

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050639.D
 Acq On : 15 Aug 2018 8:26
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 1:18:21 PM

Quant Time: Aug 16 01:44:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	694246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	958096	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	887834	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	460297	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	395466	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	
35) Dibromofluoromethane	7.59	113	373243	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
50) Toluene-d8	10.09	98	1424657	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	
62) 4-Bromofluorobenzene	12.40	95	474183	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	352783	45.07	ug/l	99
3) Chloromethane	2.06	50	446607	46.80	ug/l	99
4) Vinyl Chloride	2.19	62	465111	44.73	ug/l	99
5) Bromomethane	2.56	94	270226	48.29	ug/l	97
6) Chloroethane	2.70	64	281791	48.73	ug/l	100
7) Trichlorofluoromethane	3.01	101	610957	44.78	ug/l	100
8) Diethyl Ether	3.41	74	202319	44.58	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	383700	46.51	ug/l	99
10) Methyl Iodide	3.95	142	278076	47.78	ug/l	100
11) Tert butyl alcohol	4.79	59	102190	213.86	ug/l #	72
12) 1,1-Dichloroethene	3.73	96	342318	45.44	ug/l	97
13) Acrolein	3.61	56	36389	197.79	ug/l	99
14) Allyl chloride	4.32	41	543541	46.39	ug/l	100
15) Acrylonitrile	4.99	53	584662	222.78	ug/l	99
16) Acetone	3.82	43	568496	260.24	ug/l	98
17) Carbon Disulfide	4.05	76	1079967	45.56	ug/l	100
18) Methyl Acetate	4.33	43	277117	44.99	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	901391	47.02	ug/l	100
20) Methylene Chloride	4.55	84	399729	48.01	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	378812	46.38	ug/l	99
22) Diisopropyl ether	5.95	45	1170058	48.70	ug/l	98
23) Vinyl Acetate	5.90	43	3821187	243.15	ug/l	99
24) 1,1-Dichloroethane	5.85	63	698134	44.91	ug/l	99
25) 2-Butanone	6.84	43	838450	233.68	ug/l	99
26) 2,2-Dichloropropane	6.82	77	567883	54.58	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	420900	46.28	ug/l	98
28) Bromochloromethane	7.19	49	331998	46.93	ug/l	99
29) Tetrahydrofuran	7.21	42	428816	228.89	ug/l	100
30) Chloroform	7.37	83	701440	44.53	ug/l	100
31) Cyclohexane	7.65	56	637367	48.03	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	599563	45.22	ug/l	100
36) 1,1-Dichloropropene	7.79	75	548837	51.46	ug/l	100
37) Ethyl Acetate	6.93	43	299784	49.73	ug/l	100
38) Carbon Tetrachloride	7.77	117	540750	48.87	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	618555	56.02	ug/l	98
40) Benzene	8.04	78	1643350	50.65	ug/l	100
41) Methacrylonitrile	7.17	41	160610	49.28	ug/l	99
42) 1,2-Dichloroethane	8.12	62	485722	48.84	ug/l	100
43) Isopropyl Acetate	8.17	43	519814	47.31	ug/l	98
44) Trichloroethene	8.84	130	429118	49.37	ug/l	99
45) 1,2-Dichloropropane	9.12	63	425550	49.27	ug/l	100
46) Dibromomethane	9.21	93	246647	48.36	ug/l	98
47) Bromodichloromethane	9.40	83	538493	49.40	ug/l	99
48) Methyl methacrylate	9.20	41	263384	47.64	ug/l	98
49) 1,4-Dioxane	9.20	88	70472	967.64	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1843658	248.12	ug/l	100
52) Toluene	10.16	92	1010366	52.15	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	535212	52.71	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	629225	54.02	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	350469	48.43	ug/l	99
56) Ethyl methacrylate	10.43	69	428161	46.51	ug/l	98
57) 1,3-Dichloropropane	10.71	76	594599	50.11	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1024311	232.39	ug/l	100
59) 2-Hexanone	10.75	43	1226976	255.85	ug/l	99
60) Dibromochloromethane	10.90	129	405079	50.71	ug/l	99
61) 1,2-Dibromoethane	11.01	107	346056	50.21	ug/l	99
64) Tetrachloroethene	10.63	164	402859	48.86	ug/l	97
65) Chlorobenzene	11.43	112	1107796	50.14	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	407450	49.19	ug/l	100
67) Ethyl Benzene	11.51	91	1919863	53.81	ug/l	100
68) m/p-Xylenes	11.62	106	1488282	109.07	ug/l	100
69) o-Xylene	11.95	106	696679	53.54	ug/l	99
70) Styrene	11.96	104	1161526	50.19	ug/l	99
71) Bromoform	12.13	173	271048	49.35	ug/l #	99
73) Isopropylbenzene	12.25	105	1874191	52.11	ug/l	100
74) N-amyl acetate	12.07	43	446412	47.71	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	425858	51.05	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	337981m	45.35	ug/l	
77) Bromobenzene	12.53	156	468308	47.96	ug/l	99
78) n-propylbenzene	12.59	91	2171546	54.15	ug/l	100
79) 2-Chlorotoluene	12.67	91	1270901	50.83	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1559964	54.18	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	105545	50.98	ug/l	99
82) 4-Chlorotoluene	12.77	91	1297850	52.53	ug/l	100
83) tert-Butylbenzene	12.99	119	1305852	52.24	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1586361	54.89	ug/l	100
85) sec-Butylbenzene	13.17	105	1760852	53.91	ug/l	100
86) p-Isopropyltoluene	13.29	119	1549672	55.99	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	835598	50.27	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	811463	49.19	ug/l	100
89) n-Butylbenzene	13.62	91	1251353	55.99	ug/l	99
90) Hexachloroethane	13.88	117	262840	47.23	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	793129	48.91	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	57414	44.74	ug/l	98

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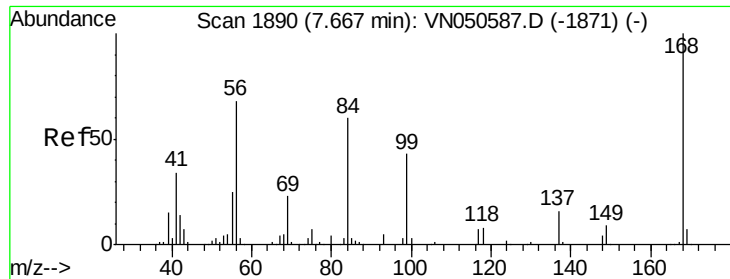
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	394580	47.55	ug/l	99
94) Hexachlorobutadiene	15.01	225	249152	50.11	ug/l	98
95) Naphthalene	15.13	128	758221	43.38	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	371296	47.85	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 694246

Ion Ratio Lower Upper

168 100

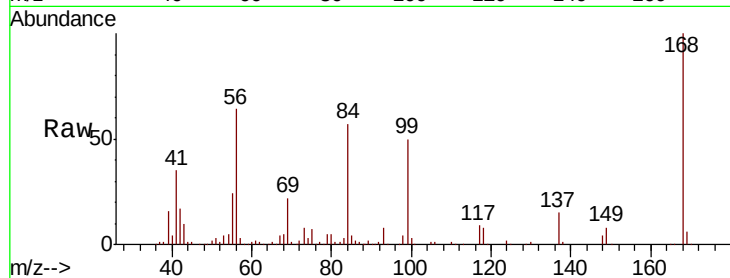
99 49.6 40.8 61.2

Manual Integrations

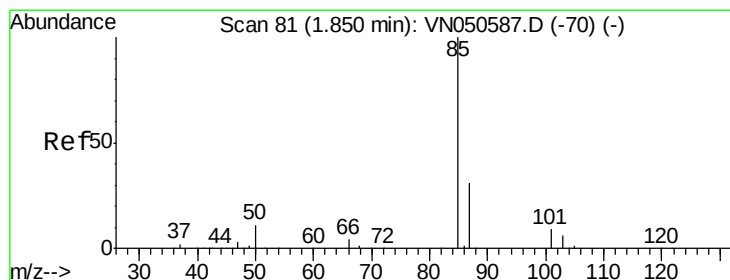
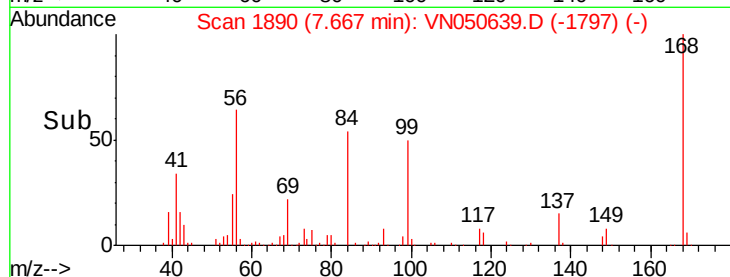
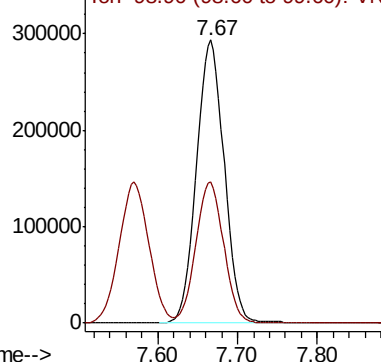
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Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)



#2

Dichlorodifluoromethane

Concen: 45.07 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050639.D

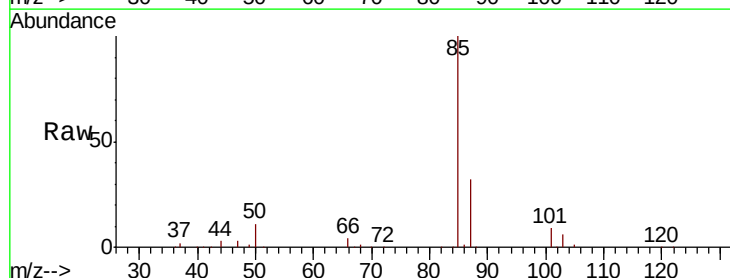
Acq: 15 Aug 2018 8:26

Tgt Ion: 85 Resp: 352783

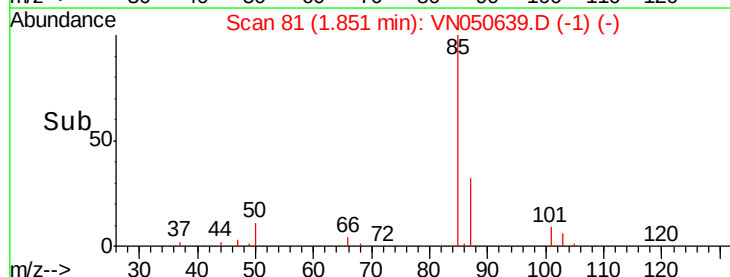
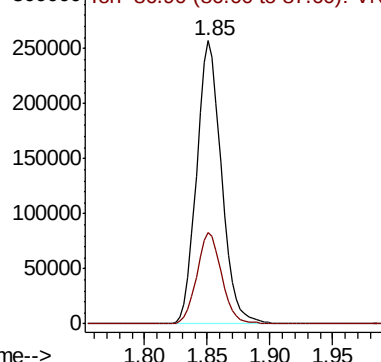
Ion Ratio Lower Upper

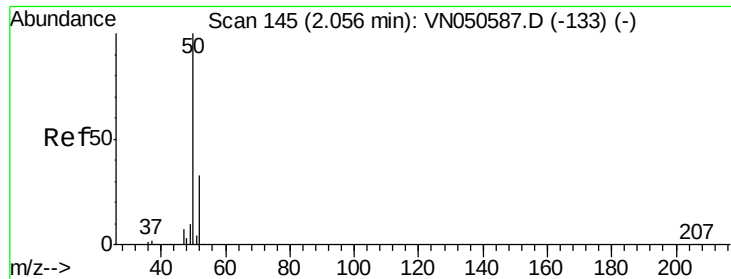
85 100

87 32.3 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VN050587.D (-70) (-)





#3

Chloromethane

Concen: 46.80 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 446607

Ion Ratio Lower Upper

50 100

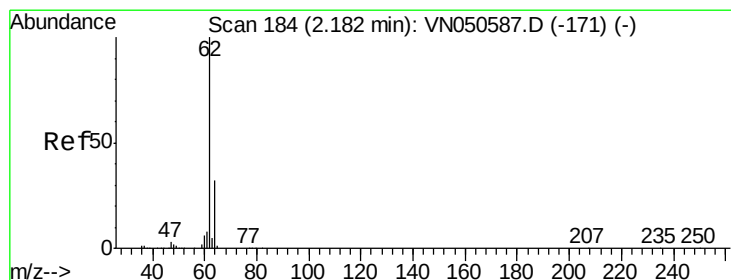
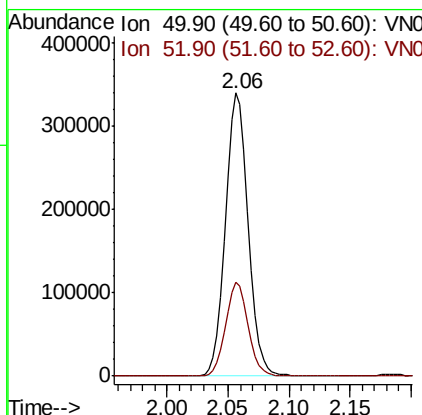
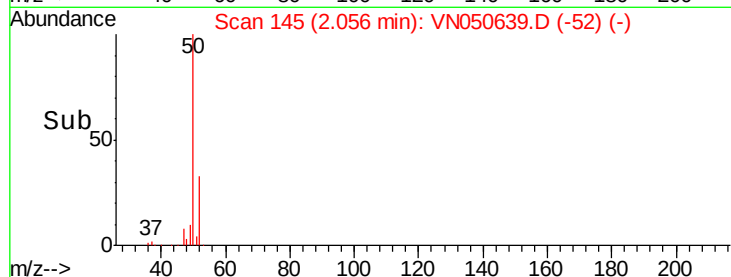
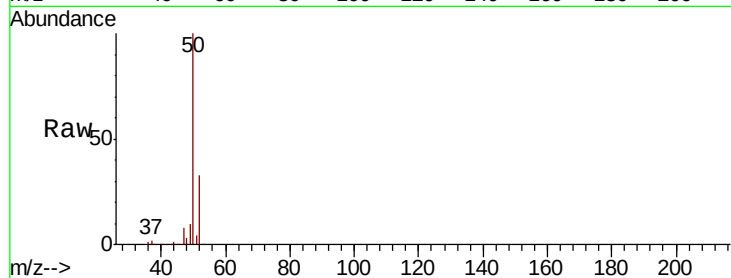
52 33.2 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 44.73 ug/l

RT: 2.19 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN050639.D

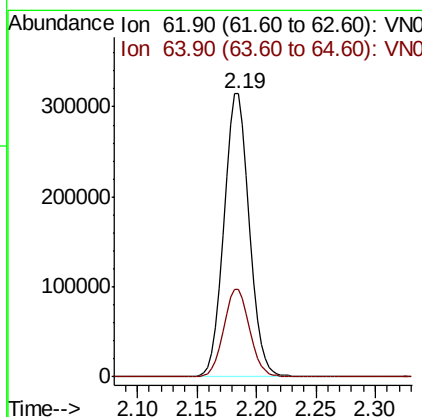
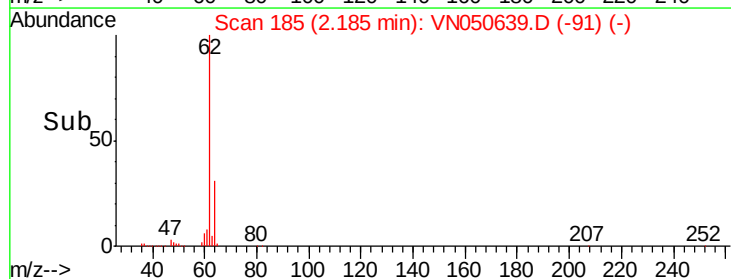
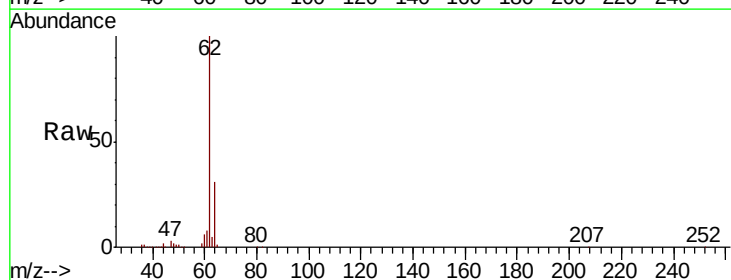
Acq: 15 Aug 2018 8:26

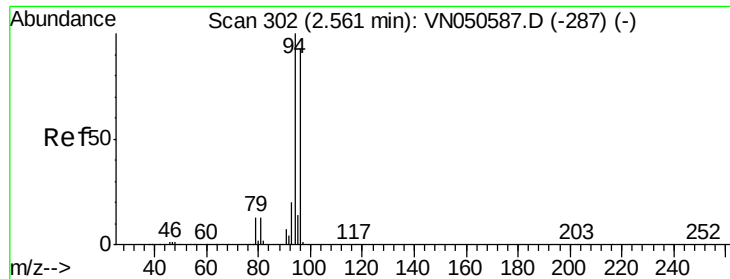
Tgt Ion: 62 Resp: 465111

Ion Ratio Lower Upper

62 100

64 30.9 25.2 37.8





#5

Bromomethane

Concen: 48.29 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 270226

Ion Ratio Lower Upper

94 100

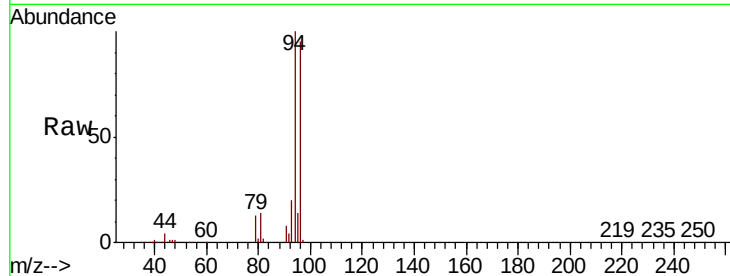
96 94.9 74.0 111.0

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

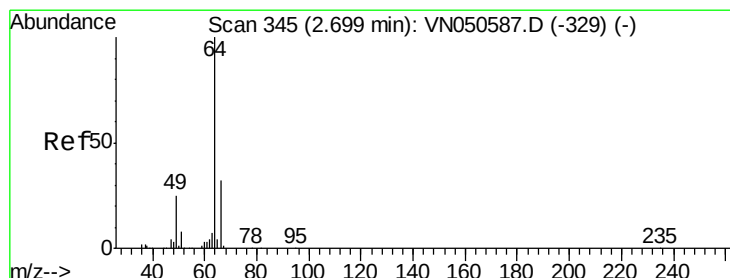
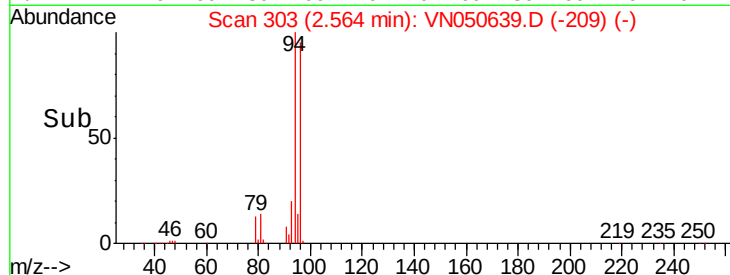
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 48.73 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050639.D

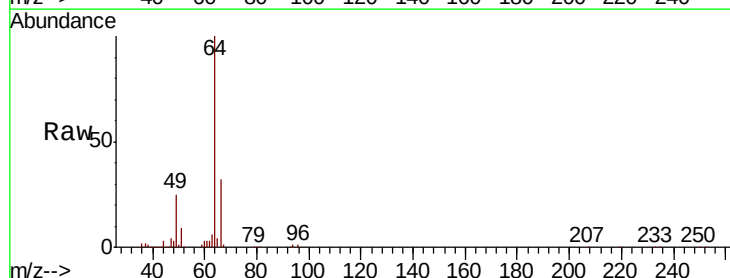
Acq: 15 Aug 2018 8:26

Tgt Ion: 64 Resp: 281791

Ion Ratio Lower Upper

64 100

66 32.1 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

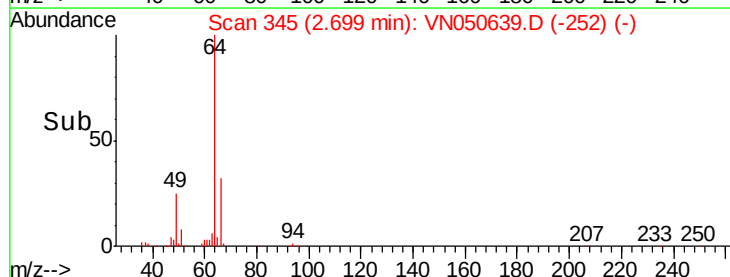
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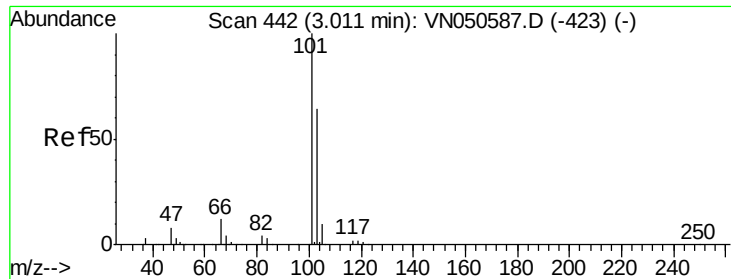
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Time-->





#7

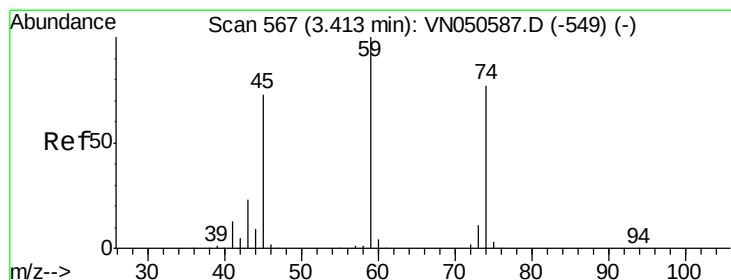
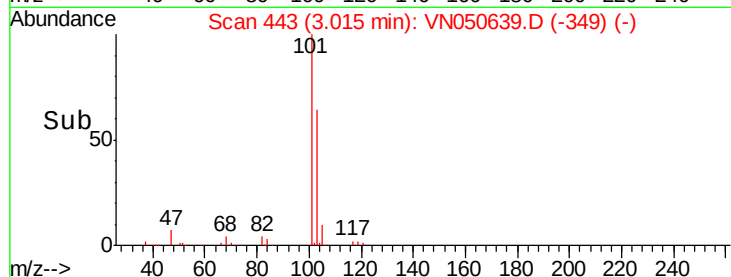
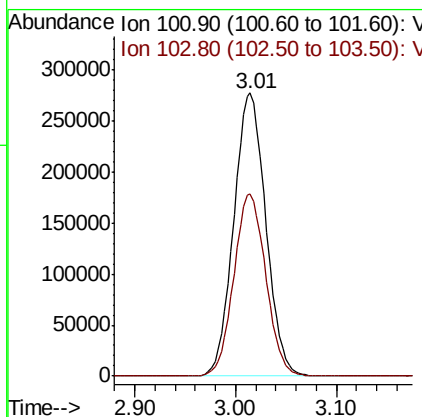
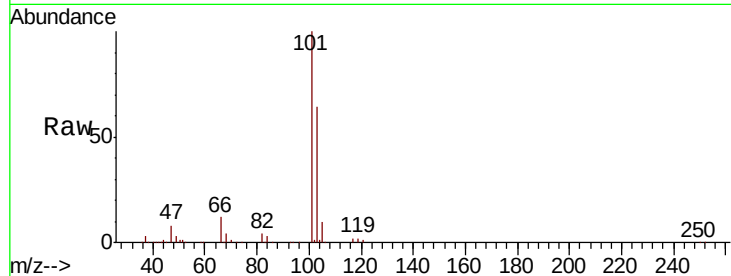
Trichlorofluoromethane
 Concen: 44.78 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
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 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.0

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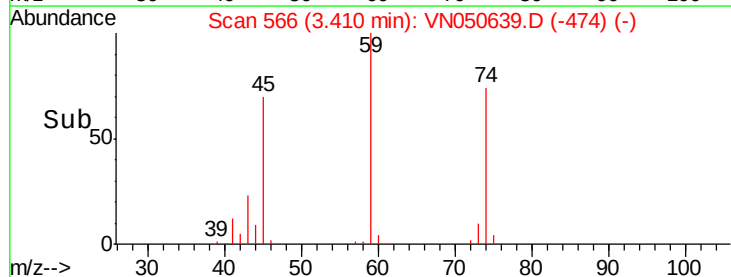
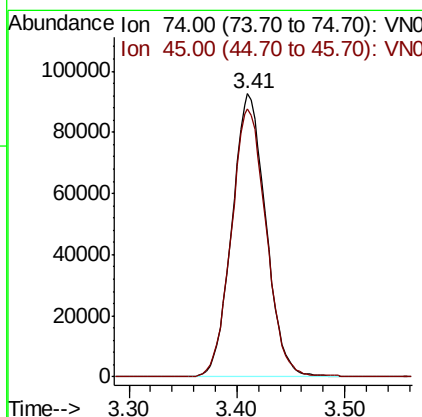
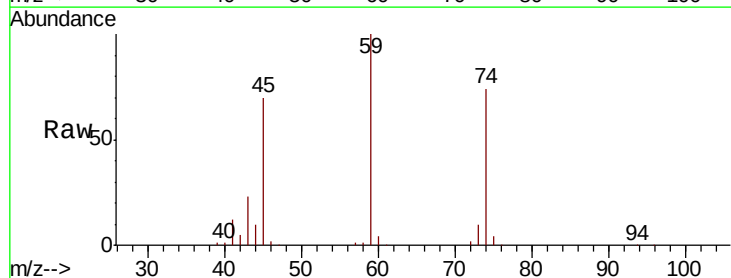
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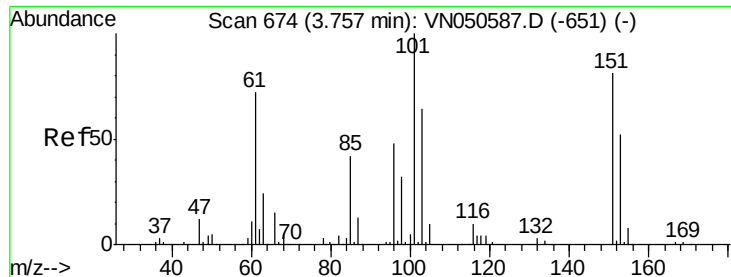


#8

Diethyl Ether
 Concen: 44.58 ug/l
 RT: 3.41 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.7	48.0	144.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.51 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

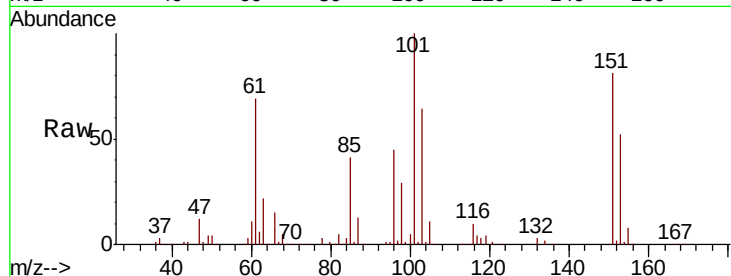
ClientSampleId :

VSTDCCC050

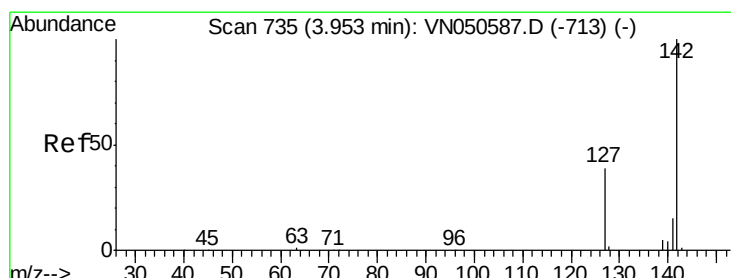
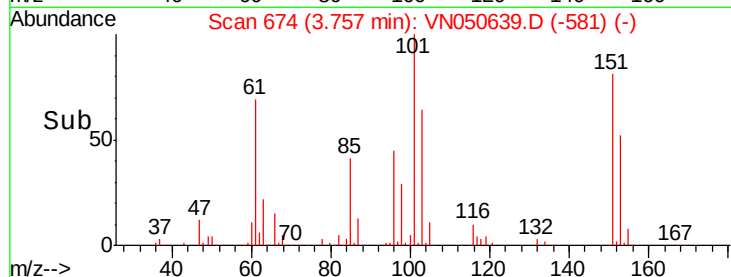
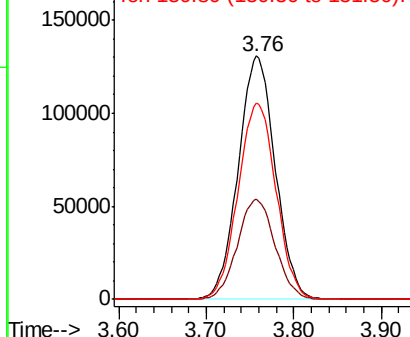
Tot Ion:	101	Resp:	383700
Ion Ratio	Lower	Upper	
101	100		
85	41.9	33.4	50.0
151	82.7	66.6	100.0

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



#10

Methyl Iodide

Concen: 47.78 ug/l

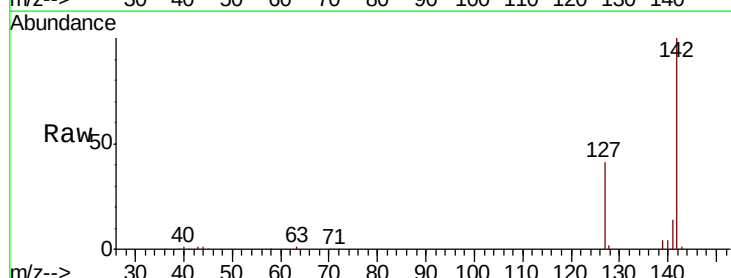
RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

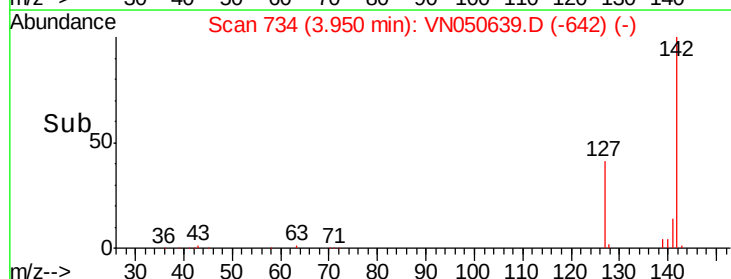
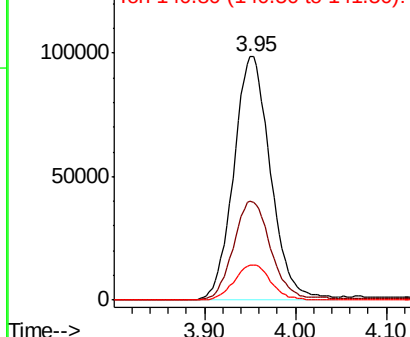
Lab File: VN050639.D

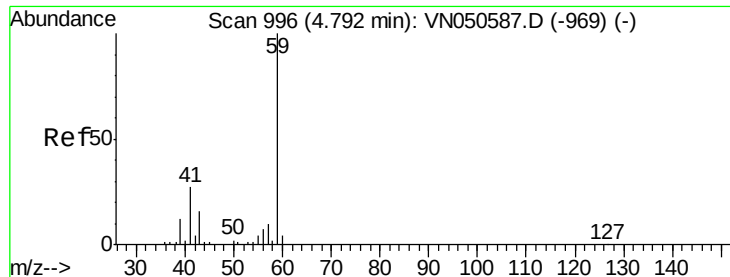
Acq: 15 Aug 2018 8:26

Tgt Ion:	142	Resp:	278076
Ion Ratio	Lower	Upper	
142	100		
127	41.0	32.6	49.0
141	14.4	11.5	17.3



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





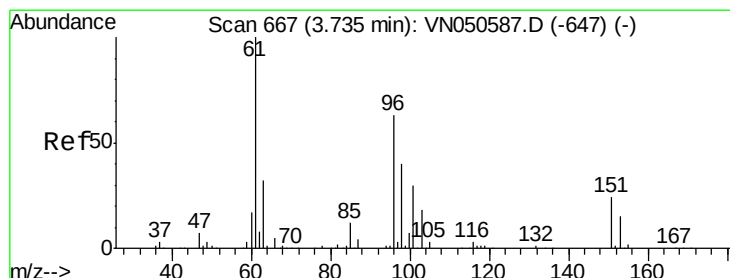
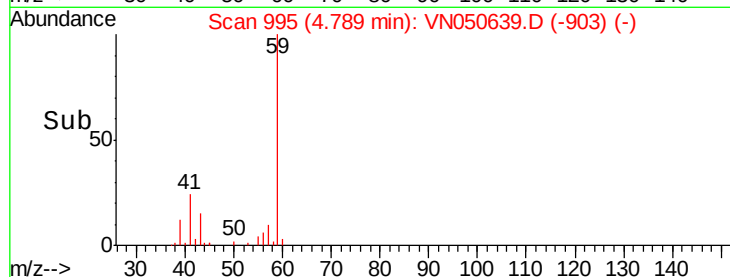
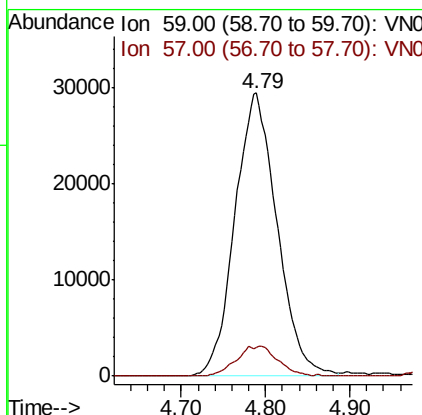
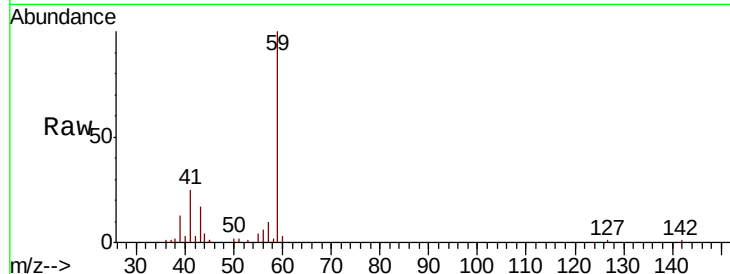
#11
Tert butyl alcohol
Concen: 213.86 ug/l
RT: 4.79 min Scan# 995
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.4	12.6#

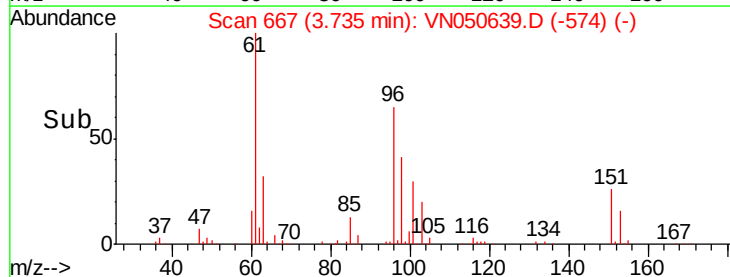
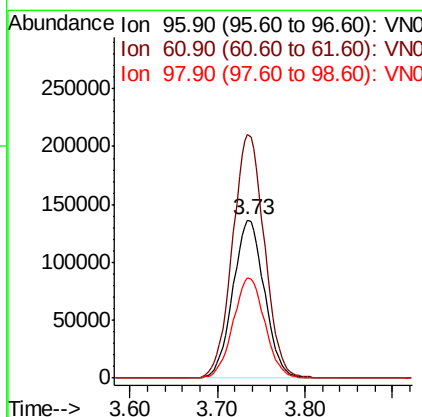
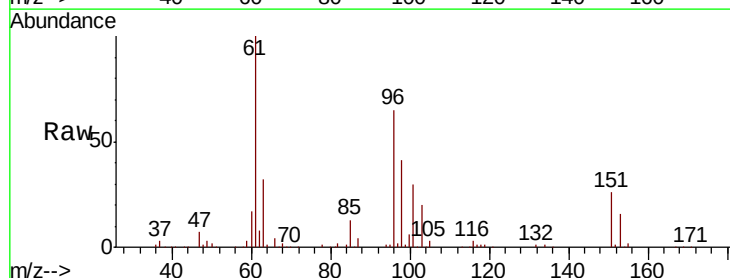
Manual Integrations
APPROVED

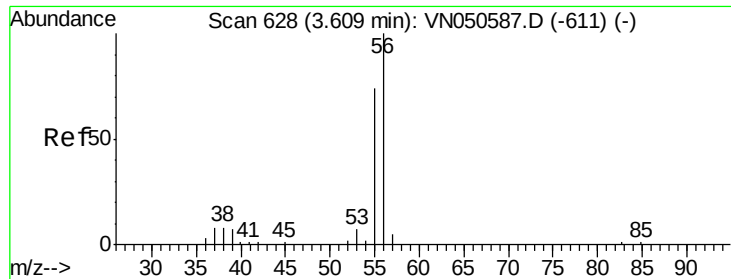
MMDadoda
8/16/2018 1:18:21 PM



#12
1,1-Dichloroethene
Concen: 45.44 ug/l
RT: 3.73 min Scan# 667
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.2	126.9	190.3
98	63.3	51.1	76.7





#13

Acrolein

Concen: 197.79 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 36389

Ion Ratio Lower Upper

56 100

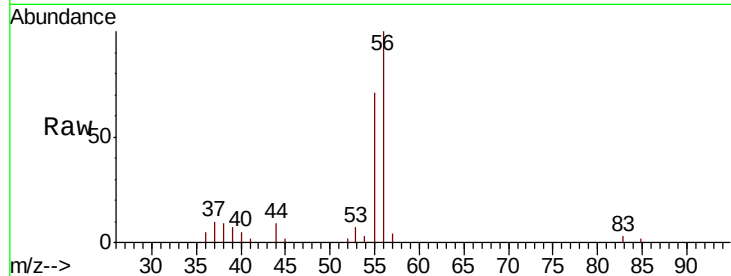
55 71.0 56.3 84.5

Manual Integrations

APPROVED

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8/16/2018 1:18:21 PM



Abundance Ion 56.00 (55.70 to 56.70): VN050639.D (-535) (-)

Ion 55.00 (54.70 to 55.70): VN050639.D (-535) (-)

15000

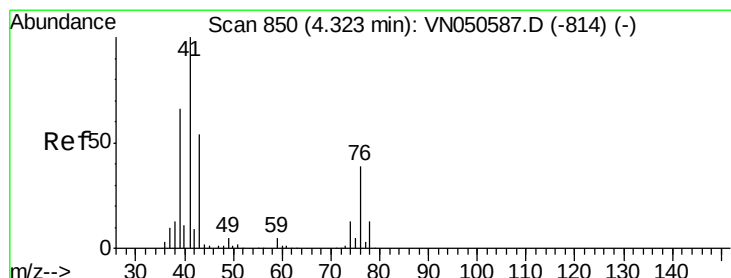
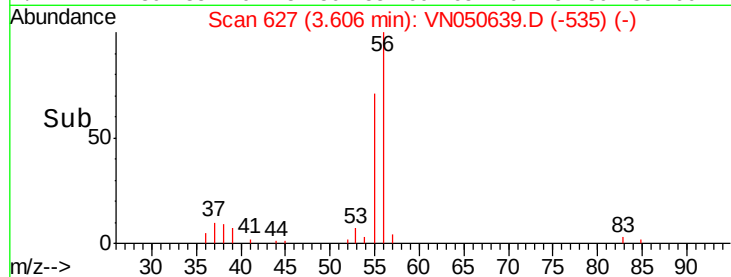
10000

5000

0

3.50 3.55 3.60 3.65 3.70

Time-->



#14

Allyl chloride

Concen: 46.39 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

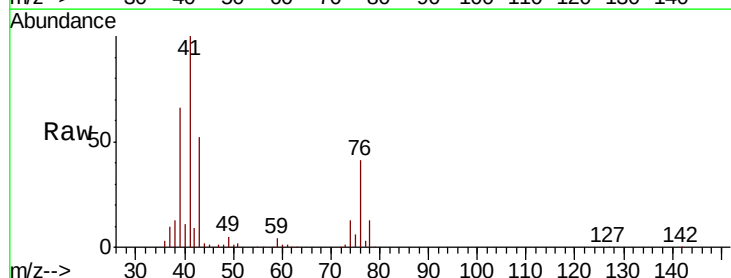
Tgt Ion: 41 Resp: 543541

Ion Ratio Lower Upper

41 100

39 64.1 51.4 77.0

76 37.4 29.4 44.0



Abundance Ion 41.00 (40.70 to 41.70): VN050639.D (-757) (-)

Ion 39.00 (38.70 to 39.70): VN050639.D (-757) (-)

Ion 75.90 (75.60 to 76.60): VN050639.D (-757) (-)

250000

200000

150000

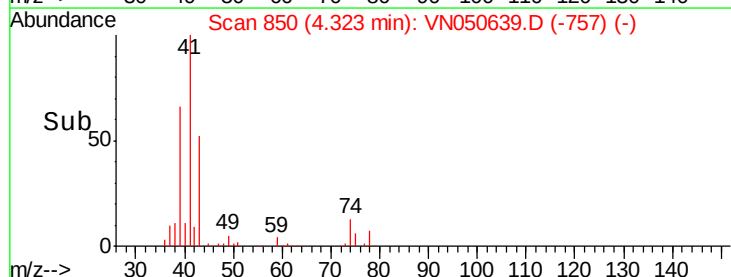
100000

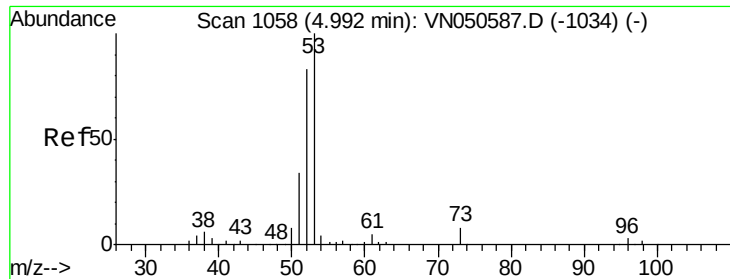
50000

0

4.10 4.20 4.30 4.40 4.50

Time-->





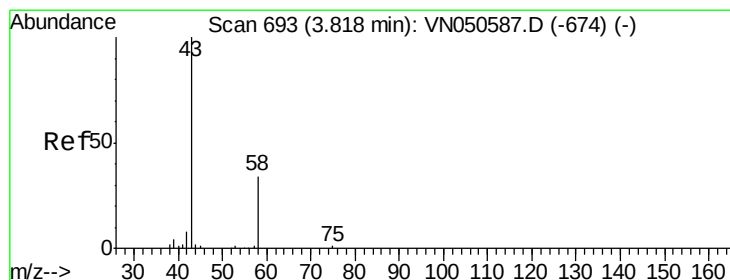
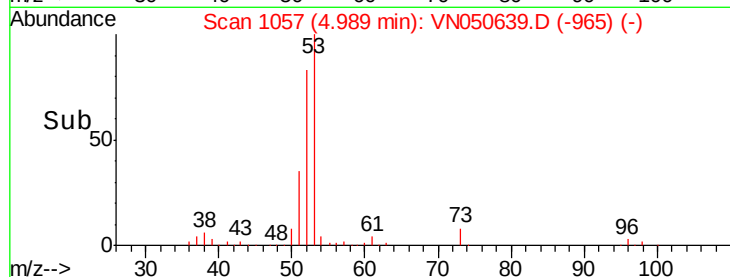
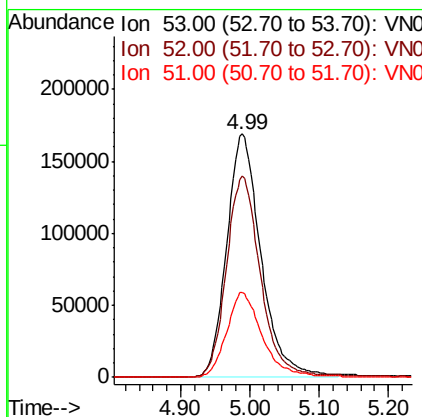
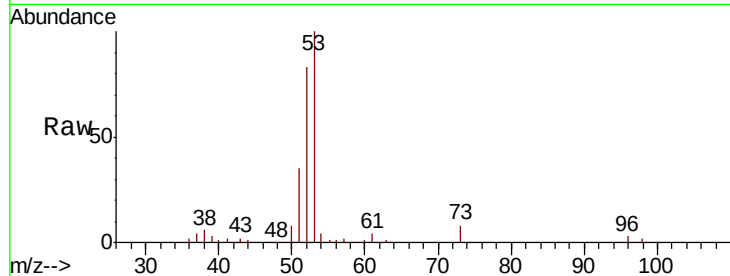
#15
 Acrylonitrile
 Concen: 222.78 ug/l
 RT: 4.99 min Scan# 1057
 Delta R.T. -0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.4	66.2	99.2
51	36.4	28.6	43.0

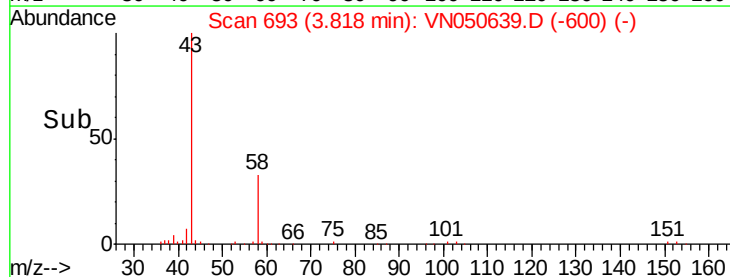
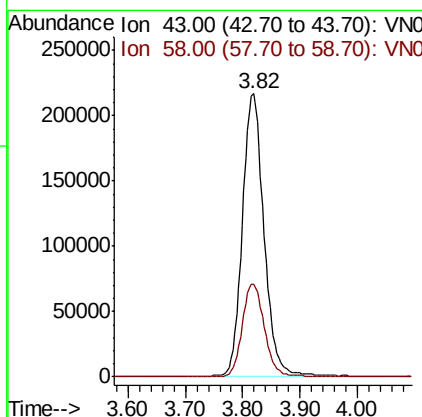
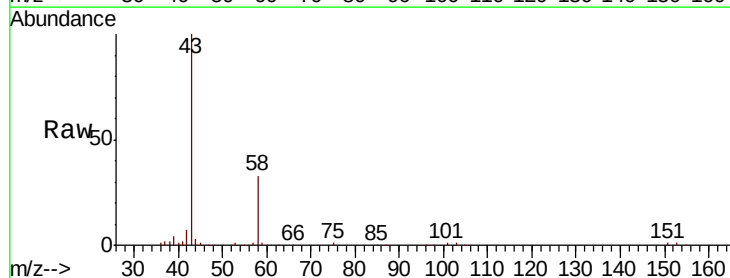
Manual Integrations
 APPROVED

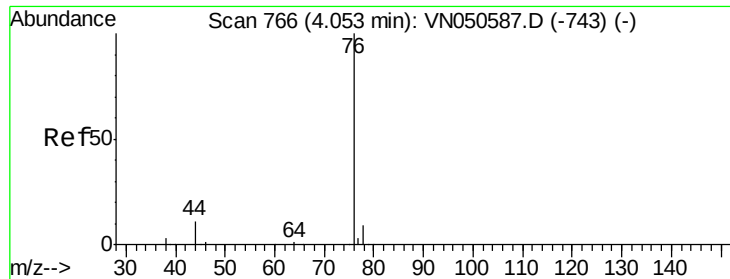
MMDadoda
 8/16/2018 1:18:21 PM



#16
 Acetone
 Concen: 260.24 ug/l
 RT: 3.82 min Scan# 693
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.6	27.1	40.7





#17

Carbon Disulfide

Concen: 45.56 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Tot Ion: 76 Resp: 1079967

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9

Instrument :

MSVOA_N

ClientSampleId :

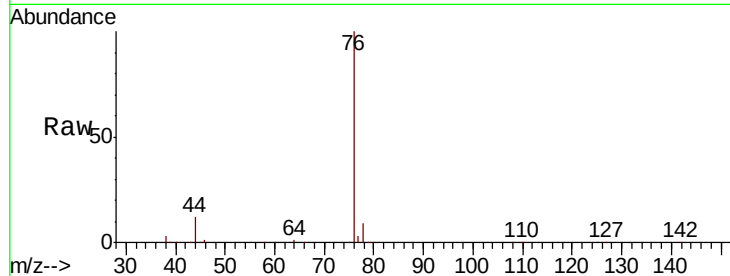
VSTDCCC050

Manual Integrations

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8/16/2018 1:18:21 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

400000

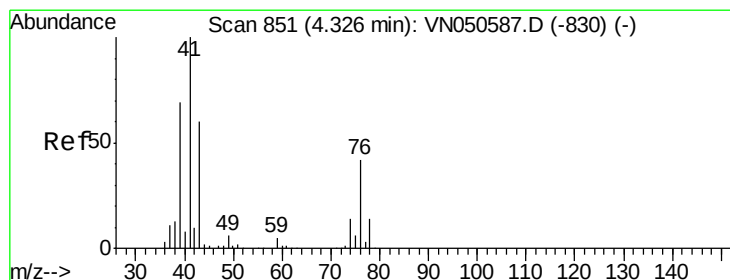
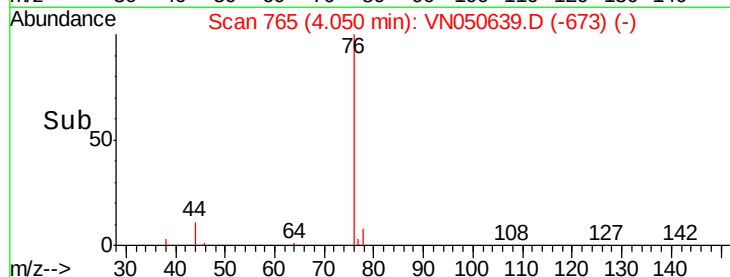
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 44.99 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050639.D

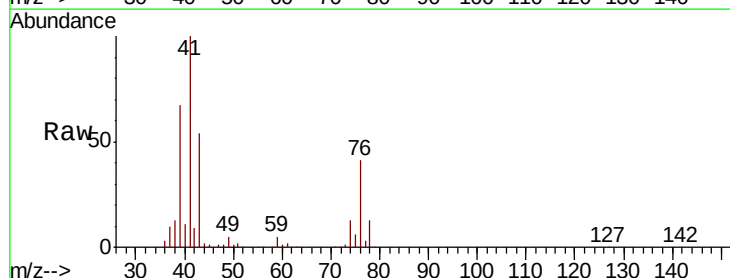
Acq: 15 Aug 2018 8:26

Tgt Ion: 43 Resp: 277117

Ion Ratio Lower Upper

43 100

74 24.7 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

100000

80000

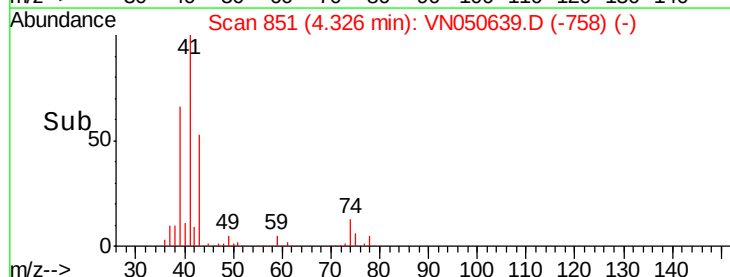
60000

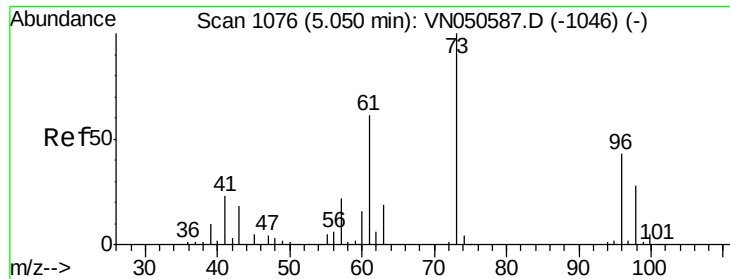
40000

20000

0

Time-->





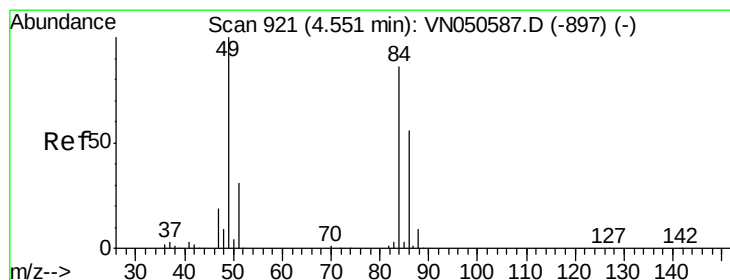
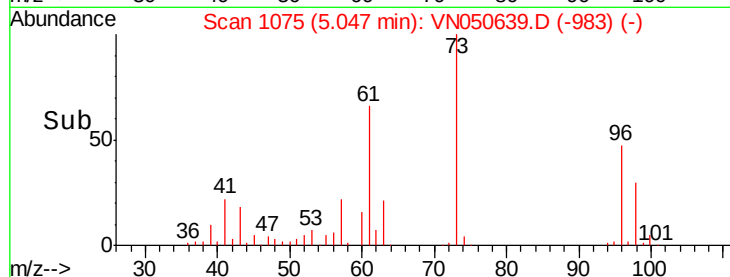
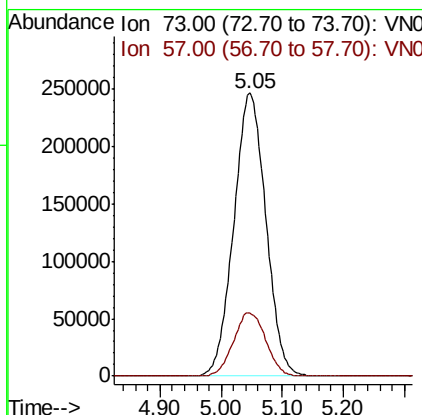
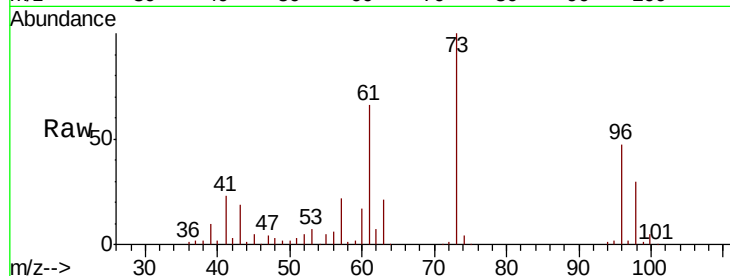
#19
Methvl tert-butvl Ether
Concen: 47.02 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.9	26.9

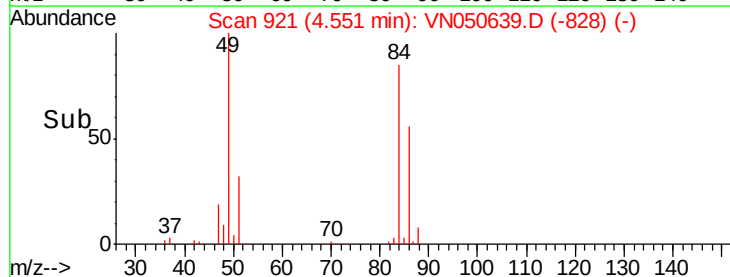
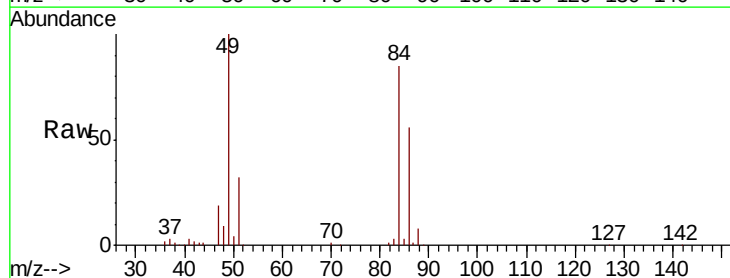
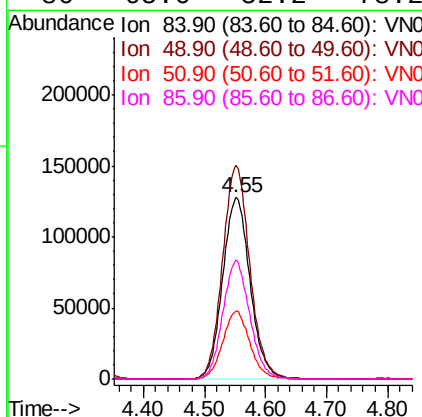
Manual Integrations
APPROVED

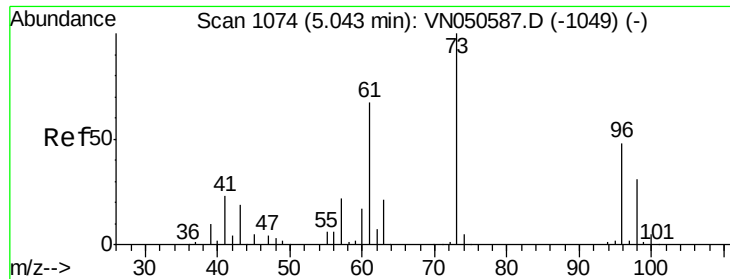
MMDadoda
8/16/2018 1:18:21 PM



#20
Methylene Chloride
Concen: 48.01 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
84	100		
49	117.9	92.6	138.8
51	37.7	28.6	43.0
86	65.6	52.2	78.2





#21

trans-1,2-Dichloroethene

Concen: 46.38 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 378812

Ion Ratio Lower Upper

96 100

61 137.6 111.2 166.8

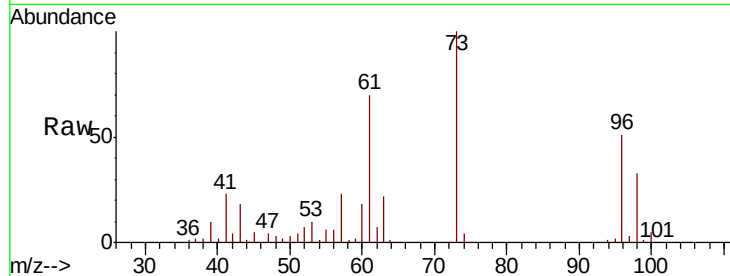
98 64.6 51.6 77.4

Manual Integrations

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MMDadoda

8/16/2018 1:18:21 PM

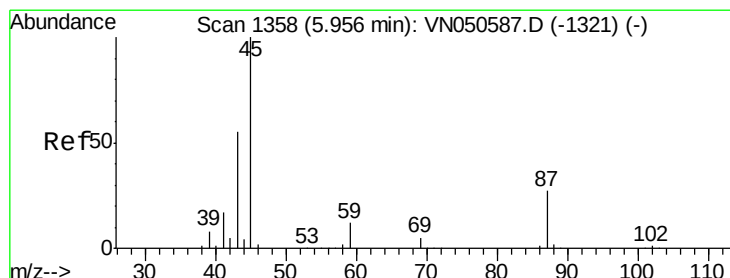
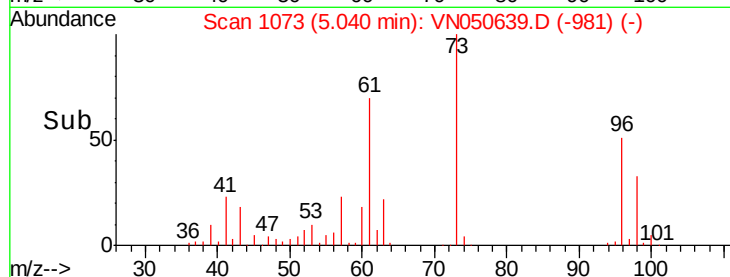
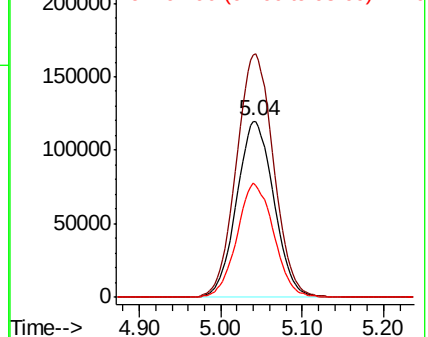


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 48.70 ug/l

RT: 5.95 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Tgt Ion: 45 Resp: 1170058

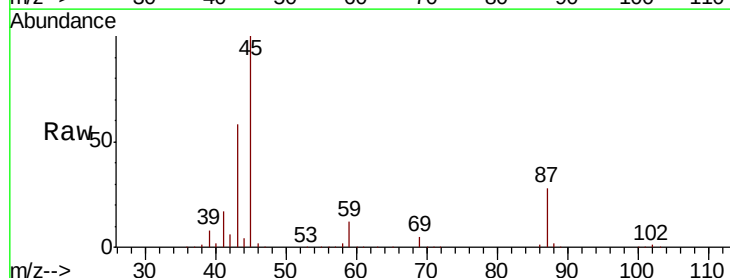
Ion Ratio Lower Upper

45 100

43 57.2 44.5 66.7

87 28.3 22.2 33.2

59 11.9 9.5 14.3



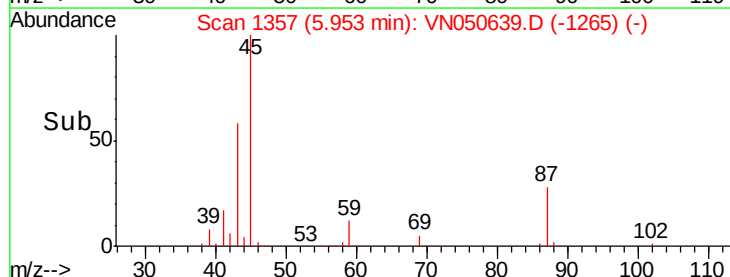
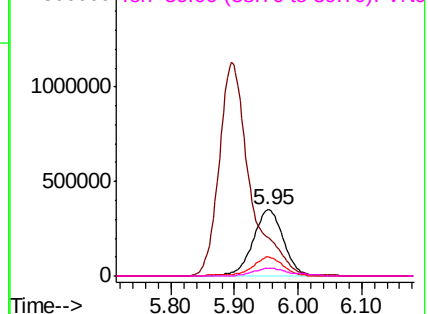
Abundance

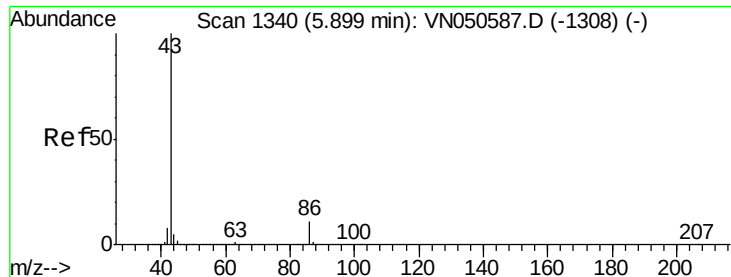
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 243.15 ug/l

RT: 5.90 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3821187

Ion Ratio Lower Upper

43 100

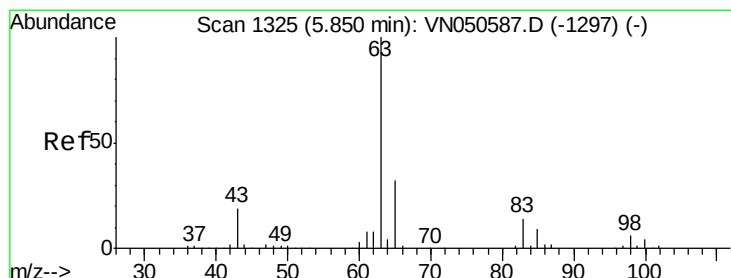
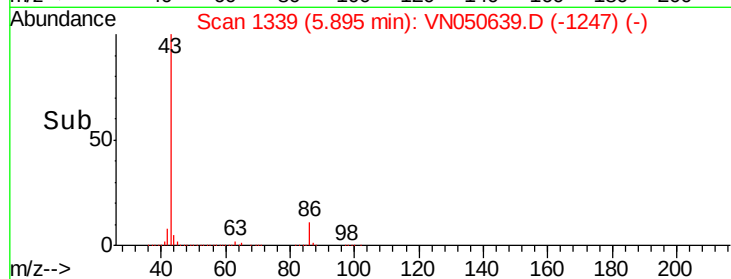
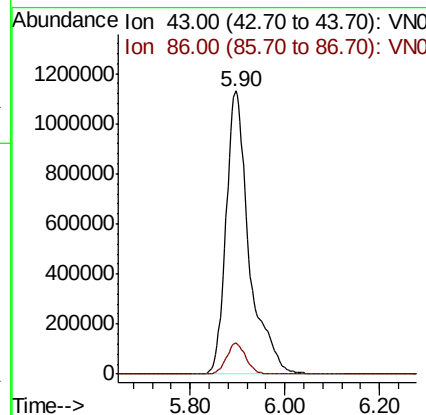
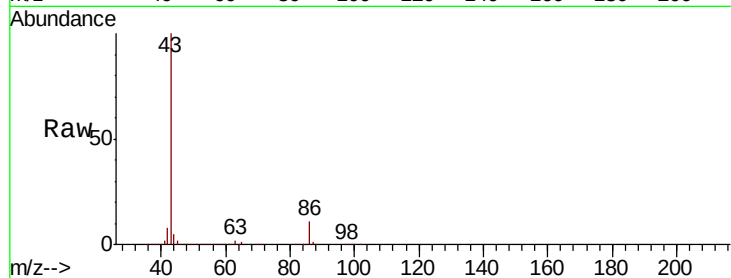
86 10.9 8.4 12.6

Manual Integrations

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MMDadoda

8/16/2018 1:18:21 PM



#24

1,1-Dichloroethane

Concen: 44.91 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

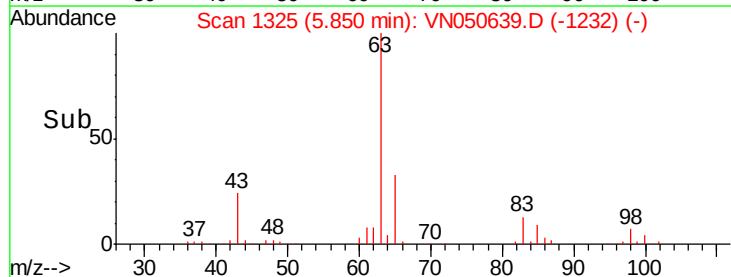
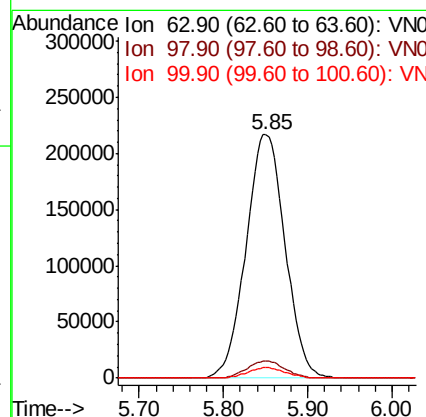
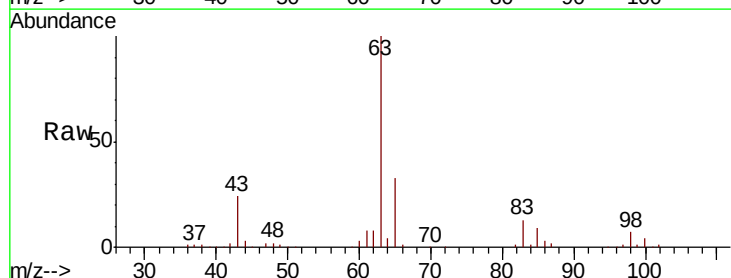
Tgt Ion: 63 Resp: 698134

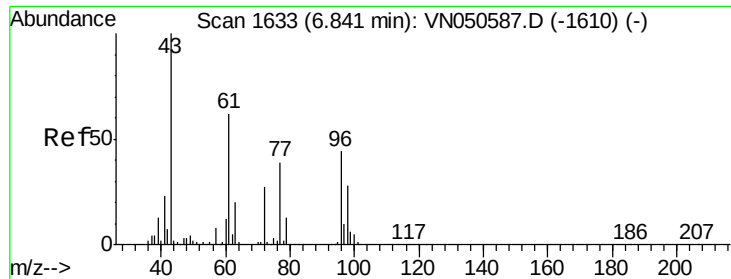
Ion Ratio Lower Upper

63 100

98 6.9 3.2 9.6

100 4.2 2.1 6.5





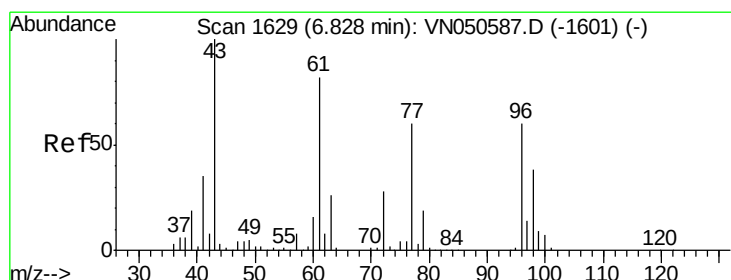
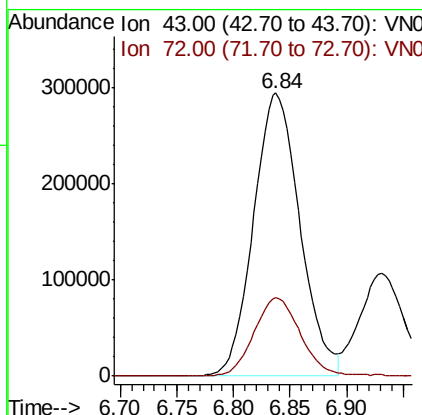
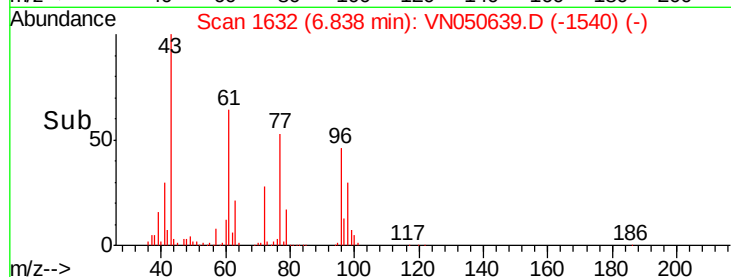
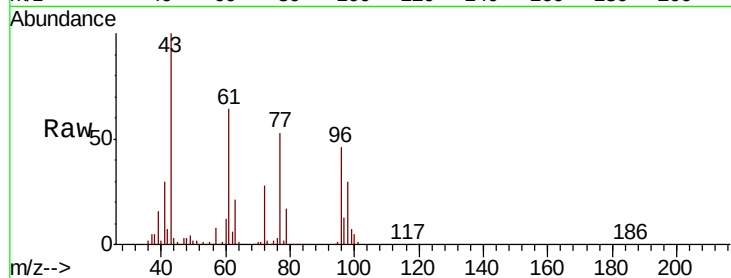
#25
2-Butanone
Concen: 233.68 ug/l
RT: 6.84 min Scan# 1632
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 838450
Ion Ratio Lower Upper
43 100
72 27.7 21.8 32.6

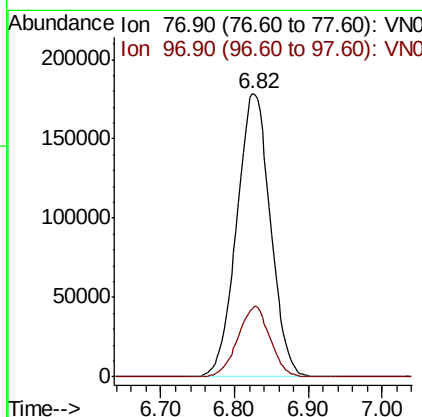
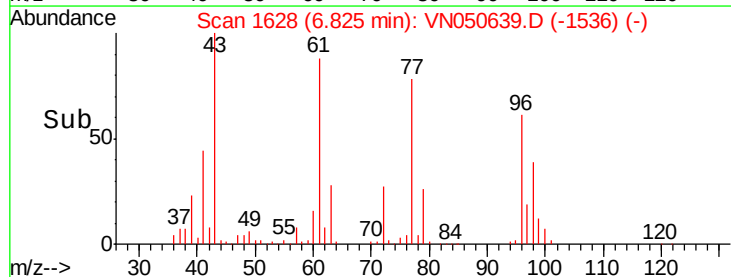
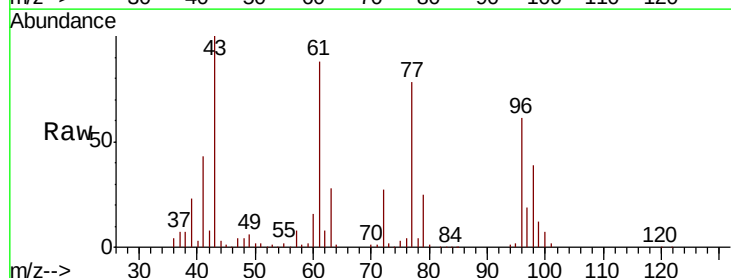
Manual Integrations
APPROVED

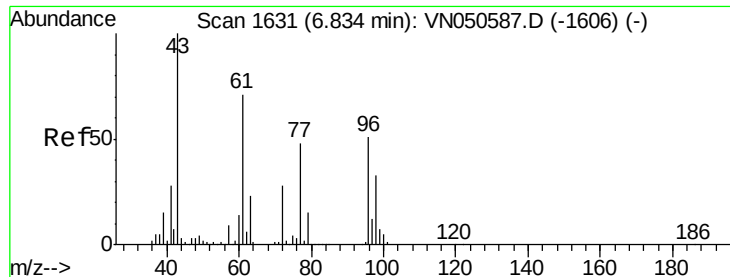
MMDadoda
8/16/2018 1:18:21 PM



#26
2,2-Dichloropropane
Concen: 54.58 ug/l
RT: 6.82 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion: 77 Resp: 567883
Ion Ratio Lower Upper
77 100
97 23.9 12.2 36.4





#27

cis-1,2-Dichloroethene

Concen: 46.28 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

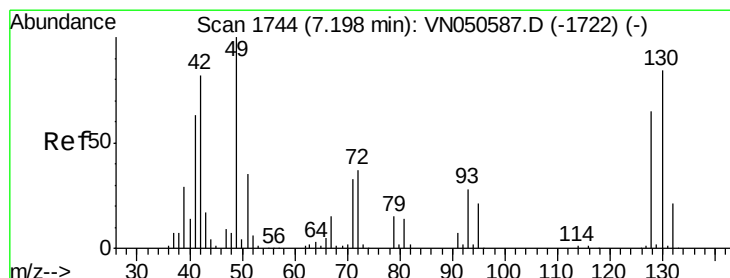
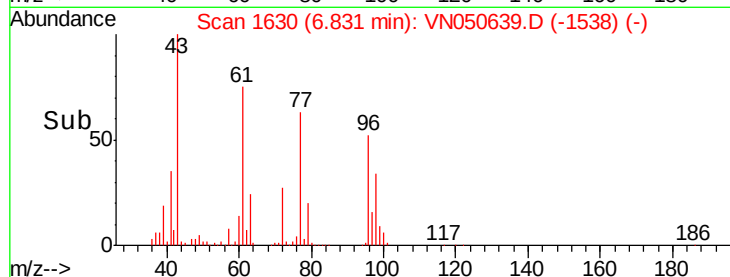
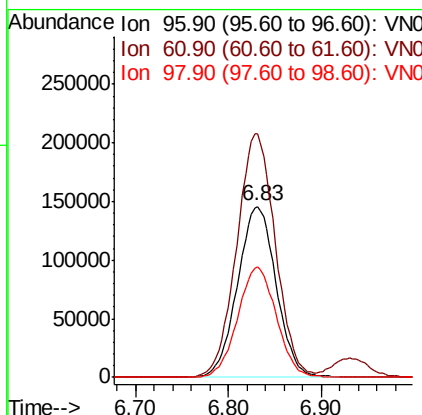
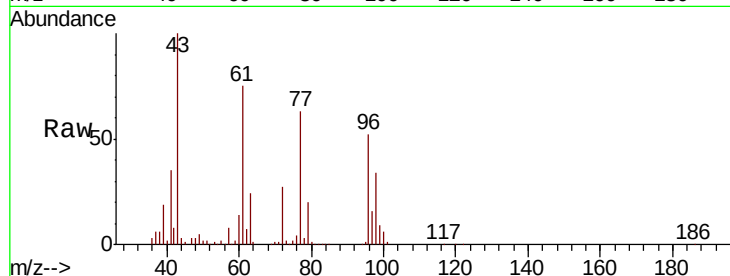
ClientSampled :

VSTDCCC050

Tot Ion:	96	Resp:	420900
Ion	Ratio	Lower	Upper
96	100		
61	142.8	0.0	278.2
98	64.6	0.0	128.8

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#28

Bromochloromethane

Concen: 46.93 ug/l

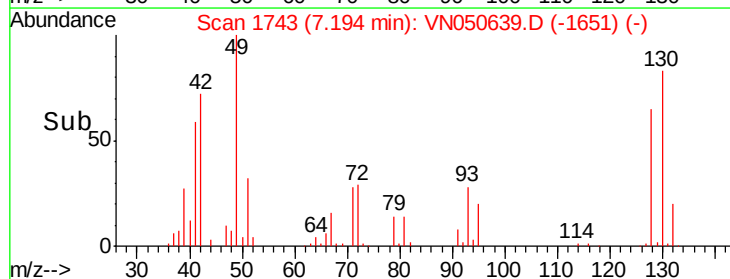
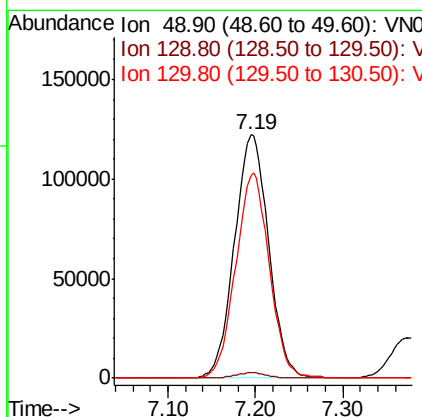
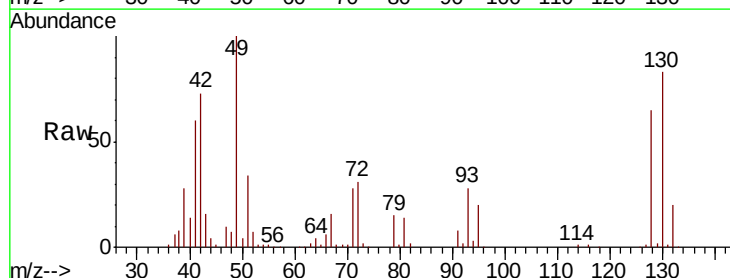
RT: 7.19 min Scan# 1743

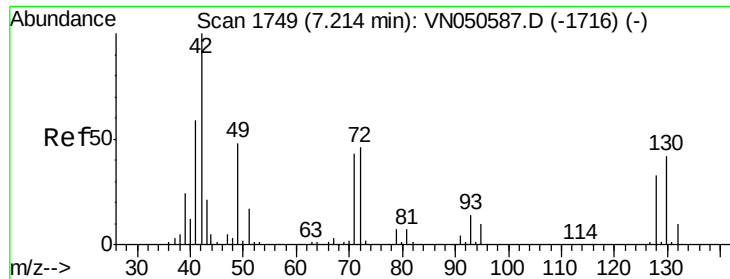
Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Tgt Ion:	49	Resp:	331998
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	82.8	66.8	100.2





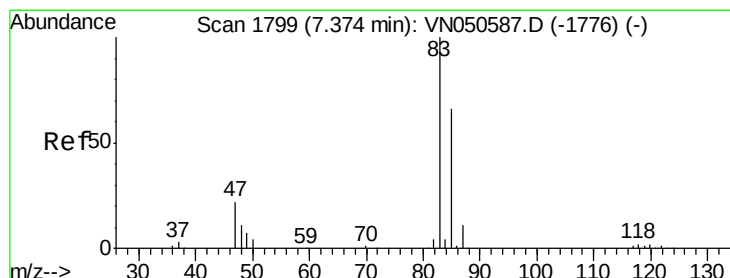
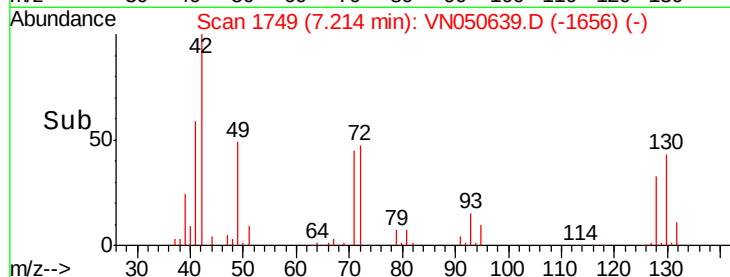
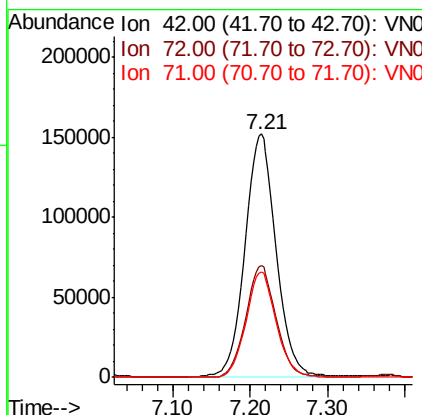
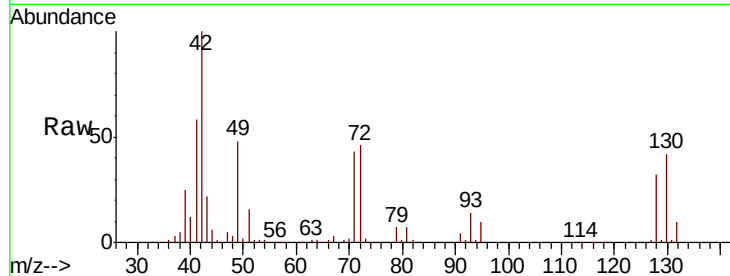
#29
Tetrahydrofuran
Concen: 228.89 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.7	35.8	53.6
71	41.9	33.4	50.0

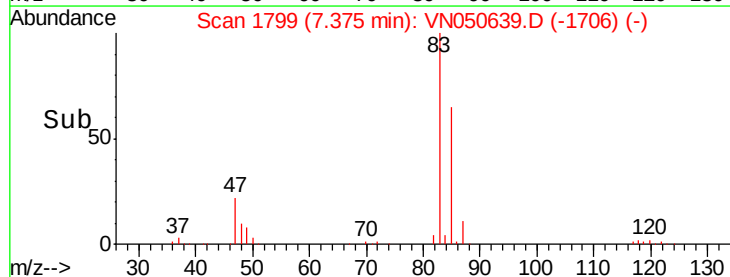
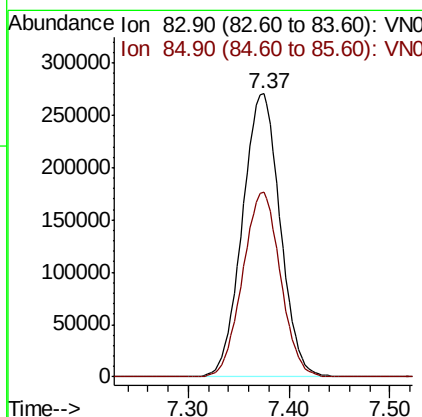
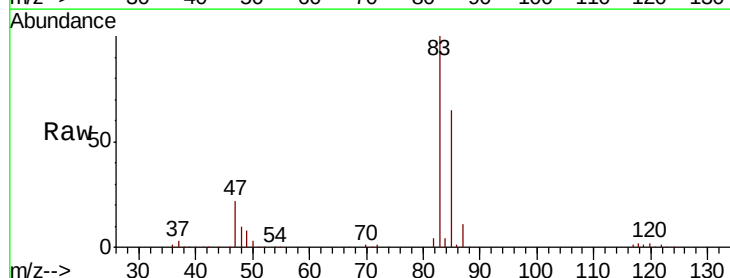
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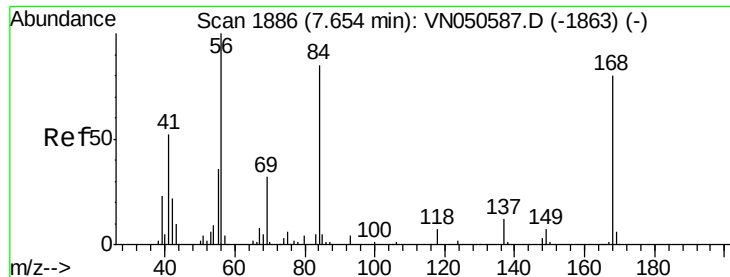
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#30
Chloroform
Concen: 44.53 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.5	78.7





#31

Cyclohexane

Concen: 48.03 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 637367
Ion Ratio Lower Upper

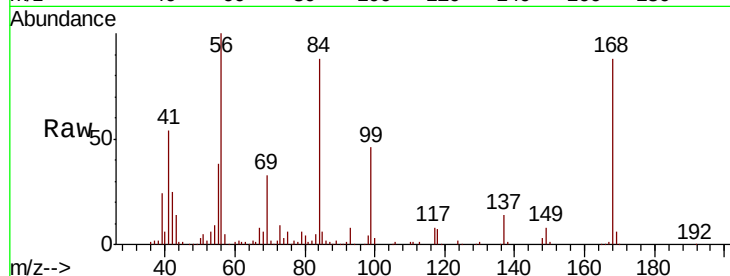
56 100

69 32.7 25.8 38.6

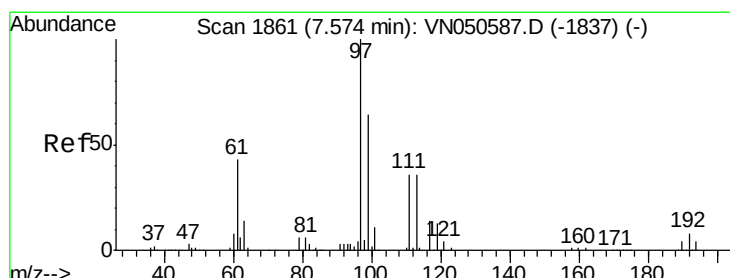
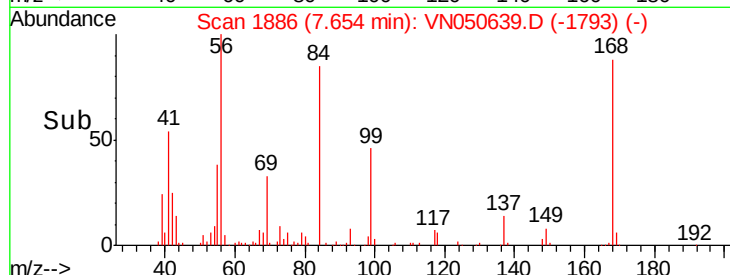
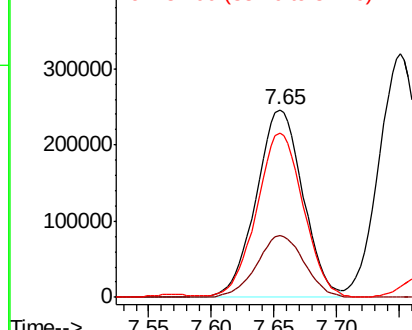
84 86.5 67.8 101.6

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Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 45.22 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VN050639.D

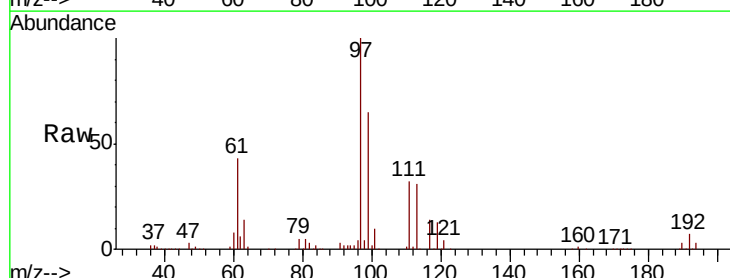
Acq: 15 Aug 2018 8:26

Tgt Ion: 97 Resp: 599563
Ion Ratio Lower Upper

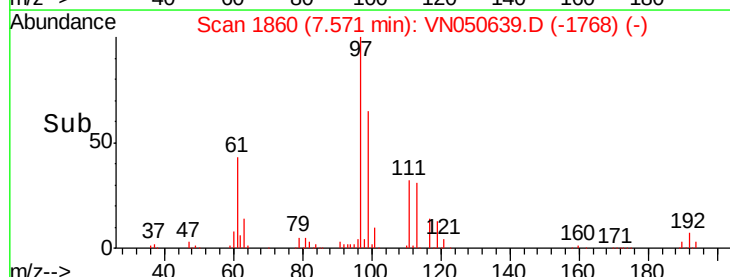
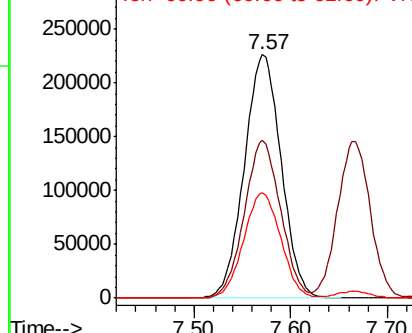
97 100

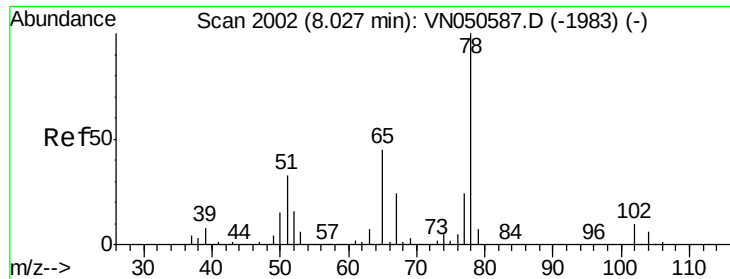
99 63.7 51.1 76.7

61 43.6 34.8 52.2



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





#33

1,2-Dichloroethane-d4

Concen: 45.19 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 395466

Ion Ratio Lower Upper

65 100

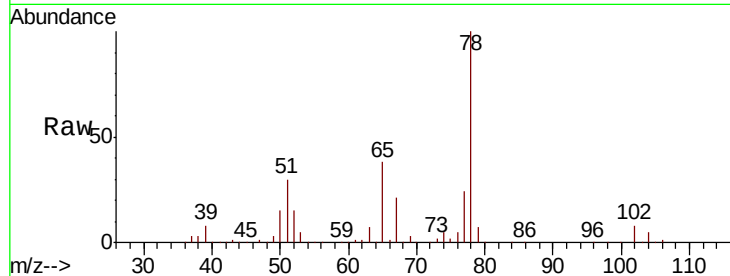
67 55.1 0.0 109.8

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Abundance Ion 64.90 (64.60 to 65.60): VN050639.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN050639.D (-1909) (-)

8.03

150000

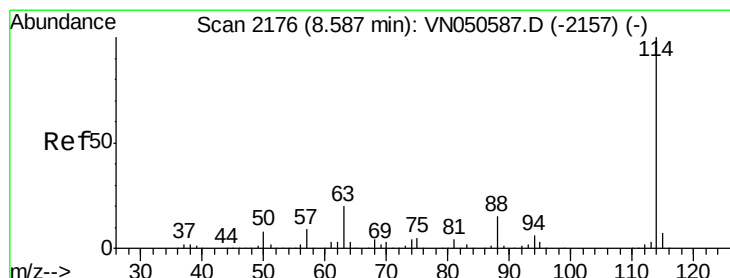
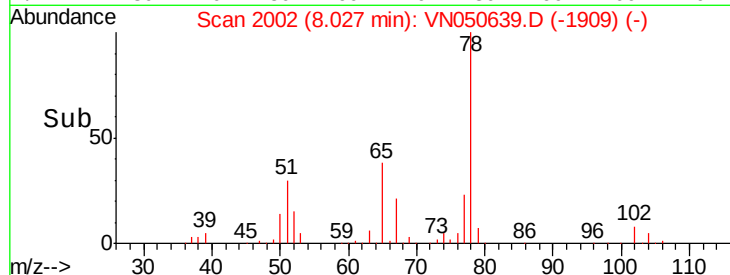
100000

50000

0

7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

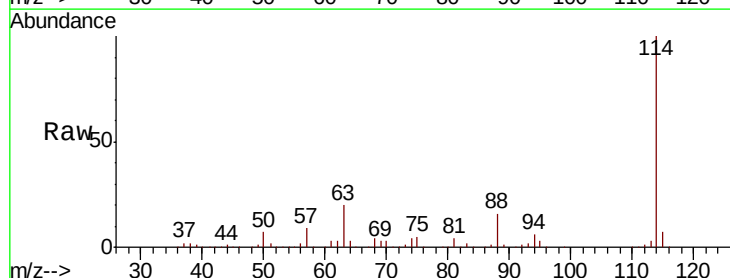
Tgt Ion: 114 Resp: 958096

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

88 15.5 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): VN050639.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN050639.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN050639.D (-2083) (-)

8.59

600000

500000

400000

300000

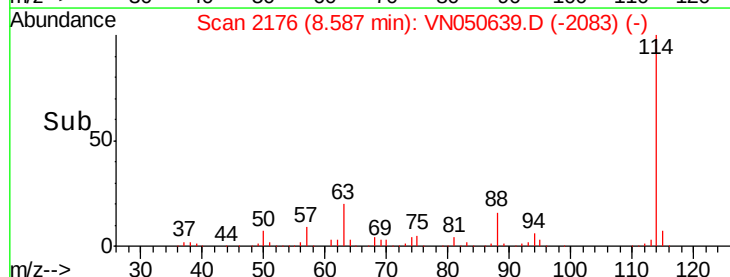
200000

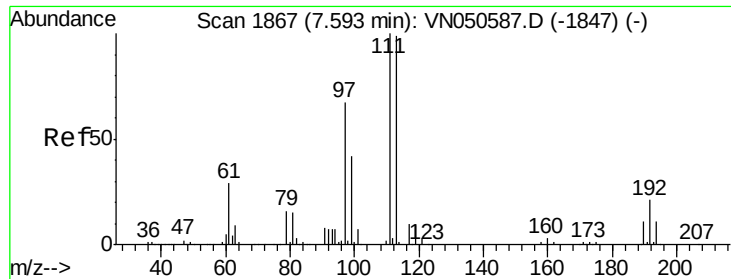
100000

0

8.50 8.60 8.70

Time-->





#35

Dibromofluoromethane

Concen: 48.80 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

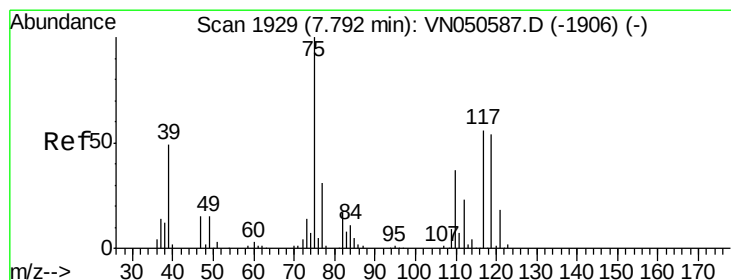
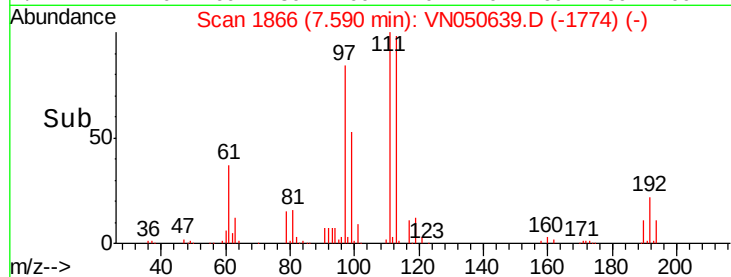
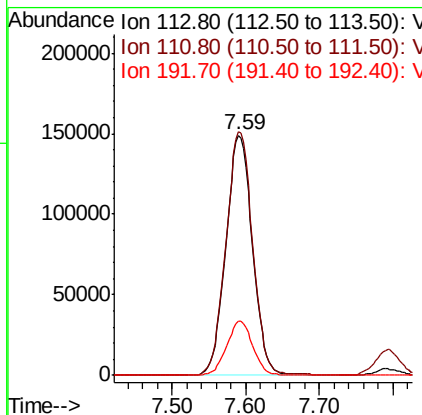
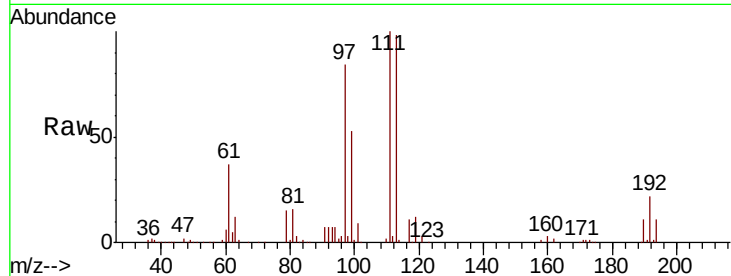
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	373243
Ion Ratio	Lower	Upper	
113	100		
111	102.2	81.0	121.6
192	22.1	17.6	26.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 51.46 ug/l

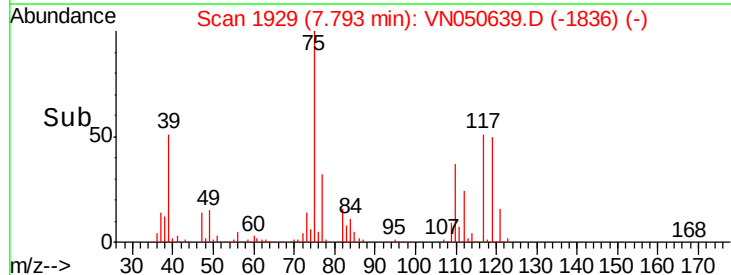
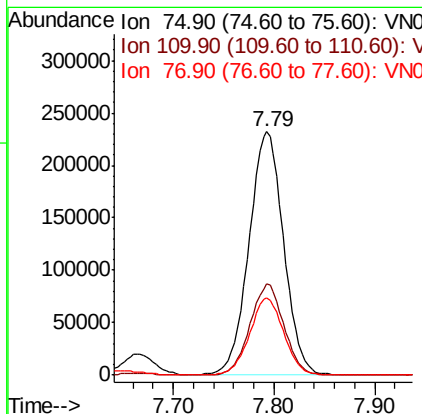
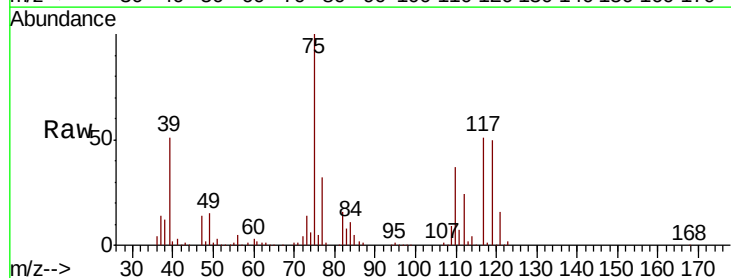
RT: 7.79 min Scan# 1929

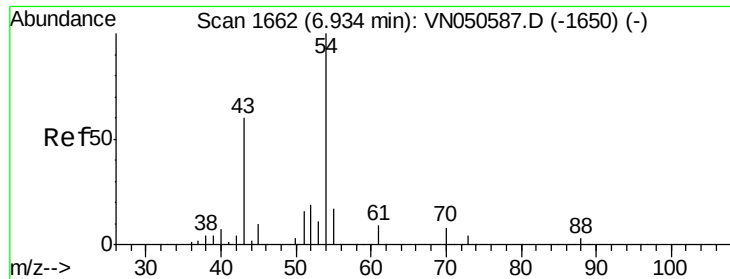
Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Tgt Ion:	75	Resp:	548837
Ion Ratio	Lower	Upper	
75	100		
110	36.7	18.3	54.9
77	31.3	25.0	37.4





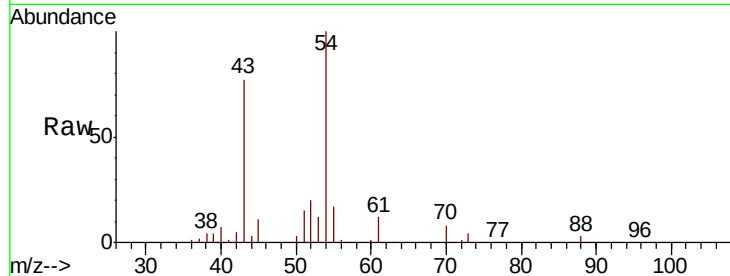
#37
Ethyl Acetate
Concen: 49.73 ug/l
RT: 6.93 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

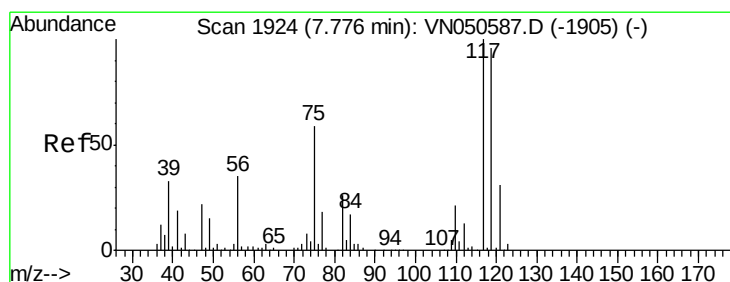
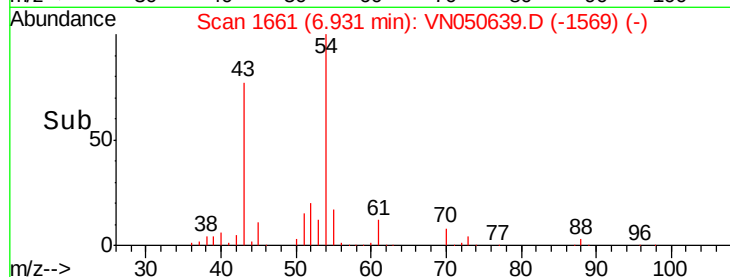
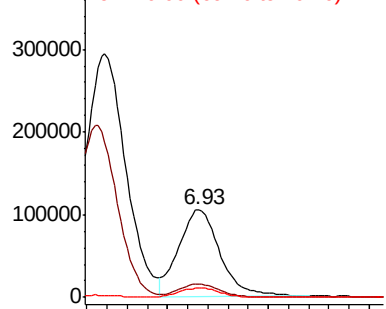
Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	12.0	18.0
70	10.7	8.5	12.7

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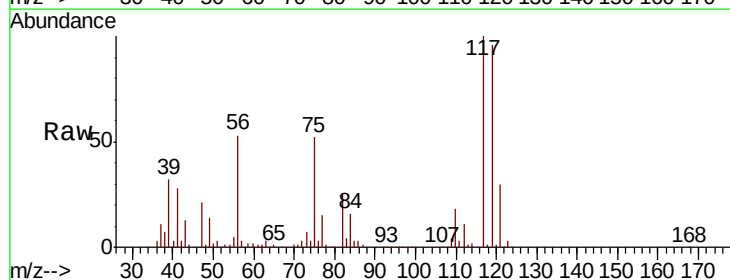


Abundance Ion 43.00 (42.70 to 43.70): VN050587.D (-1650) (-)

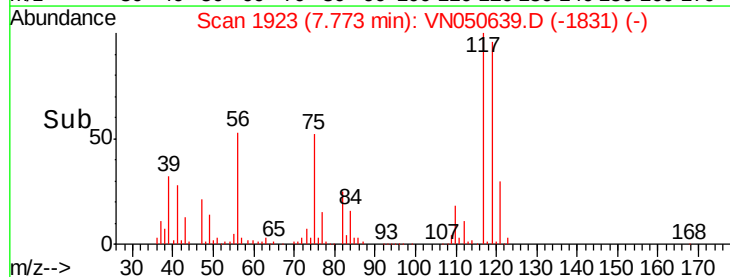
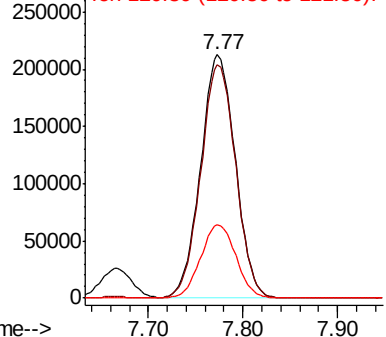


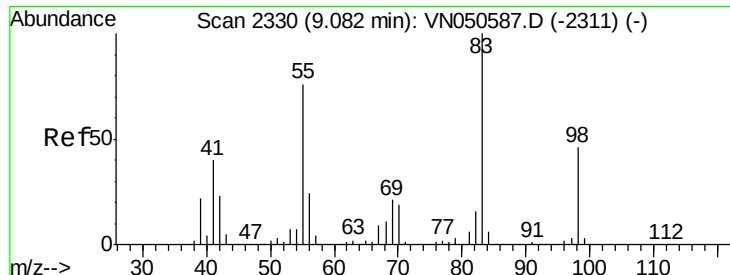
#38
Carbon Tetrachloride
Concen: 48.87 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.6	115.0
121	30.1	25.0	37.6



Abundance Ion 116.80 (116.50 to 117.50): VN050587.D (-1905) (-)





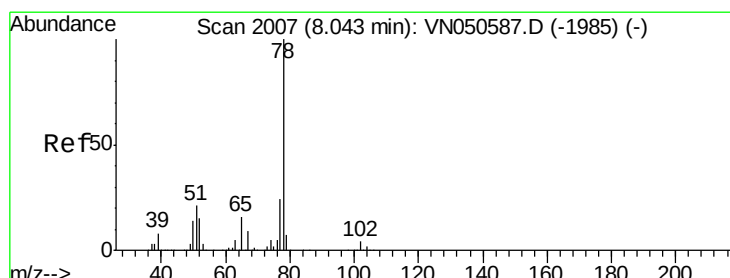
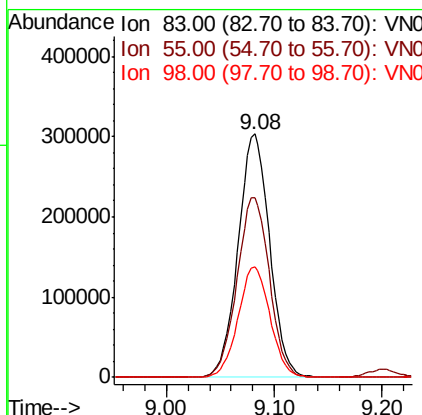
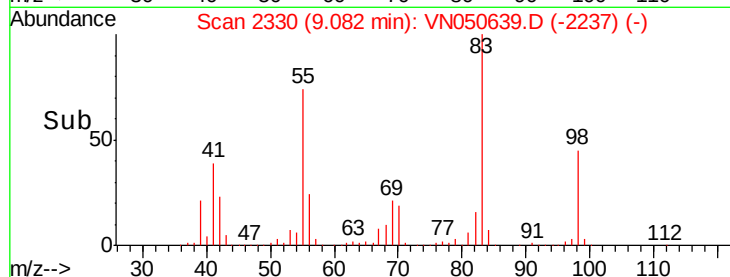
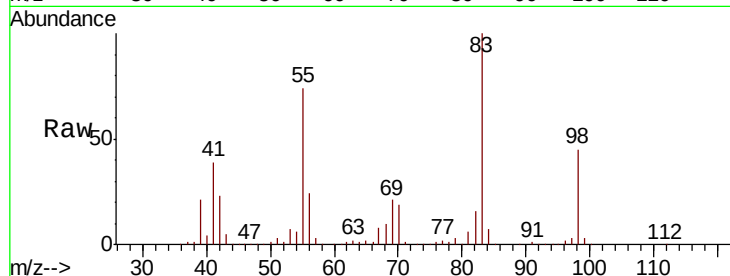
#39
Methylvlcyclohexane
Concen: 56.02 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	618555		
55	74.0		60.6	91.0
98	45.4		37.0	55.4

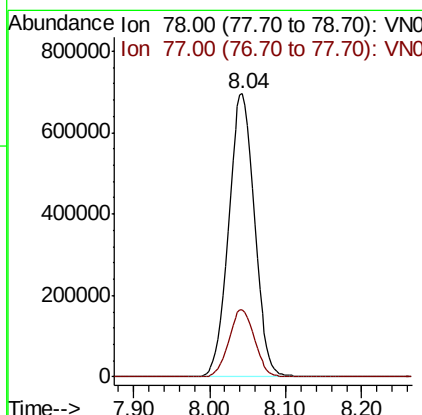
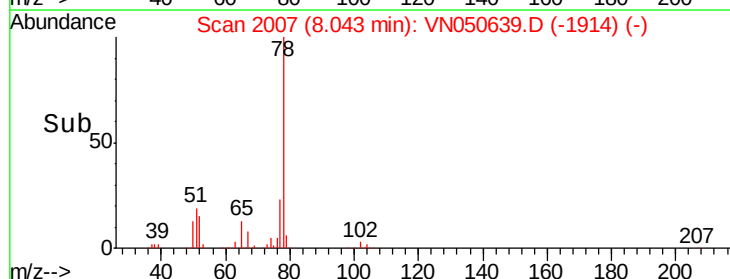
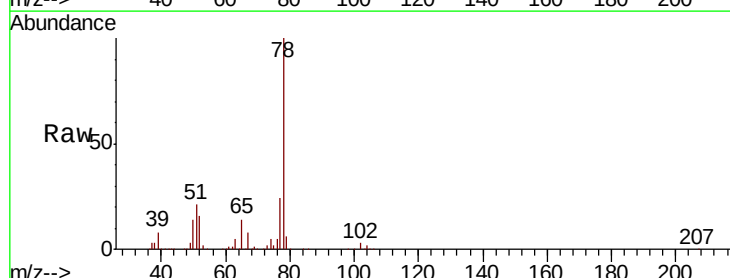
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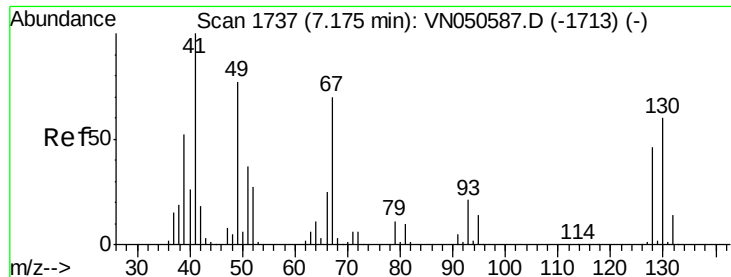
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#40
Benzene
Concen: 50.65 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1643350		
77	23.6		19.0	28.6





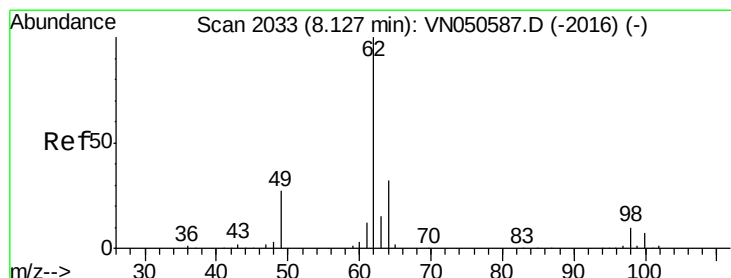
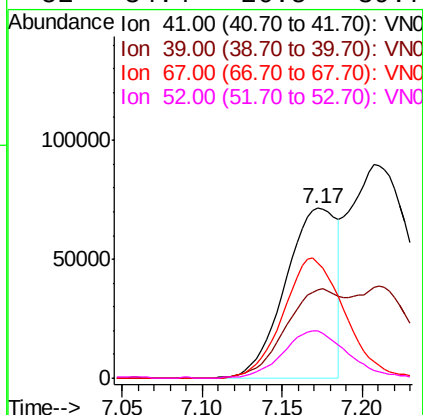
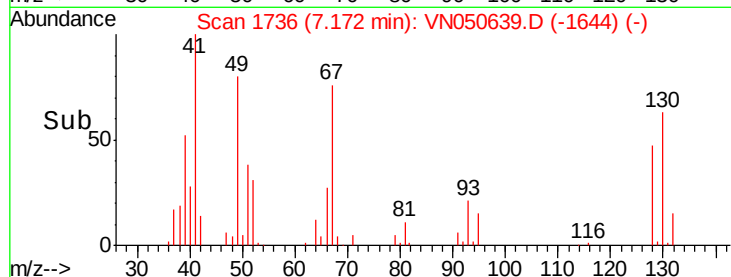
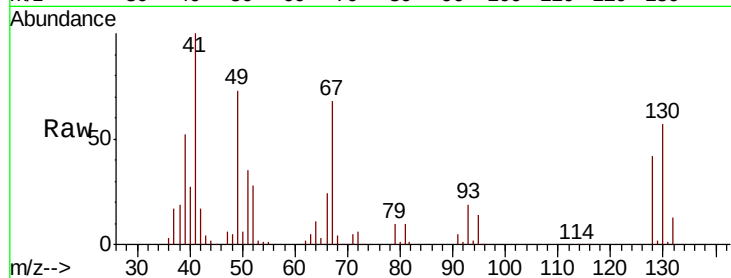
#41
Methacrylonitrile
Concen: 49.28 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	55.9	44.6	66.8
67	84.5	66.7	100.1
52	34.4	26.5	39.7

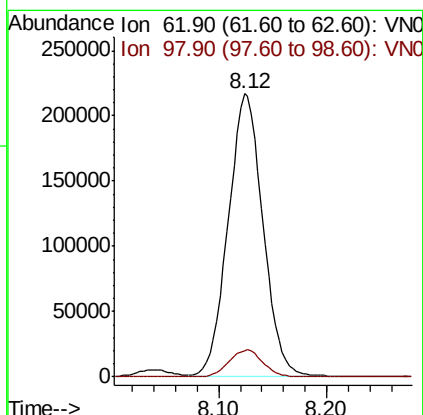
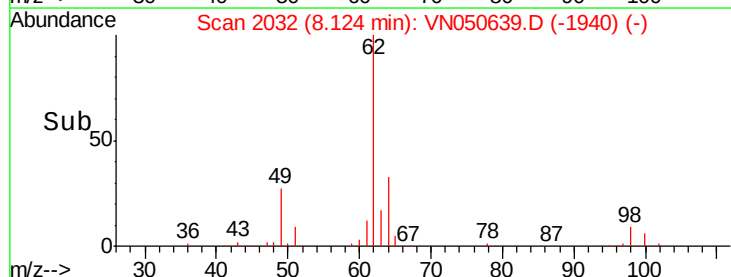
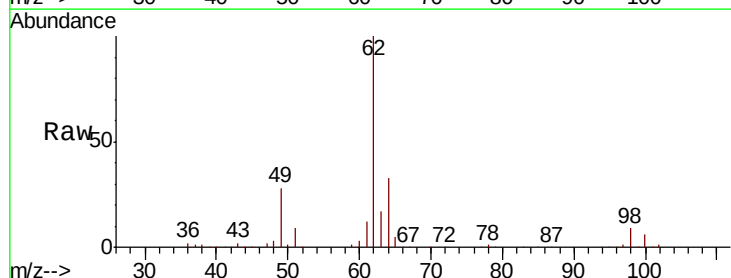
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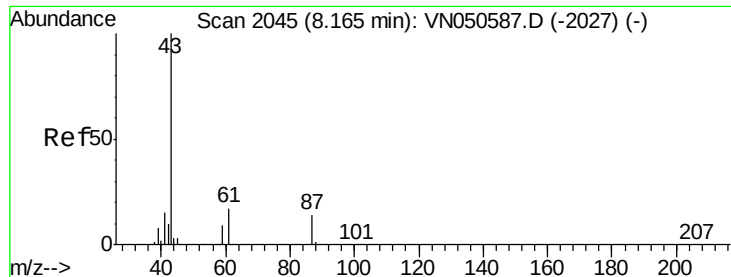
MMDadoda
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#42
1,2-Dichloroethane
Concen: 48.84 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.4





#43

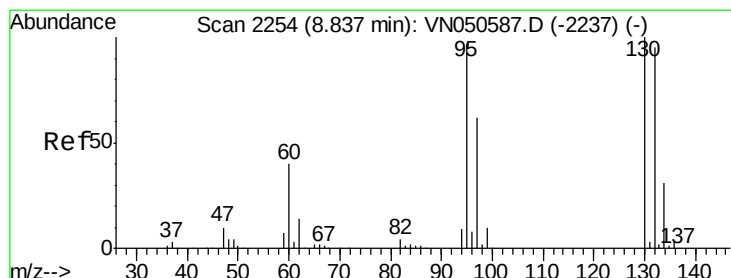
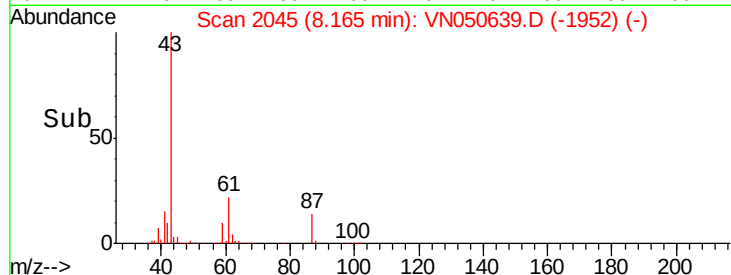
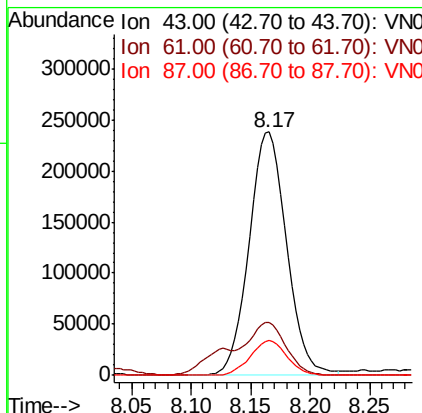
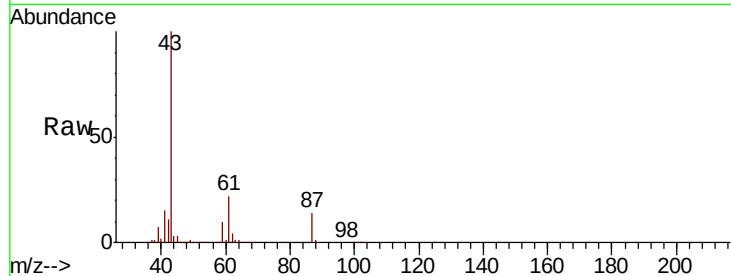
Isopropyl Acetate
 Concen: 47.31 ug/l
 RT: 8.17 min Scan# 2045
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.3	16.2	24.2
87	14.0	10.9	16.3

Manual Integrations
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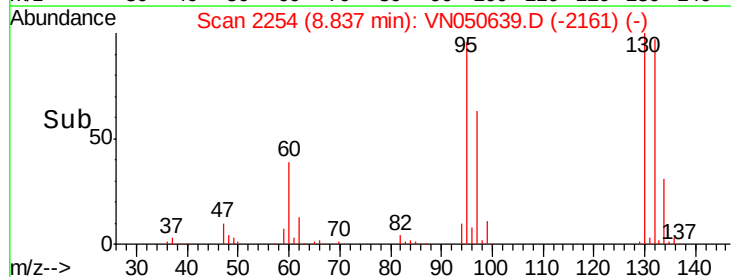
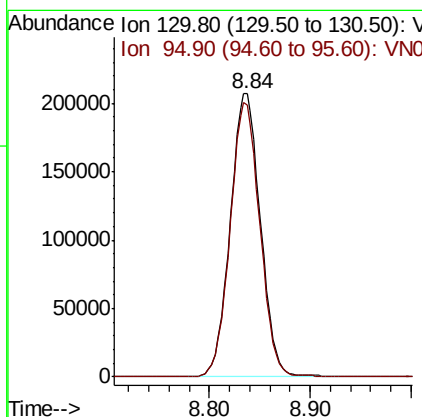
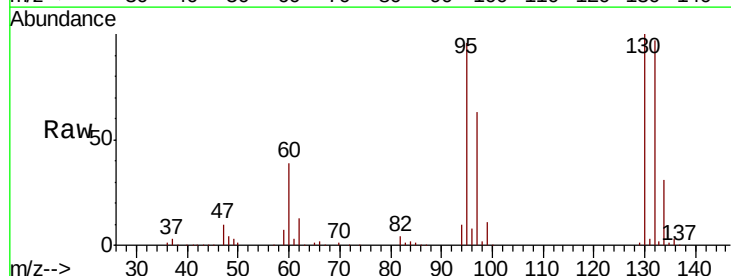
MMDadoda
 8/16/2018 1:18:21 PM

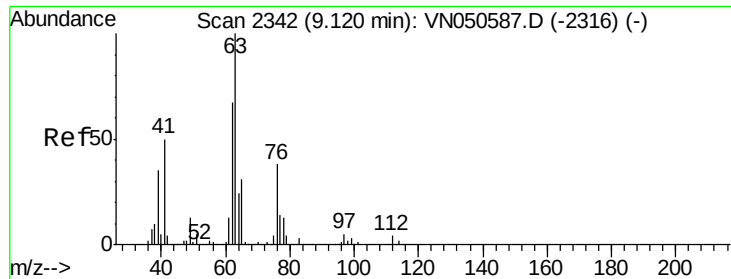


#44

Trichloroethene
 Concen: 49.37 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	193.8





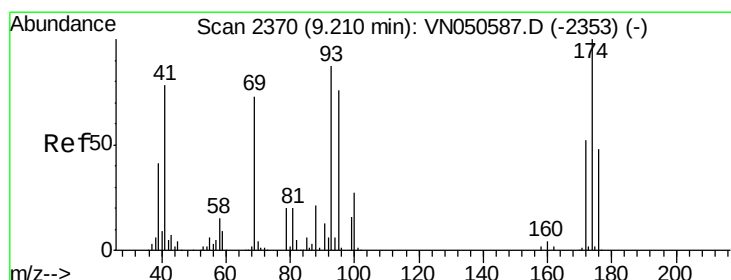
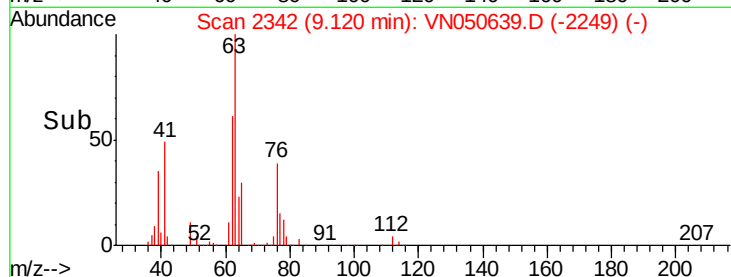
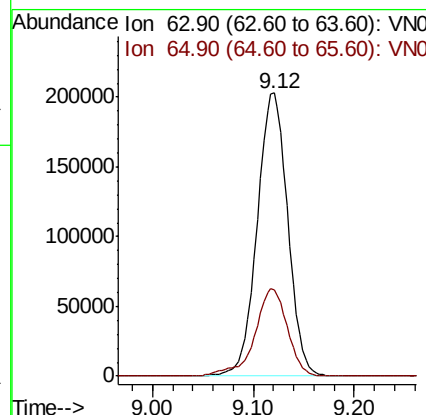
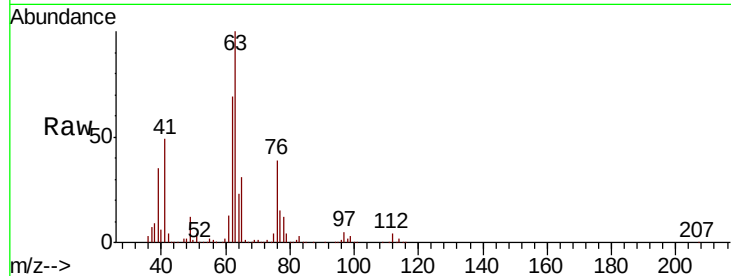
#45
 1,2-Dichloropropane
 Concen: 49.27 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.5	36.7

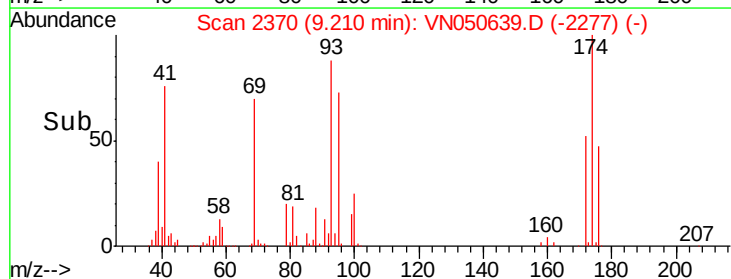
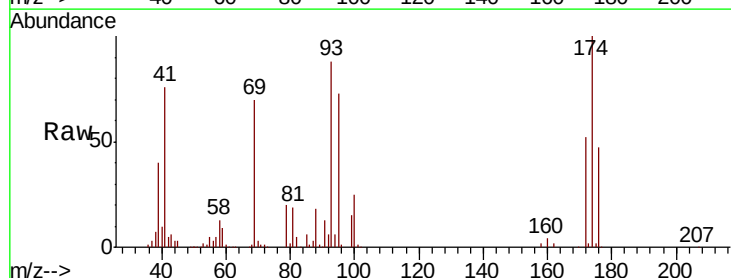
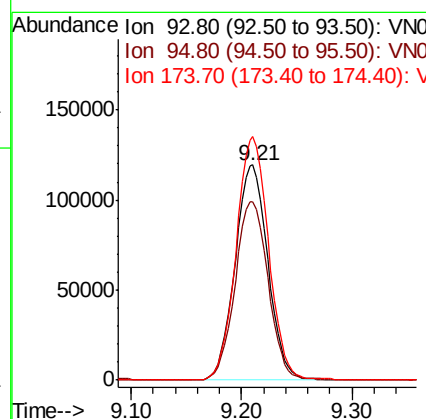
Manual Integrations
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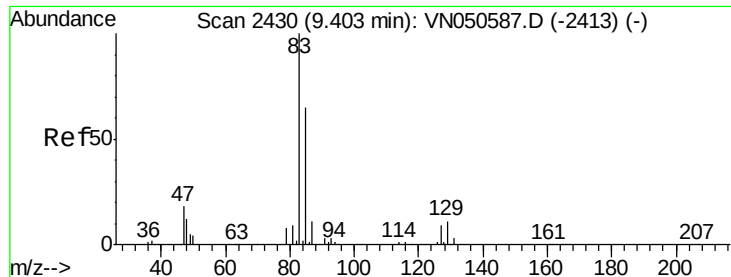
MMDadoda
 8/16/2018 1:18:21 PM



#46
 Dibromomethane
 Concen: 48.36 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.5	69.1	103.7
174	112.3	91.0	136.6





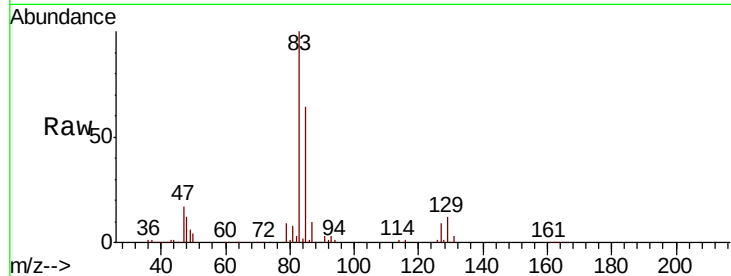
#47
Bromodichloromethane
Concen: 49.40 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

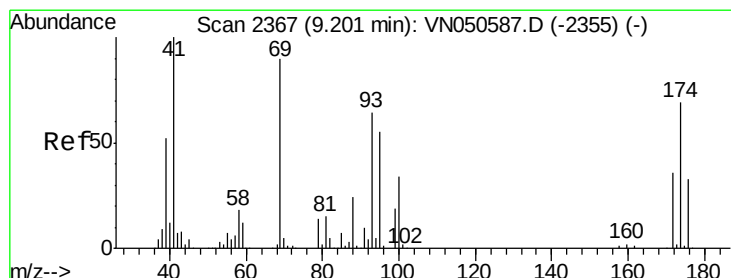
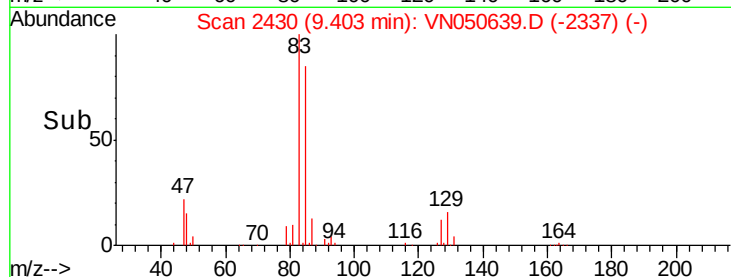
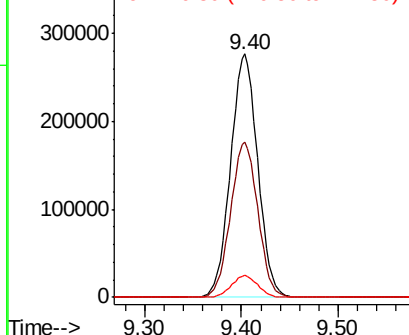
Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.9	51.8	77.6	
127	8.9	7.2	10.8	

Manual Integrations
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MMDadoda
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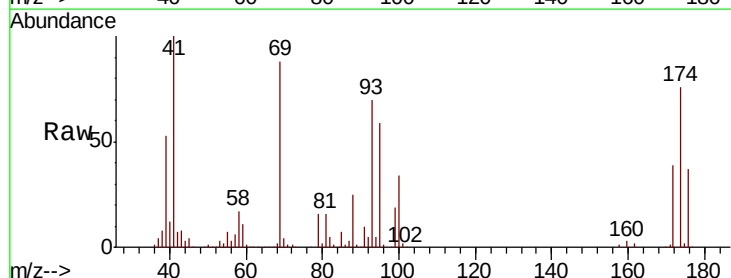


Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

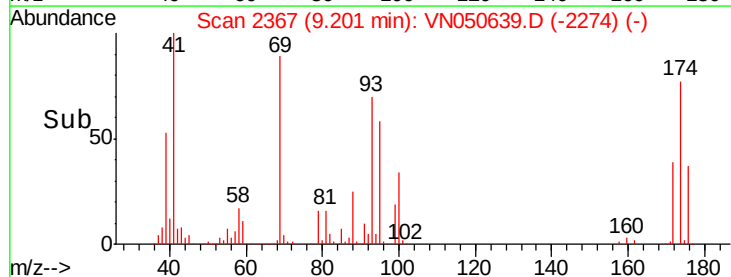
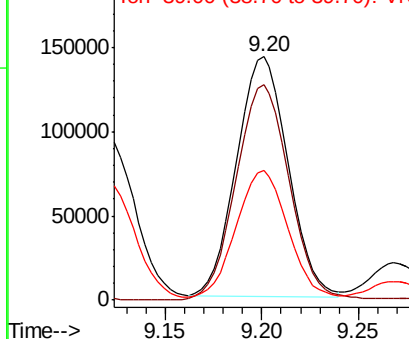


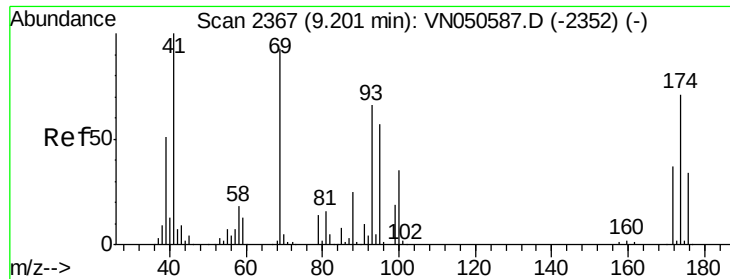
#48
Methyl methacrylate
Concen: 47.64 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	94.1	73.4	110.0	
39	55.0	43.0	64.6	



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





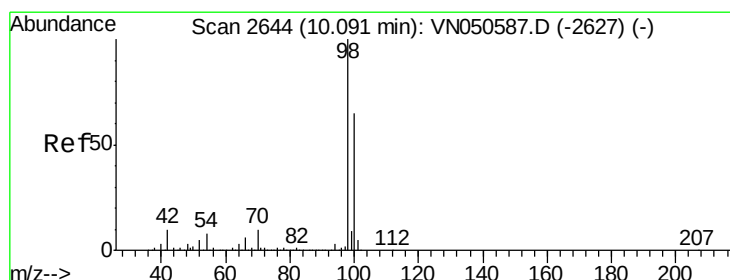
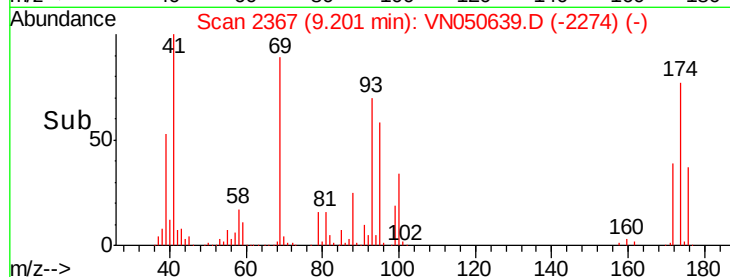
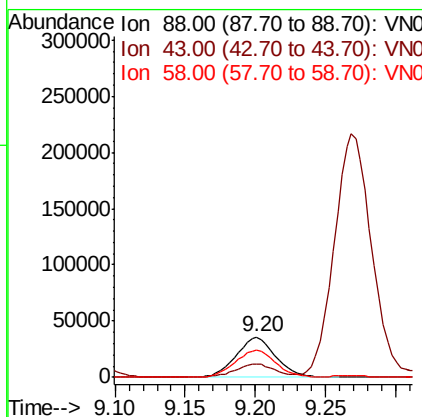
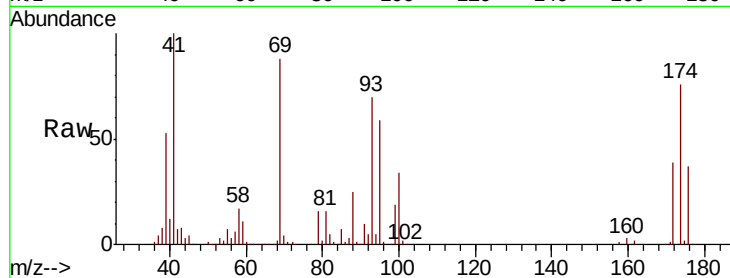
#49
1,4-Dioxane
Concen: 967.64 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.8	25.9	38.9
58	69.1	56.5	84.7

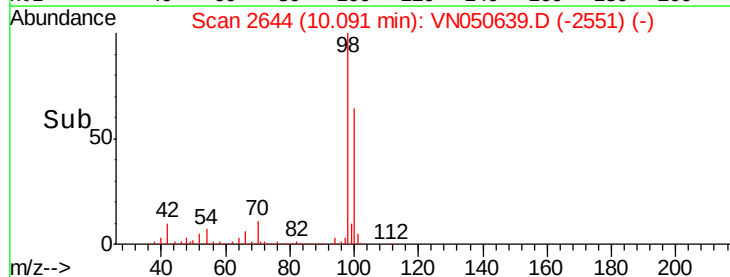
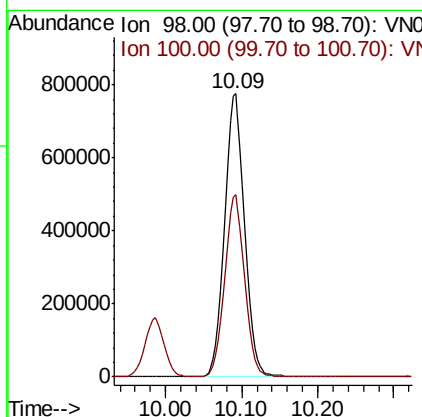
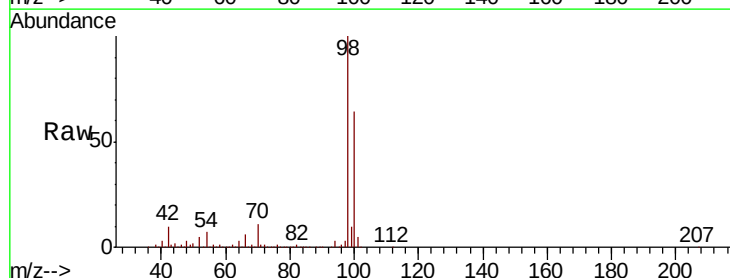
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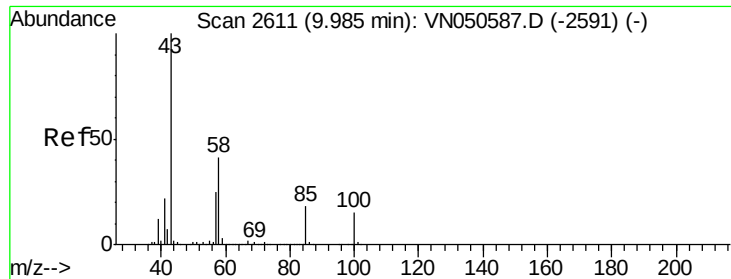
MMDadoda
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#50
Toluene-d8
Concen: 49.49 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8





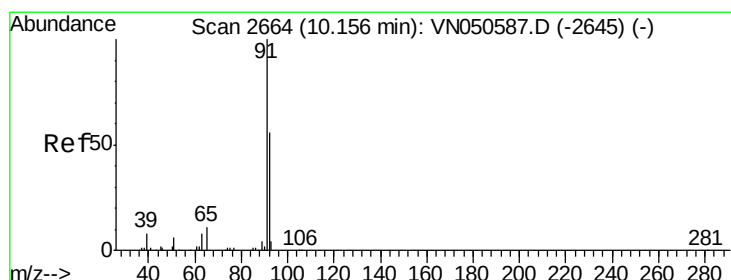
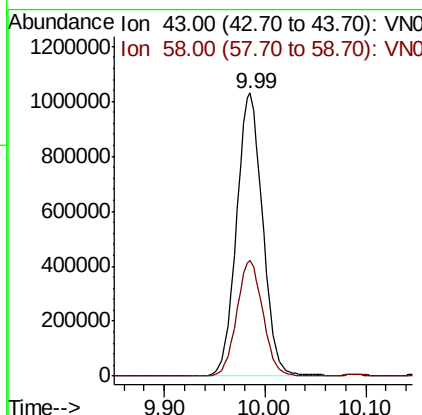
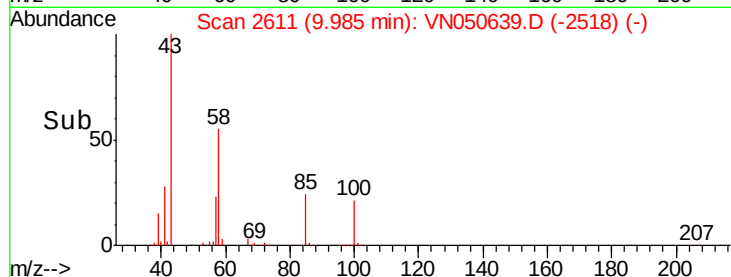
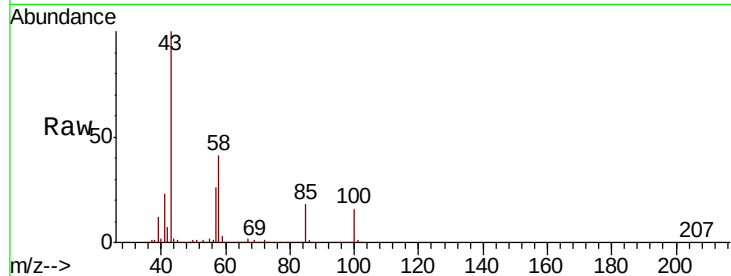
#51
4-Methyl-2-Pentanone
Concen: 248.12 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 1843658
Ion Ratio Lower Upper
43 100
58 40.8 32.5 48.7

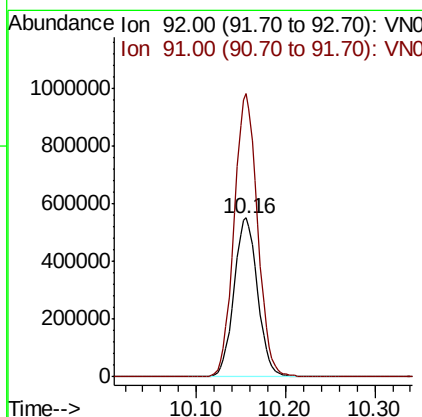
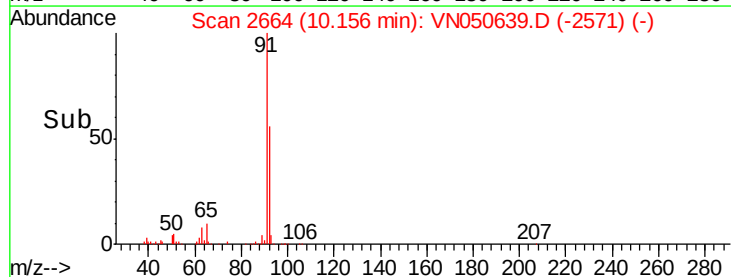
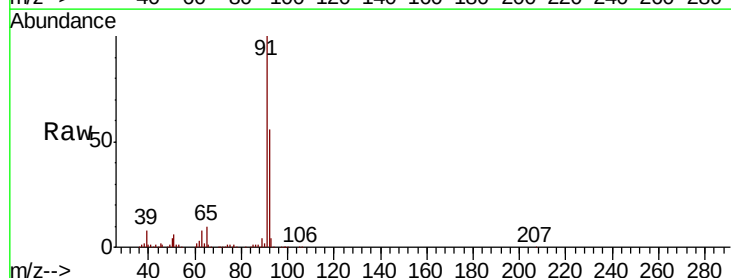
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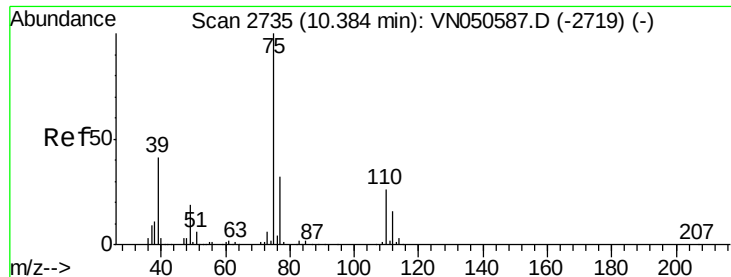
MMDadoda
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#52
Toluene
Concen: 52.15 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion: 92 Resp: 1010366
Ion Ratio Lower Upper
92 100
91 177.3 141.9 212.9





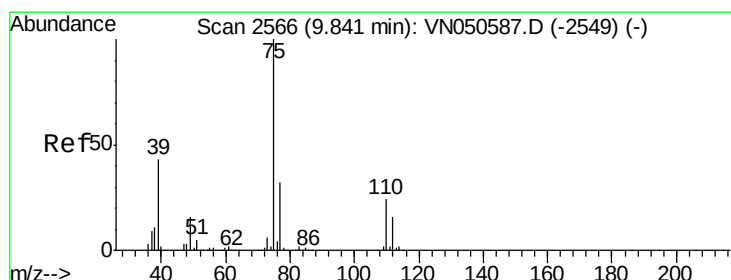
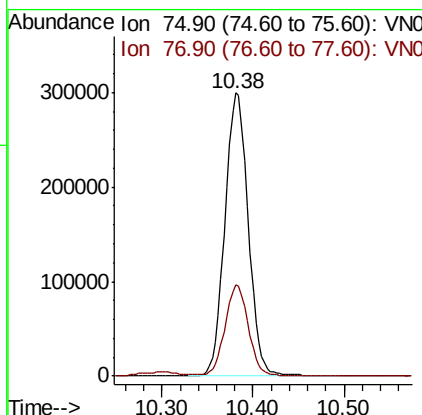
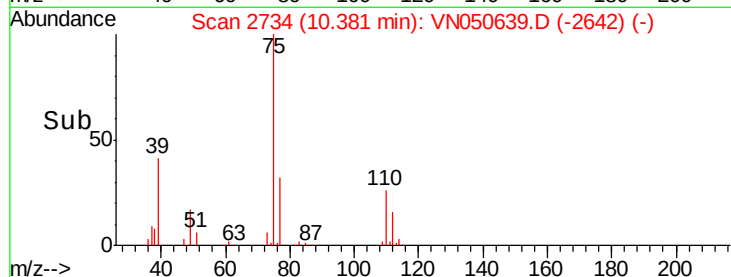
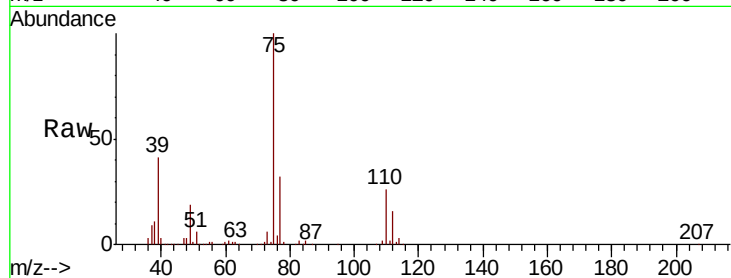
#53
t-1,3-Dichloropropene
Concen: 52.71 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.8	38.6

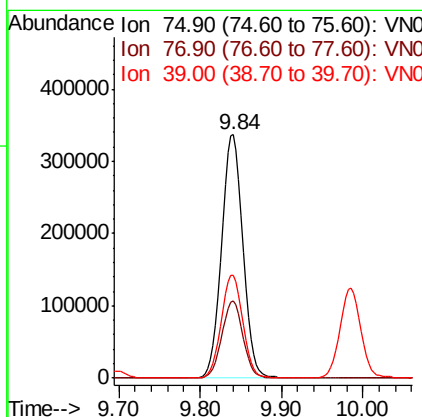
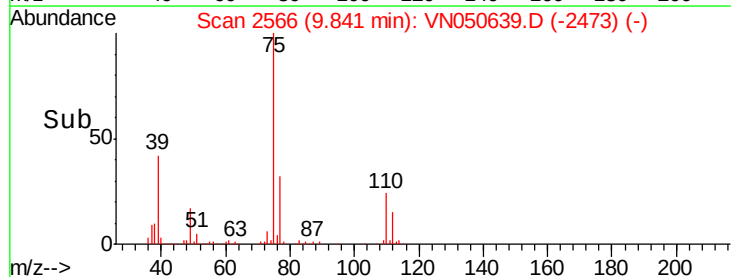
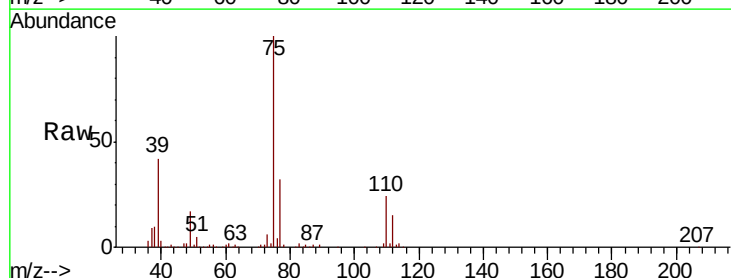
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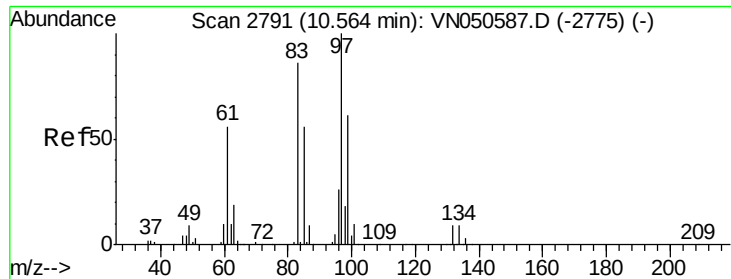
MMDadoda
8/16/2018 1:18:21 PM



#54
cis-1,3-Dichloropropene
Concen: 54.02 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4
39	42.1	34.4	51.6





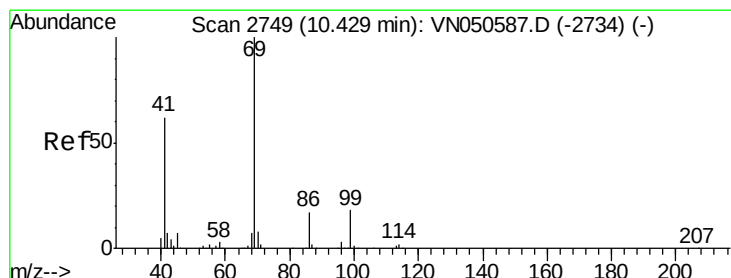
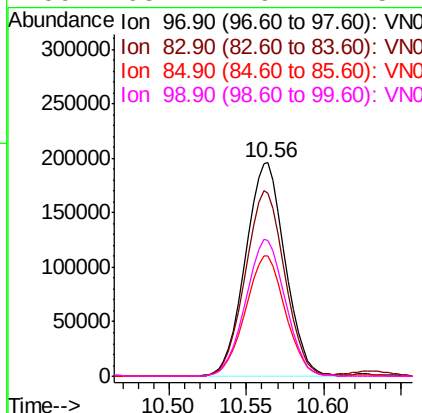
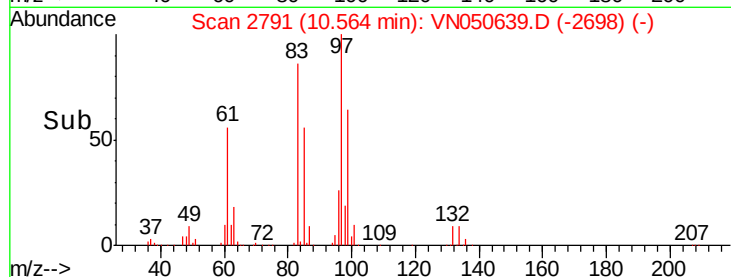
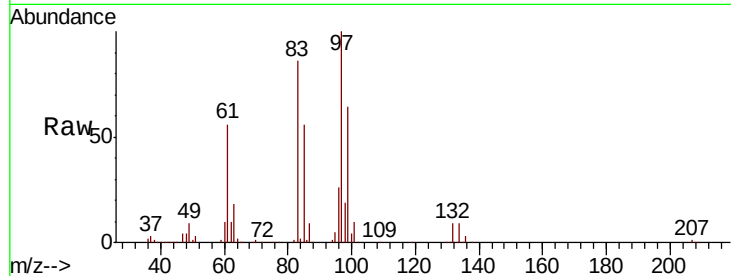
#55
 1,1,2-Trichloroethane
 Concen: 48.43 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		350469		
83	86.0	68.5	102.7		
85	56.1	44.6	66.8		
99	63.7	49.1	73.7		

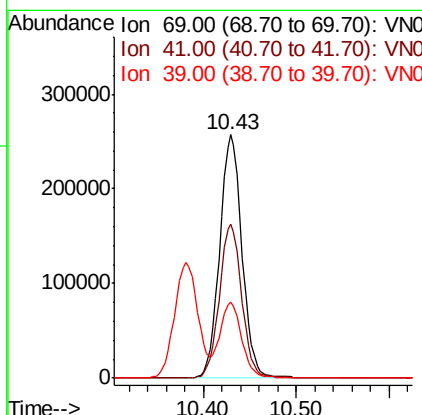
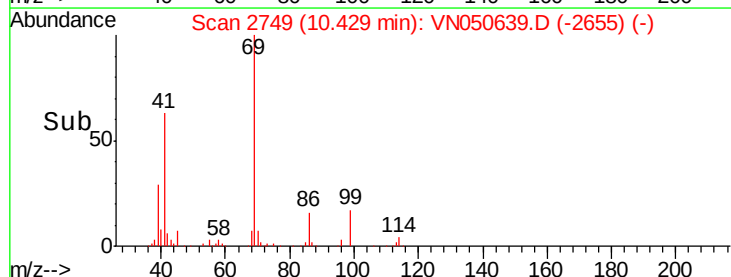
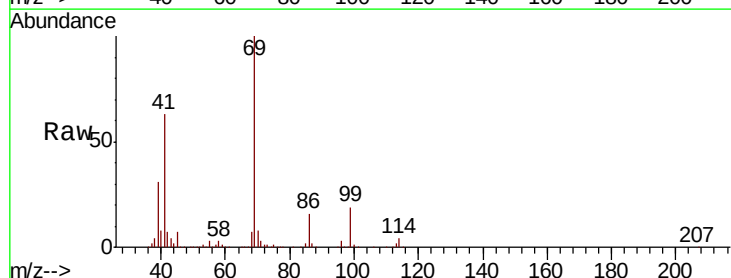
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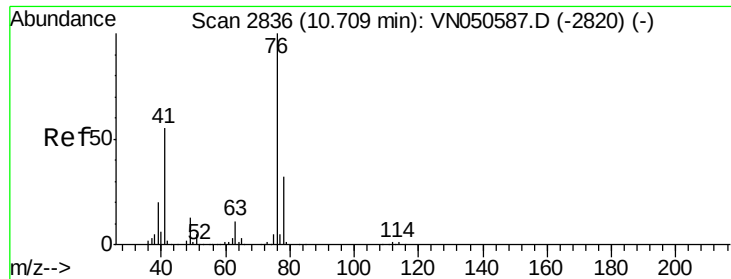
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 46.51 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		428161		
41	63.5	49.7	74.5		
39	30.9	24.2	36.2		





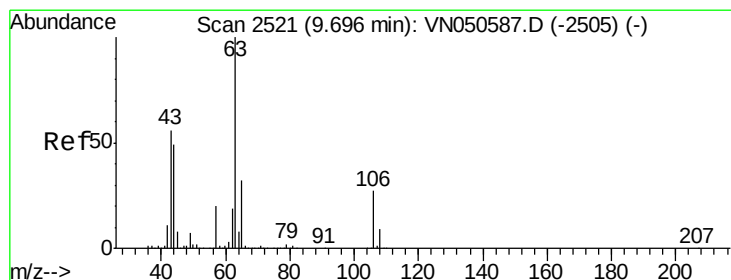
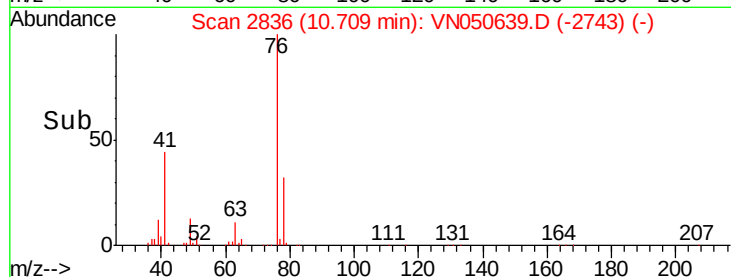
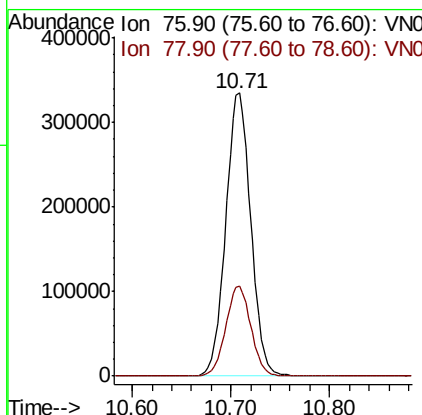
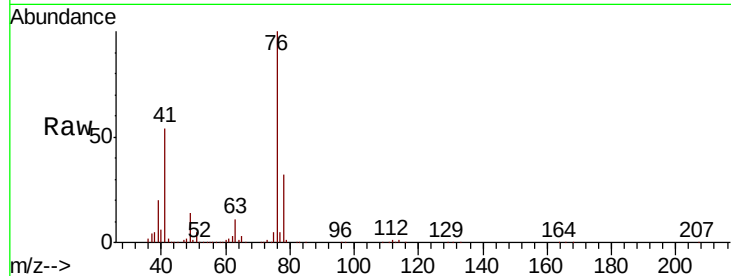
#57
 1,3-Dichloropropane
 Concen: 50.11 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.6

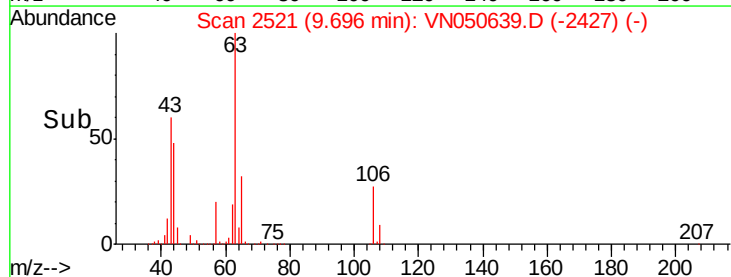
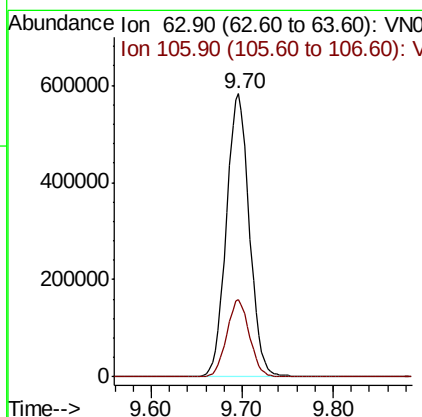
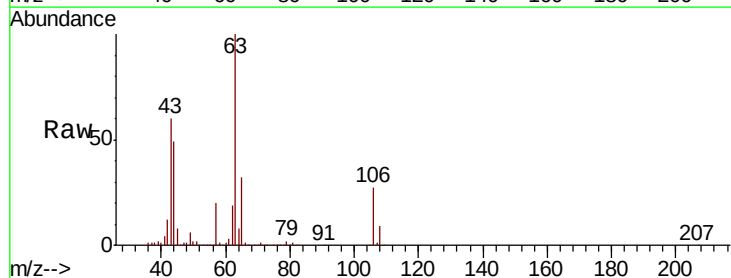
Manual Integrations
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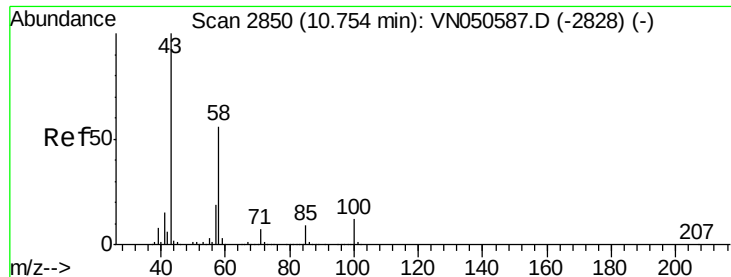
MMDadoda
 8/16/2018 1:18:21 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 232.39 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.7	32.5





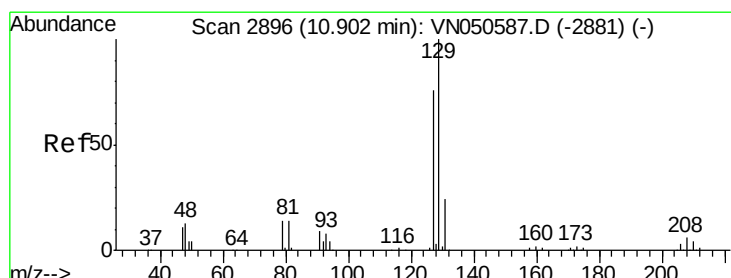
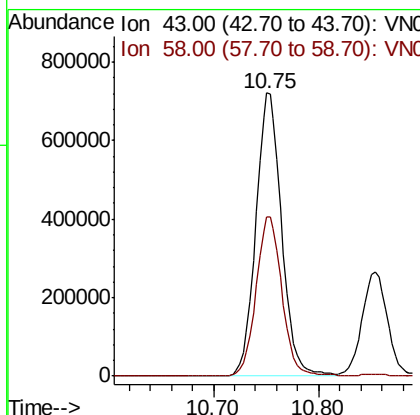
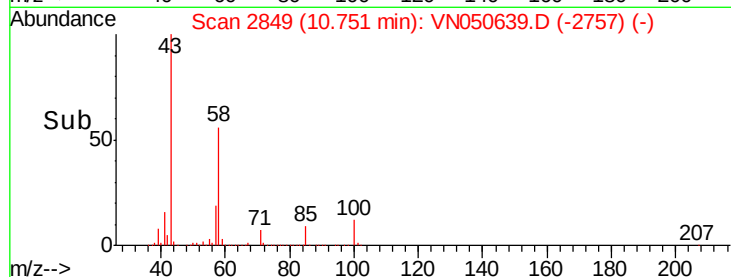
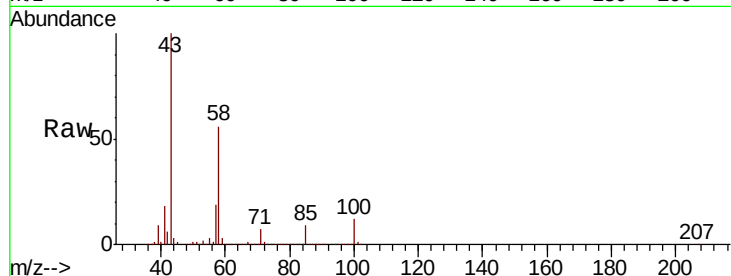
#59
2-Hexanone
Concen: 255.85 ug/l
RT: 10.75 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1226976
Ion Ratio Lower Upper
43 100
58 56.6 28.0 84.0

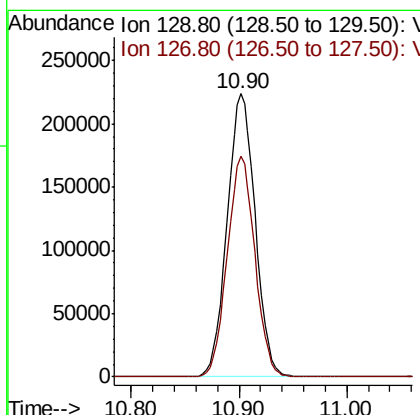
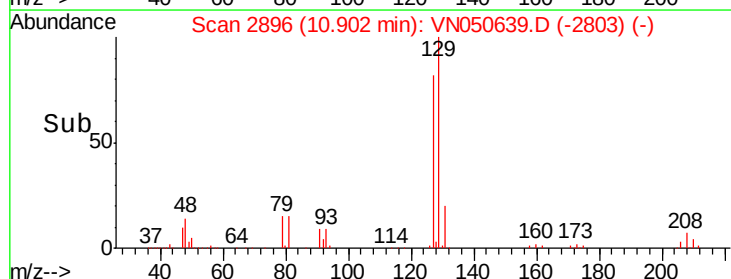
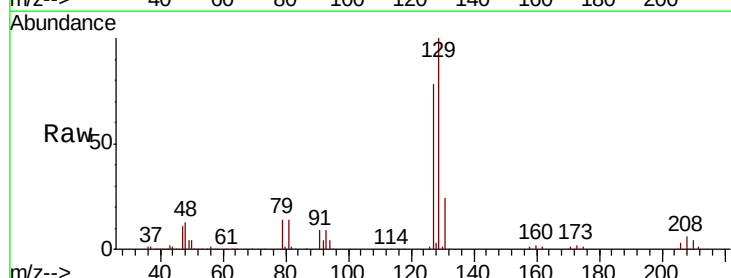
Manual Integrations
APPROVED

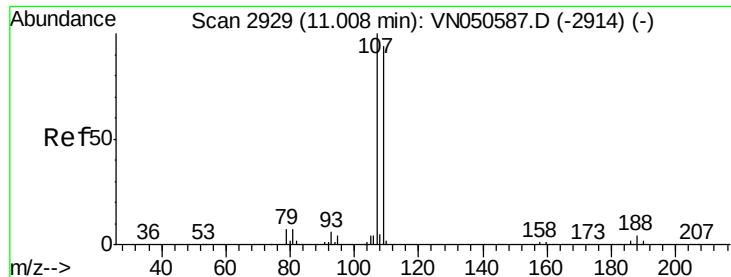
MMDadoda
8/16/2018 1:18:21 PM



#60
Dibromochloromethane
Concen: 50.71 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion: 129 Resp: 405079
Ion Ratio Lower Upper
129 100
127 77.0 38.9 116.7





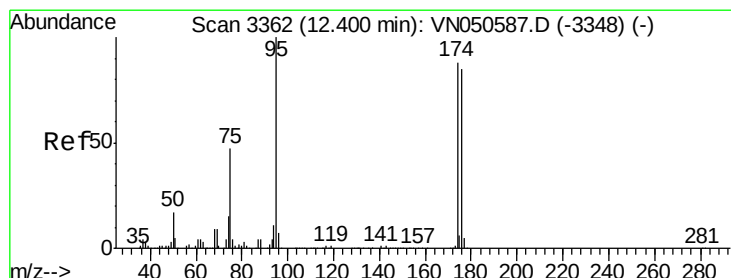
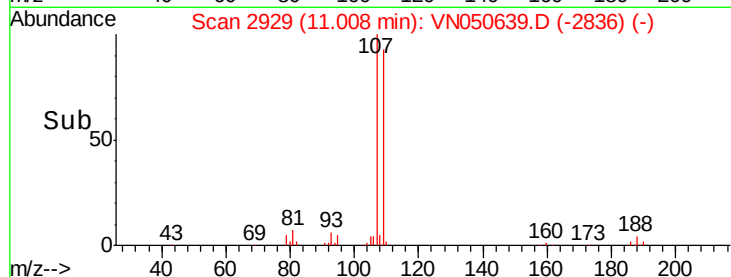
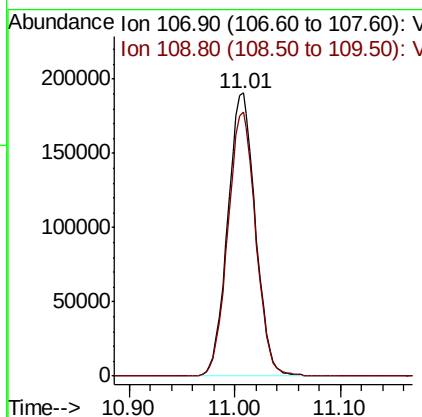
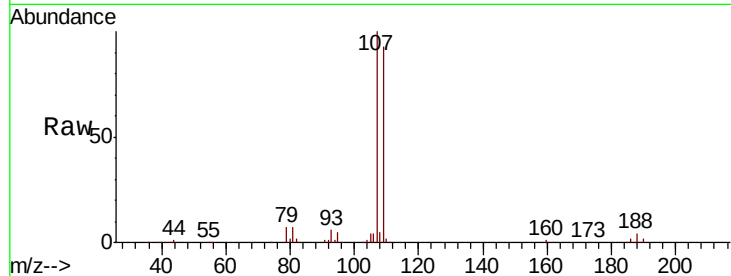
#61
 1,2-Dibromoethane
 Concen: 50.21 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.7	113.5

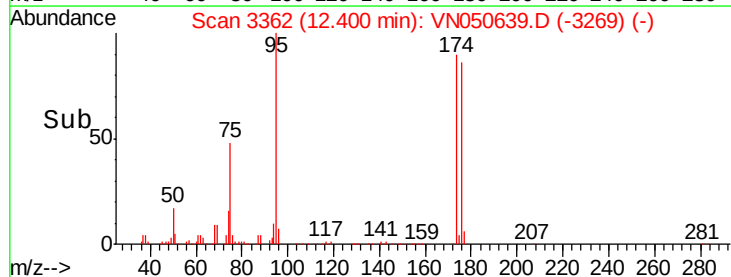
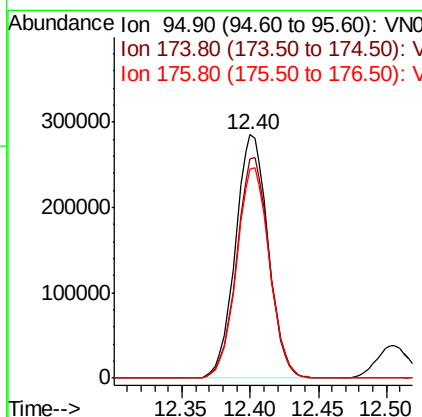
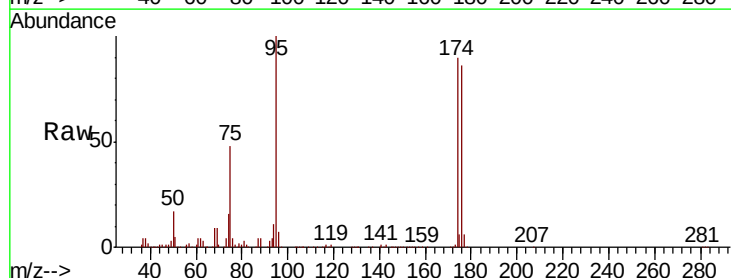
Manual Integrations
 APPROVED

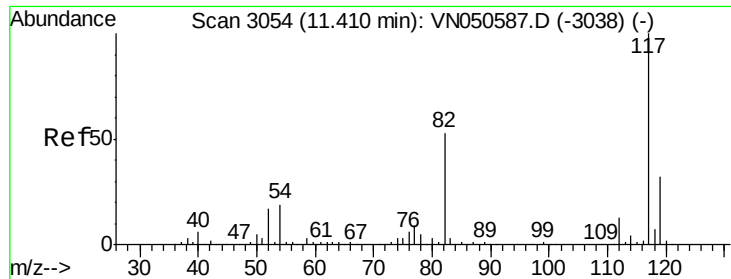
MMDadoda
 8/16/2018 1:18:21 PM



#62
 4-Bromofluorobenzene
 Concen: 49.86 ug/l
 RT: 12.40 min Scan# 3362
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.3	0.0	177.8
176	86.8	0.0	175.0





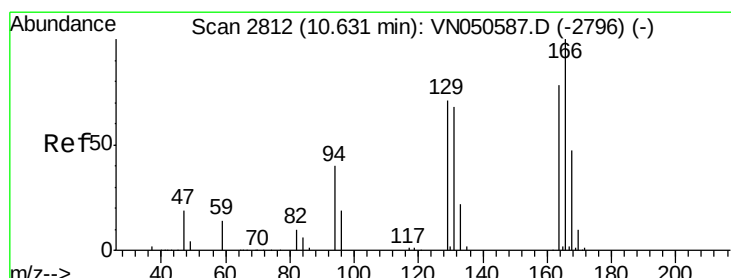
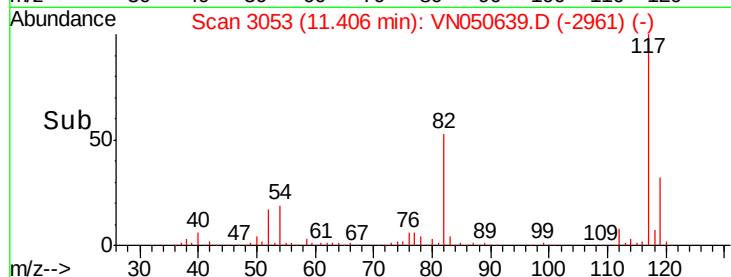
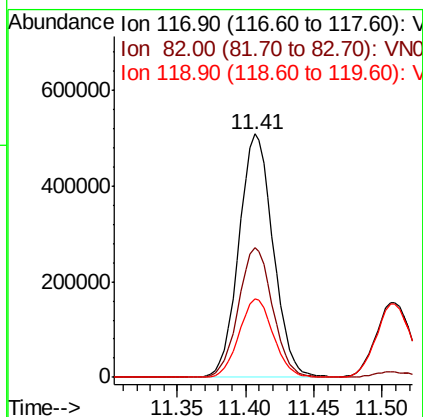
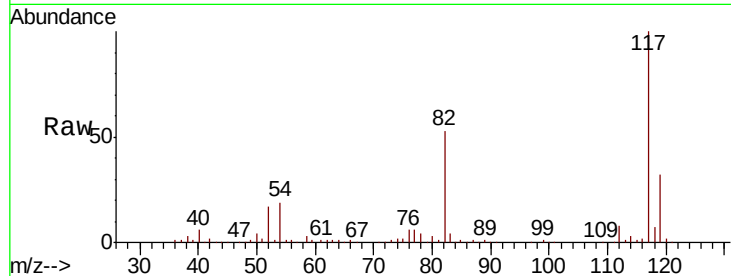
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.4	63.6
119	32.3	25.8	38.8

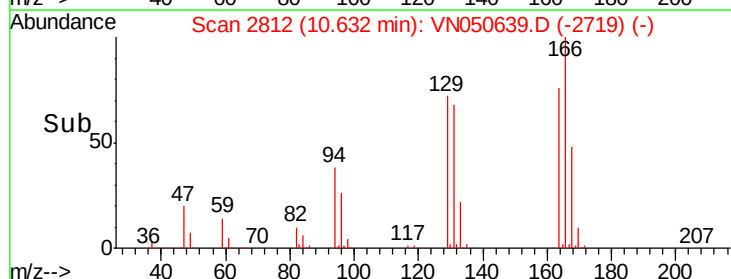
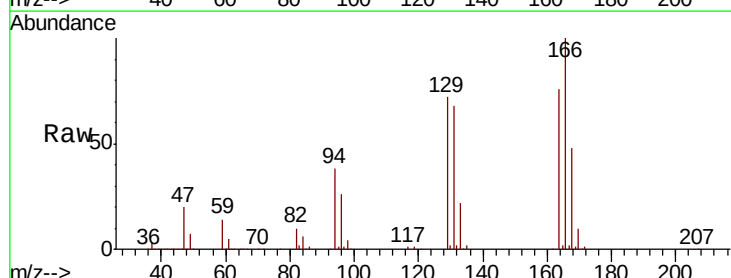
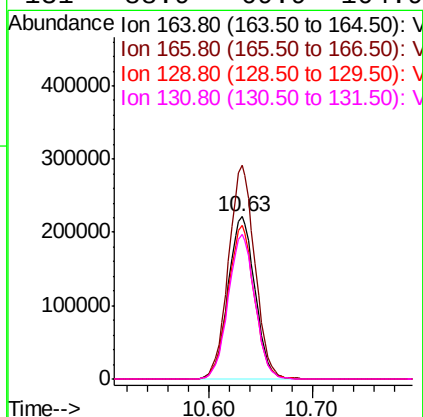
Manual Integrations
APPROVED

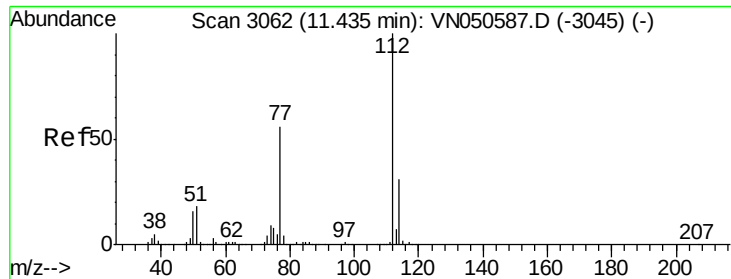
MMDadoda
8/16/2018 1:18:21 PM



#64
Tetrachloroethene
Concen: 48.86 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.6	102.1	153.1
129	94.8	72.7	109.1
131	88.9	69.9	104.9





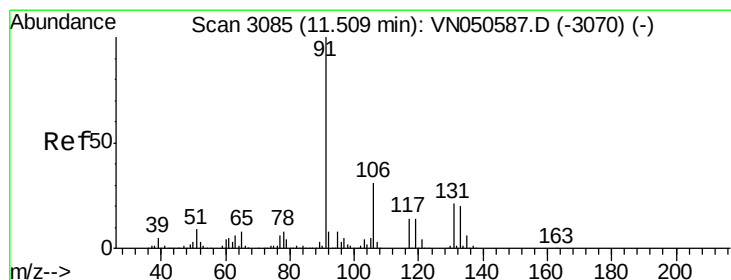
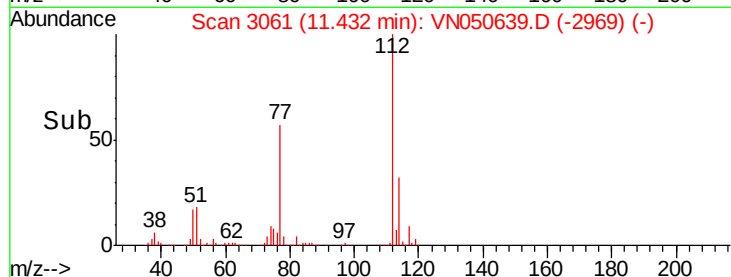
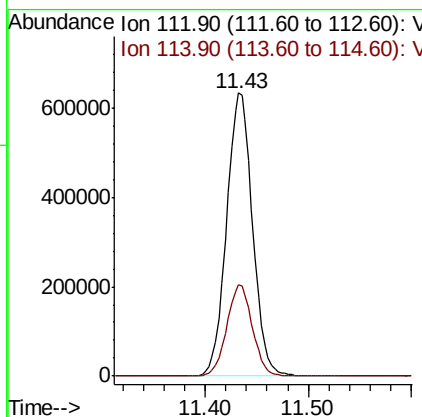
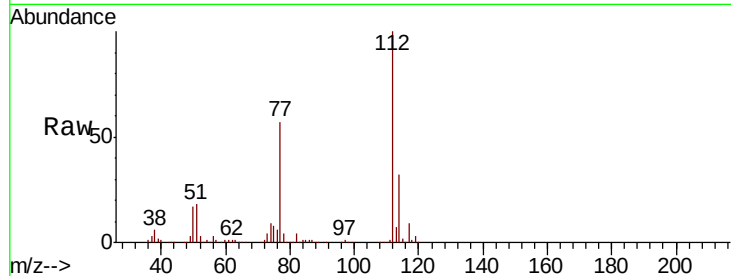
#65
Chlorobenzene
Concen: 50.14 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1107796
Ion Ratio Lower Upper
112 100
114 32.4 25.2 37.8

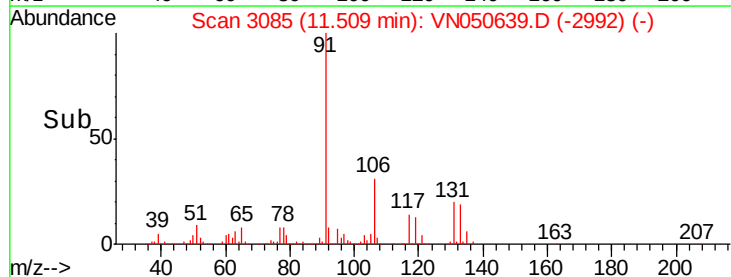
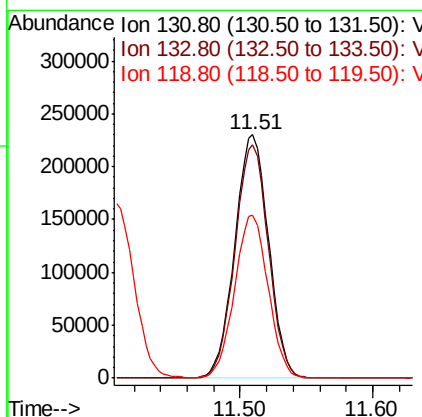
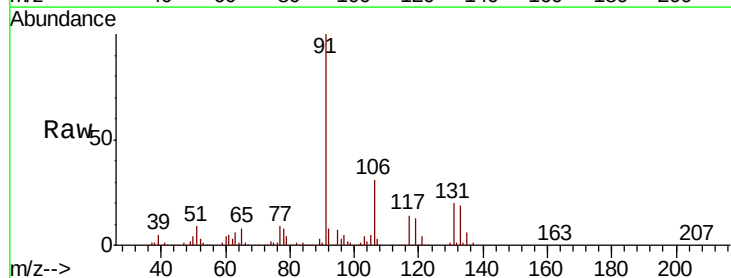
Manual Integrations
APPROVED

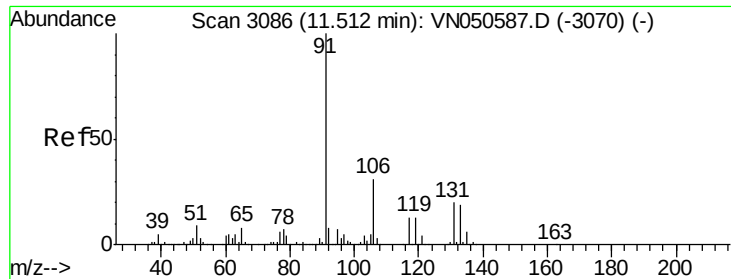
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.19 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion:131 Resp: 407450
Ion Ratio Lower Upper
131 100
133 95.0 47.6 142.9
119 66.4 33.1 99.3





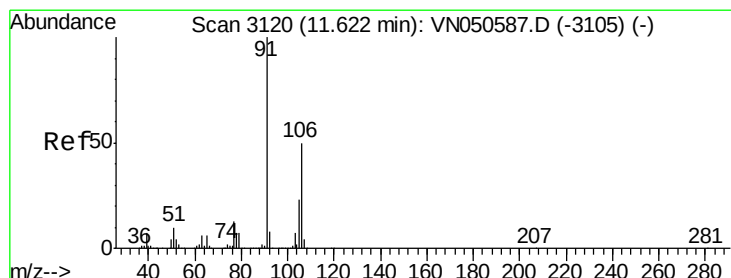
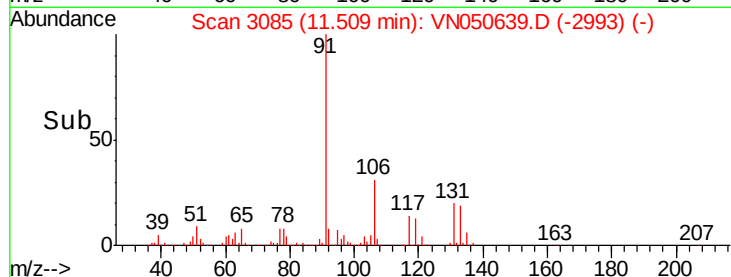
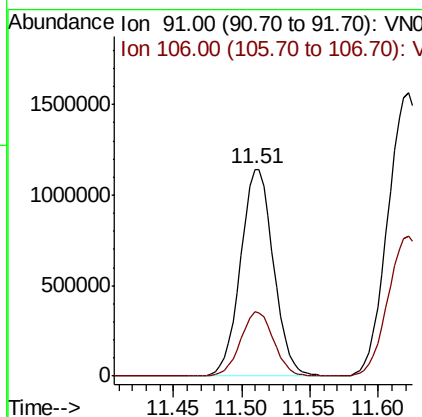
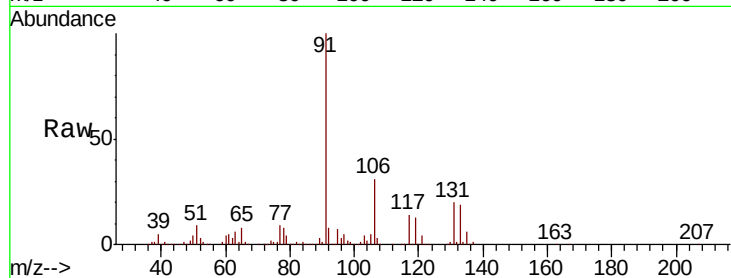
#67
Ethyl Benzene
Concen: 53.81 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1919863
Ion Ratio Lower Upper
91 100
106 30.9 24.8 37.2

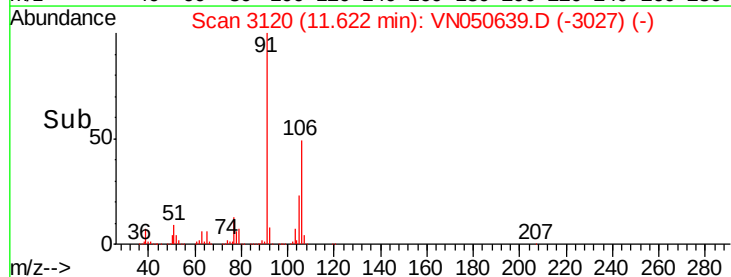
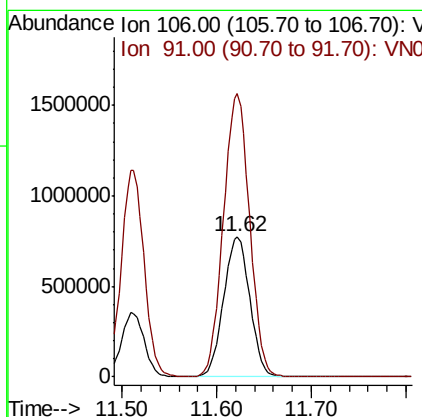
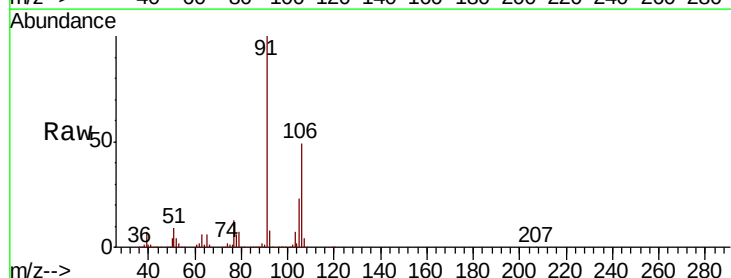
Manual Integrations
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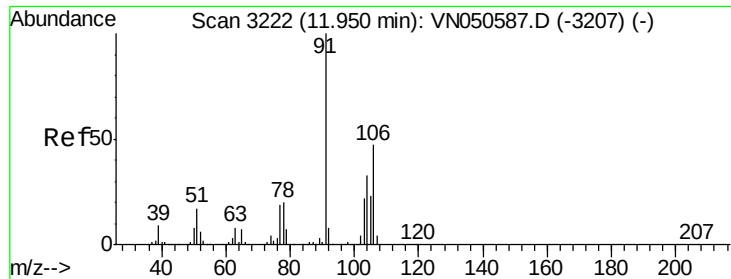
MMDadoda
8/16/2018 1:18:21 PM



#68
m/p-Xylenes
Concen: 109.07 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion: 106 Resp: 1488282
Ion Ratio Lower Upper
106 100
91 202.2 161.5 242.3





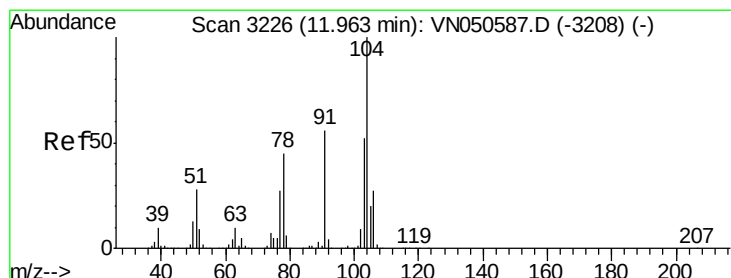
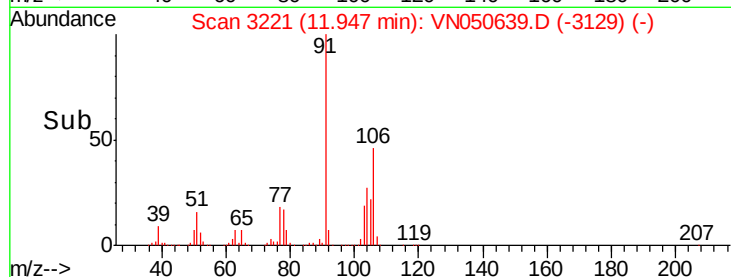
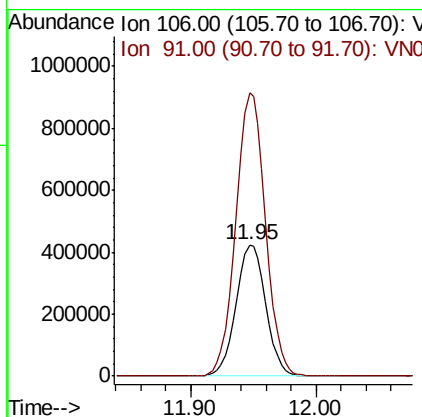
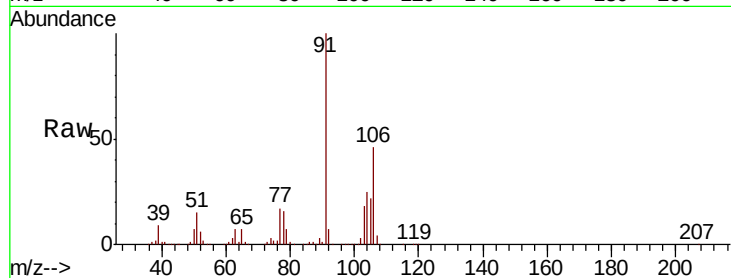
#69
o-Xylene
Concen: 53.54 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	215.0	106.8	320.4

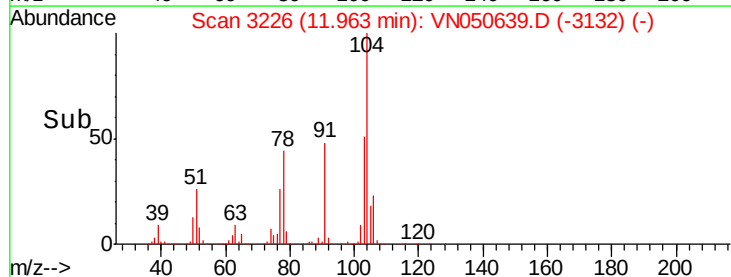
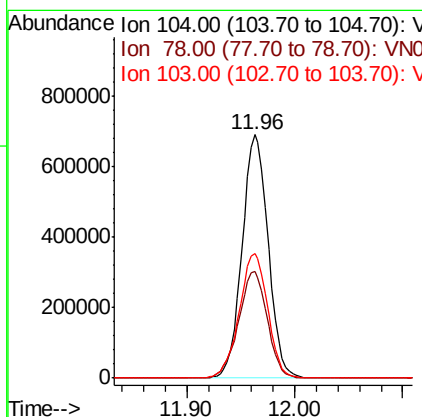
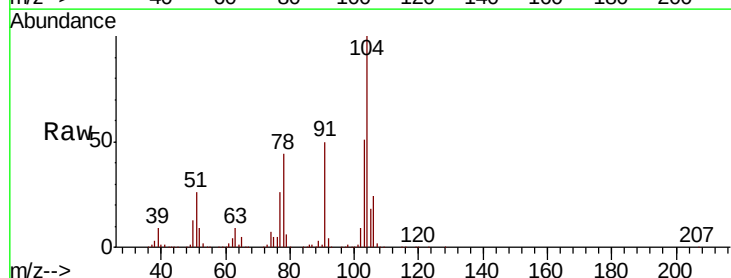
Manual Integrations
APPROVED

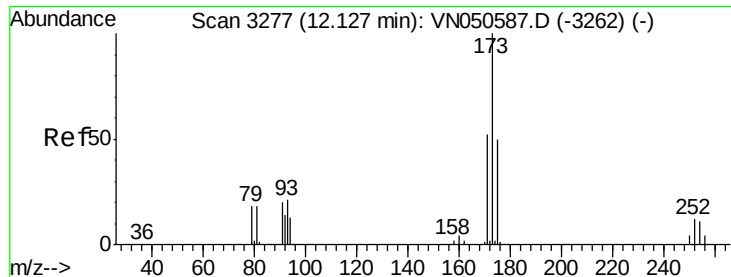
MMDadoda
8/16/2018 1:18:21 PM



#70
Styrene
Concen: 50.19 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.3	39.1	58.7
103	55.9	44.9	67.3





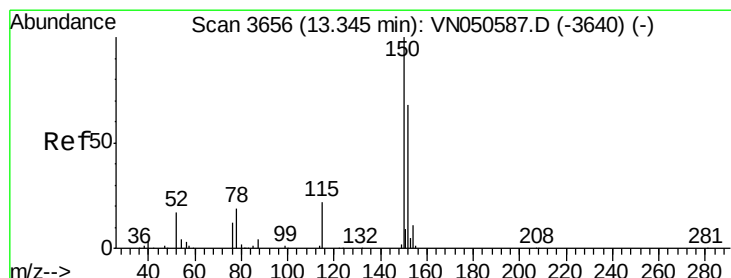
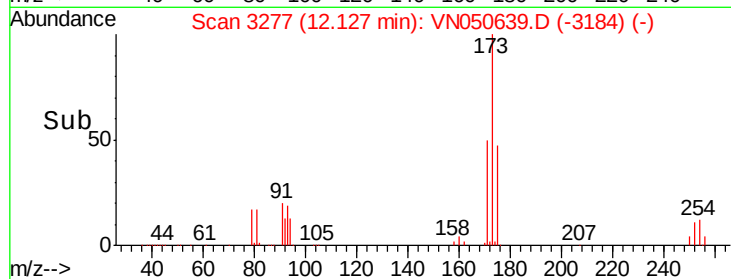
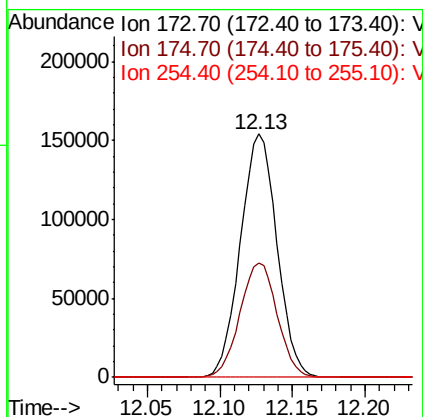
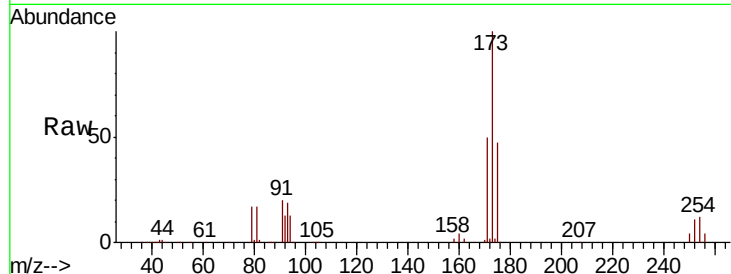
#71
Bromoform
Concen: 49.35 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.4	73.2
254	0.1	0.0	0.0#

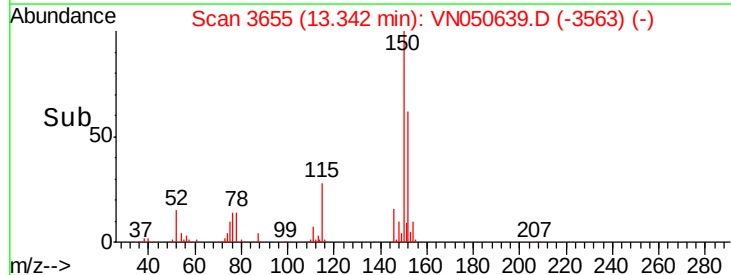
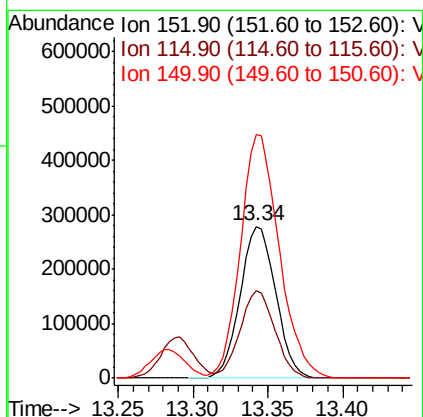
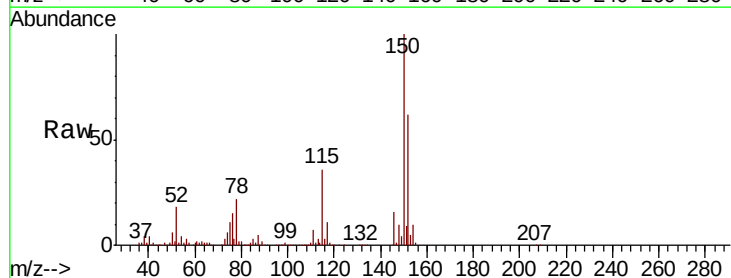
Manual Integrations
APPROVED

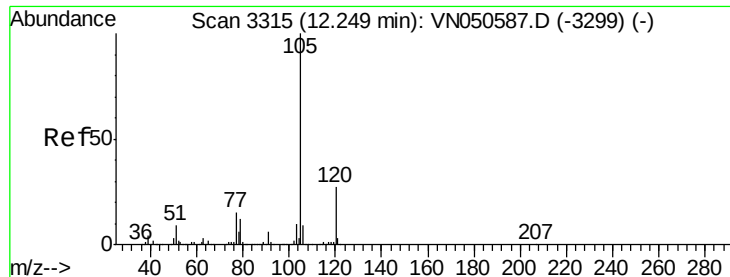
MMDadoda
8/16/2018 1:18:21 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3655
Delta R.T. -0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	28.1	84.2
150	175.2	0.0	347.8





#73

Isopropylbenzene

Concen: 52.11 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1874191

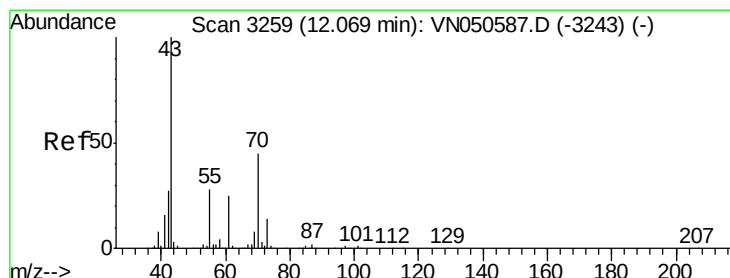
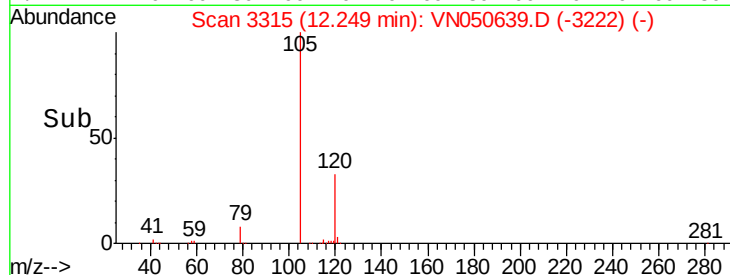
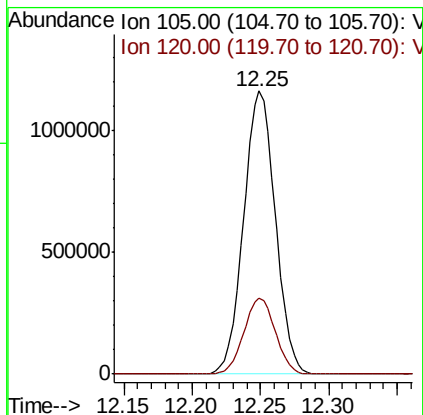
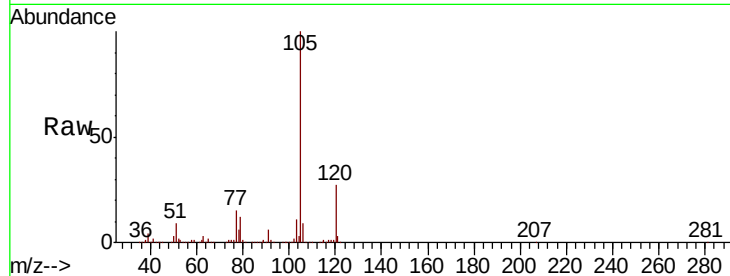
Ion Ratio Lower Upper

105 100

120 26.7 13.4 40.1

Manual Integrations
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#74

N-ethyl acetate

Concen: 47.71 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Tgt Ion: 43 Resp: 446412

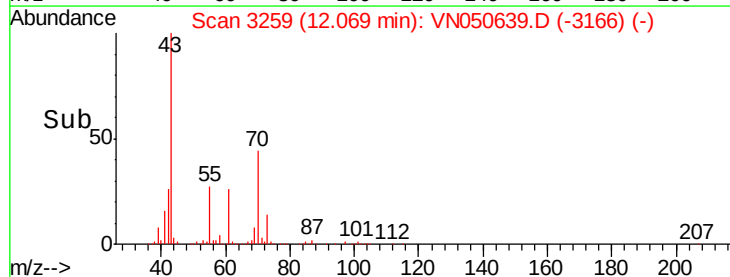
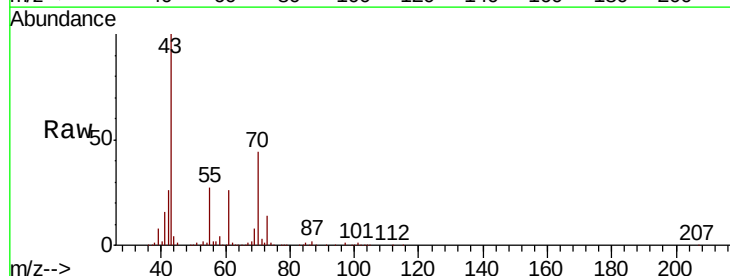
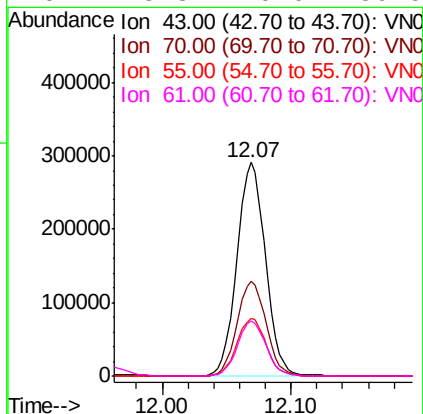
Ion Ratio Lower Upper

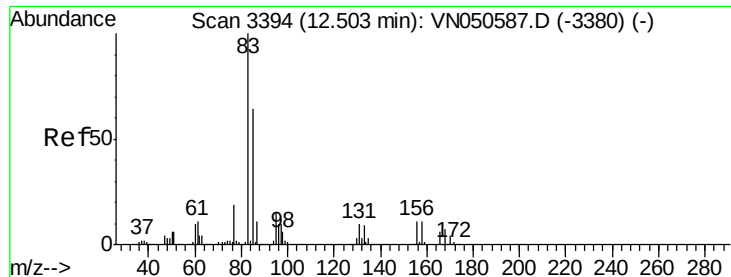
43 100

70 45.2 35.9 53.9

55 27.7 22.2 33.4

61 25.8 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 51.05 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

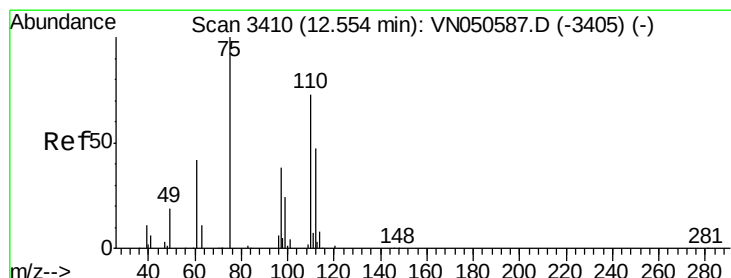
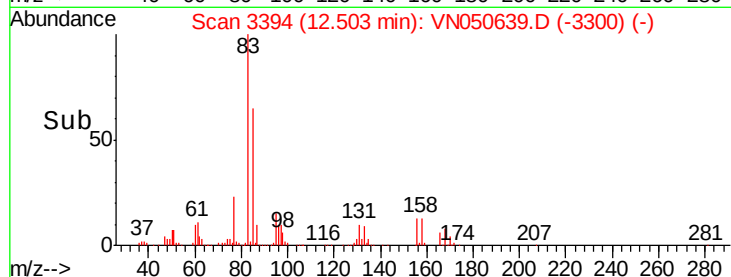
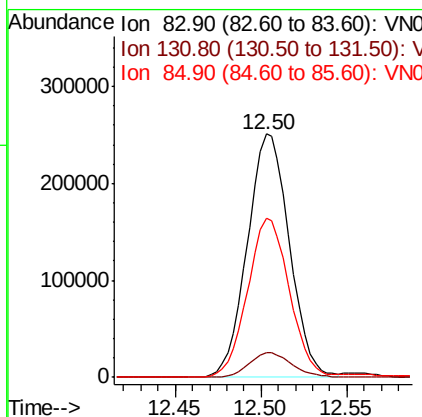
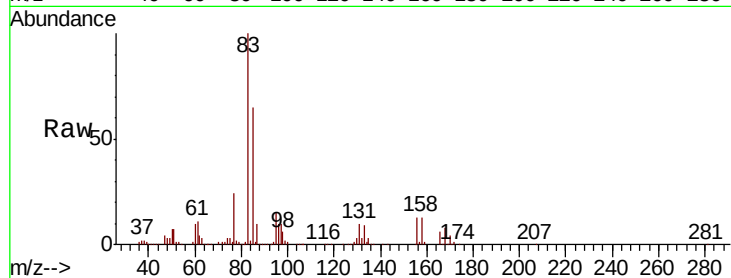
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	425858
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.3	15.9
85	64.8	32.1	96.5

Manual Integrations
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8/16/2018 1:18:21 PM



#76

1,2,3-Trichloropropane

Concen: 45.35 ug/l m

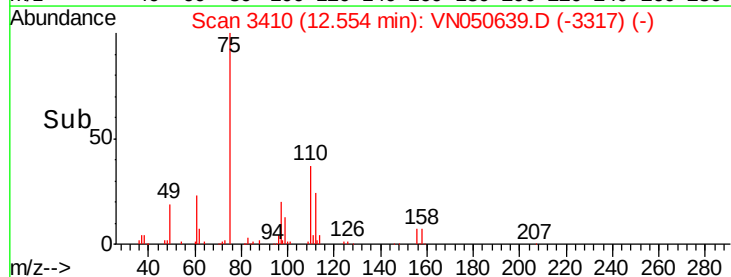
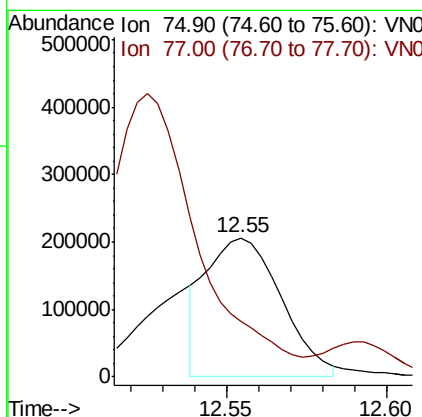
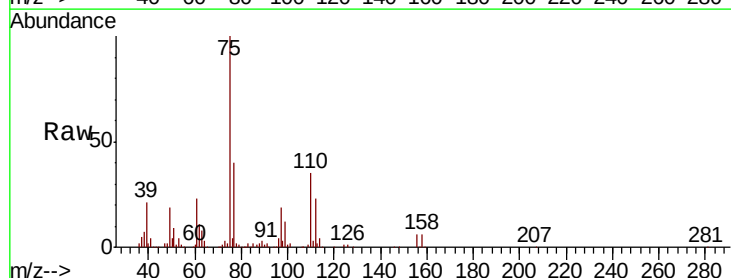
RT: 12.55 min Scan# 3410

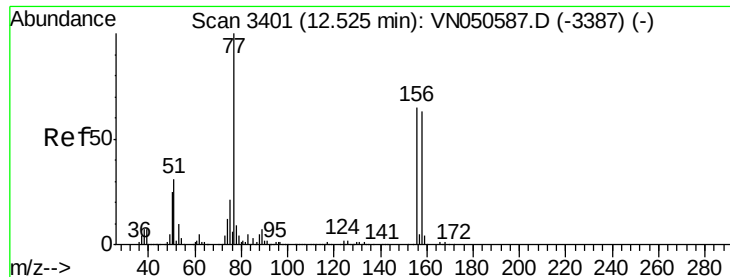
Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Tgt Ion:	75	Resp:	337981
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 47.96 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:156 Resp: 468308

Ion Ratio Lower Upper

156 100

77 177.6 89.0 267.1

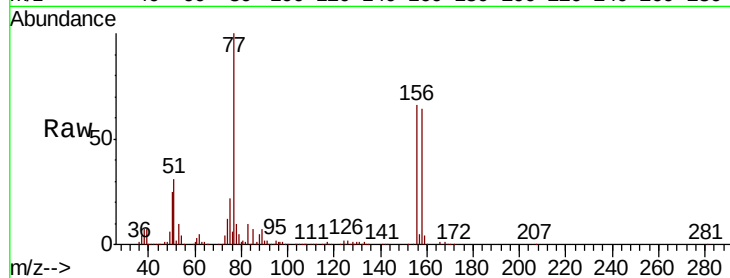
158 99.0 48.5 145.6

Manual Integrations

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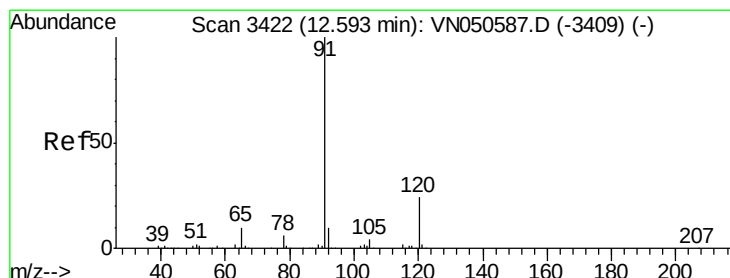
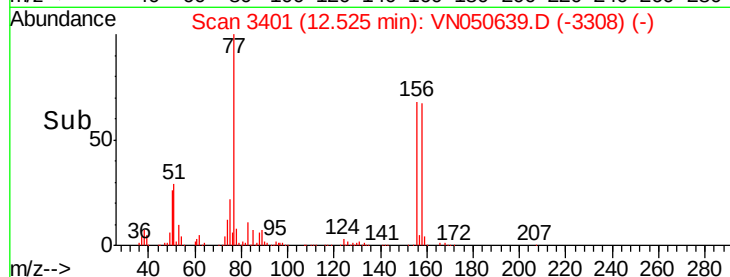
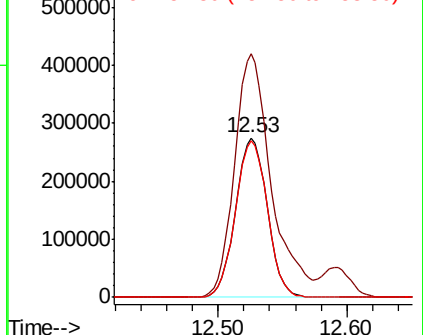
8/16/2018 1:18:21 PM



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: 54.15 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050639.D

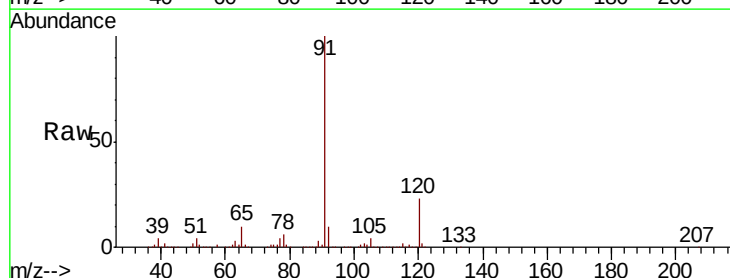
Acq: 15 Aug 2018 8:26

Tgt Ion: 91 Resp: 2171546

Ion Ratio Lower Upper

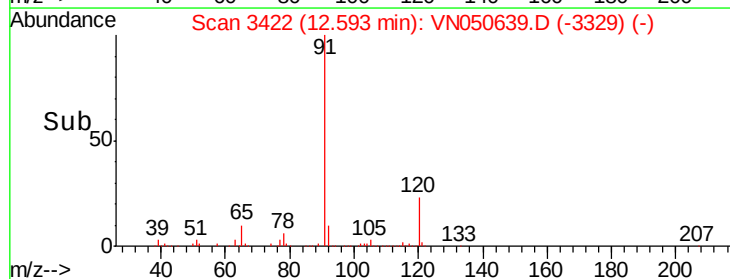
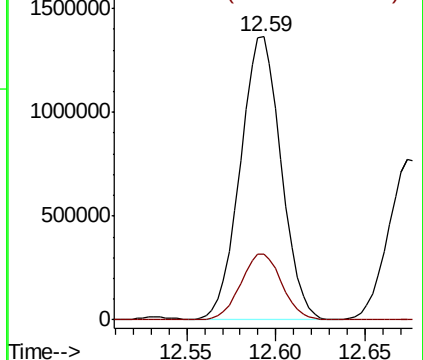
91 100

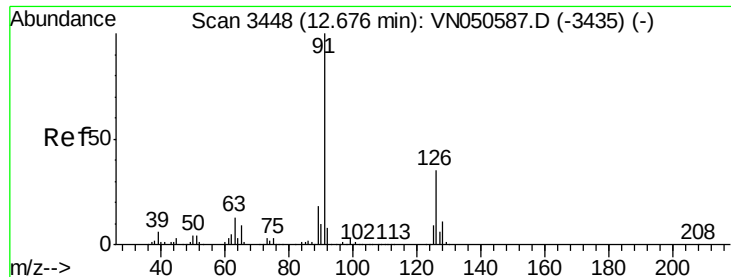
120 23.5 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.83 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 1270901

Ion Ratio Lower Upper

91 100

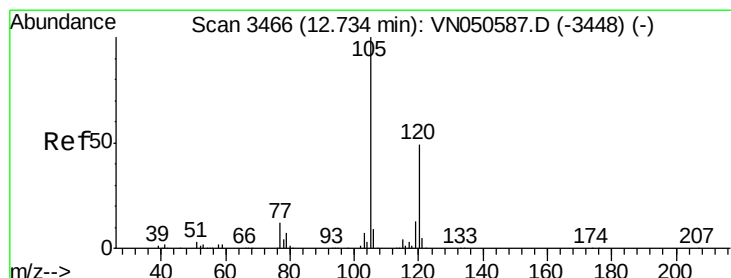
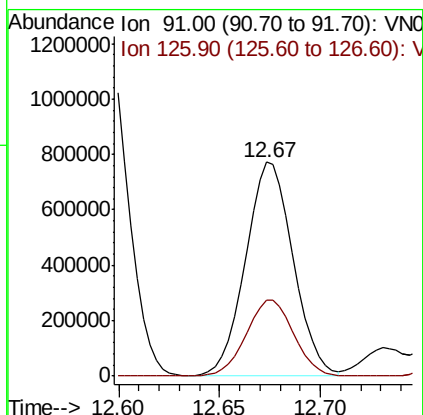
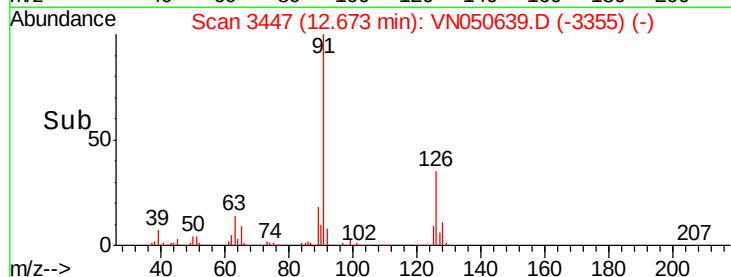
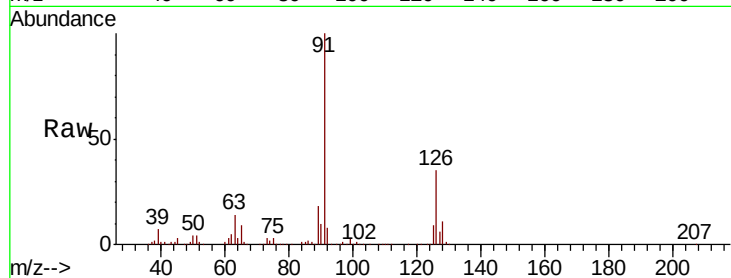
126 35.7 17.6 52.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 54.18 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN050639.D

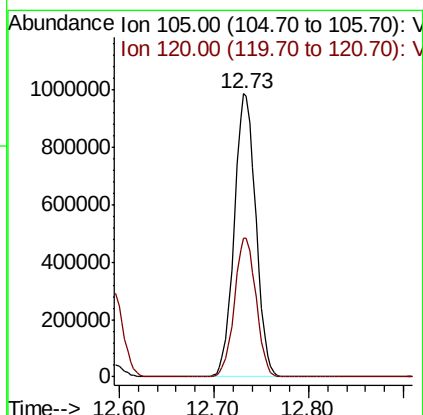
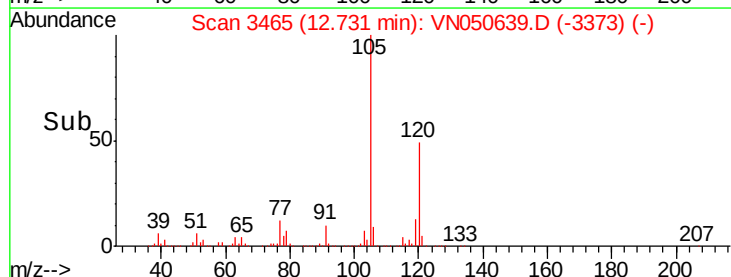
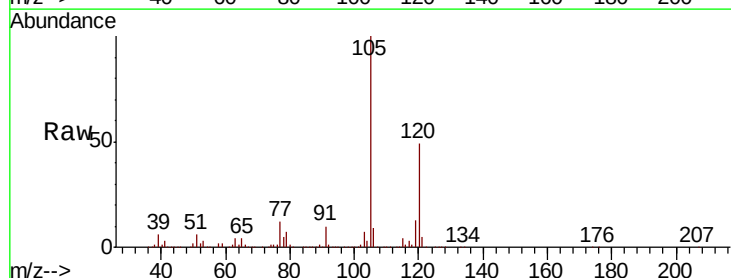
Acq: 15 Aug 2018 8:26

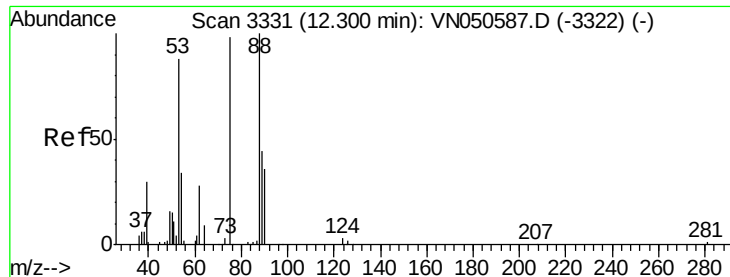
Tgt Ion:105 Resp: 1559964

Ion Ratio Lower Upper

105 100

120 49.1 24.7 74.1





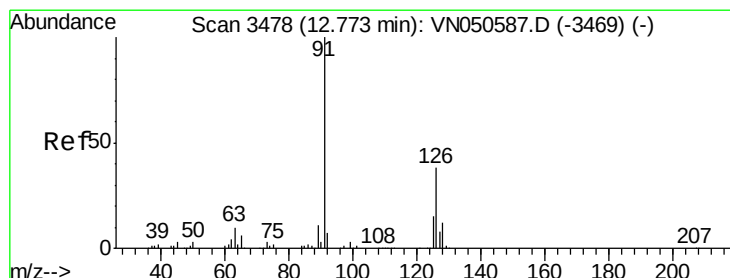
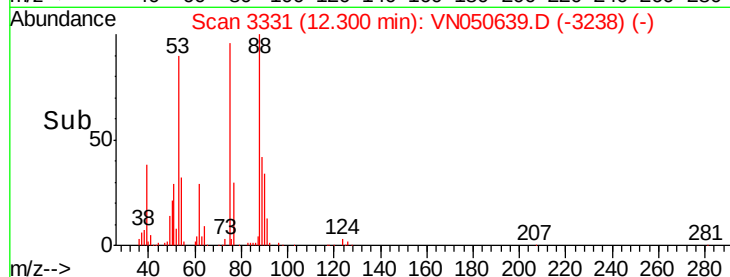
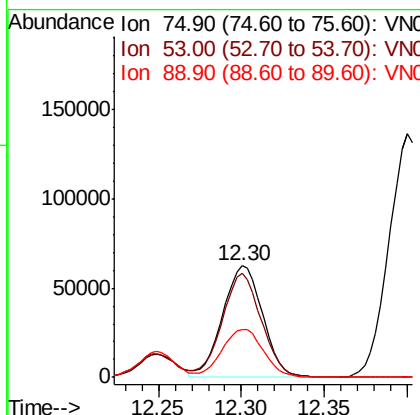
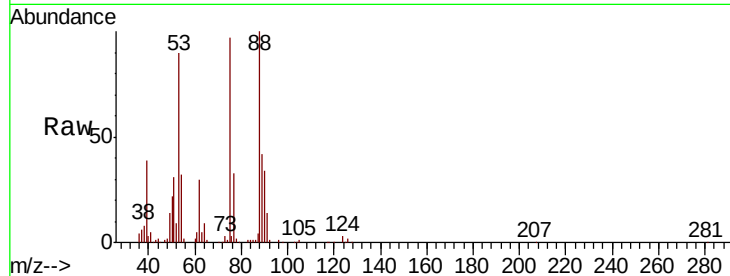
#81
trans-1,4-Dichloro-2-butene
Concen: 50.98 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.5	72.2	108.2
89	44.2	36.3	54.5

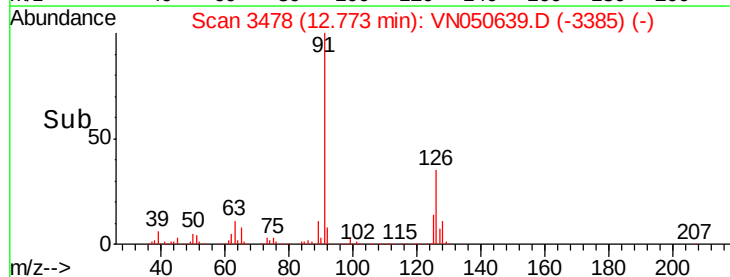
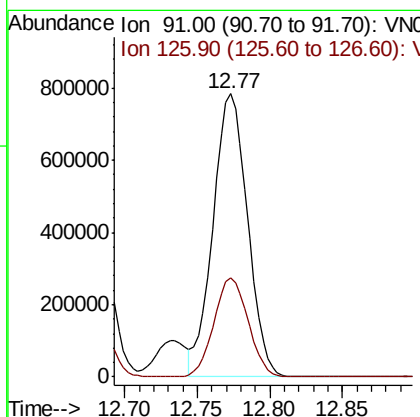
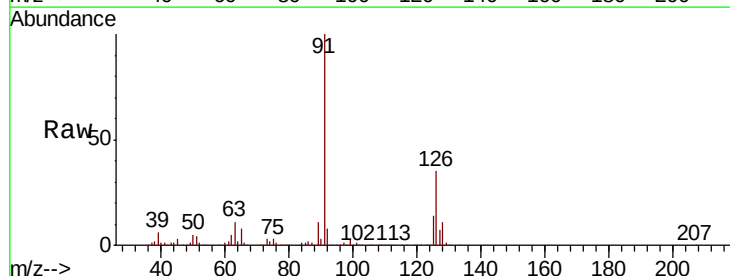
Manual Integrations
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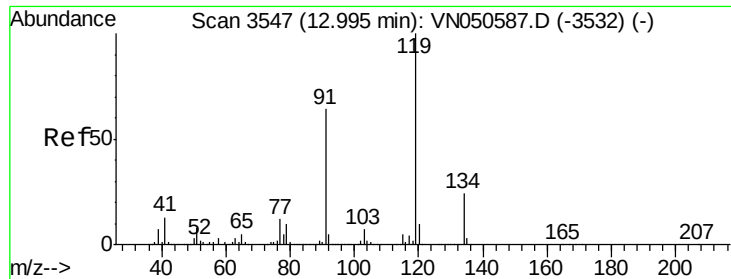
MMDadoda
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#82
4-Chlorotoluene
Concen: 52.53 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	52.0





#83

tert-Butylbenzene

Concen: 52.24 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:119 Resp: 1305852

Ion Ratio Lower Upper

119 100

91 63.4 32.2 96.6

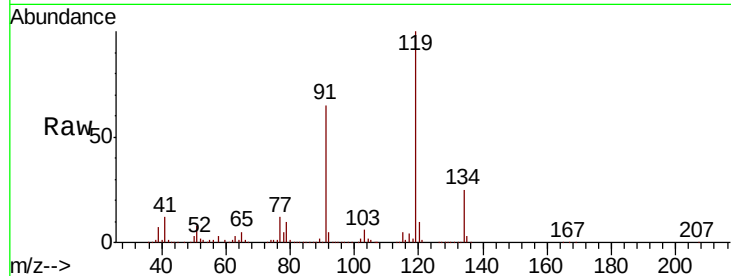
134 27.1 13.4 40.2

Manual Integrations

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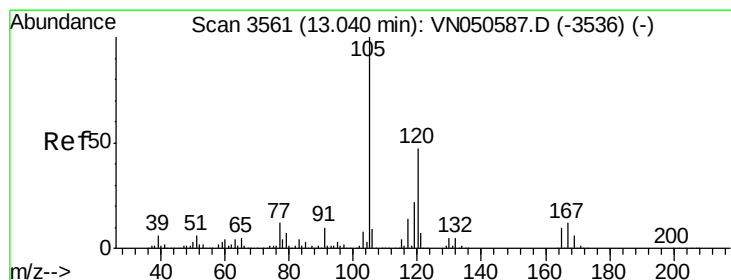
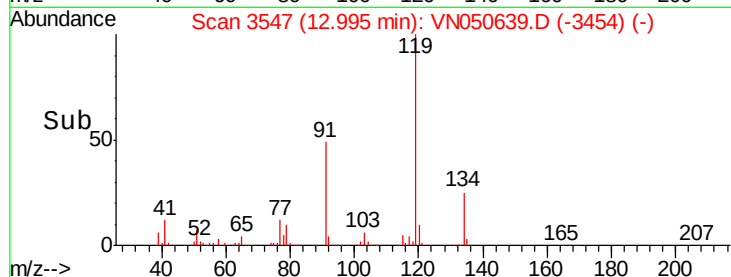
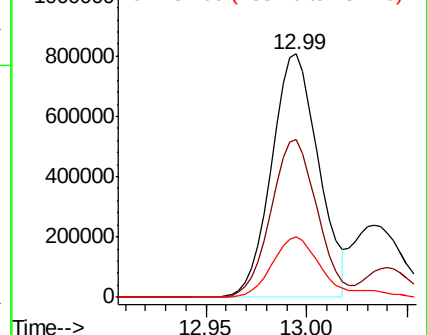
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 54.89 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. 0.00 min

Lab File: VN050639.D

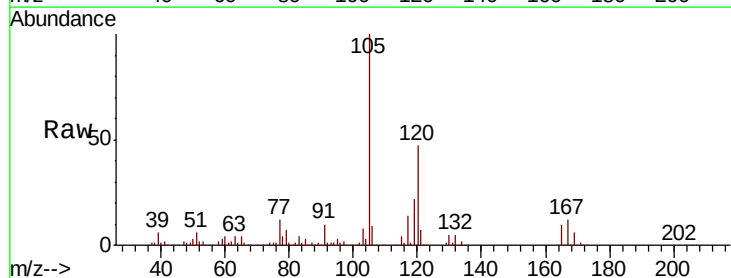
Acq: 15 Aug 2018 8:26

Tgt Ion:105 Resp: 1586361

Ion Ratio Lower Upper

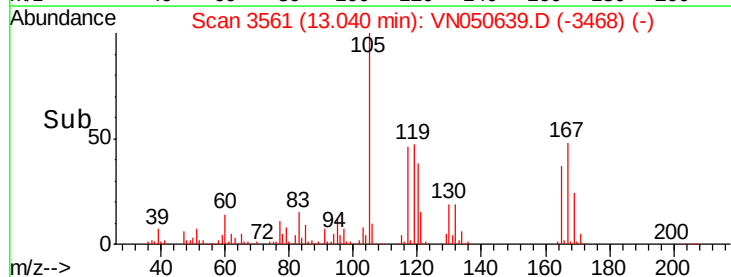
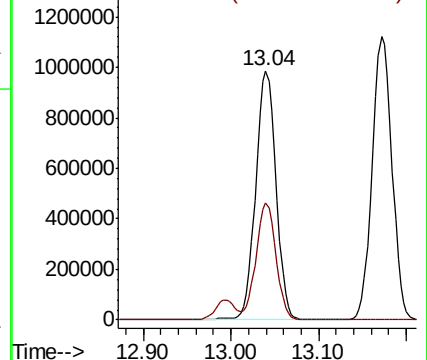
105 100

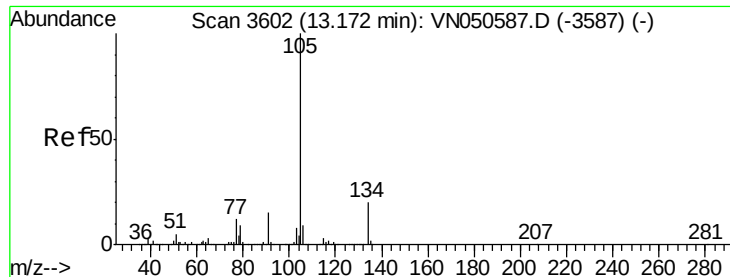
120 46.2 23.2 69.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 53.91 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1760852

Ion Ratio Lower Upper

105 100

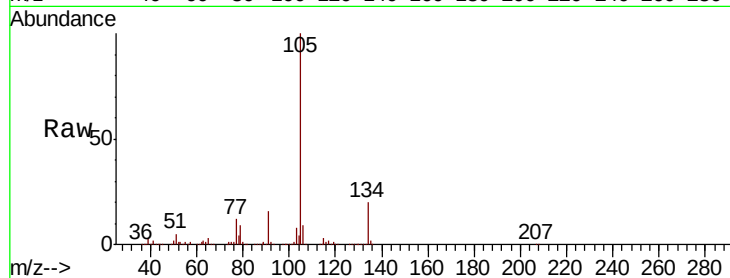
134 20.2 10.1 30.3

Manual Integrations

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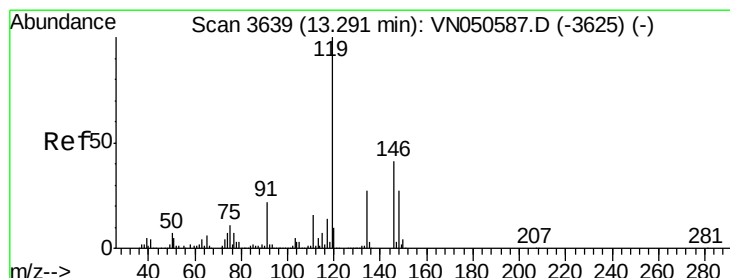
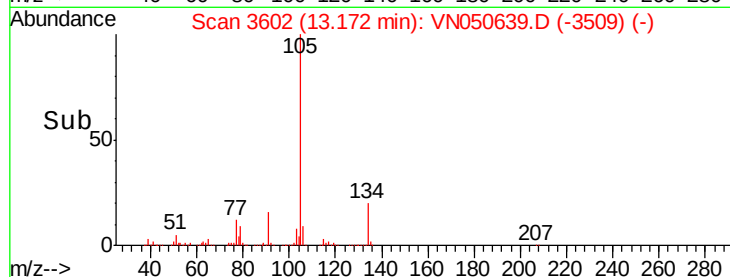
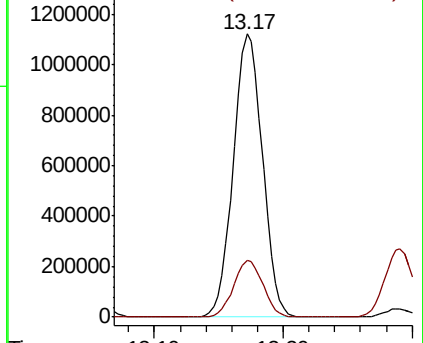
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 55.99 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050639.D

Acq: 15 Aug 2018 8:26

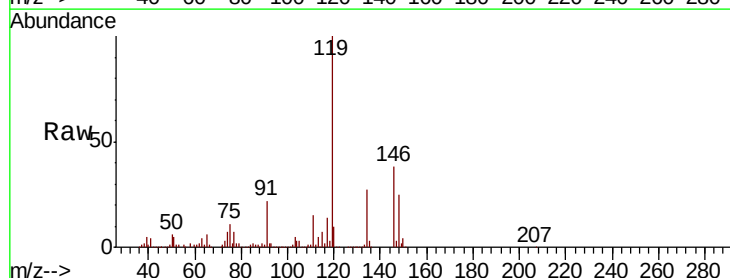
Tgt Ion:119 Resp: 1549672

Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.4

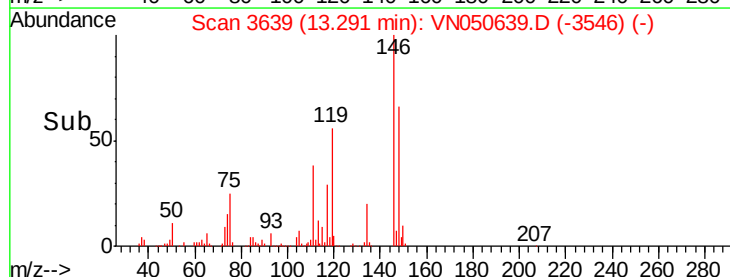
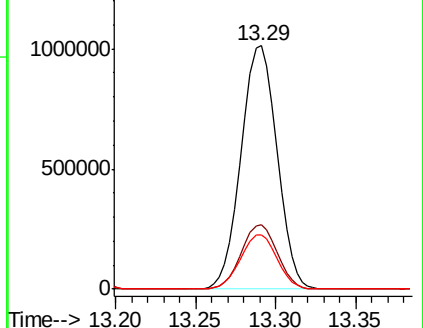
91 22.5 11.2 33.6

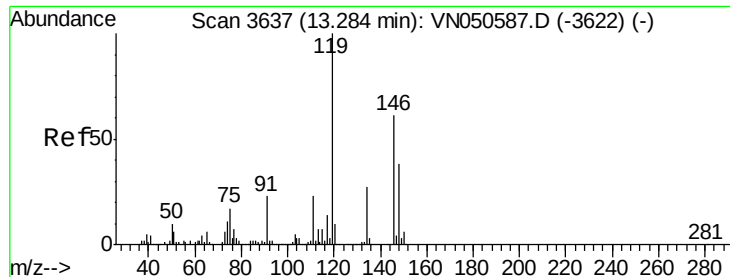


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





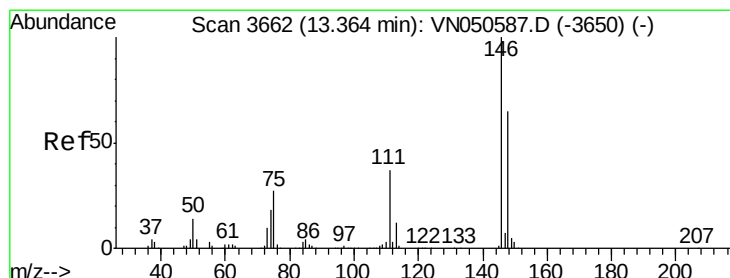
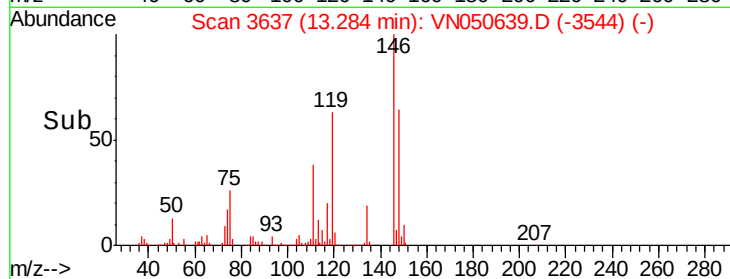
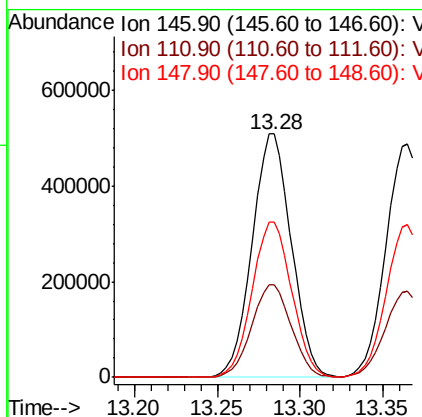
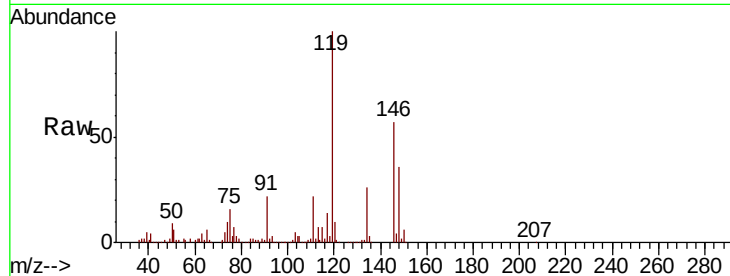
#87
 1,3-Dichlorobenzene
 Concen: 50.27 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.2	57.6
148	64.7	31.9	95.7

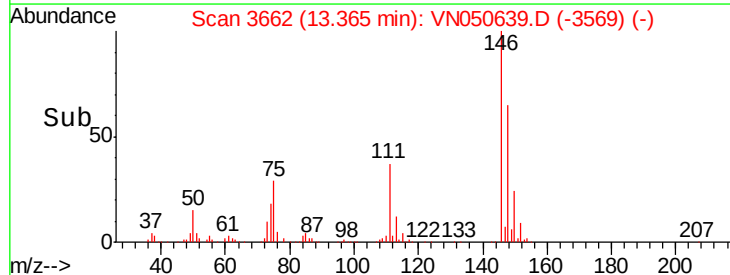
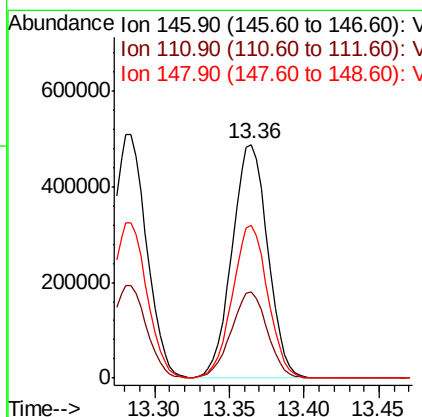
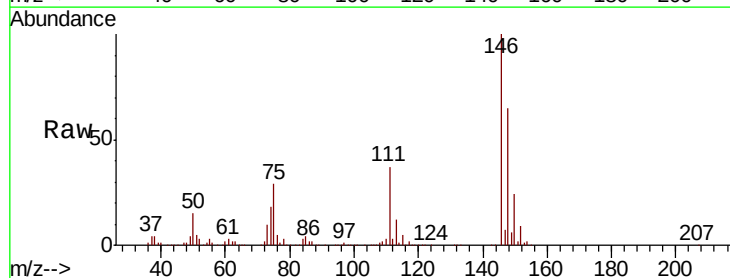
Manual Integrations
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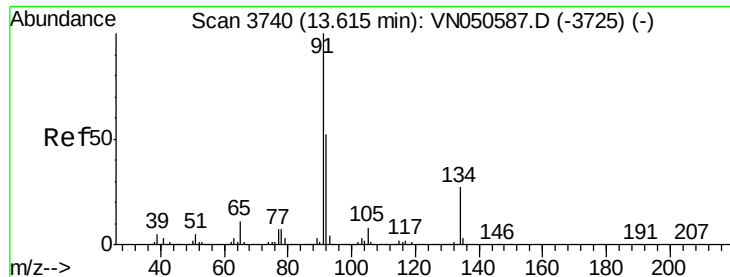
MMDadoda
 8/16/2018 1:18:21 PM



#88
 1,4-Dichlorobenzene
 Concen: 49.19 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.8	56.4
148	64.8	32.3	96.8





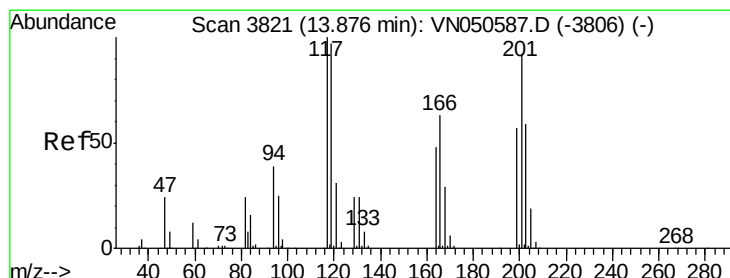
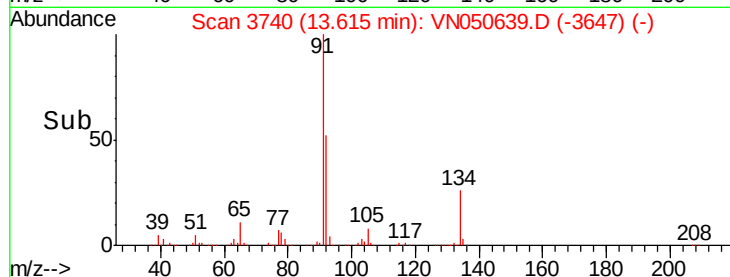
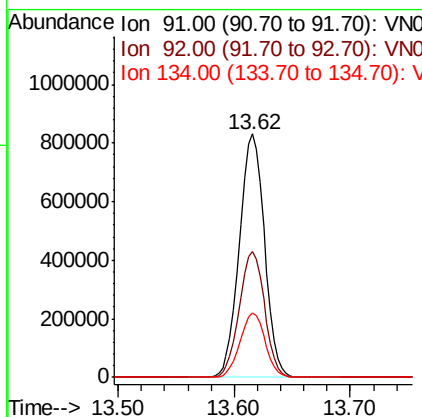
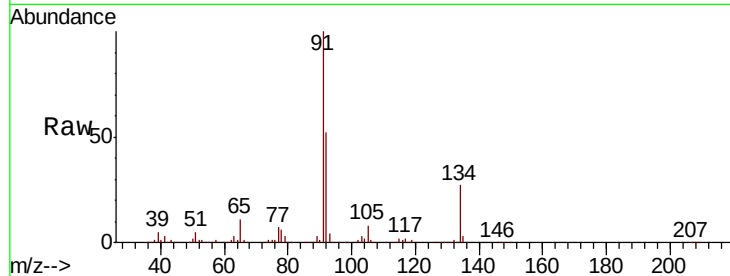
#89
n-Butylbenzene
Concen: 55.99 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.8	26.3	78.8
134	26.4	13.3	39.9

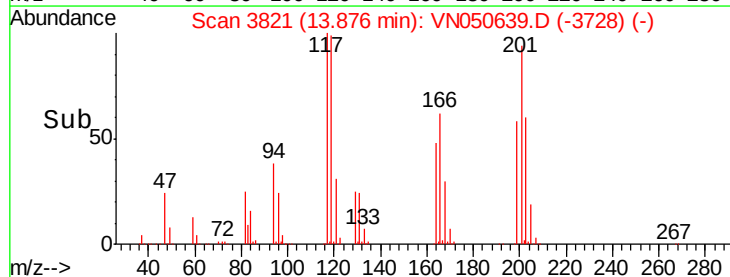
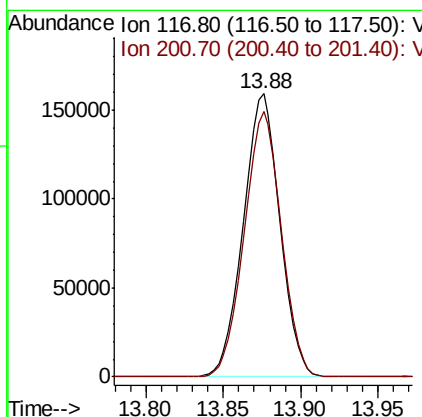
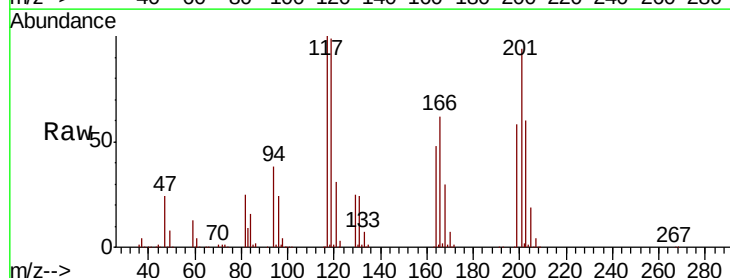
Manual Integrations
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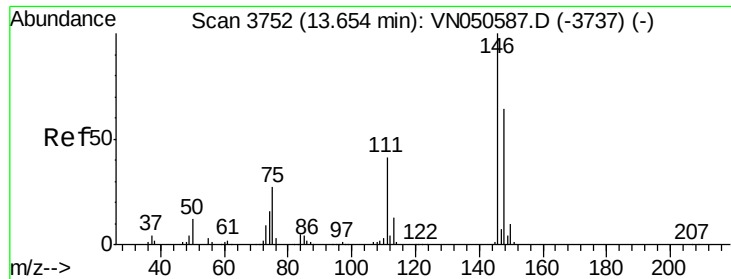
MMDadoda
8/16/2018 1:18:21 PM



#90
Hexachloroethane
Concen: 47.23 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.7	45.5	136.5





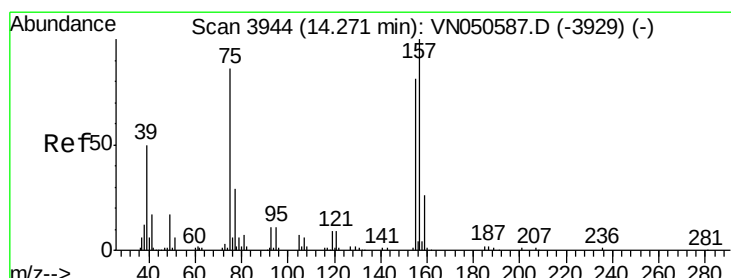
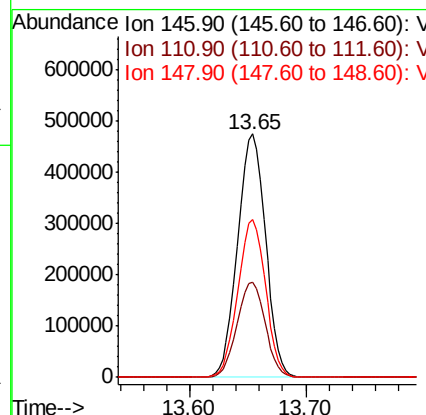
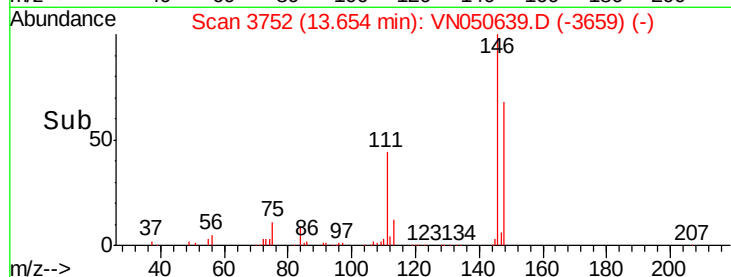
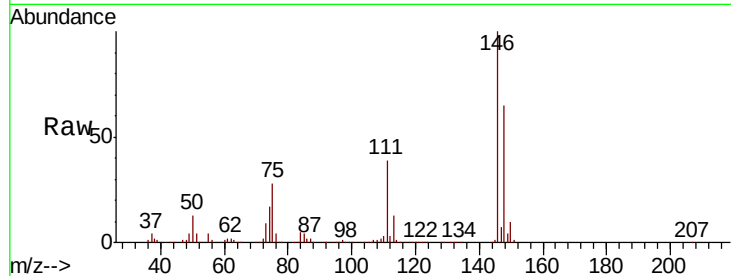
#91
 1,2-Dichlorobenzene
 Concen: 48.91 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.8	59.4
148	64.1	32.3	96.8

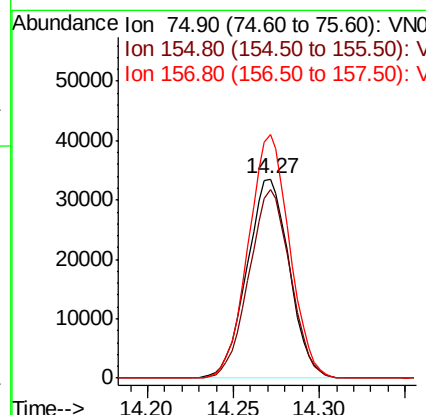
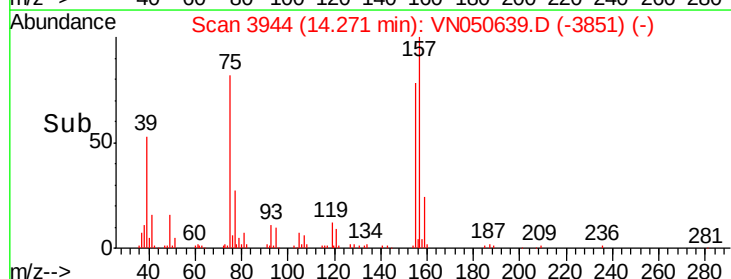
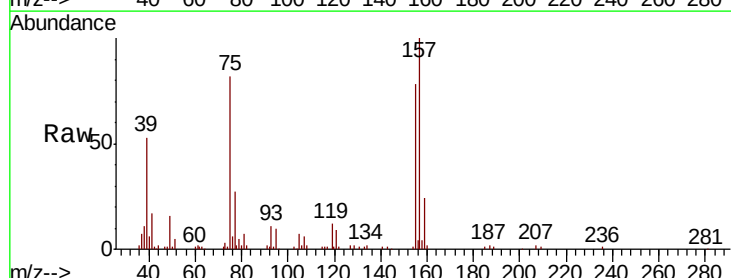
Manual Integrations
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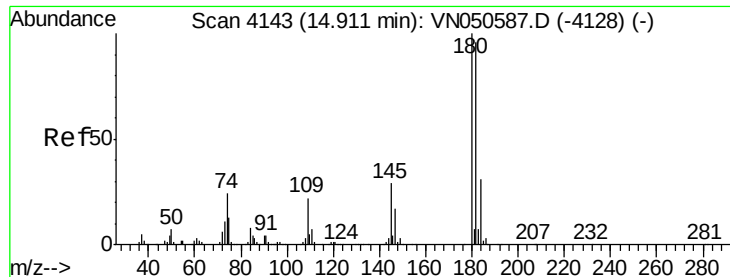
MMDadoda
 8/16/2018 1:18:21 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 44.74 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.2	46.6	139.8
157	118.7	58.1	174.2





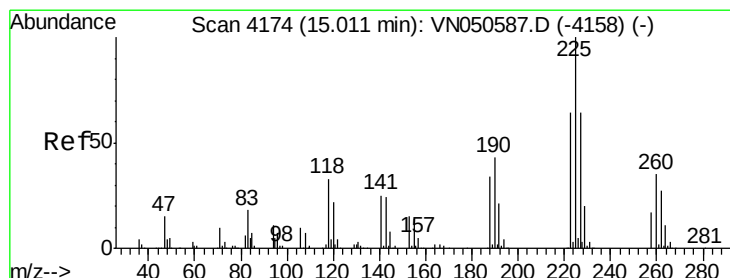
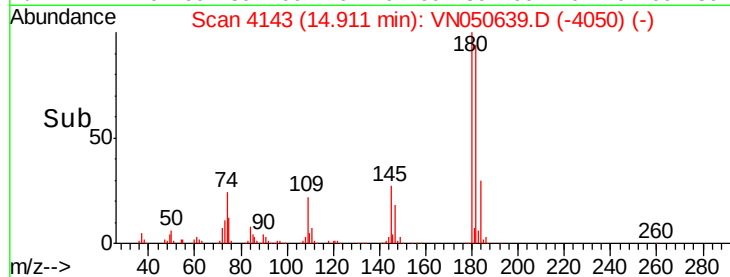
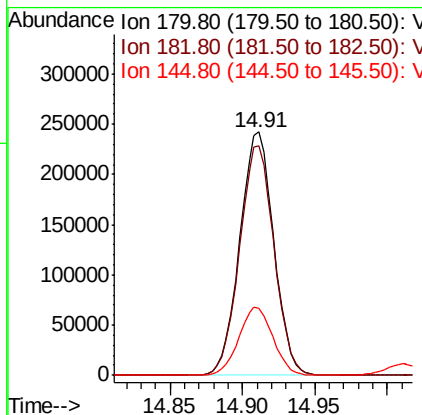
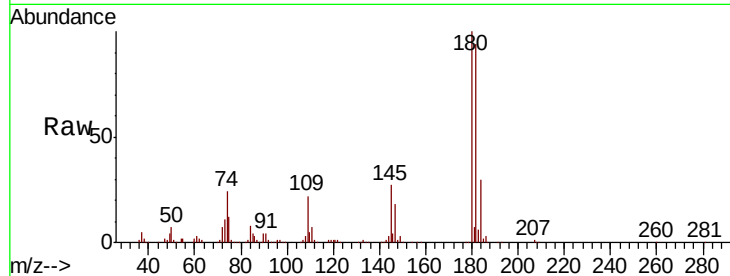
#93
 1,2,4-Trichlorobenzene
 Concen: 47.55 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.4	47.9	143.7	
145	28.1	14.4	43.4	

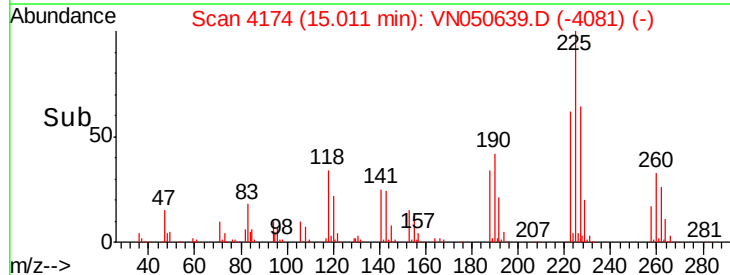
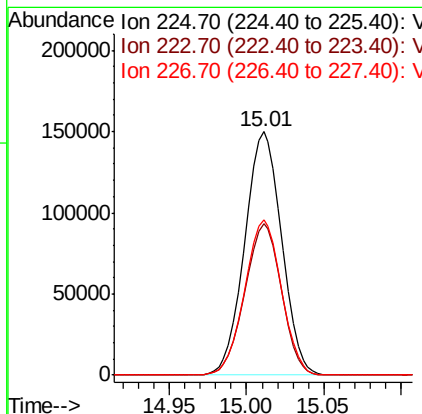
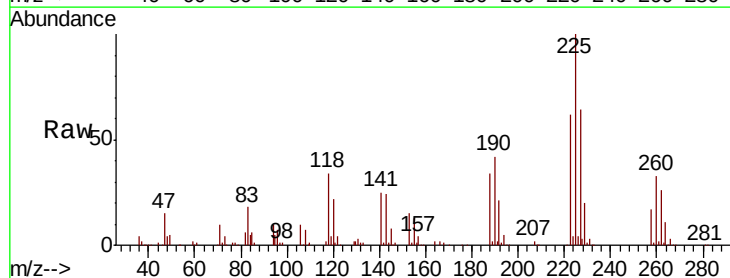
Manual Integrations
 APPROVED

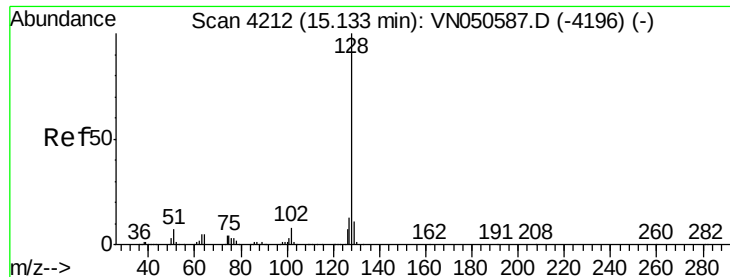
MMDadoda
 8/16/2018 1:18:21 PM



#94
 Hexachlorobutadiene
 Concen: 50.11 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050639.D
 Acq: 15 Aug 2018 8:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	61.7	32.1	96.3	
227	63.4	32.0	96.2	





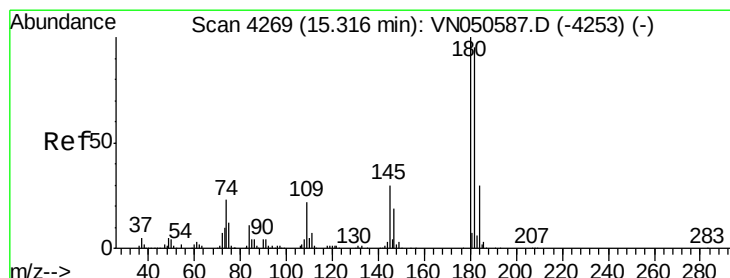
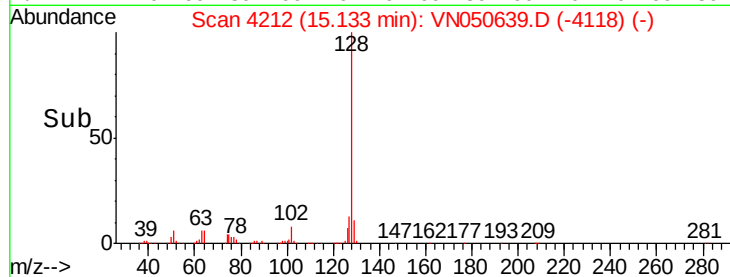
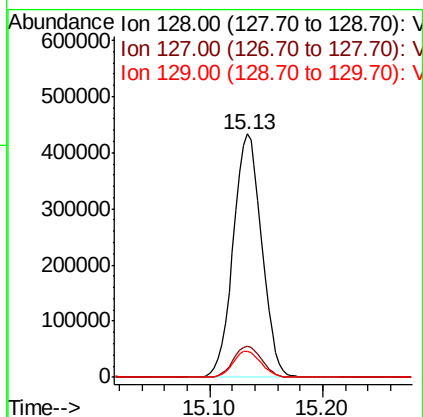
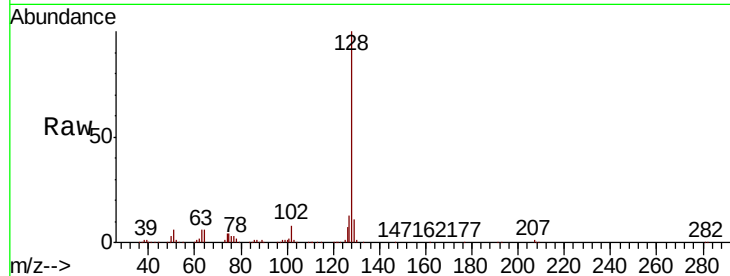
#95
Naphthalene
Concen: 43.38 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100				
127	12.9		10.3	15.5	
129	10.7		8.5	12.7	

Manual Integrations
APPROVED

MMDadoda
8/16/2018 1:18:21 PM



#96
1,2,3-Trichlorobenzene
Concen: 47.85 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050639.D
Acq: 15 Aug 2018 8:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100				
182	95.9		47.3	141.8	
145	30.2		14.6	44.0	

