

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082219\
 Data File : VN057442.D
 Acq On : 22 Aug 2019 19:08
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 8/23/2019 2:40:16 PM

Quant Time: Aug 23 04:46:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 04:20:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	403194	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	744808	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	695515	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	294759	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	1050058	211.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	423.72%	
35) Dibromofluoromethane	7.57	113	737572	149.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	299.56%	
50) Toluene-d8	10.08	98	2891579	159.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	318.12%	
62) 4-Bromofluorobenzene	12.40	95	1040870	162.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	325.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	760035	204.714	ug/l	97
3) Chloromethane	2.04	50	949853	210.538	ug/l	99
4) Vinyl Chloride	2.17	62	1195239	261.691	ug/l	98
5) Bromomethane	2.52	94	758932m	241.399	ug/l	
6) Chloroethane	2.67	64	743856	243.914	ug/l	96
7) Trichlorofluoromethane	2.99	101	1776993	251.744	ug/l	98
8) Diethyl Ether	3.39	74	633601	240.327	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	947005	234.765	ug/l	100
10) Methyl Iodide	3.92	142	810177	145.191	ug/l	100
11) Tert butyl alcohol	4.79	59	663461	996.997	ug/l	97
12) 1,1-Dichloroethene	3.70	96	943803	234.941	ug/l	99
13) Acrolein	3.58	56	541042	1180.026	ug/l	97
14) Allyl chloride	4.29	41	1380435	221.312	ug/l	100
15) Acrylonitrile	4.96	53	1777363	990.921	ug/l	100
16) Acetone	3.80	43	1547617	950.813	ug/l	100
17) Carbon Disulfide	4.01	76	1874948	187.840	ug/l	100
18) Methyl Acetate	4.30	43	1043029	158.130	ug/l	99
19) Methyl tert-butyl Ether	5.02	73	2315375	195.687	ug/l	99
20) Methylene Chloride	4.52	84	734168	167.719	ug/l	99
21) trans-1,2-Dichloroethene	5.00	96	687949	175.142	ug/l	98
22) Diisopropyl ether	5.93	45	2848463	228.455	ug/l	99
23) Vinyl Acetate	5.87	43	11213109	1129.540	ug/l	100
24) 1,1-Dichloroethane	5.82	63	1471073	199.335	ug/l	99
25) 2-Butanone	6.82	43	2539448	1062.405	ug/l	98
26) 2,2-Dichloropropane	6.80	77	1221641	203.135	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	826405	177.143	ug/l	99
28) Bromochloromethane	7.18	49	809791	230.502	ug/l	99
29) Tetrahydrofuran	7.20	42	1692460	1104.882	ug/l	99
30) Chloroform	7.36	83	1456851	190.718	ug/l	99
31) Cyclohexane	7.63	56	1411182	209.670	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	1301675	202.566	ug/l	99
36) 1,1-Dichloropropene	7.78	75	1102575	164.463	ug/l	99
37) Ethyl Acetate	6.91	43	1068110	189.371	ug/l	99
38) Carbon Tetrachloride	7.76	117	1073797	155.650	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	1333073	169.463	ug/l	98
40) Benzene	8.03	78	3215461	157.719	ug/l	99
41) Methacrylonitrile	7.16	41	566592	220.130	ug/l	90
42) 1,2-Dichloroethane	8.11	62	1231902	177.951	ug/l	100
43) Isopropyl Acetate	8.16	43	1975288	162.861	ug/l	99
44) Trichloroethene	8.82	130	744685	133.870	ug/l	96
45) 1,2-Dichloropropane	9.11	63	907127	170.344	ug/l	100
46) Dibromomethane	9.20	93	558965	158.964	ug/l	98
47) Bromodichloromethane	9.40	83	1210659	172.400	ug/l	99
48) Methyl methacrylate	9.19	41	939524	198.803	ug/l	98
49) 1,4-Dioxane	9.20	88	248079	2742.710	ug/l	94
51) 4-Methyl-2-Pentanone	9.98	43	5605096	957.577	ug/l	100
52) Toluene	10.15	92	1990378	158.615	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	1337097	176.814	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	1423072	171.096	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	745835	151.264	ug/l	99
56) Ethyl methacrylate	10.43	69	1283178	175.630	ug/l	99
57) 1,3-Dichloropropane	10.70	76	1336566	160.289	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1847961	985.728	ug/l	100
59) 2-Hexanone	10.75	43	3973348	955.527	ug/l	100
60) Dibromochloromethane	10.90	129	843619	154.137	ug/l	99
61) 1,2-Dibromoethane	11.00	107	777594	148.992	ug/l	97
64) Tetrachloroethene	10.63	164	634094	108.826	ug/l	97
65) Chlorobenzene	11.43	112	1990364	141.426	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	726985	135.105	ug/l	100
67) Ethyl Benzene	11.51	91	3841734	152.819	ug/l	100
68) m/p-Xylenes	11.62	106	2730486	298.504	ug/l	100
69) o-Xylene	11.95	106	1330938	148.007	ug/l	99
70) Styrene	11.96	104	2315343	161.471	ug/l	100
71) Bromoform	12.13	173	544438	131.217	ug/l #	99
73) Isopropylbenzene	12.25	105	3654876	126.437	ug/l	100
74) N-amyl acetate	12.07	43	1748013	187.456	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	1061113	125.535	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	932669m	128.667	ug/l	
77) Bromobenzene	12.53	156	771085	105.734	ug/l	99
78) n-propylbenzene	12.59	91	4298349	147.634	ug/l	100
79) 2-Chlorotoluene	12.68	91	2493591	134.135	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	3026638	130.167	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	383143	154.777	ug/l	97
82) 4-Chlorotoluene	12.77	91	2546103	148.211	ug/l	99
83) tert-Butylbenzene	12.99	119	2514222	117.541	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2940320	136.192	ug/l	99
85) sec-Butylbenzene	13.17	105	3487737	134.835	ug/l	99
86) p-Isopropyltoluene	13.29	119	2980312	135.738	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1322311	130.105	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	1321825	135.976	ug/l	98
89) n-Butylbenzene	13.62	91	2785755	172.492	ug/l	100
90) Hexachloroethane	13.88	117	605622	132.097	ug/l	100
91) 1,2-Dichlorobenzene	13.66	146	1311839	138.047	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	210366	188.943	ug/l	97

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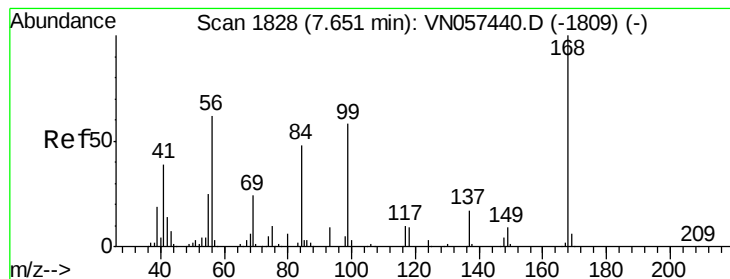
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	614110	193.670	ug/l	98
94) Hexachlorobutadiene	15.01	225	329083	78.460	ug/l	100
95) Naphthalene	15.13	128	1909053	258.460	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	609872	200.085	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:168 Resp: 403194

Ion Ratio Lower Upper

168 100

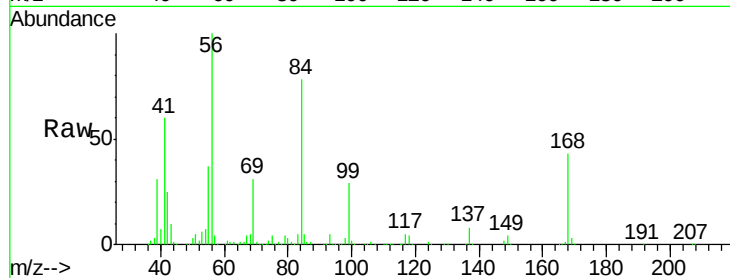
99 65.9 50.6 76.0

Manual Integrations

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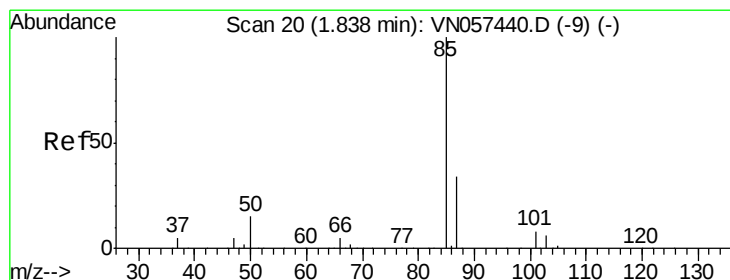
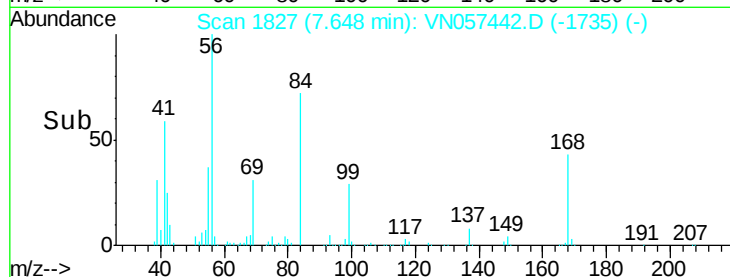
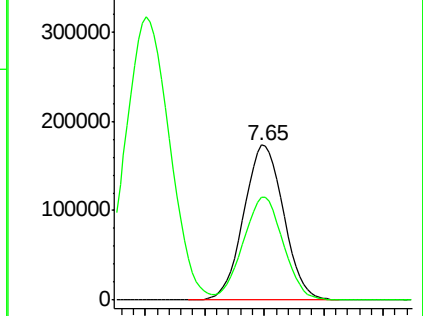
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 204.714 ug/l

RT: 1.84 min Scan# 20

Delta R.T. -0.00 min

Lab File: VN057442.D

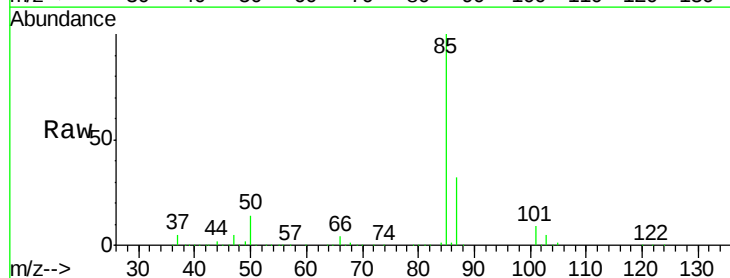
Acq: 22 Aug 2019 19:08

Tgt Ion: 85 Resp: 760035

Ion Ratio Lower Upper

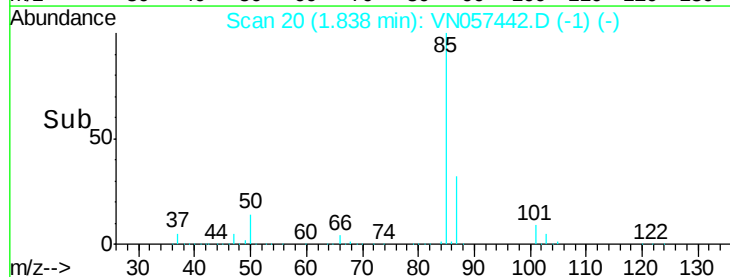
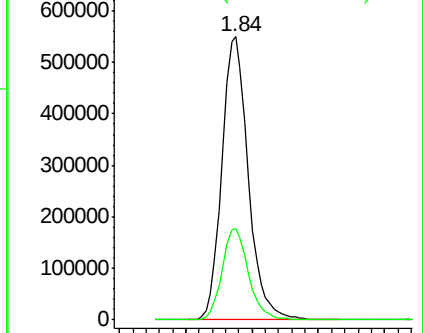
85 100

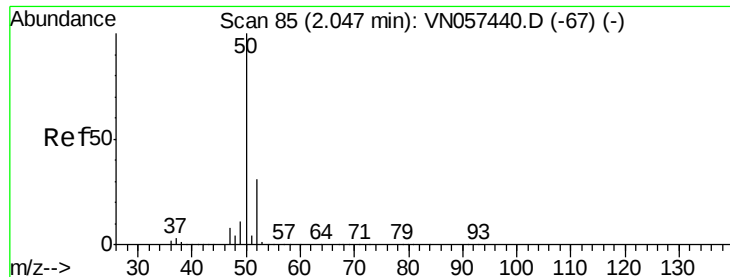
87 32.4 17.1 51.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 210.538 ug/l

RT: 2.04 min Scan# 84

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 949853

Ion Ratio Lower Upper

50 100

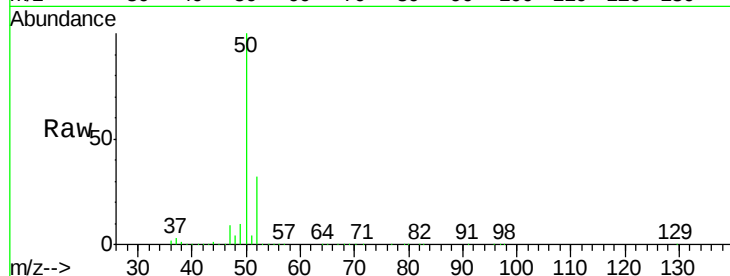
52 32.2 25.1 37.7

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

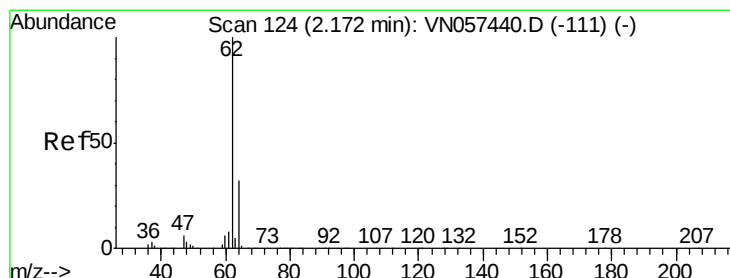
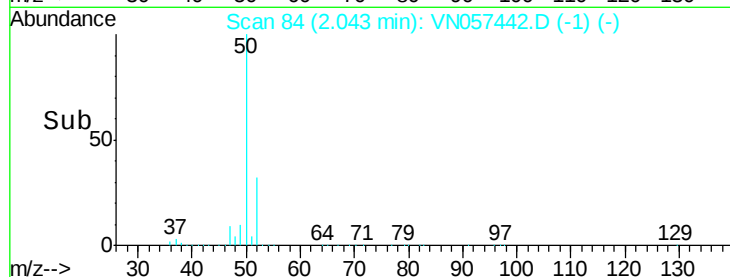
600000

400000

200000

0

Time-->



#4

Vinyl Chloride

Concen: 261.691 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN057442.D

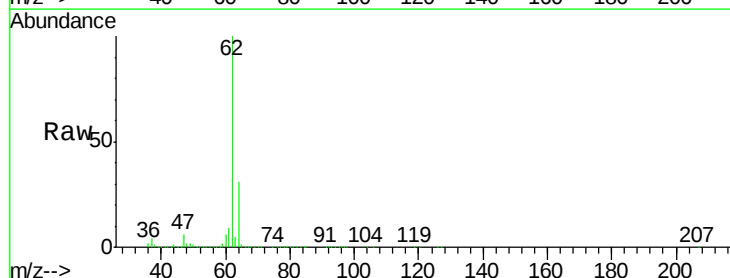
Acq: 22 Aug 2019 19:08

Tgt Ion: 62 Resp: 1195239

Ion Ratio Lower Upper

62 100

64 31.4 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

800000

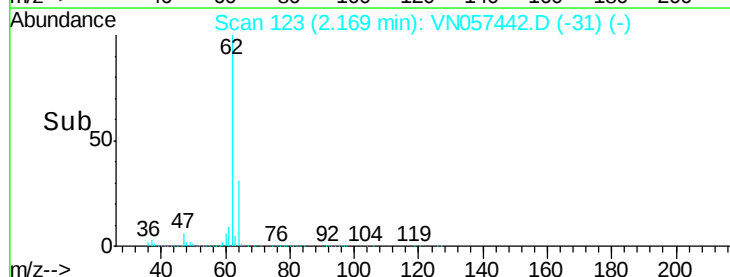
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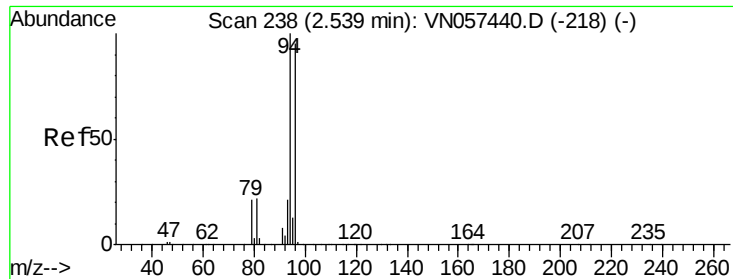
400000

200000

0

Time-->





#5

Bromomethane

Concen: 241.399 ug/l m

RT: 2.52 min Scan# 232

Delta R.T. -0.02 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 758932

Ion Ratio Lower Upper

94 100

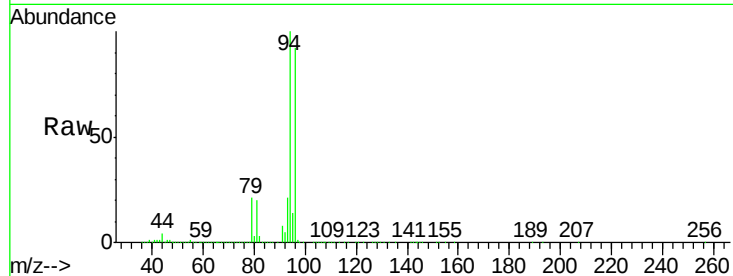
96 92.0 76.2 114.4

Manual Integrations

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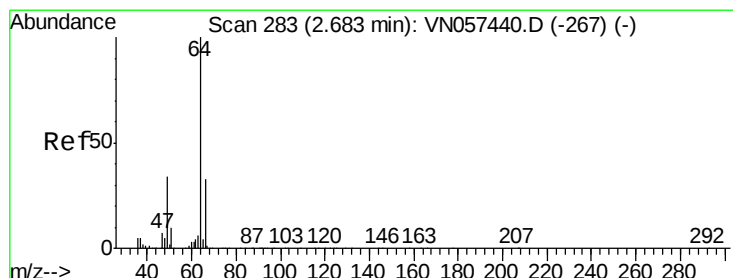
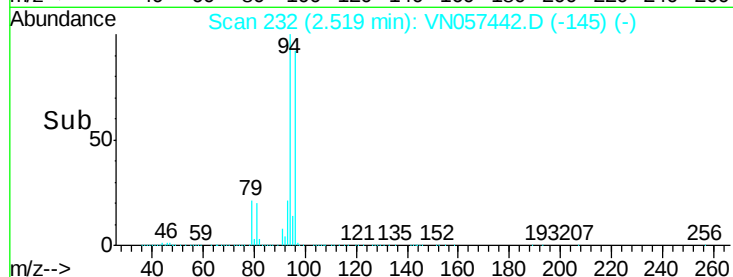
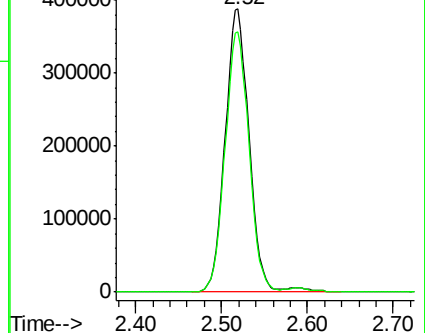
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 243.914 ug/l

RT: 2.67 min Scan# 279

Delta R.T. -0.01 min

Lab File: VN057442.D

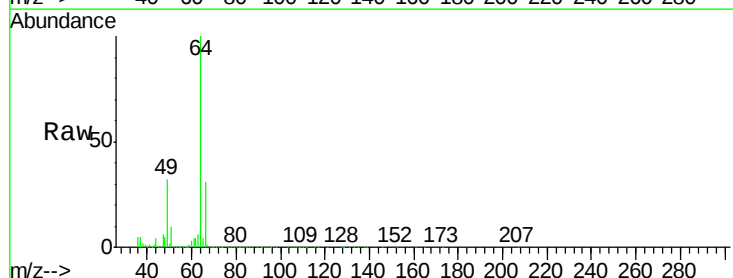
Acq: 22 Aug 2019 19:08

Tgt Ion: 64 Resp: 743856

Ion Ratio Lower Upper

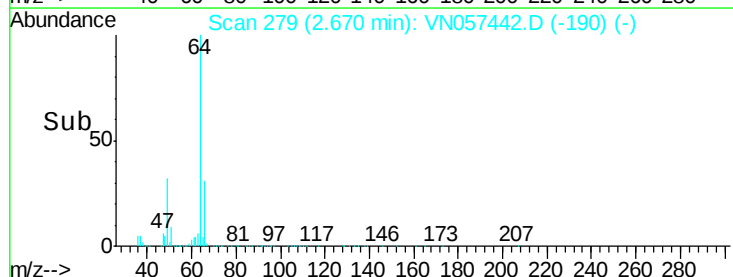
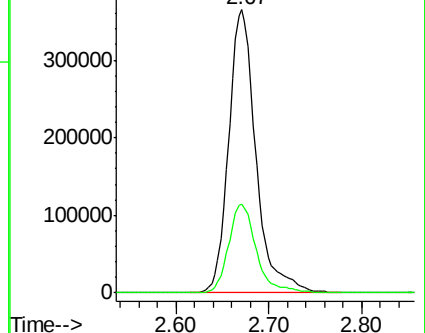
64 100

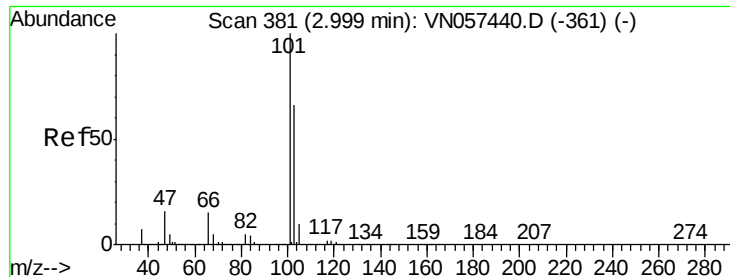
66 31.2 26.8 40.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

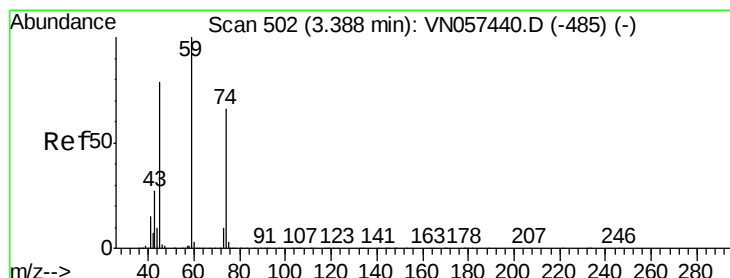
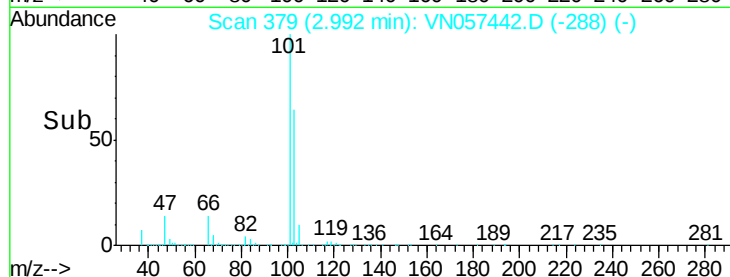
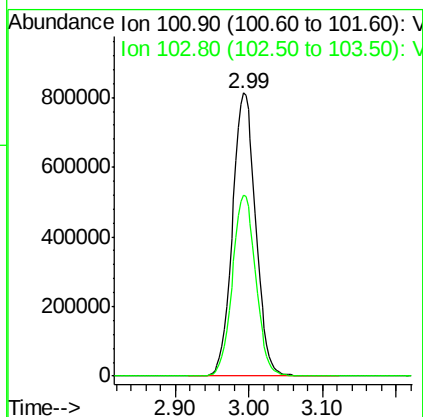
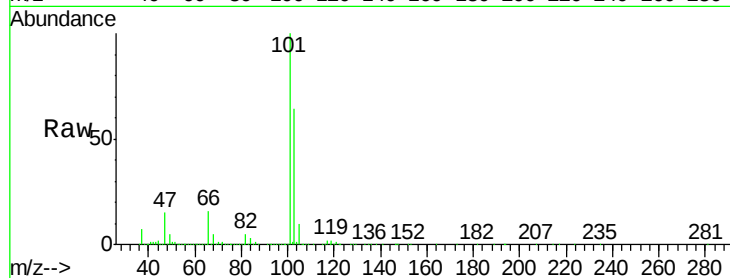
Trichlorofluoromethane
Concen: 251.744 ug/l
RT: 2.99 min Scan# 379
Delta R.T. -0.01 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
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ClientSampleId :
VSTDIC150

Tot Ion:101 Resp: 1776993
Ion Ratio Lower Upper
101 100
103 64.0 52.6 78.8

Manual Integrations
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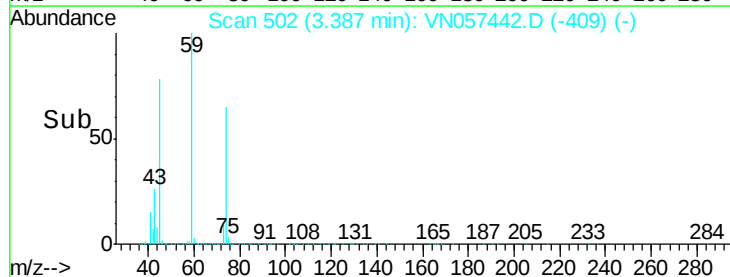
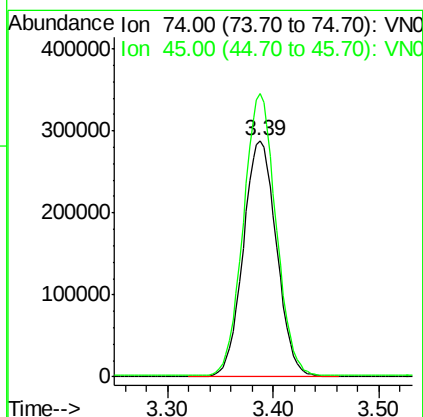
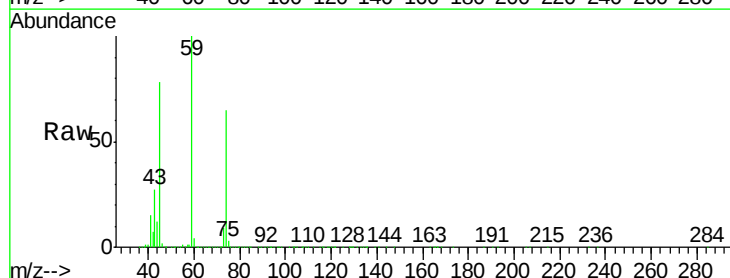
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8/23/2019 2:40:16 PM

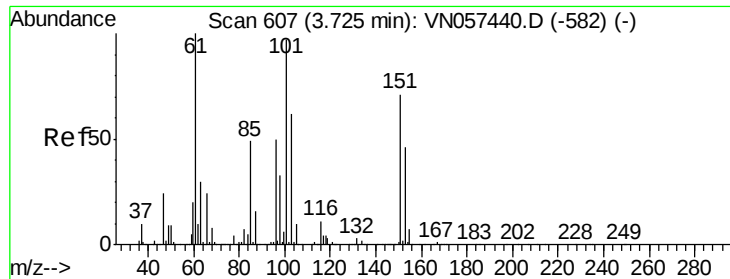


#8

Diethyl Ether
Concen: 240.327 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion: 74 Resp: 633601
Ion Ratio Lower Upper
74 100
45 117.0 57.9 173.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 234.765 ug/l

RT: 3.72 min Scan# 606

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

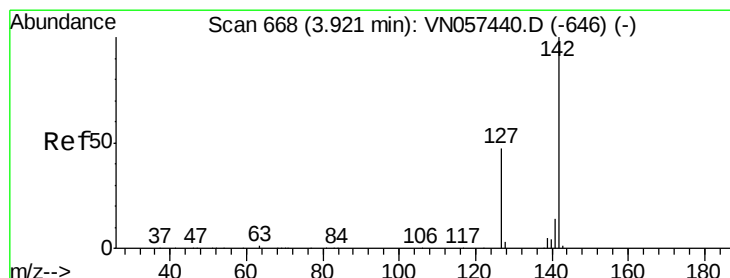
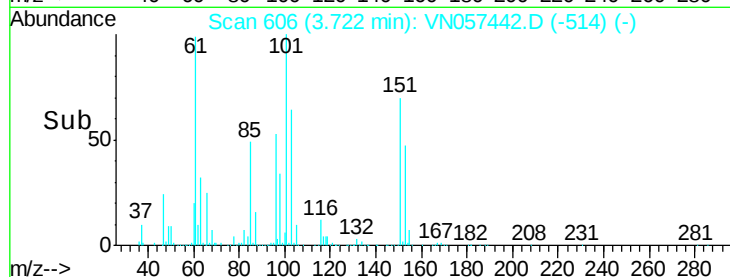
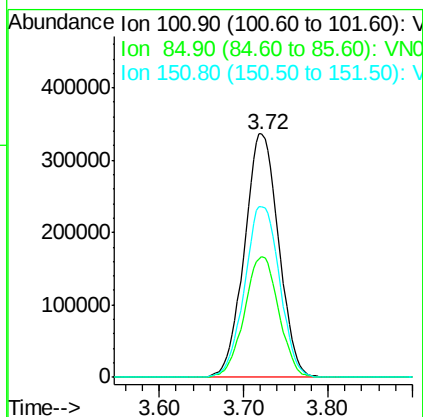
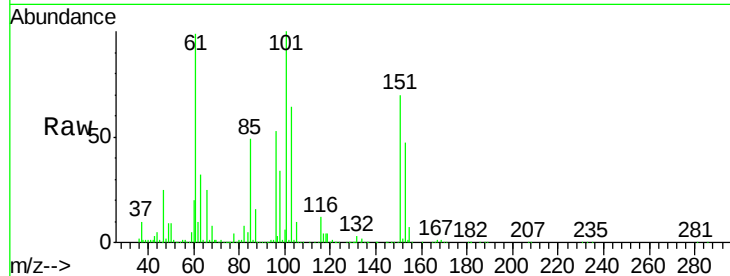
ClientSampleId :

VSTDIC150

Tot Ion:	101	Resp:	947005
Ion Ratio	Lower	Upper	
101	100		
85	50.0	40.0	60.0
151	71.9	57.0	85.6

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#10

Methyl Iodide

Concen: 145.191 ug/l

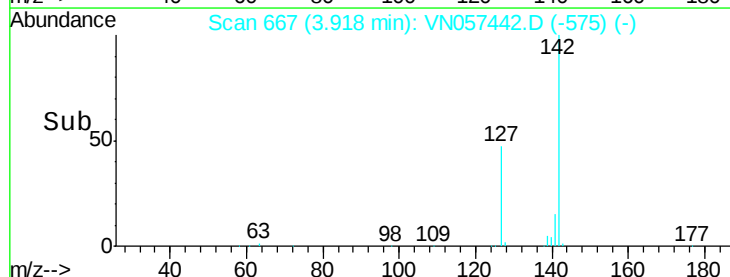
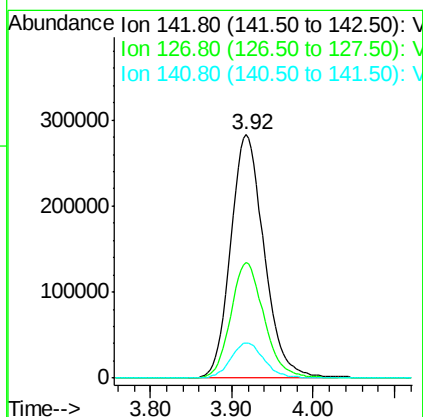
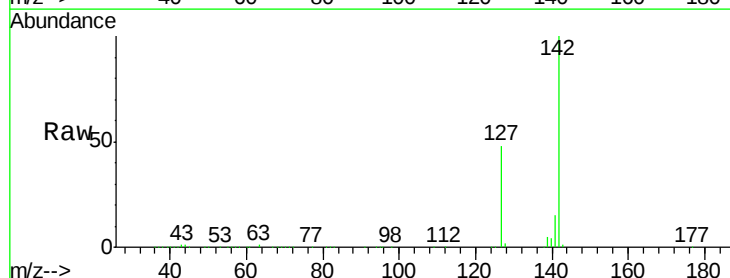
RT: 3.92 min Scan# 667

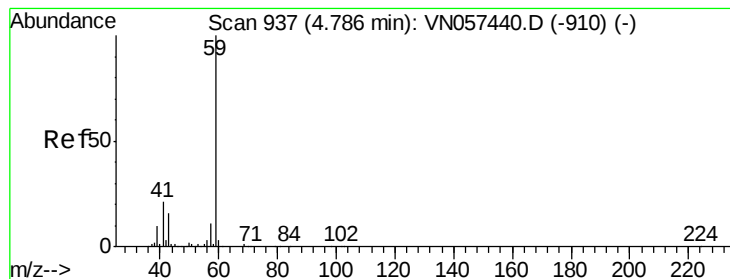
Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Tgt Ion:	142	Resp:	810177
Ion Ratio	Lower	Upper	
142	100		
127	47.4	37.8	56.8
141	14.5	11.9	17.9





#11

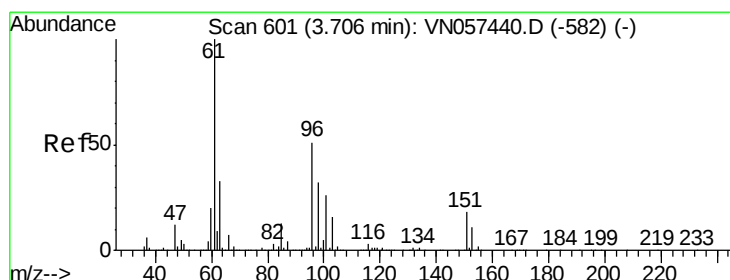
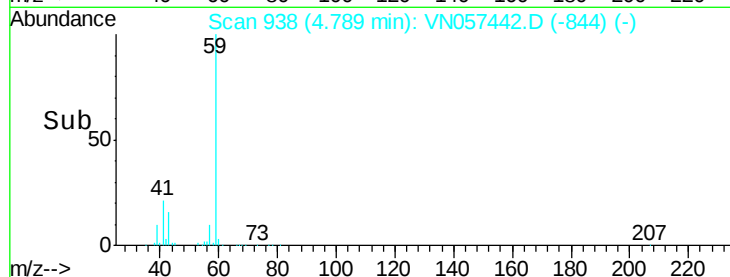
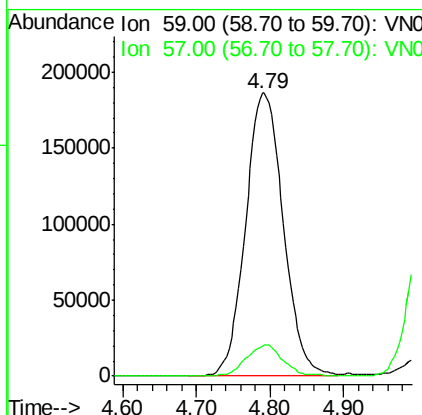
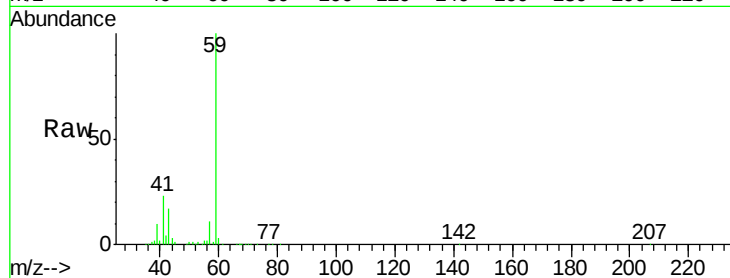
Tert butyl alcohol
 Concen: 996.997 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	9.1	13.7

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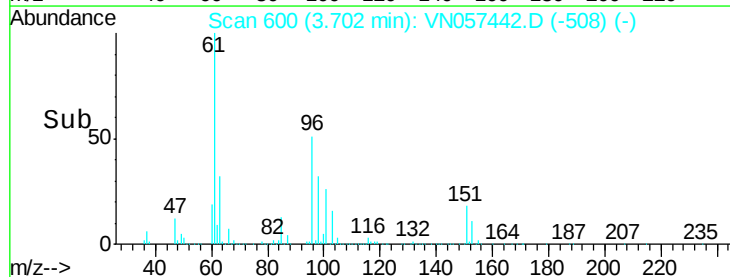
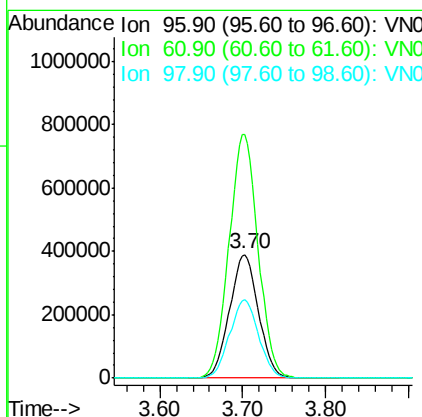
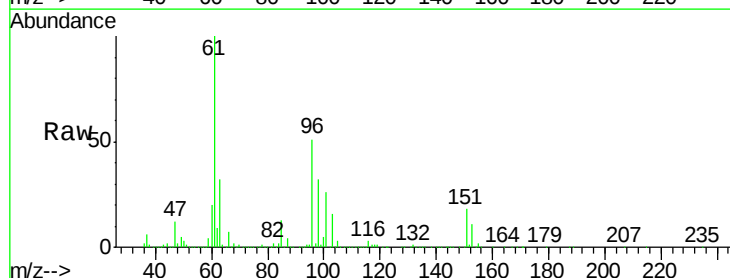
MMDadoda
 8/23/2019 2:40:16 PM

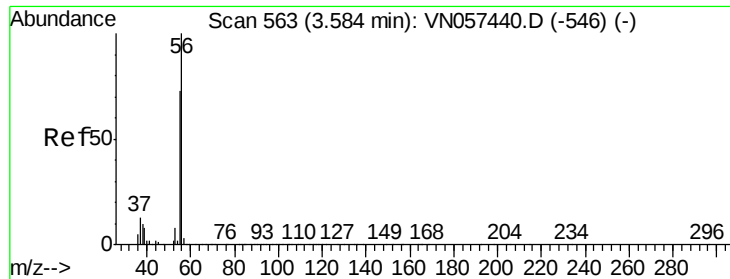


#12

1,1-Dichloroethene
 Concen: 234.941 ug/l
 RT: 3.70 min Scan# 600
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	196.6	155.3	232.9
98	63.1	50.2	75.2





#13

Acrolein

Concen: 1180.026 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 541042

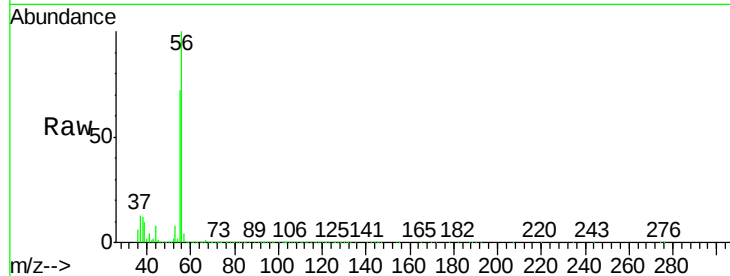
Ion Ratio Lower Upper

56 100

55 71.5 59.0 88.4

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

250000

200000

150000

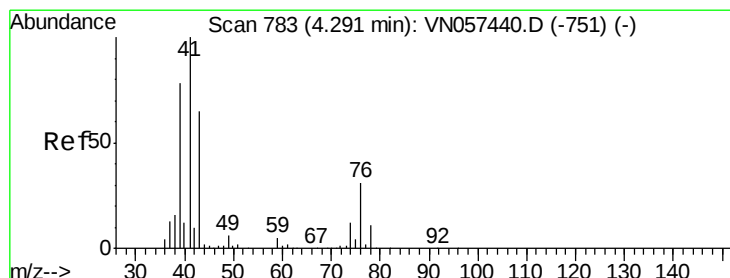
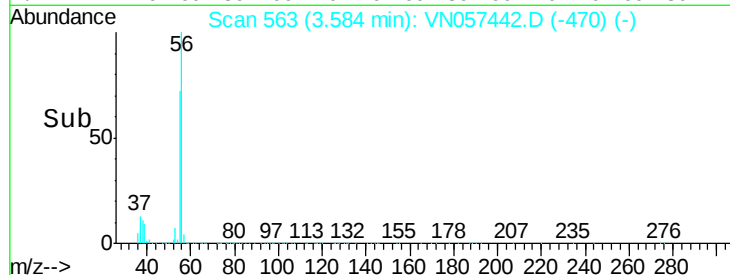
100000

50000

0

3.50 3.55 3.60 3.65

Time-->



#14

Allyl chloride

Concen: 221.312 ug/l

RT: 4.29 min Scan# 782

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

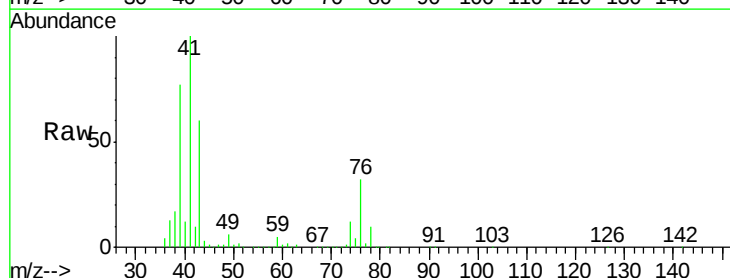
Tgt Ion: 41 Resp: 1380435

Ion Ratio Lower Upper

41 100

39 71.8 57.4 86.2

76 29.4 22.9 34.3



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

600000

500000

400000

300000

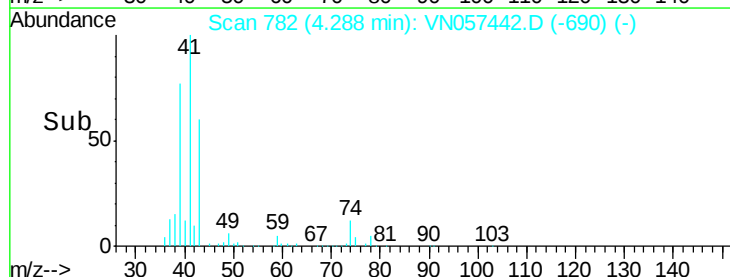
200000

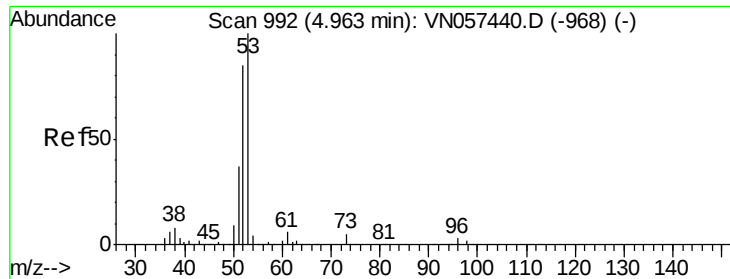
100000

0

4.10 4.20 4.30 4.40

Time-->





#15

Acrylonitrile

Concen: 990.921 ug/l

RT: 4.96 min Scan# 992

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 53 Resp: 1777363

Ion Ratio Lower Upper

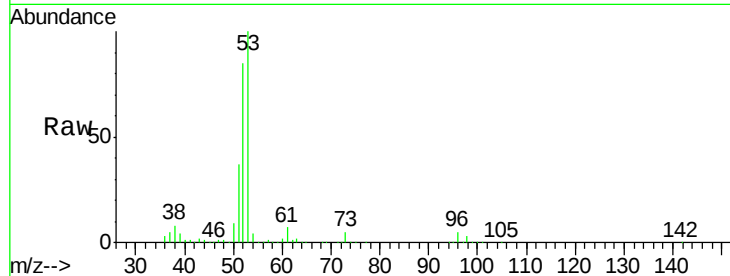
53 100

52 83.9 67.0 100.6

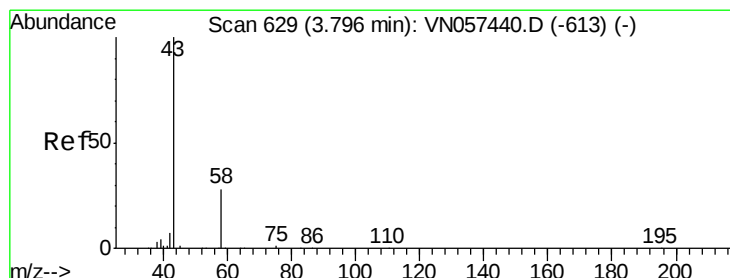
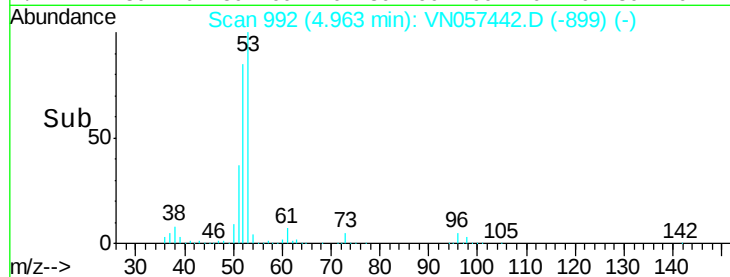
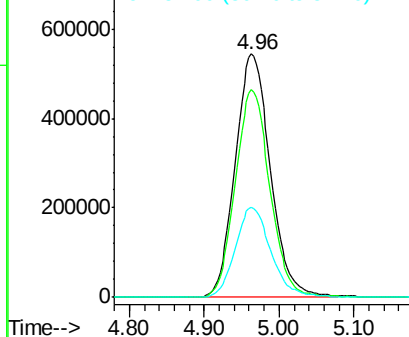
51 37.4 29.9 44.9

Manual Integrations
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Abundance Ion 53.00 (52.70 to 53.70): VNO
Ion 52.00 (51.70 to 52.70): VNO
Ion 51.00 (50.70 to 51.70): VNO



#16

Acetone

Concen: 950.813 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057442.D

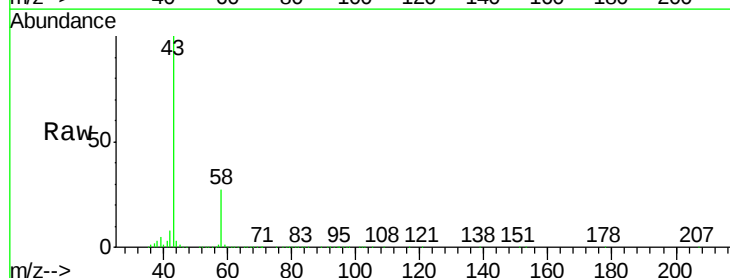
Acq: 22 Aug 2019 19:08

Tgt Ion: 43 Resp: 1547617

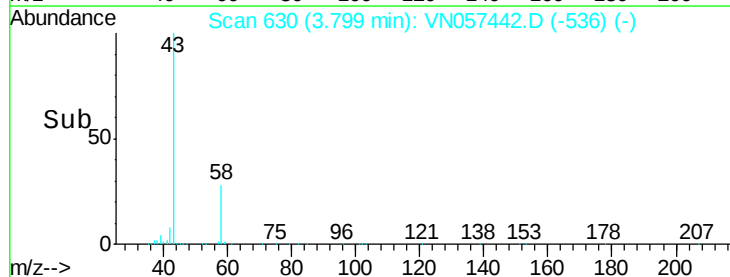
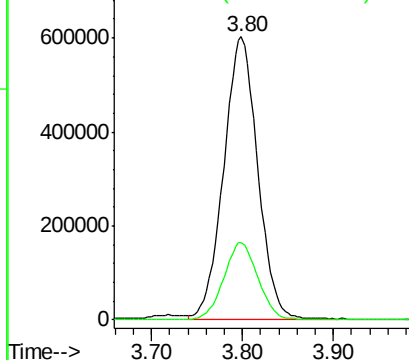
Ion Ratio Lower Upper

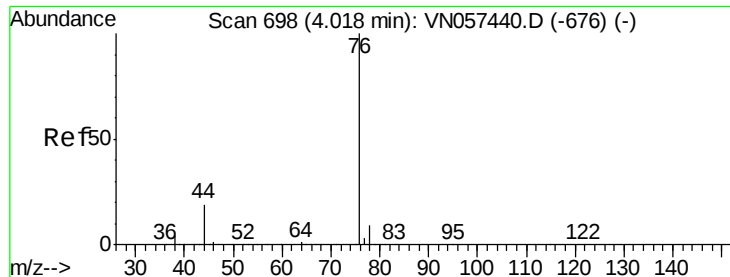
43 100

58 27.4 22.1 33.1



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





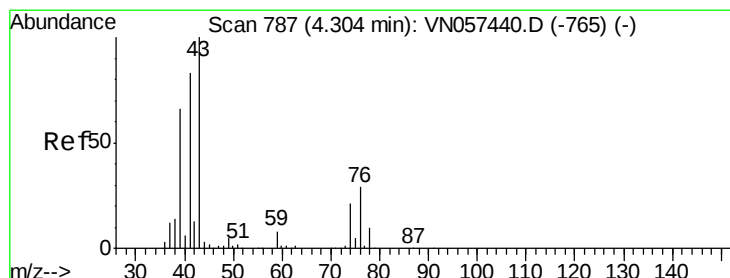
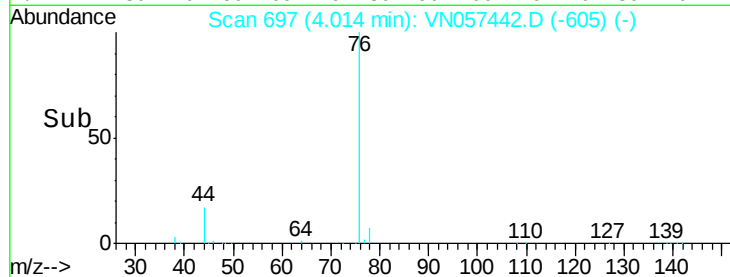
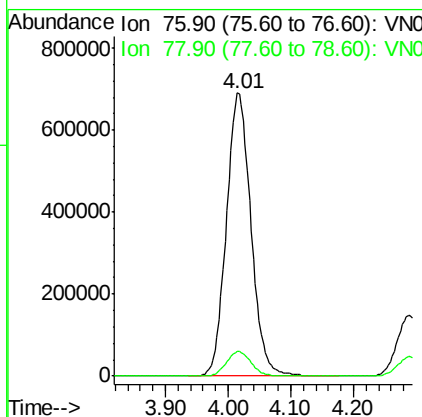
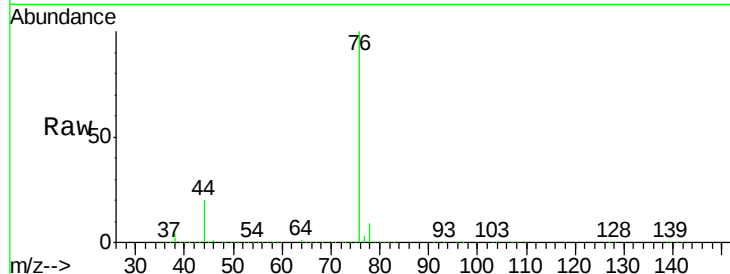
#17
Carbon Disulfide
Concen: 187.840 ug/l
RT: 4.01 min Scan# 697
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 76 Resp: 1874948
Ion Ratio Lower Upper
76 100
78 8.8 7.1 10.7

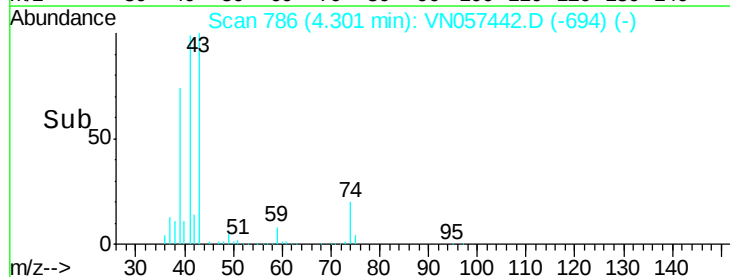
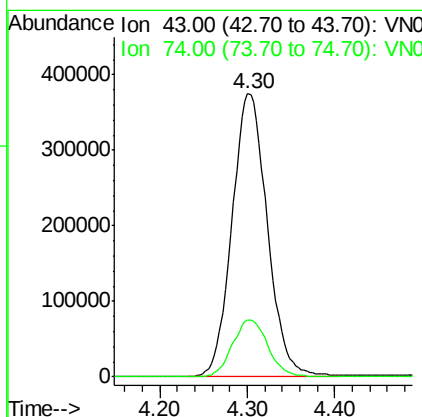
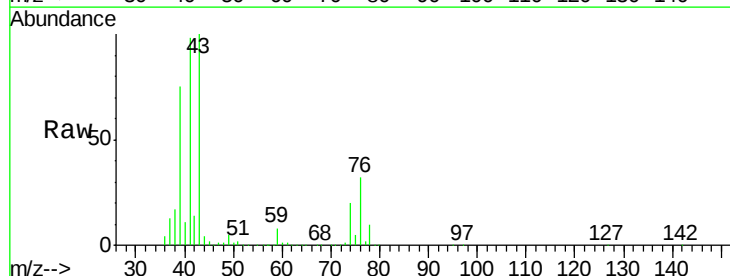
Manual Integrations
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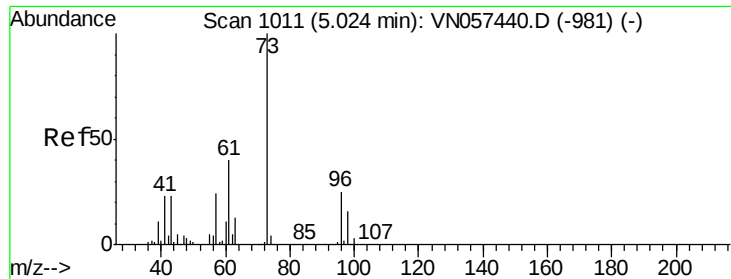
MMDadoda
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#18
Methyl Acetate
Concen: 158.130 ug/l
RT: 4.30 min Scan# 786
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion: 43 Resp: 1043029
Ion Ratio Lower Upper
43 100
74 20.3 15.9 23.9





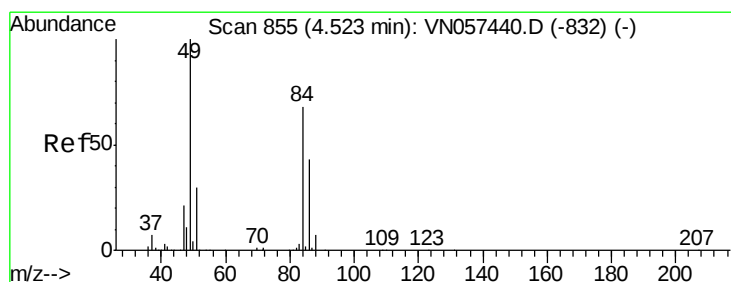
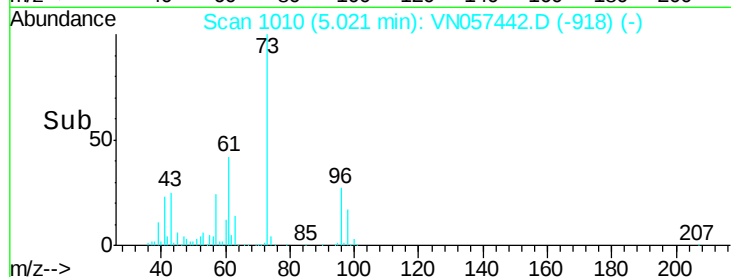
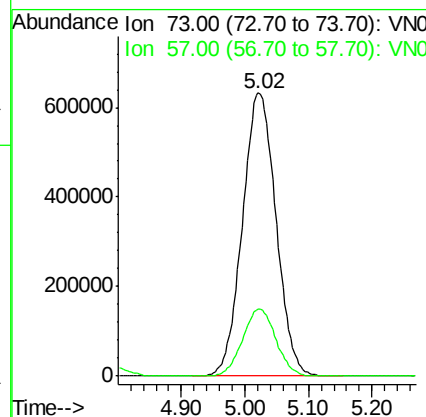
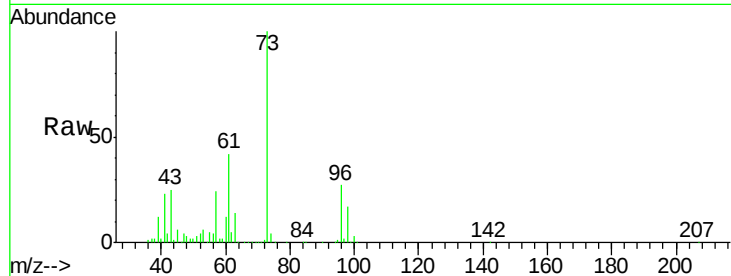
#19
Methvl tert-butvl Ether
Concen: 195.687 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 73 Resp: 2315375
Ion Ratio Lower Upper
73 100
57 23.6 19.1 28.7

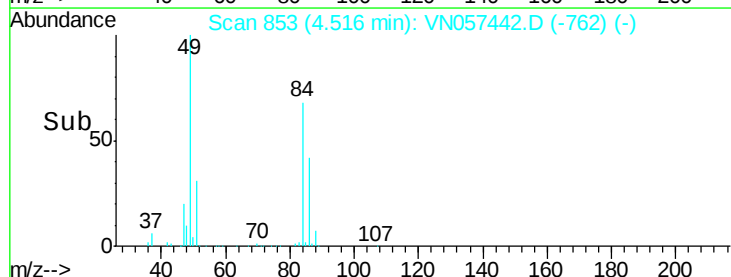
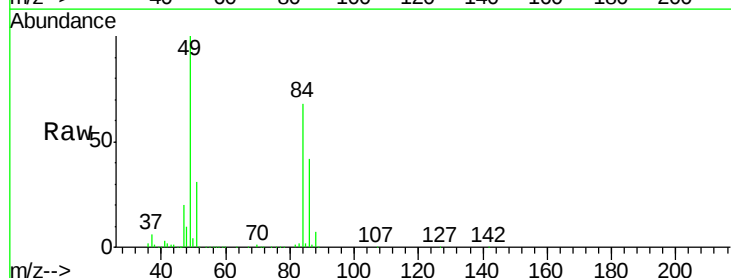
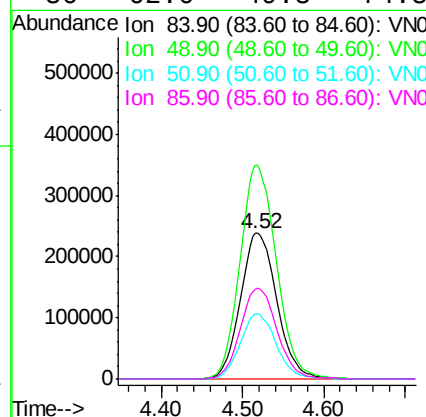
Manual Integrations
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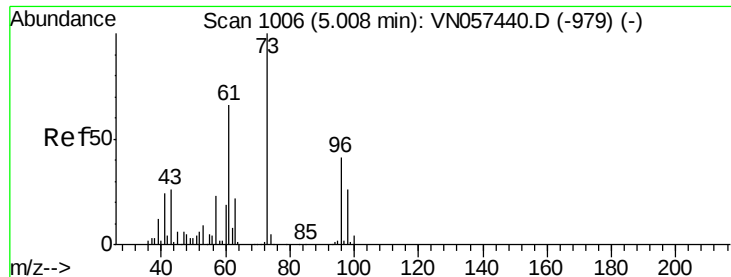
MMDadoda
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#20
Methylene Chloride
Concen: 167.719 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion: 84 Resp: 734168
Ion Ratio Lower Upper
84 100
49 147.0 117.0 175.4
51 45.0 35.5 53.3
86 62.0 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 175.142 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 96 Resp: 687949

Ion Ratio Lower Upper

96 100

61 156.1 127.9 191.9

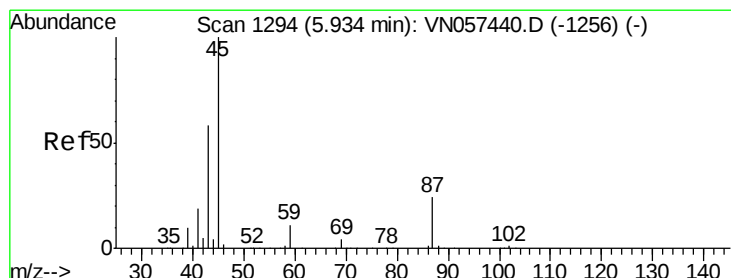
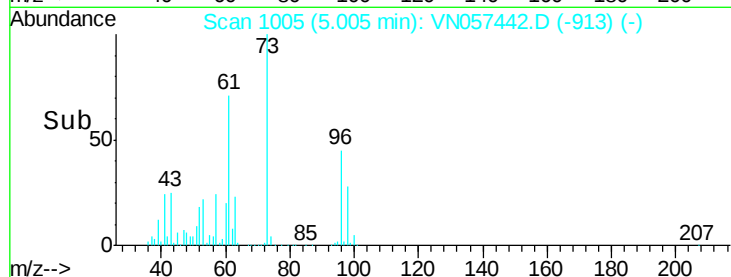
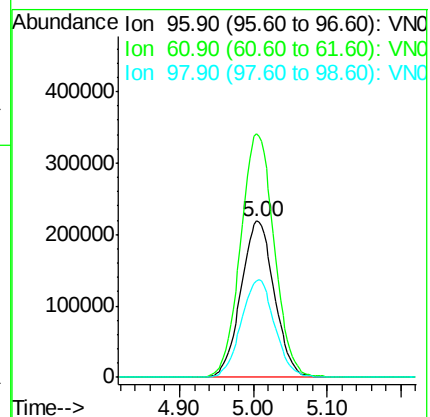
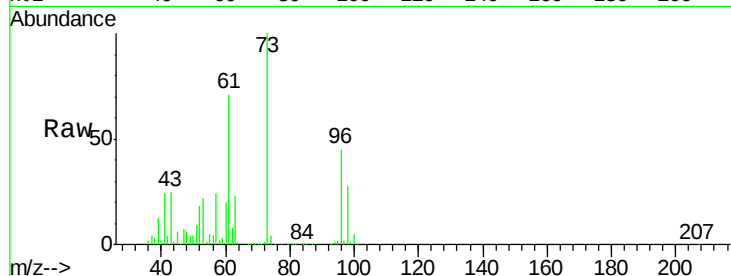
98 62.1 50.6 76.0

Manual Integrations

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#22

Diisopropyl ether

Concen: 228.455 ug/l

RT: 5.93 min Scan# 1293

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Tgt Ion: 45 Resp: 2848463

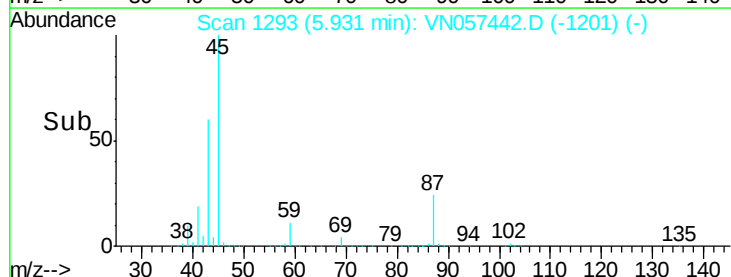
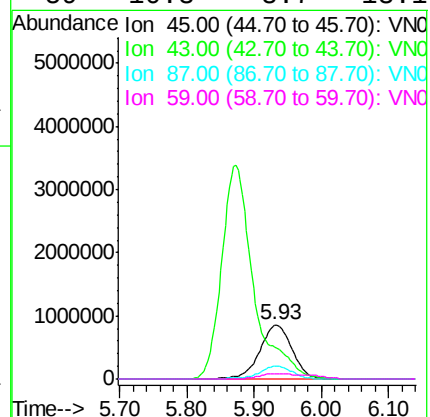
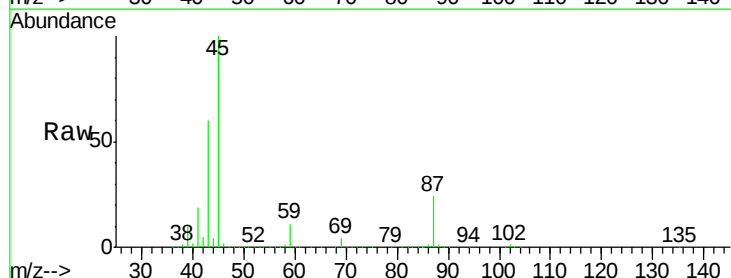
Ion Ratio Lower Upper

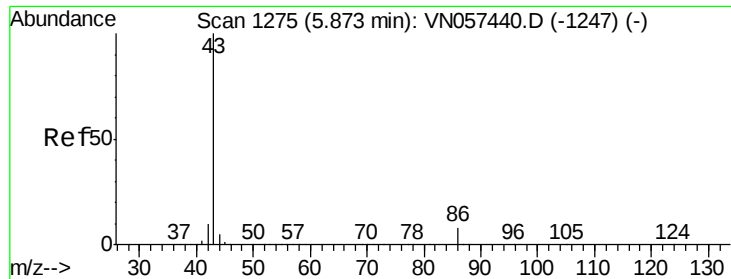
45 100

43 59.1 46.9 70.3

87 23.8 19.3 28.9

59 10.3 8.7 13.1





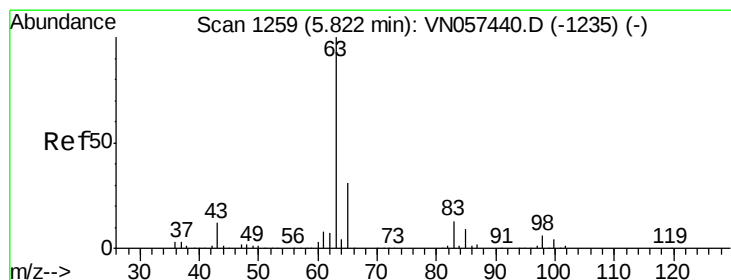
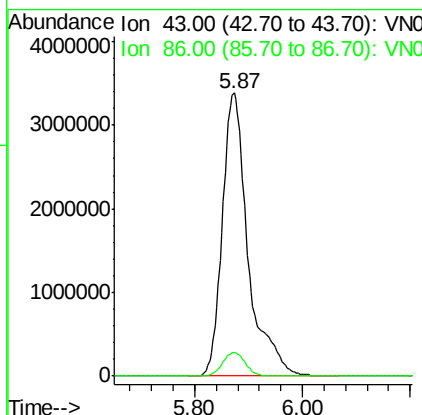
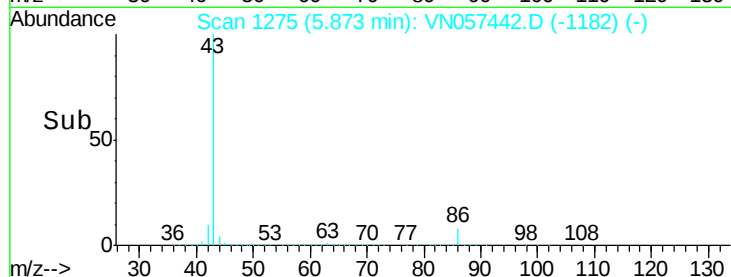
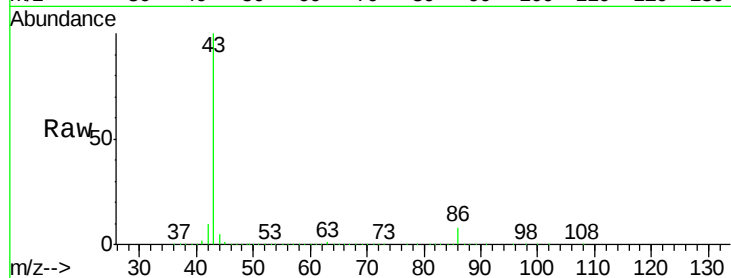
#23
 Vinyl Acetate
 Concen: 1129.540 ug/l
 RT: 5.87 min Scan# 1275
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 43 Resp: 11213109
 Ion Ratio Lower Upper
 43 100
 86 8.4 6.7 10.1

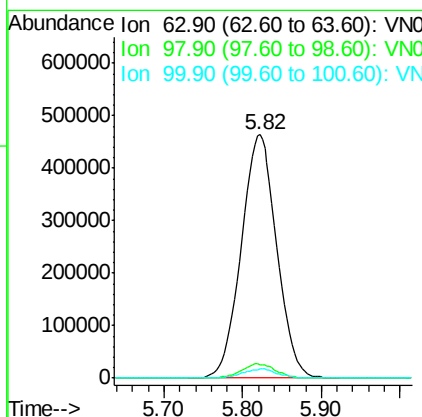
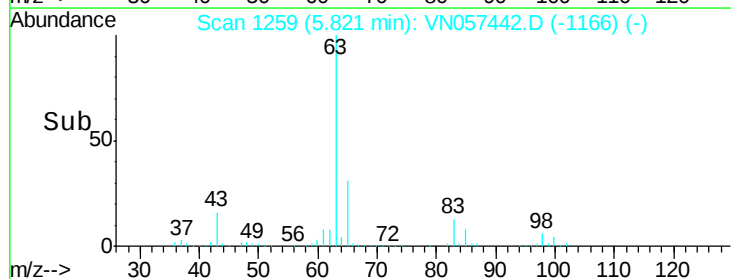
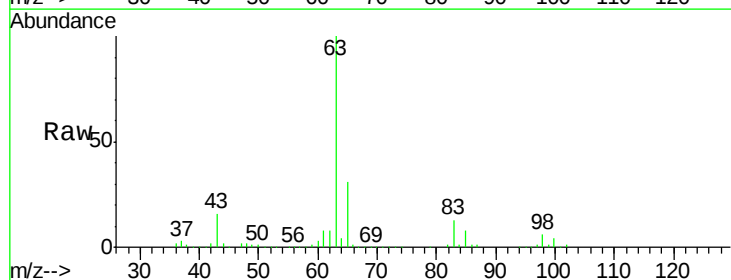
Manual Integrations
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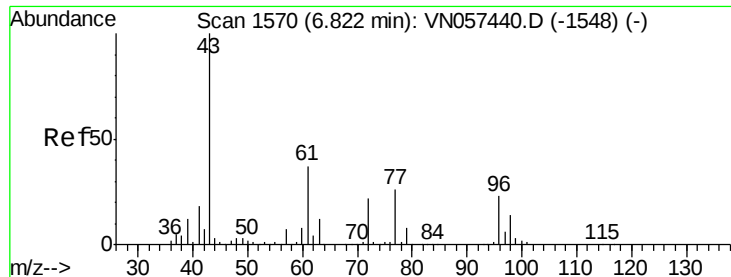
MMDadoda
 8/23/2019 2:40:16 PM



#24
 1,1-Dichloroethane
 Concen: 199.335 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Tgt Ion: 63 Resp: 1471073
 Ion Ratio Lower Upper
 63 100
 98 5.7 2.9 8.6
 100 3.7 2.1 6.3





#25

2-Butanone

Concen: 1062.405 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 43 Resp: 2539448

Ion Ratio Lower Upper

43 100

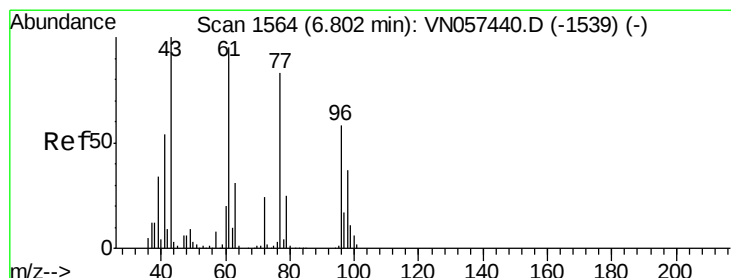
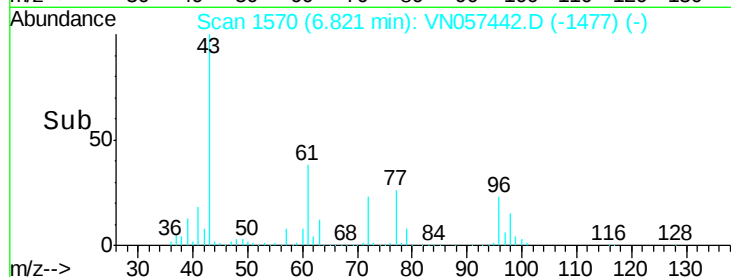
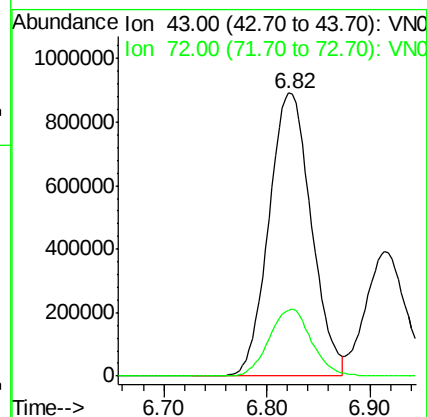
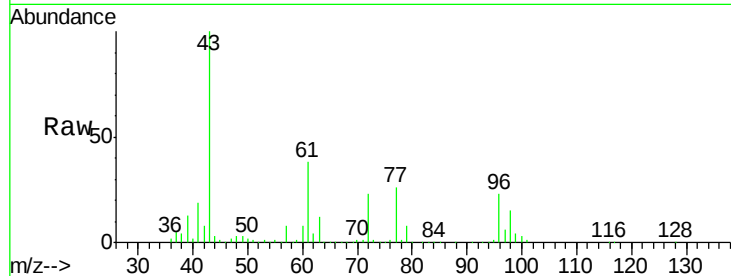
72 23.5 17.8 26.8

Manual Integrations

APPROVED

MMDadoda

8/23/2019 2:40:16 PM



#26

2,2-Dichloropropane

Concen: 203.135 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN057442.D

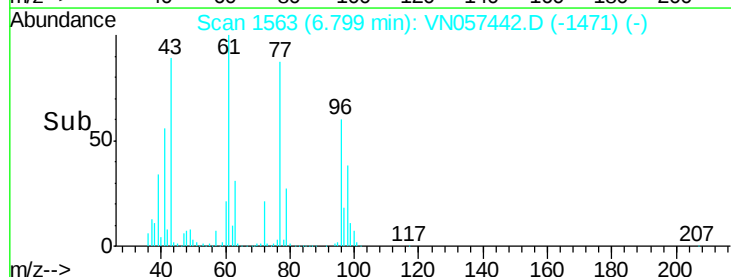
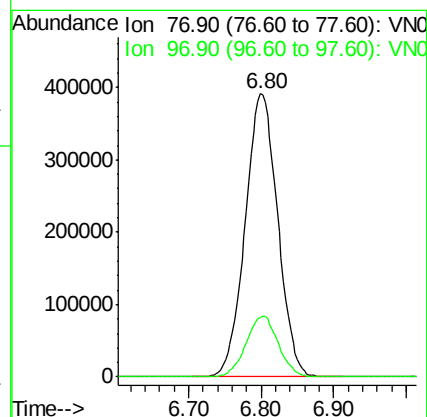
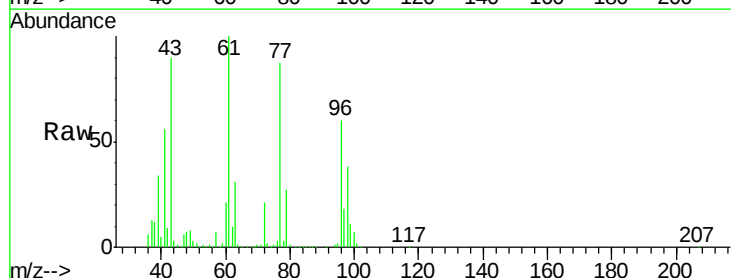
Acq: 22 Aug 2019 19:08

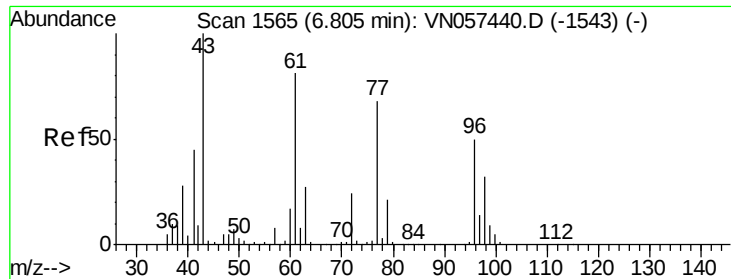
Tgt Ion: 77 Resp: 1221641

Ion Ratio Lower Upper

77 100

97 21.3 10.8 32.3





#27

cis-1,2-Dichloroethene

Concen: 177.143 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

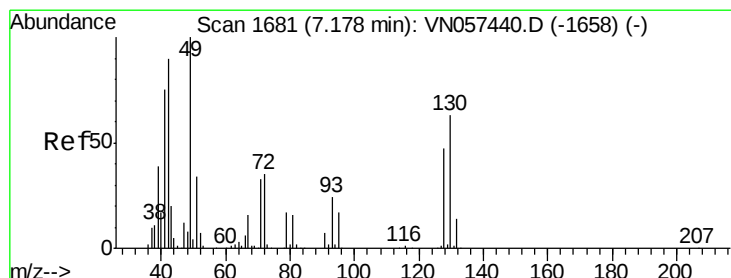
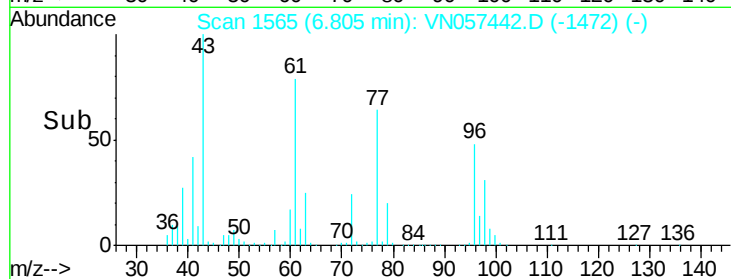
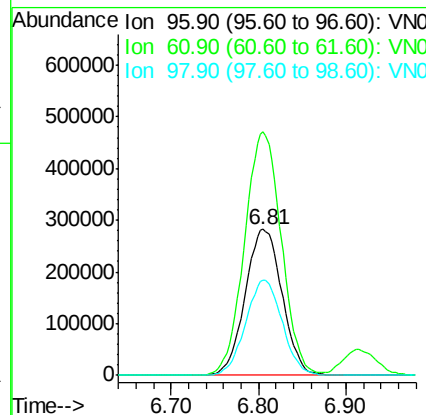
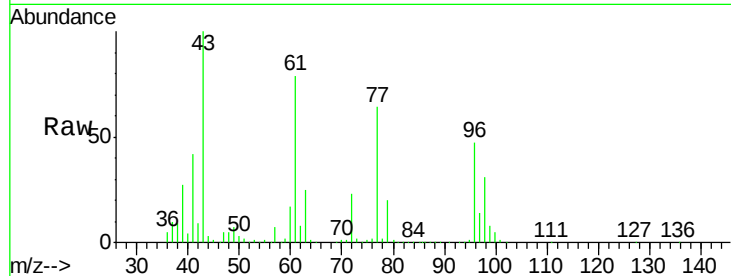
ClientSampleId :

VSTDIC150

Tot Ion:	96	Resp:	826405
Ion Ratio	Lower	Upper	
96	100		
61	165.5	0.0	334.8
98	64.5	0.0	127.4

Manual Integrations
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#28

Bromochloromethane

Concen: 230.502 ug/l

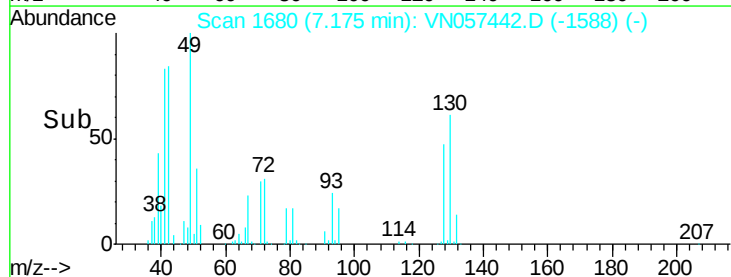
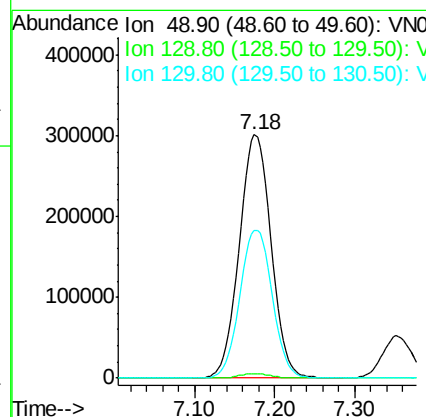
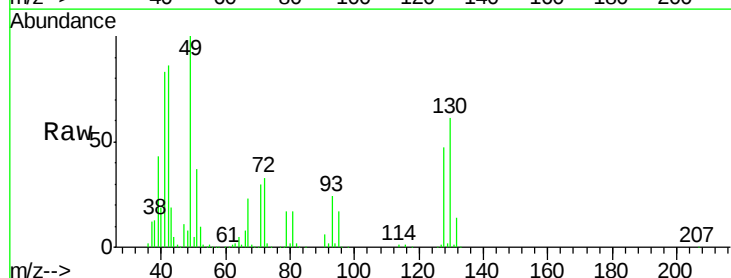
RT: 7.18 min Scan# 1680

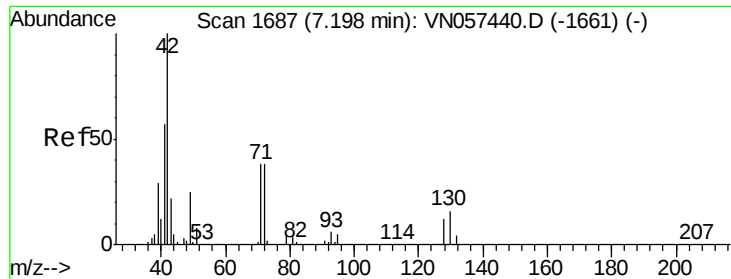
Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Tgt Ion:	49	Resp:	809791
Ion Ratio	Lower	Upper	
49	100		
129	1.8	0.0	3.6
130	61.9	48.6	72.8





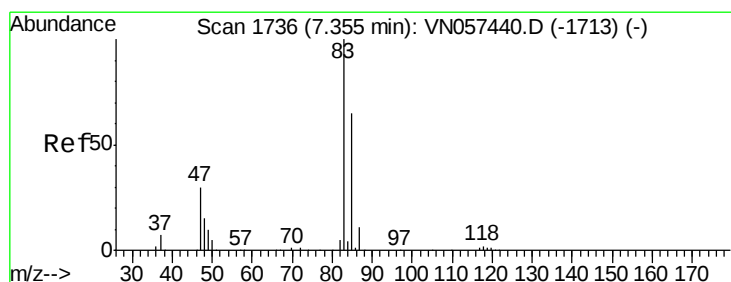
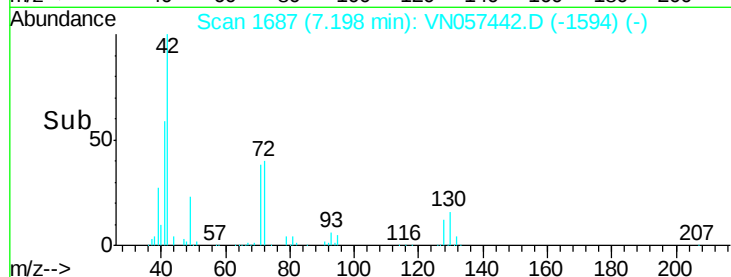
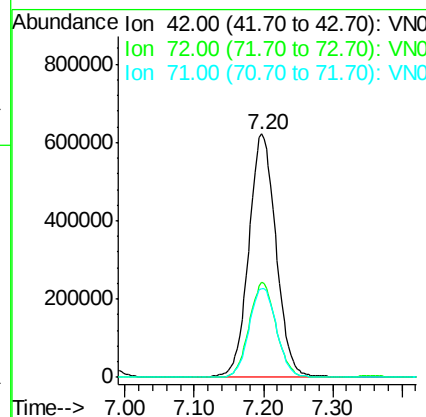
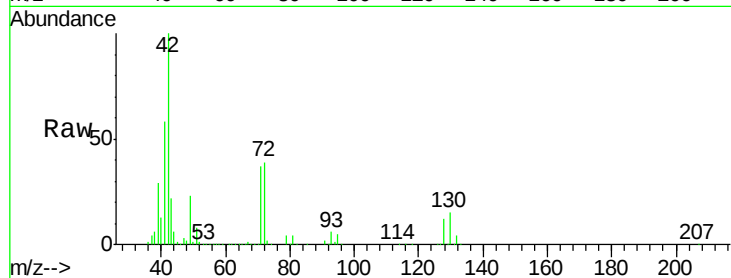
#29
Tetrahydrofuran
Concen: 1104.882 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 42 Resp: 1692460
Ion Ratio Lower Upper
42 100
72 38.3 30.1 45.1
71 37.0 28.8 43.2

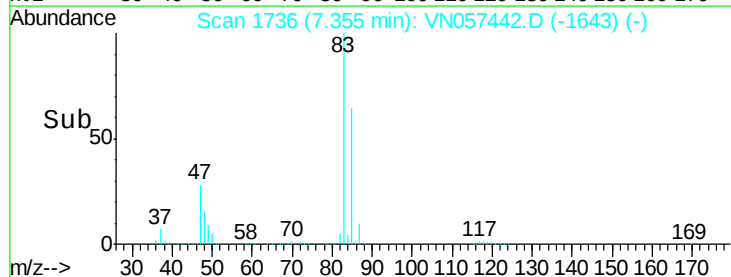
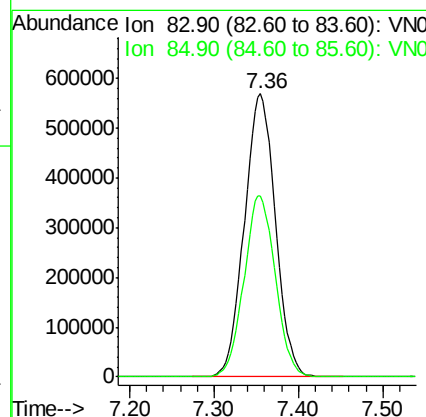
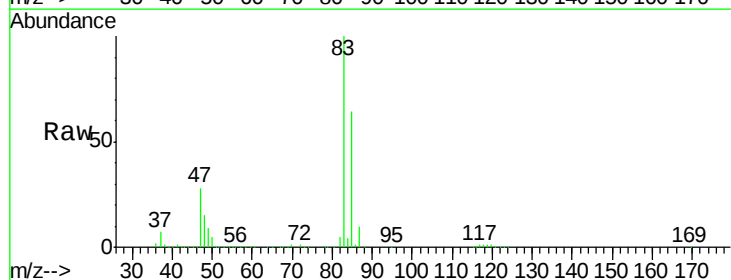
Manual Integrations
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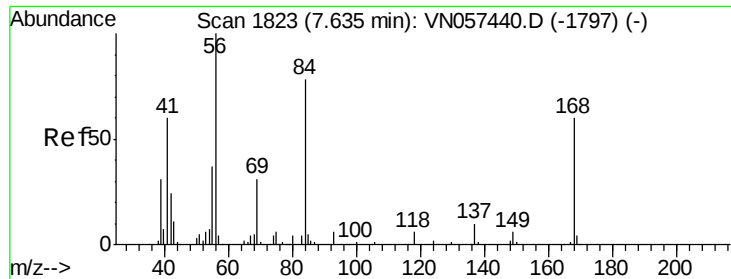
MMDadoda
8/23/2019 2:40:16 PM



#30
Chloroform
Concen: 190.718 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion: 83 Resp: 1456851
Ion Ratio Lower Upper
83 100
85 63.9 51.9 77.9





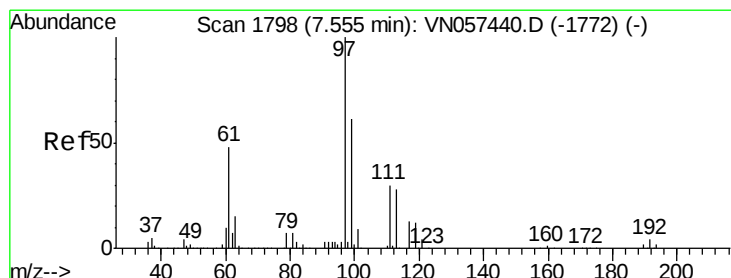
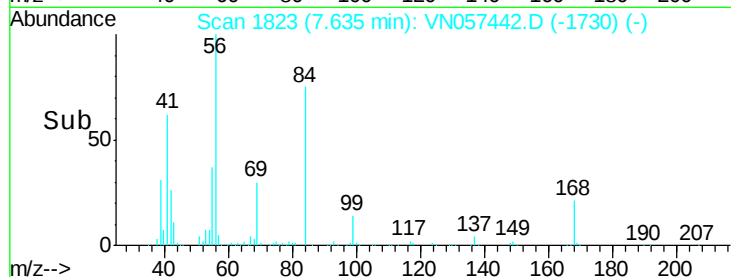
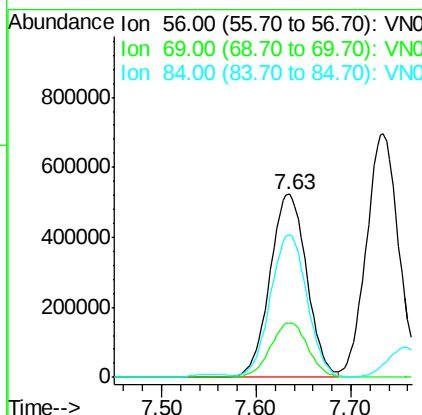
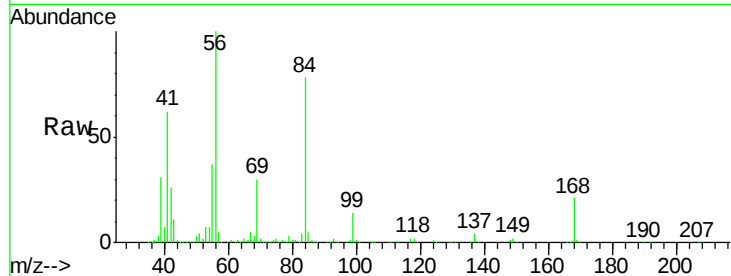
#31
Cyclohexane
Concen: 209.670 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.8	25.0	37.6
84	77.2	62.5	93.7

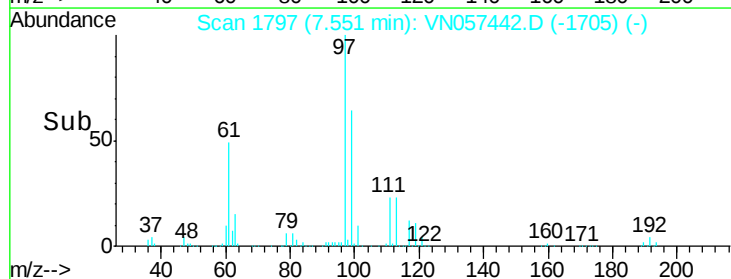
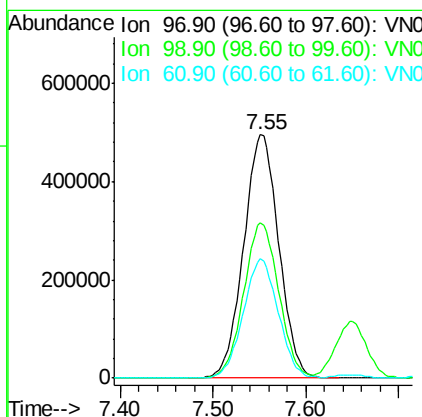
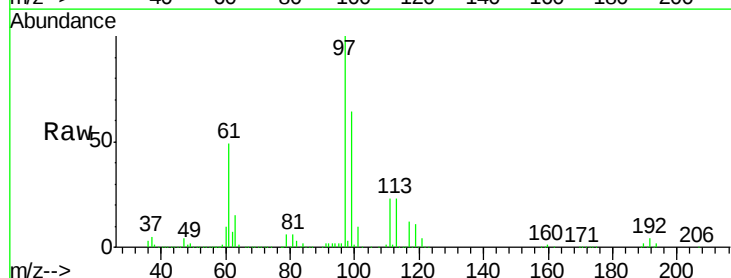
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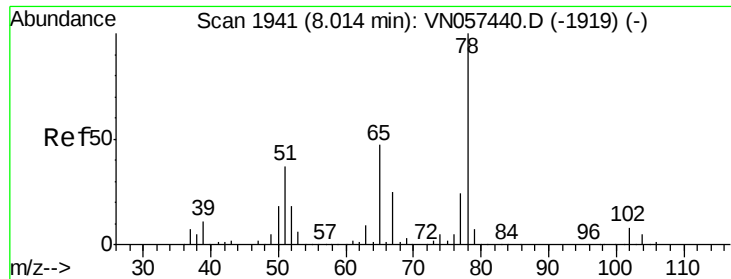
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 202.566 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	48.8	39.8	59.6





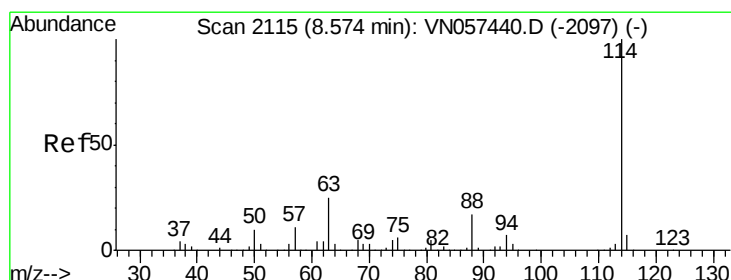
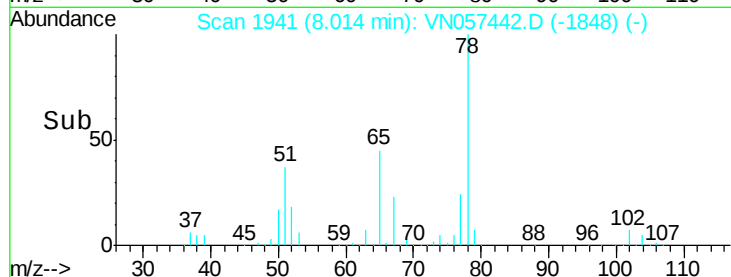
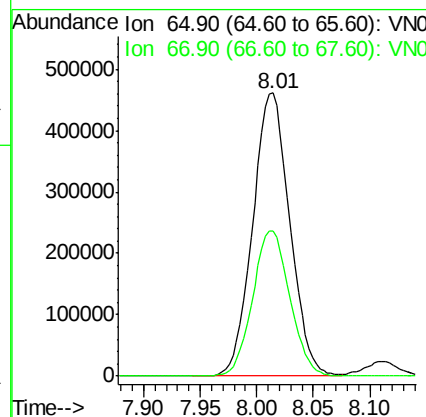
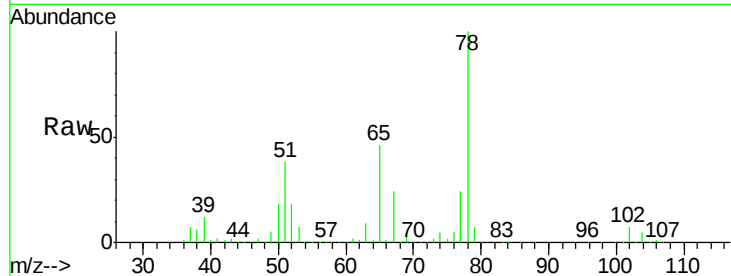
#33
 1,2-Dichloroethane-d4
 Concen: 211.860 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion: 65 Resp: 1050058
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.8

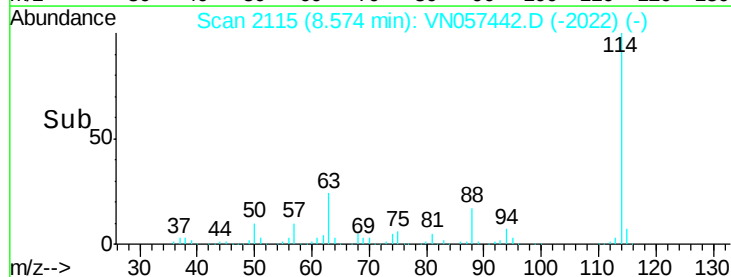
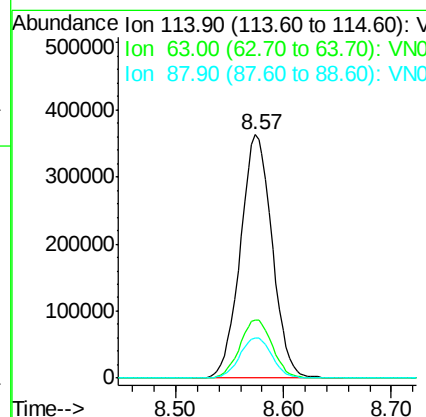
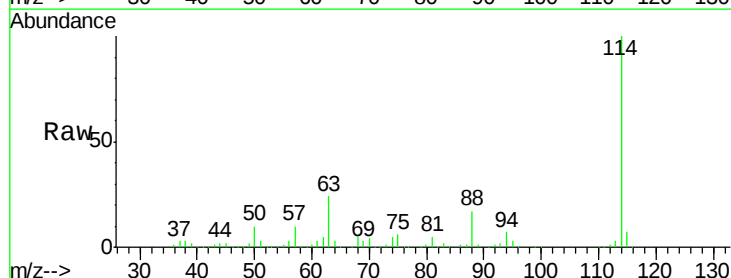
Manual Integrations
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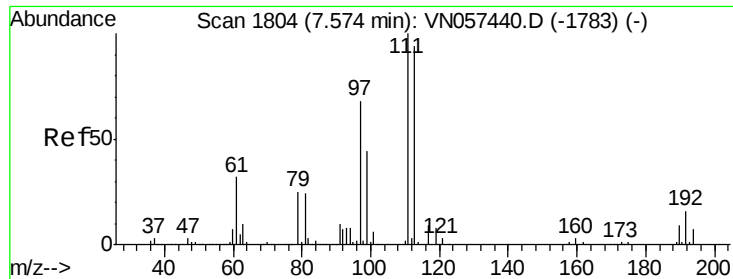
MMDadoda
 8/23/2019 2:40:16 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Tgt Ion: 114 Resp: 744808
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 50.2
 88 16.6 0.0 34.6





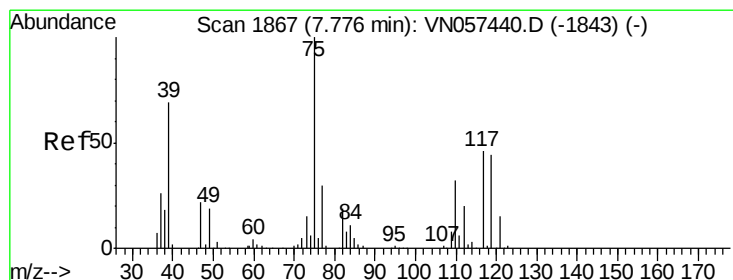
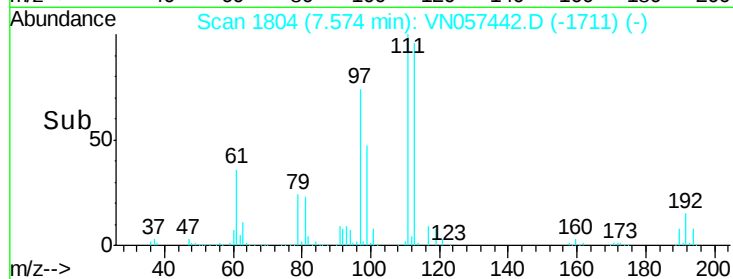
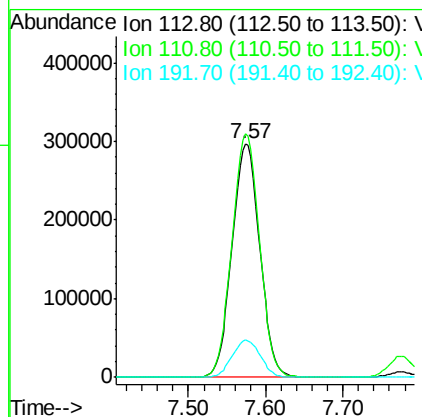
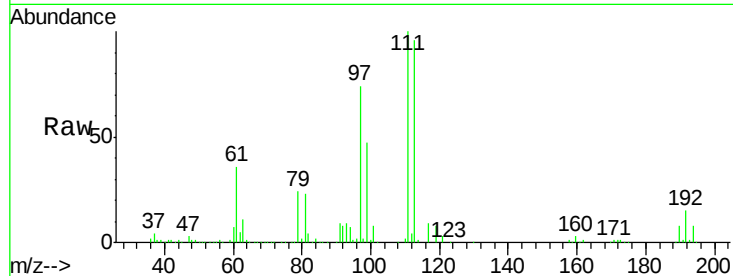
#35
 Dibromofluoromethane
 Concen: 149.784 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
113	100	737572		
111	103.3	83.8	125.6	
192	16.3	13.5	20.3	

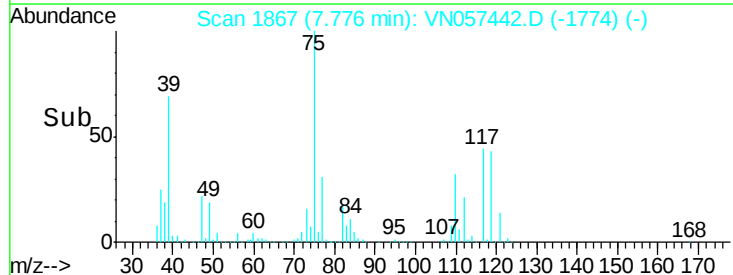
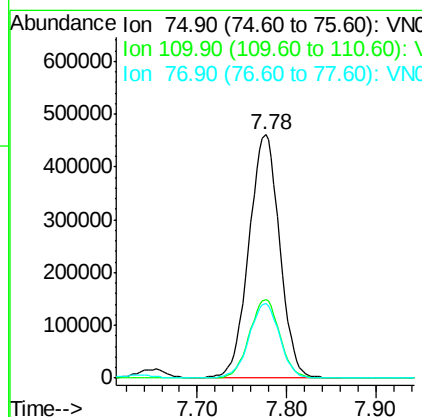
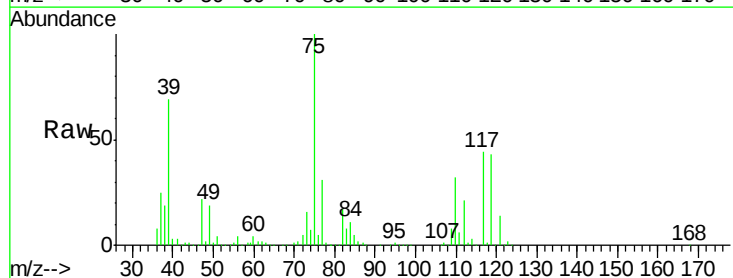
Manual Integrations
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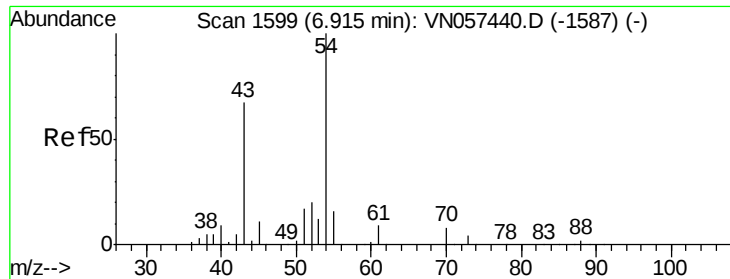
MMDadoda
 8/23/2019 2:40:16 PM



#36
 1,1-Dichloropropene
 Concen: 164.463 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1102575		
110	31.8	16.1	48.3	
77	30.8	24.8	37.2	





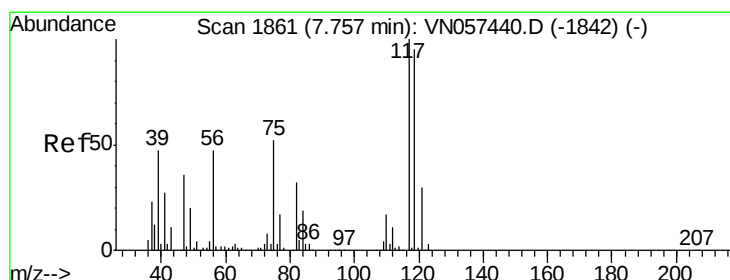
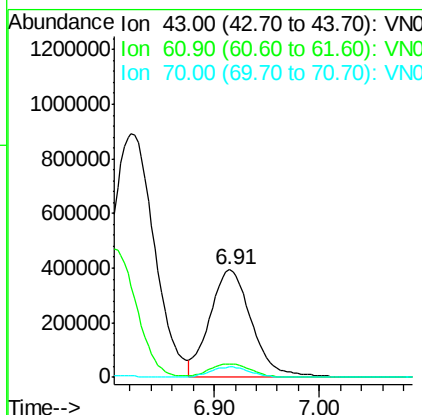
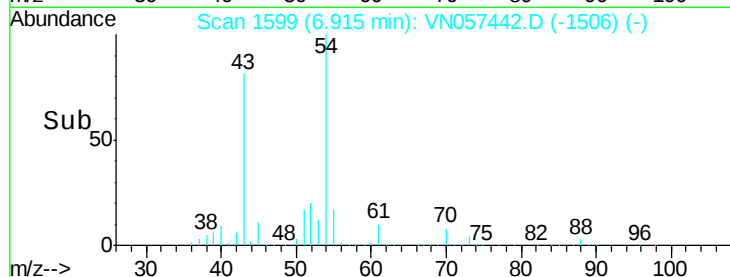
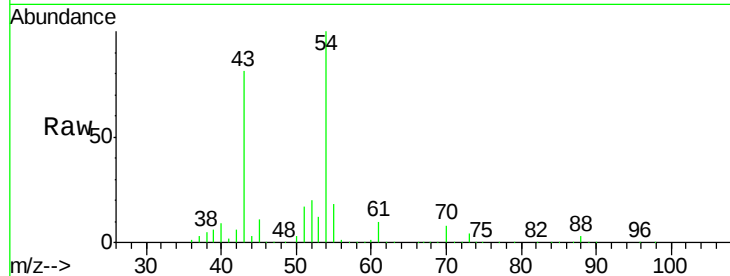
#37
Ethyl Acetate
Concen: 189.371 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 43 Resp: 1068110
Ion Ratio Lower Upper
43 100
61 12.8 9.9 14.9
70 9.3 7.0 10.6

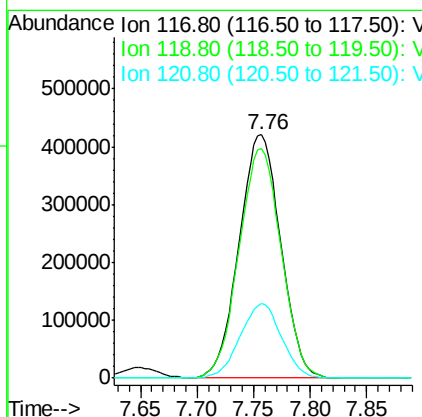
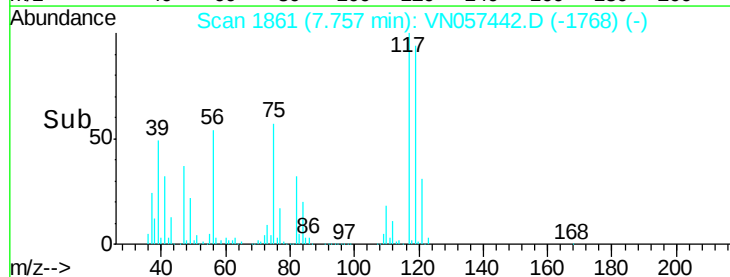
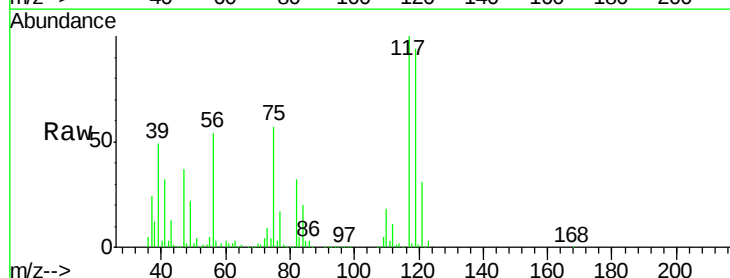
Manual Integrations
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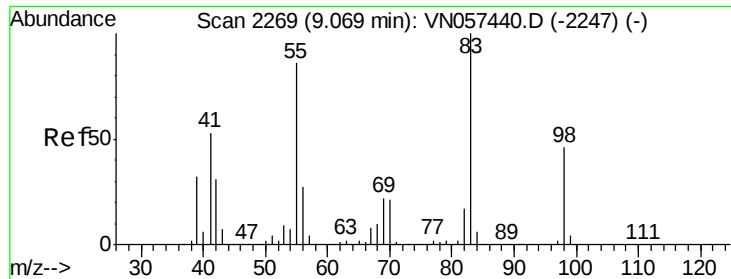
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#38
Carbon Tetrachloride
Concen: 155.650 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion: 117 Resp: 1073797
Ion Ratio Lower Upper
117 100
119 94.5 76.2 114.4
121 30.6 23.8 35.6





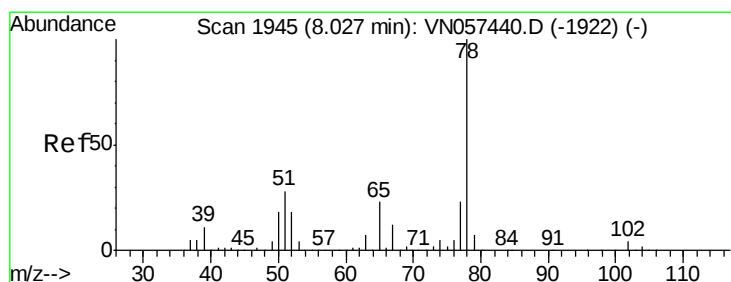
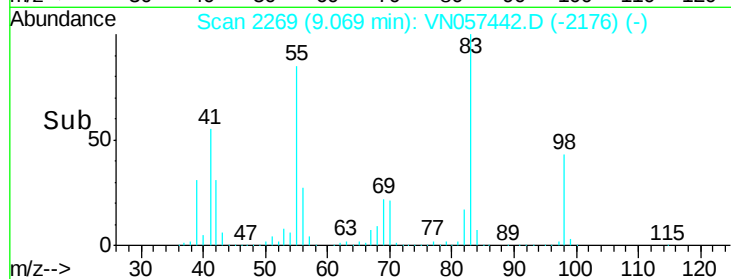
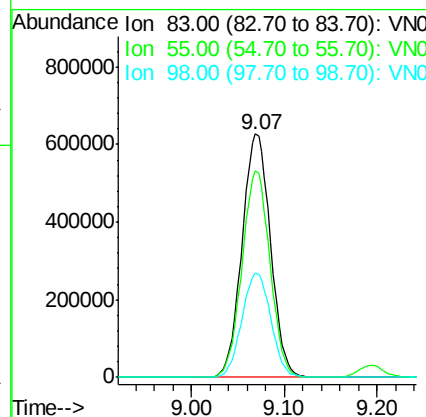
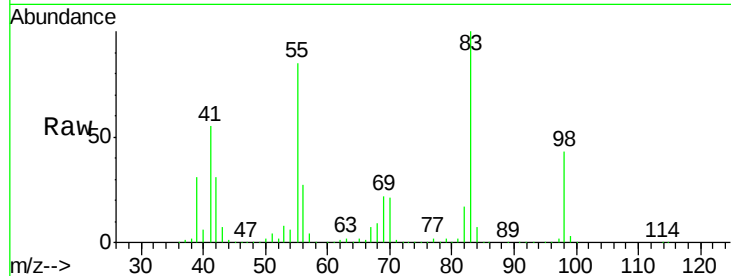
#39
Methvlcvclohexane
Concen: 169.463 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 83 Resp: 1333073
Ion Ratio Lower Upper
83 100
55 84.7 68.6 102.8
98 42.7 36.6 54.8

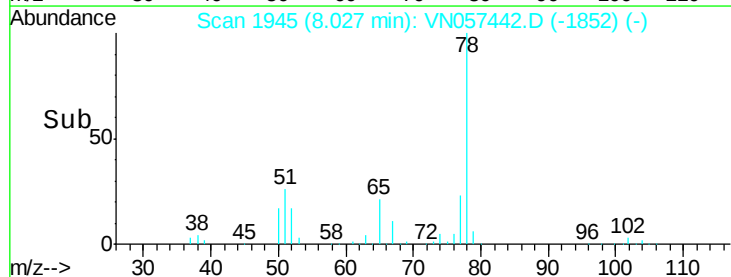
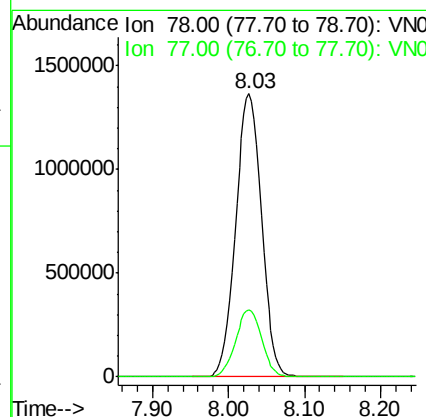
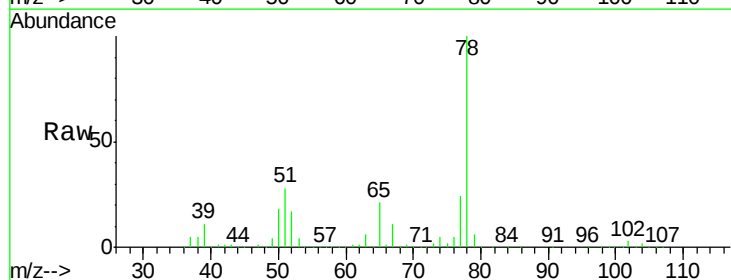
Manual Integrations
APPROVED

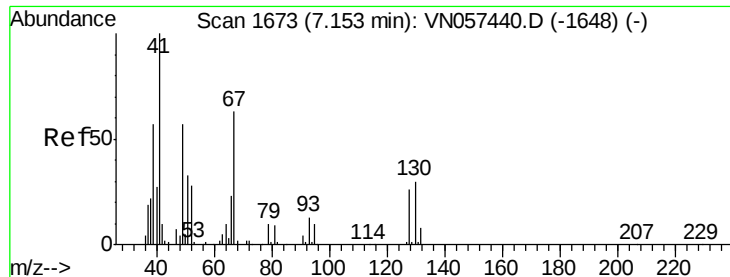
MMDadoda
8/23/2019 2:40:16 PM



#40
Benzene
Concen: 157.719 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion: 78 Resp: 3215461
Ion Ratio Lower Upper
78 100
77 23.7 18.5 27.7





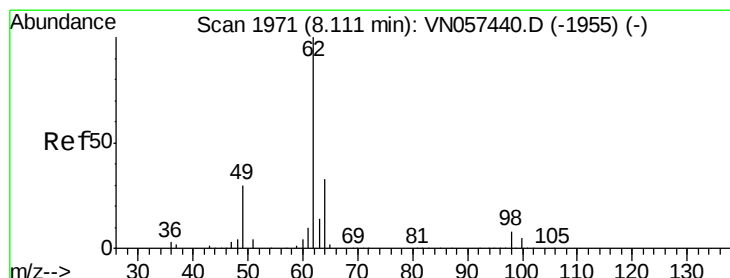
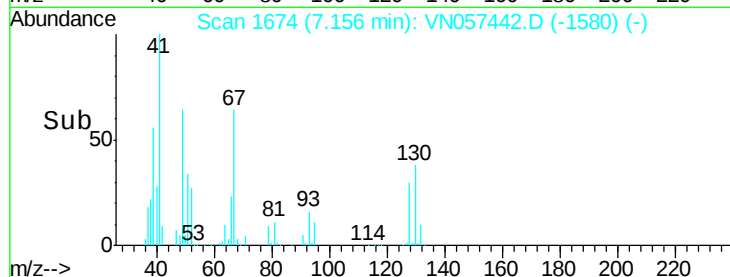
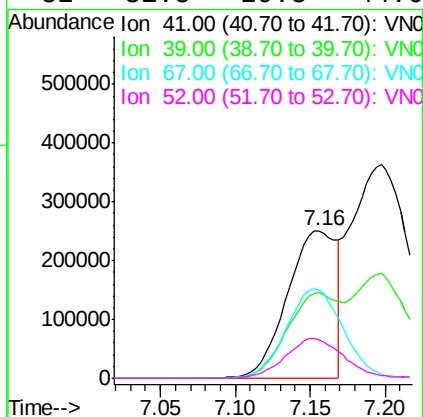
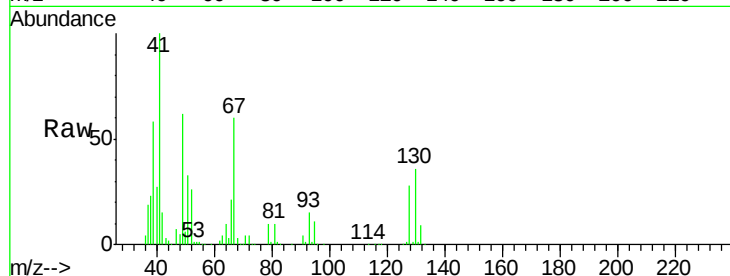
#41
Methacrylonitrile
Concen: 220.130 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	61.8	53.6	80.4	
67	70.8	65.4	98.2	
52	31.8	29.8	44.6	

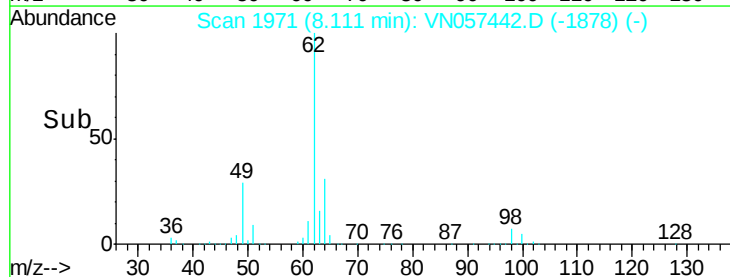
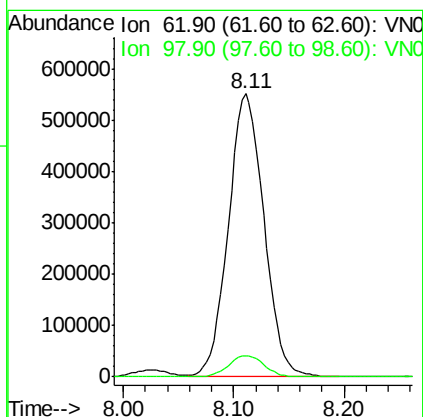
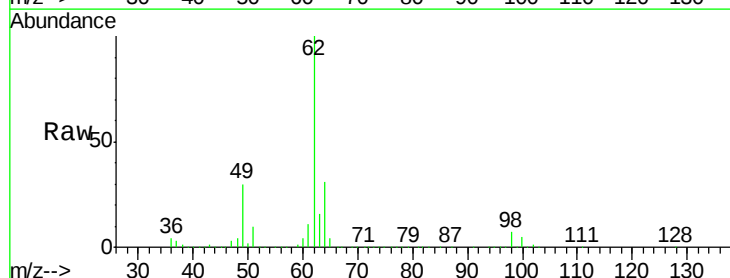
Manual Integrations
APPROVED

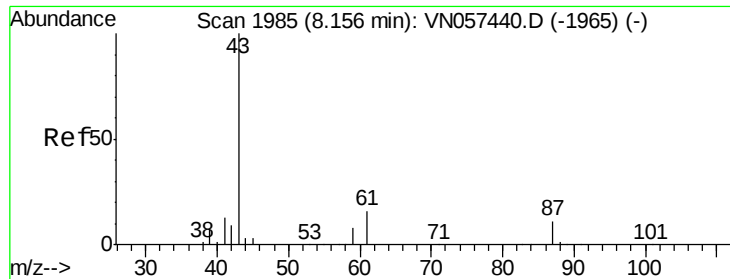
MMDadoda
8/23/2019 2:40:16 PM



#42
1,2-Dichloroethane
Concen: 177.951 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.6	0.0	15.4	





#43

Isopropyl Acetate

Concen: 162.861 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1975288

Ion Ratio Lower Upper

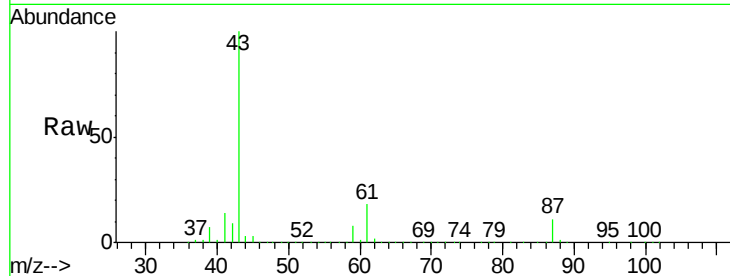
43 100

61 17.8 14.5 21.7

87 11.0 8.6 12.8

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8/23/2019 2:40:16 PM

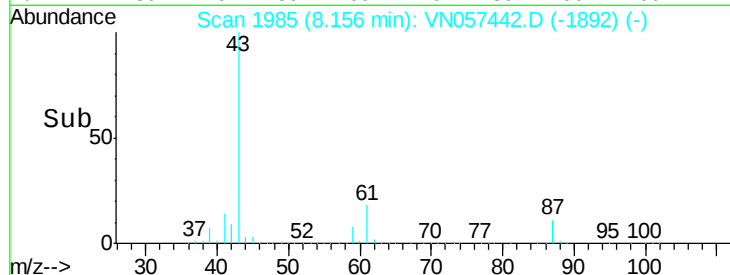


Abundance Ion 43.00 (42.70 to 43.70): VN057442.D (-1965) (-)

Ion 61.00 (60.70 to 61.70): VN057442.D (-1965) (-)

Ion 87.00 (86.70 to 87.70): VN057442.D (-1965) (-)

Time-->



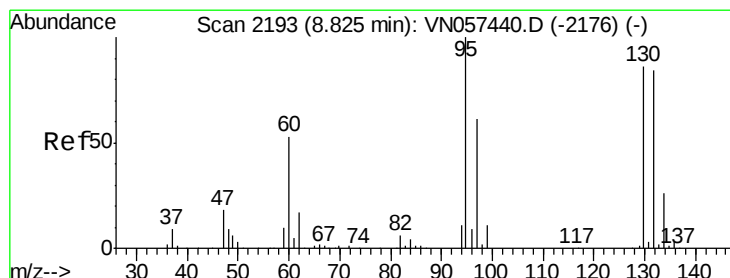
Abundance

Ion 43.00 (42.70 to 43.70): VN057442.D (-1892) (-)

Ion 61.00 (60.70 to 61.70): VN057442.D (-1892) (-)

Ion 87.00 (86.70 to 87.70): VN057442.D (-1892) (-)

Time-->



#44

Trichloroethene

Concen: 133.870 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN057442.D

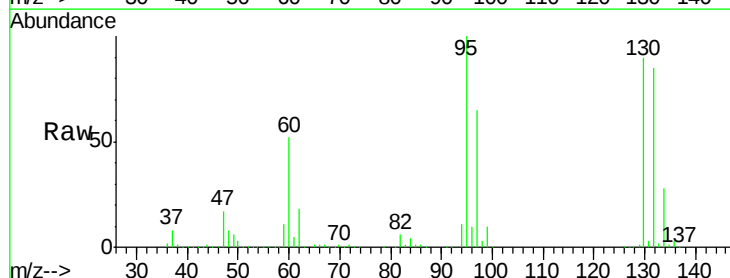
Acq: 22 Aug 2019 19:08

Tgt Ion: 130 Resp: 744685

Ion Ratio Lower Upper

130 100

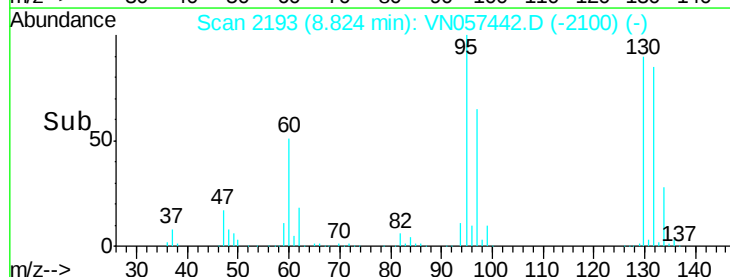
95 111.0 0.0 231.6



Abundance Ion 129.80 (129.50 to 130.50): VN057442.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN057442.D (-2176) (-)

Time-->

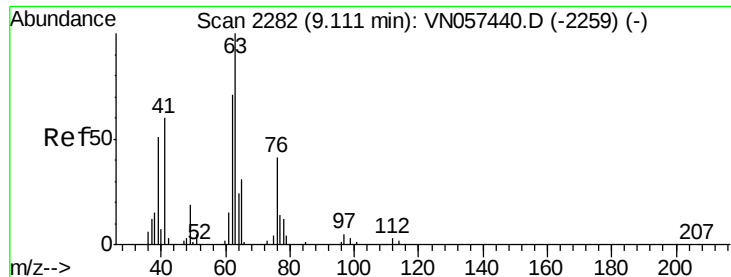


Abundance

Ion 129.80 (129.50 to 130.50): VN057442.D (-2100) (-)

Ion 94.90 (94.60 to 95.60): VN057442.D (-2100) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 170.344 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 907127

Ion Ratio Lower Upper

63 100

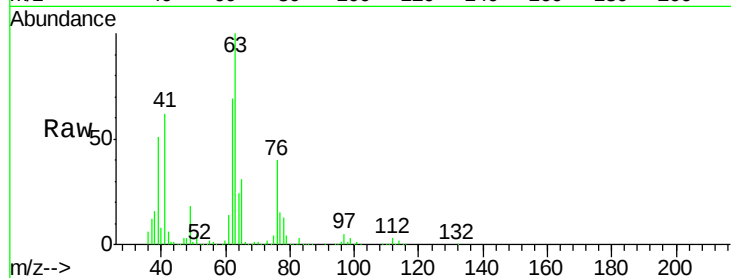
65 30.7 24.7 37.1

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Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.11

400000

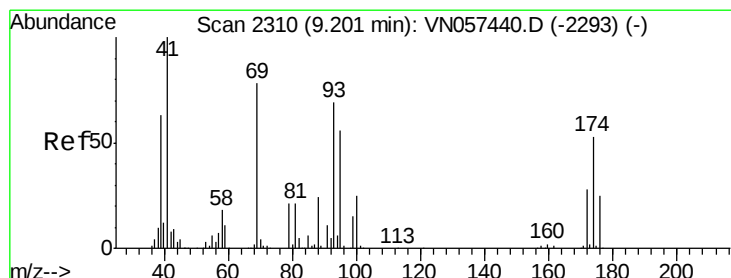
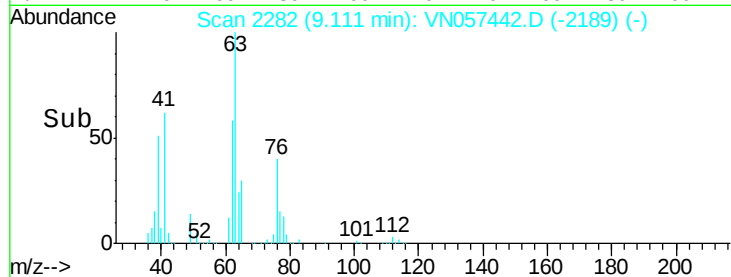
300000

200000

100000

0

Time-->



#46

Dibromomethane

Concen: 158.964 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

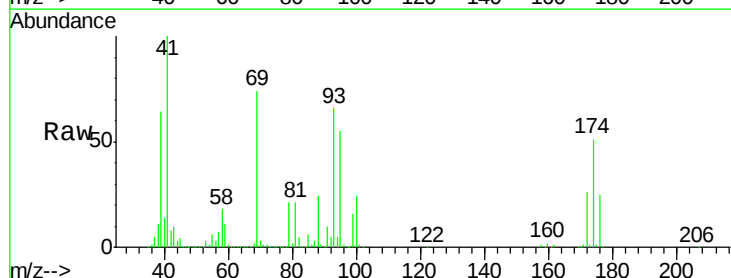
Tgt Ion: 93 Resp: 558965

Ion Ratio Lower Upper

93 100

95 83.2 64.7 97.1

174 79.7 62.3 93.5



Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO

9.20

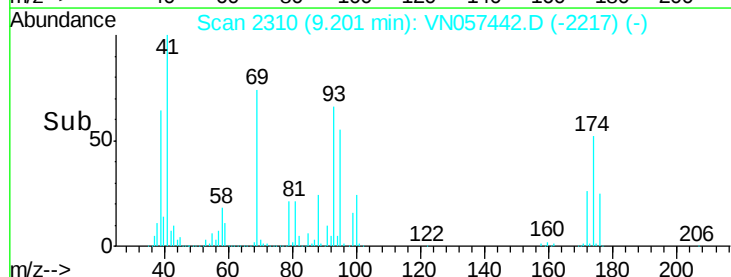
300000

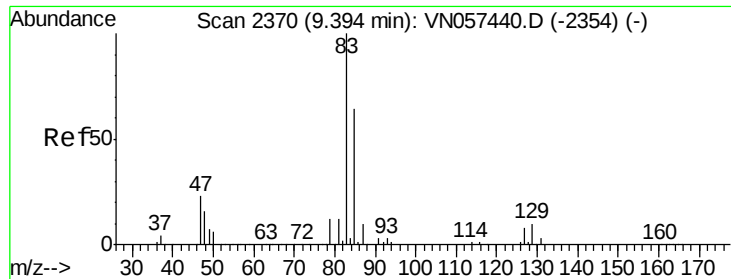
200000

100000

0

Time-->





#47

Bromodichloromethane

Concen: 172.400 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1210659

Ion Ratio Lower Upper

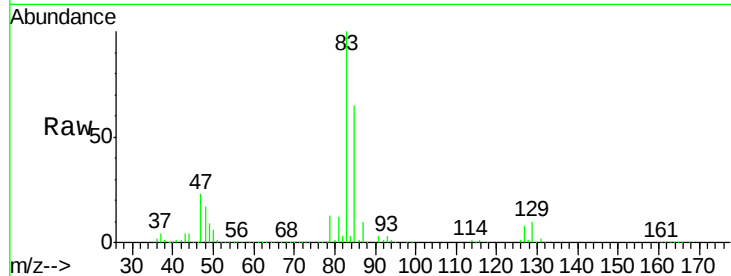
83 100

85 64.7 51.2 76.8

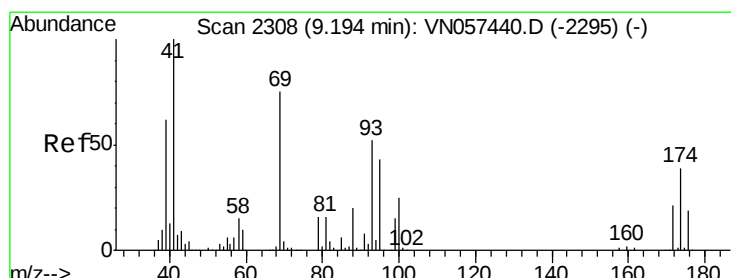
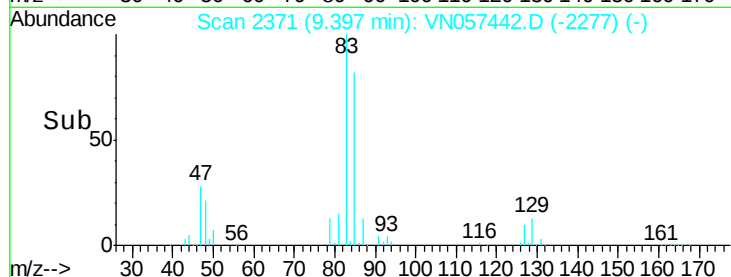
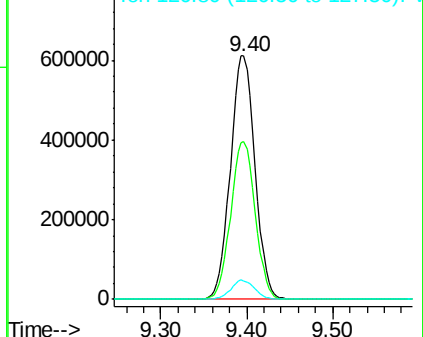
127 7.8 6.6 10.0

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



#48

Methyl methacrylate

Concen: 198.803 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

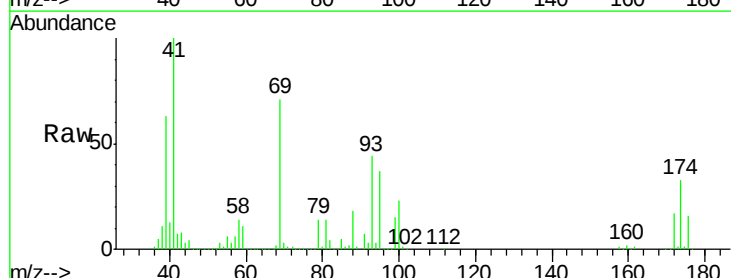
Tgt Ion: 41 Resp: 939524

Ion Ratio Lower Upper

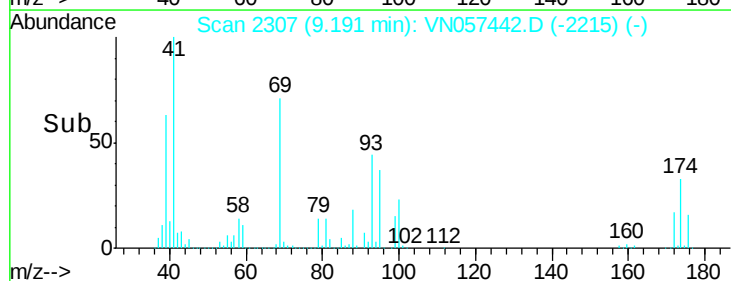
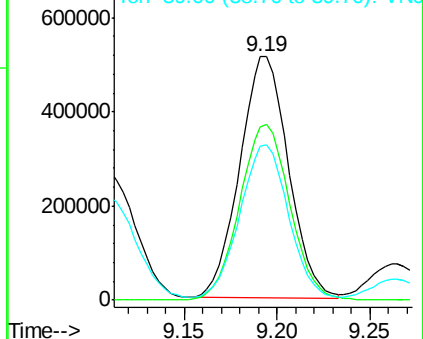
41 100

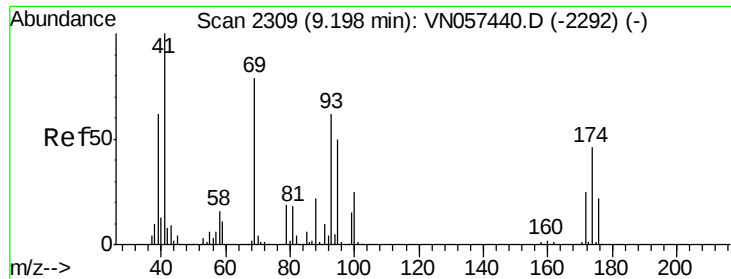
69 75.1 59.3 88.9

39 65.1 50.6 75.8



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





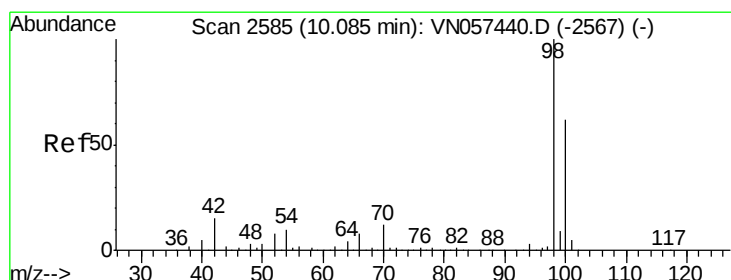
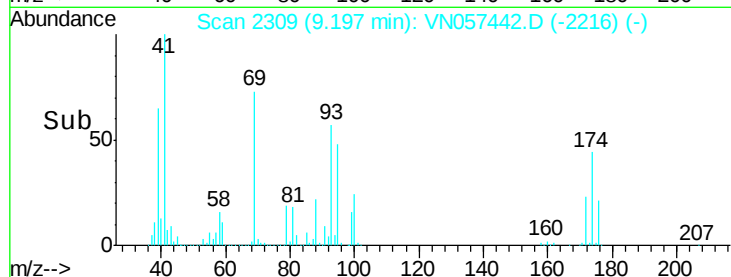
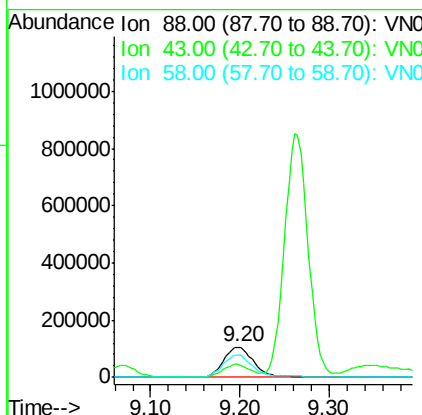
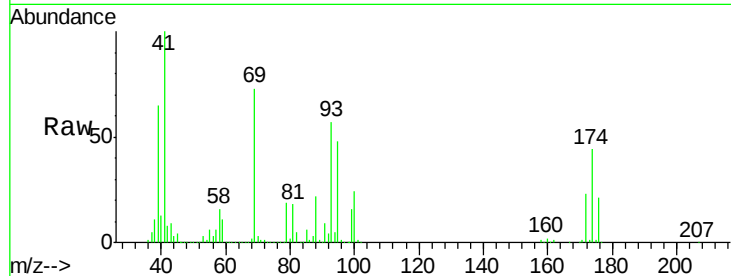
#49
1,4-Dioxane
Concen: 2742.710 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	88	Resp	248079
Ion	Ratio	Lower	Upper
88	100		
43	37.6	31.0	46.6
58	73.0	64.5	96.7

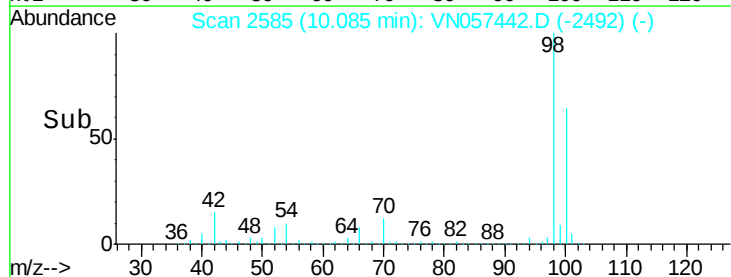
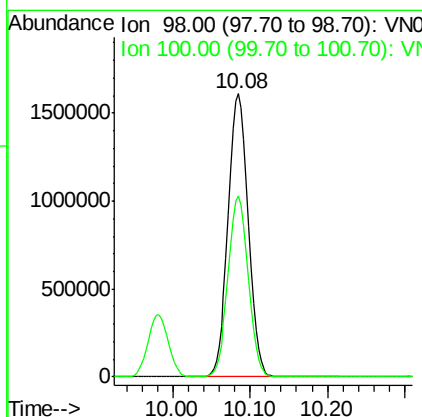
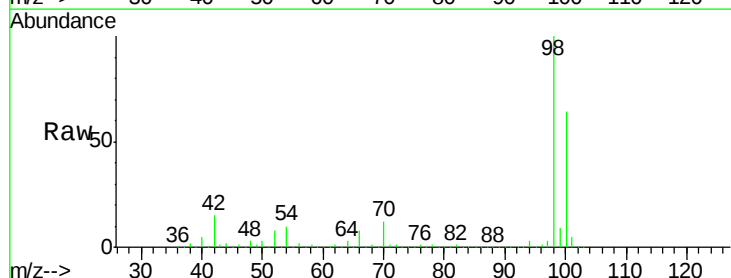
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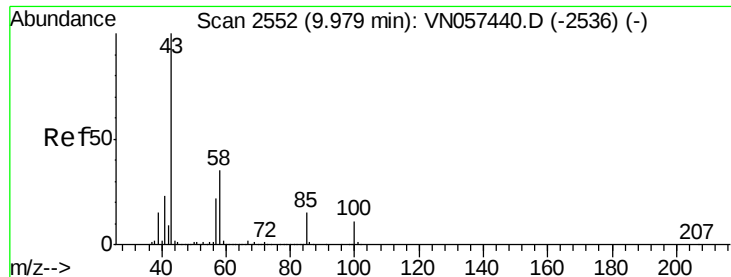
MMDadoda
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#50
Toluene-d8
Concen: 159.060 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion	98	Resp	2891579
Ion	Ratio	Lower	Upper
98	100		
100	63.8	50.4	75.6





#51

4-Methyl-2-Pentanone

Concen: 957.577 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 5605096

Ion Ratio Lower Upper

43 100

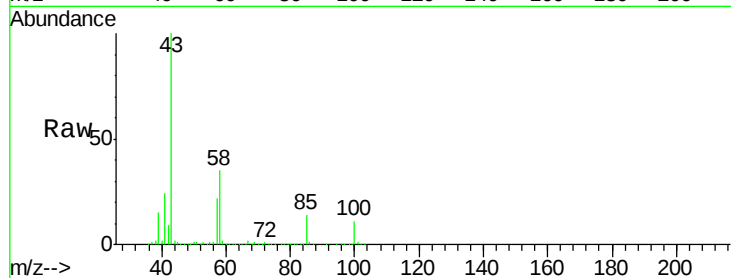
58 34.9 27.9 41.9

Manual Integrations

APPROVED

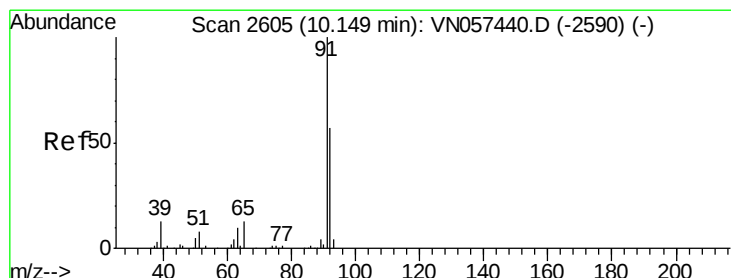
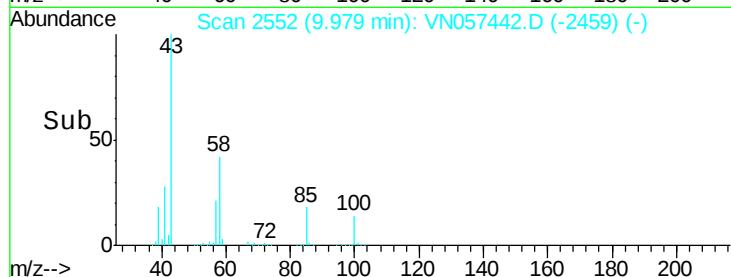
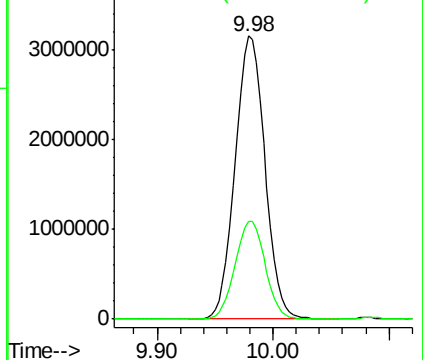
MMDadoda

8/23/2019 2:40:16 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 158.615 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057442.D

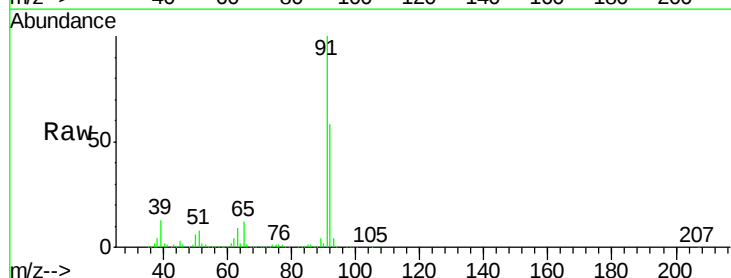
Acq: 22 Aug 2019 19:08

Tgt Ion: 92 Resp: 1990378

Ion Ratio Lower Upper

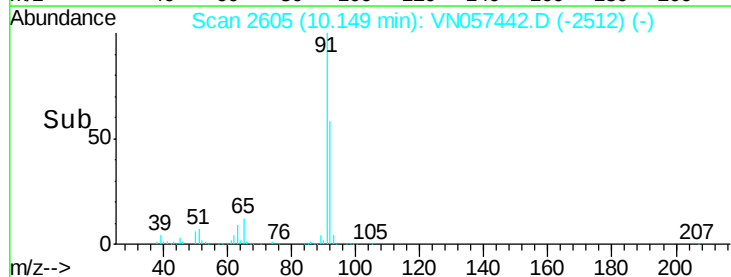
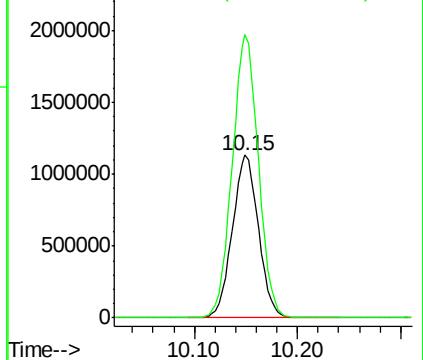
92 100

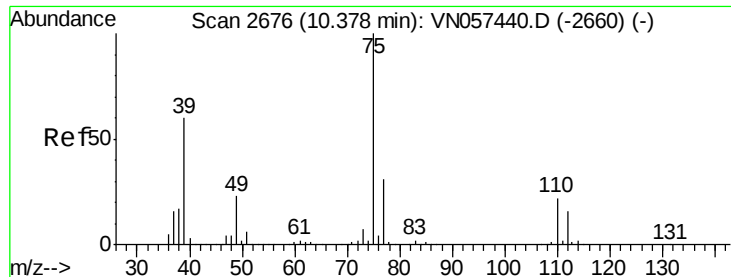
91 174.7 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





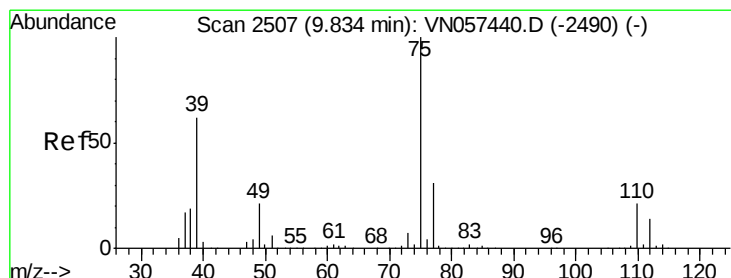
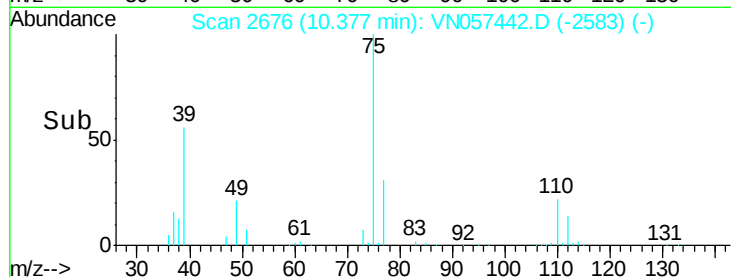
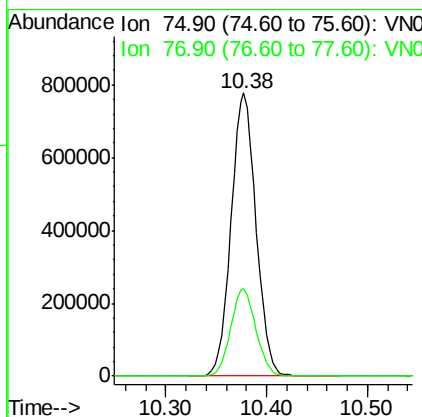
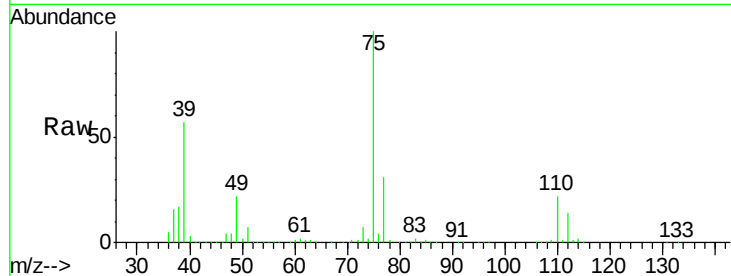
#53
 t-1,3-Dichloropropene
 Concen: 176.814 ug/l
 RT: 10.38 min Scan# 2676
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion: 75 Resp: 1337097
 Ion Ratio Lower Upper
 75 100
 77 30.8 25.0 37.6

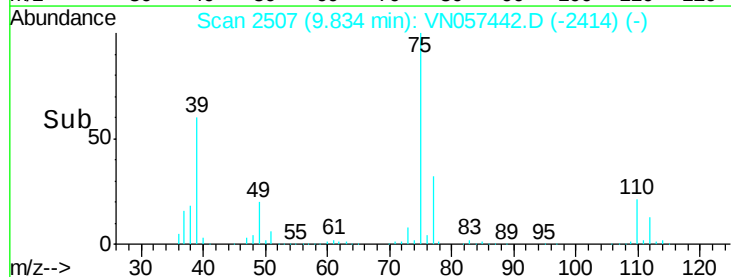
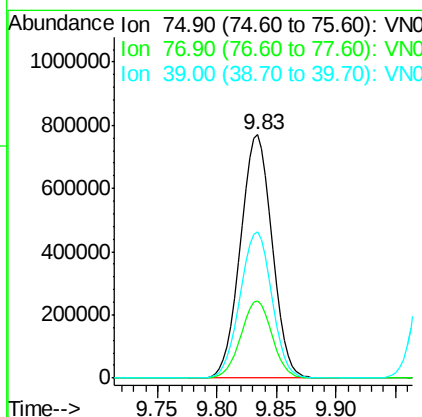
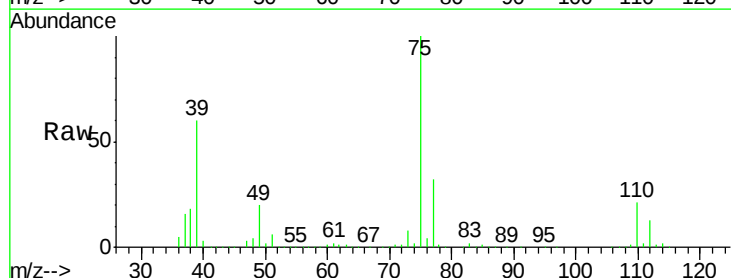
Manual Integrations
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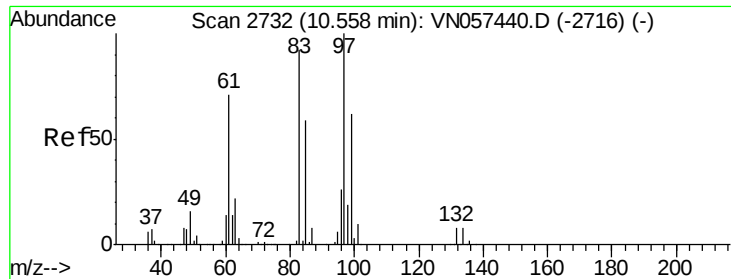
MMDadoda
 8/23/2019 2:40:16 PM



#54
 cis-1,3-Dichloropropene
 Concen: 171.096 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Tgt Ion: 75 Resp: 1423072
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.0 37.6
 39 59.9 49.2 73.8





#55

1,1,2-Trichloroethane

Concen: 151.264 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 97 Resp: 745835

Ion Ratio Lower Upper

97 100

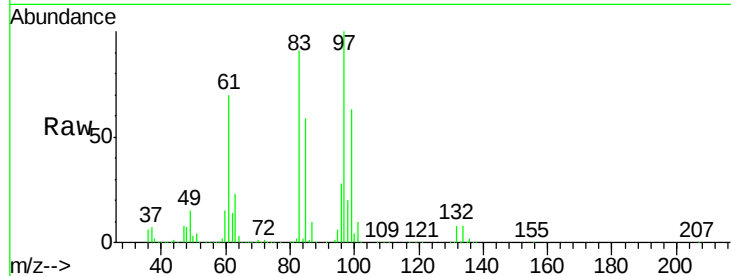
83 91.4 73.7 110.5

85 59.4 46.8 70.2

99 62.9 49.8 74.8

Manual Integrations
APPROVED

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8/23/2019 2:40:16 PM

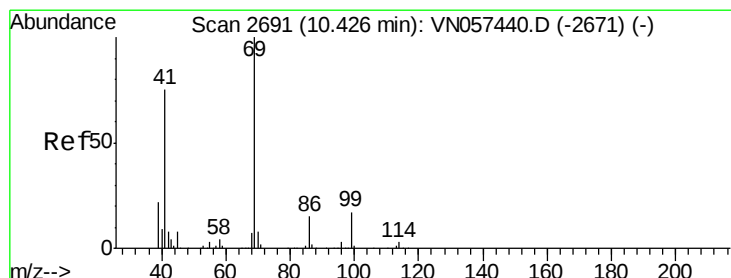
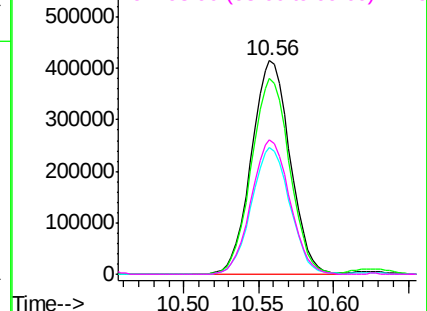
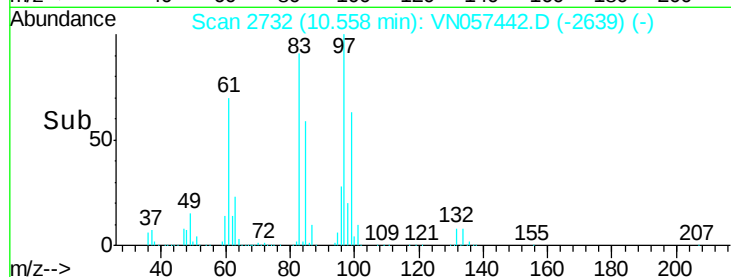


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 175.630 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

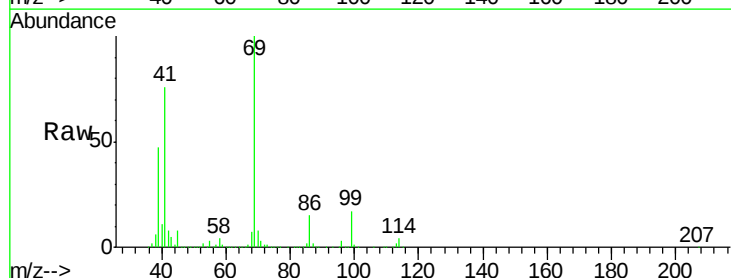
Tgt Ion: 69 Resp: 1283178

Ion Ratio Lower Upper

69 100

41 74.8 60.8 91.2

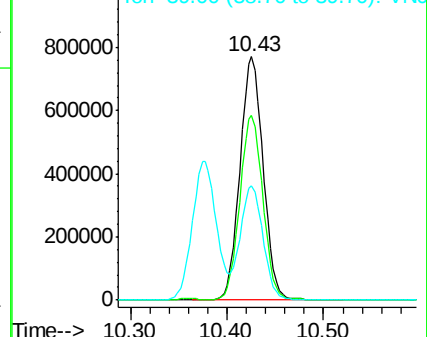
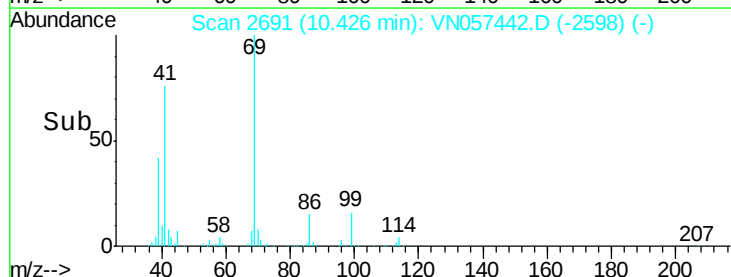
39 45.6 36.5 54.7

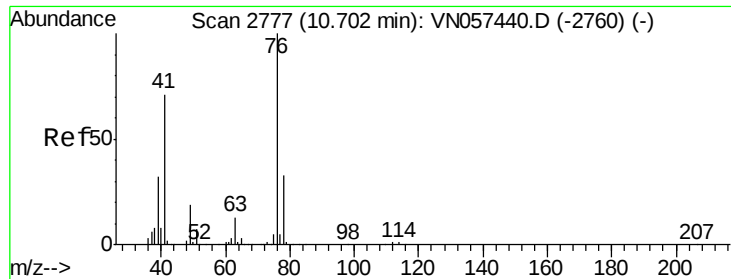


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 160.289 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 1336566

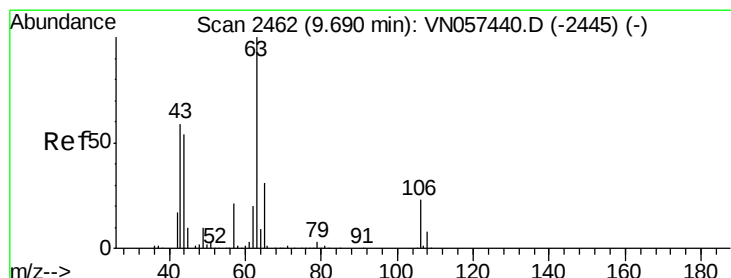
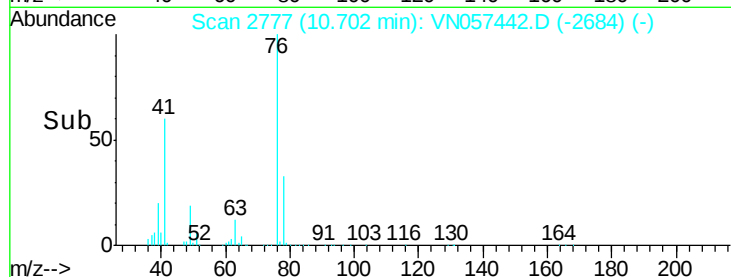
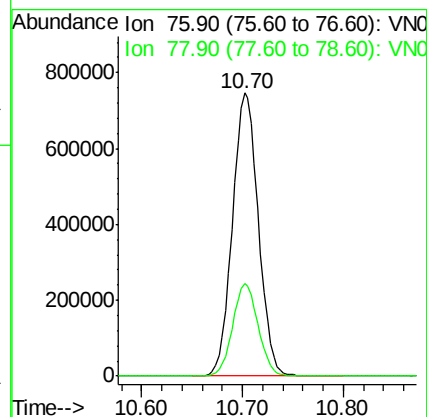
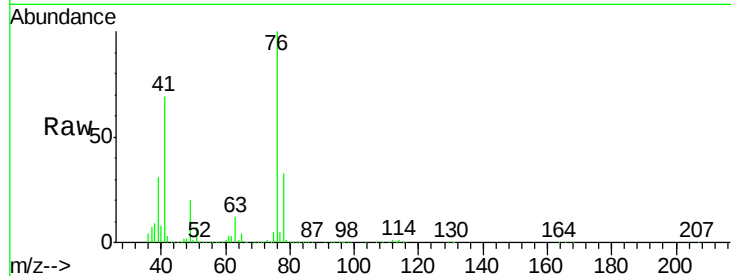
Ion Ratio Lower Upper

76 100

78 32.4 25.5 38.3

Manual Integrations
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MMDadoda
8/23/2019 2:40:16 PM



#58

2-Chloroethyl Vinyl ether

Concen: 985.728 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VN057442.D

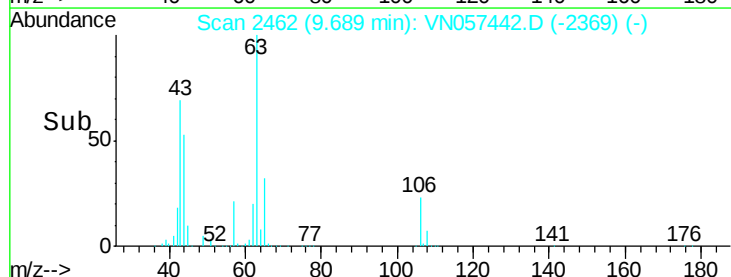
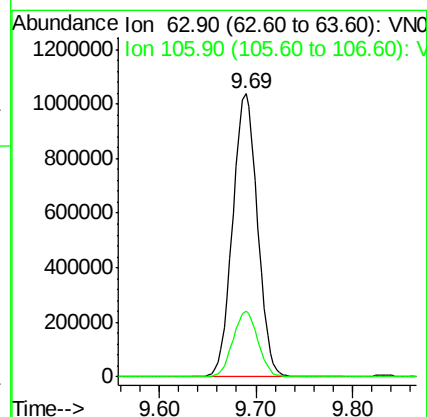
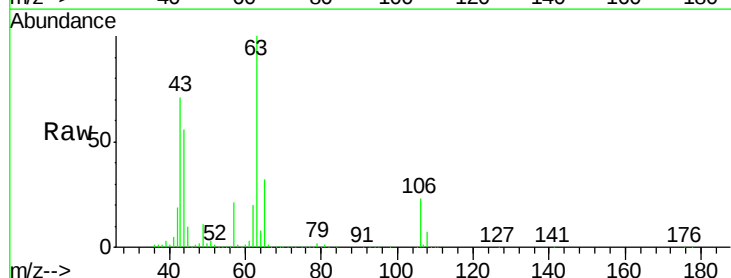
Acq: 22 Aug 2019 19:08

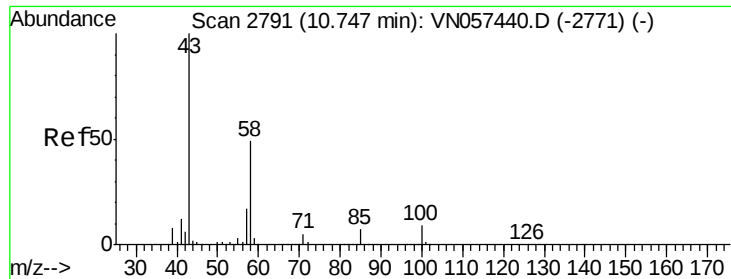
Tgt Ion: 63 Resp: 1847961

Ion Ratio Lower Upper

63 100

106 23.4 18.6 27.8





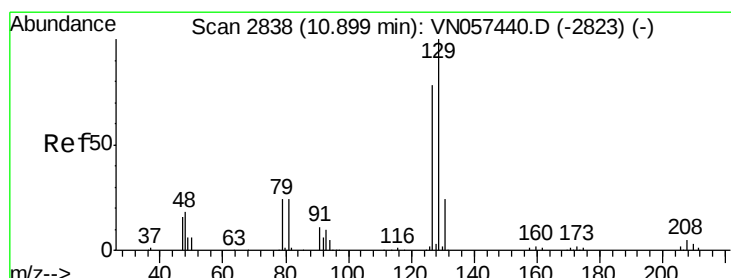
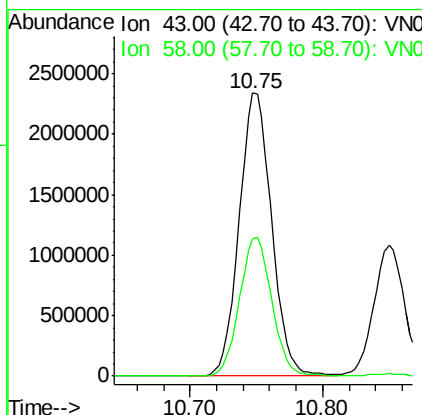
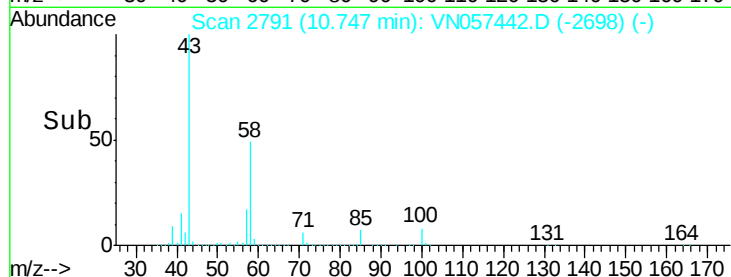
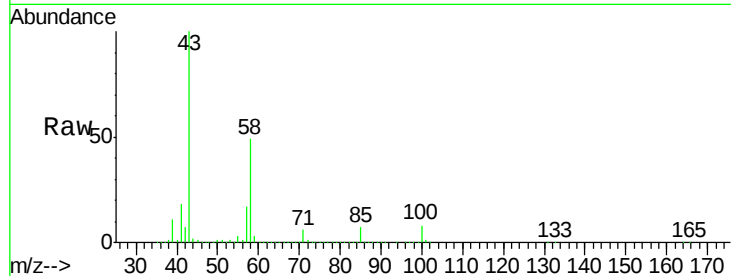
#59
2-Hexanone
Concen: 955.527 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 43 Resp: 3973348
Ion Ratio Lower Upper
43 100
58 49.1 24.6 73.6

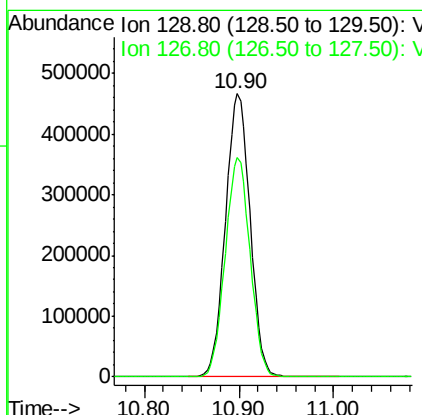
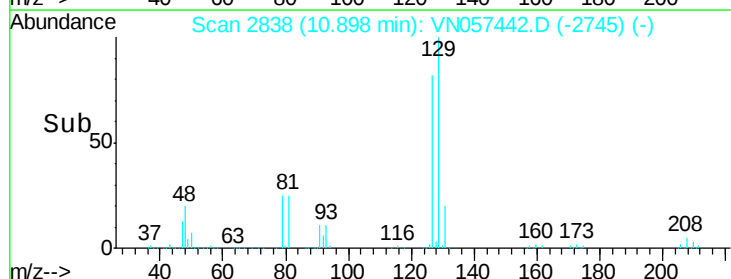
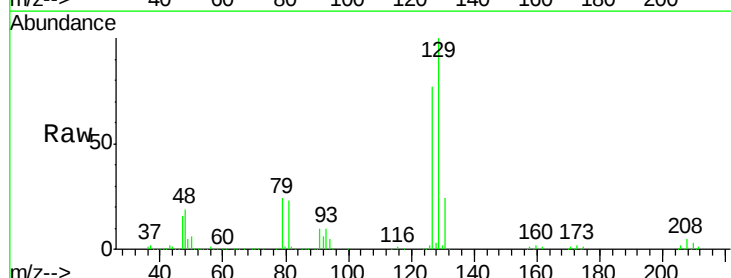
Manual Integrations
APPROVED

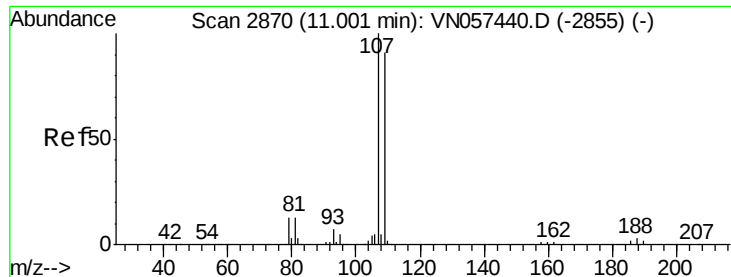
MMDadoda
8/23/2019 2:40:16 PM



#60
Dibromochloromethane
Concen: 154.137 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion: 129 Resp: 843619
Ion Ratio Lower Upper
129 100
127 78.5 39.0 116.9





#61

1,2-Dibromoethane

Concen: 148.992 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 107 Resp: 777594

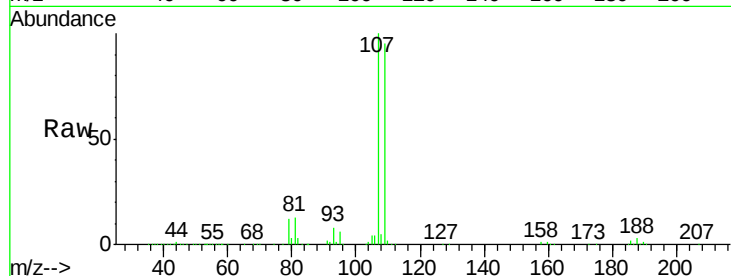
Ion Ratio Lower Upper

107 100

109 94.7 73.8 110.8

Manual Integrations
APPROVED

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

400000

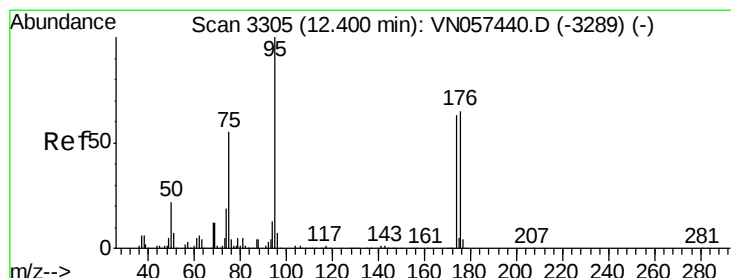
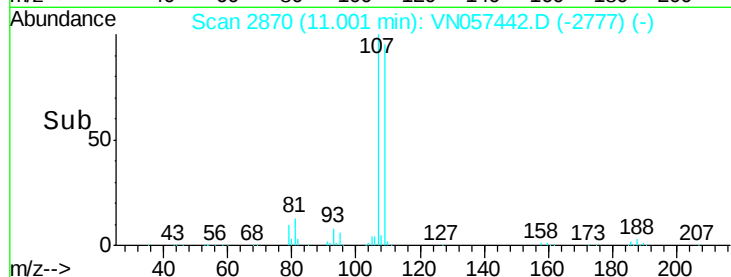
300000

200000

100000

0

Time--> 10.90 11.00



#62

4-Bromofluorobenzene

Concen: 162.814 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

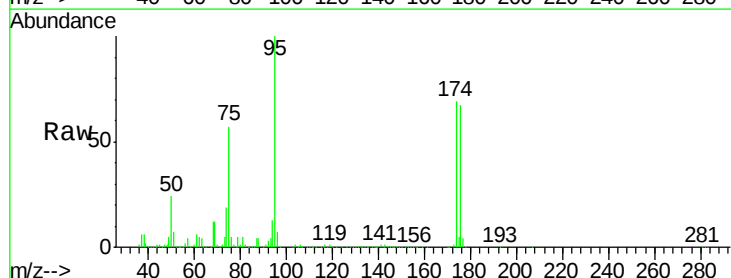
Tgt Ion: 95 Resp: 1040870

Ion Ratio Lower Upper

95 100

174 68.8 0.0 133.0

176 66.6 0.0 130.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

800000

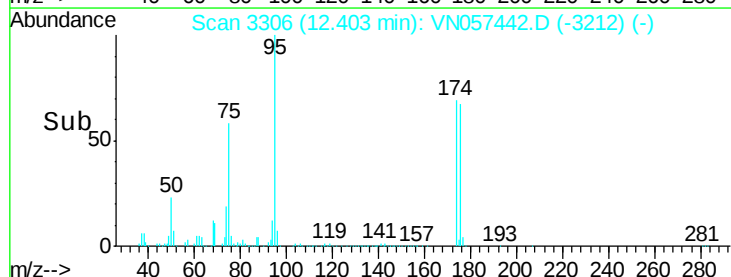
600000

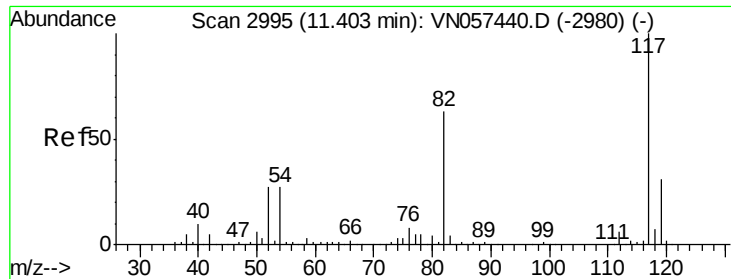
400000

200000

0

Time--> 12.30 12.40 12.50





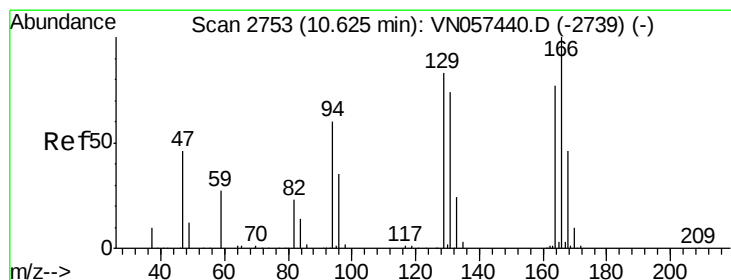
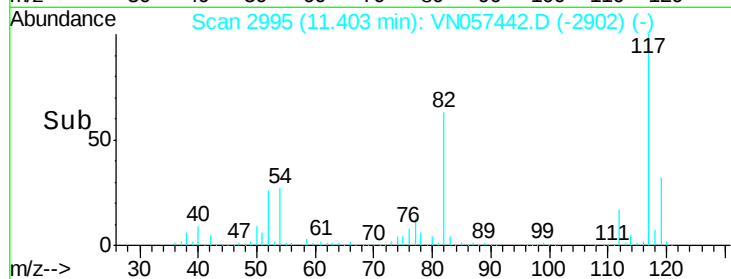
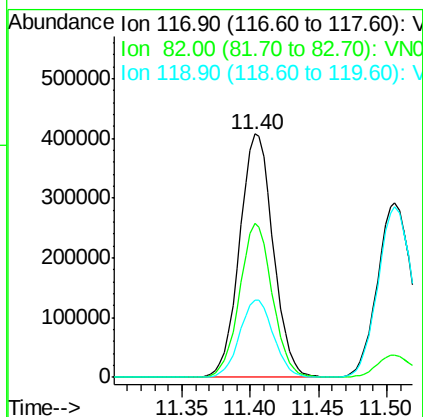
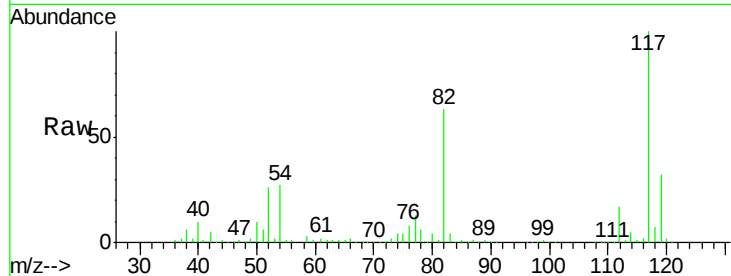
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.2	50.6	75.8
119	31.8	24.6	36.8

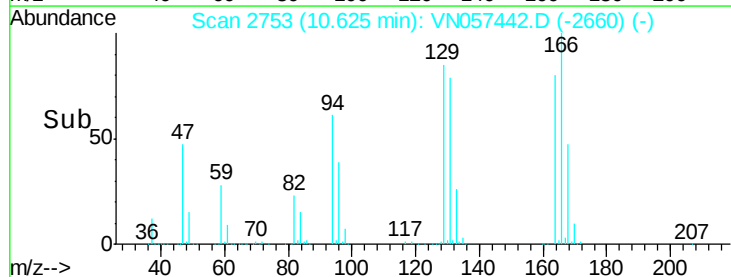
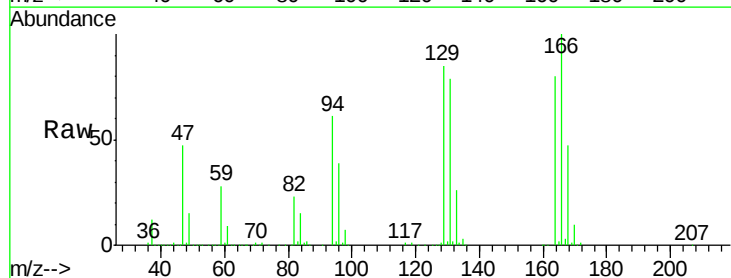
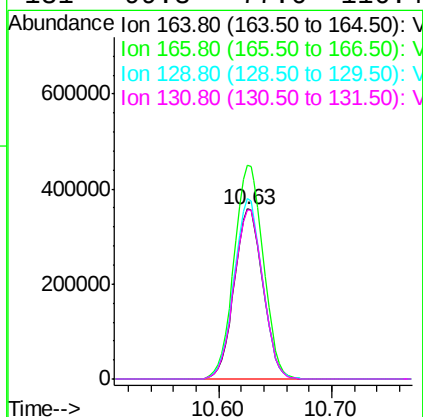
Manual Integrations
APPROVED

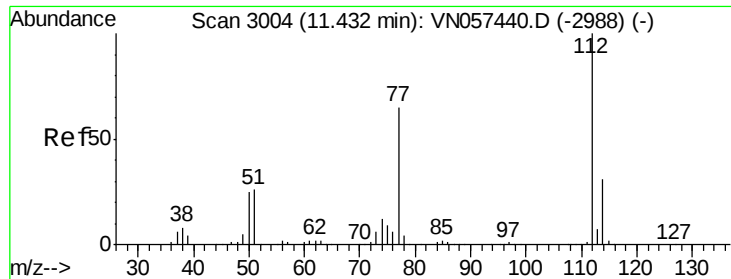
MMDadoda
8/23/2019 2:40:16 PM



#64
Tetrachloroethene
Concen: 108.826 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.7	104.4	156.6
129	106.5	86.6	130.0
131	99.3	77.6	116.4





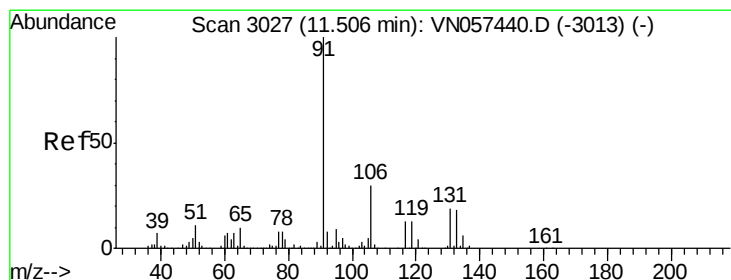
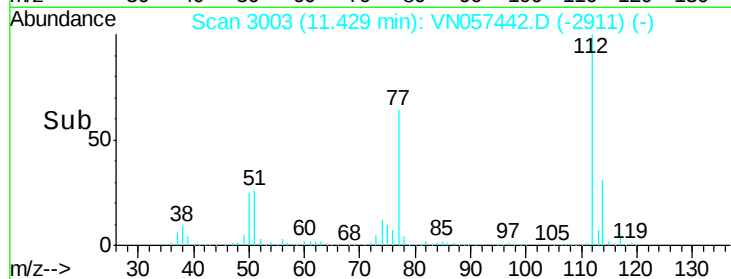
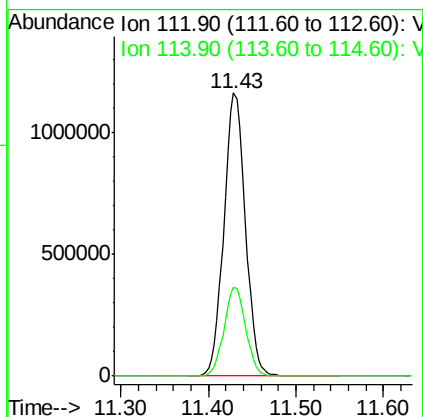
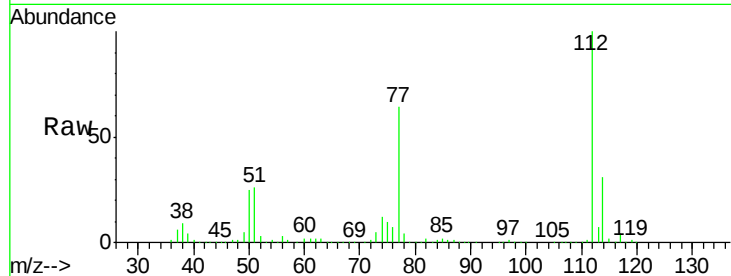
#65
Chlorobenzene
Concen: 141.426 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion:112 Resp: 1990364
Ion Ratio Lower Upper
112 100
114 31.4 24.8 37.2

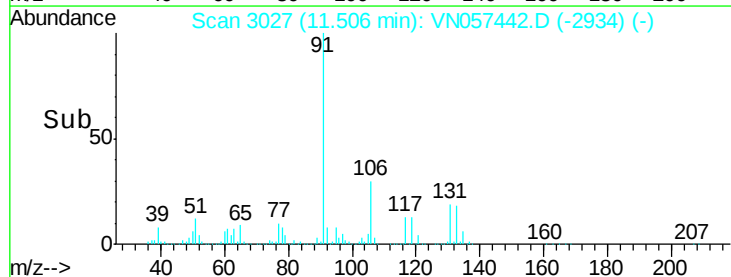
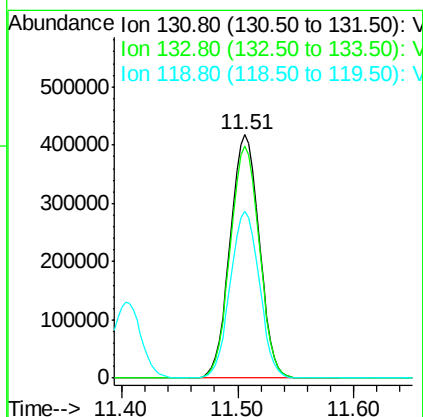
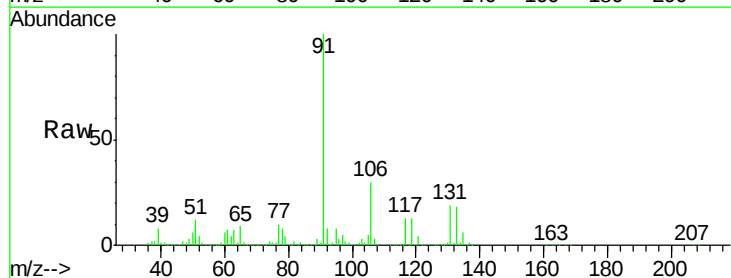
Manual Integrations
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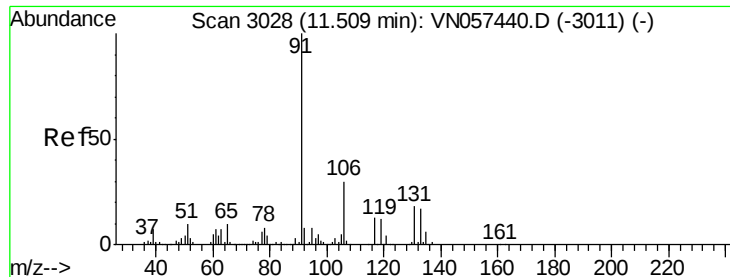
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 135.105 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion:131 Resp: 726985
Ion Ratio Lower Upper
131 100
133 95.2 47.6 142.8
119 68.3 34.4 103.2





#67

Ethyl Benzene

Concen: 152.819 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 91 Resp: 3841734

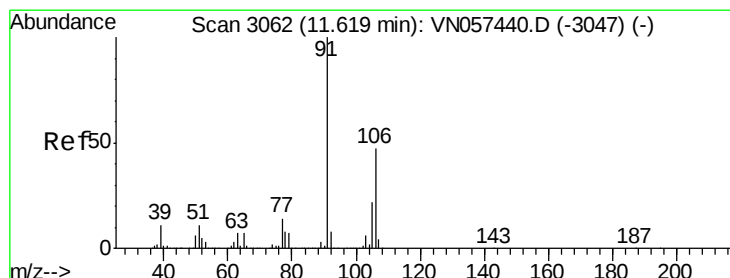
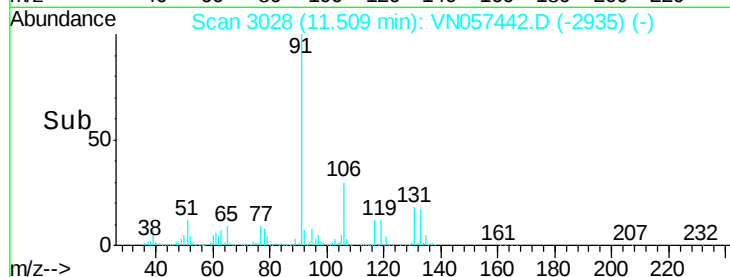
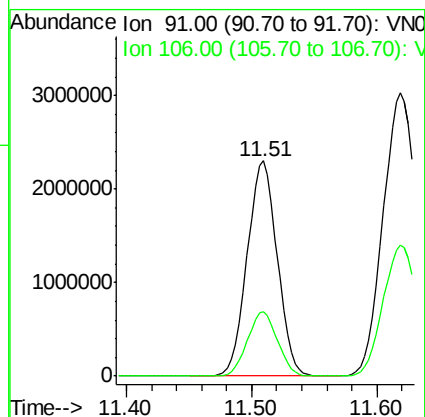
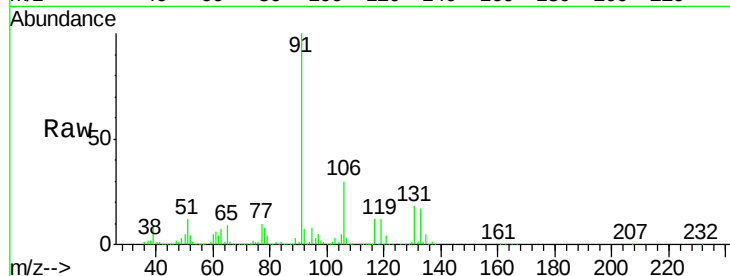
Ion Ratio Lower Upper

91 100

106 30.2 24.1 36.1

Manual Integrations
APPROVED

MMDadoda
8/23/2019 2:40:16 PM



#68

m/p-Xylenes

Concen: 298.504 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN057442.D

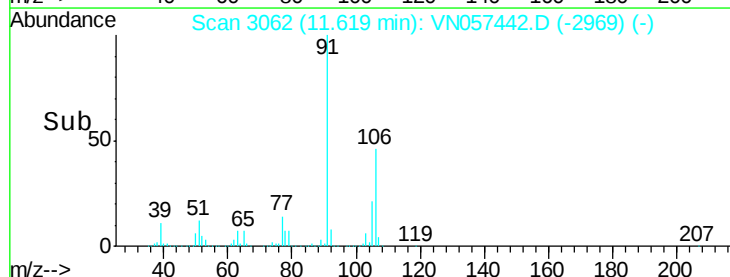
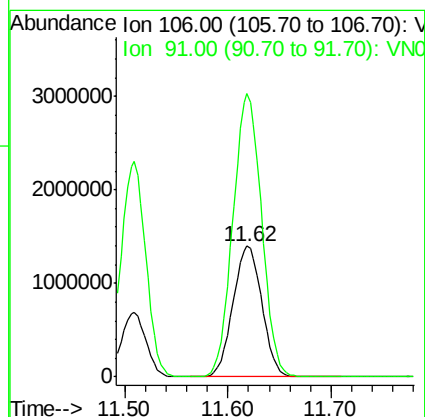
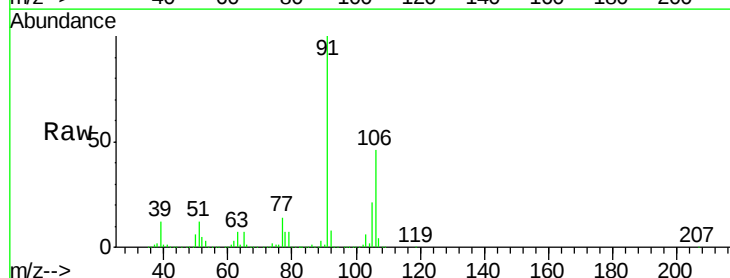
Acq: 22 Aug 2019 19:08

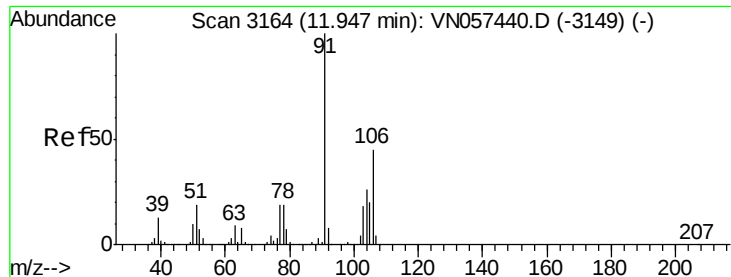
Tgt Ion: 106 Resp: 2730486

Ion Ratio Lower Upper

106 100

91 214.7 171.8 257.6





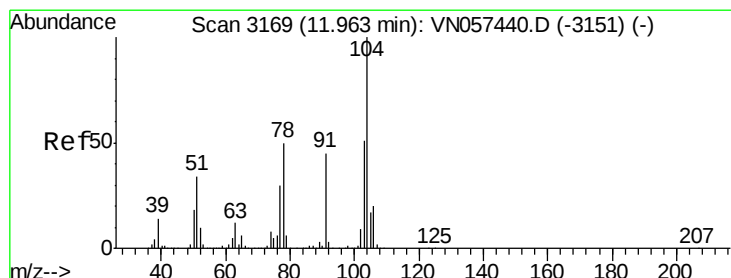
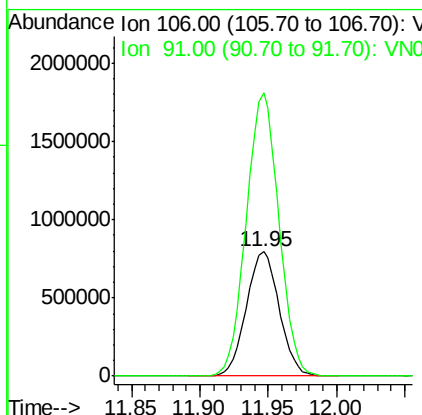
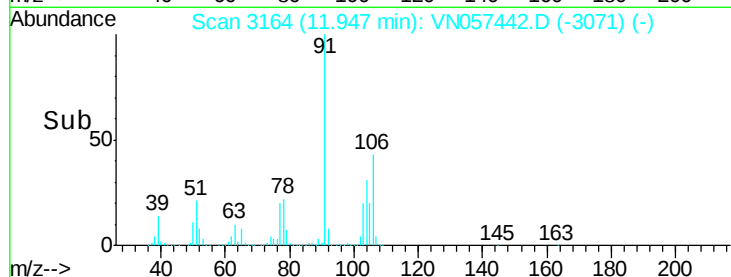
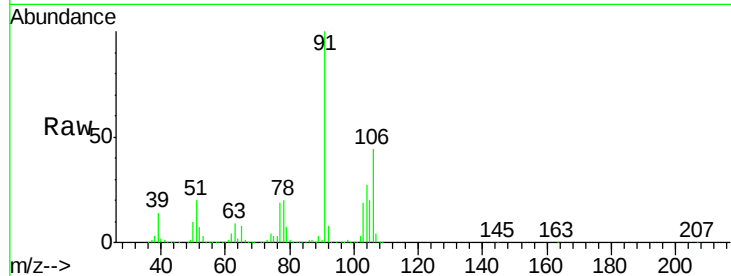
#69
o-Xylene
Concen: 148.007 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion:106 Resp: 1330938
Ion Ratio Lower Upper
106 100
91 225.9 112.3 336.9

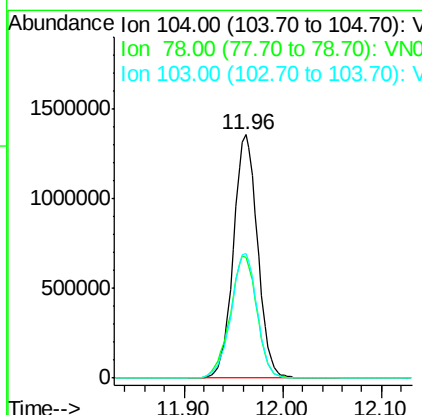
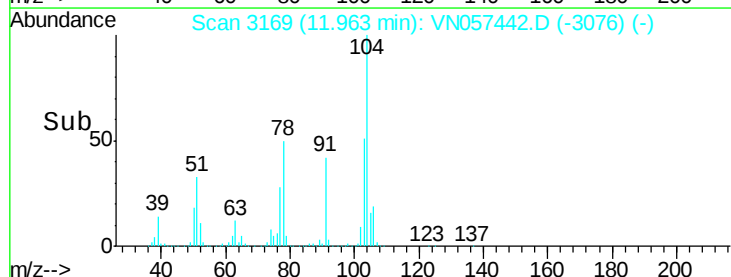
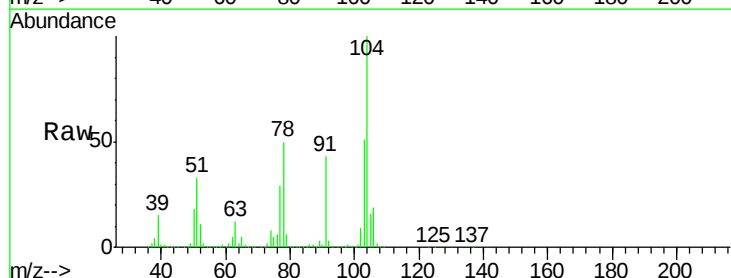
Manual Integrations
APPROVED

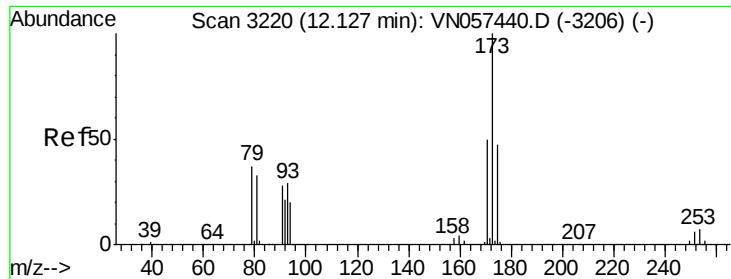
MMDadoda
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#70
Styrene
Concen: 161.471 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion:104 Resp: 2315343
Ion Ratio Lower Upper
104 100
78 55.7 44.7 67.1
103 55.3 44.4 66.6





#71

Bromoform

Concen: 131.217 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:173 Resp: 544438

Ion Ratio Lower Upper

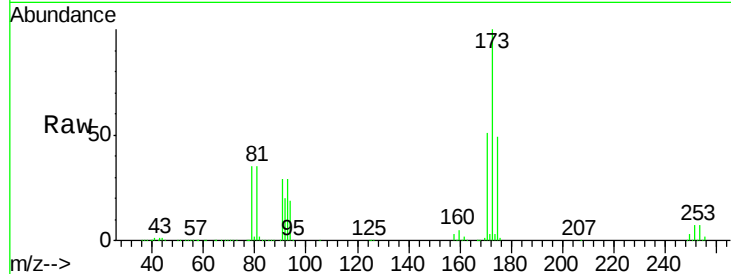
173 100

175 48.7 23.9 71.8

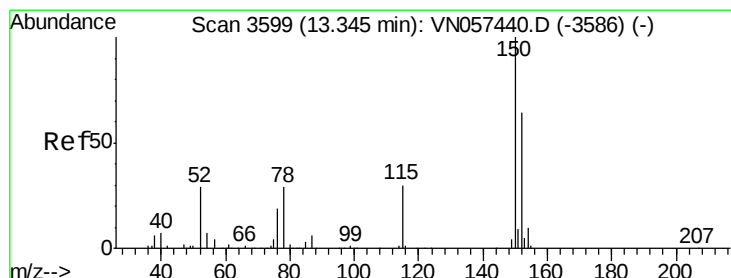
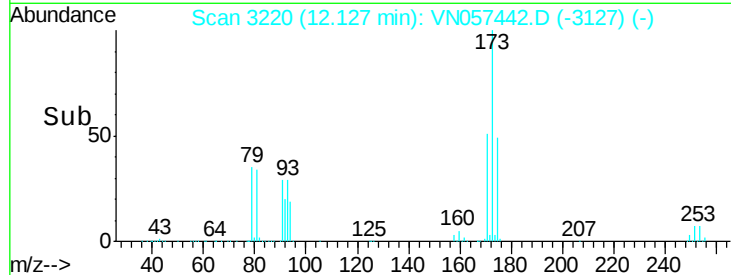
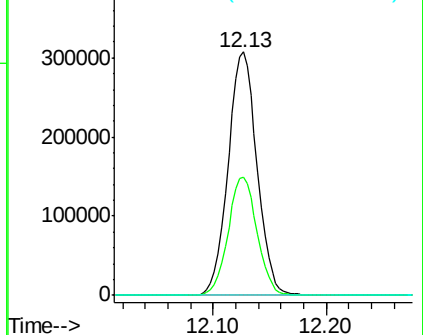
254 0.1 0.1 0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

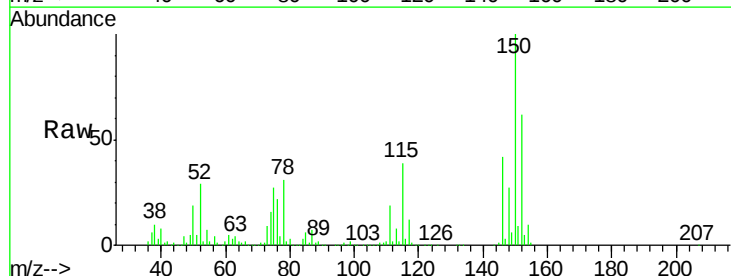
Tgt Ion:152 Resp: 294759

Ion Ratio Lower Upper

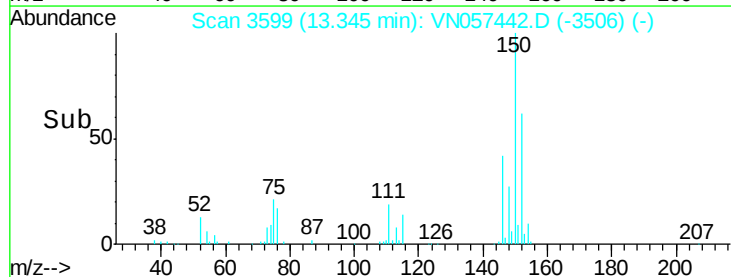
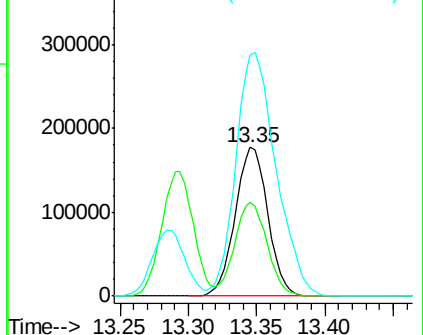
152 100

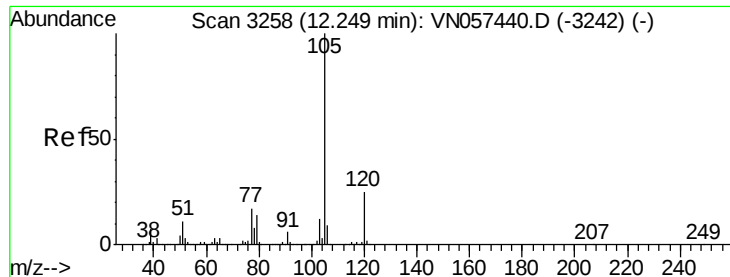
115 62.7 32.0 96.0

150 201.6 0.0 346.6



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





#73

Isopropylbenzene

Concen: 126.437 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 3654876

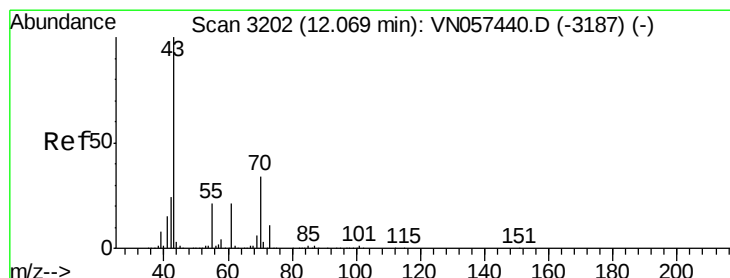
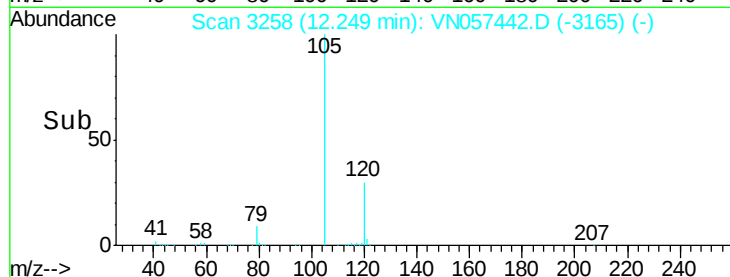
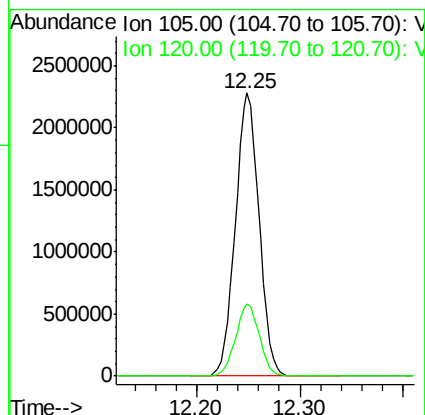
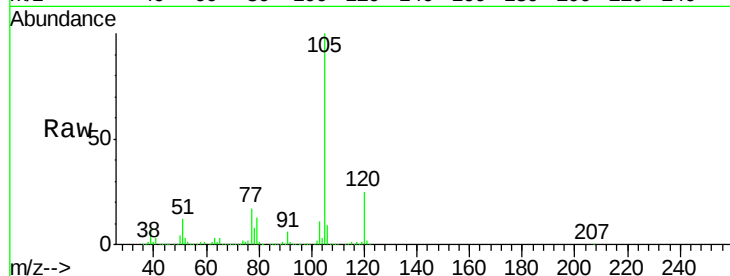
Ion Ratio Lower Upper

105 100

120 25.5 12.7 38.0

Manual Integrations
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#74

N-ethyl acetate

Concen: 187.456 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Tgt Ion: 43 Resp: 1748013

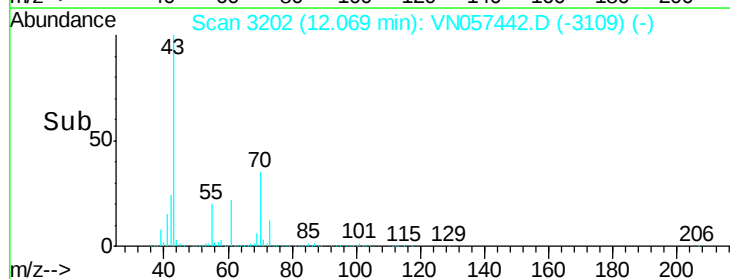
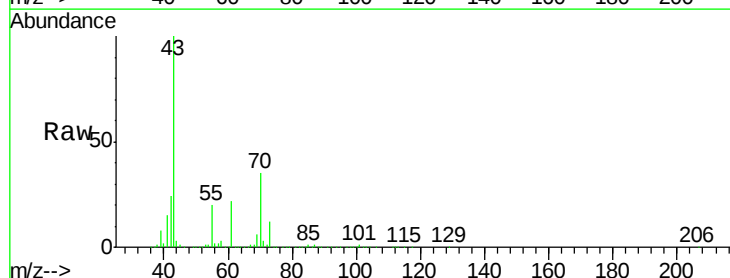
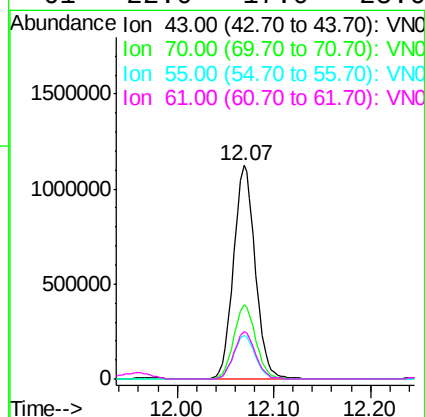
Ion Ratio Lower Upper

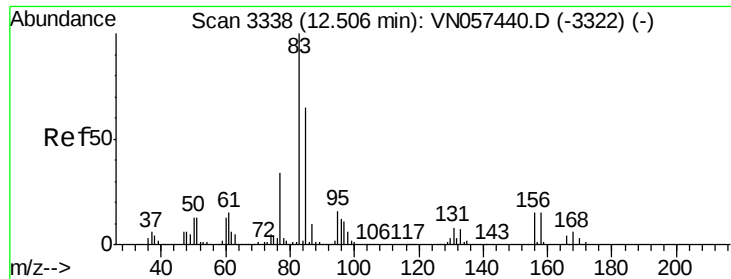
43 100

70 35.2 27.8 41.6

55 20.6 17.0 25.4

61 22.0 17.0 25.6





#75

1,1,2,2-Tetrachloroethane

Concen: 125.535 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1061113

Ion Ratio Lower Upper

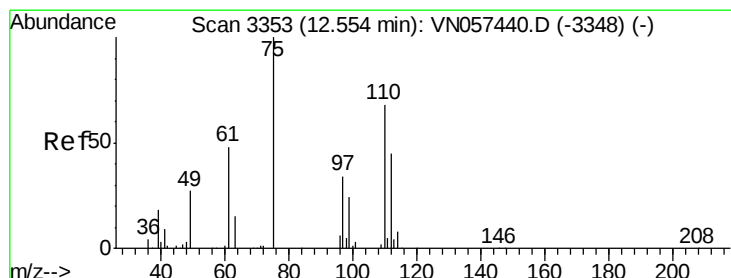
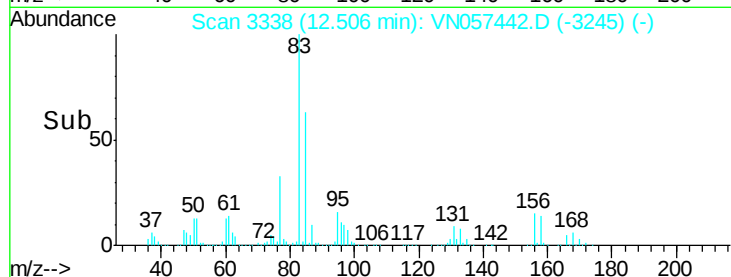
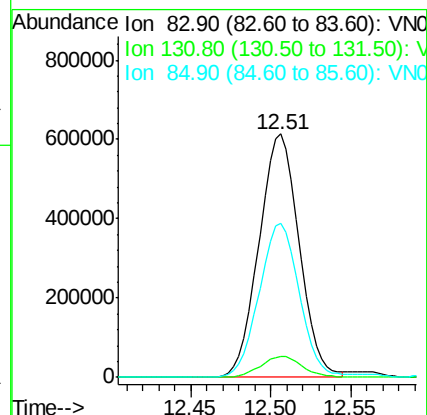
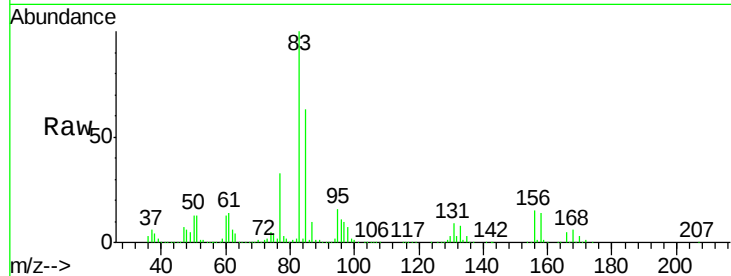
83 100

131 9.0 4.3 13.1

85 63.4 32.3 96.8

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#76

1,2,3-Trichloropropane

Concen: 128.667 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN057442.D

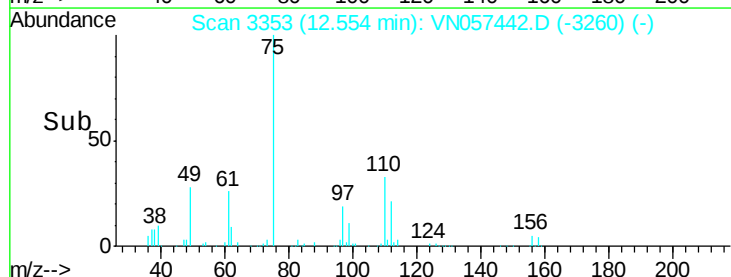
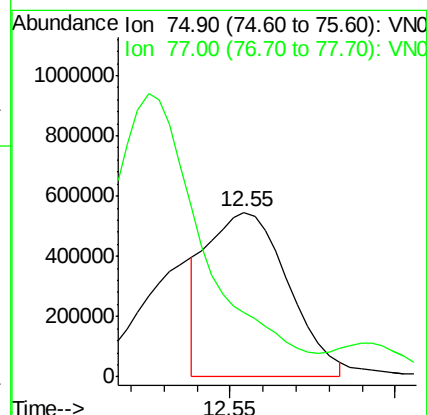
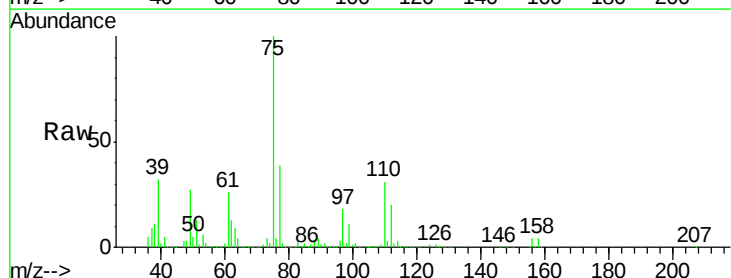
Acq: 22 Aug 2019 19:08

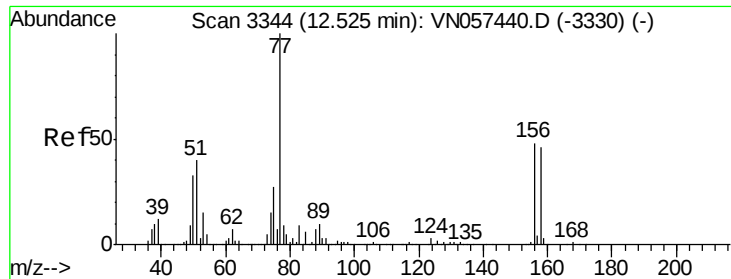
Tgt Ion: 75 Resp: 932669

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 105.734 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:156 Resp: 771085

Ion Ratio Lower Upper

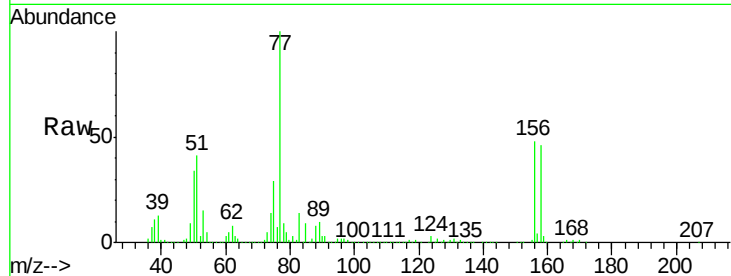
156 100

77 246.4 124.4 373.3

158 95.9 48.3 144.8

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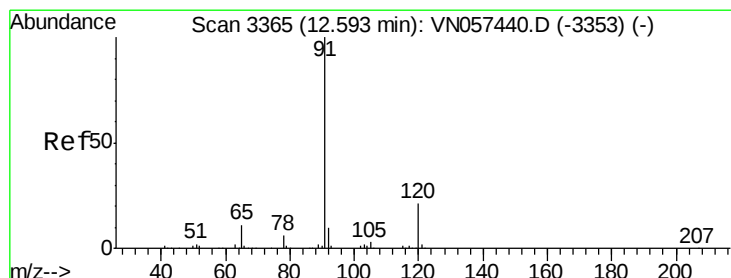
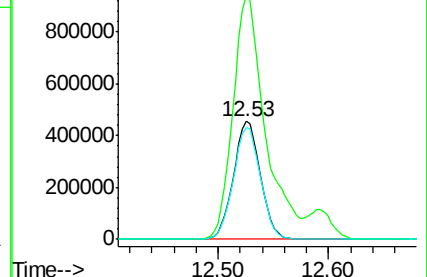
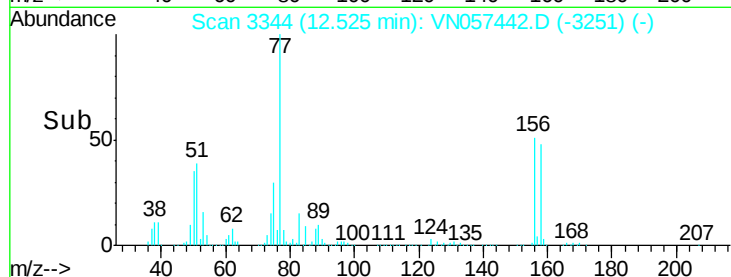
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 147.634 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN057442.D

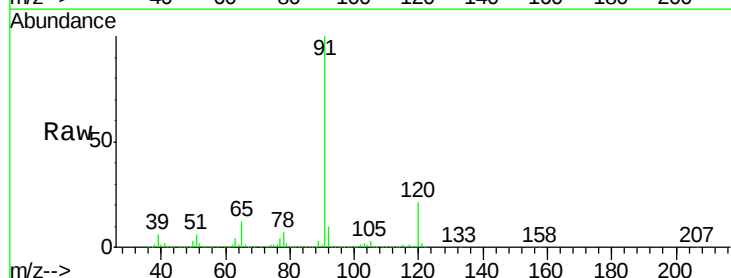
Acq: 22 Aug 2019 19:08

Tgt Ion: 91 Resp: 4298349

Ion Ratio Lower Upper

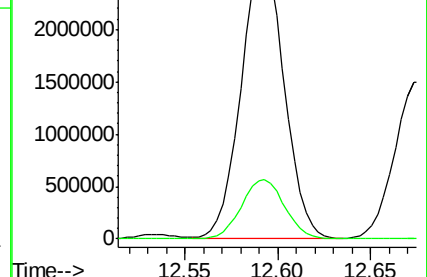
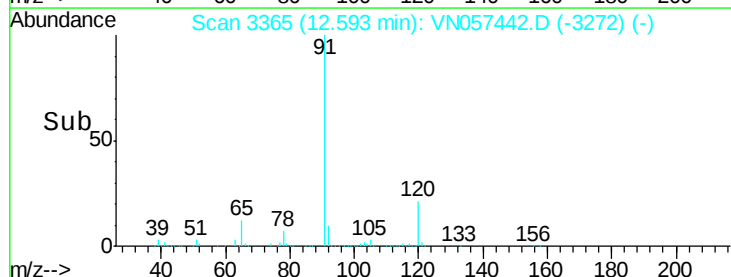
91 100

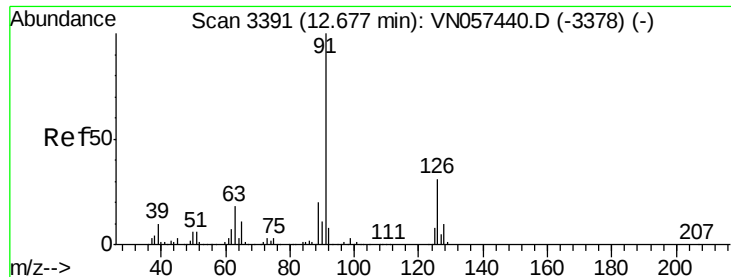
120 21.3 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 134.135 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 91 Resp: 2493591

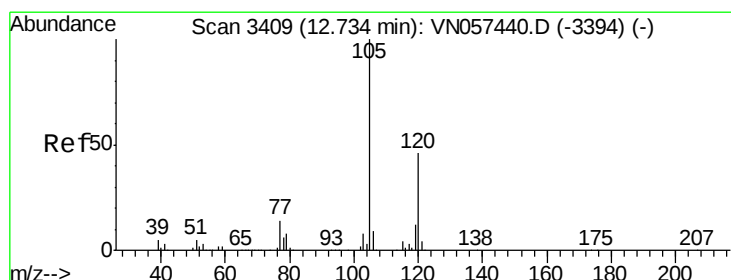
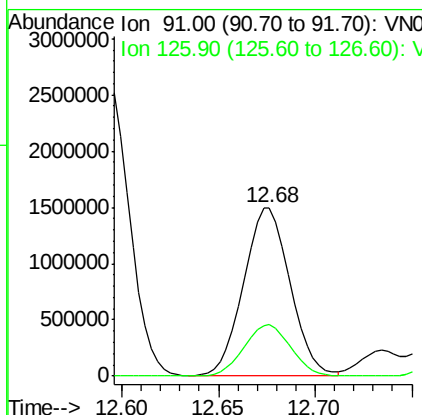
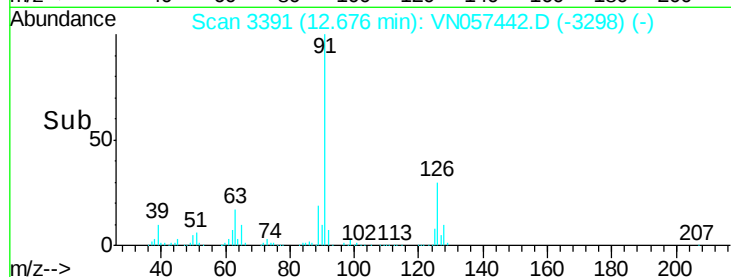
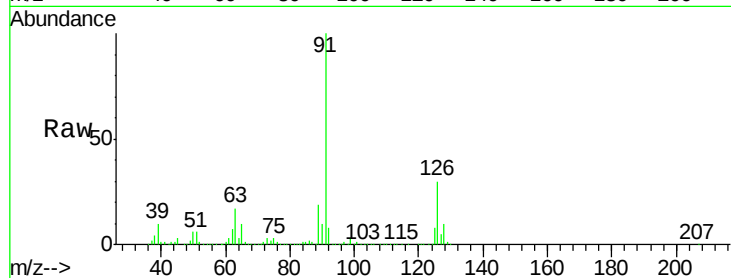
Ion Ratio Lower Upper

91 100

126 31.1 15.3 45.8

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#80

1,3,5-Trimethylbenzene

Concen: 130.167 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057442.D

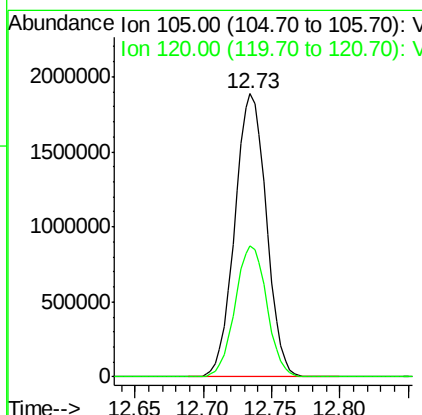
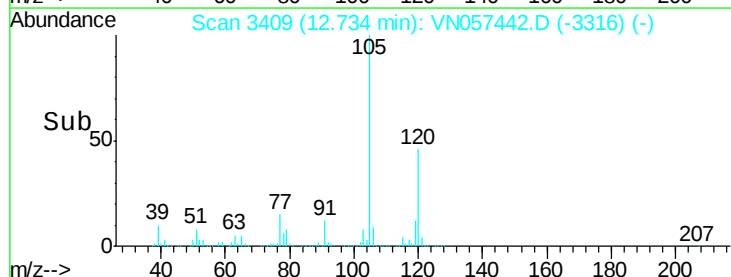
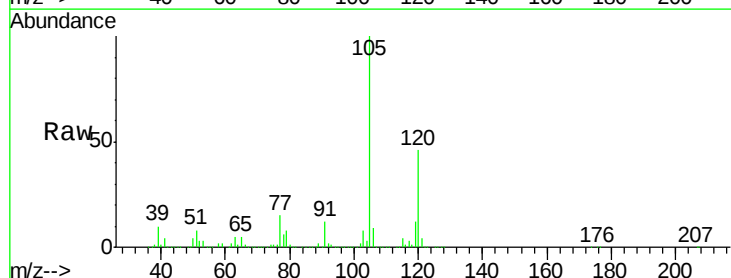
Acq: 22 Aug 2019 19:08

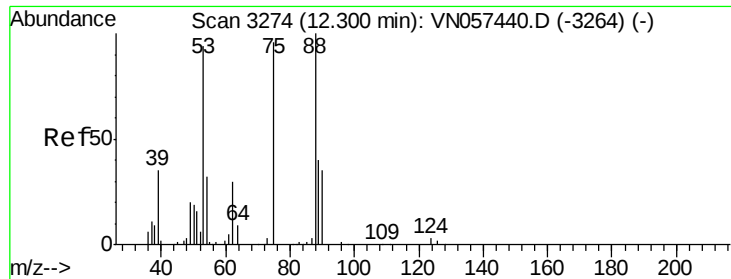
Tgt Ion: 105 Resp: 3026638

Ion Ratio Lower Upper

105 100

120 46.6 23.3 69.8





#81

trans-1,4-Dichloro-2-butene

Concen: 154.777 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

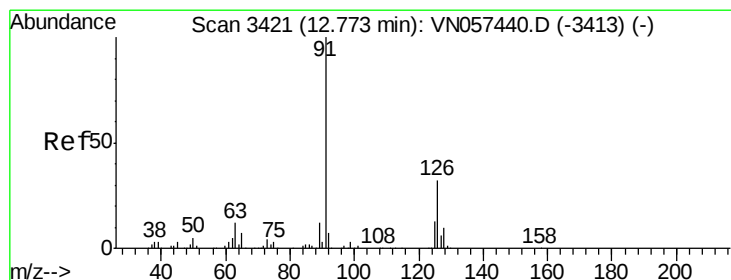
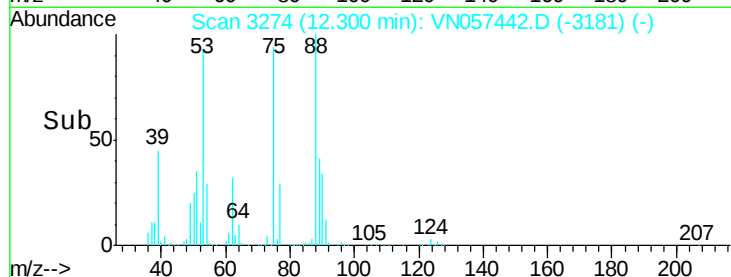
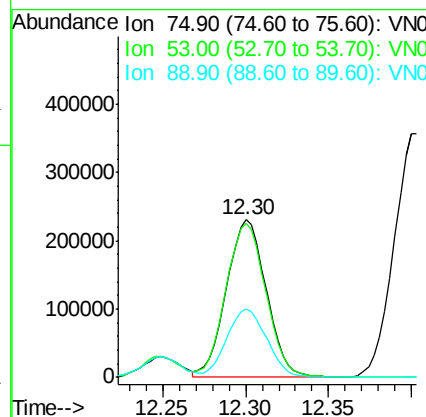
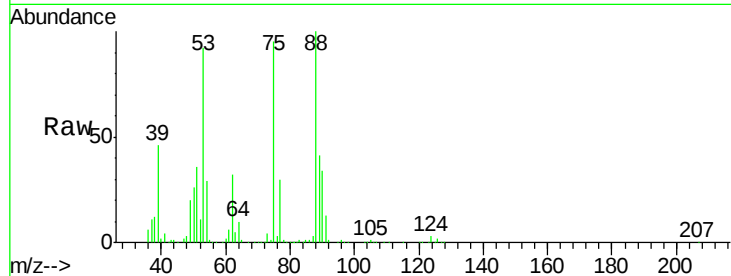
ClientSampleId :

VSTDIC150

Tot Ion:	75	Resp:	383143
Ion Ratio	Lower	Upper	
75	100		
53	99.3	82.7	124.1
89	44.1	35.8	53.8

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#82

4-Chlorotoluene

Concen: 148.211 ug/l

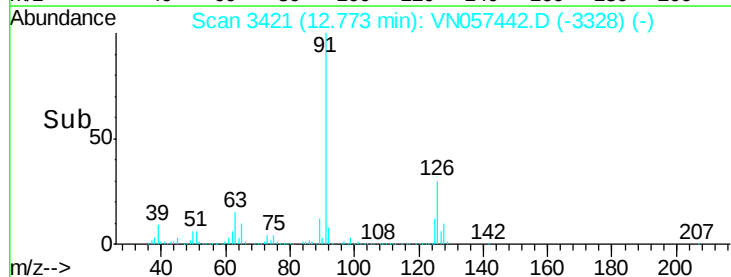
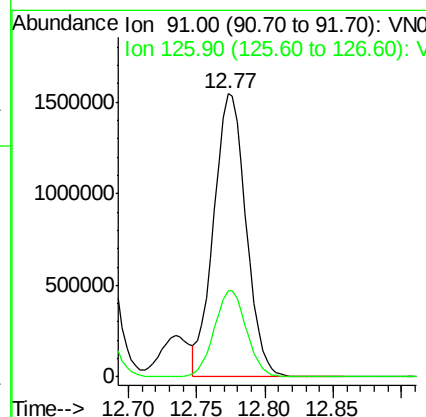
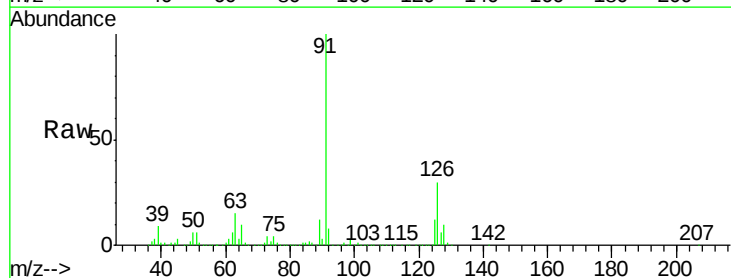
RT: 12.77 min Scan# 3421

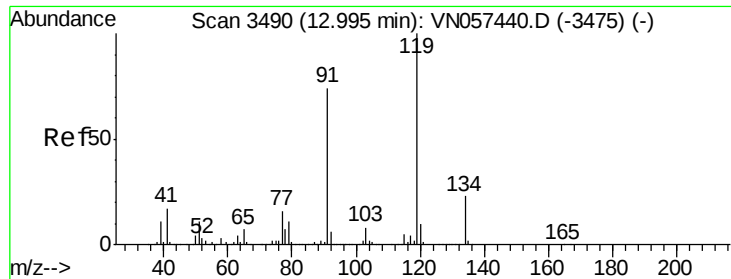
Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Tgt Ion:	91	Resp:	2546103
Ion Ratio	Lower	Upper	
91	100		
126	30.4	15.0	45.0





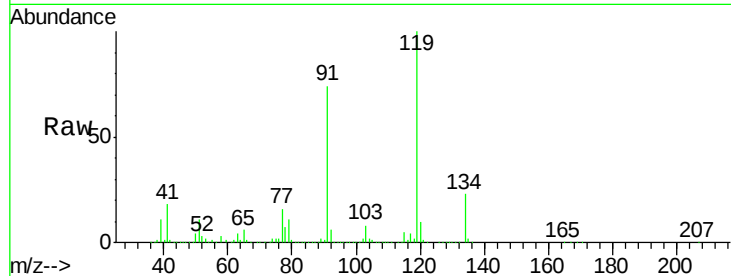
#83
tert-Butylbenzene
Concen: 117.541 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

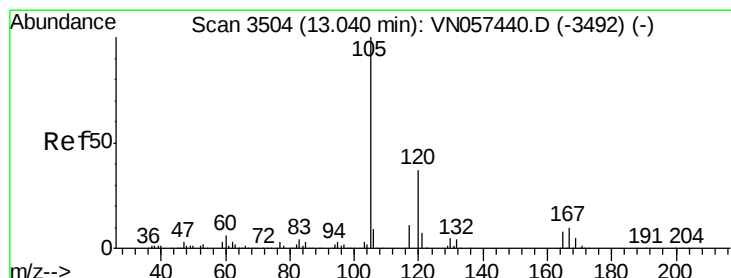
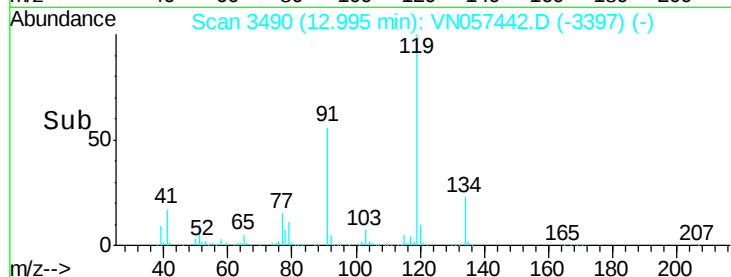
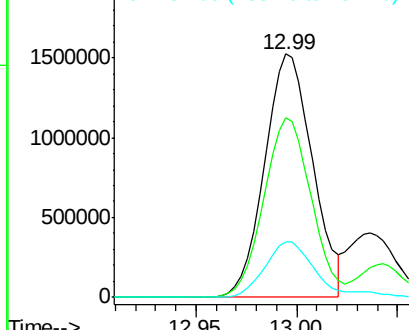
Tot Ion:119 Resp: 2514222
Ion Ratio Lower Upper
119 100
91 72.8 37.0 111.0
134 24.4 12.2 36.6

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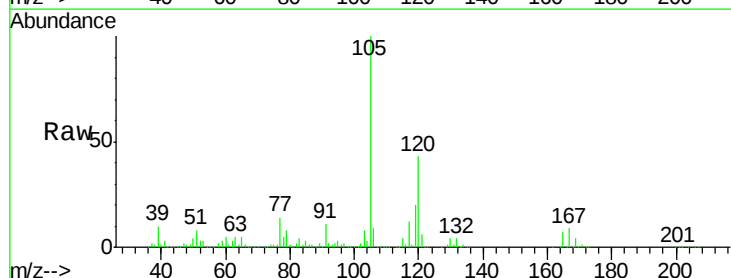


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

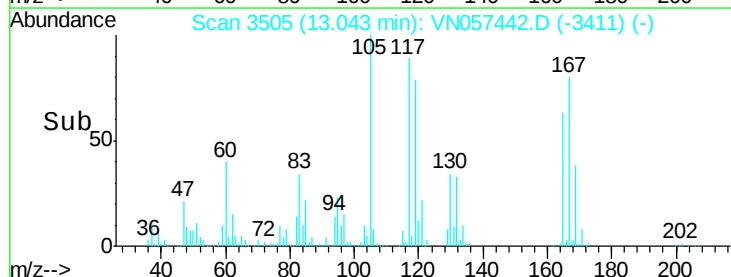
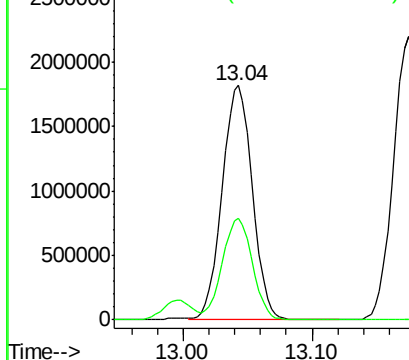


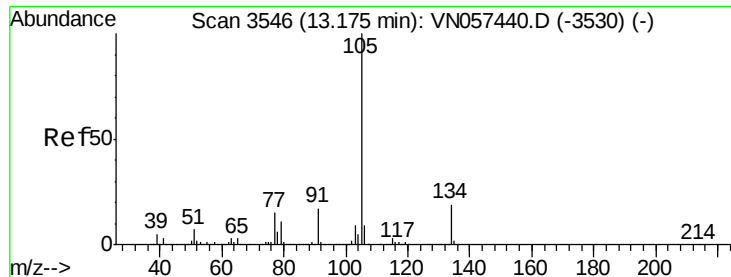
#84
1,2,4-Trimethylbenzene
Concen: 136.192 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion:105 Resp: 2940320
Ion Ratio Lower Upper
105 100
120 43.3 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 134.835 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 3487737

Ion Ratio Lower Upper

105 100

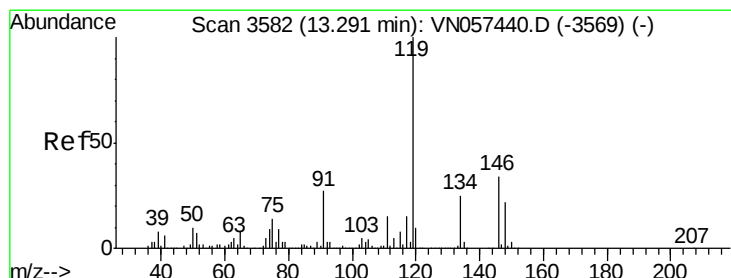
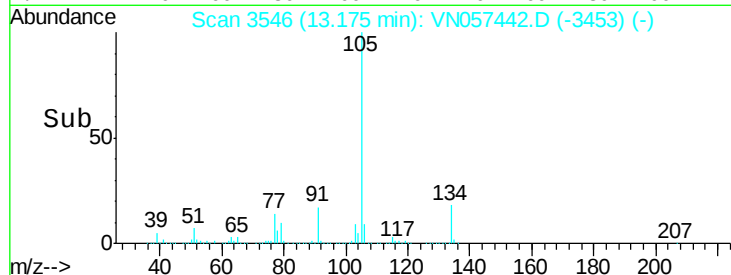
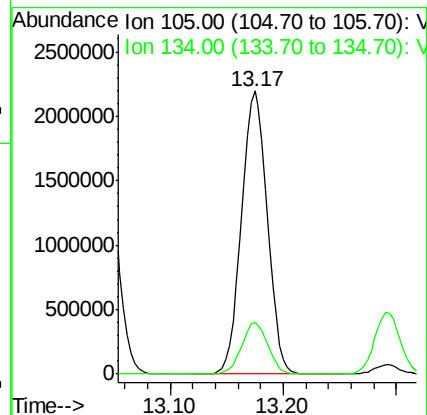
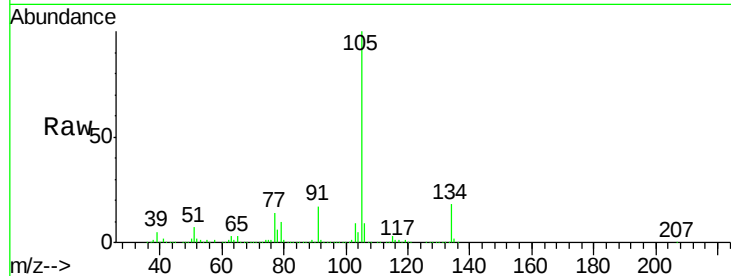
134 18.3 9.3 27.9

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#86

p-Isopropyltoluene

Concen: 135.738 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

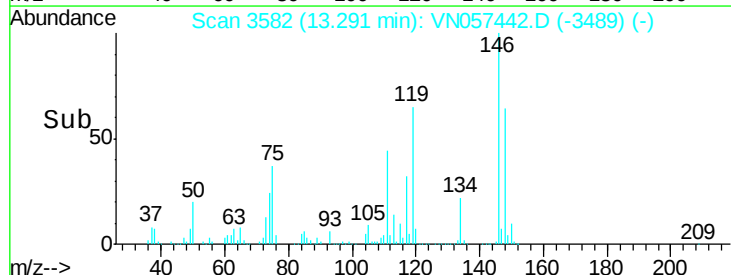
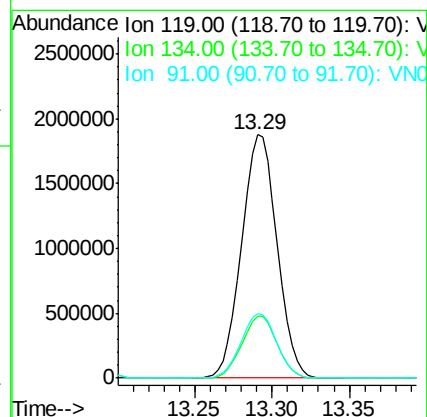
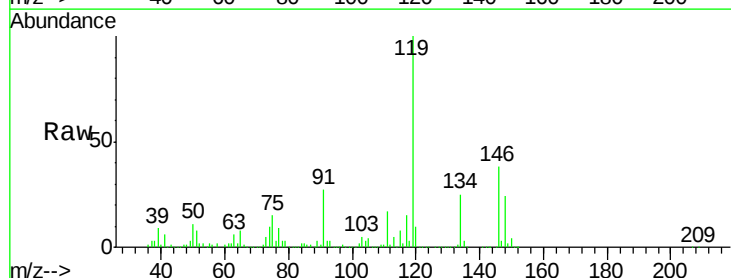
Tgt Ion:119 Resp: 2980312

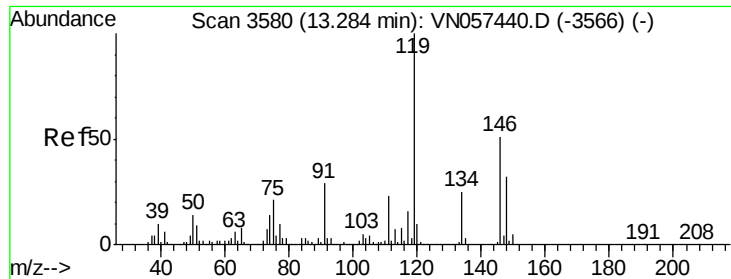
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.1

91 26.6 13.9 41.6





#87

1,3-Dichlorobenzene

Concen: 130.105 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampled :

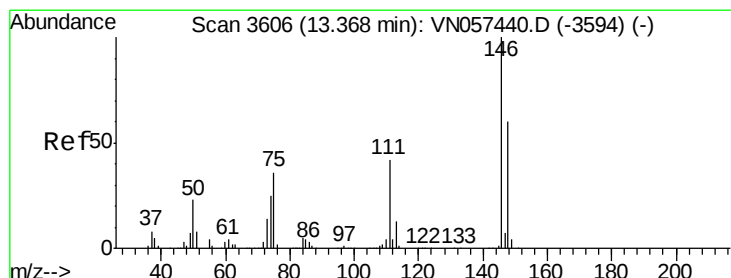
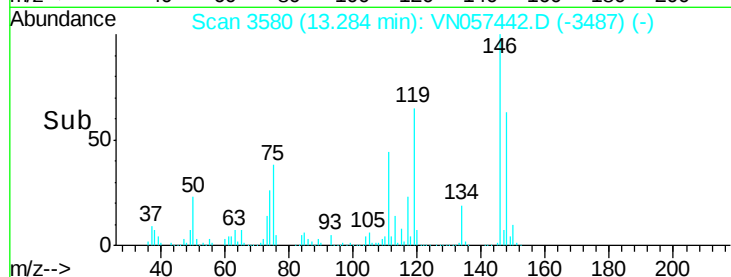
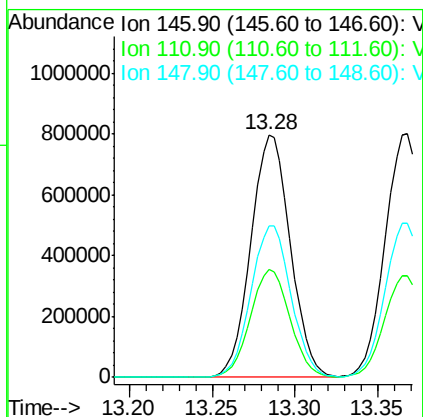
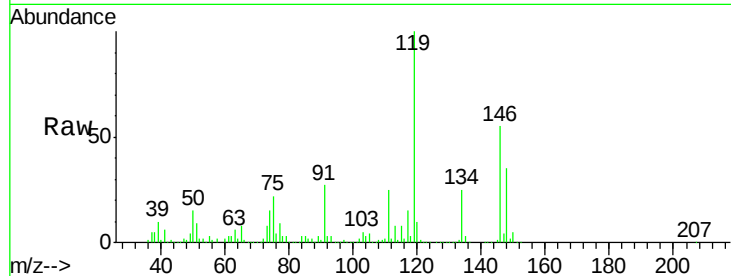
VSTDIC150

Tot Ion:146 Resp: 1322311

Ion	Ratio	Lower	Upper
146	100		
111	44.6	22.1	66.1
148	63.6	31.9	95.9

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#88

1,4-Dichlorobenzene

Concen: 135.976 ug/l

RT: 13.37 min Scan# 3606

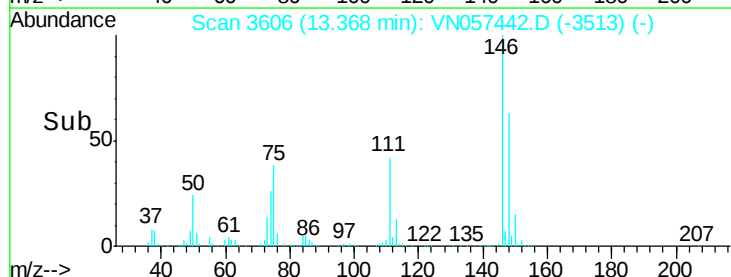
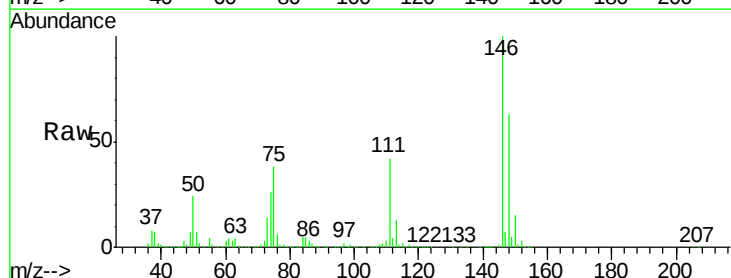
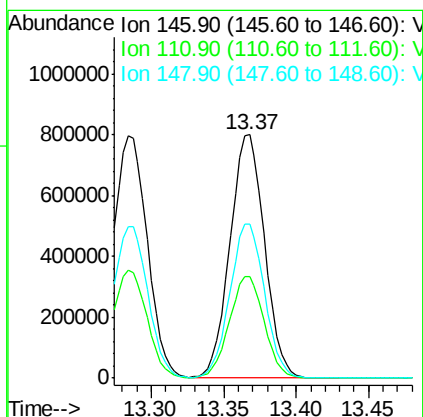
Delta R.T. -0.00 min

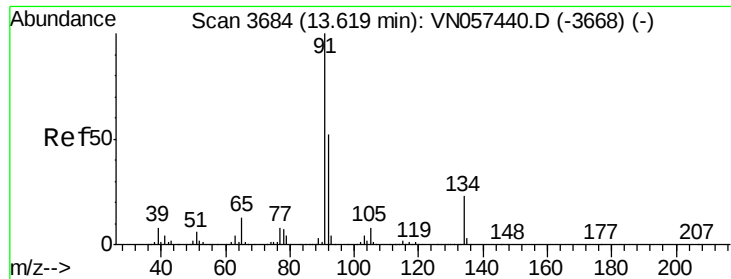
Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Tgt Ion:146 Resp: 1321825

Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.9	65.5
148	63.5	31.1	93.2





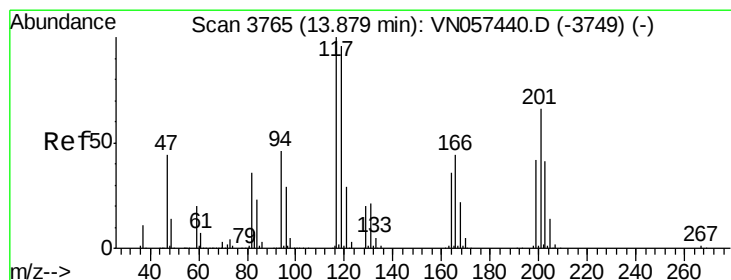
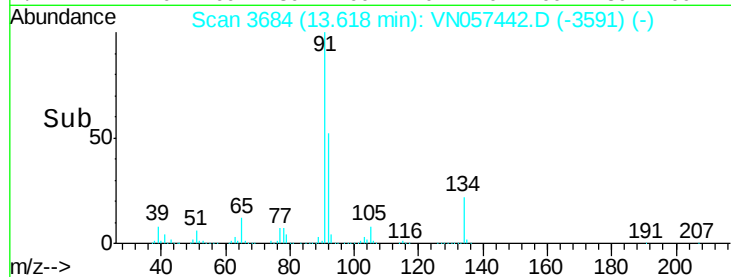
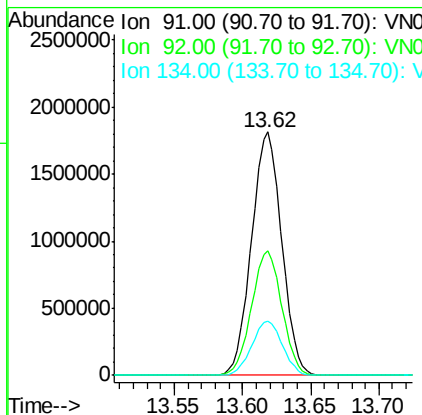
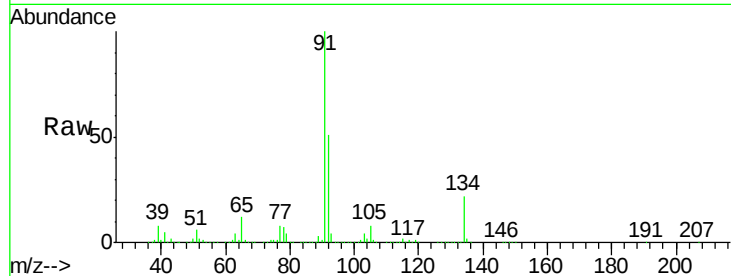
#89
n-Butylbenzene
Concen: 172.492 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 91 Resp: 2785755
Ion Ratio Lower Upper
91 100
92 51.2 25.7 77.0
134 22.6 11.4 34.1

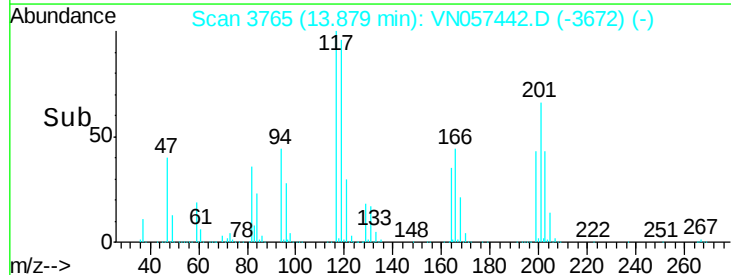
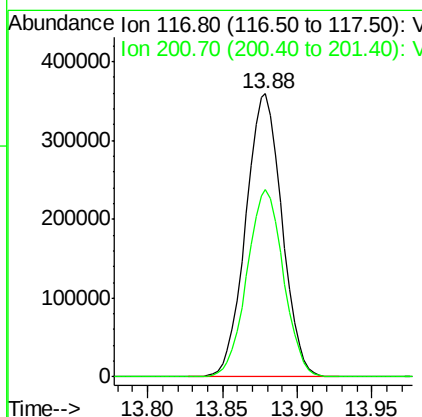
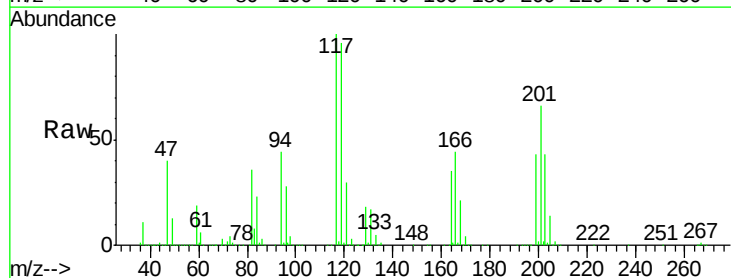
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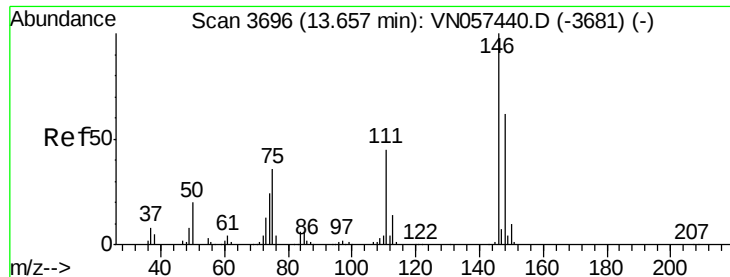
MMDadoda
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#90
Hexachloroethane
Concen: 132.097 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. -0.00 min
Lab File: VN057442.D
Acq: 22 Aug 2019 19:08

Tgt Ion: 117 Resp: 605622
Ion Ratio Lower Upper
117 100
201 66.5 33.1 99.3





#91

1,2-Dichlorobenzene

Concen: 138.047 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:146 Resp: 1311839

Ion Ratio Lower Upper

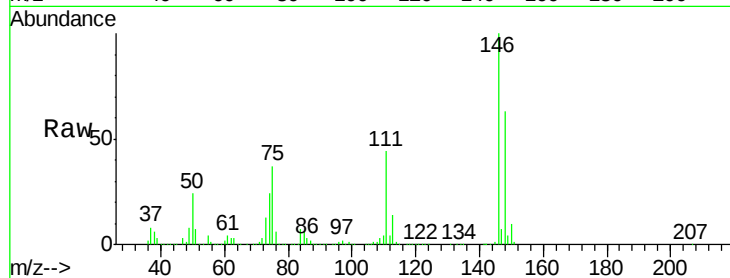
146 100

111 44.3 23.1 69.2

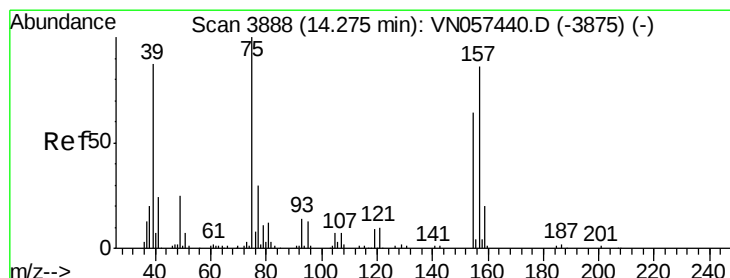
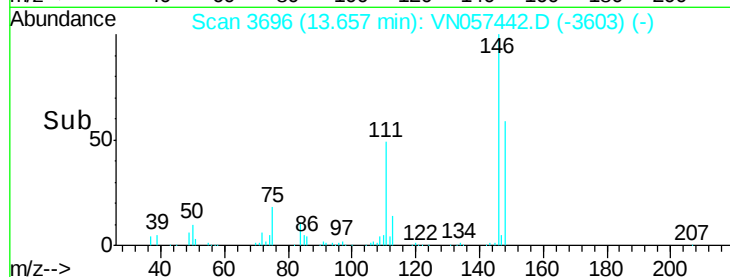
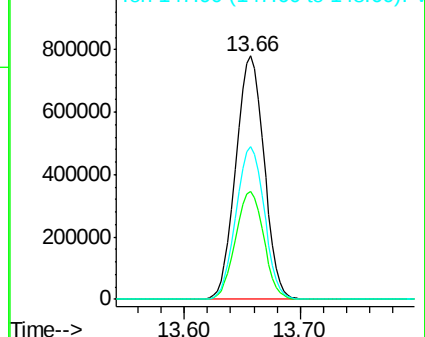
148 62.8 31.8 95.4

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 188.943 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

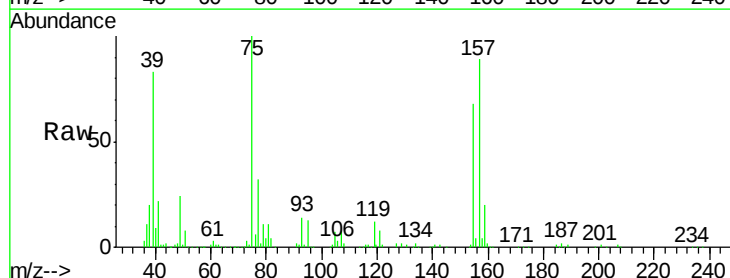
Tgt Ion: 75 Resp: 210366

Ion Ratio Lower Upper

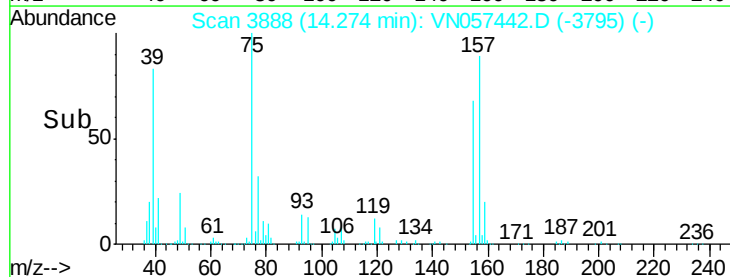
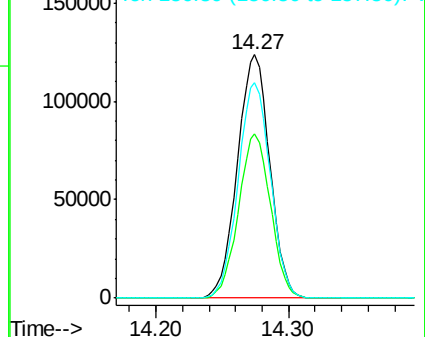
75 100

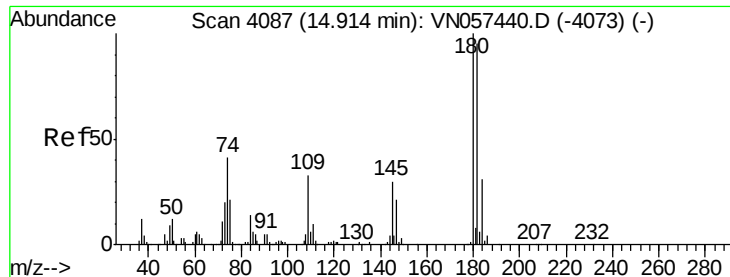
155 66.4 31.6 94.7

157 88.1 43.3 129.8



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





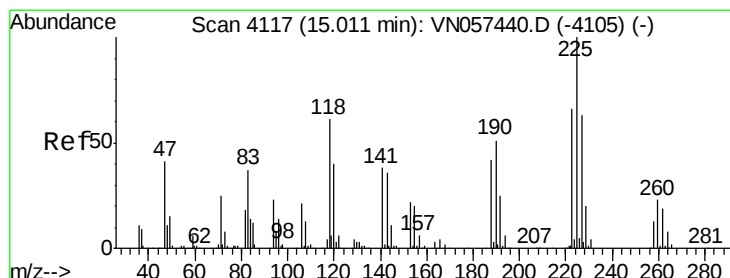
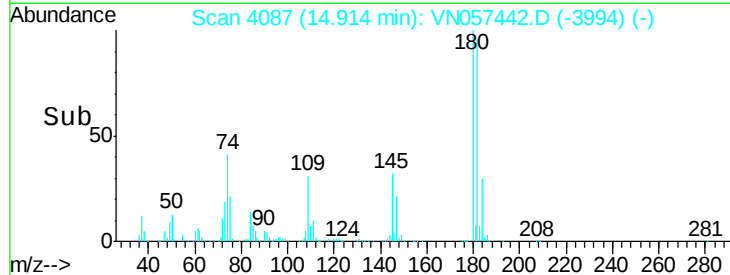
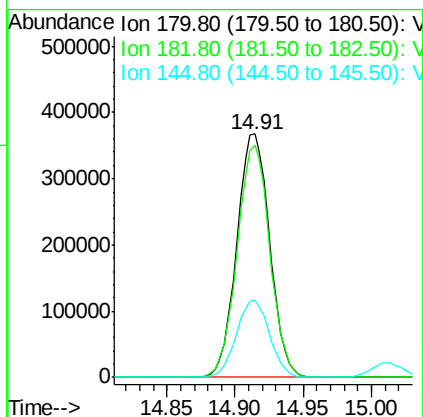
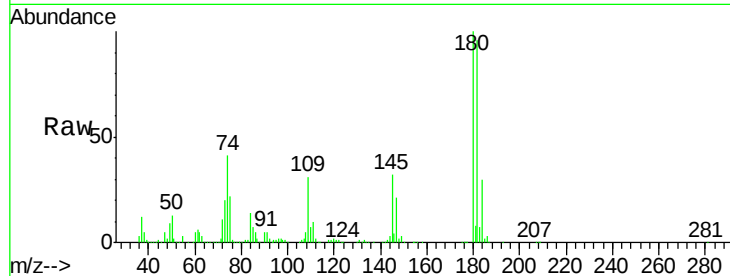
#93
 1,2,4-Trichlorobenzene
 Concen: 193.670 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
180	100	614110		
182	94.9	46.7	140.1	
145	31.9	15.6	46.8	

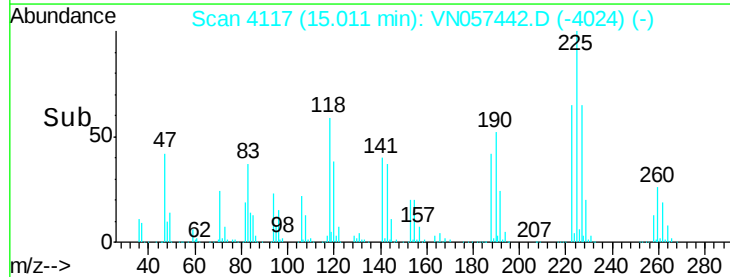
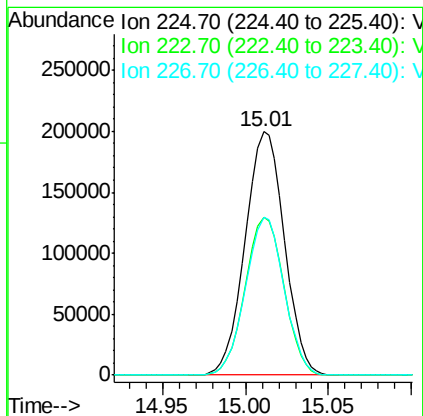
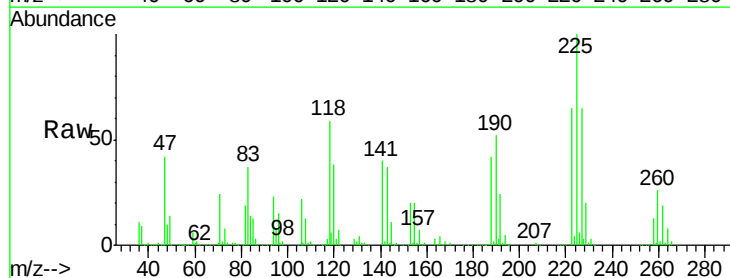
Manual Integrations
 APPROVED

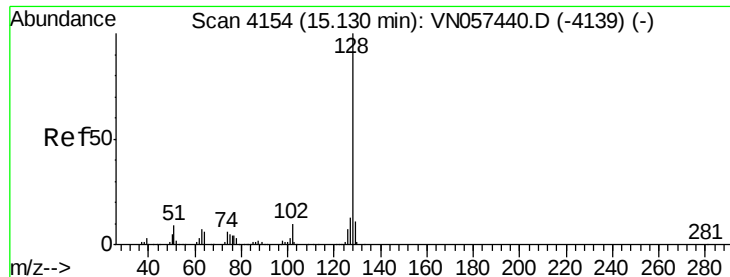
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#94
 Hexachlorobutadiene
 Concen: 78.460 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN057442.D
 Acq: 22 Aug 2019 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	329083		
223	64.0	32.0	96.2	
227	63.7	31.5	94.5	





#95

Naphthalene

Concen: 258.460 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Instrument :

MSVOA_N

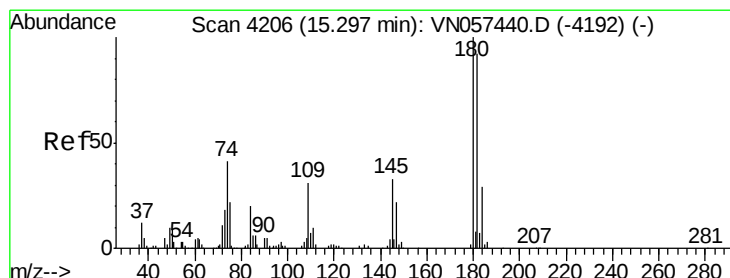
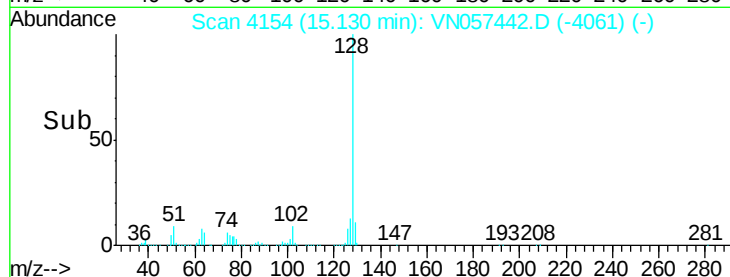
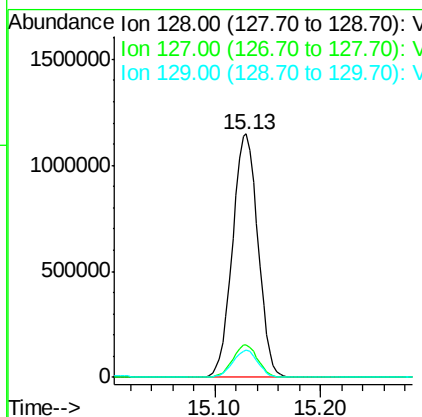
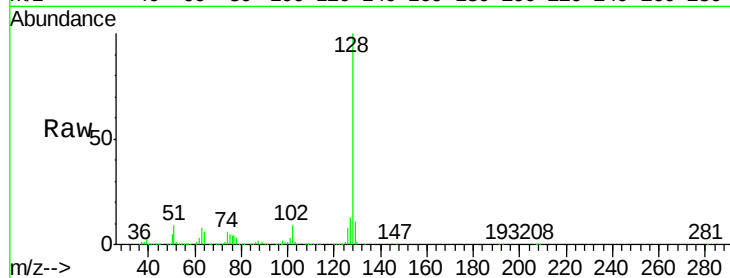
ClientSampleId :

VSTDIC150

Tot Ion:	128	Resp:	1909053
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	11.0	8.6	13.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 200.085 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN057442.D

Acq: 22 Aug 2019 19:08

Tgt Ion:	180	Resp:	609872
Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.7	140.1
145	33.2	16.8	50.3

