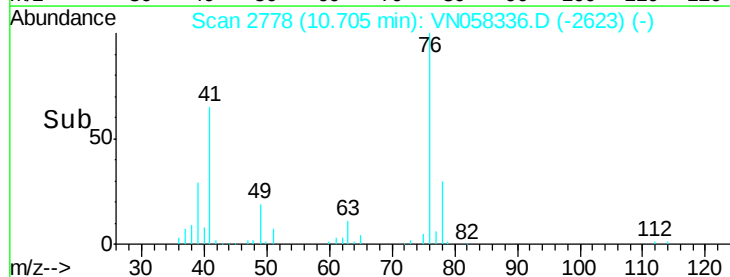
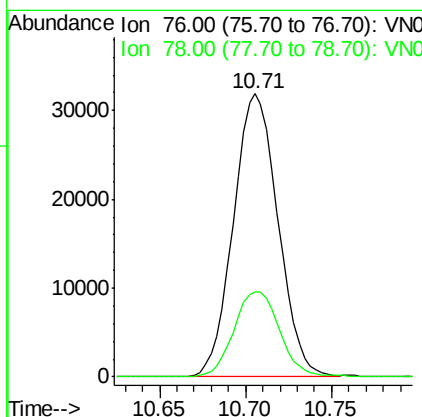
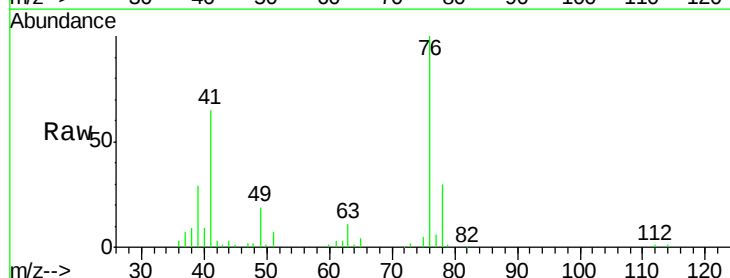
RT: 10.71 min Scan# 2778

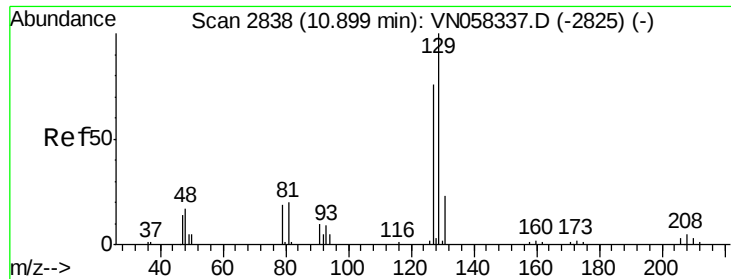
Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Tgt Ion:	76	Resp:	57428
Ion	Ratio	Lower	Upper
76	100		
78	30.7	0.0	63.0





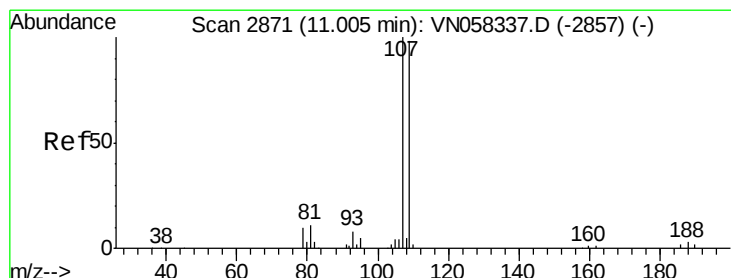
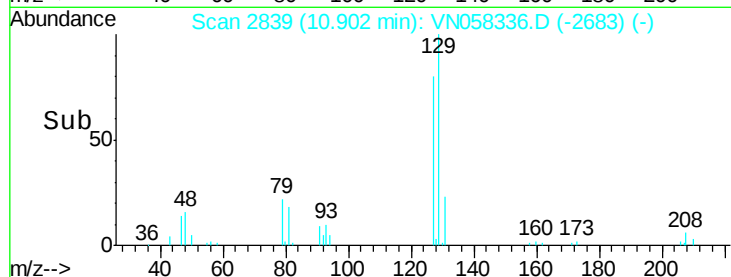
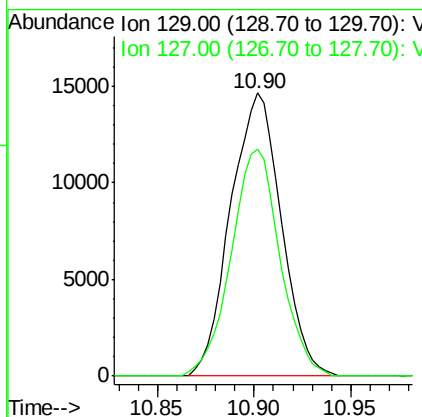
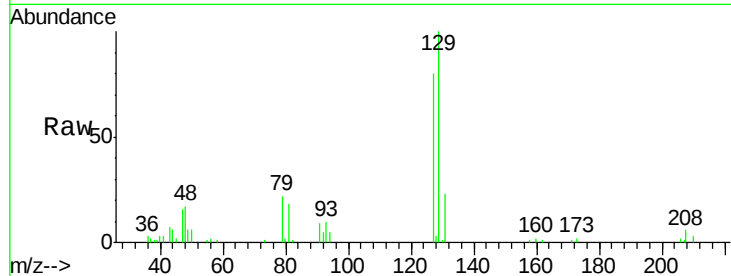
#53
 Dibromochloromethane
 Concen: 4.038 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:129 Resp: 26737
 Ion Ratio Lower Upper
 129 100
 127 77.2 38.4 115.2

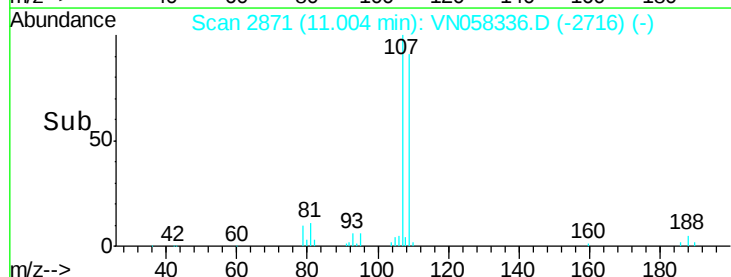
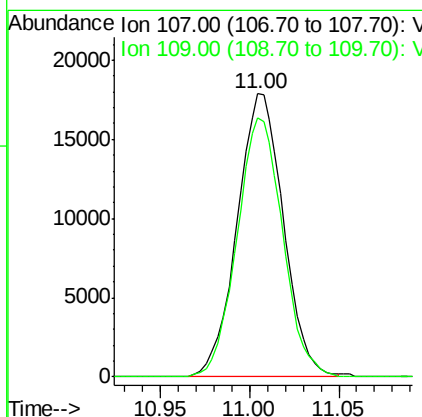
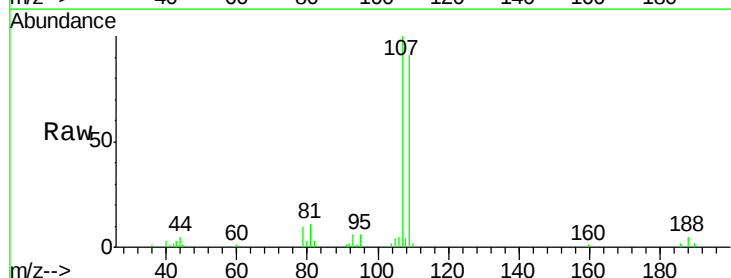
Manual Integrations
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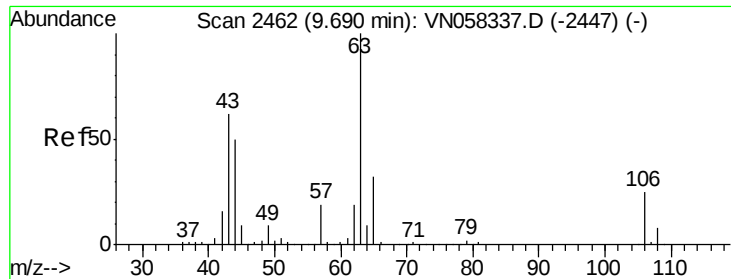
MMDadoda
 9/25/2019 8:22:47 AM



#54
 1,2-Dibromoethane
 Concen: 4.872 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion:107 Resp: 32357
 Ion Ratio Lower Upper
 107 100
 109 90.2 76.5 114.7





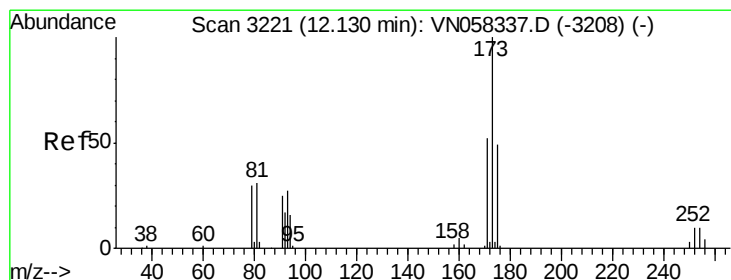
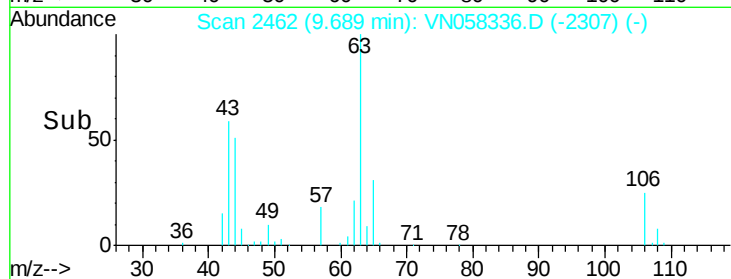
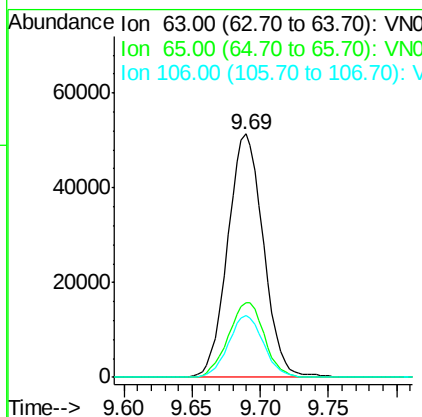
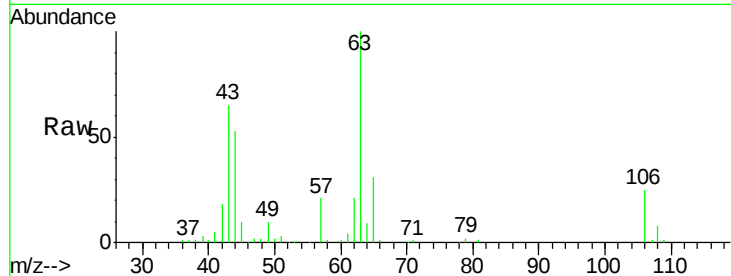
#55
2-Chloroethyl vinyl ether
Concen: 19.628 ug/l
RT: 9.69 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	25.4	38.2
106	25.0	20.4	30.6

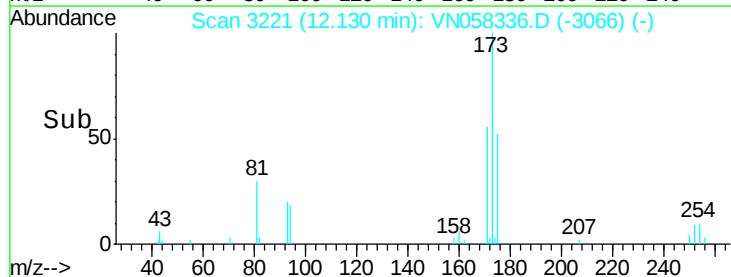
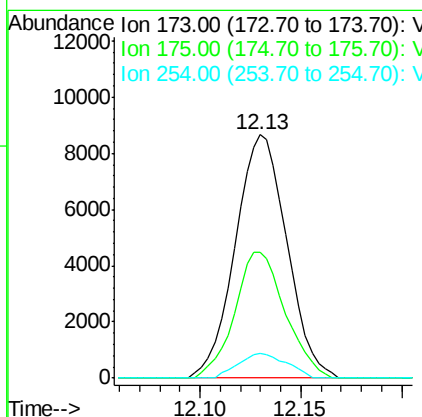
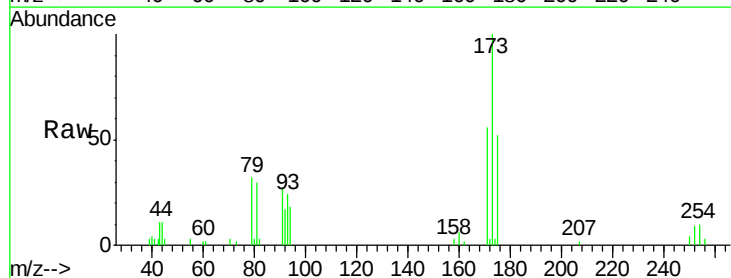
Manual Integrations
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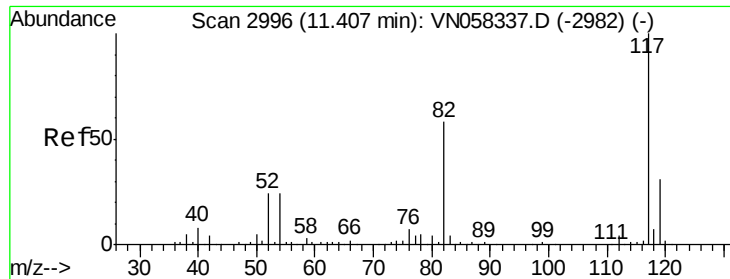
MMDadoda
9/25/2019 8:22:47 AM



#56
Bromoform
Concen: 3.779 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.5	38.8	58.2
254	9.6	7.8	11.8





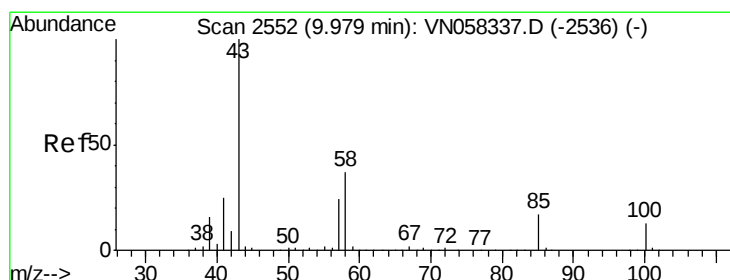
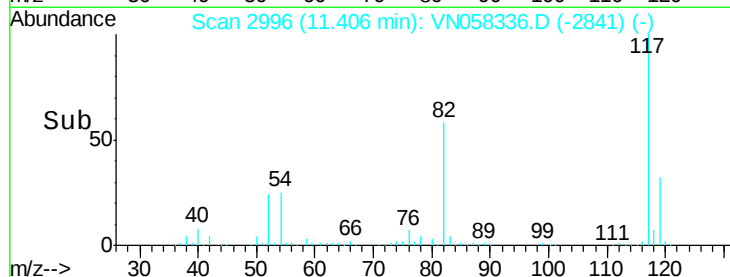
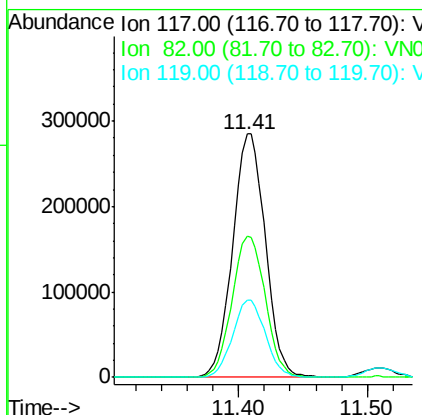
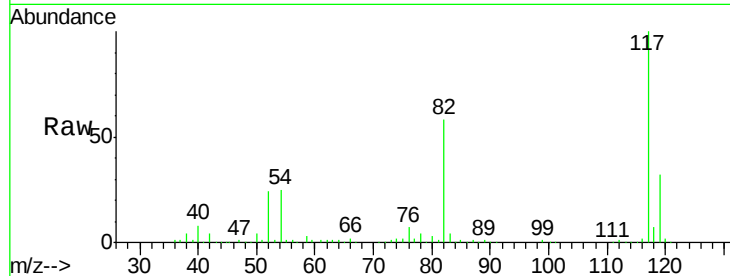
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
117	100	502625		
82	59.2	46.4	69.6	
119	31.8	25.1	37.7	

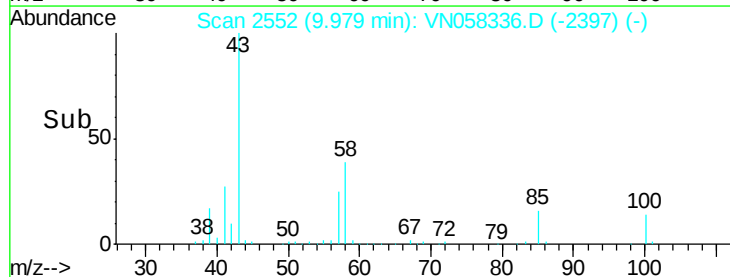
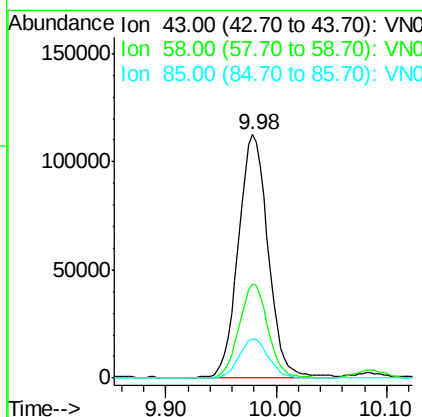
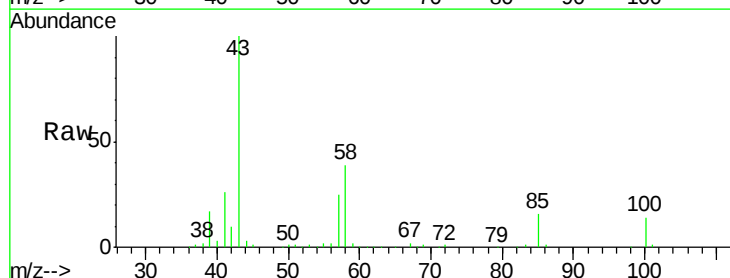
Manual Integrations
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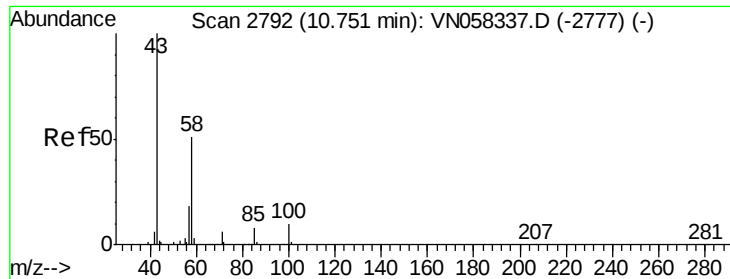
MMDadoda
9/25/2019 8:22:47 AM



#58
4-Methyl-2-Pentanone
Concen: 26.577 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	208909		
58	37.9	29.3	43.9	
85	15.9	13.1	19.7	





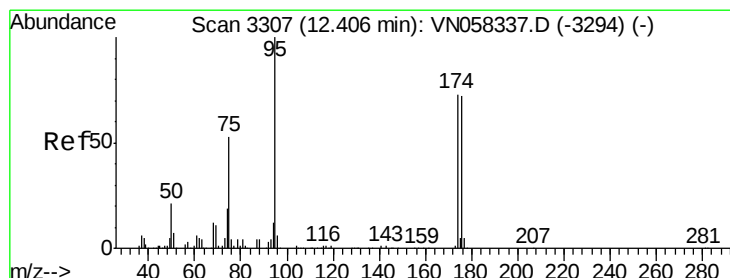
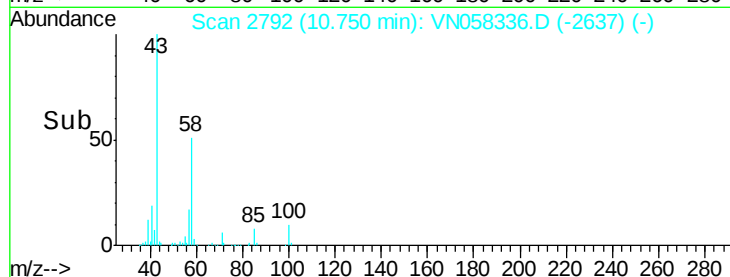
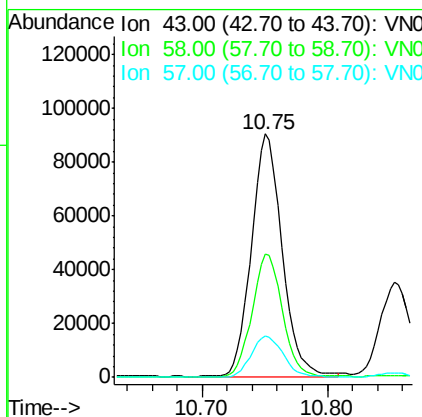
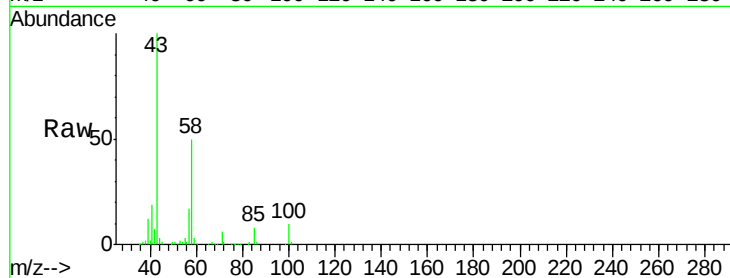
#59
2-Hexanone
Concen: 26.028 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.3	40.7	61.1
57	17.7	14.7	22.1

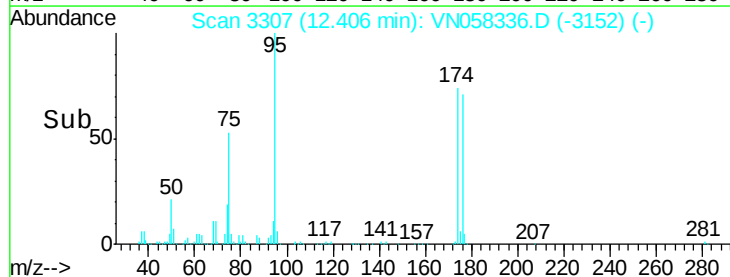
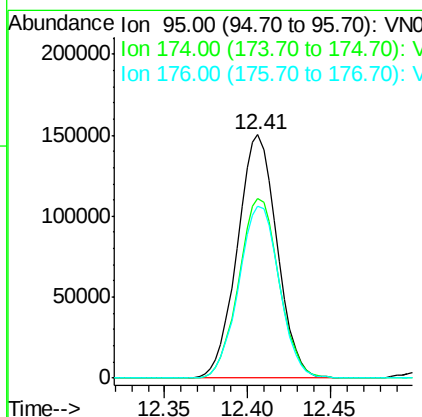
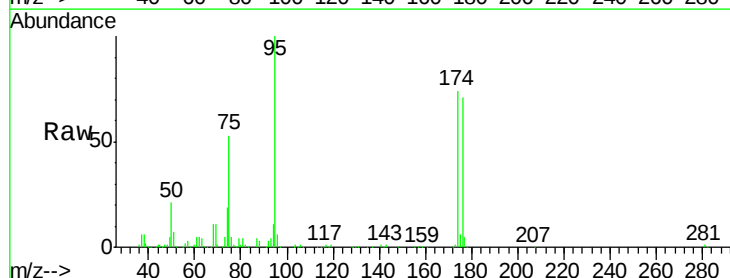
Manual Integrations
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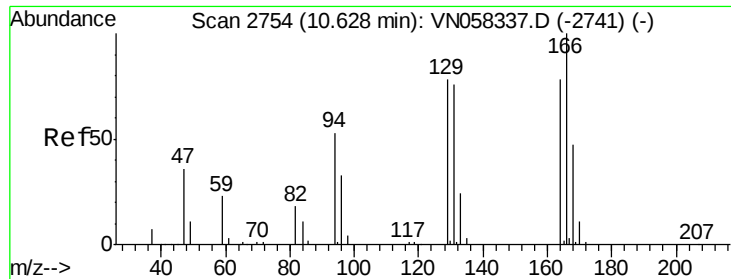
MMDadoda
9/25/2019 8:22:47 AM



#60
4-Bromofluorobenzene
Concen: 28.962 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.0	59.0	88.6
176	72.0	58.2	87.2





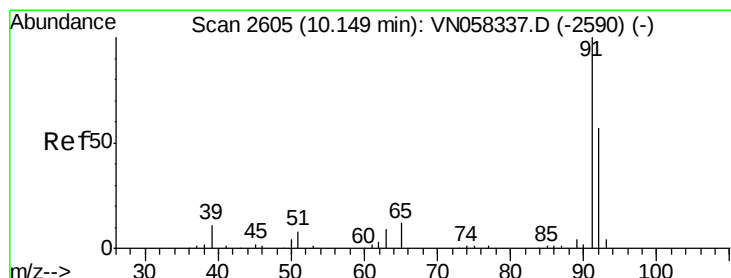
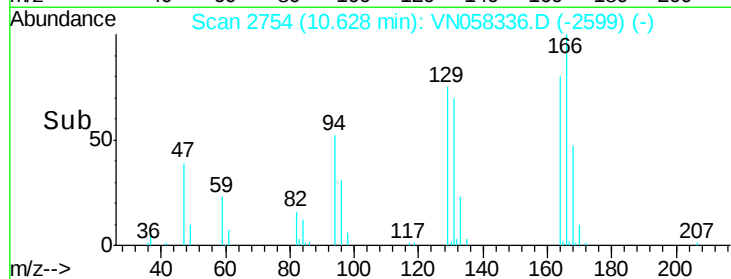
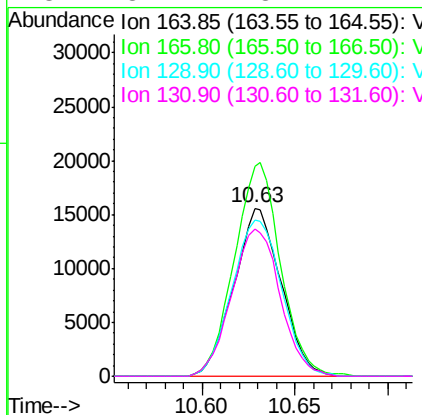
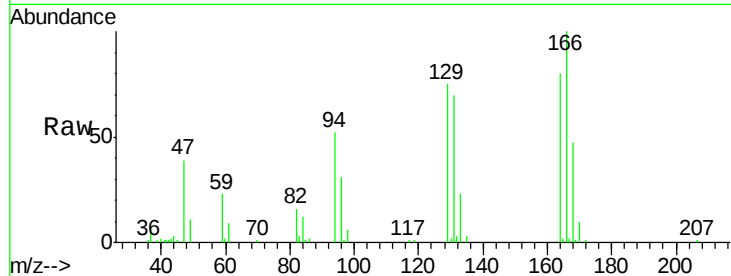
#61
 Tetrachloroethene
 Concen: 5.342 ug/l
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	164	Resp:	27586
Ion	Ratio	Lower	Upper
164	100		
166	124.7	102.6	154.0
129	93.0	79.8	119.6
131	87.4	78.1	117.1

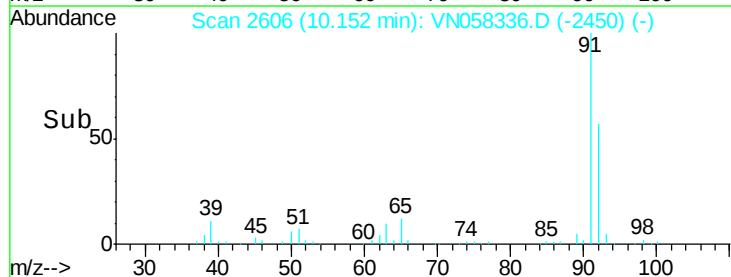
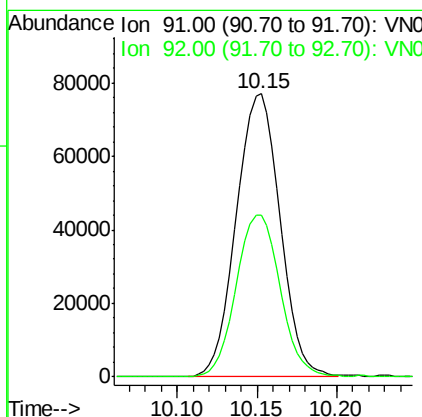
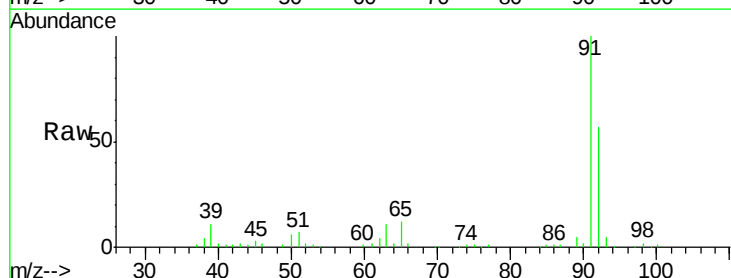
Manual Integrations
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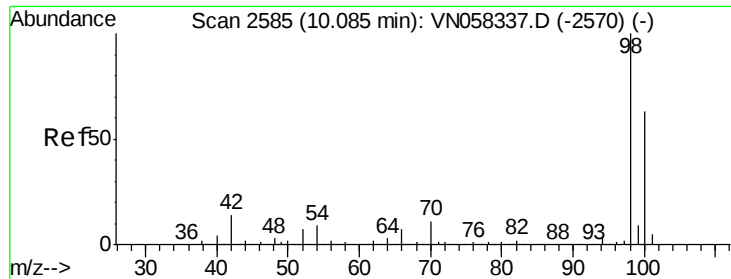
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 9/25/2019 8:22:47 AM



#62
 Toluene
 Concen: 5.154 ug/l
 RT: 10.15 min Scan# 2606
 Delta R.T. 0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion:	91	Resp:	143950
Ion	Ratio	Lower	Upper
91	100		
92	57.6	45.5	68.3





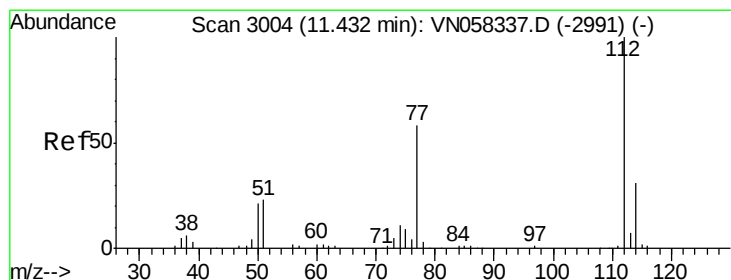
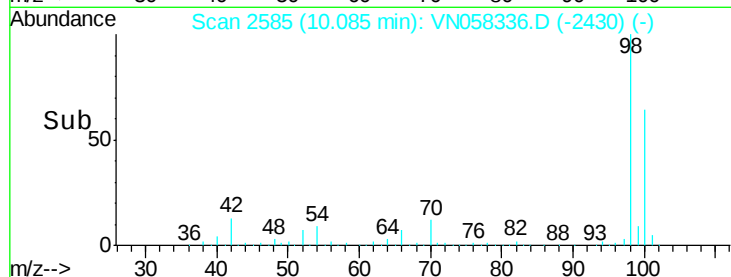
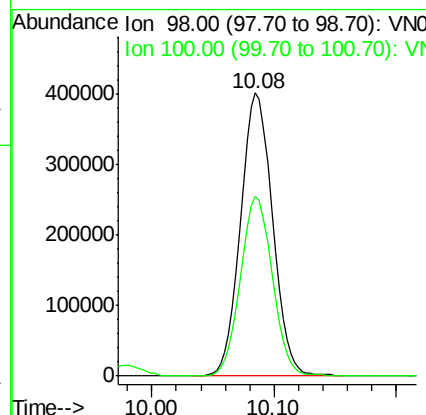
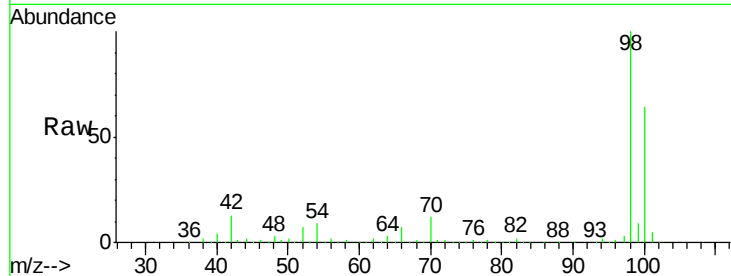
#63
Toluene-d8
Concen: 30.357 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 98 Resp: 729002
Ion Ratio Lower Upper
98 100
100 63.2 50.2 75.2

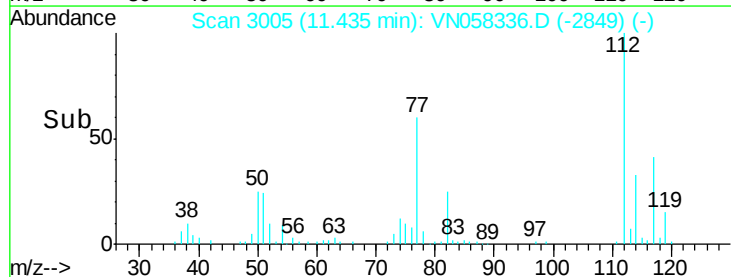
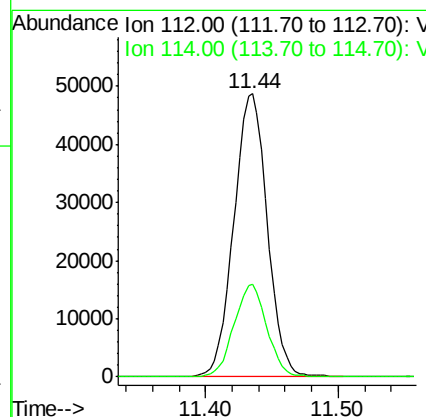
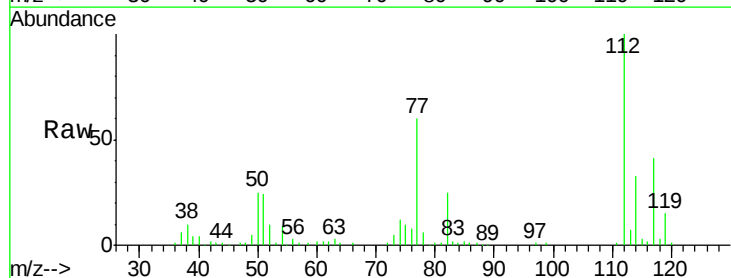
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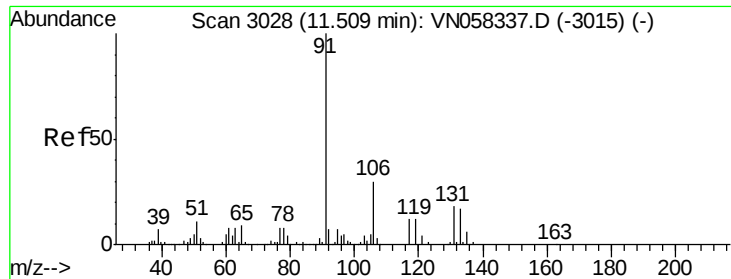
MMDadoda
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#64
Chlorobenzene
Concen: 4.925 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion: 112 Resp: 85275
Ion Ratio Lower Upper
112 100
114 32.9 25.1 37.7





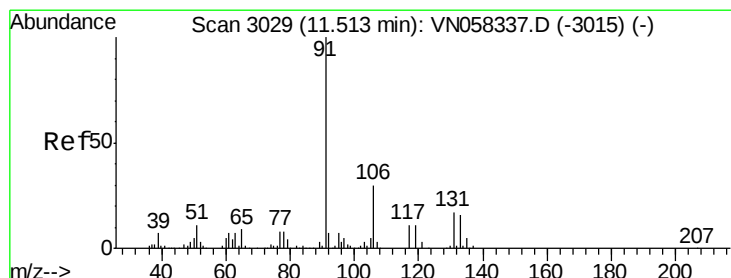
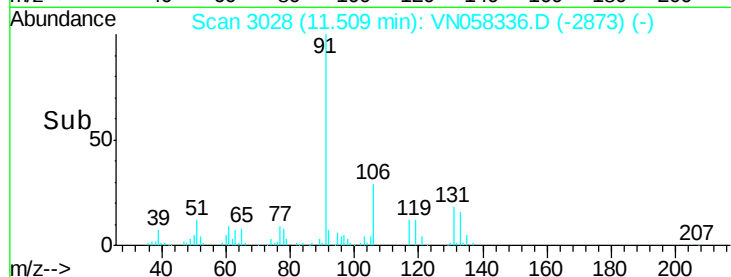
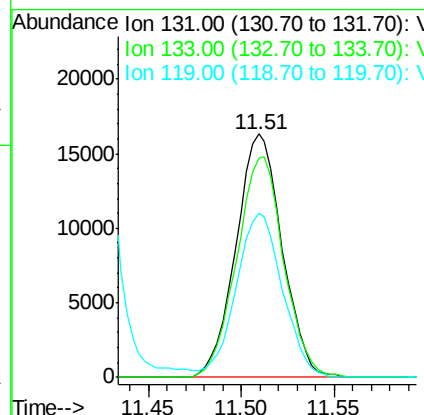
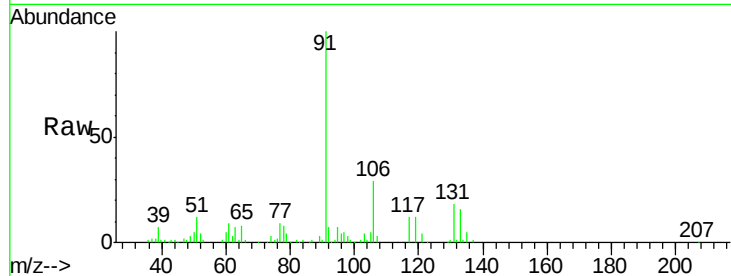
#65
 1,1,1,2-Tetrachloroethane
 Concen: 4.674 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
131	100	28180		
133	92.4	0.0	191.8	
119	67.9	0.0	134.2	

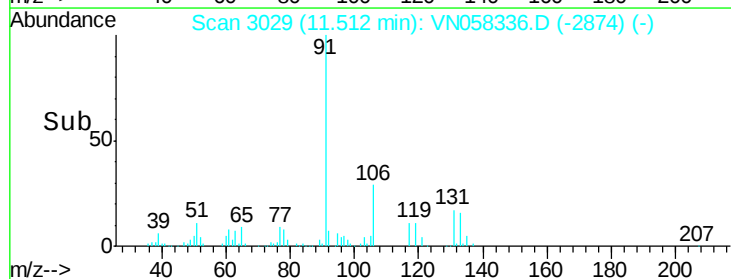
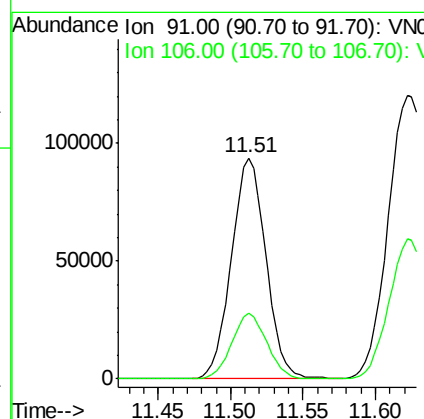
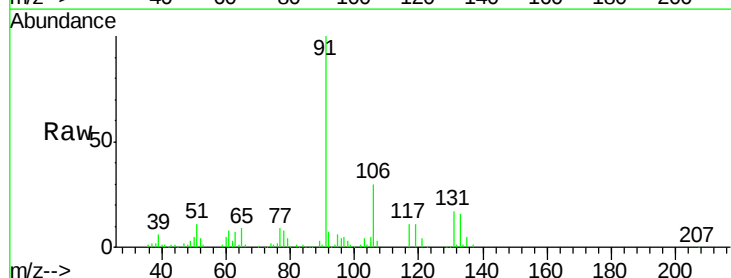
Manual Integrations
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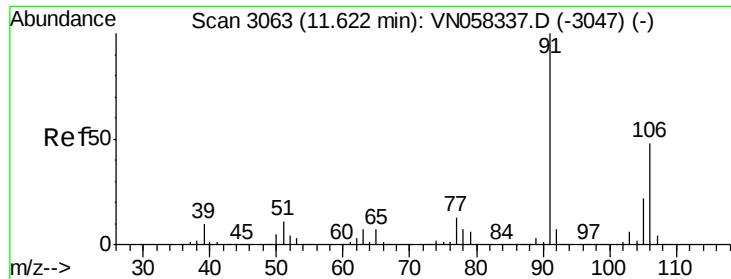
MMDadoda
 9/25/2019 8:22:47 AM



#66
 Ethyl Benzene
 Concen: 5.072 ug/l
 RT: 11.51 min Scan# 3029
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	155051		
106	29.6	24.2	36.4	





#67

m/p-Xvlenes

Concen: 9.752 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:106 Resp: 113869

Ion Ratio Lower Upper

106 100

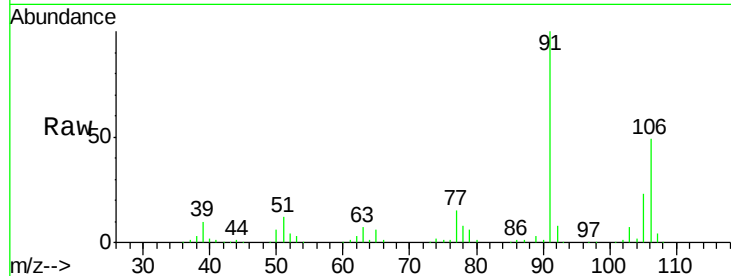
91 209.1 167.8 251.6

Manual Integrations

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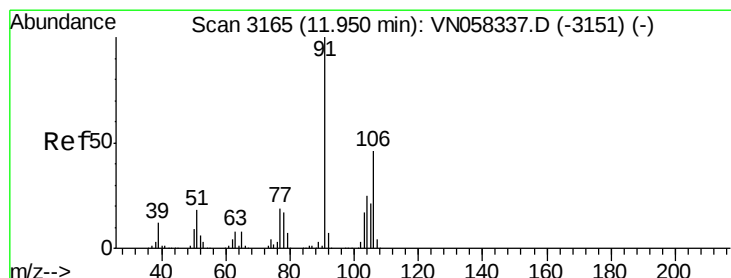
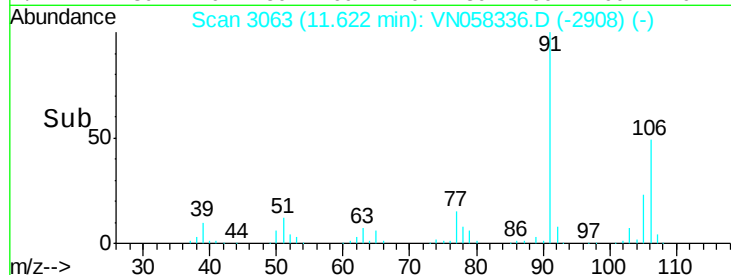
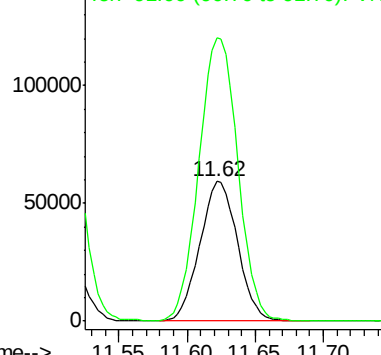
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 4.752 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. -0.00 min

Lab File: VN058336.D

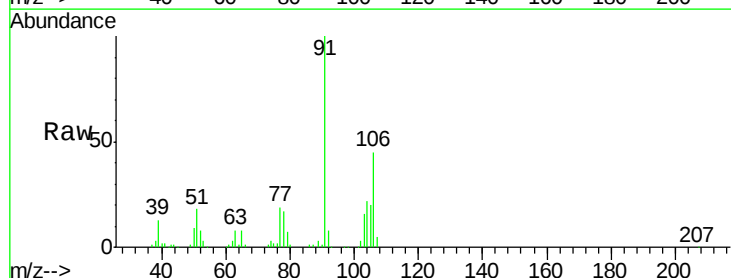
Acq: 24 Sep 2019 10:08

Tgt Ion:106 Resp: 54449

Ion Ratio Lower Upper

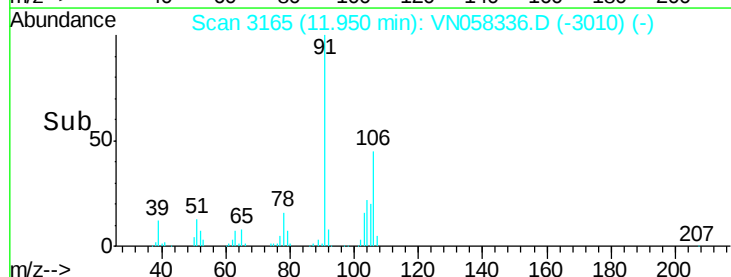
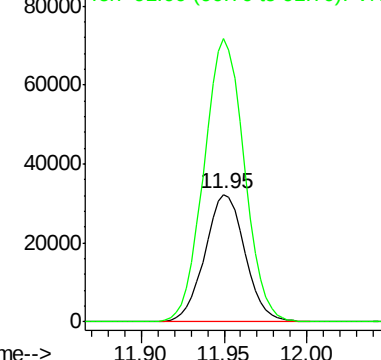
106 100

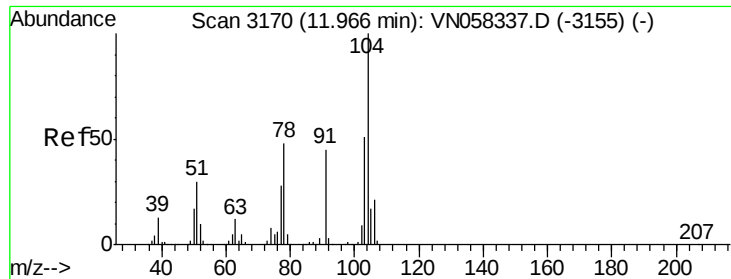
91 223.8 108.7 325.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





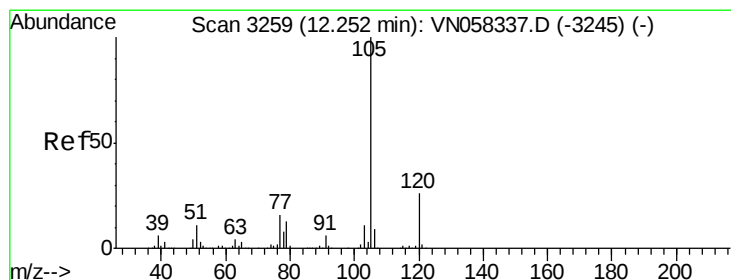
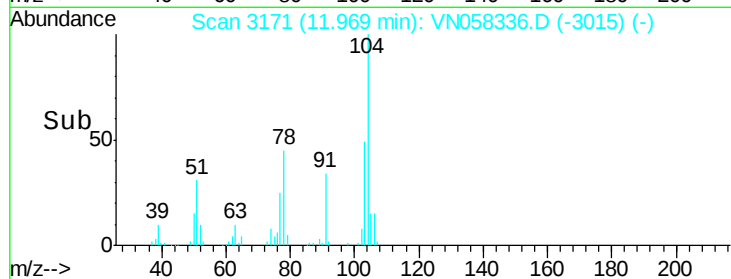
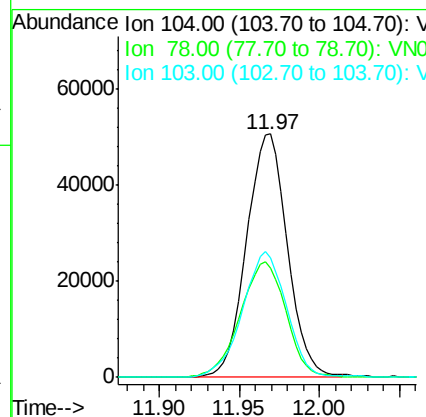
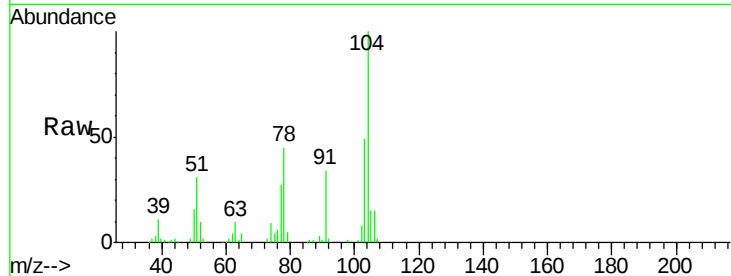
#69
Stvrene
Concen: 4.566 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
104	100	88669		
78	53.1		42.3	63.5
103	55.7		44.1	66.1

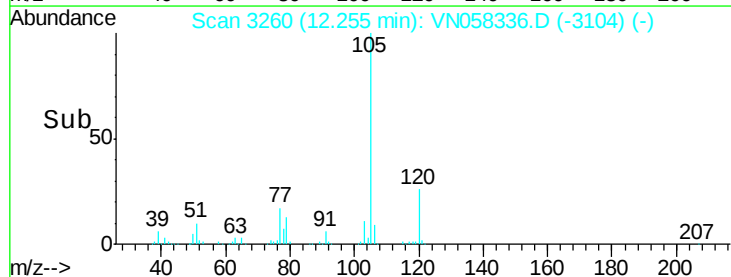
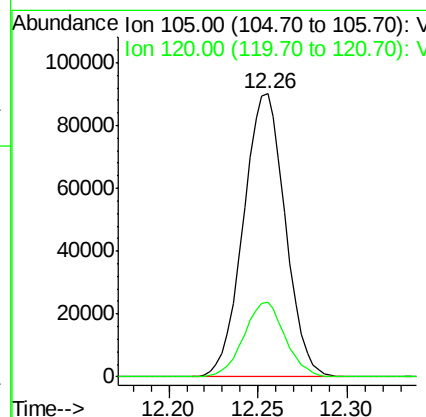
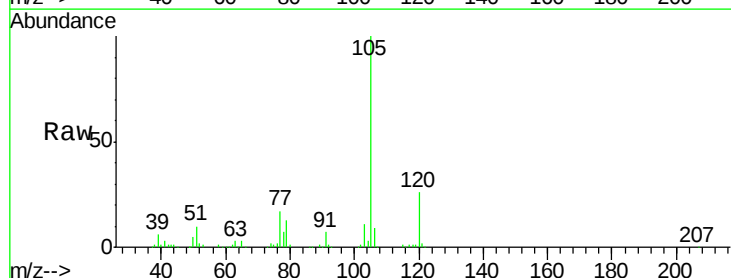
Manual Integrations
APPROVED

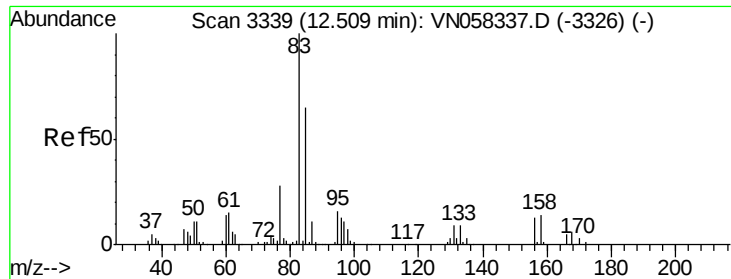
MMDadoda
9/25/2019 8:22:47 AM



#70
Isopropylbenzene
Concen: 4.914 ug/l
RT: 12.26 min Scan# 3260
Delta R.T. 0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	147837		
120	26.0		18.2	33.8





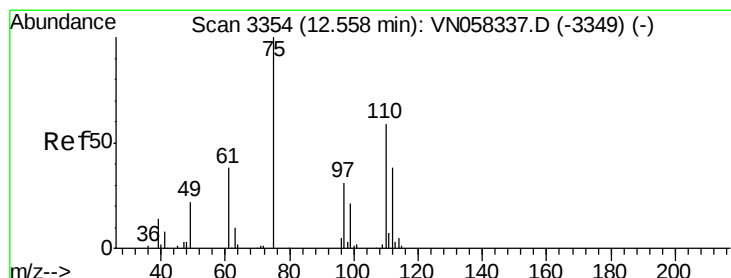
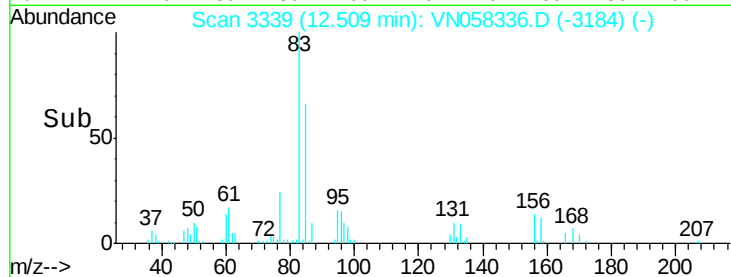
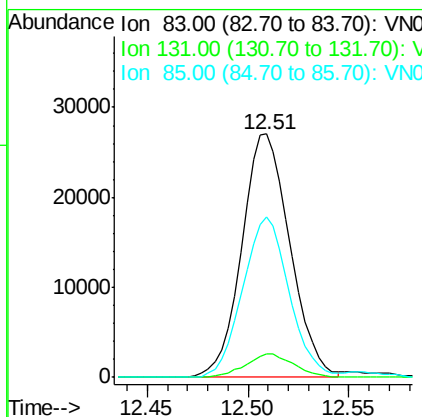
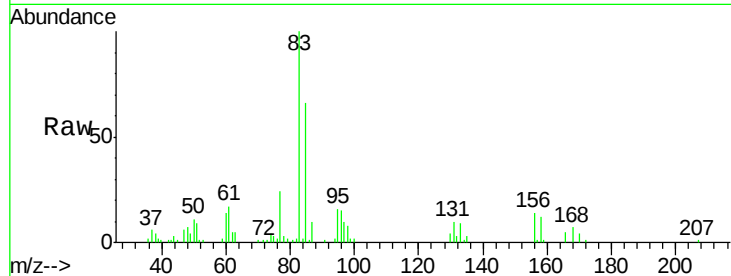
#71
 1,1,2,2-Tetrachloroethane
 Concen: 4.806 ug/l
 RT: 12.51 min Scan# 3339
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	83	Resp	45180
Ion Ratio	100	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	63.6	32.6	97.7

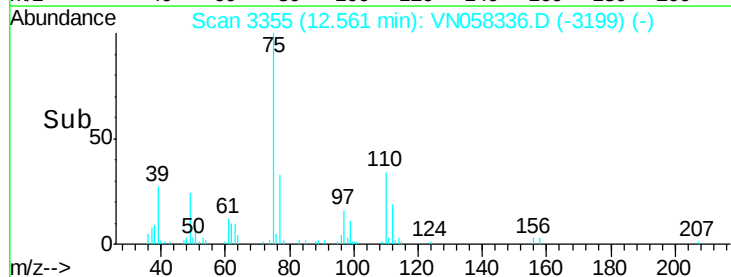
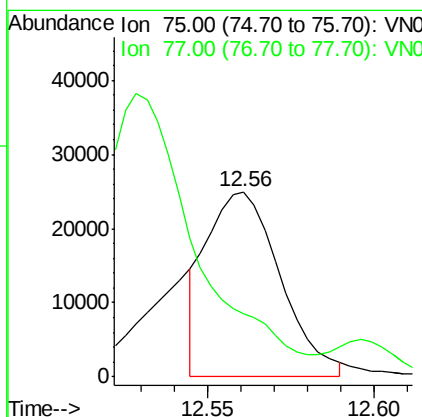
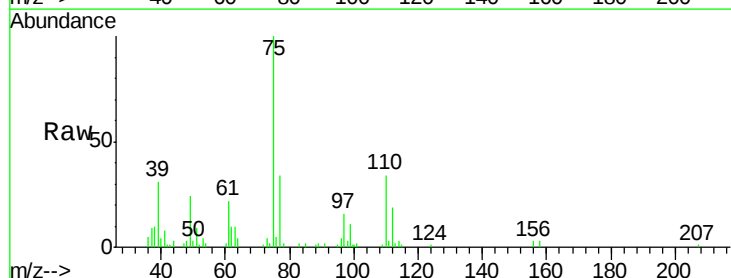
Manual Integrations
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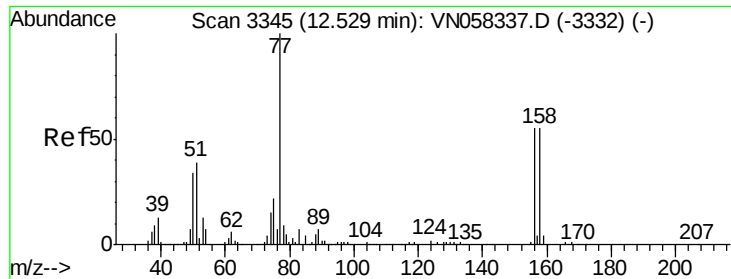
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 9/25/2019 8:22:47 AM



#72
 1,2,3-Trichloropropane
 Concen: 4.599 ug/l m
 RT: 12.56 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion	75	Resp	38365
Ion Ratio	100	Lower	Upper
75	100		
77	201.7	0.0	382.4





#73

Bromobenzene

Concen: 4.781 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

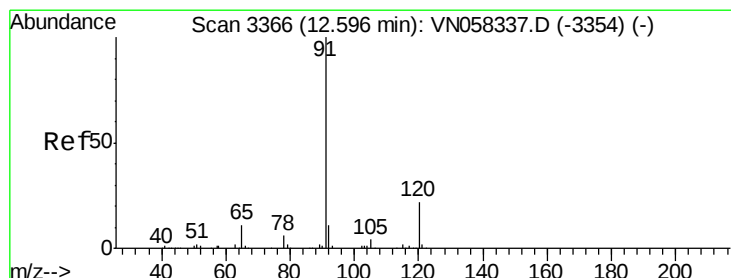
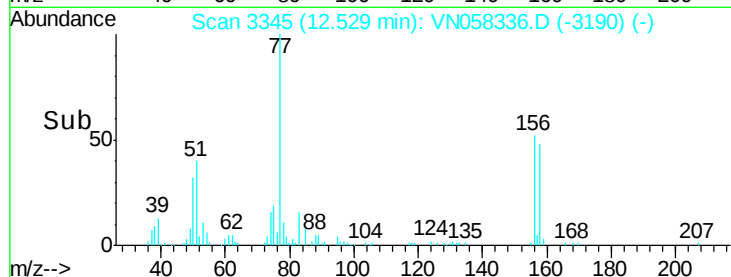
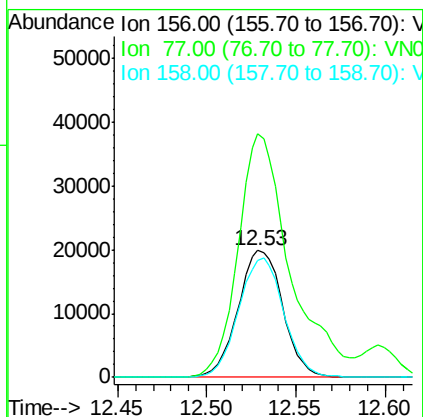
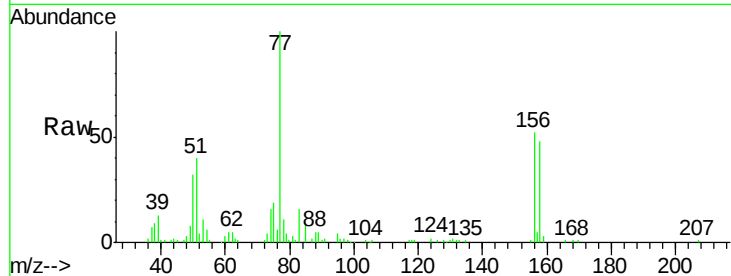
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	34701
Ion	Ratio	Lower	Upper
156	100		
77	223.0	0.0	438.8
158	95.2	0.0	195.6

Manual Integrations
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#74

n-propylbenzene

Concen: 4.945 ug/l

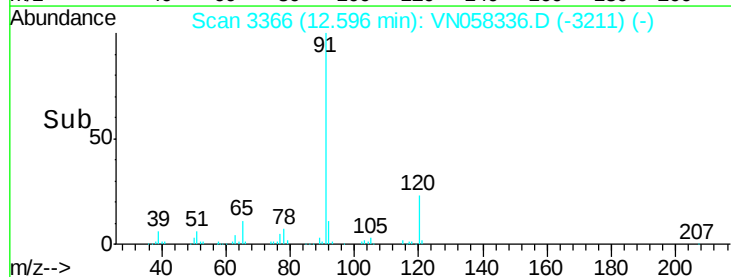
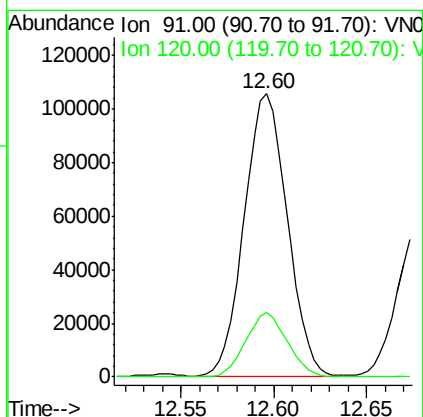
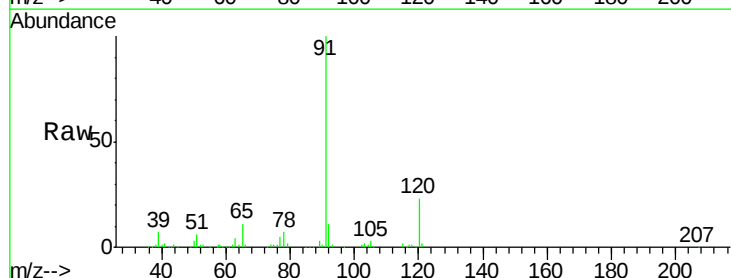
RT: 12.60 min Scan# 3366

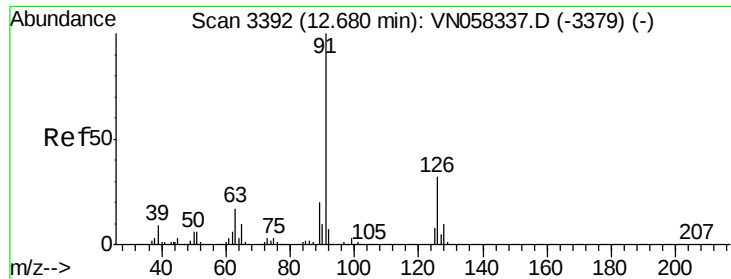
Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Tgt Ion:	91	Resp:	170367
Ion	Ratio	Lower	Upper
91	100		
120	21.9	0.0	44.0





#75

2-Chlorotoluene

Concen: 4.636 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 99672

Ion Ratio Lower Upper

91 100

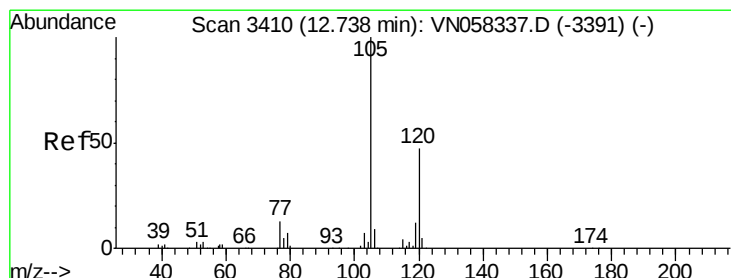
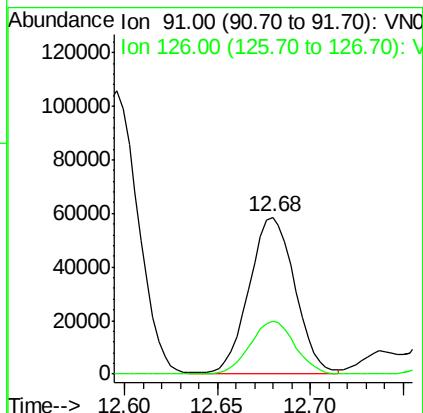
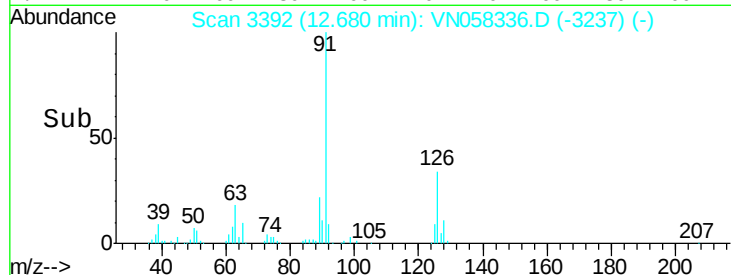
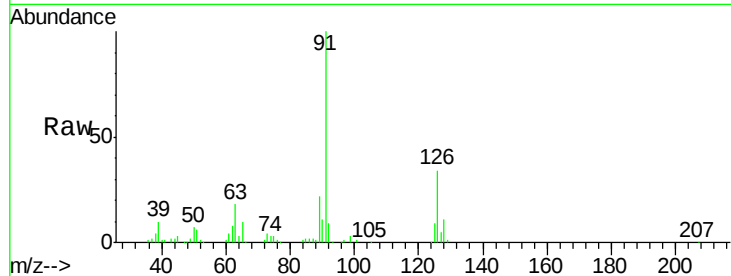
126 33.3 0.0 65.0

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 4.779 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058336.D

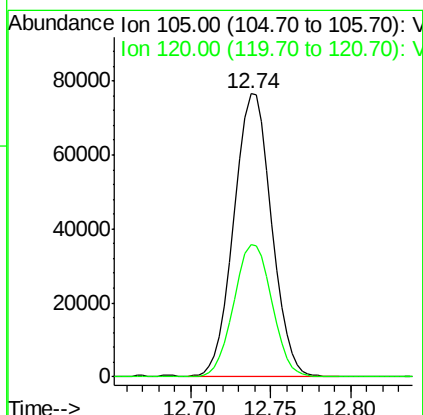
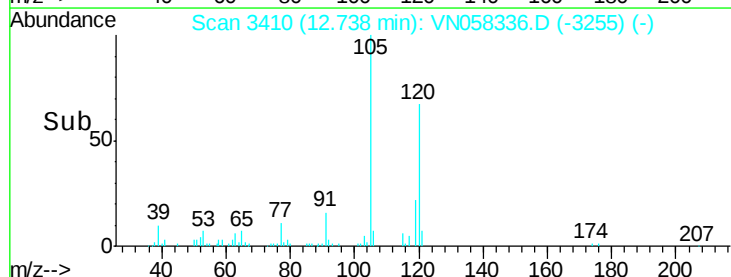
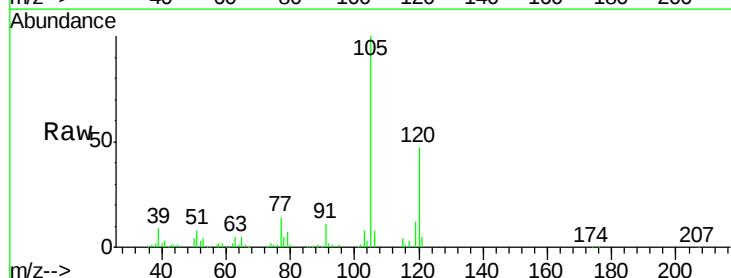
Acq: 24 Sep 2019 10:08

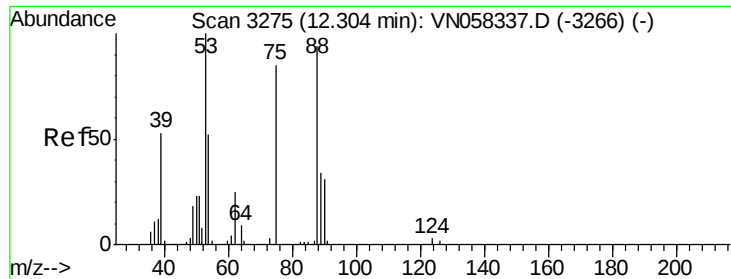
Tgt Ion: 105 Resp: 122867

Ion Ratio Lower Upper

105 100

120 47.4 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 3.116 ug/l

RT: 12.31 min Scan# 3276

Delta R.T. 0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

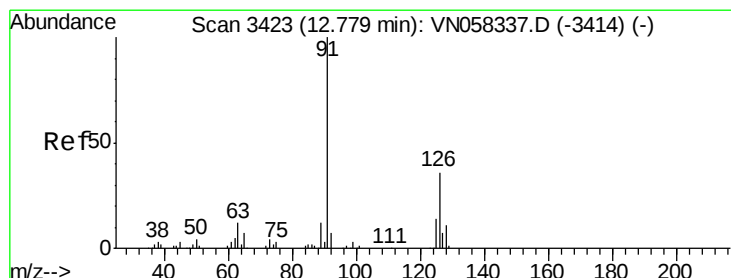
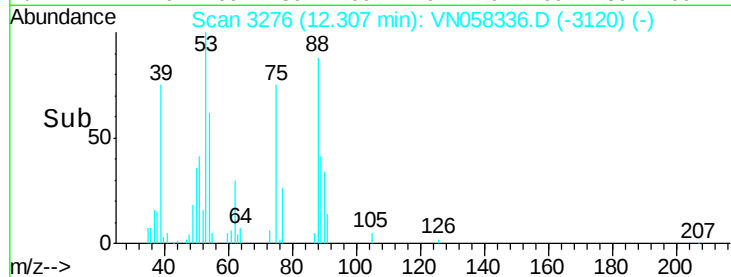
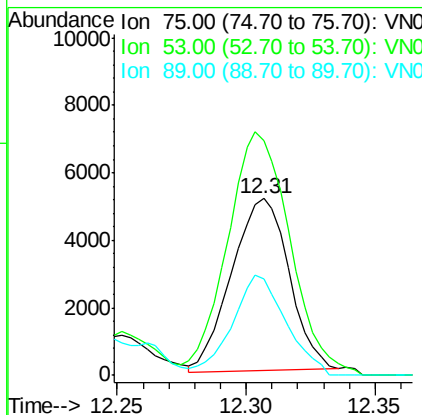
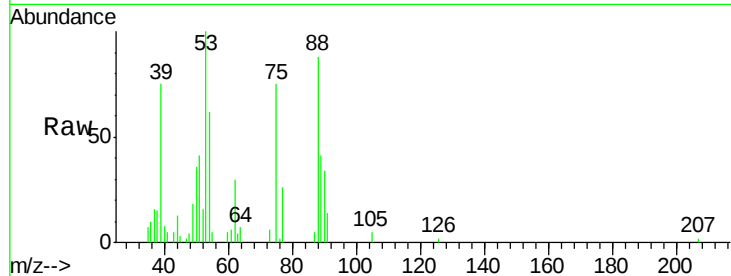
ClientSampleId :

VSTDIC005

Tot Ion:	75	Resp:	7881
Ion	Ratio	Lower	Upper
75	100		
53	131.5	59.0	176.8
89	56.6	21.6	65.0

Manual Integrations
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#78

4-Chlorotoluene

Concen: 4.635 ug/l

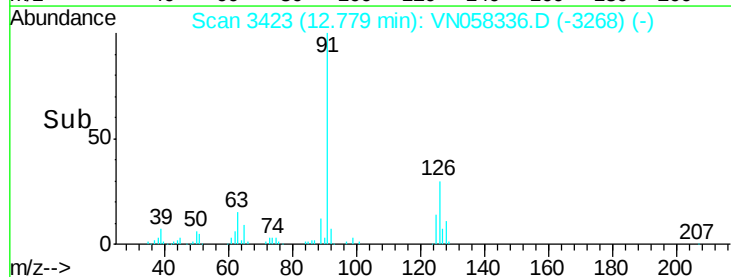
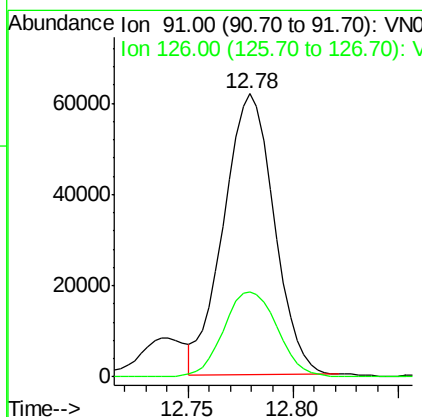
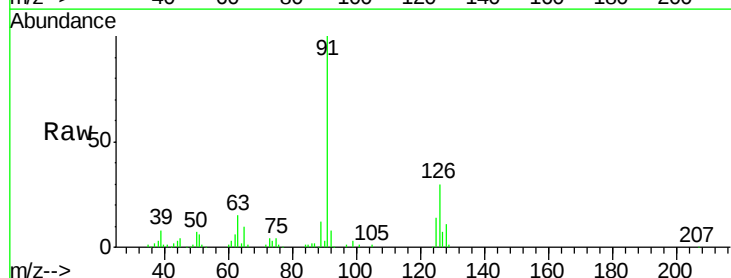
RT: 12.78 min Scan# 3423

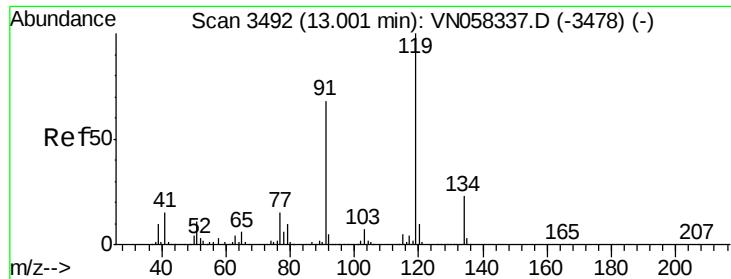
Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Tgt Ion:	91	Resp:	102105
Ion	Ratio	Lower	Upper
91	100		
126	32.5	0.0	63.8





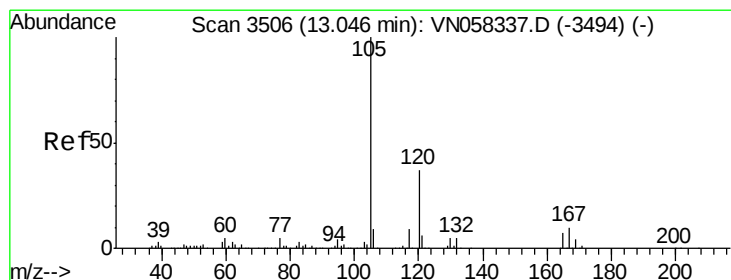
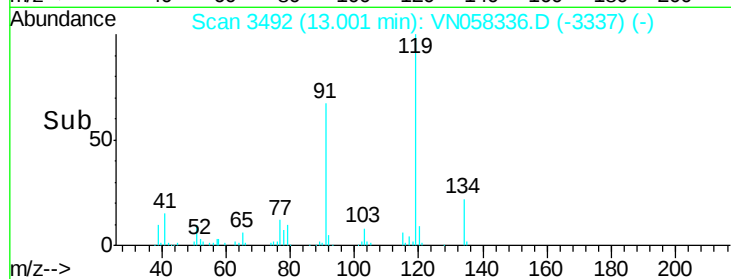
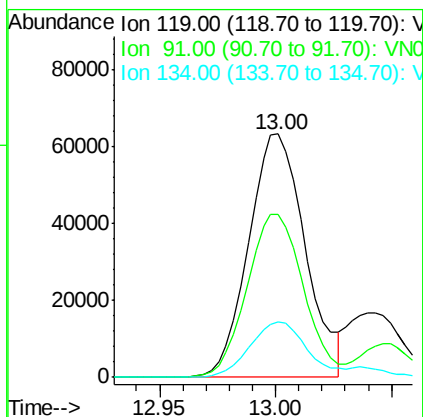
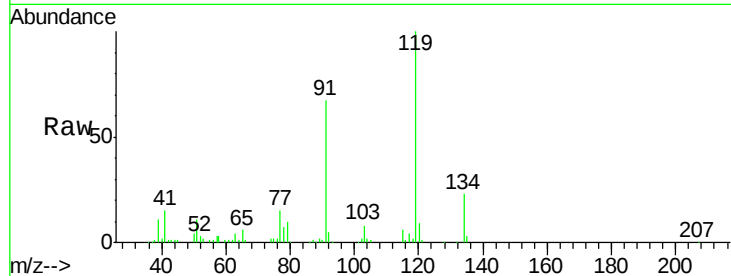
#79
tert-butylbenzene
Concen: 4.844 ug/l
RT: 13.00 min Scan# 3492
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
119	100	107916		
91	67.0		0.0	138.2
134	23.0		0.0	46.8

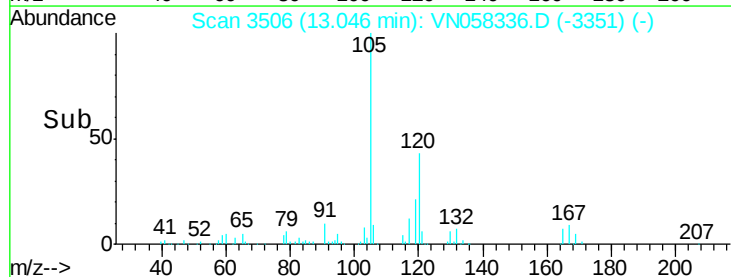
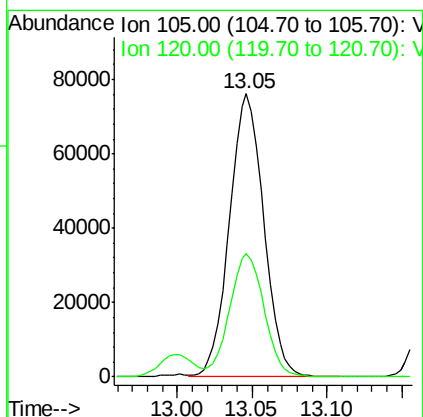
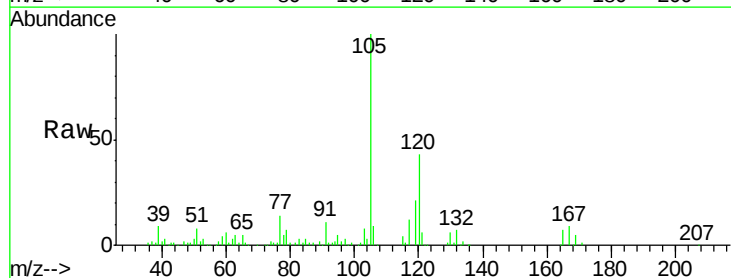
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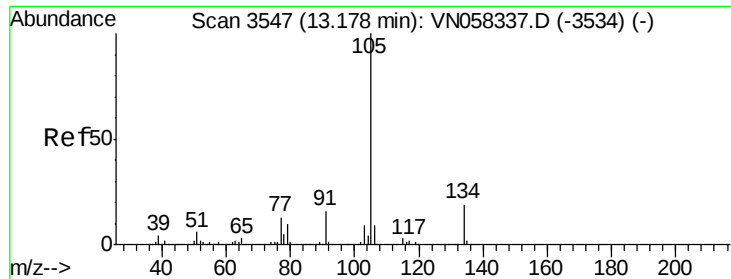
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 4.724 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	121303		
120	43.4		0.0	86.6





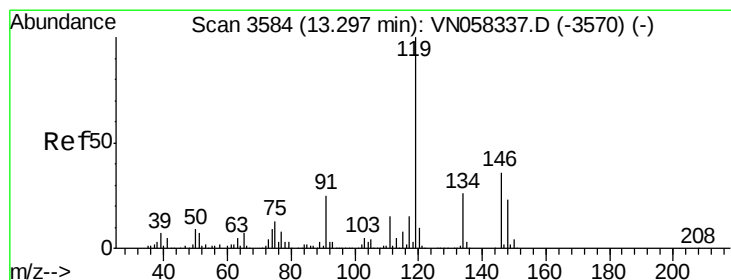
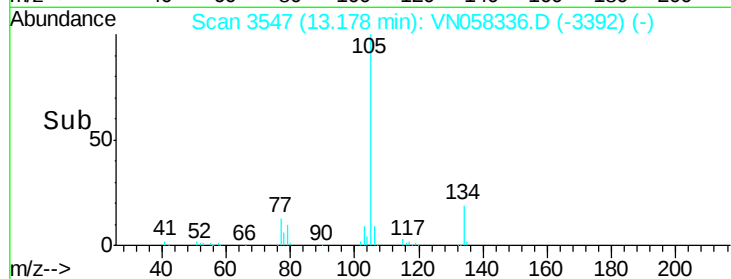
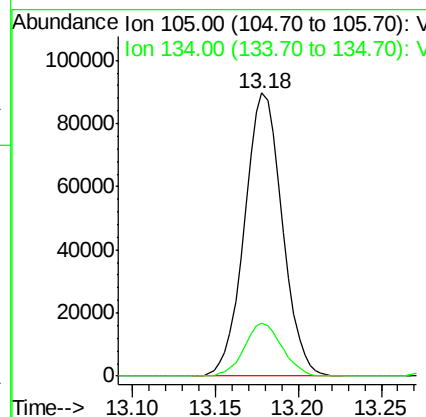
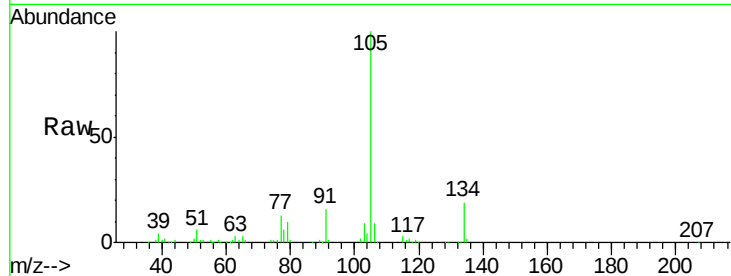
#81
 sec-Butylbenzene
 Concen: 4.739 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.8	0.0	38.2

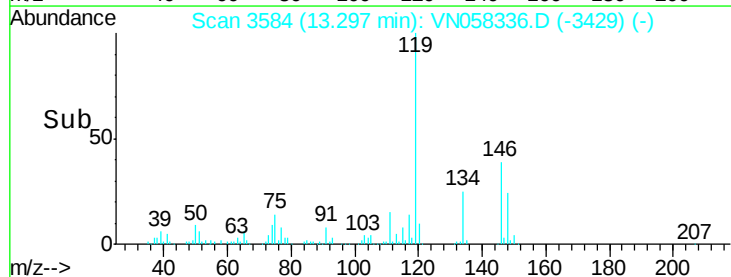
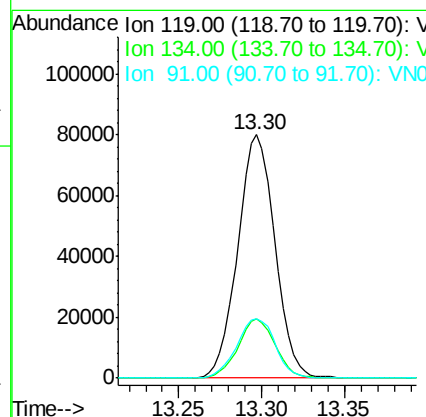
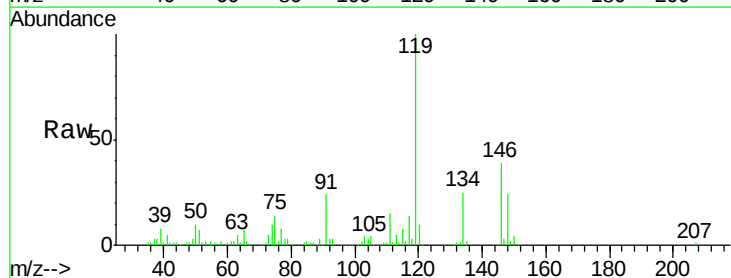
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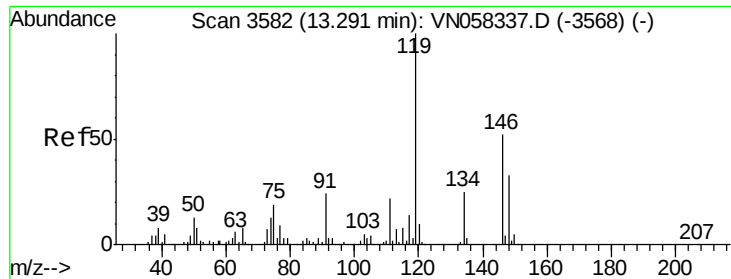
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#82
 p-Isopropyltoluene
 Concen: 4.699 ug/l
 RT: 13.30 min Scan# 3584
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.5	0.0	51.6
91	25.4	0.0	49.6





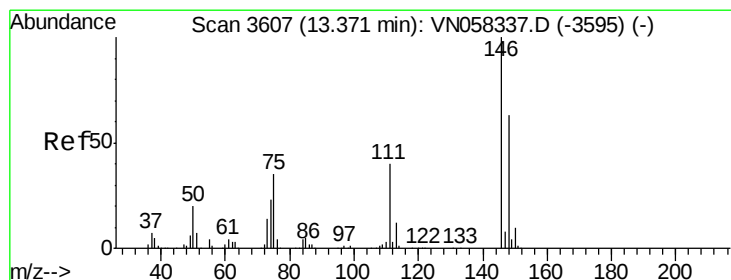
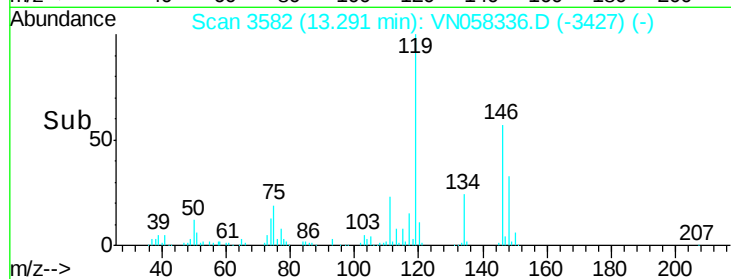
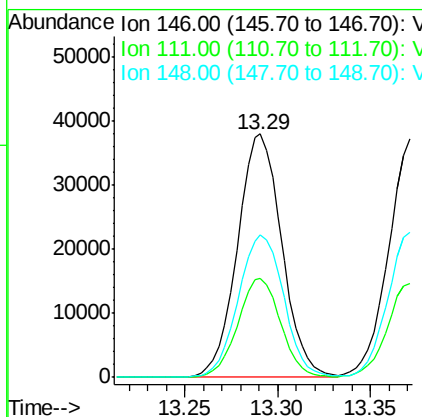
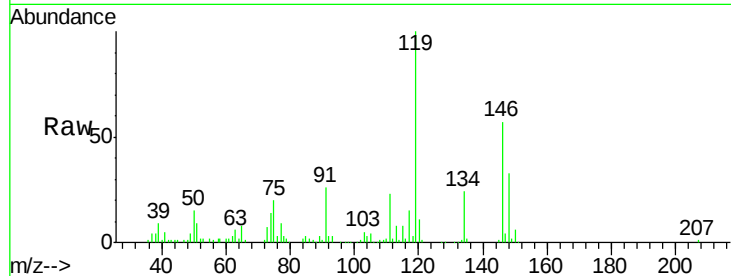
#83
 1,3-Dichlorobenzene
 Concen: 4.714 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.9	62.8
148	60.2	32.0	96.2

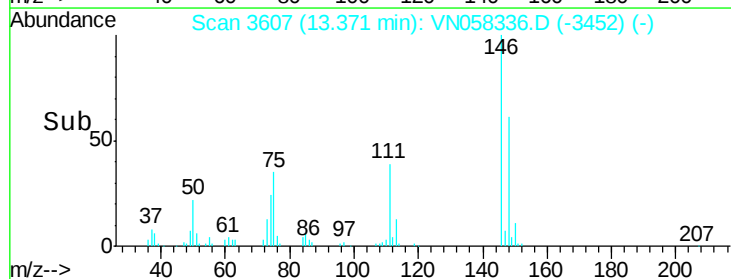
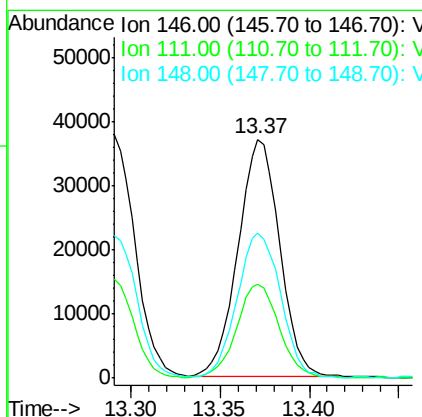
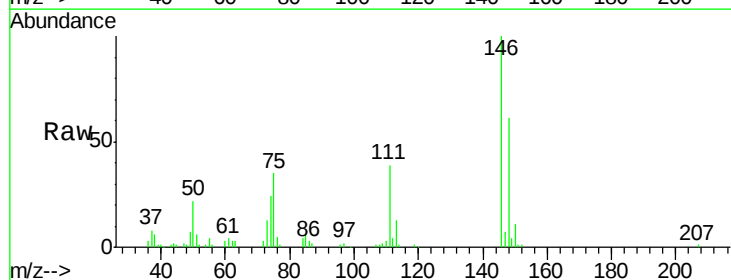
Manual Integrations
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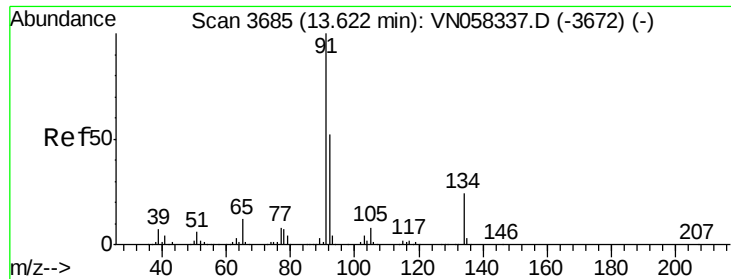
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 9/25/2019 8:22:47 AM



#84
 1,4-Dichlorobenzene
 Concen: 4.545 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.4	61.3
148	63.3	31.9	95.7





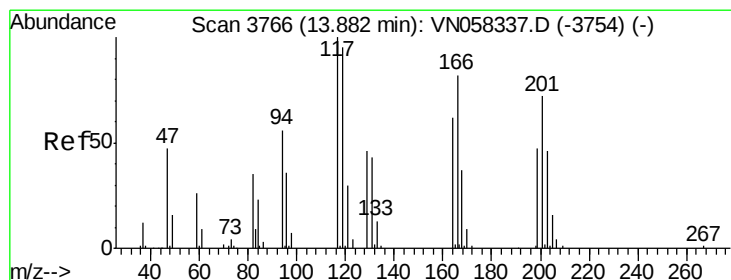
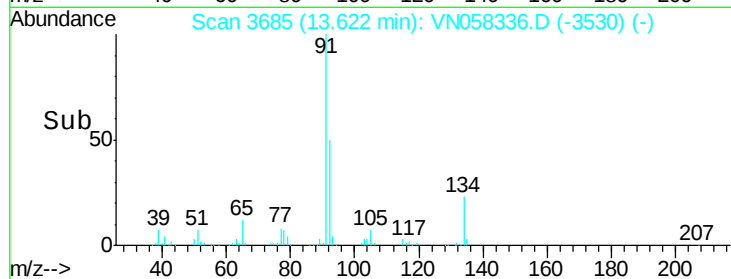
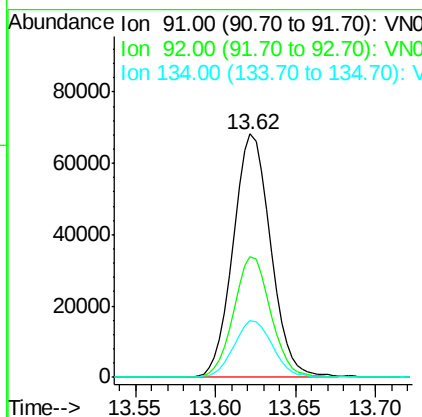
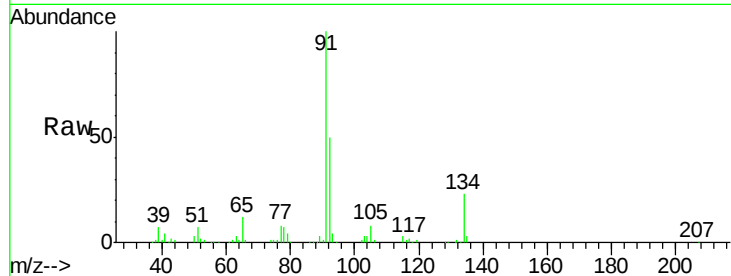
#85
n-Butylbenzene
Concen: 4.414 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
91	100	108994		
92	48.9	0.0	102.6	
134	23.8	0.0	47.8	

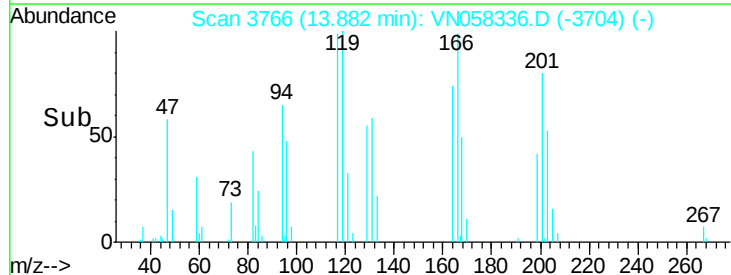
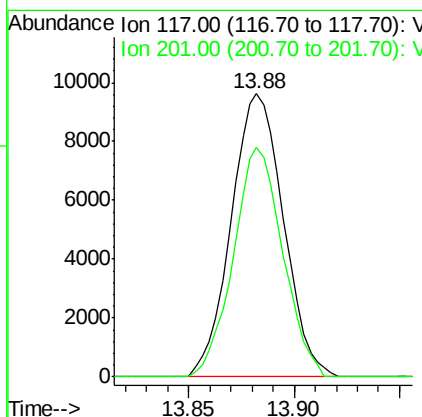
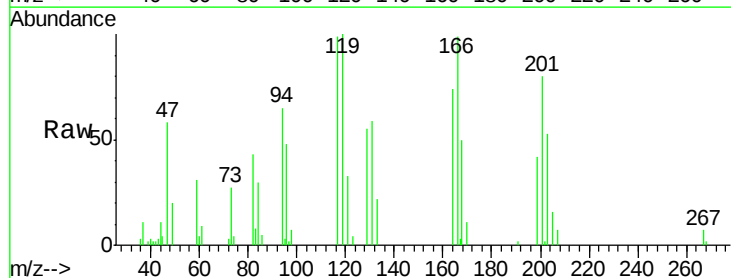
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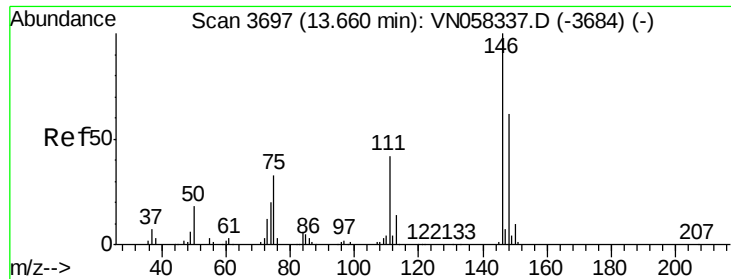
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9/25/2019 8:22:47 AM



#86
Hexachloroethane
Concen: 3.859 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	16493		
201	76.6	37.2	111.6	





#87

1,2-Dichlorobenzene

Concen: 4.682 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Instrument :

MSVOA_N

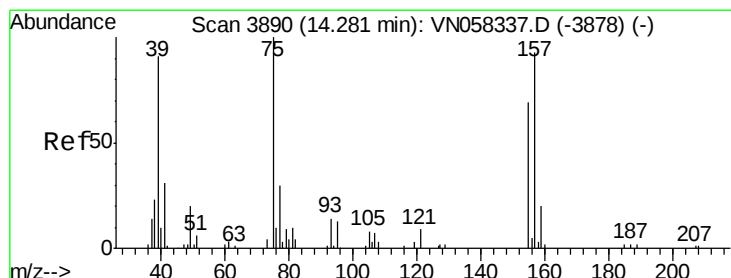
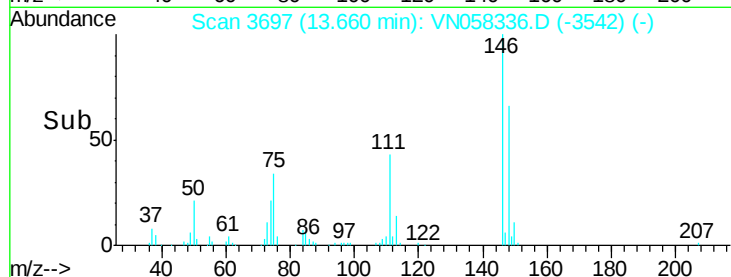
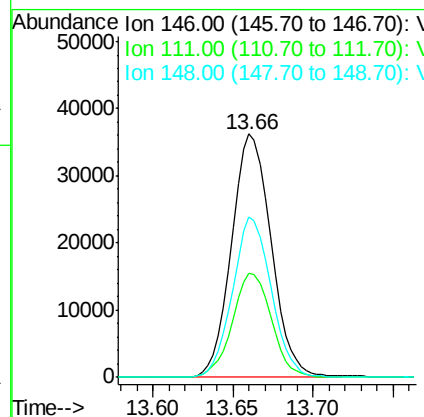
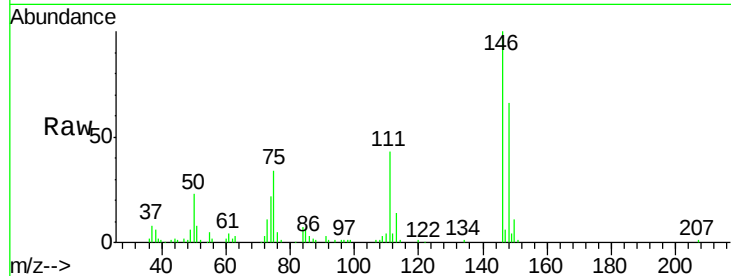
ClientSampleId :

VSTDIC005

Tot Ion:	146	Resp:	61230
Ion Ratio	Lower	Upper	
146	100		
111	42.0	21.1	63.3
148	64.0	31.9	95.7

Manual Integrations
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9/25/2019 8:22:47 AM



#88

1,2-Dibromo-3-Chloropropane

Concen: 4.789 ug/l

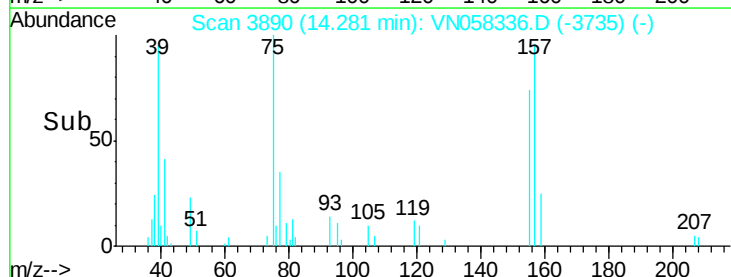
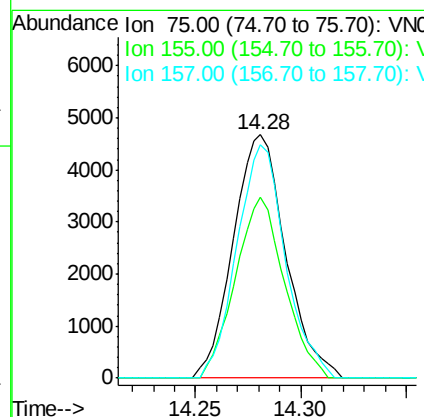
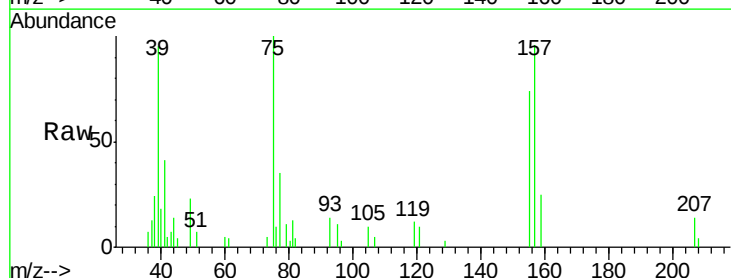
RT: 14.28 min Scan# 3890

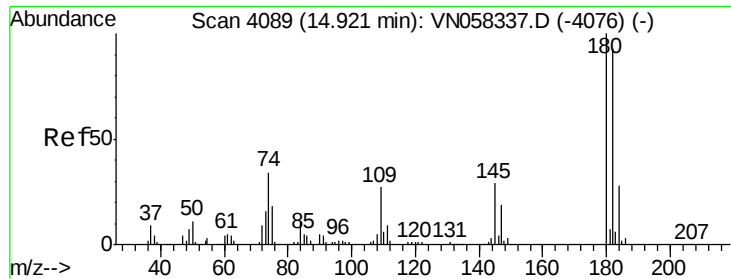
Delta R.T. -0.00 min

Lab File: VN058336.D

Acq: 24 Sep 2019 10:08

Tgt Ion:	75	Resp:	8085
Ion Ratio	Lower	Upper	
75	100		
155	69.2	58.5	87.7
157	88.7	75.4	113.2





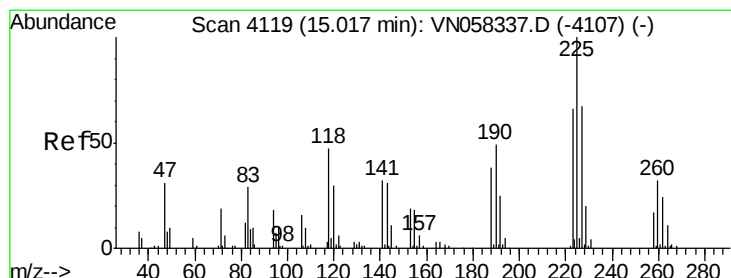
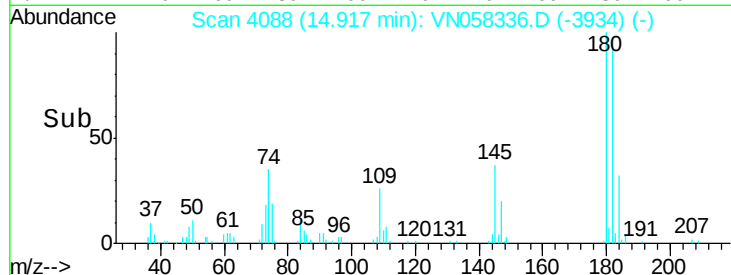
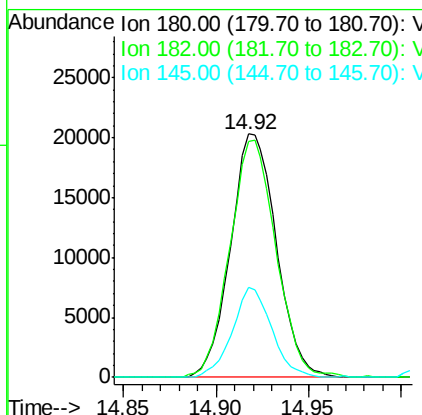
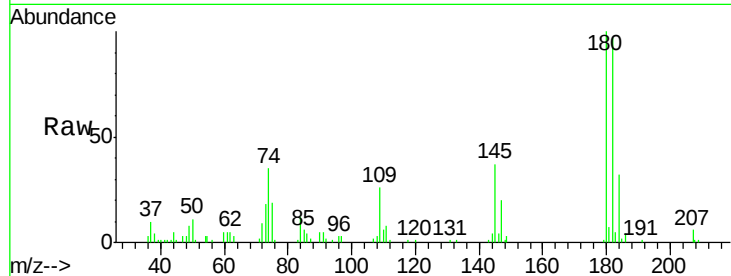
#89
 1,2,4-Trichlorobenzene
 Concen: 4.331 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.5	75.2	112.8
145	31.8	25.1	37.7

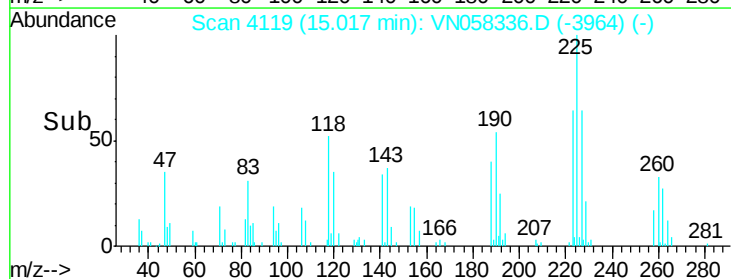
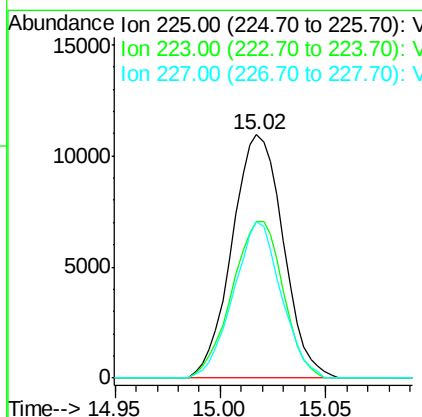
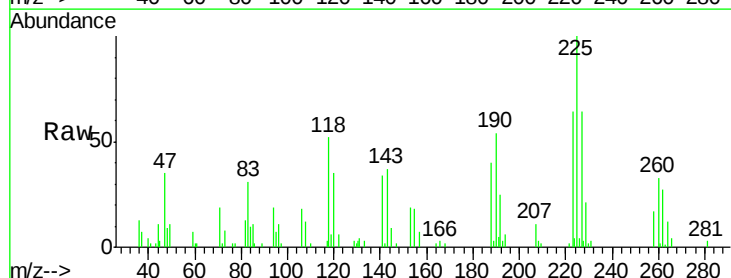
Manual Integrations
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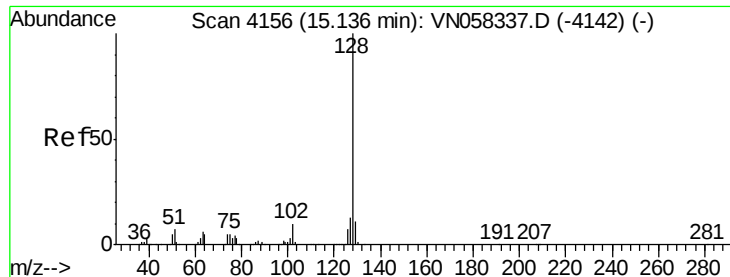
MMDadoda
 9/25/2019 8:22:47 AM



#90
 Hexachlorobutadiene
 Concen: 4.985 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. -0.00 min
 Lab File: VN058336.D
 Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.3	0.0	132.6
227	59.6	0.0	129.2





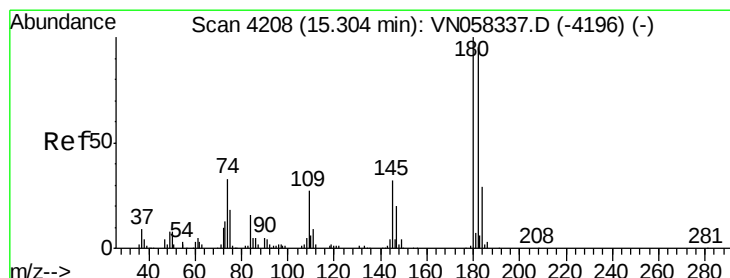
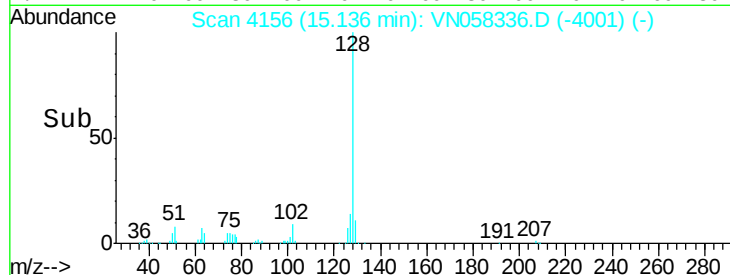
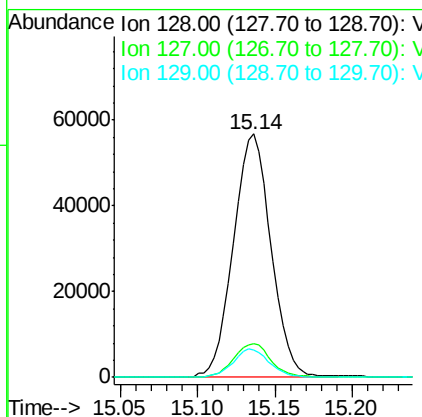
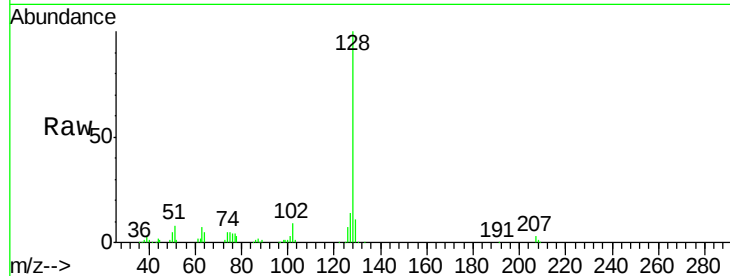
#91
Naphthalene
Concen: 4.378 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.4
129	11.2	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
9/25/2019 8:22:47 AM



#92
1,2,3-Trichlorobenzene
Concen: 4.510 ug/l
RT: 15.30 min Scan# 4208
Delta R.T. -0.00 min
Lab File: VN058336.D
Acq: 24 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	0.0	189.4
145	32.8	0.0	64.0

