

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN050981.D
 Acq On : 31 Aug 2018 12:22
 Operator : MD\SY
 Sample : VN0831WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/4/2018 12:27:54 PM

Quant Time: Aug 31 14:31:13 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	562274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	807795	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	728722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	341355	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	339448	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
35) Dibromofluoromethane	7.59	113	327156	50.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.82%	
50) Toluene-d8	10.09	98	1215925	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
62) 4-Bromofluorobenzene	12.40	95	383339	48.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	146690	19.49	ug/l	98
3) Chloromethane	2.06	50	167598	18.06	ug/l	97
4) Vinyl Chloride	2.18	62	163933	18.65	ug/l	100
5) Bromomethane	2.56	94	96028	18.55	ug/l	98
6) Chloroethane	2.70	64	95898	18.88	ug/l	99
7) Trichlorofluoromethane	3.01	101	223453	19.85	ug/l	100
8) Diethyl Ether	3.41	74	73961	19.32	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	139417	19.82	ug/l	99
10) Methyl Iodide	3.95	142	105848	21.31	ug/l	100
11) Tert butyl alcohol	4.79	59	42728	99.13	ug/l #	88
12) 1,1-Dichloroethene	3.74	96	123880	19.62	ug/l	94
13) Acrolein	3.61	56	11741	61.22	ug/l	93
14) Allyl chloride	4.33	41	185429	18.84	ug/l	99
15) Acrylonitrile	4.99	53	216313	98.75	ug/l	100
16) Acetone	3.82	43	158133	94.25	ug/l	100
17) Carbon Disulfide	4.05	76	354196	16.73	ug/l	99
18) Methyl Acetate	4.33	43	144377	22.59	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	320601	20.18	ug/l	98
20) Methylene Chloride	4.55	84	147153	19.29	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	129035	18.89	ug/l	98
22) Diisopropyl ether	5.96	45	405206	20.66	ug/l	98
23) Vinyl Acetate	5.90	43	1186342	93.93	ug/l	99
24) 1,1-Dichloroethane	5.85	63	250588	19.90	ug/l	99
25) 2-Butanone	6.84	43	230010	84.32	ug/l	97
26) 2,2-Dichloropropane	6.83	77	191079	18.89	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	147095	19.98	ug/l	99
28) Bromochloromethane	7.20	49	106116	19.84	ug/l	96
29) Tetrahydrofuran	7.22	42	153710	98.28	ug/l	98
30) Chloroform	7.37	83	253417	20.33	ug/l	98
31) Cyclohexane	7.66	56	209251	18.58	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	211143	19.72	ug/l	98
36) 1,1-Dichloropropene	7.80	75	181871	19.08	ug/l	99
37) Ethyl Acetate	6.93	43	105510	19.27	ug/l	97
38) Carbon Tetrachloride	7.78	117	189031	19.62	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	188745	18.30	ug/l	97
40) Benzene	8.04	78	574779	20.00	ug/l	99
41) Methacrylonitrile	7.18	41	50724	17.12	ug/l	90
42) 1,2-Dichloroethane	8.13	62	171103	19.91	ug/l	99
43) Isopropyl Acetate	8.17	43	191663	20.36	ug/l	97
44) Trichloroethene	8.84	130	148377	19.57	ug/l	100
45) 1,2-Dichloropropane	9.12	63	149963	19.85	ug/l	100
46) Dibromomethane	9.21	93	87186	19.64	ug/l	97
47) Bromodichloromethane	9.40	83	188863	20.31	ug/l	97
48) Methyl methacrylate	9.20	41	94435	19.68	ug/l	99
49) 1,4-Dioxane	9.20	88	25165	384.73	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	527898	93.96	ug/l	99
52) Toluene	10.16	92	346851	20.37	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	176186	19.04	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	212847	20.09	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	126301	19.98	ug/l	98
56) Ethyl methacrylate	10.43	69	141649	18.77	ug/l	99
57) 1,3-Dichloropropane	10.71	76	209525	20.09	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	290855	89.33	ug/l	100
59) 2-Hexanone	10.75	43	329400	88.07	ug/l	99
60) Dibromochloromethane	10.90	129	144619	20.44	ug/l	99
61) 1,2-Dibromoethane	11.01	107	120122	19.66	ug/l	98
64) Tetrachloroethene	10.63	164	137688	19.89	ug/l	98
65) Chlorobenzene	11.44	112	377405	19.81	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	142741	20.48	ug/l	98
67) Ethyl Benzene	11.51	91	612238	19.77	ug/l	100
68) m/p-Xylenes	11.62	106	484715	41.24	ug/l	100
69) o-Xylene	11.95	106	231713	20.51	ug/l	99
70) Styrene	11.96	104	361344	18.95	ug/l	99
71) Bromoform	12.13	173	96879	20.21	ug/l #	99
73) Isopropylbenzene	12.25	105	612456	21.67	ug/l	100
74) N-amyl acetate	12.07	43	135670	19.10	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	155394	22.15	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	125601m	21.01	ug/l	
77) Bromobenzene	12.53	156	161231	20.99	ug/l	97
78) n-propylbenzene	12.59	91	672582	21.30	ug/l	99
79) 2-Chlorotoluene	12.67	91	418822	21.29	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	497854	21.83	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	33498	18.94	ug/l	95
82) 4-Chlorotoluene	12.77	91	404698	20.84	ug/l	99
83) tert-Butylbenzene	12.99	119	427680	21.65	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	508913	22.18	ug/l	100
85) sec-Butylbenzene	13.17	105	562705	21.74	ug/l	100
86) p-Isopropyltoluene	13.29	119	476757	21.62	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	265111	20.34	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	254598	19.84	ug/l	100
89) n-Butylbenzene	13.62	91	345351	19.58	ug/l	99
90) Hexachloroethane	13.87	117	91736	21.93	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	259095	20.60	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20075	19.78	ug/l	100

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VN0831WBSD01

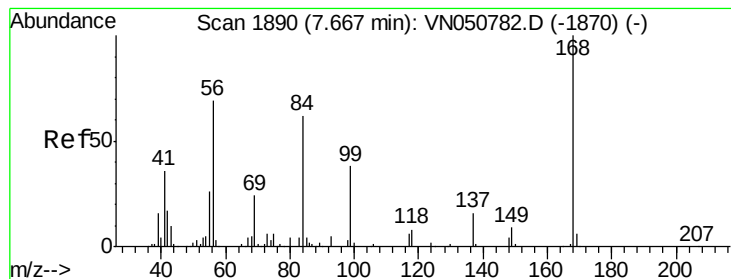
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	95342	17.47	ug/l	98
94) Hexachlorobutadiene	15.01	225	82730	21.55	ug/l	99
95) Naphthalene	15.13	128	170431	16.55	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	99890	18.51	ug/l	100

(#) = 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: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion:168 Resp: 562274

Ion Ratio Lower Upper

168 100

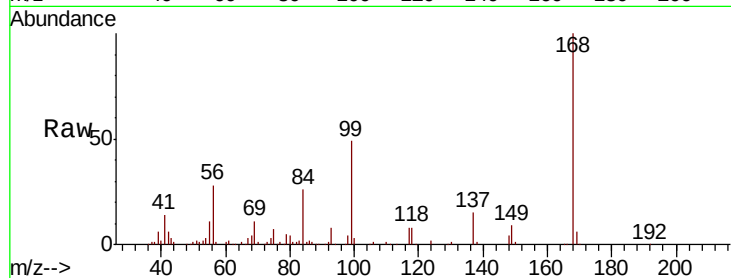
99 49.0 39.6 59.4

Manual Integrations

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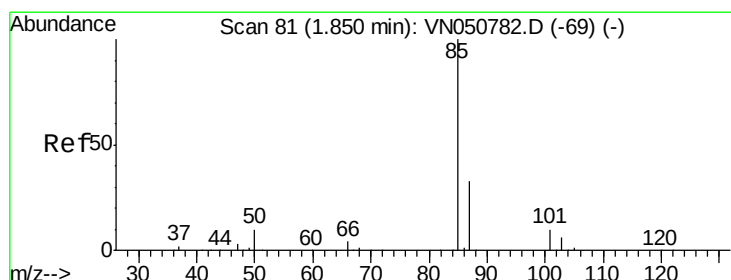
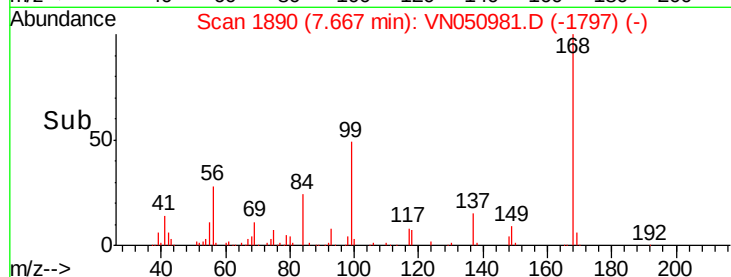
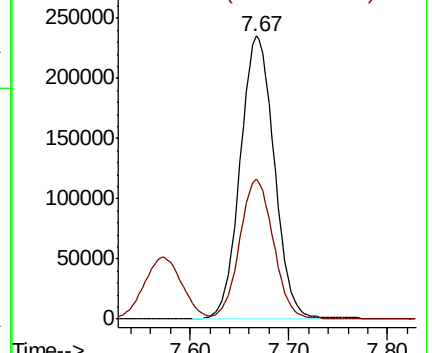
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 19.49 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050981.D

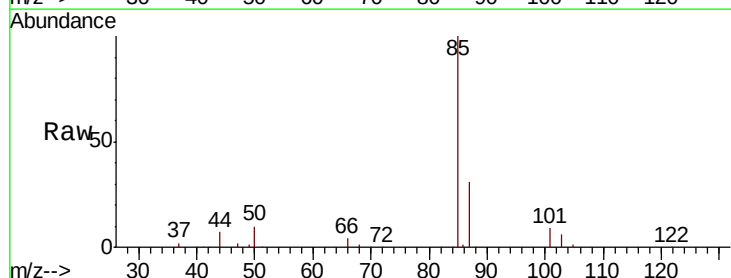
Acq: 31 Aug 2018 12:22

Tgt Ion: 85 Resp: 146690

Ion Ratio Lower Upper

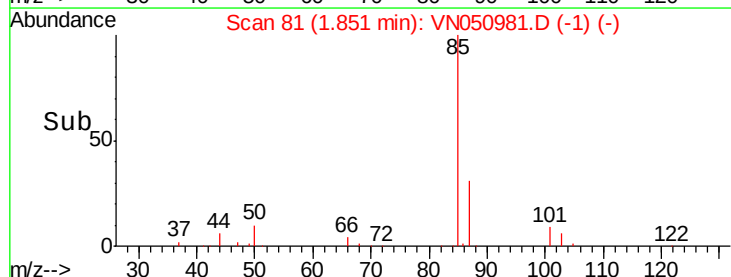
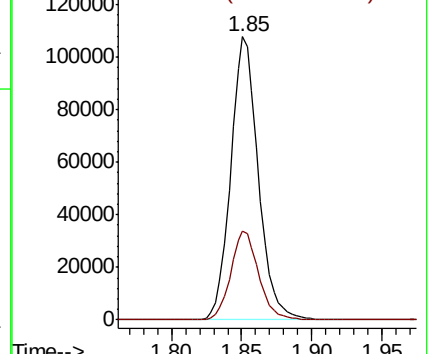
85 100

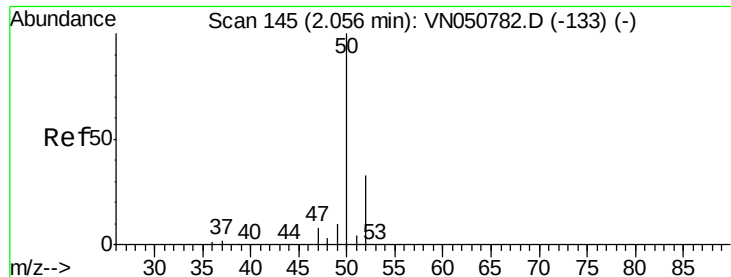
87 31.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 18.06 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampled :

VN0831WBSD01

Tot Ion: 50 Resp: 167598

Ion Ratio Lower Upper

50 100

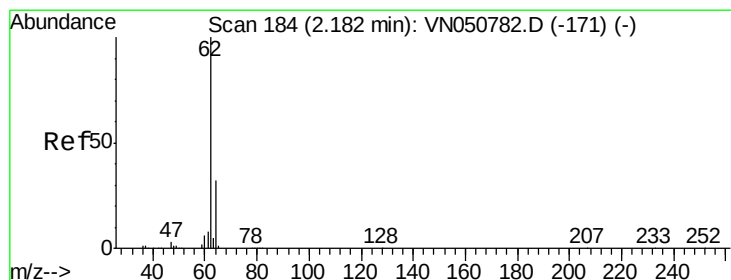
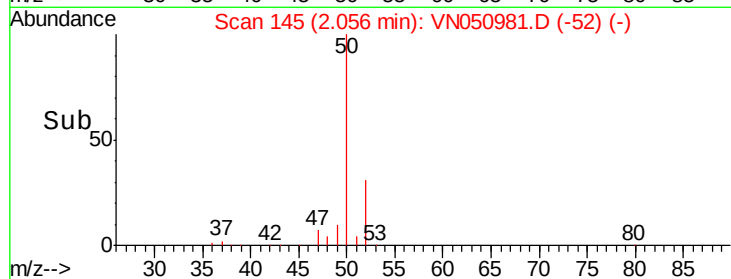
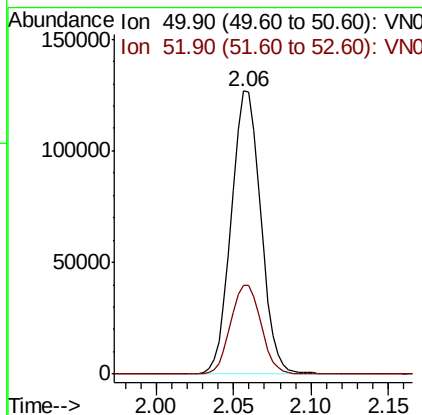
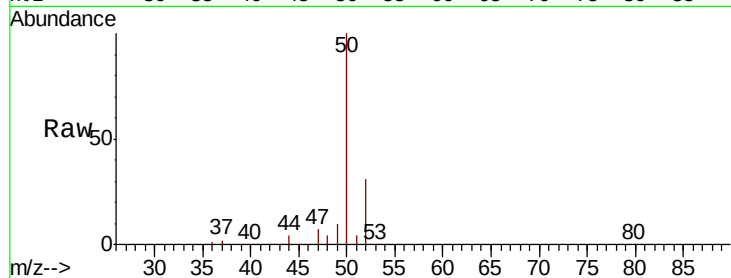
52 31.5 26.3 39.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.65 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN050981.D

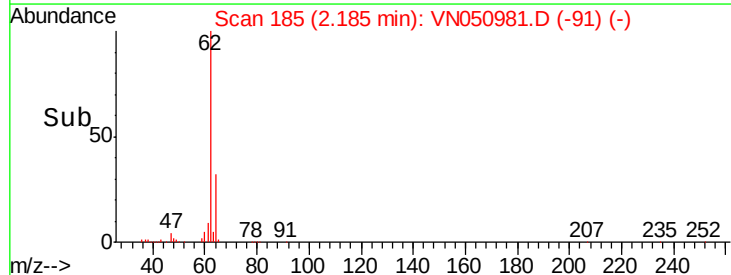
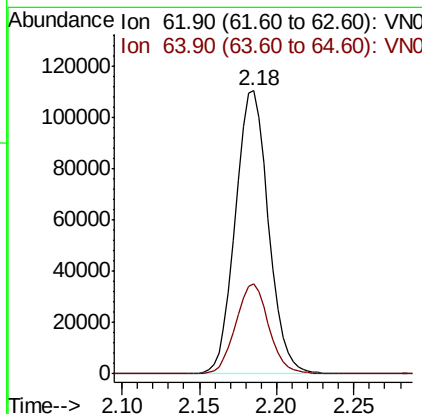
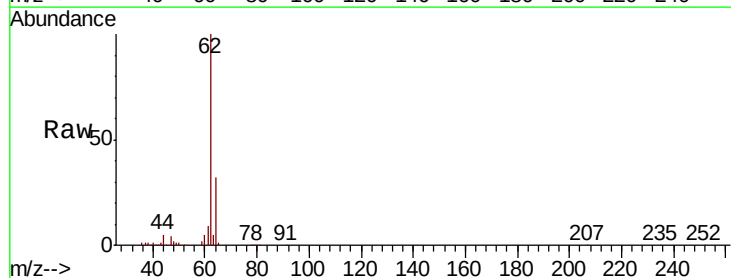
Acq: 31 Aug 2018 12:22

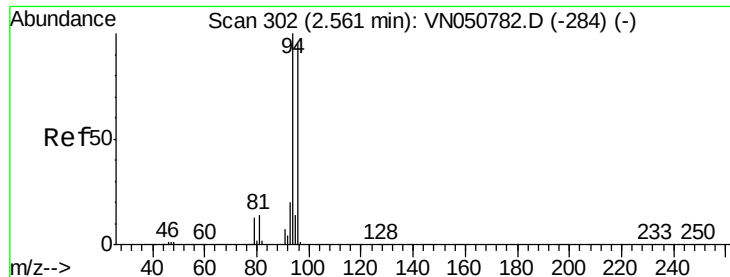
Tgt Ion: 62 Resp: 163933

Ion Ratio Lower Upper

62 100

64 31.8 25.4 38.2





#5

Bromomethane

Concen: 18.55 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion: 94 Resp: 96028

Ion Ratio Lower Upper

94 100

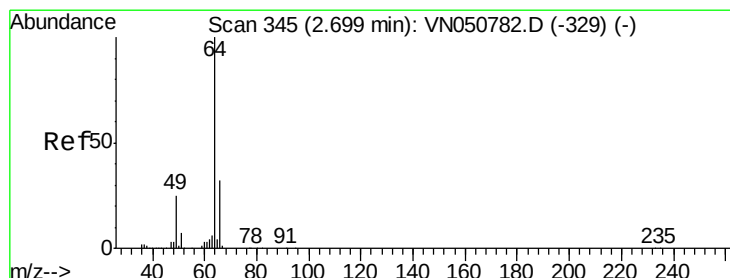
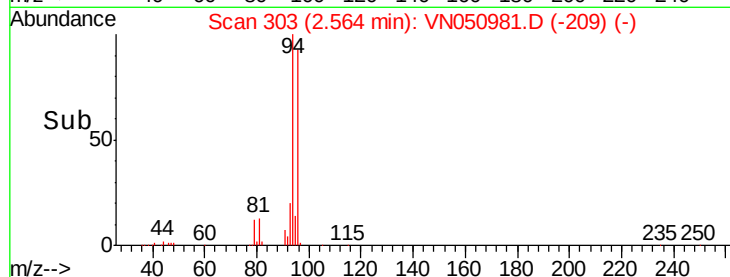
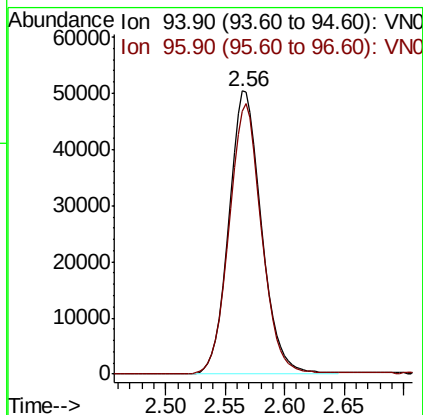
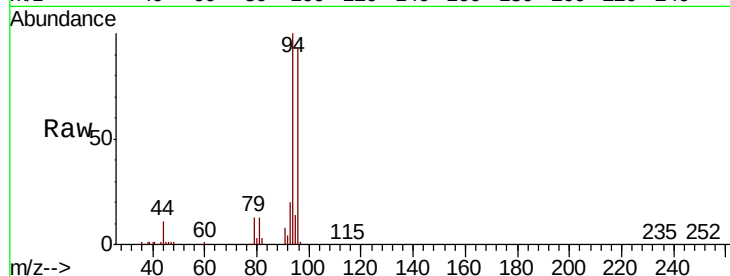
96 93.1 76.2 114.2

Manual Integrations

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#6

Chloroethane

Concen: 18.88 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050981.D

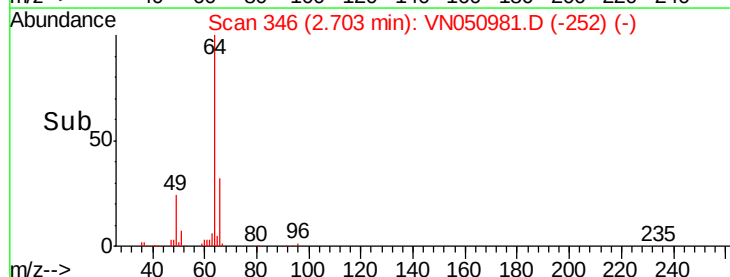
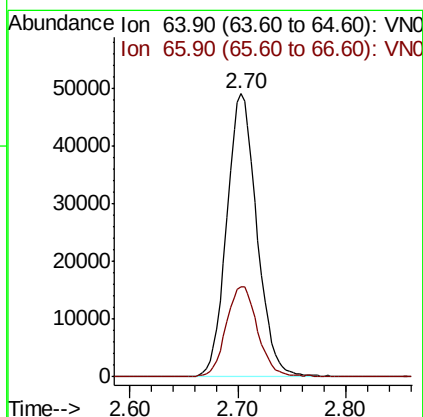
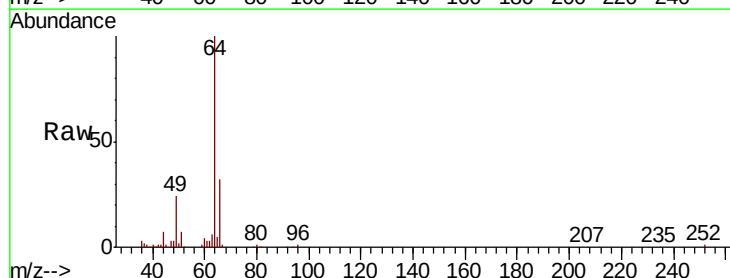
Acq: 31 Aug 2018 12:22

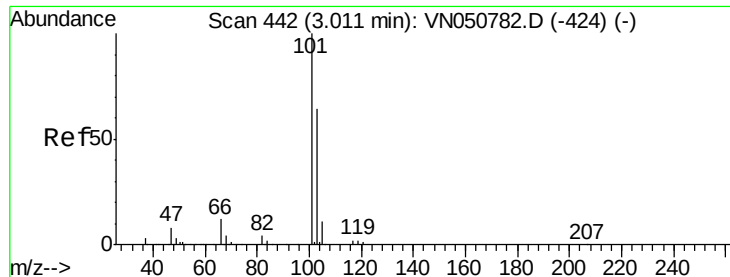
Tgt Ion: 64 Resp: 95898

Ion Ratio Lower Upper

64 100

66 32.0 25.3 37.9





#7

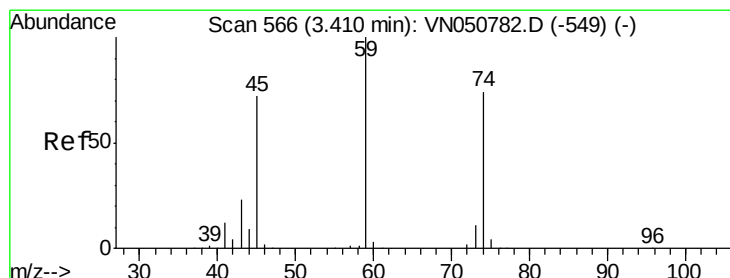
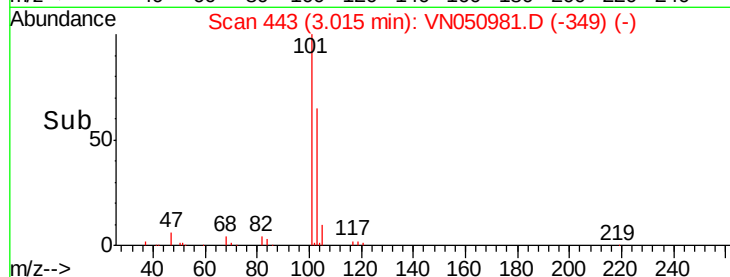
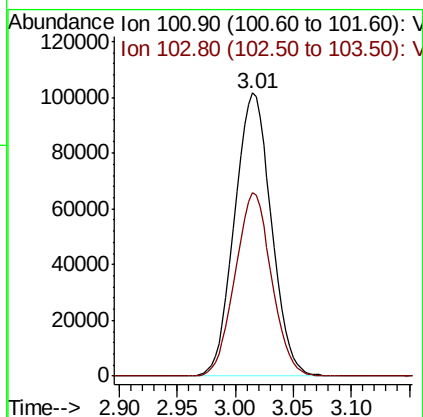
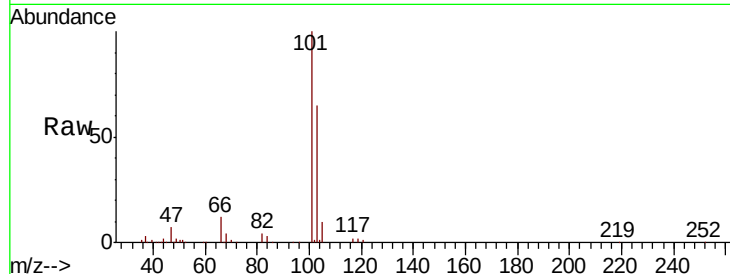
Trichlorofluoromethane
 Concen: 19.85 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
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 ClientSampleId :
 VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.6	77.4

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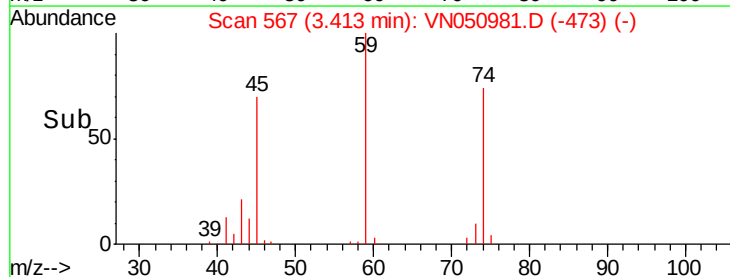
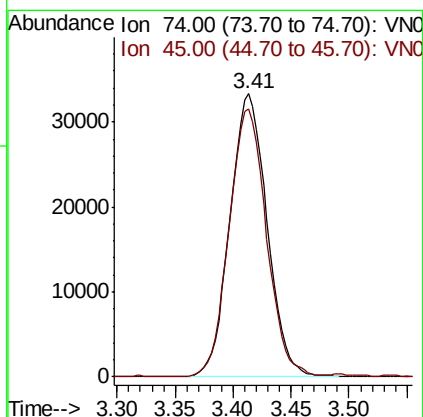
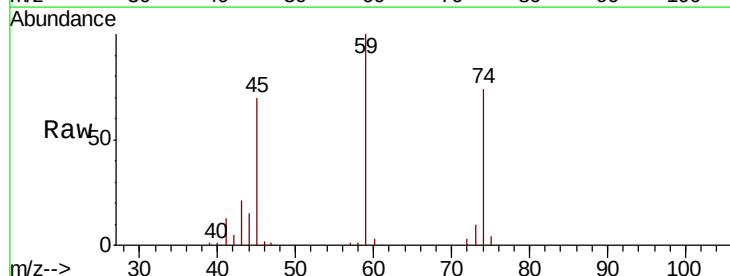
MMDadoda
 9/4/2018 12:27:54 PM

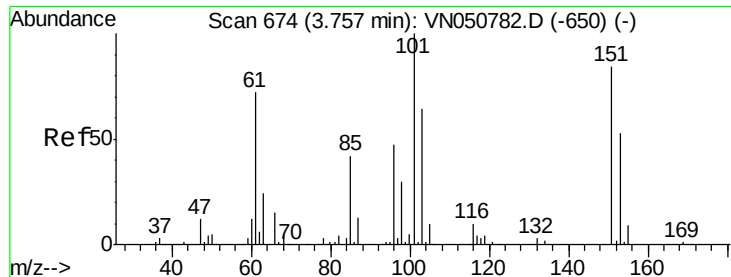


#8

Diethyl Ether
 Concen: 19.32 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.5	48.2	144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.82 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

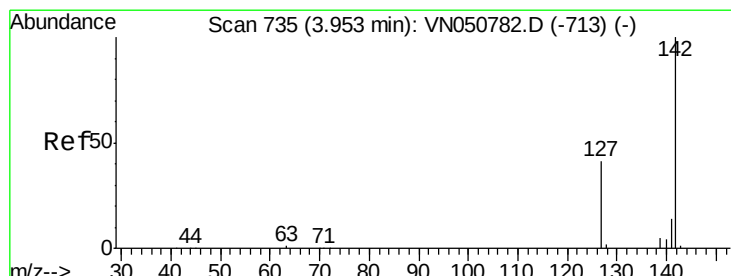
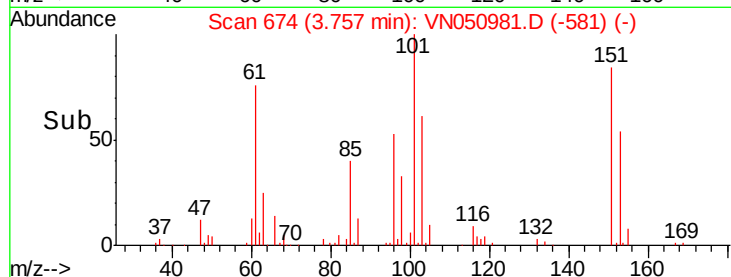
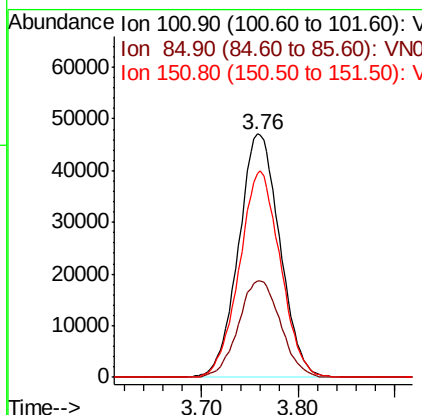
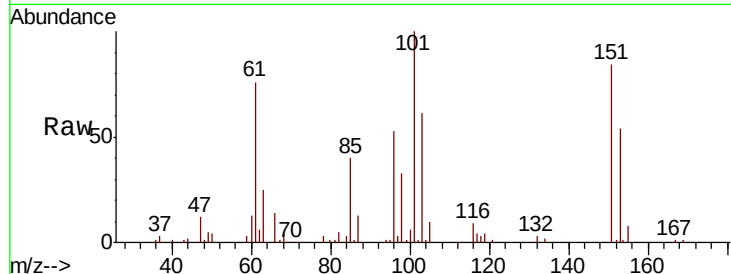
ClientSampleId :

VN0831WBSD01

Tot Ion:	101	Resp:	139417
Ion Ratio	Lower	Upper	
101	100		
85	40.4	33.7	50.5
151	84.3	67.4	101.2

Manual Integrations
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#10

Methyl Iodide

Concen: 21.31 ug/l

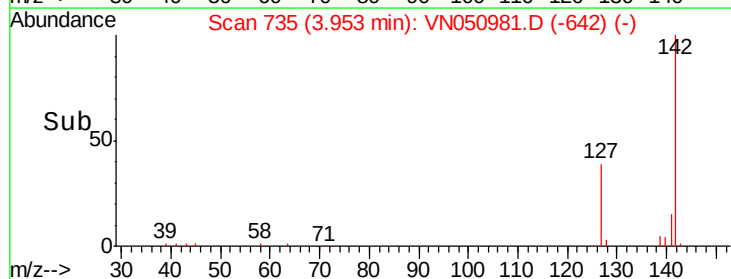
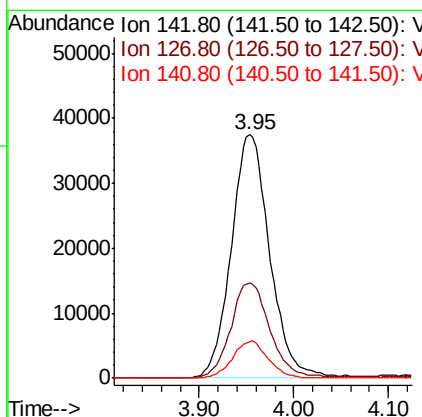
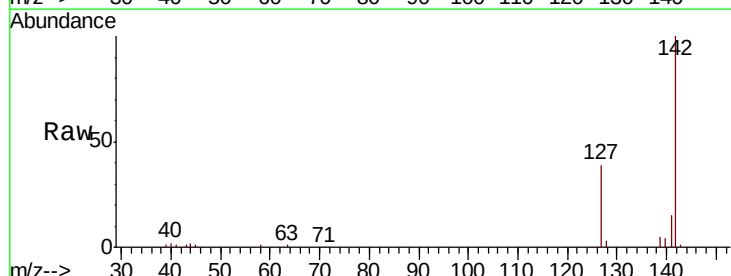
RT: 3.95 min Scan# 735

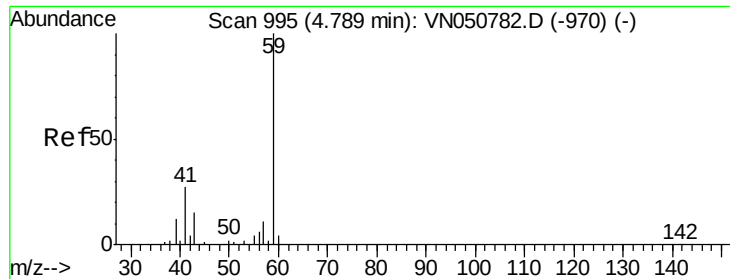
Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion:	142	Resp:	105848
Ion Ratio	Lower	Upper	
142	100		
127	39.3	31.7	47.5
141	14.0	11.4	17.0





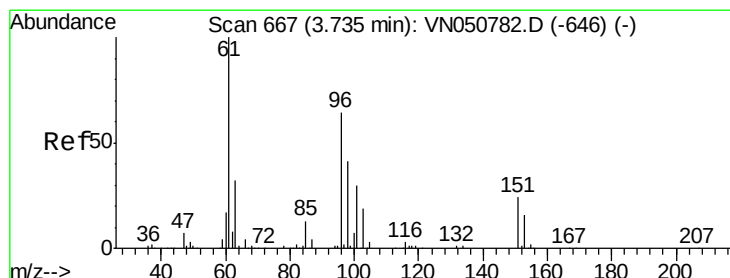
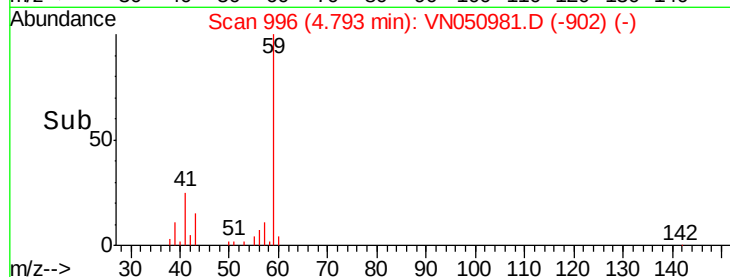
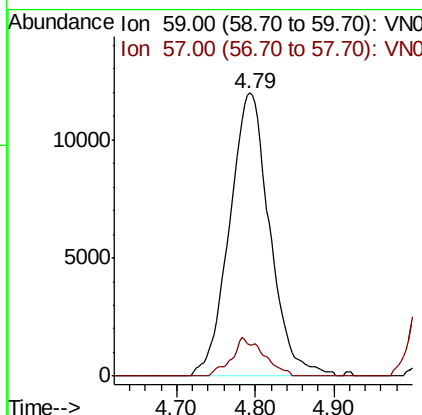
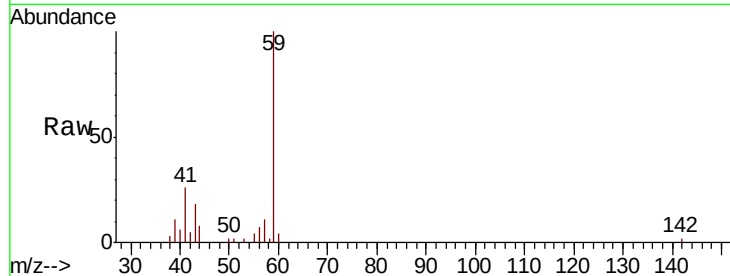
#11
Tert butyl alcohol
Concen: 99.13 ug/l
RT: 4.79 min Scan# 996
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.0	8.3	12.5#

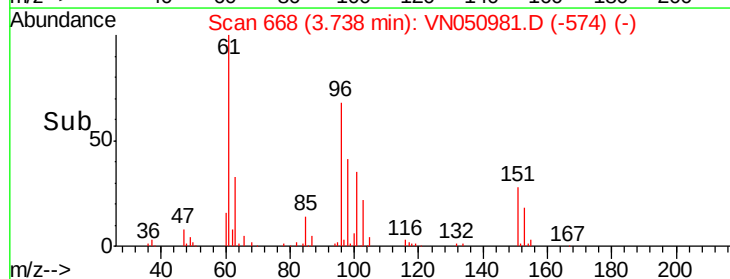
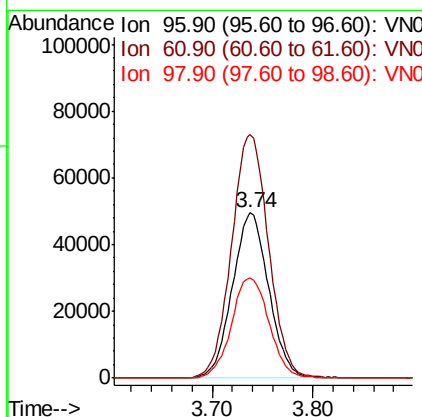
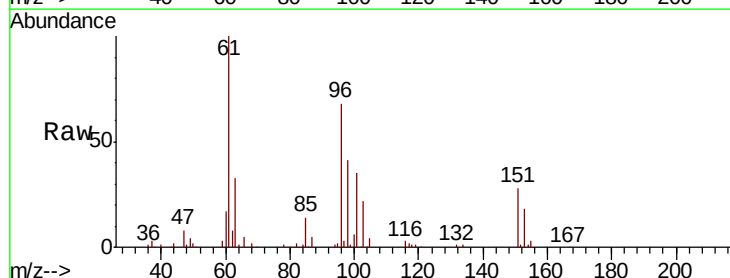
Manual Integrations
APPROVED

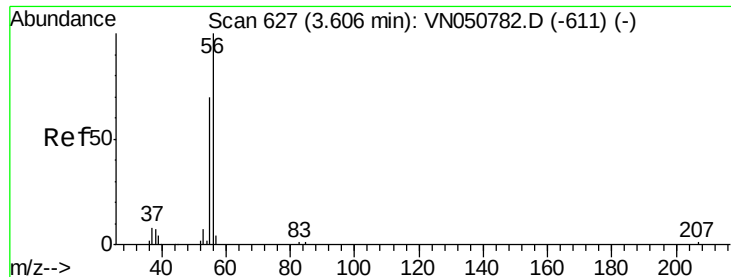
MMDadoda
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#12
1,1-Dichloroethene
Concen: 19.62 ug/l
RT: 3.74 min Scan# 668
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.4	124.9	187.3
98	60.5	51.1	76.7





#13

Acrolein

Concen: 61.22 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion: 56 Resp: 11741

Ion Ratio Lower Upper

56 100

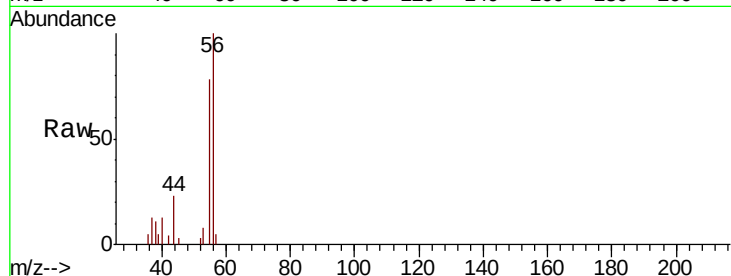
55 78.1 57.7 86.5

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VN050981.D (-534) (-)

Ion 55.00 (54.70 to 55.70): VN050981.D (-534) (-)

3.61

5000

4000

3000

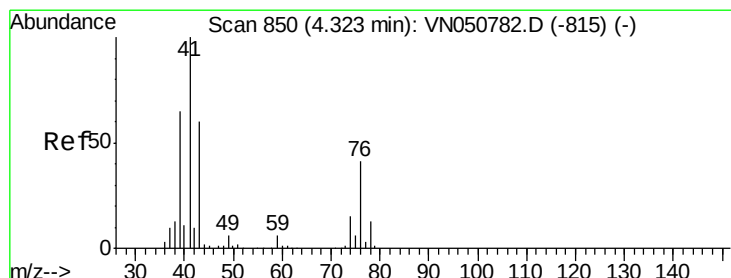
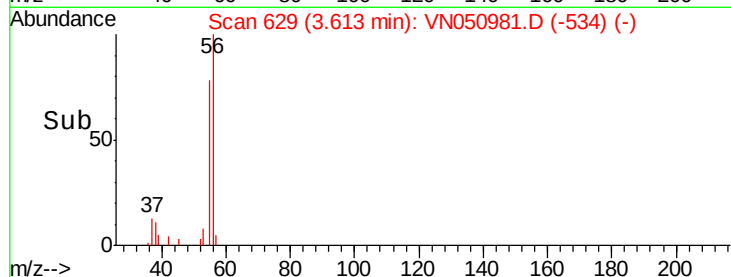
2000

1000

0

Time-->

3.55 3.60 3.65 3.70



#14

Allyl chloride

Concen: 18.84 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

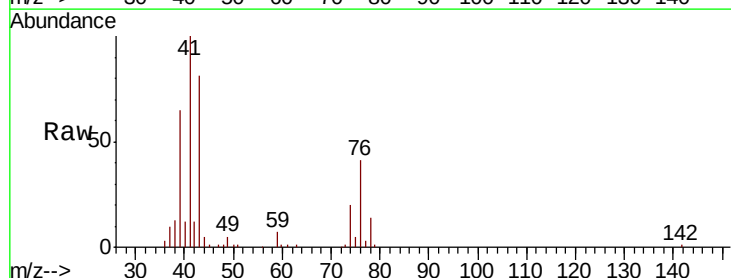
Tgt Ion: 41 Resp: 185429

Ion Ratio Lower Upper

41 100

39 62.5 50.2 75.2

76 38.9 29.8 44.8



Abundance Ion 41.00 (40.70 to 41.70): VN050981.D (-757) (-)

Ion 39.00 (38.70 to 39.70): VN050981.D (-757) (-)

Ion 75.90 (75.60 to 76.60): VN050981.D (-757) (-)

80000

60000

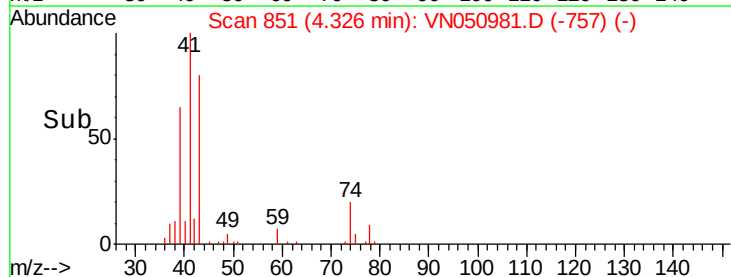
40000

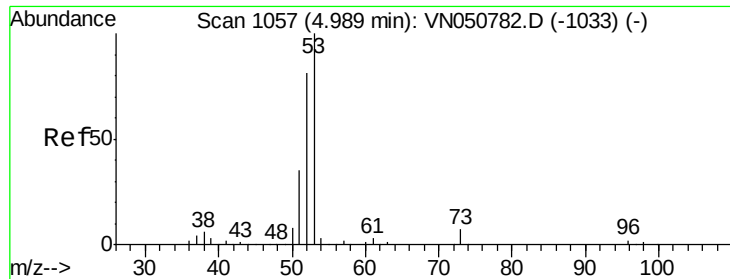
20000

0

Time-->

4.20 4.30 4.40





#15

Acrylonitrile

Concen: 98.75 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

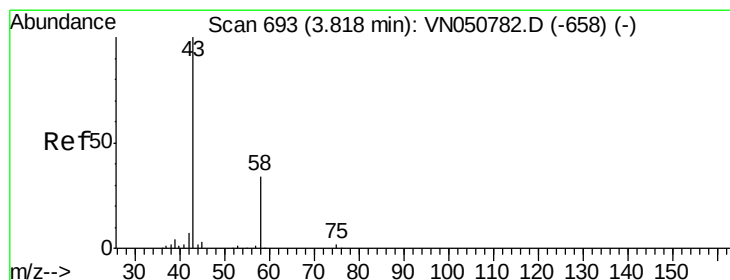
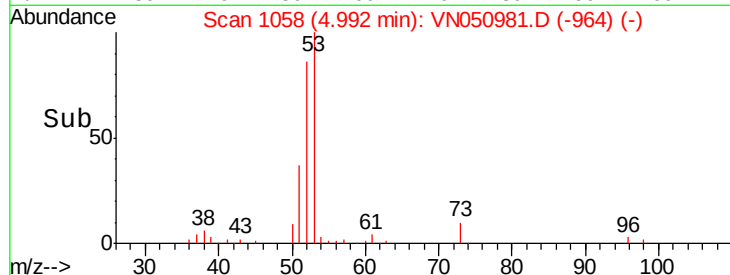
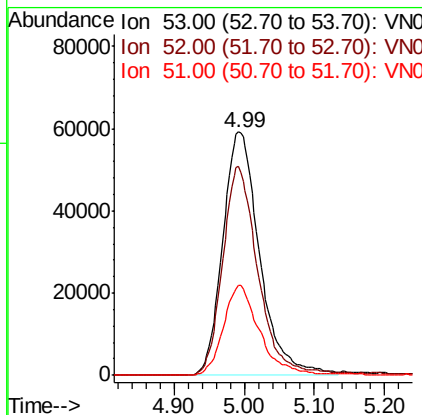
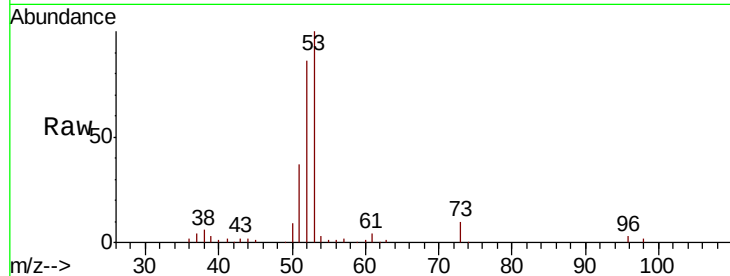
ClientSampleId :

VN0831WBSD01

Tot Ion:	53	Resp:	216313
Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.9	98.9
51	36.0	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 94.25 ug/l

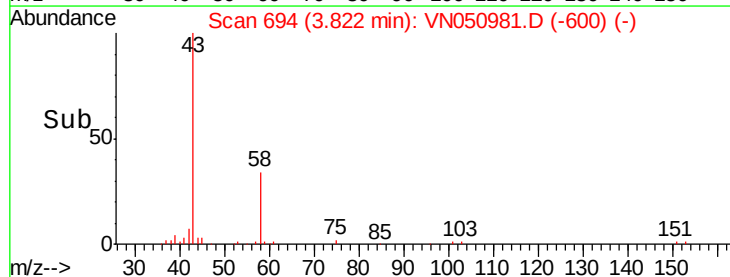
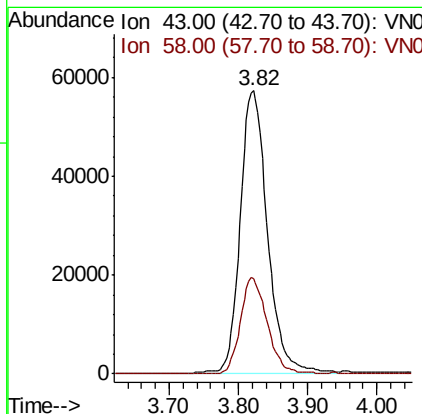
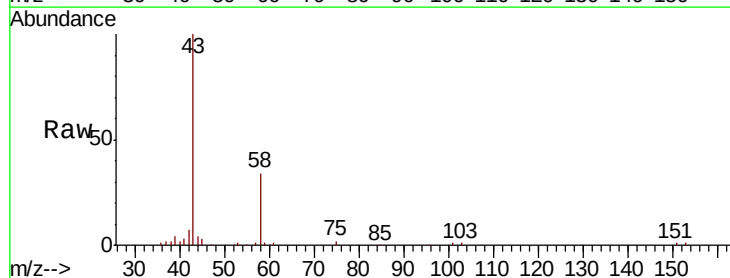
RT: 3.82 min Scan# 694

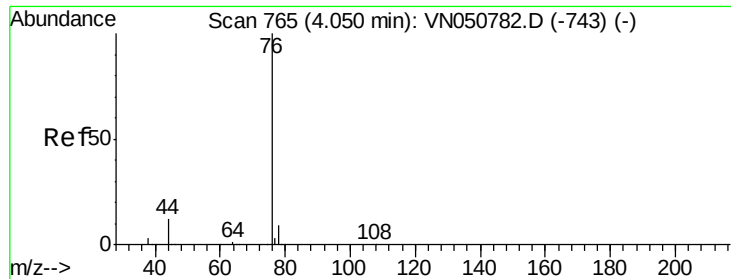
Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion:	43	Resp:	158133
Ion	Ratio	Lower	Upper
43	100		
58	33.9	27.2	40.8





#17

Carbon Disulfide

Concen: 16.73 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion: 76 Resp: 354196

Ion Ratio Lower Upper

76 100

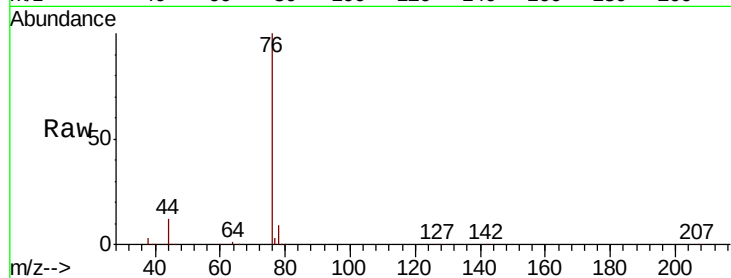
78 9.5 7.3 10.9

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN050782.D (-743) (-)

Ion 77.90 (77.60 to 78.60): VN050782.D (-743) (-)

4.05

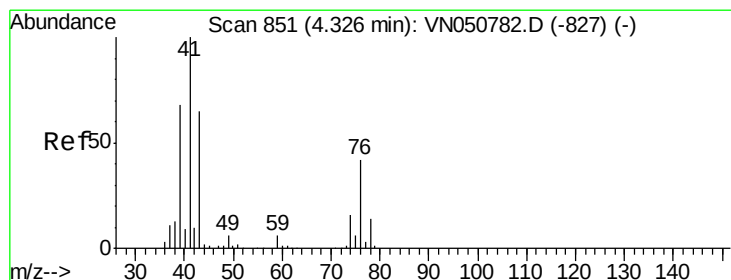
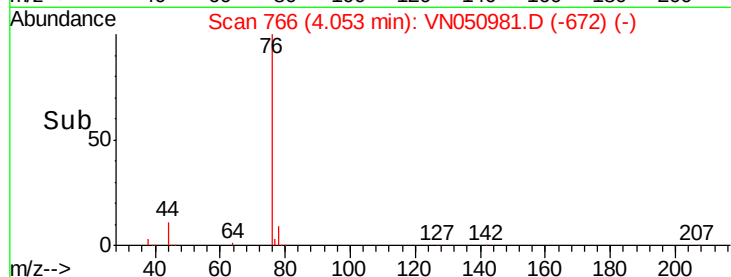
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 22.59 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050981.D

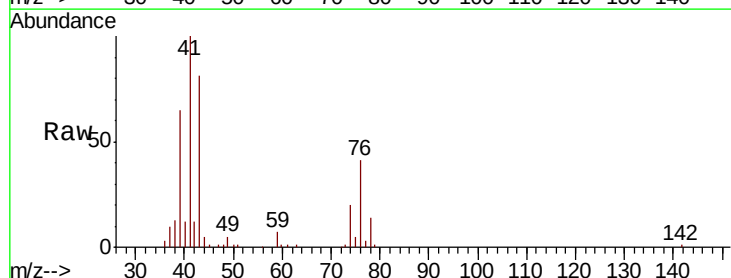
Acq: 31 Aug 2018 12:22

Tgt Ion: 43 Resp: 144377

Ion Ratio Lower Upper

43 100

74 24.2 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-827) (-)

Ion 74.00 (73.70 to 74.70): VN050782.D (-827) (-)

4.33

50000

40000

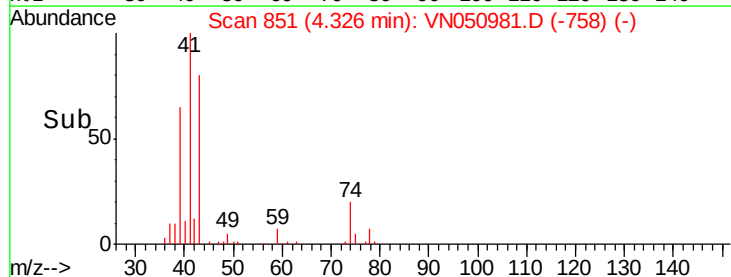
30000

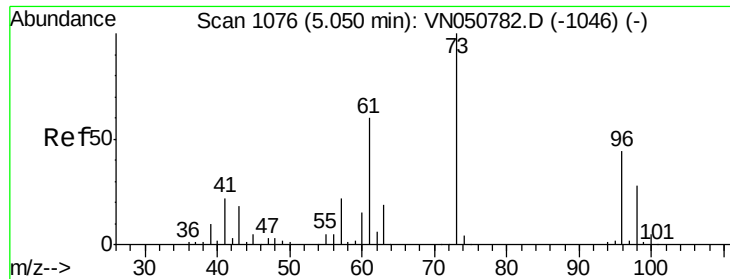
20000

10000

0

Time-->





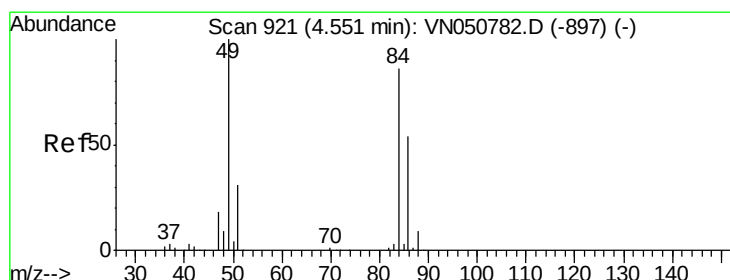
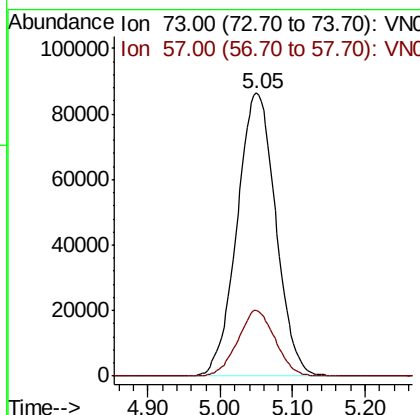
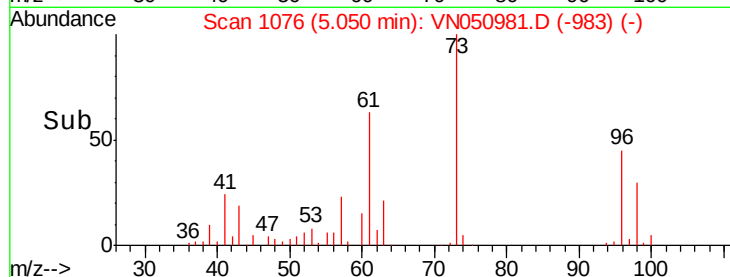
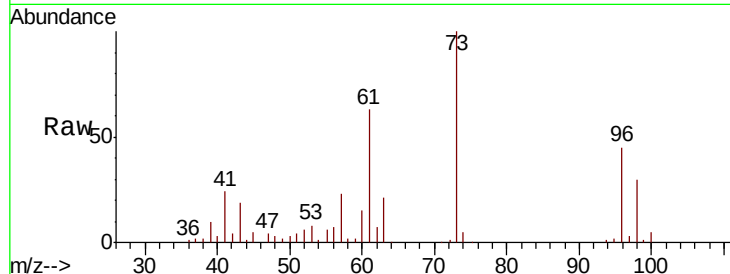
#19
Methvl tert-butvl Ether
Concen: 20.18 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.3	17.8	26.8

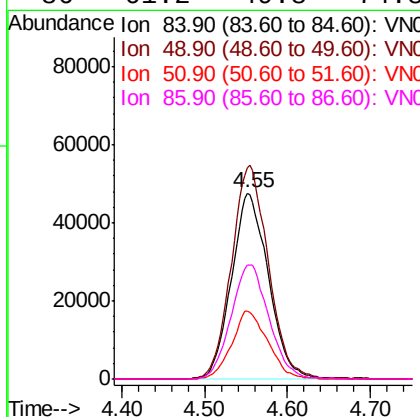
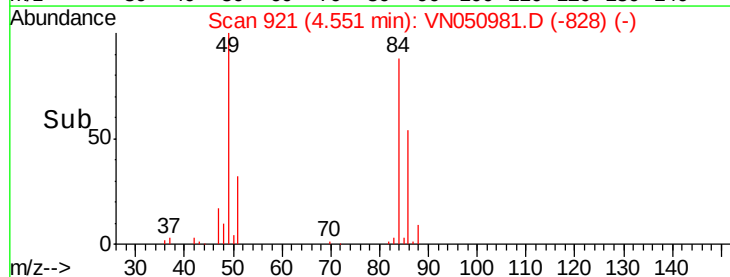
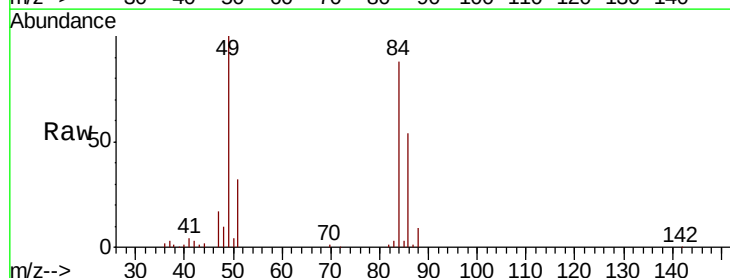
Manual Integrations
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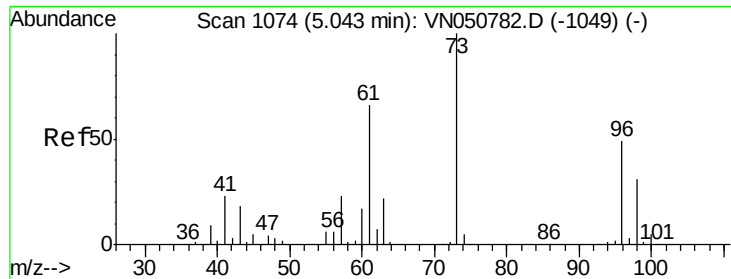
MMDadoda
9/4/2018 12:27:54 PM



#20
Methylene Chloride
Concen: 19.29 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
84	100		
49	113.5	93.2	139.8
51	36.8	29.0	43.6
86	61.2	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 18.89 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampled :

VN0831WBSD01

Tot Ion: 96 Resp: 129035

Ion Ratio Lower Upper

96 100

61 137.7 107.4 161.0

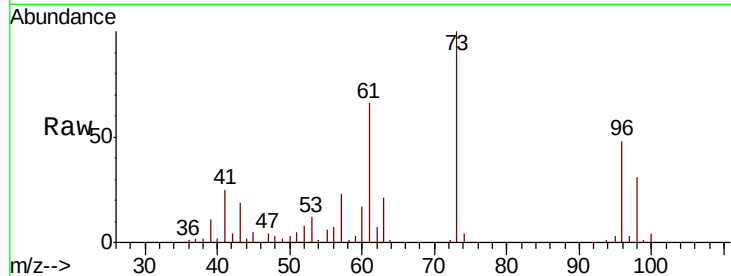
98 64.5 50.7 76.1

Manual Integrations

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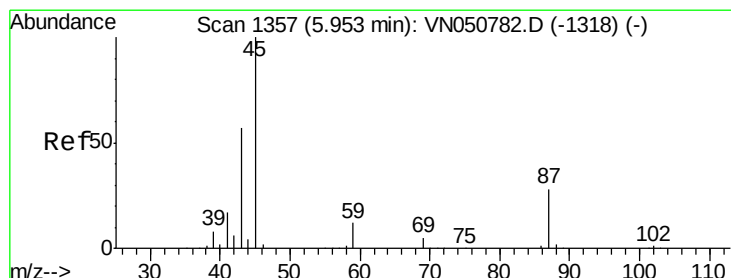
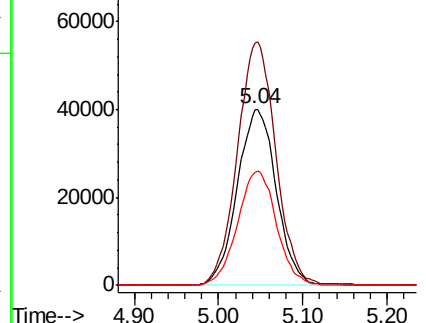
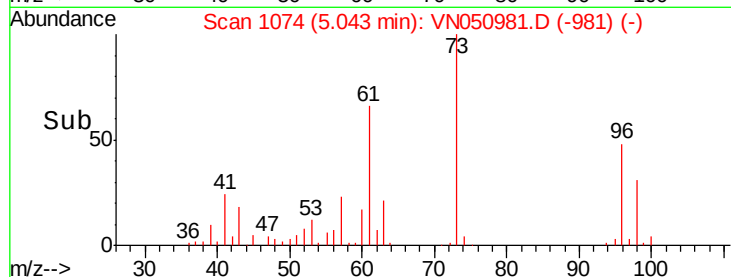
9/4/2018 12:27:54 PM



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: 20.66 ug/l

RT: 5.96 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion: 45 Resp: 405206

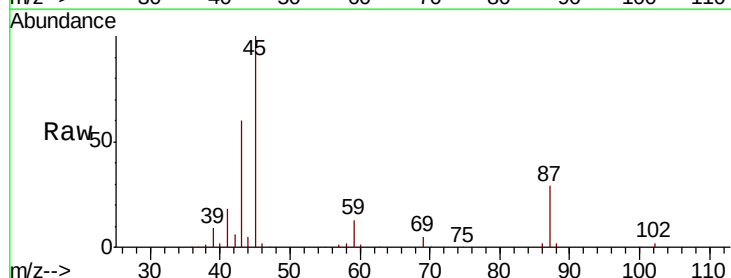
Ion Ratio Lower Upper

45 100

43 58.8 45.9 68.9

87 29.2 22.7 34.1

59 12.6 9.3 13.9

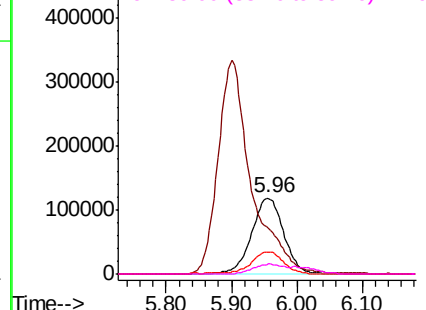
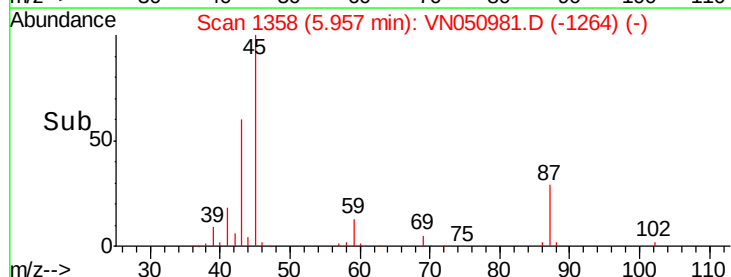


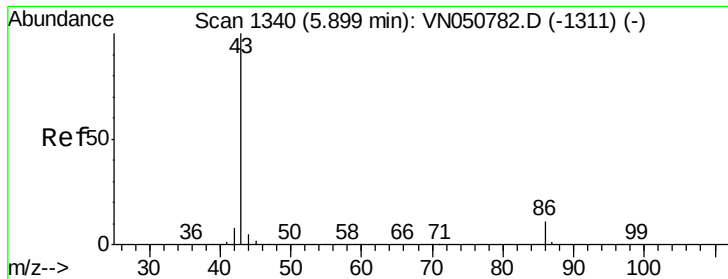
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 93.93 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampled :

VN0831WBSD01

Tot Ion: 43 Resp: 1186342

Ion Ratio Lower Upper

43 100

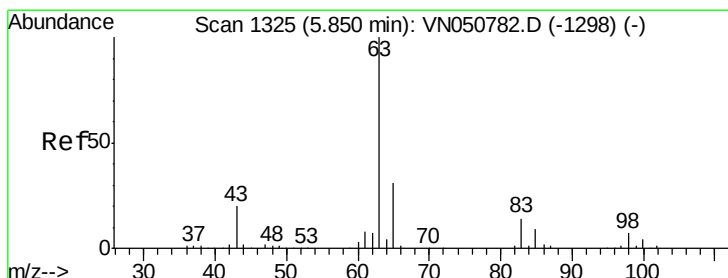
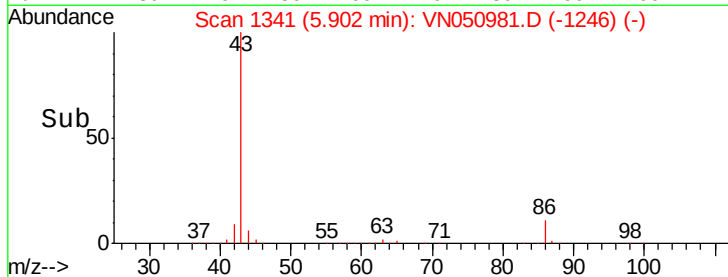
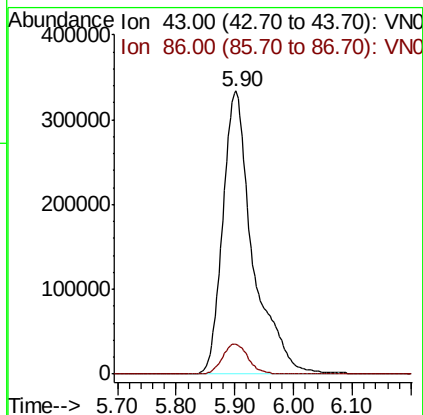
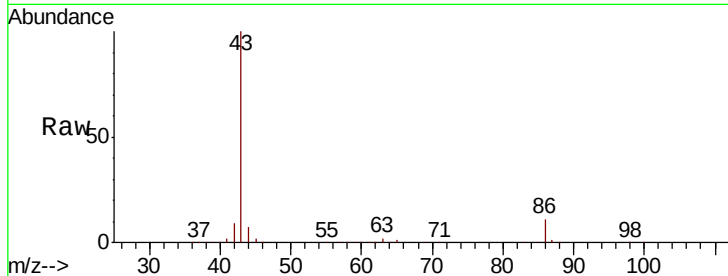
86 10.6 8.7 13.1

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#24

1,1-Dichloroethane

Concen: 19.90 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

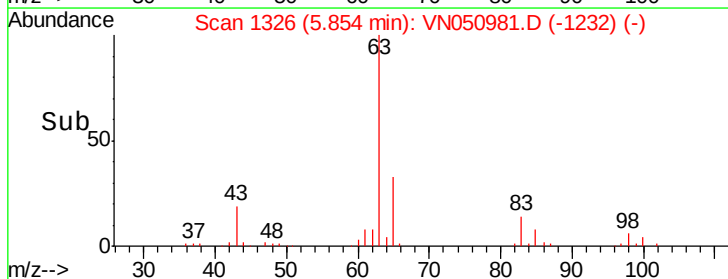
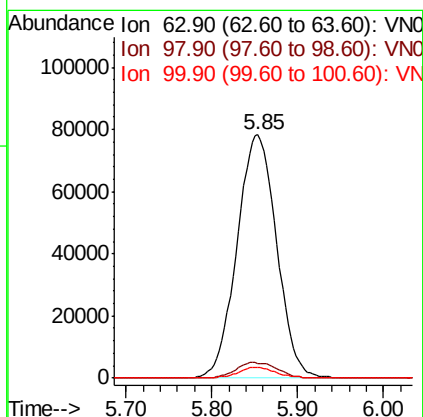
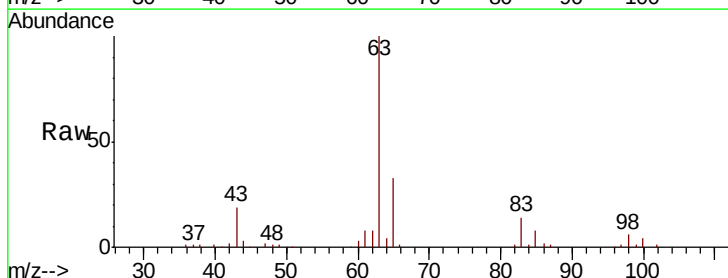
Tgt Ion: 63 Resp: 250588

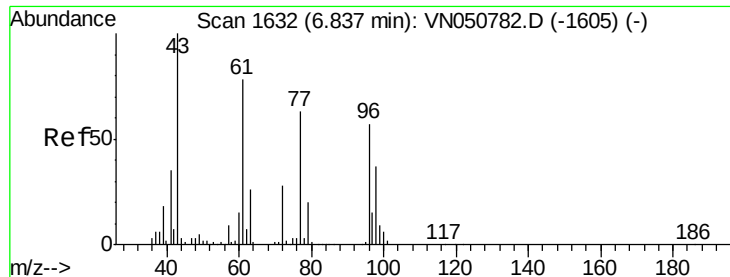
Ion Ratio Lower Upper

63 100

98 5.9 3.3 9.8

100 4.3 2.1 6.5





#25

2-Butanone

Concen: 84.32 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.01 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion: 43 Resp: 230010

Ion Ratio Lower Upper

43 100

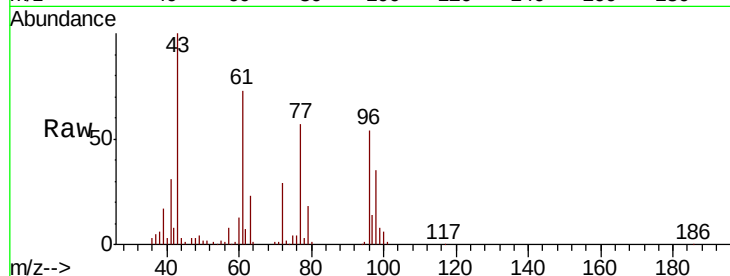
72 29.5 22.3 33.5

Manual Integrations

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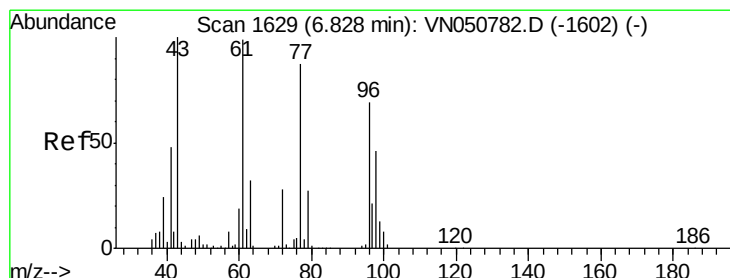
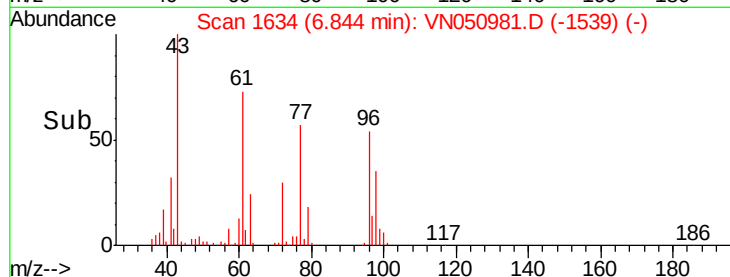
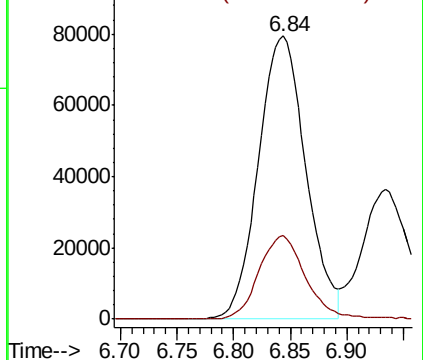
MMDadoda

9/4/2018 12:27:54 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 18.89 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050981.D

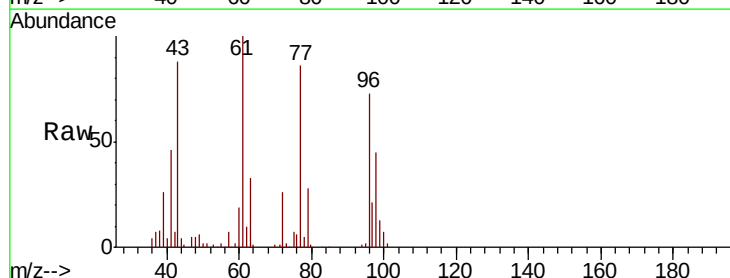
Acq: 31 Aug 2018 12:22

Tgt Ion: 77 Resp: 191079

Ion Ratio Lower Upper

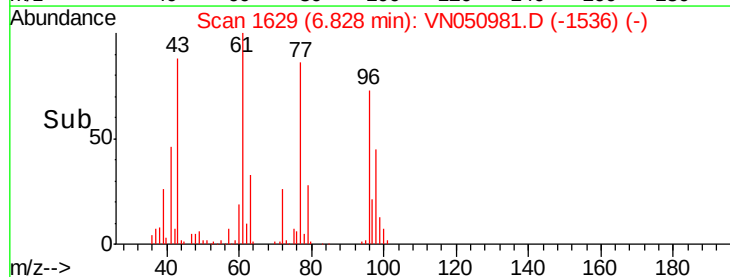
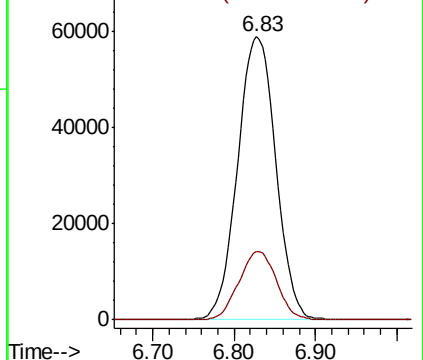
77 100

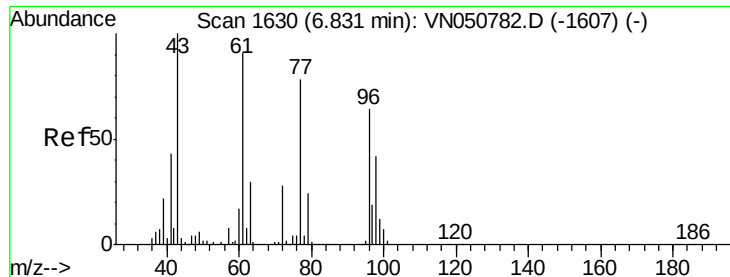
97 23.8 12.0 36.0



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 19.98 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

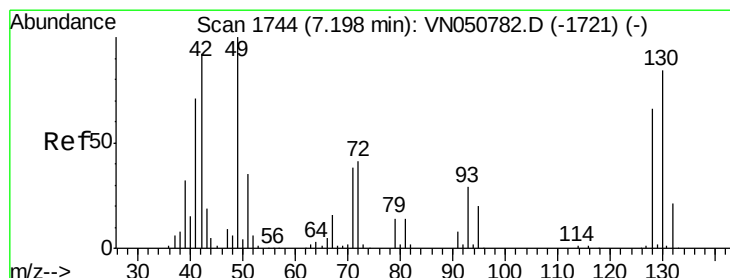
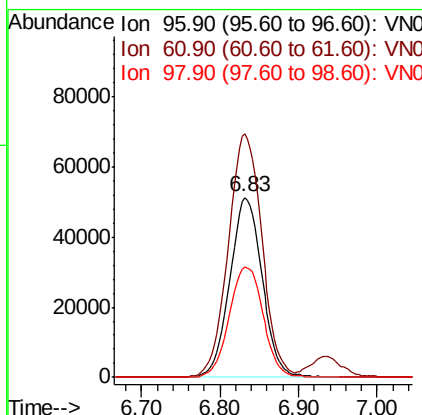
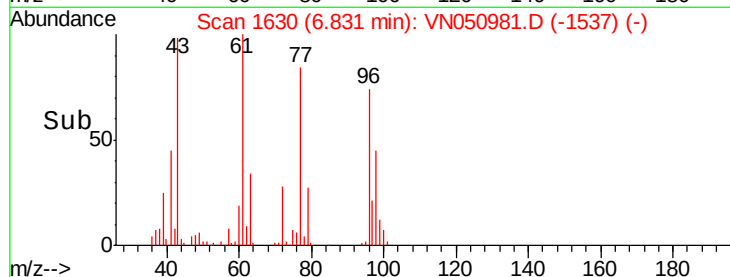
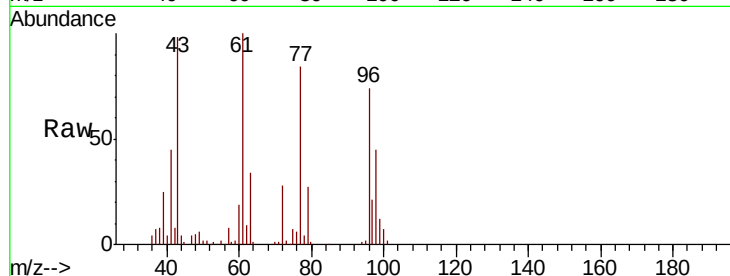
ClientSampleId :

VN0831WBSD01

Tot Ion:	96	Resp:	147095
Ion	Ratio	Lower	Upper
96	100		
61	140.5	0.0	283.4
98	64.5	0.0	129.8

Manual Integrations
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#28

Bromochloromethane

Concen: 19.84 ug/l

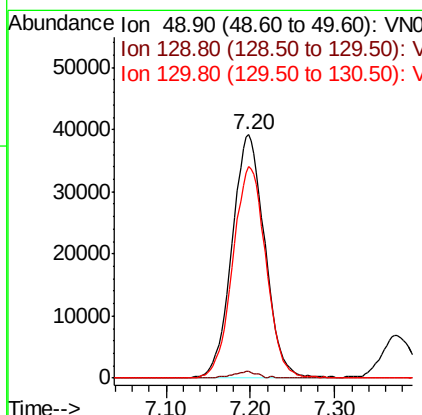
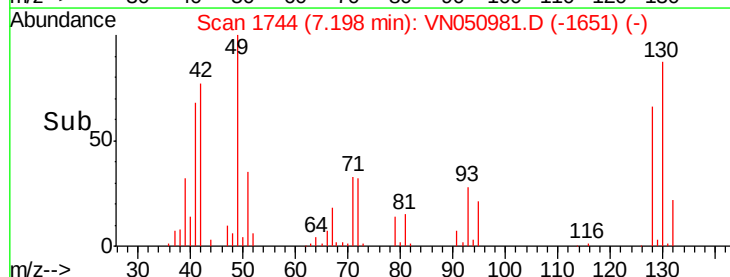
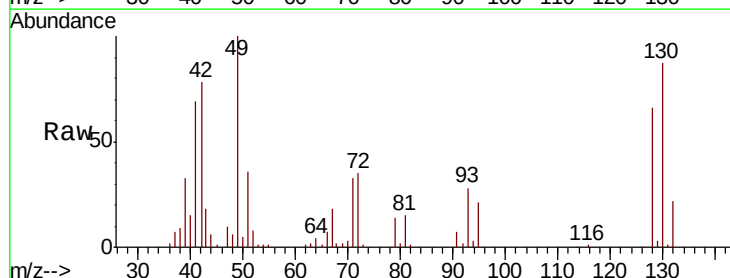
RT: 7.20 min Scan# 1744

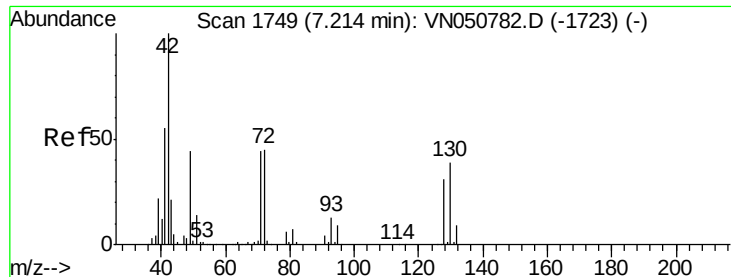
Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion:	49	Resp:	106116
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	87.5	67.1	100.7





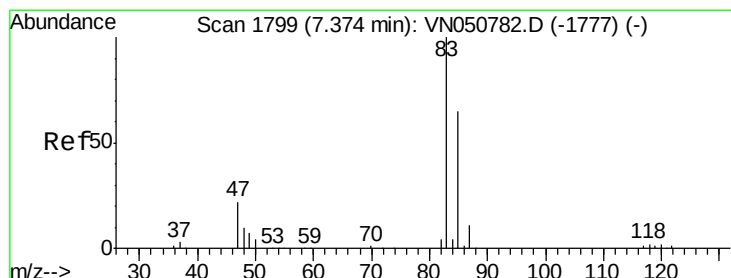
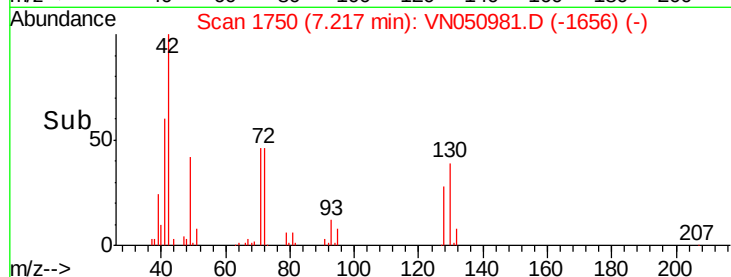
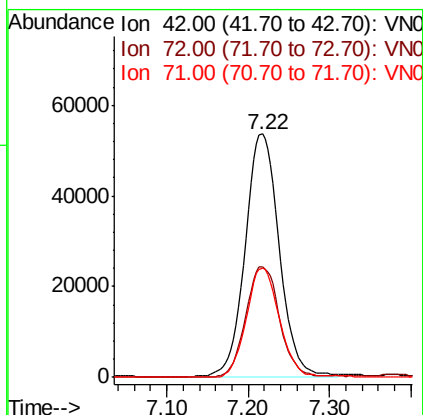
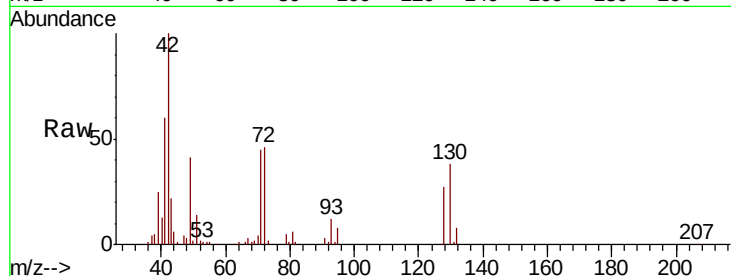
#29
Tetrahydrofuran
Concen: 98.28 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.3	35.5	53.3
71	43.9	33.7	50.5

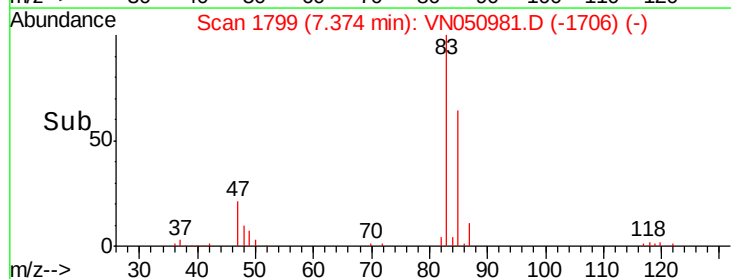
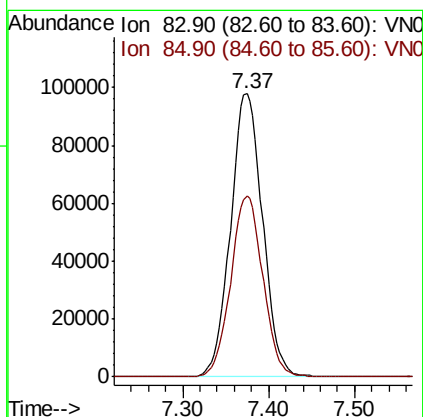
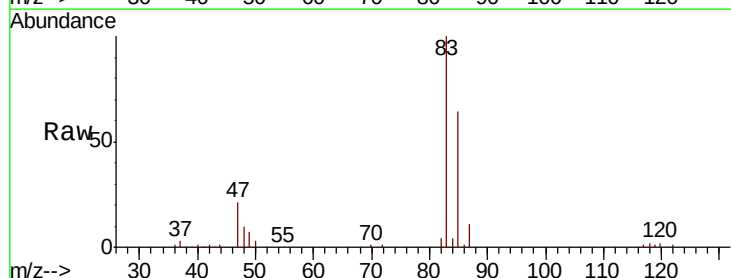
Manual Integrations
APPROVED

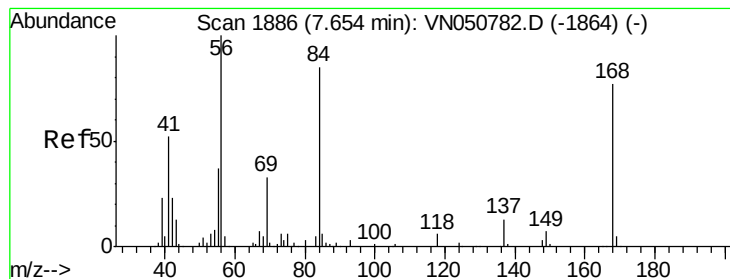
MMDadoda
9/4/2018 12:27:54 PM



#30
Chloroform
Concen: 20.33 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.2	78.4





#31

Cyclohexane

Concen: 18.58 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

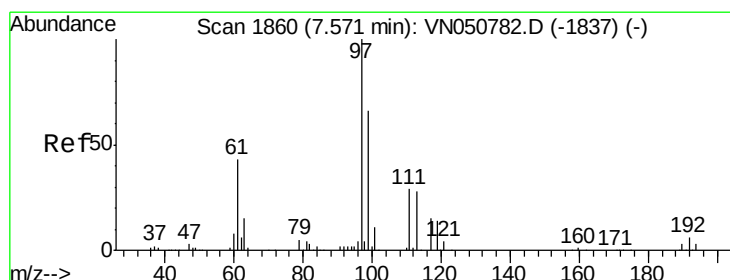
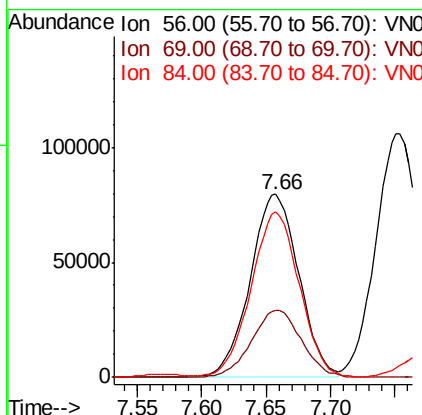
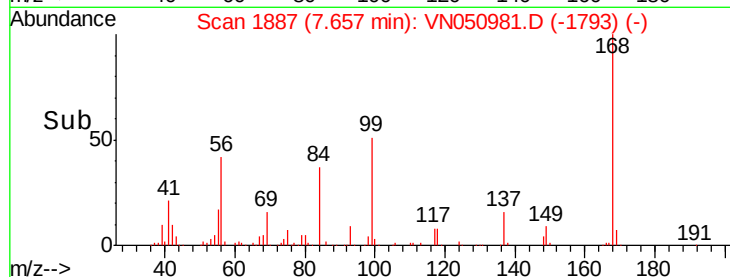
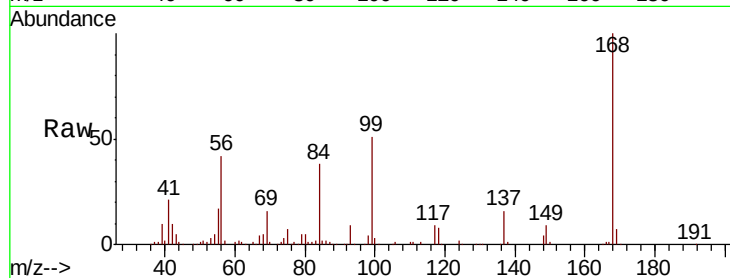
ClientSampled :

VN0831WBSD01

Tot Ion:	56	Resp:	209251
Ion Ratio	Lower	Upper	
56	100		
69	36.8	26.2	39.4
84	89.2	68.3	102.5

Manual Integrations
APPROVED

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9/4/2018 12:27:54 PM



#32

1,1,1-Trichloroethane

Concen: 19.72 ug/l

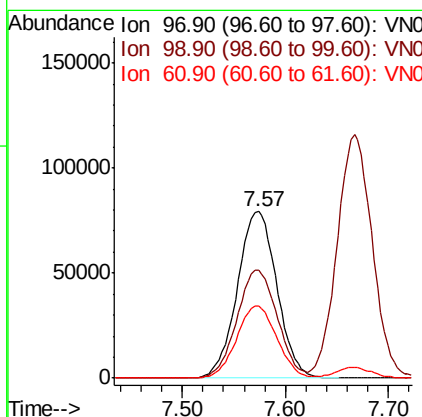
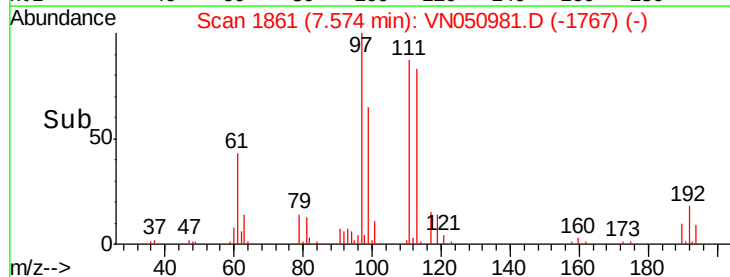
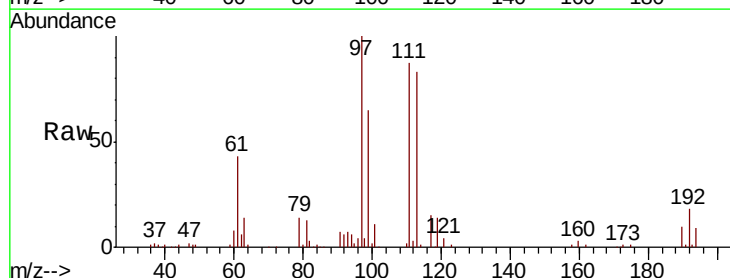
RT: 7.57 min Scan# 1861

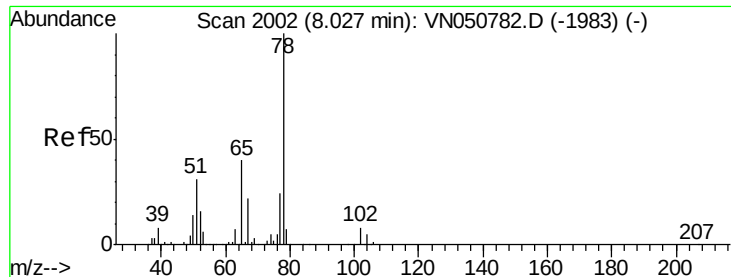
Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion:	97	Resp:	211143
Ion Ratio	Lower	Upper	
97	100		
99	66.3	51.8	77.6
61	44.3	34.9	52.3





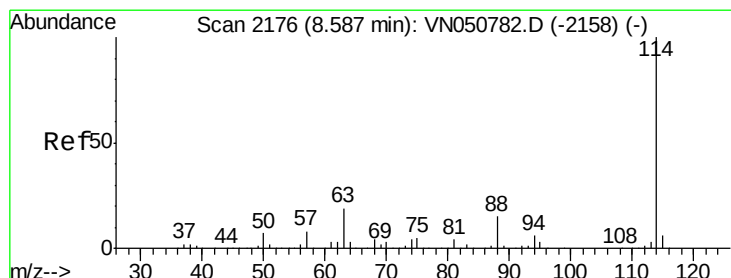
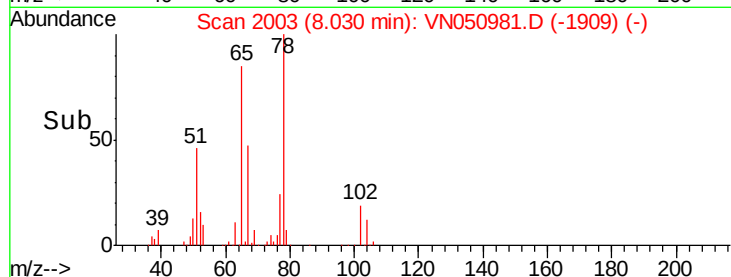
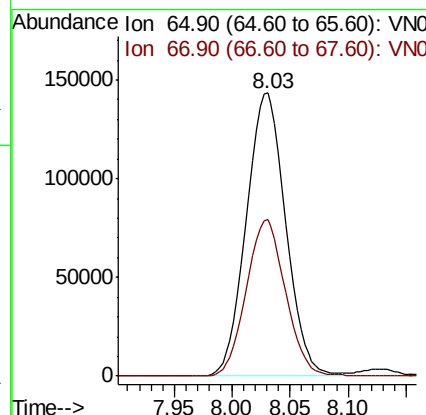
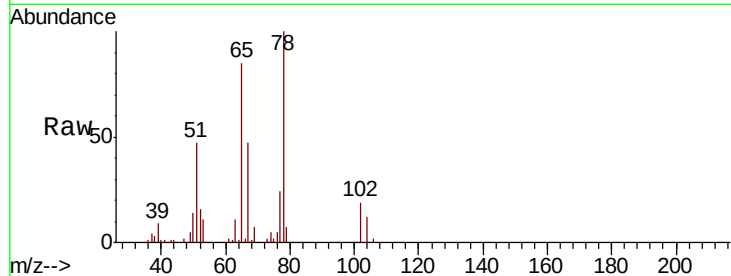
#33
 1,2-Dichloroethane-d4
 Concen: 50.15 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.9	0.0	110.4	

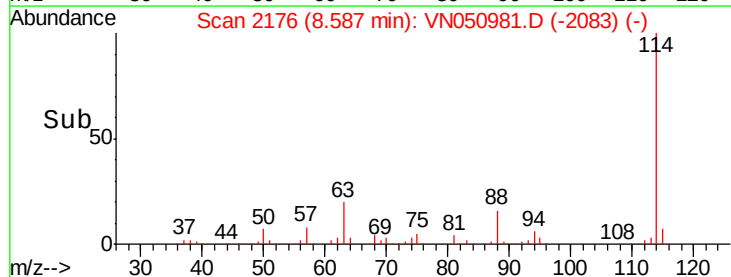
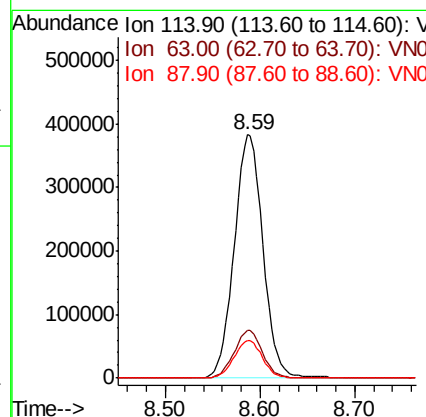
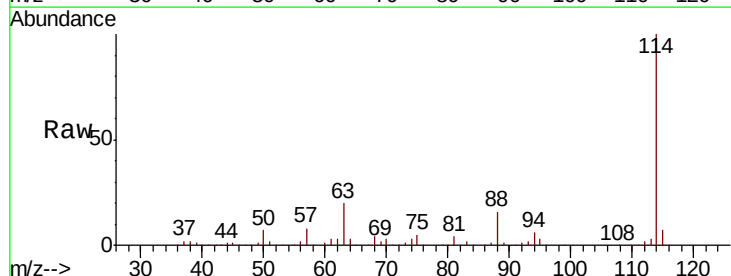
Manual Integrations
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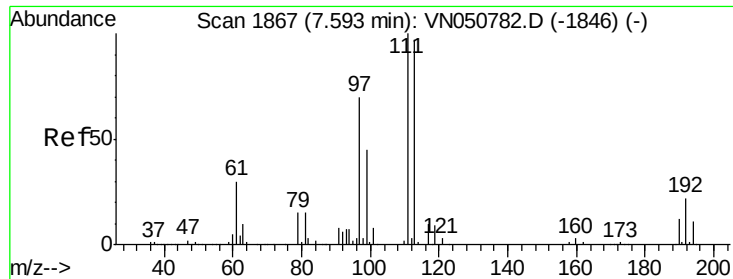
MMDadoda
 9/4/2018 12:27:54 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.8	0.0	38.6	
88	15.6	0.0	30.6	





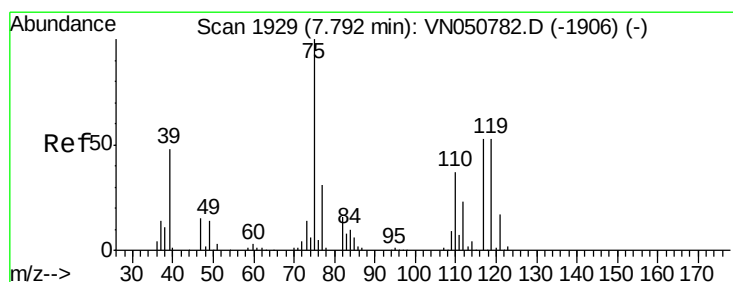
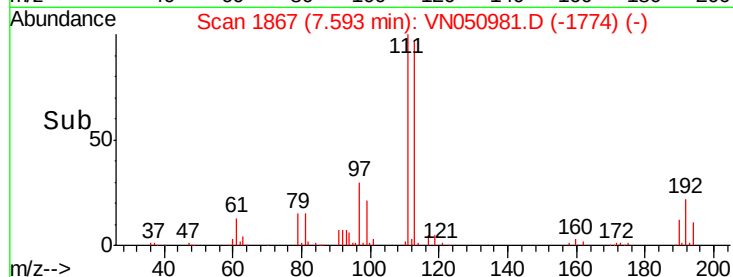
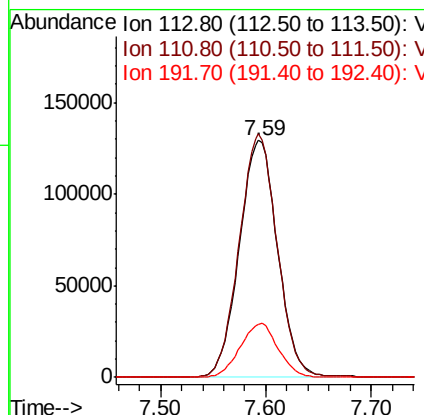
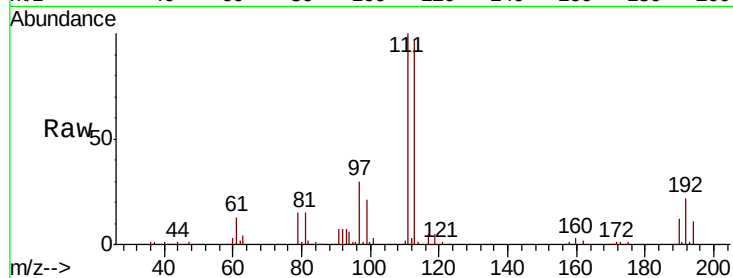
#35
 Dibromofluoromethane
 Concen: 50.91 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.3	82.6	123.8	
192	22.6	18.0	27.0	

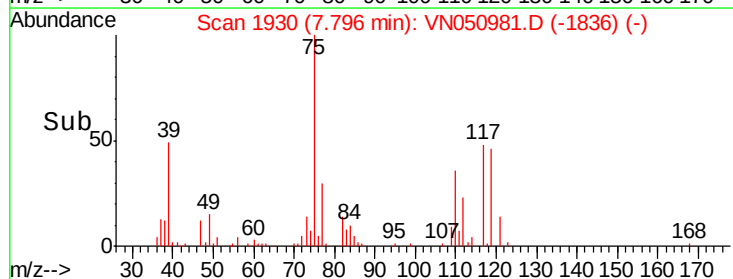
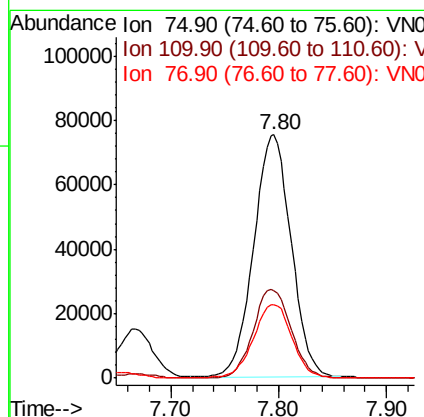
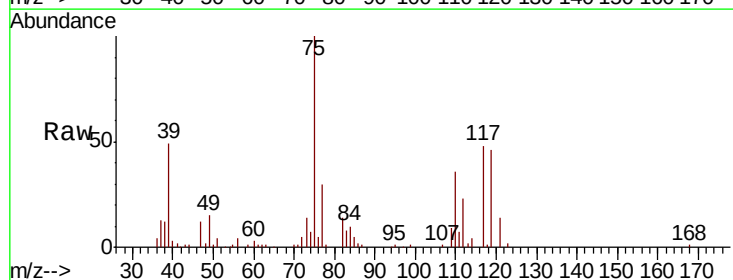
Manual Integrations
 APPROVED

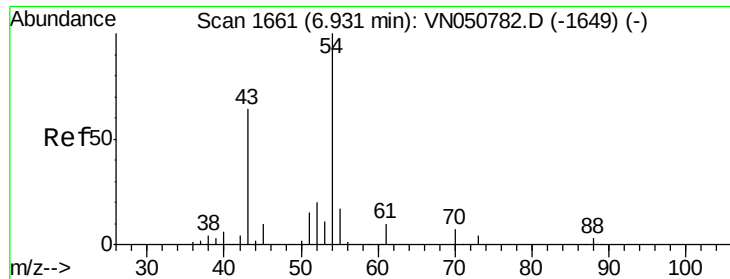
MMDadoda
 9/4/2018 12:27:54 PM



#36
 1,1-Dichloropropene
 Concen: 19.08 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.0	18.1	54.4	
77	31.3	24.8	37.2	





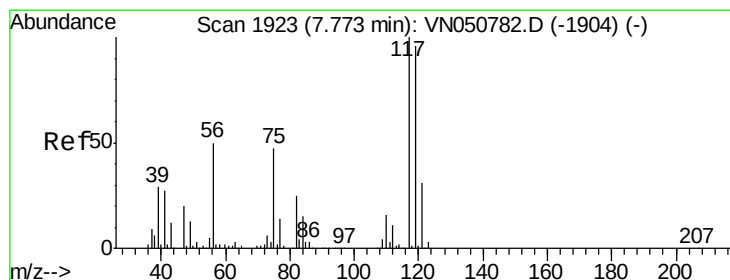
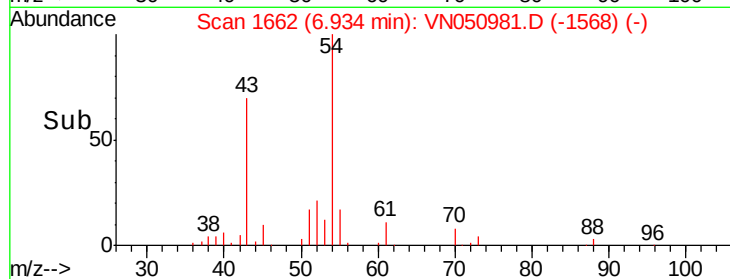
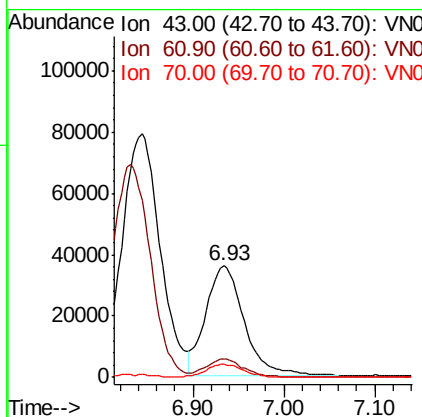
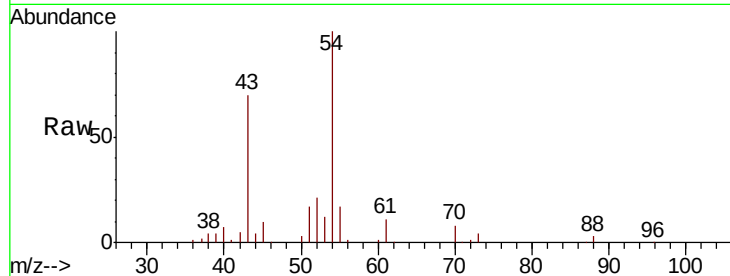
#37
Ethyl Acetate
Concen: 19.27 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.6	12.0	18.0
70	11.7	8.6	13.0

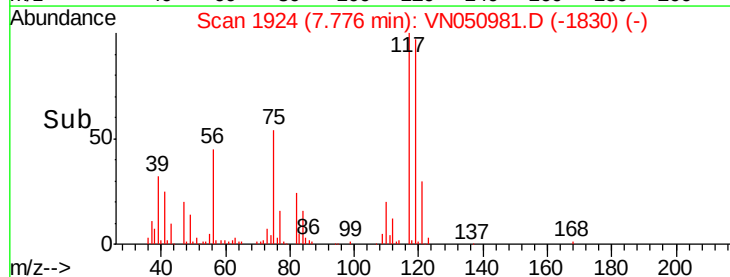
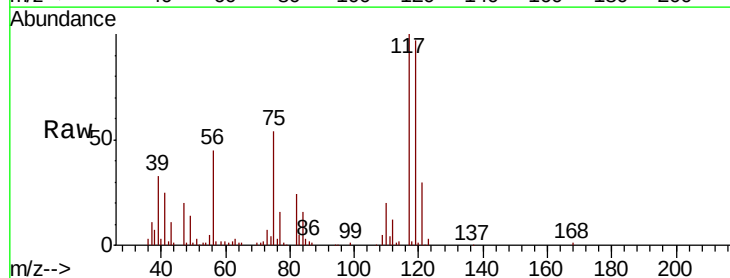
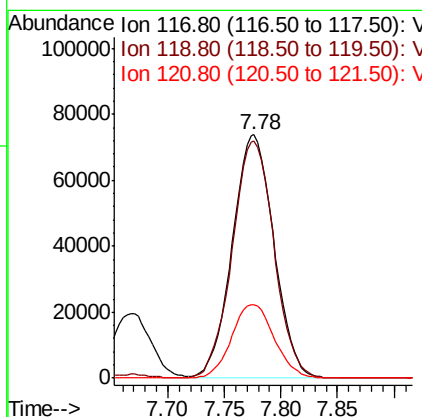
Manual Integrations
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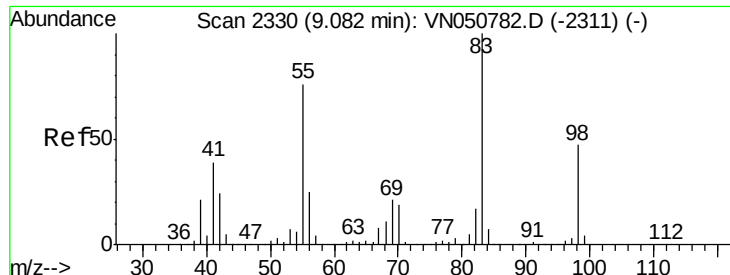
MMDadoda
9/4/2018 12:27:54 PM



#38
Carbon Tetrachloride
Concen: 19.62 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.5	76.3	114.5
121	30.2	24.6	36.8





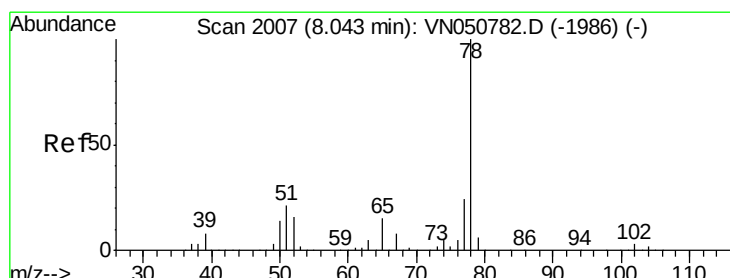
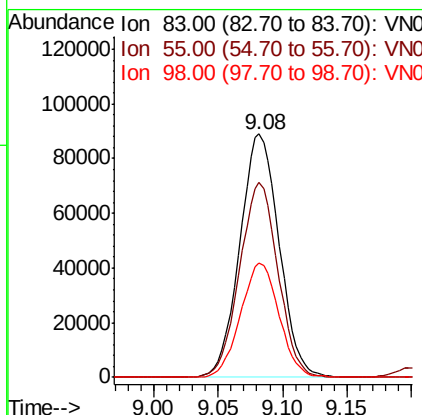
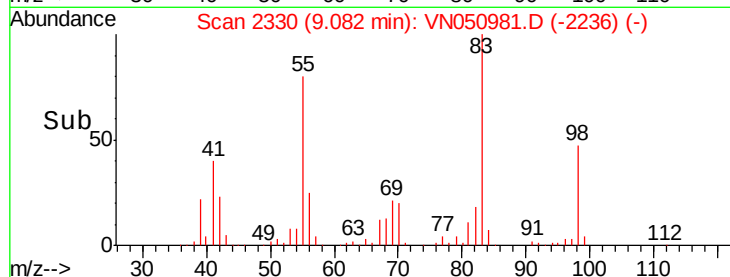
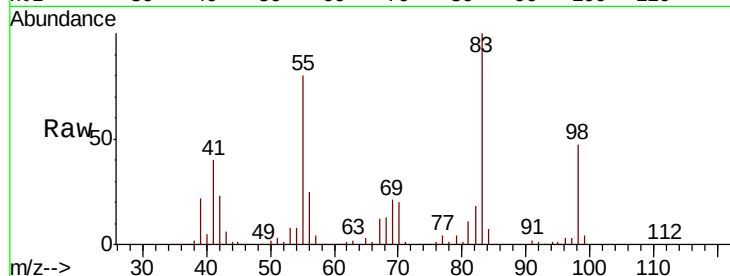
#39
Methylvlcyclohexane
Concen: 18.30 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.1	61.0	91.4
98	47.1	37.5	56.3

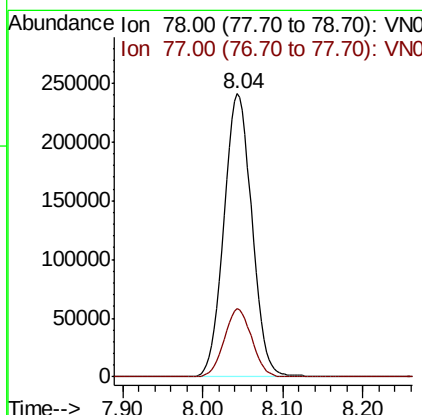
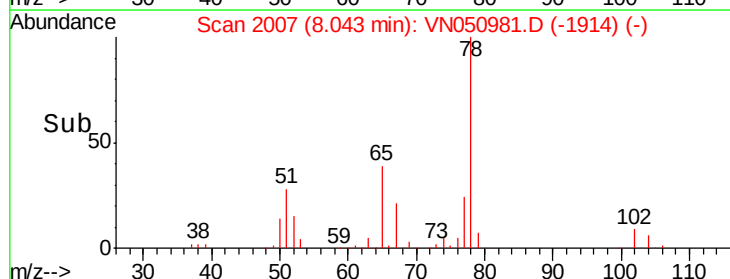
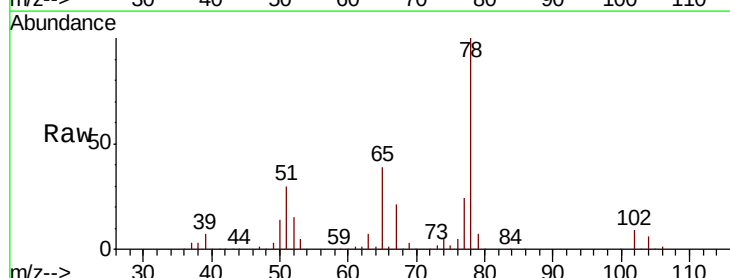
Manual Integrations
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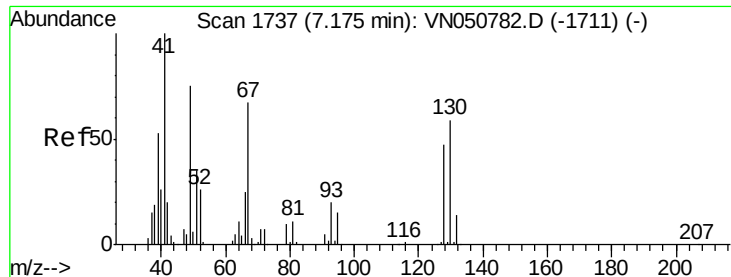
MMDadoda
9/4/2018 12:27:54 PM



#40
Benzene
Concen: 20.00 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4





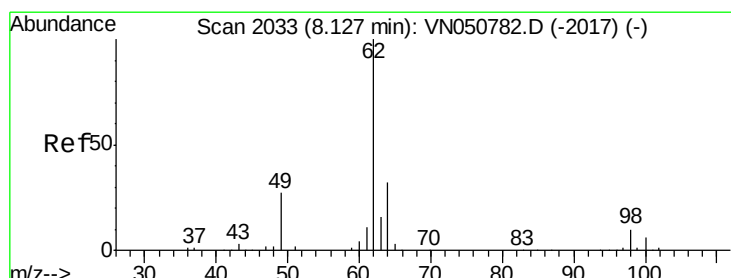
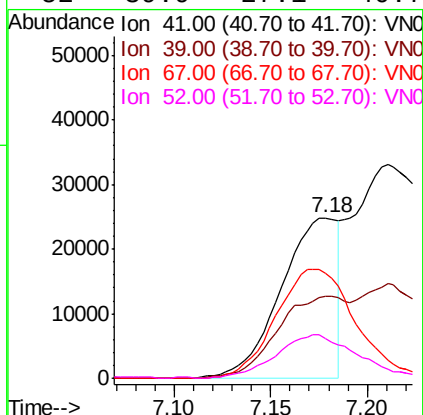
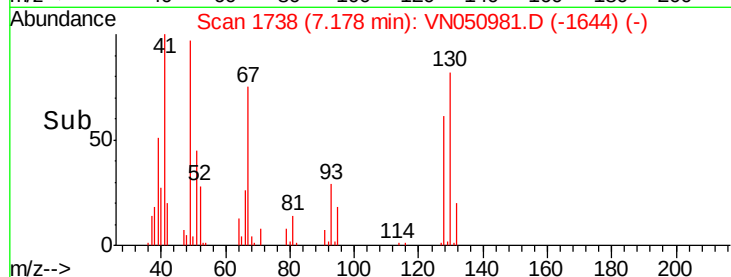
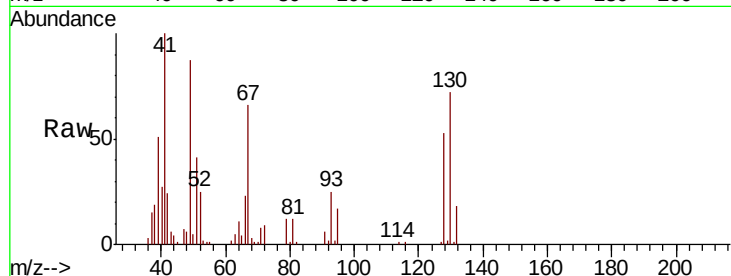
#41
Methacrylonitrile
Concen: 17.12 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBSD01

Tot Ion	41.00	Resp	50724
Ion	Ratio	Lower	Upper
41	100		
39	63.2	45.4	68.0
67	97.3	70.6	106.0
52	39.9	27.1	40.7

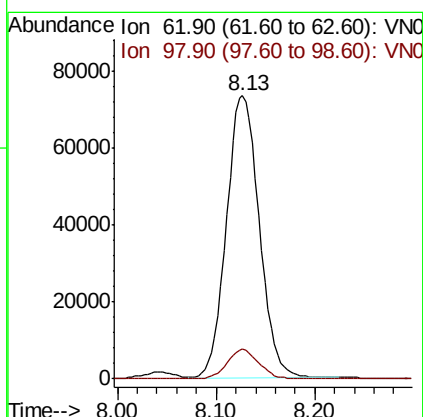
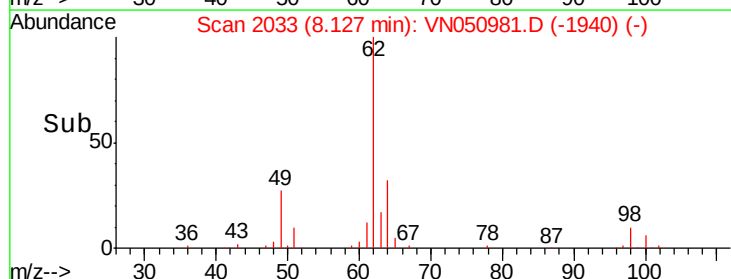
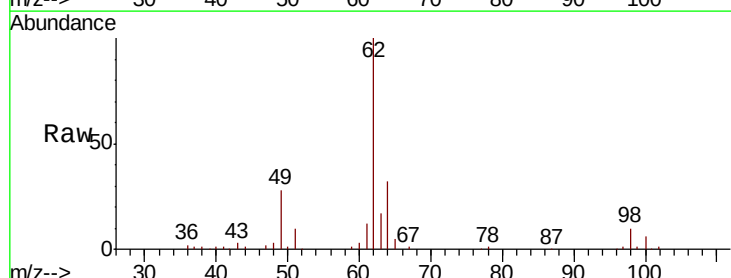
Manual Integrations
APPROVED

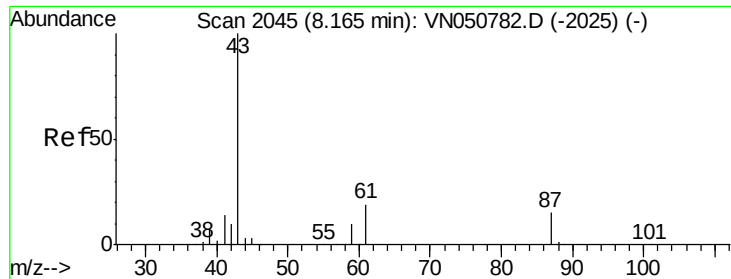
MMDadoda
9/4/2018 12:27:54 PM



#42
1,2-Dichloroethane
Concen: 19.91 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	62	Resp	171103
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.6





#43

Isopropyl Acetate

Concen: 20.36 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

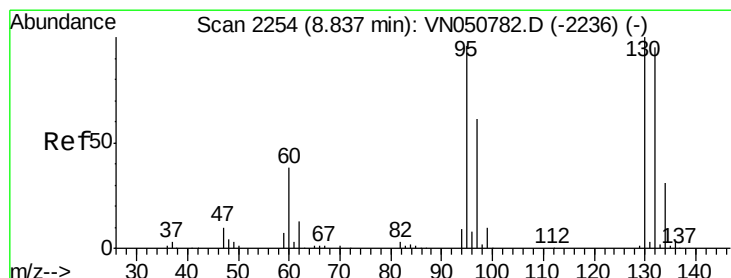
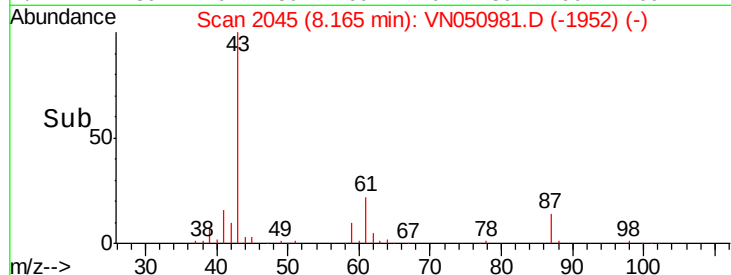
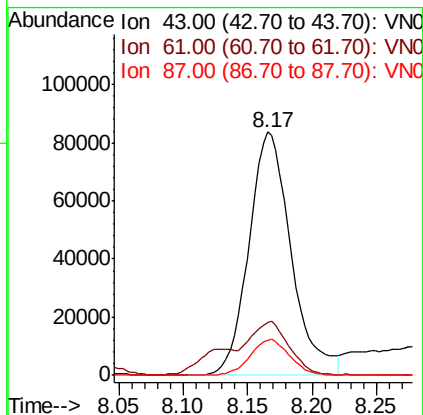
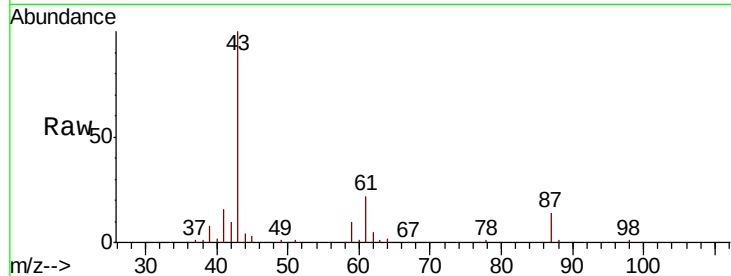
ClientSampleId :

VN0831WBSD01

Tot Ion:	43	Resp:	191663
Ion	Ratio	Lower	Upper
43	100		
61	19.9	17.5	26.3
87	13.7	11.3	16.9

Manual Integrations
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#44

Trichloroethene

Concen: 19.57 ug/l

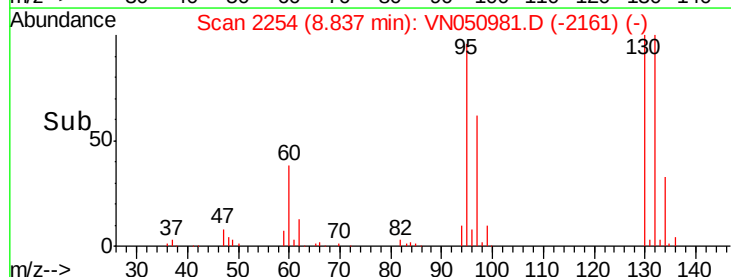
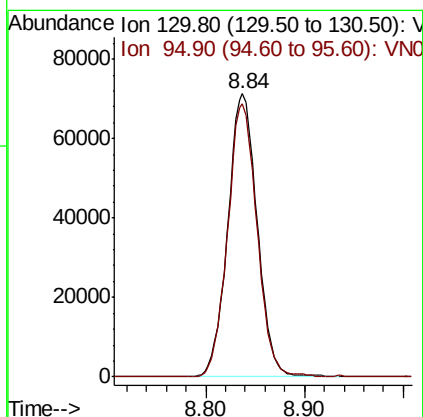
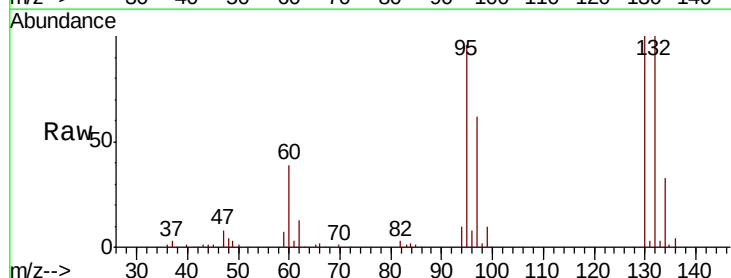
RT: 8.84 min Scan# 2254

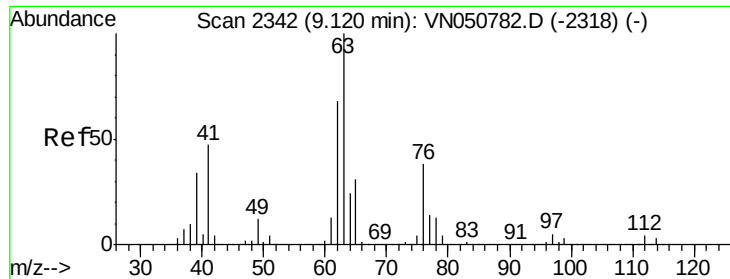
Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion:	130	Resp:	148377
Ion	Ratio	Lower	Upper
130	100		
95	96.3	0.0	193.0





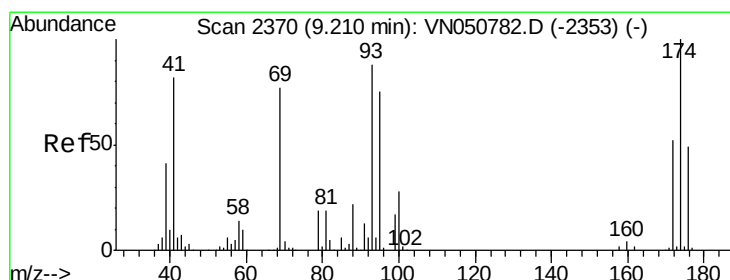
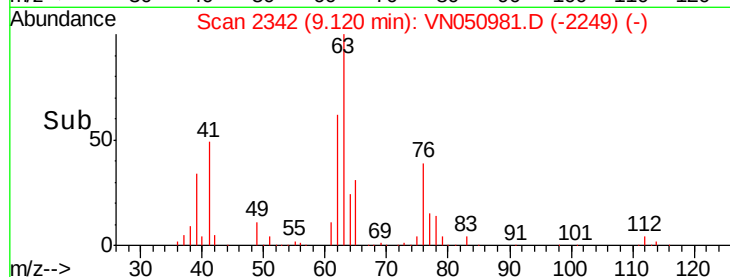
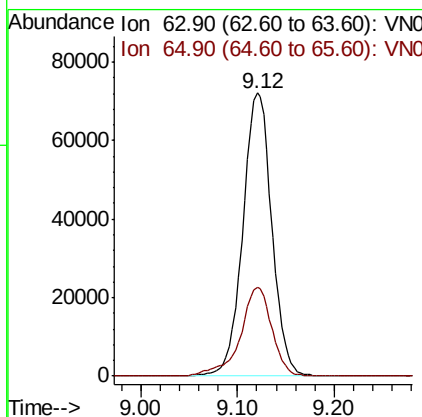
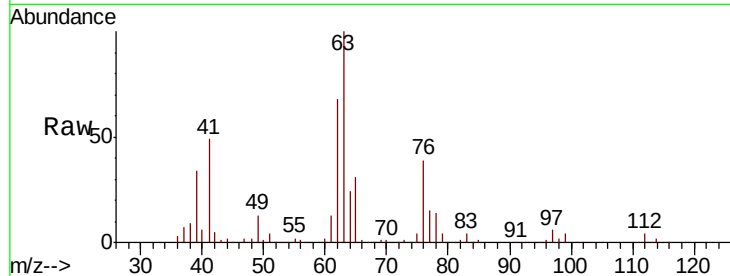
#45
 1,2-Dichloropropane
 Concen: 19.85 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBSD01

Tot Ion: 63 Resp: 149963
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.0 37.6

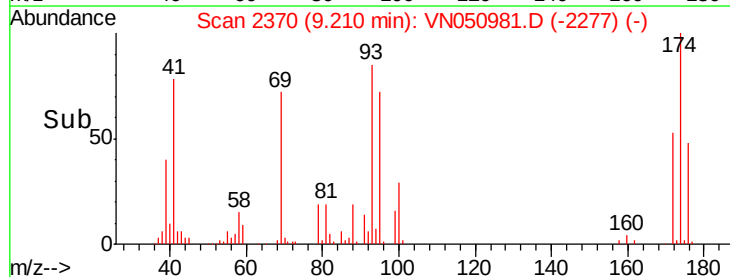
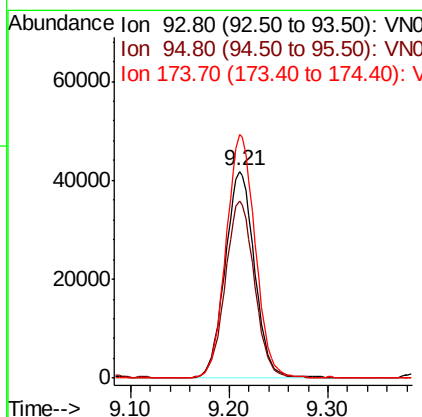
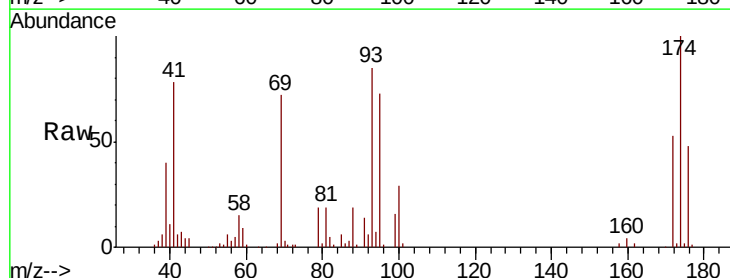
Manual Integrations
 APPROVED

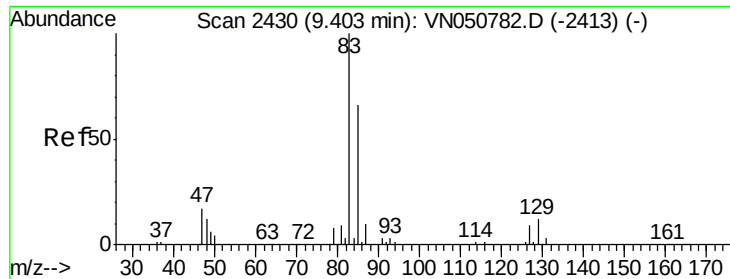
MMDadoda
 9/4/2018 12:27:54 PM



#46
 Dibromomethane
 Concen: 19.64 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion: 93 Resp: 87186
 Ion Ratio Lower Upper
 93 100
 95 84.9 66.7 100.1
 174 116.8 89.8 134.6





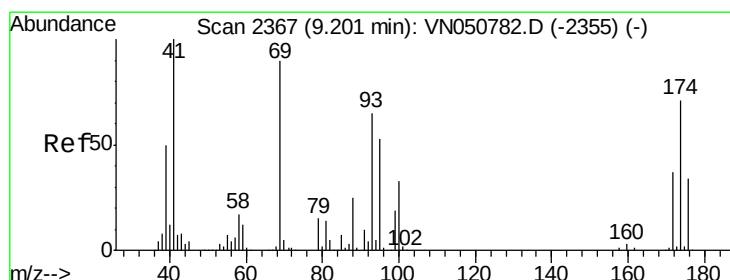
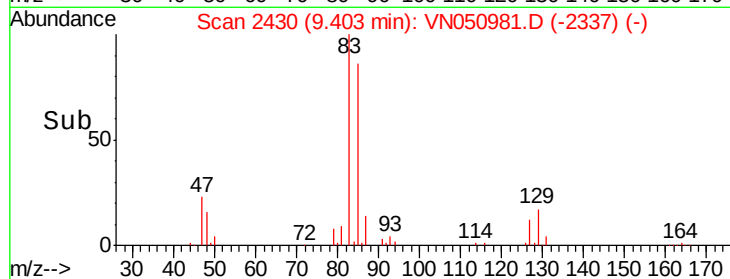
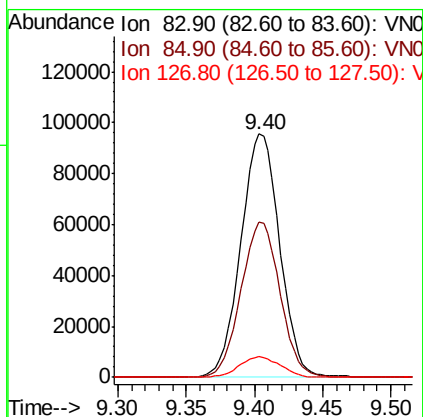
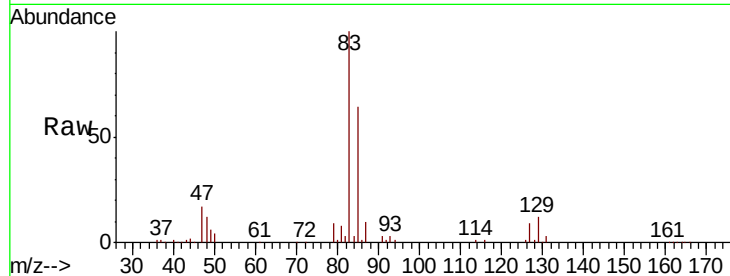
#47
Bromodichloromethane
Concen: 20.31 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	188863		
85	63.5	52.6	78.8	
127	8.5	7.2	10.8	

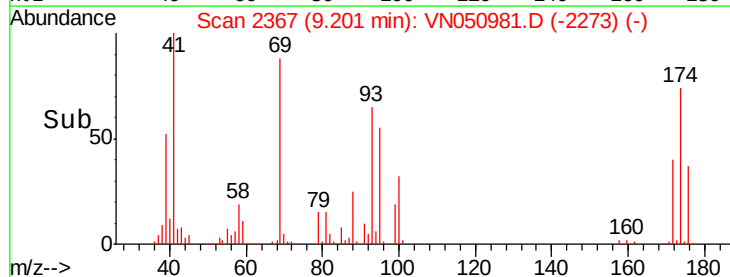
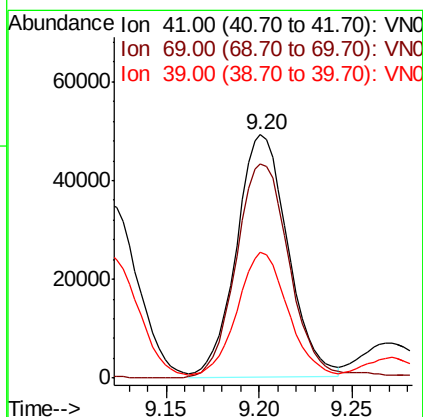
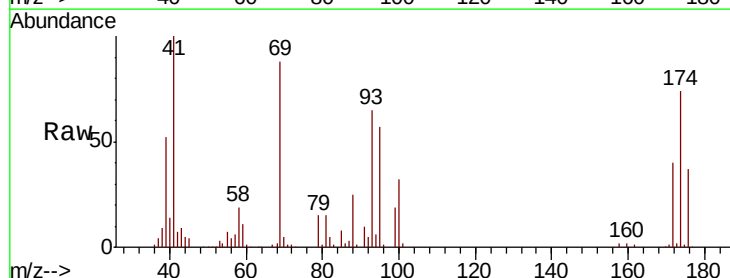
Manual Integrations
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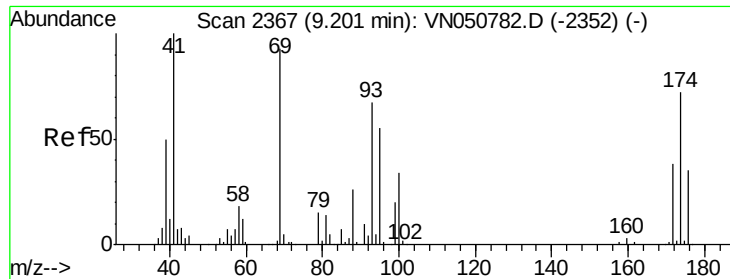
MMDadoda
9/4/2018 12:27:54 PM



#48
Methyl methacrylate
Concen: 19.68 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	94435		
69	93.3	74.7	112.1	
39	51.2	42.2	63.2	





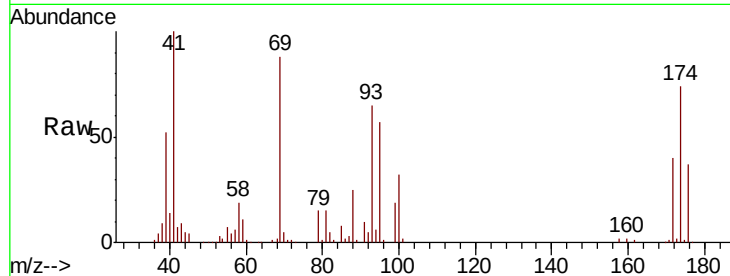
#49
1,4-Dioxane
Concen: 384.73 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.1	25.9	38.9
58	73.6	55.0	82.4

Manual Integrations
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MMDadoda
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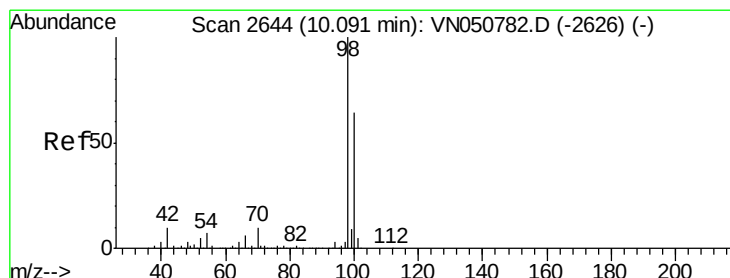
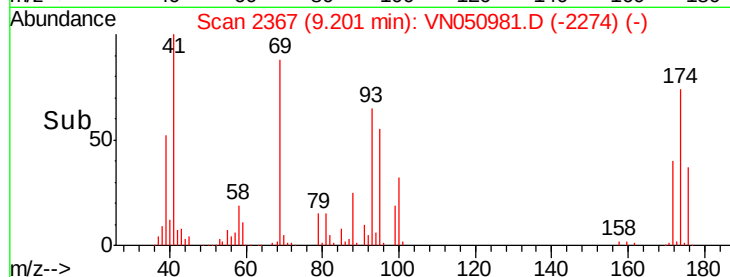
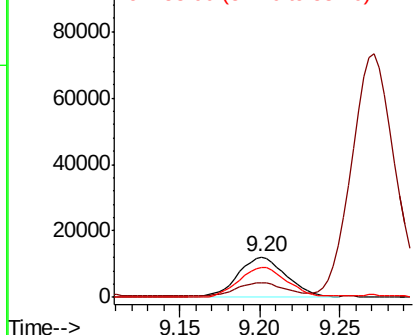


Abundance

Ion 88.00 (87.70 to 88.70): VN0

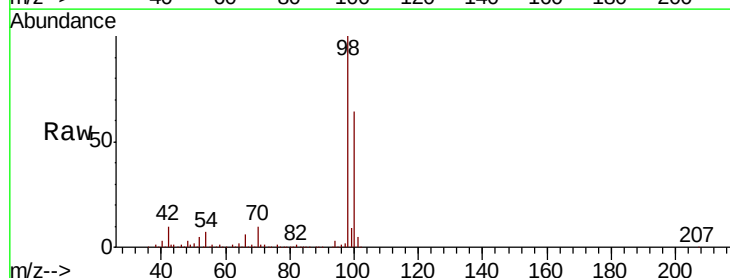
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 50.61 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

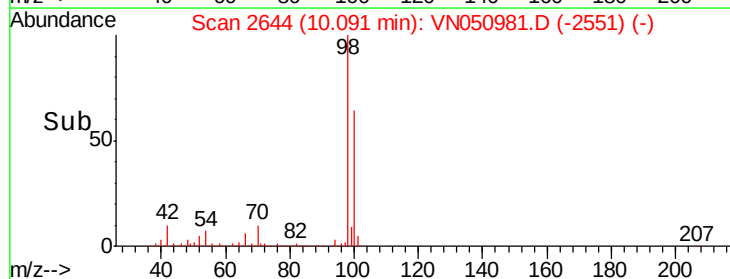
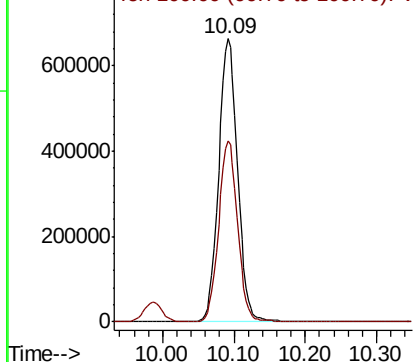
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.5	77.3

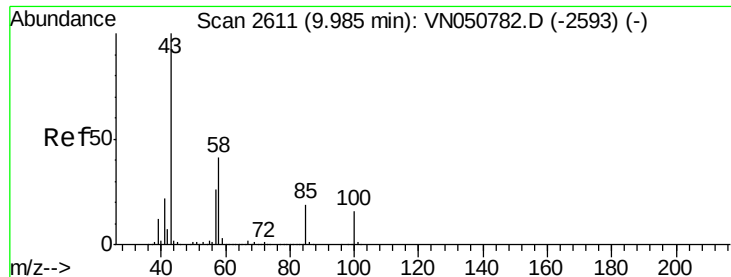


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





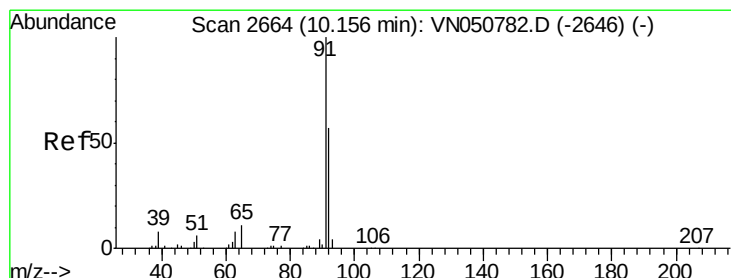
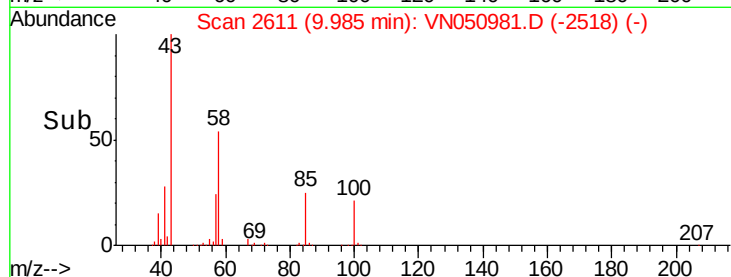
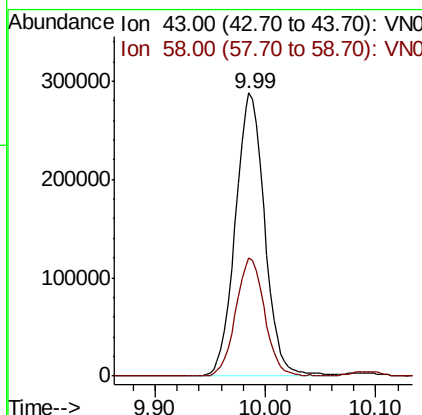
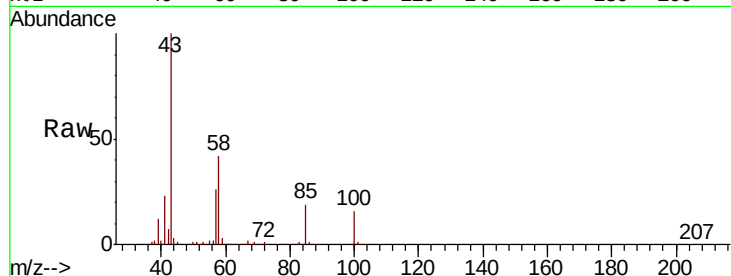
#51
 4-Methyl-2-Pentanone
 Concen: 93.96 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.2	32.4	48.6

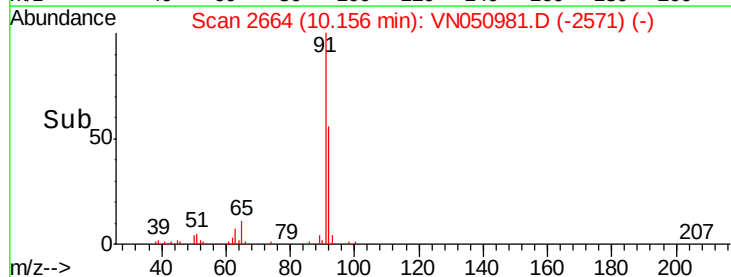
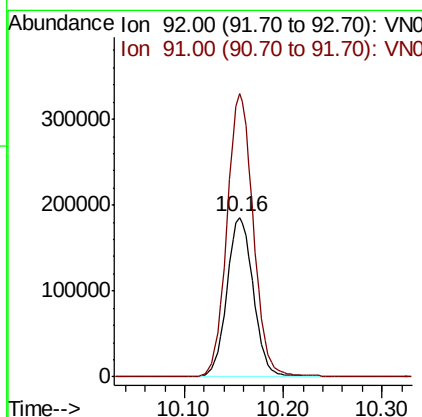
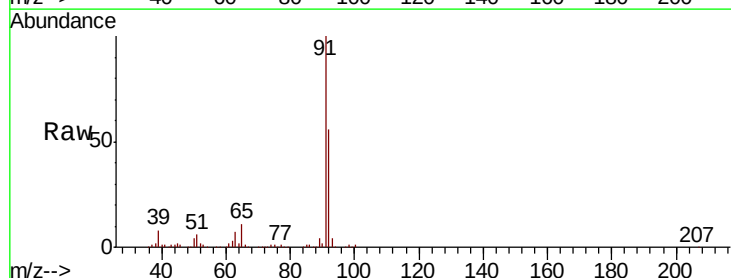
Manual Integrations
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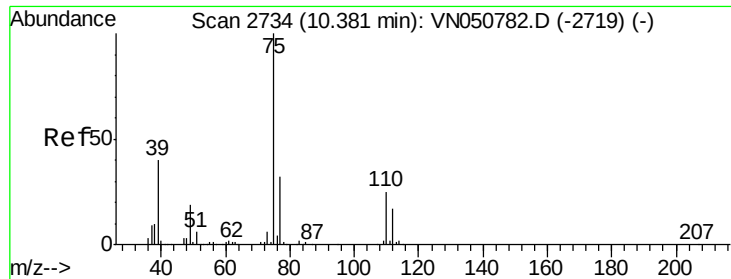
MMDadoda
 9/4/2018 12:27:54 PM



#52
 Toluene
 Concen: 20.37 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
92	100		
91	176.4	140.6	211.0





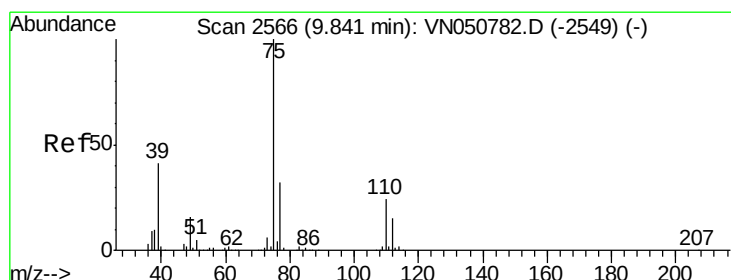
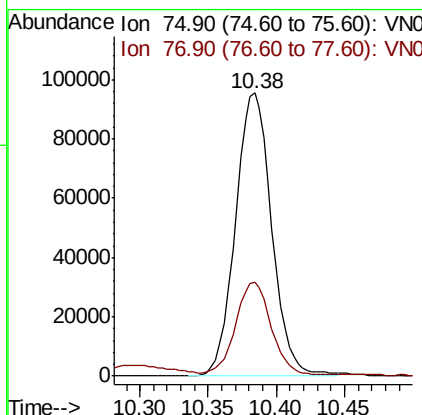
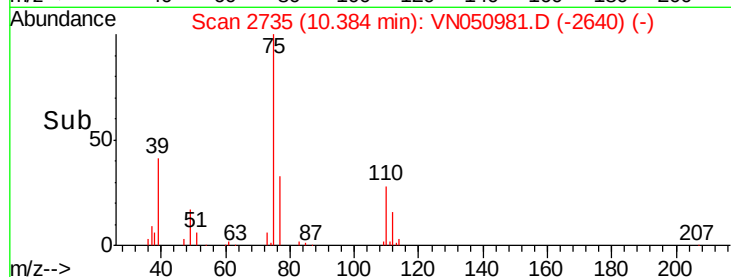
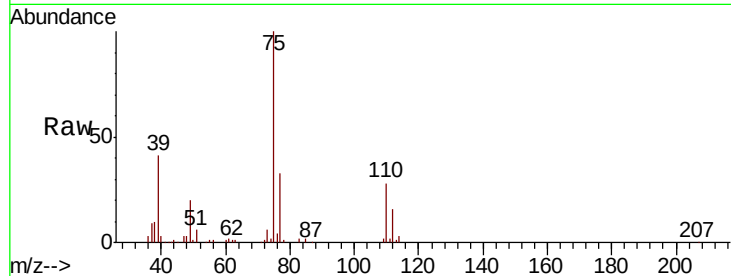
#53
t-1,3-Dichloropropene
Concen: 19.04 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.7	38.5

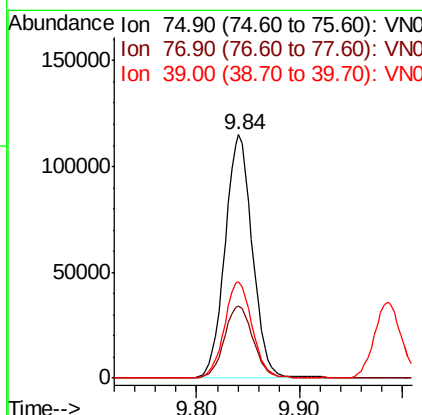
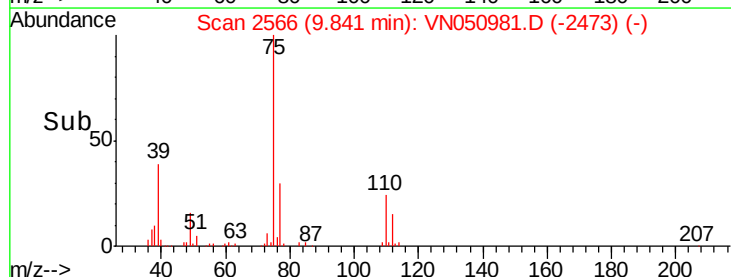
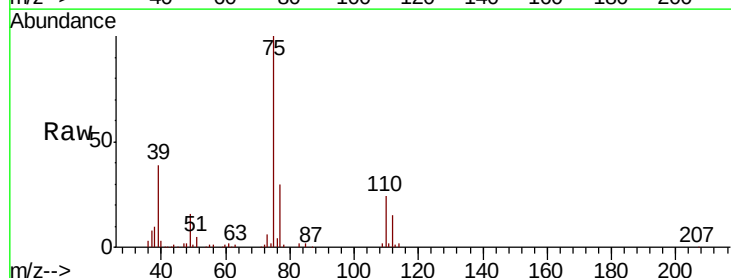
Manual Integrations
APPROVED

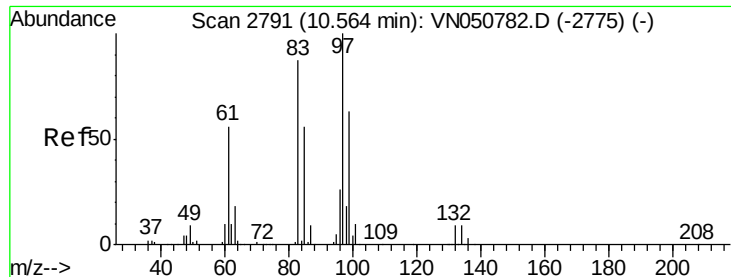
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#54
cis-1,3-Dichloropropene
Concen: 20.09 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.8	25.4	38.2
39	39.2	33.0	49.4





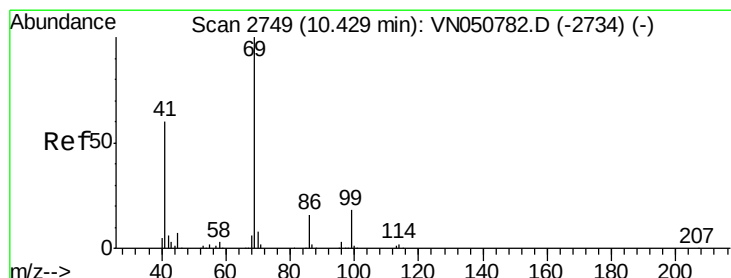
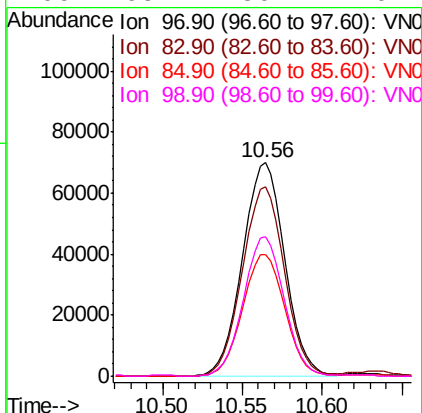
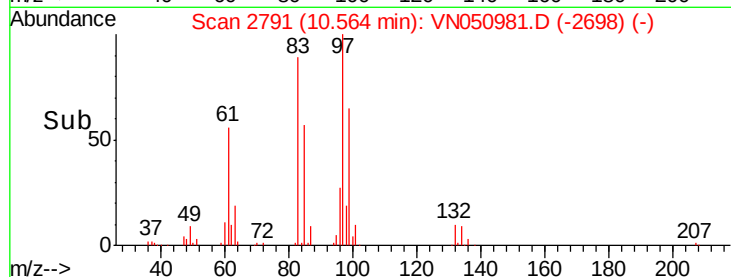
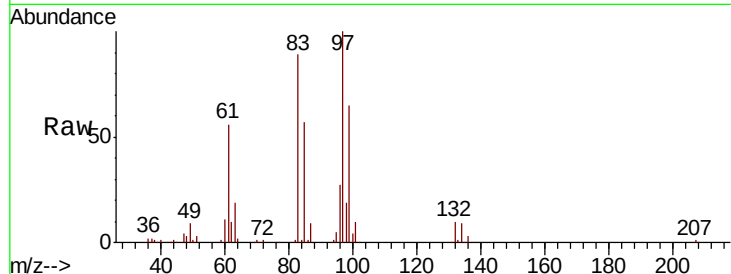
#55
 1,1,2-Trichloroethane
 Concen: 19.98 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		126301		
83	88.6	69.7	104.5		
85	57.2	44.5	66.7		
99	65.2	50.7	76.1		

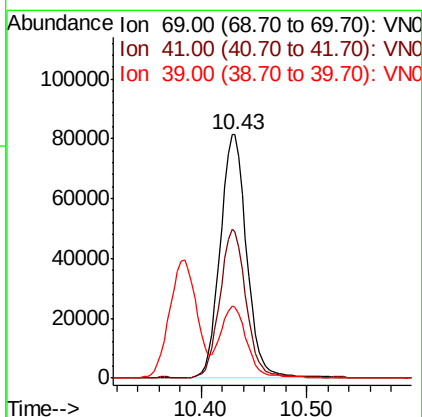
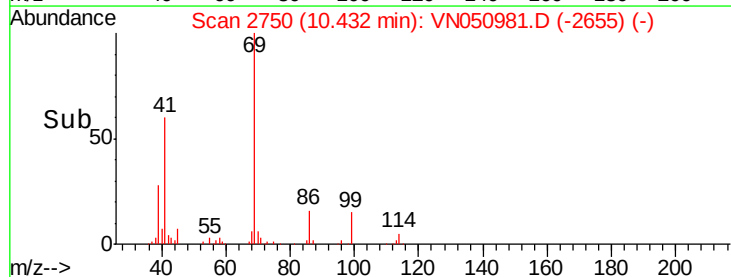
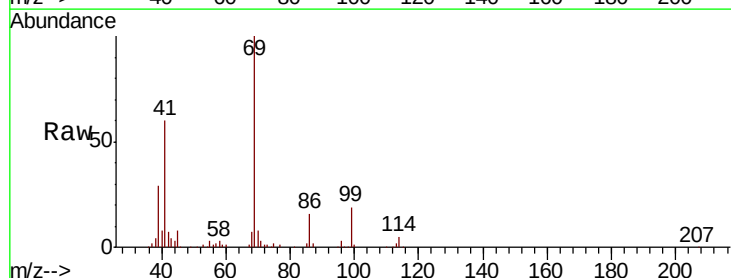
Manual Integrations
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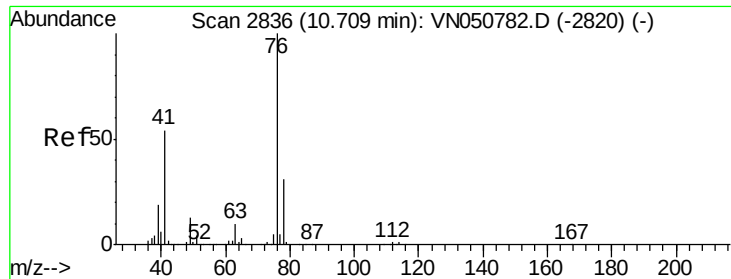
MMDadoda
 9/4/2018 12:27:54 PM



#56
 Ethyl methacrylate
 Concen: 18.77 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		141649		
41	59.9	48.3	72.5		
39	28.8	24.0	36.0		





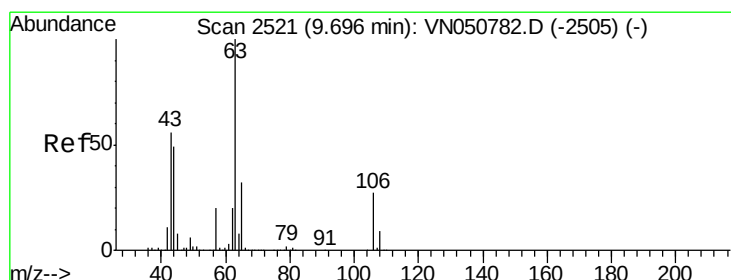
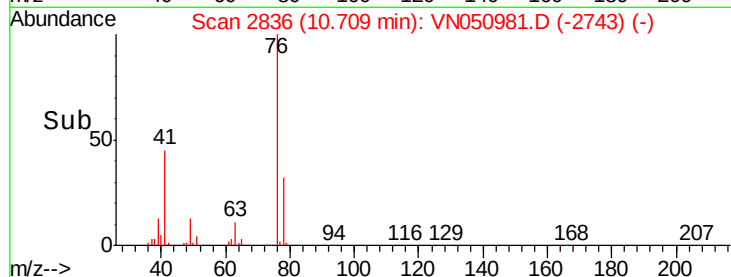
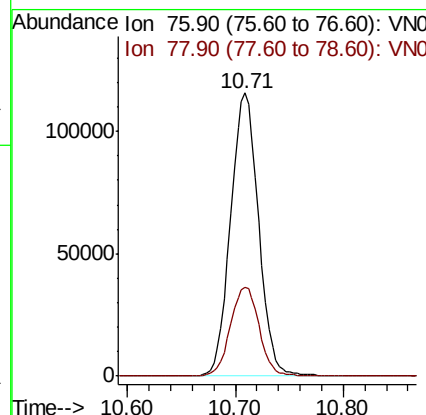
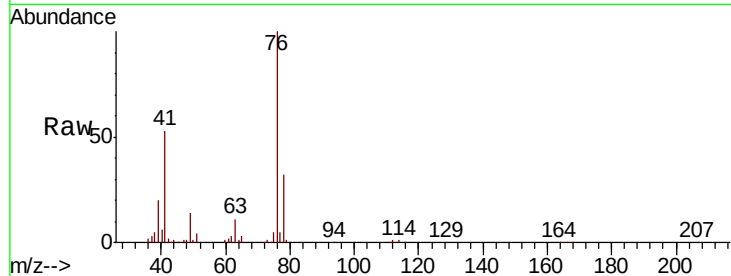
#57
 1,3-Dichloropropane
 Concen: 20.09 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBSD01

Tot Ion: 76 Resp: 209525
 Ion Ratio Lower Upper
 76 100
 78 32.5 25.5 38.3

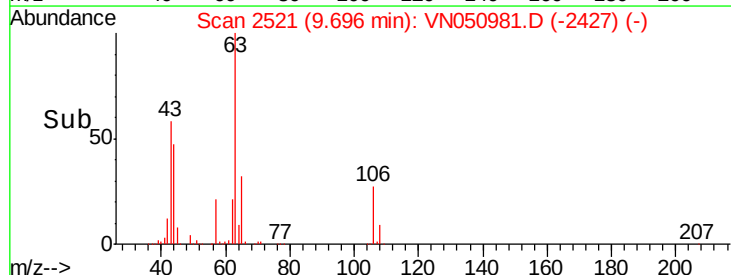
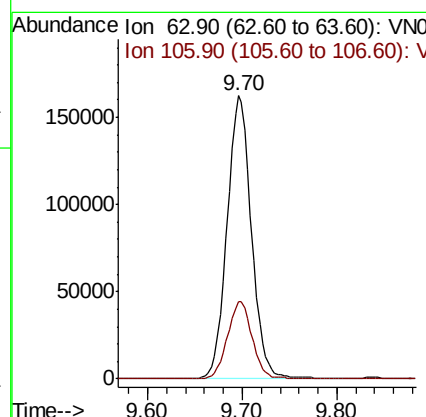
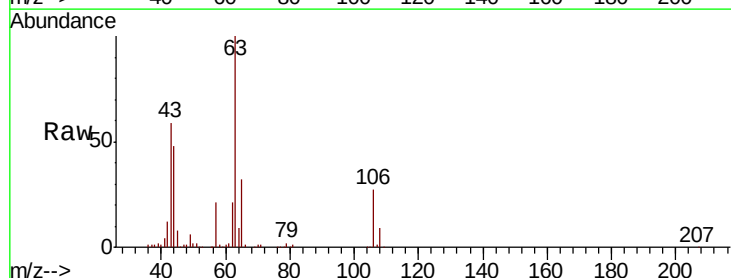
Manual Integrations
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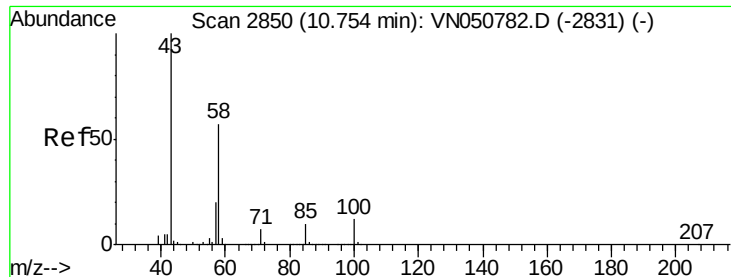
MMDadoda
 9/4/2018 12:27:54 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 89.33 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion: 63 Resp: 290855
 Ion Ratio Lower Upper
 63 100
 106 27.7 21.9 32.9





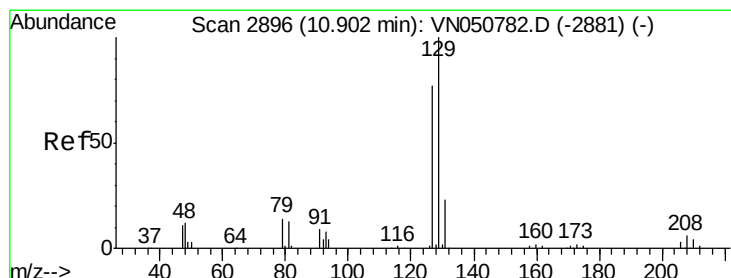
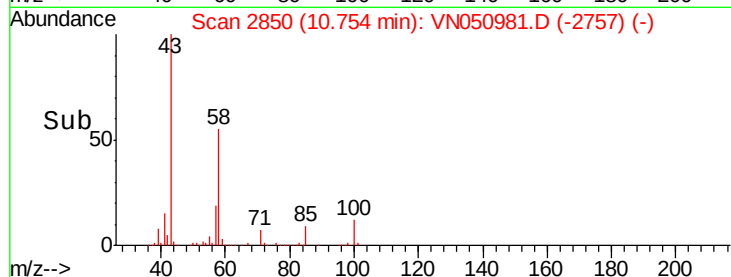
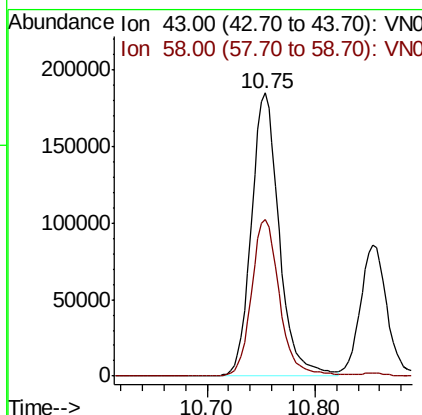
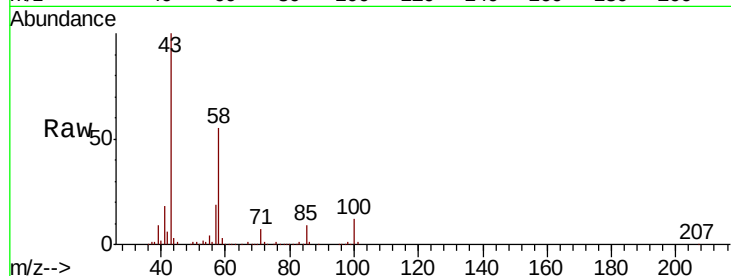
#59
2-Hexanone
Concen: 88.07 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.9	28.3	85.0

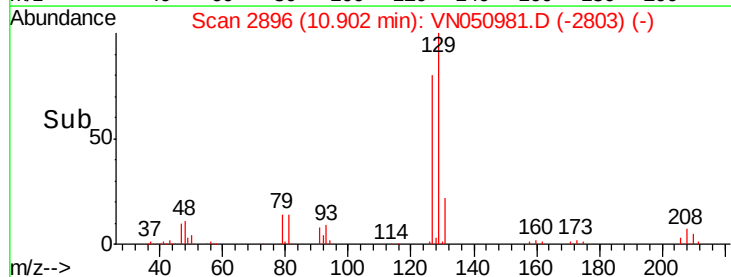
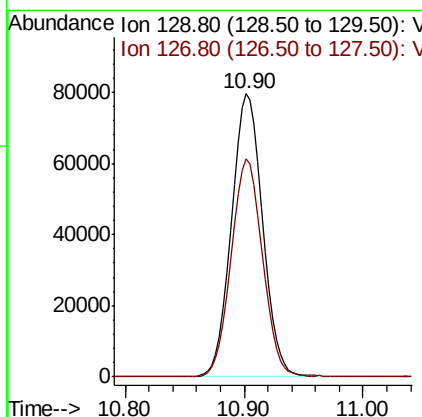
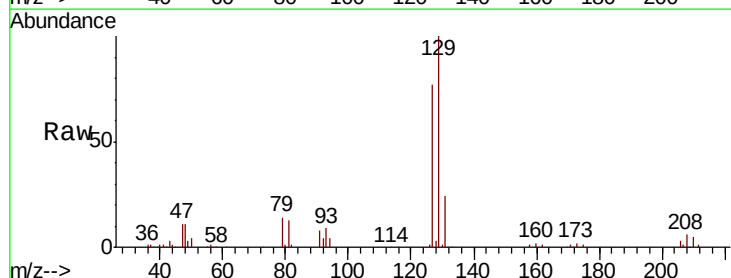
Manual Integrations
APPROVED

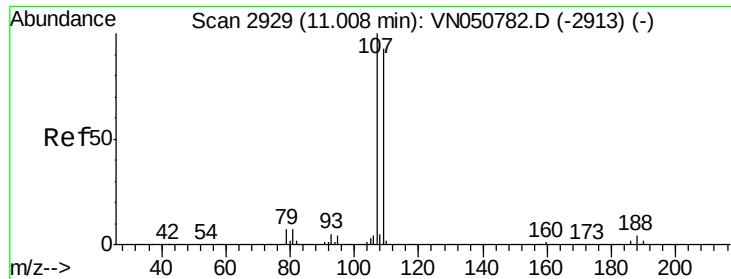
MMDadoda
9/4/2018 12:27:54 PM



#60
Dibromochloromethane
Concen: 20.44 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.3	114.9





#61

1,2-Dibromoethane

Concen: 19.66 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampled :

VN0831WBSD01

Tot Ion: 107 Resp: 120122

Ion Ratio Lower Upper

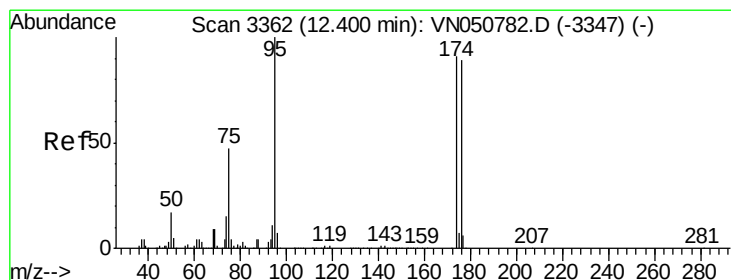
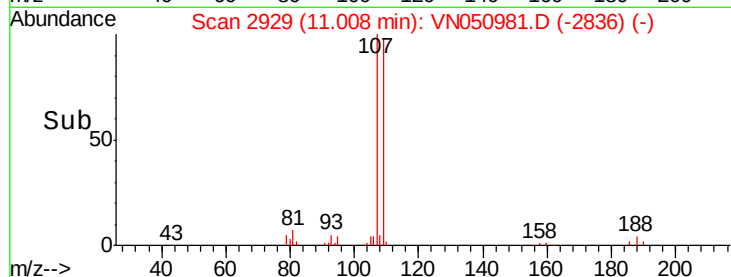
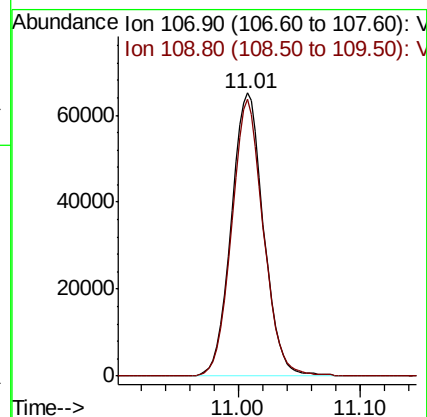
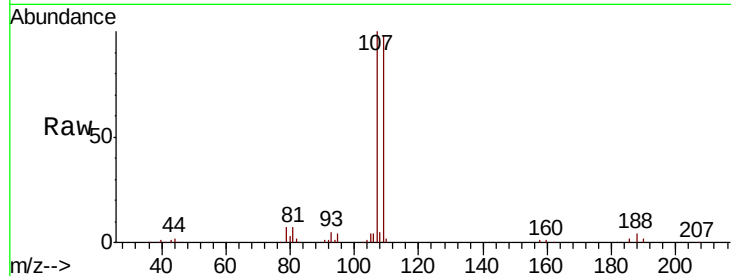
107 100

109 95.9 75.4 113.2

Manual Integrations
APPROVED

MMDadoda

9/4/2018 12:27:54 PM



#62

4-Bromofluorobenzene

Concen: 48.01 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

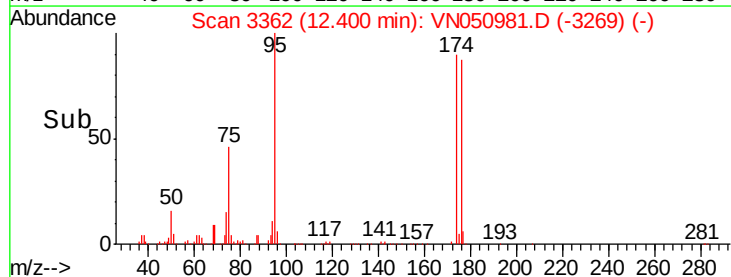
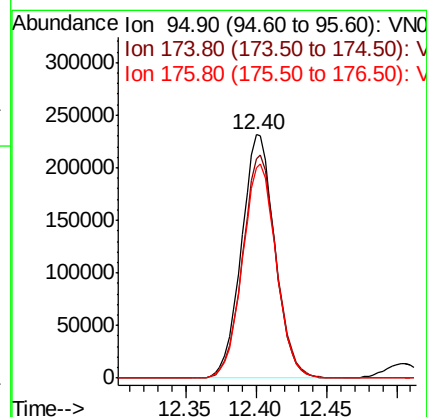
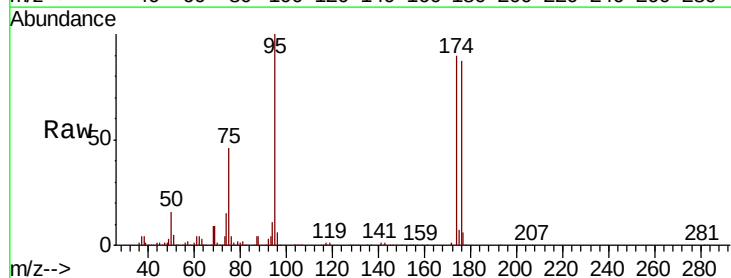
Tgt Ion: 95 Resp: 383339

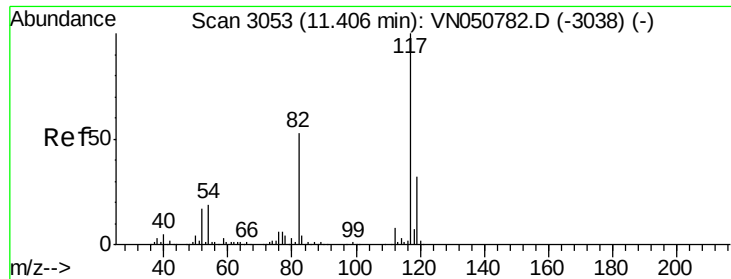
Ion Ratio Lower Upper

95 100

174 92.1 0.0 183.0

176 88.9 0.0 178.8





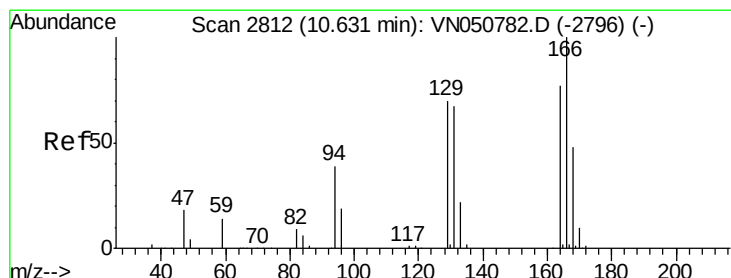
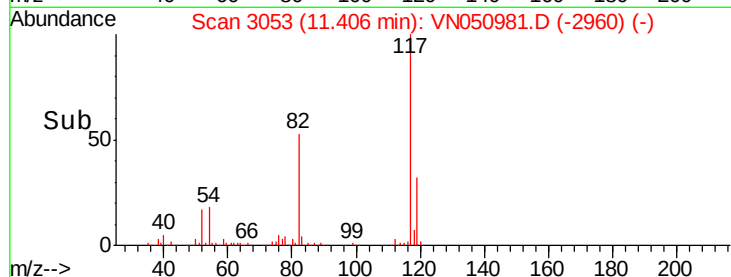
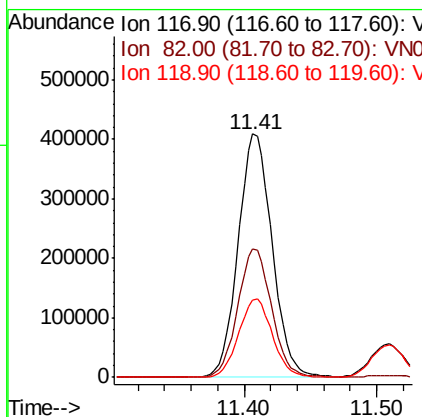
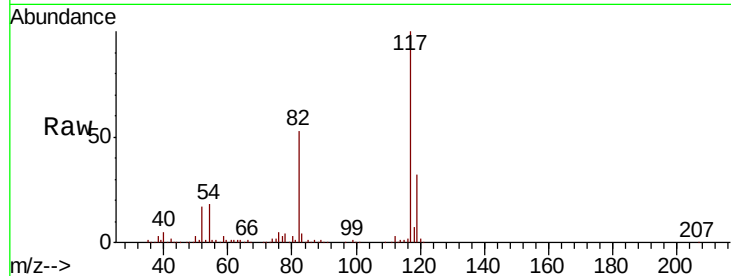
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.6	64.0
119	31.8	25.8	38.6

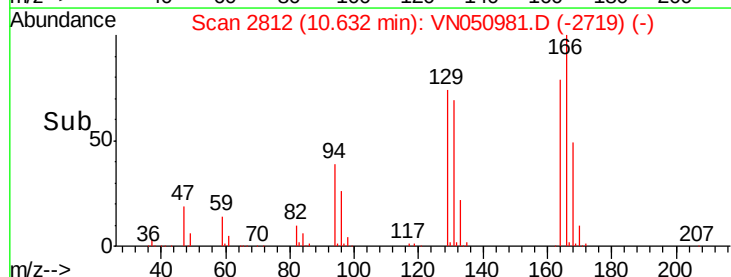
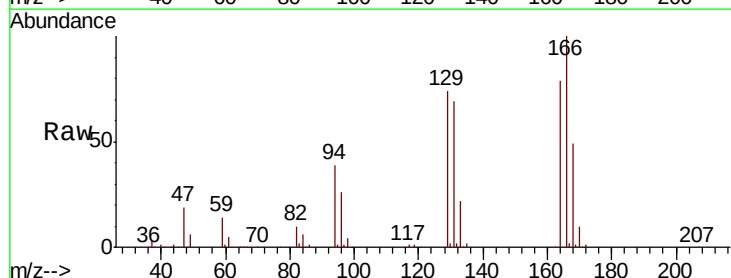
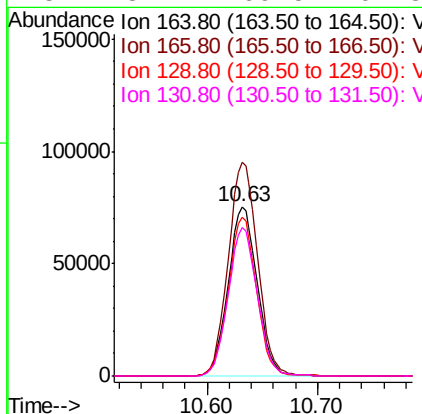
Manual Integrations
APPROVED

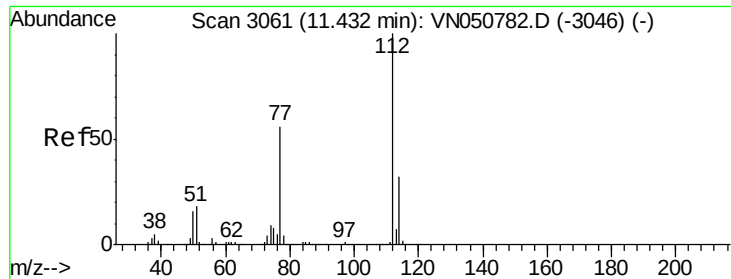
MMDadoda
9/4/2018 12:27:54 PM



#64
Tetrachloroethene
Concen: 19.89 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.2	103.5	155.3
129	93.9	72.7	109.1
131	87.4	69.5	104.3





#65

Chlorobenzene

Concen: 19.81 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion:112 Resp: 377405

Ion Ratio Lower Upper

112 100

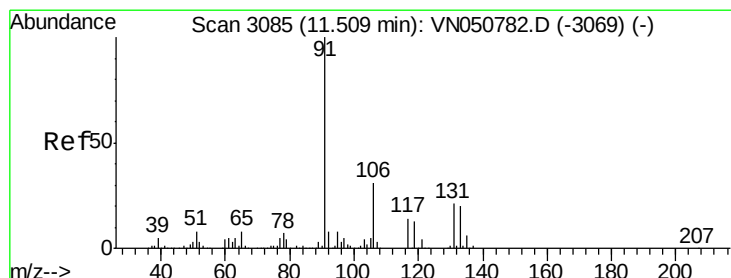
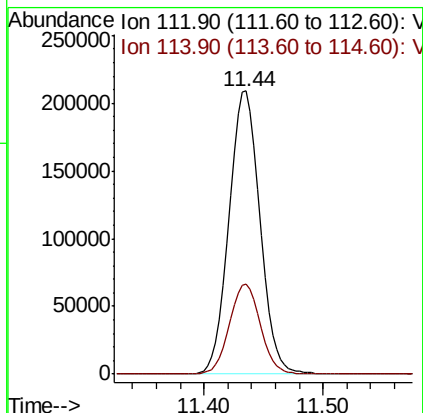
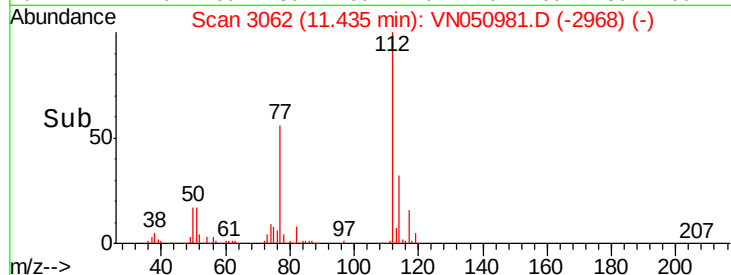
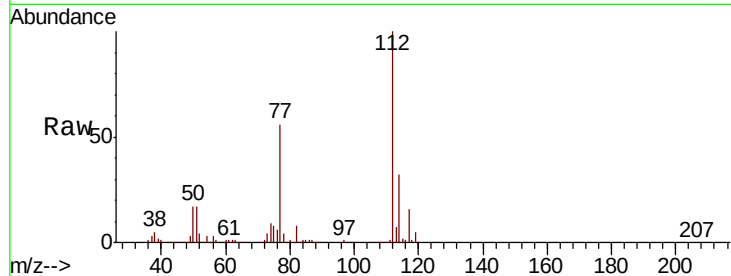
114 31.8 25.6 38.4

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 20.48 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

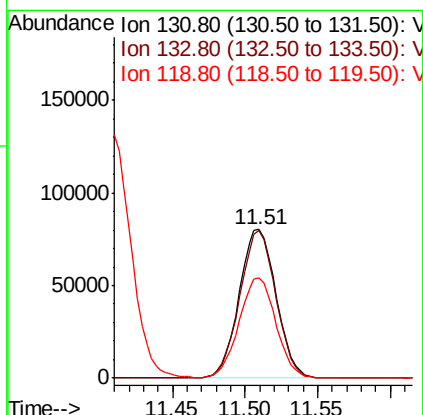
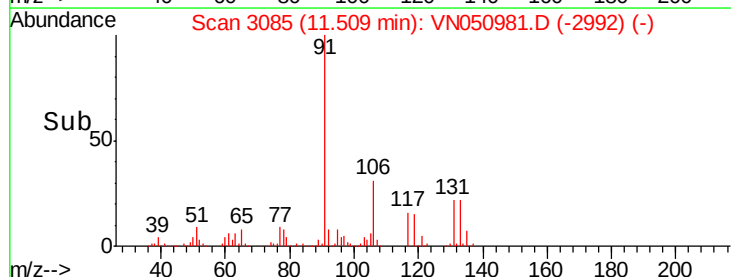
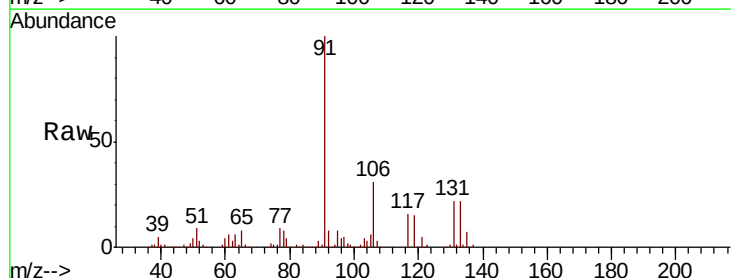
Tgt Ion:131 Resp: 142741

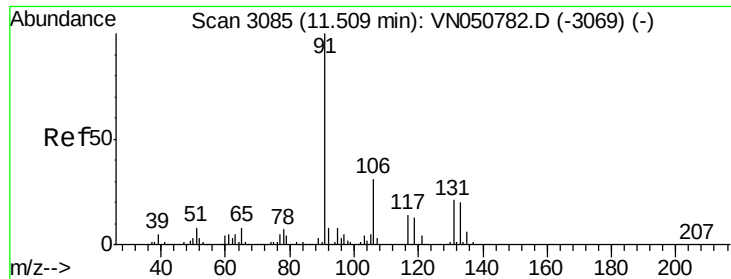
Ion Ratio Lower Upper

131 100

133 96.8 47.4 142.3

119 67.1 32.8 98.4





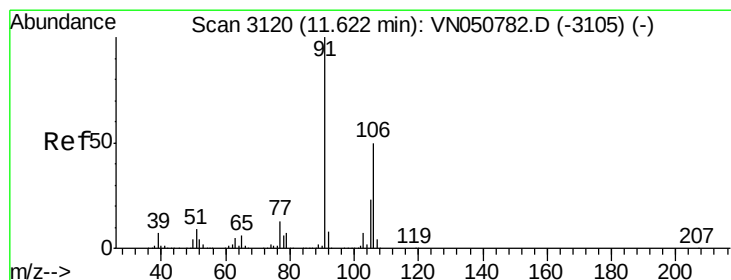
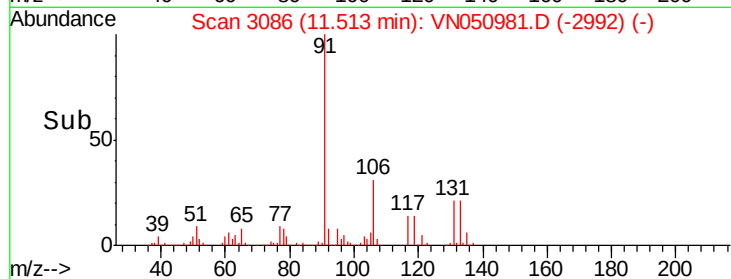
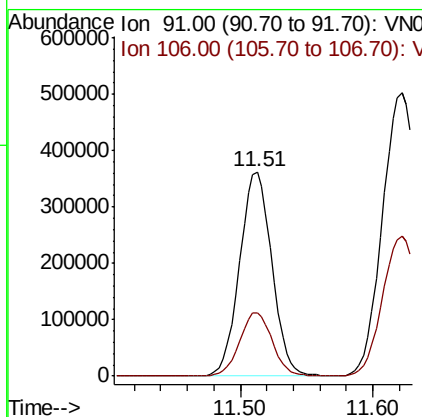
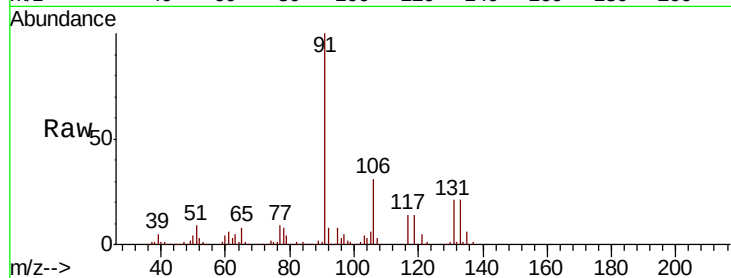
#67
Ethyl Benzene
Concen: 19.77 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion: 91 Resp: 612238
Ion Ratio Lower Upper
91 100
106 31.2 25.0 37.4

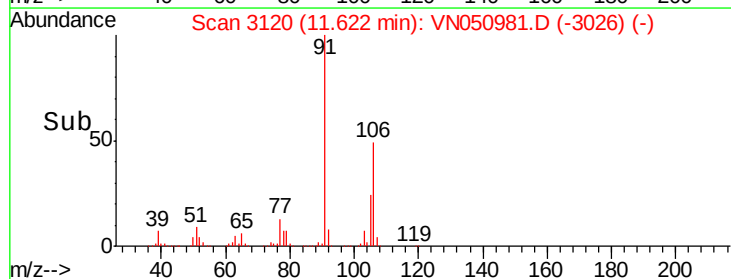
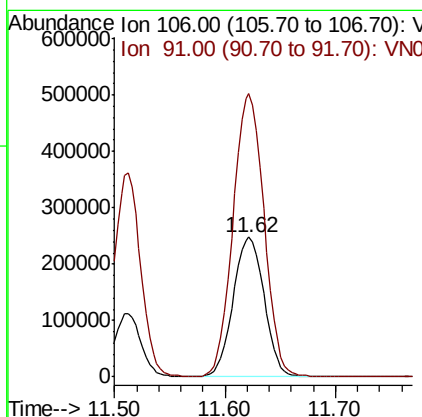
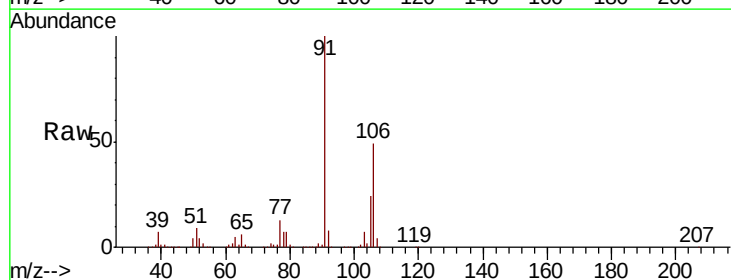
Manual Integrations
APPROVED

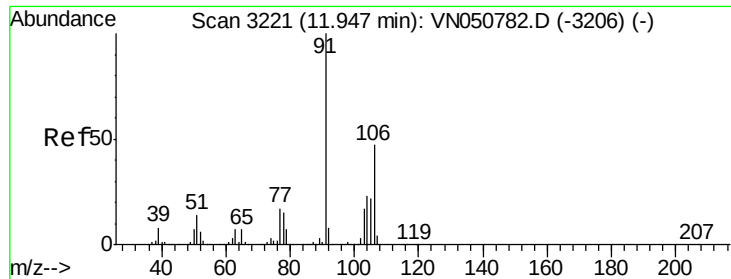
MMDadoda
9/4/2018 12:27:54 PM



#68
m/p-Xylenes
Concen: 41.24 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion: 106 Resp: 484715
Ion Ratio Lower Upper
106 100
91 201.7 161.0 241.6





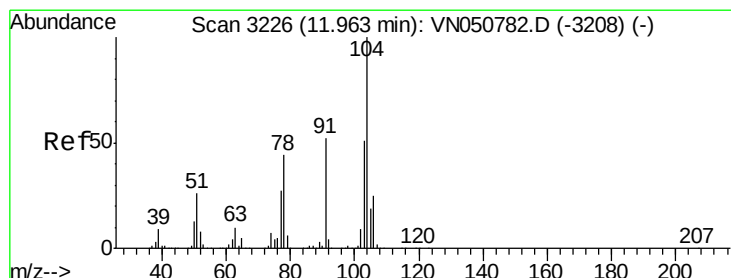
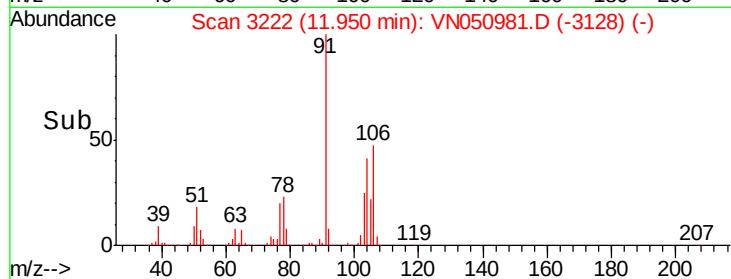
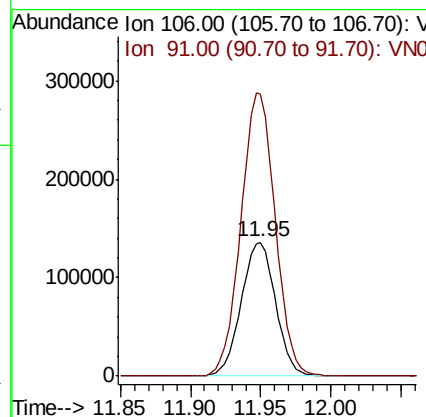
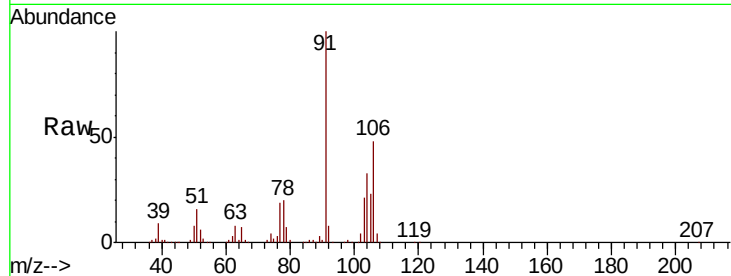
#69
o-Xylene
Concen: 20.51 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	231713		
91	211.8	106.5	319.5	

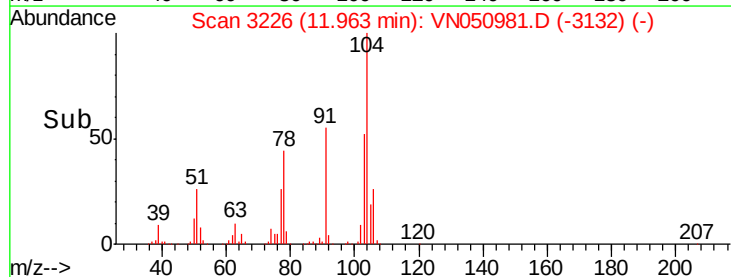
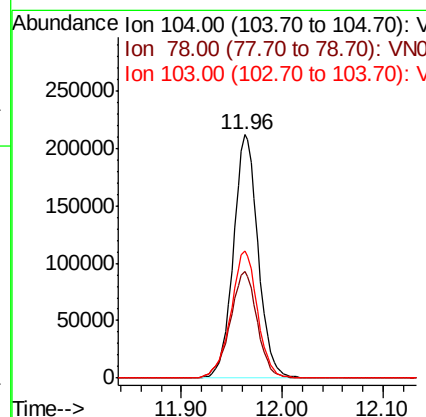
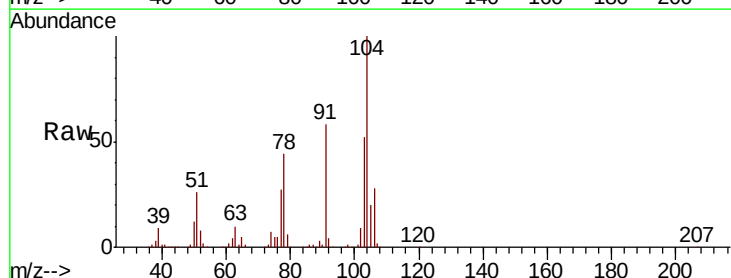
Manual Integrations
APPROVED

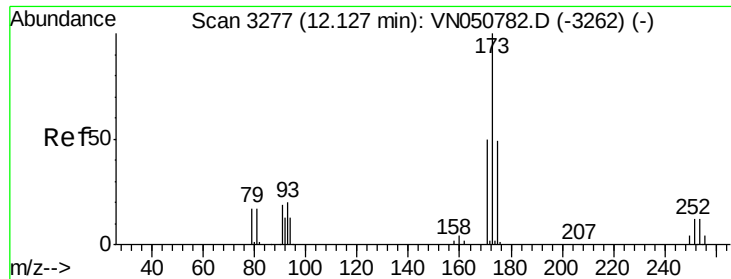
MMDadoda
9/4/2018 12:27:54 PM



#70
Styrene
Concen: 18.95 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	361344		
78	48.1	38.2	57.4	
103	56.3	44.4	66.6	





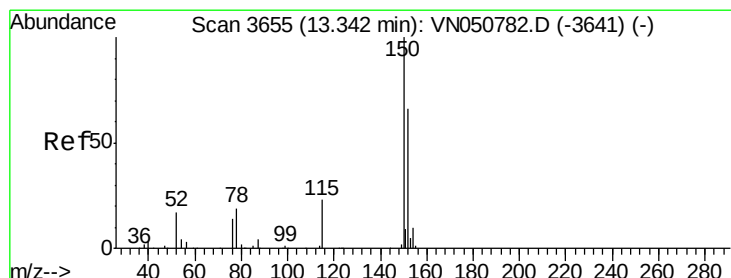
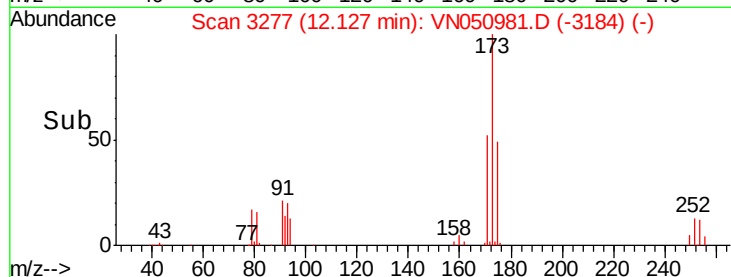
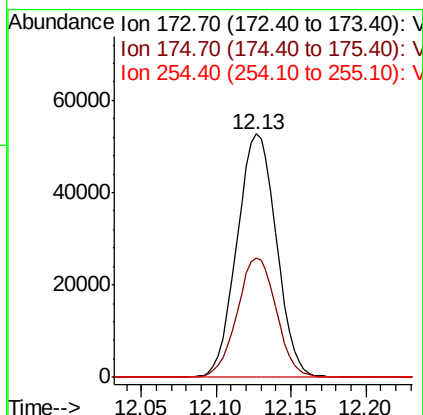
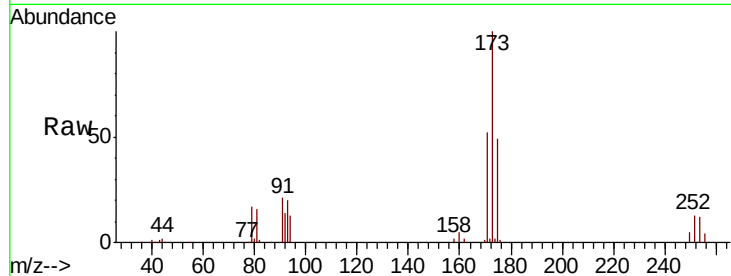
#71
Bromoform
Concen: 20.21 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.4	73.4
254	0.0	0.1	0.1#

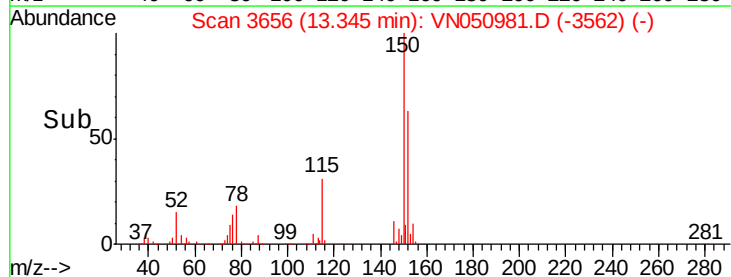
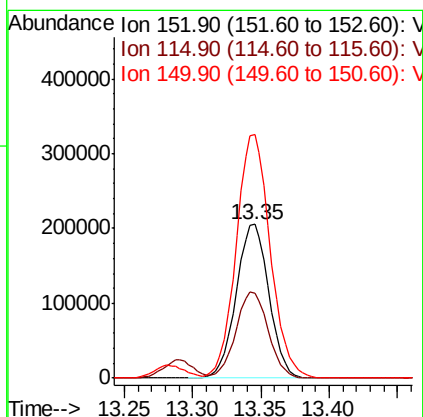
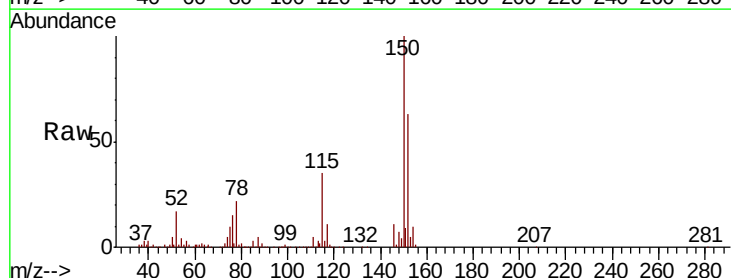
Manual Integrations
APPROVED

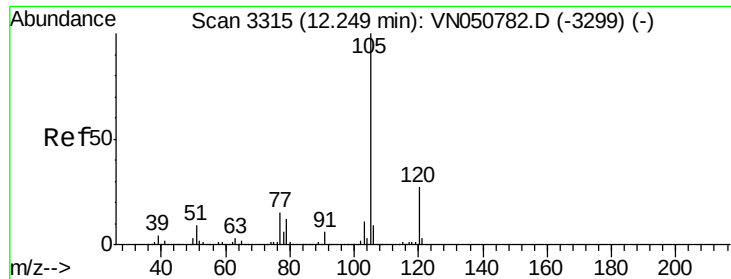
MMDadoda
9/4/2018 12:27:54 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	27.8	83.4
150	164.7	0.0	351.4





#73

Isopropylbenzene

Concen: 21.67 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion:105 Resp: 612456

Ion Ratio Lower Upper

105 100

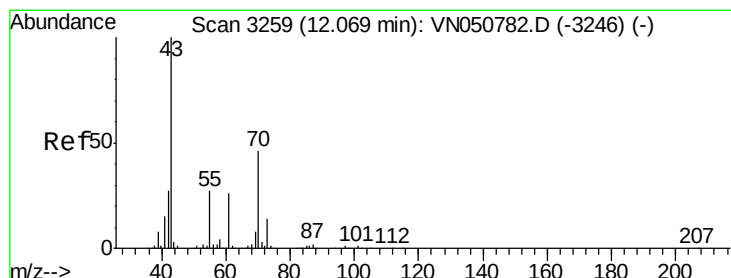
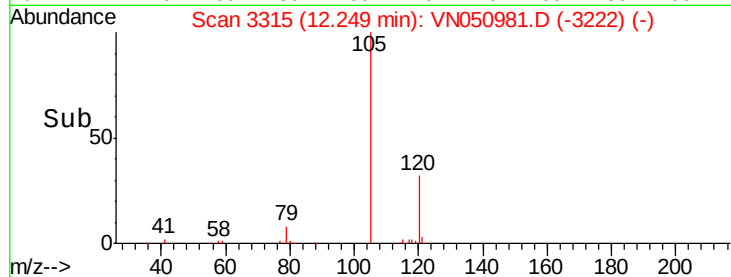
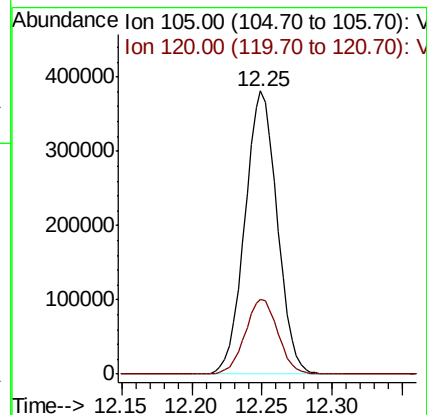
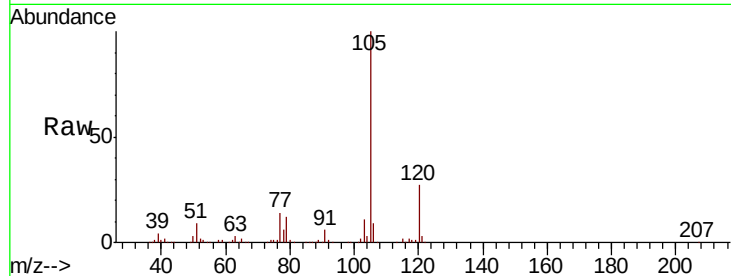
120 26.8 13.5 40.4

Manual Integrations

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MMDadoda

9/4/2018 12:27:54 PM



#74

N-ethyl acetate

Concen: 19.10 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion: 43 Resp: 135670

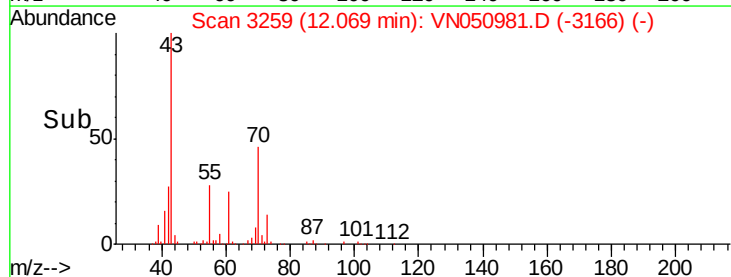
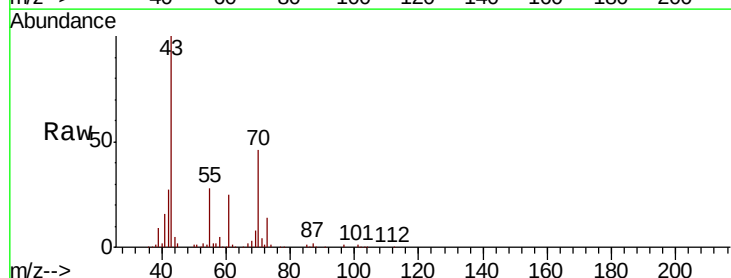
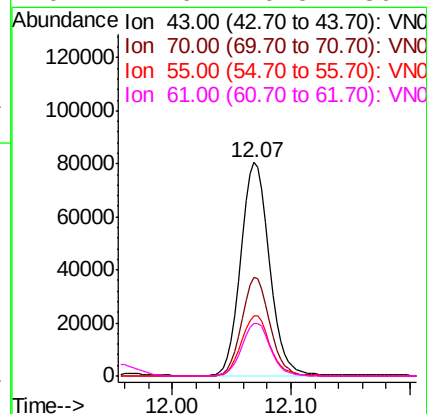
Ion Ratio Lower Upper

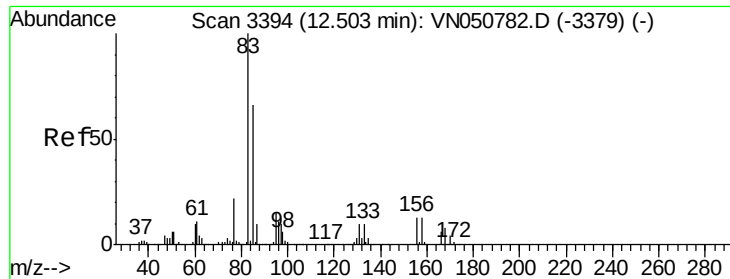
43 100

70 44.8 36.2 54.2

55 28.1 21.8 32.8

61 24.6 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 22.15 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

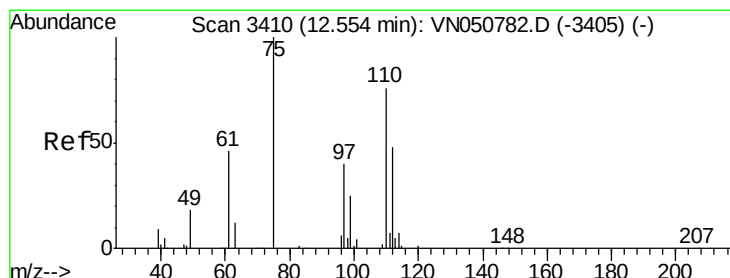
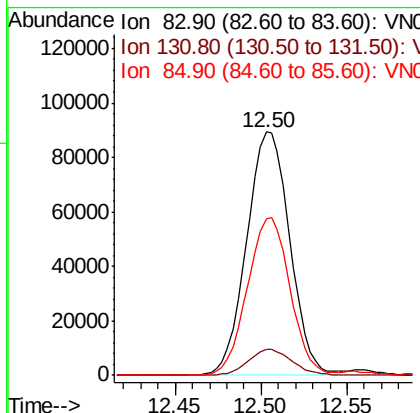
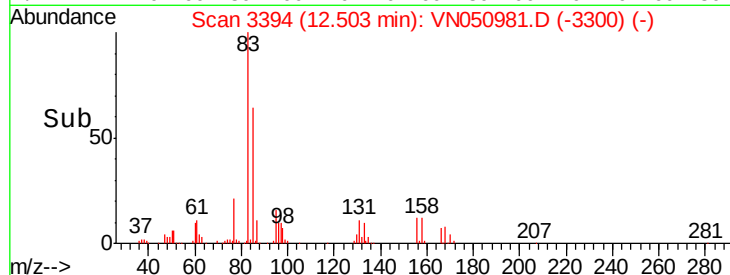
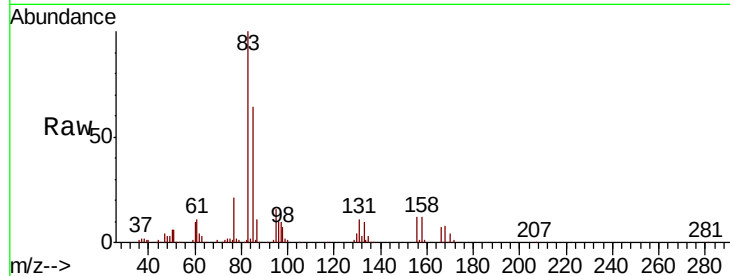
ClientSampleId :

VN0831WBSD01

Tot Ion:	83	Resp:	155394
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.3	15.9
85	64.0	31.9	95.7

Manual Integrations
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9/4/2018 12:27:54 PM



#76

1,2,3-Trichloropropane

Concen: 21.01 ug/l m

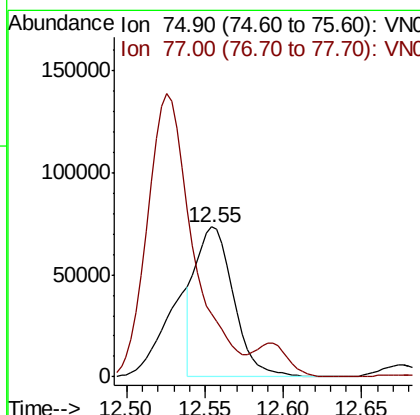
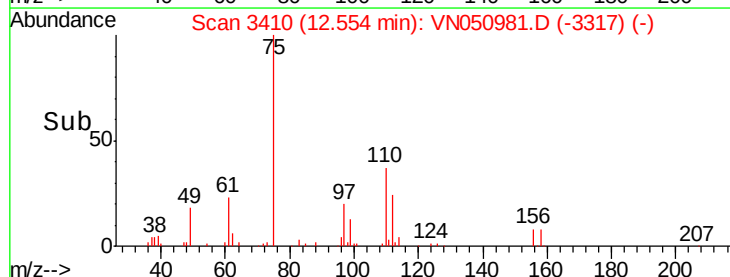
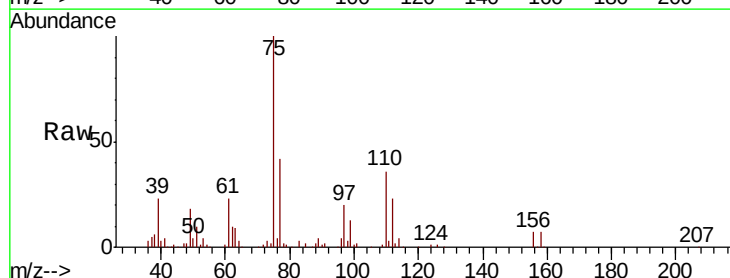
RT: 12.55 min Scan# 3410

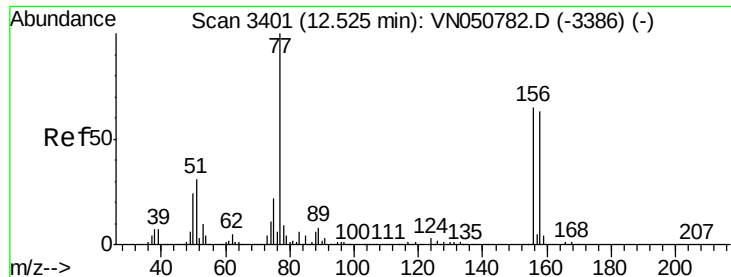
Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion:	75	Resp:	125601
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.99 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

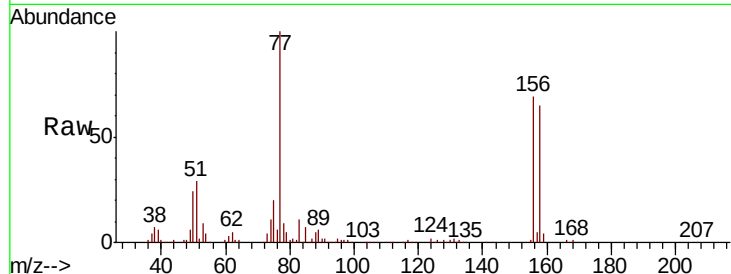
ClientSampled :

VN0831WBSD01

Tot Ion:	156	Resp:	161231
Ion Ratio	Lower	Upper	
156	100		
77	174.1	89.9	269.7
158	96.8	49.3	147.9

Manual Integrations
APPROVED

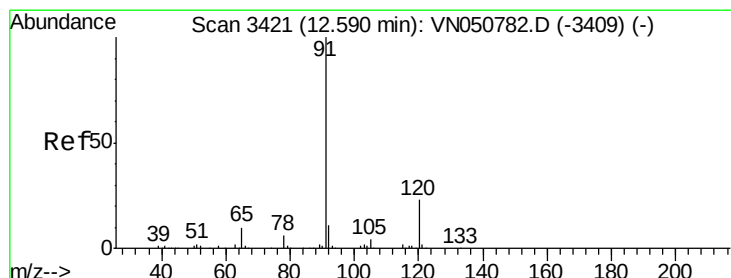
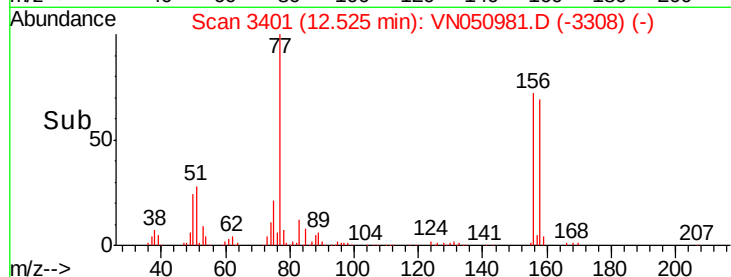
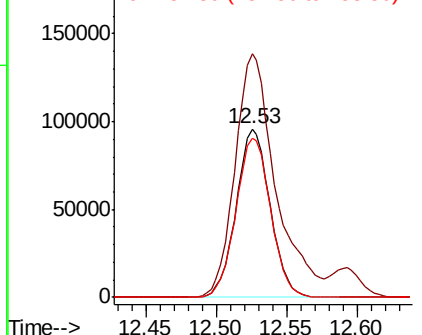
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.30 ug/l

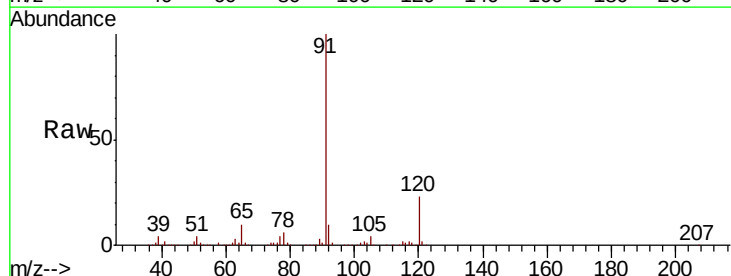
RT: 12.59 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN050981.D

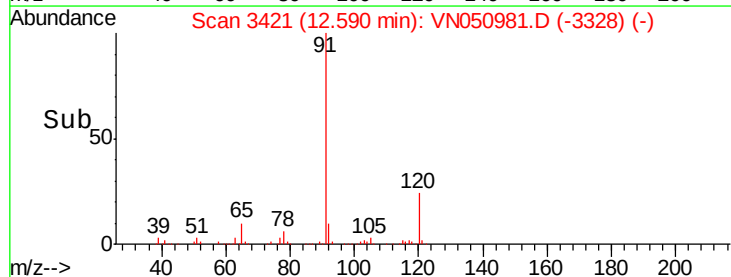
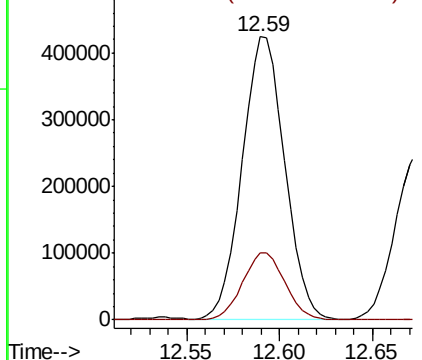
Acq: 31 Aug 2018 12:22

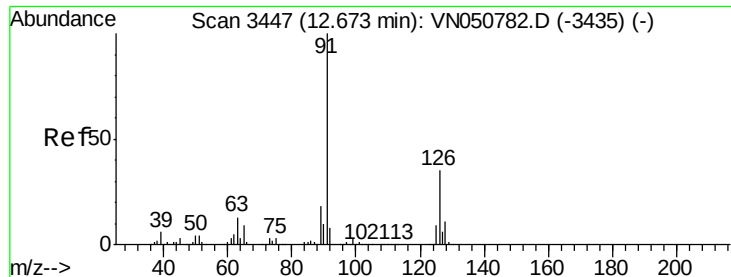
Tgt Ion:	91	Resp:	672582
Ion Ratio	Lower	Upper	
91	100		
120	23.8	11.7	35.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





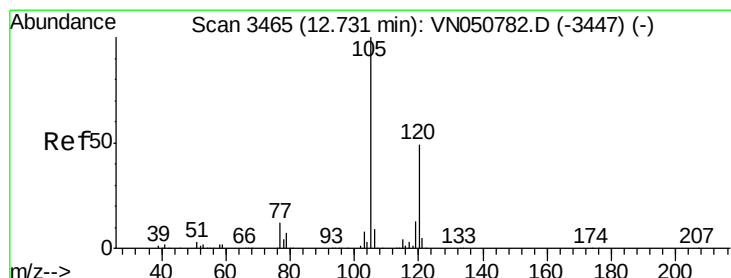
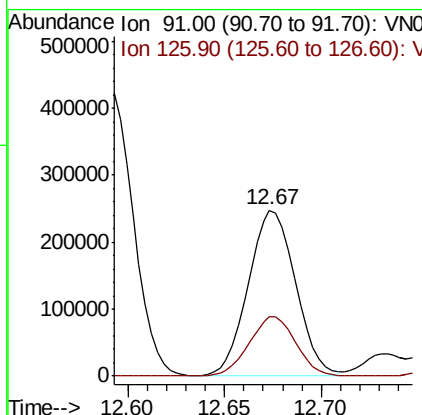
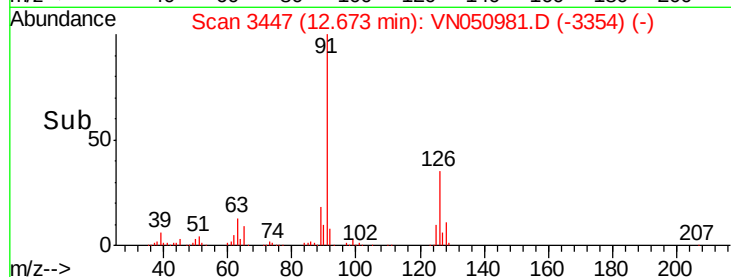
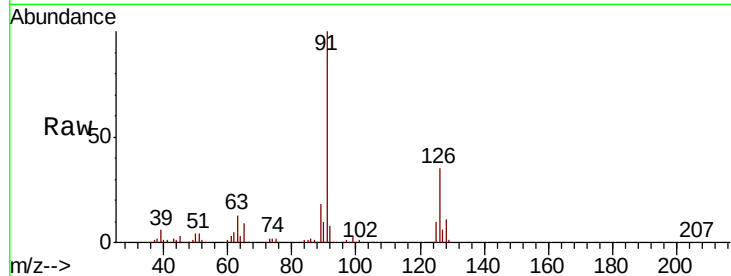
#79
 2-Chlorotoluene
 Concen: 21.29 ug/l
 RT: 12.67 min Scan# 3447
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBSD01

Tot Ion: 91 Resp: 418822
 Ion Ratio Lower Upper
 91 100
 126 35.6 17.8 53.3

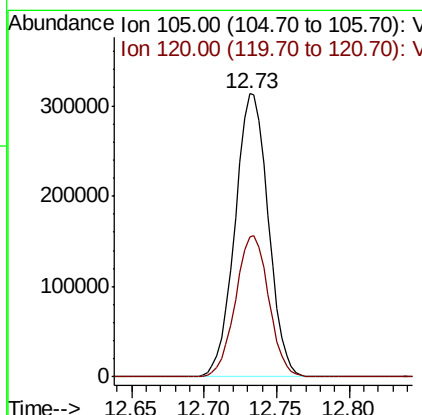
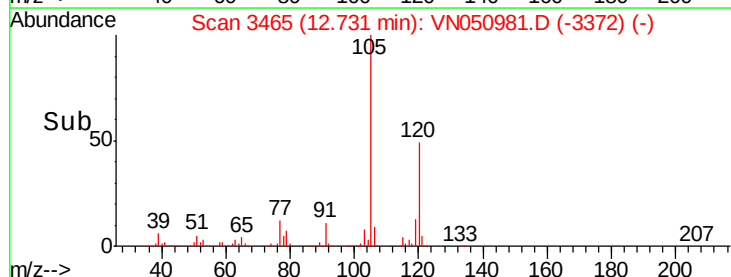
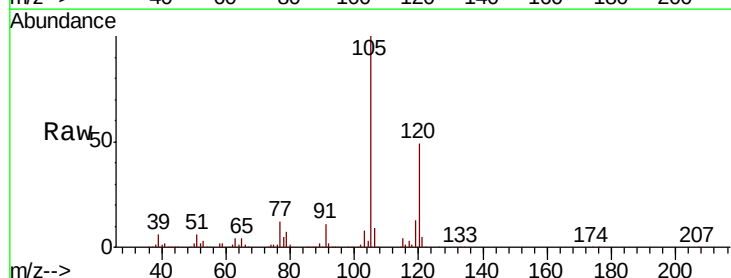
Manual Integrations
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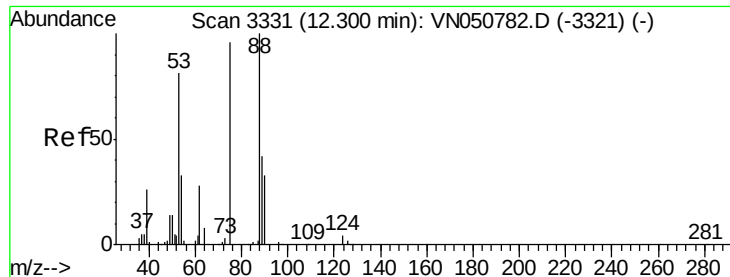
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#80
 1,3,5-Trimethylbenzene
 Concen: 21.83 ug/l
 RT: 12.73 min Scan# 3465
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion: 105 Resp: 497854
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.94 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion: 75 Resp: 33498

Ion Ratio Lower Upper

75 100

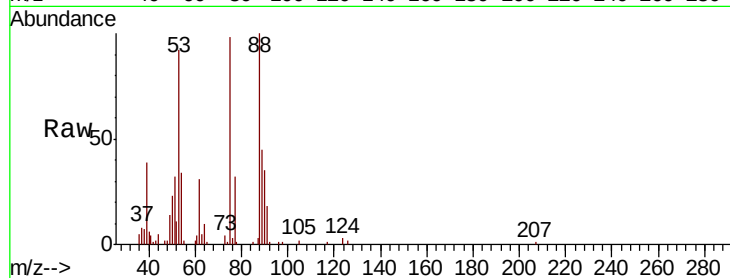
53 91.2 68.9 103.3

89 47.7 36.1 54.1

Manual Integrations
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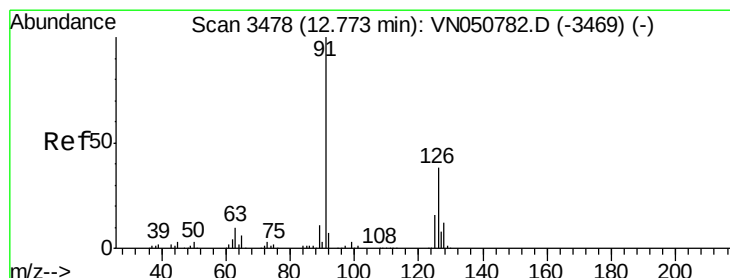
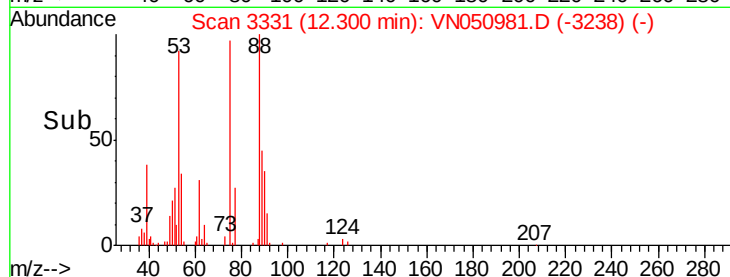
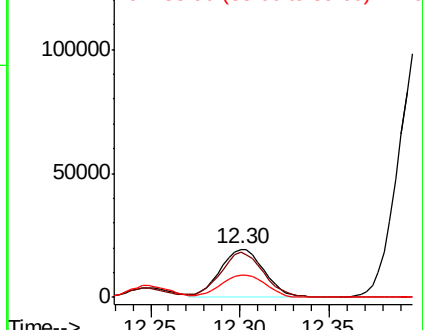
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 20.84 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050981.D

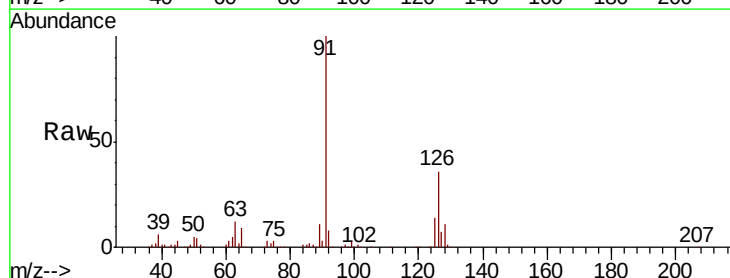
Acq: 31 Aug 2018 12:22

Tgt Ion: 91 Resp: 404698

Ion Ratio Lower Upper

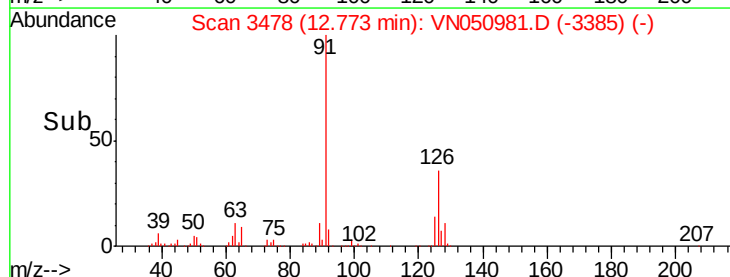
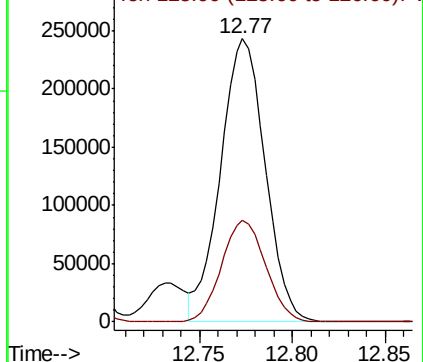
91 100

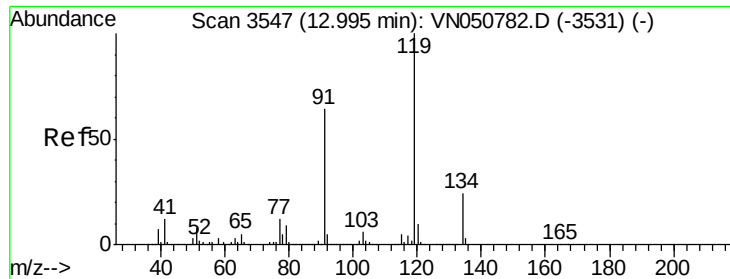
126 35.7 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





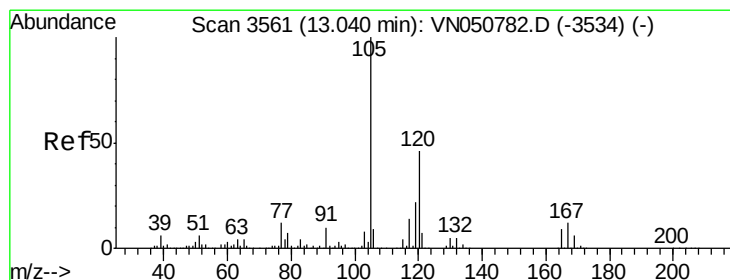
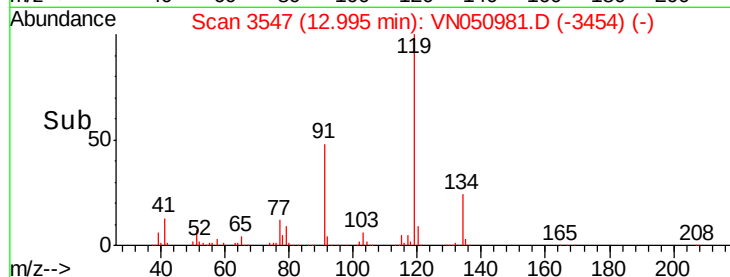
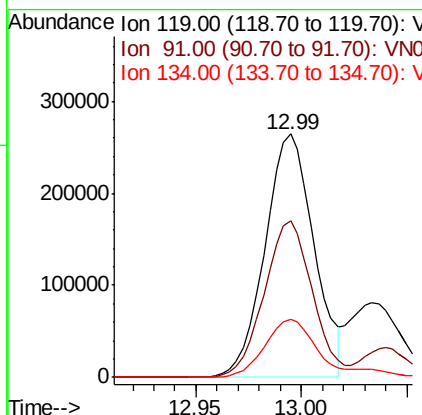
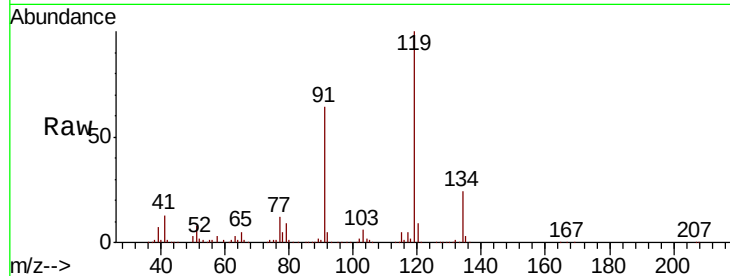
#83
 tert-Butylbenzene
 Concen: 21.65 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	427680		
91	62.9		31.6	94.7
134	24.7		13.4	40.1

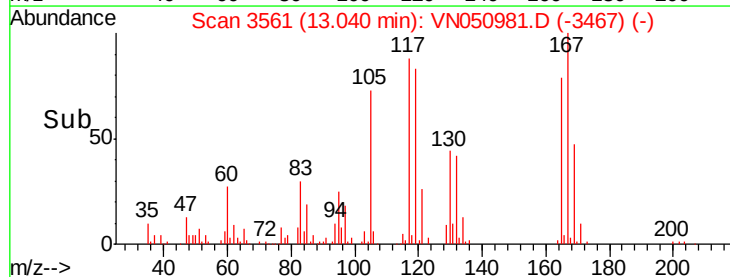
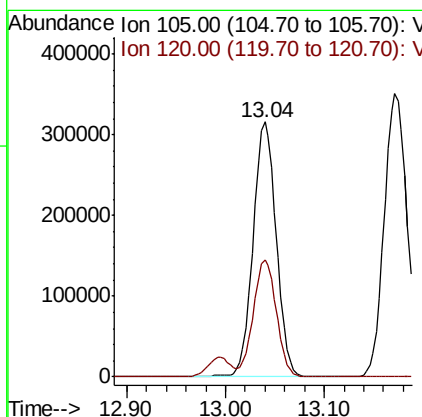
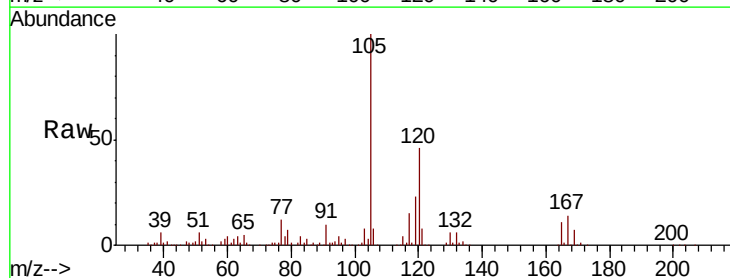
Manual Integrations
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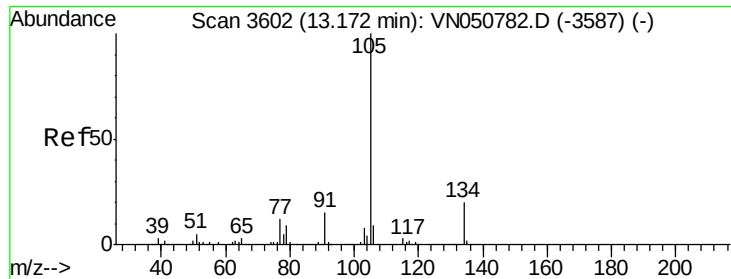
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.18 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	508913		
120	45.9		22.9	68.8





#85

sec-Butylbenzene

Concen: 21.74 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBSD01

Tot Ion:105 Resp: 562705

Ion Ratio Lower Upper

105 100

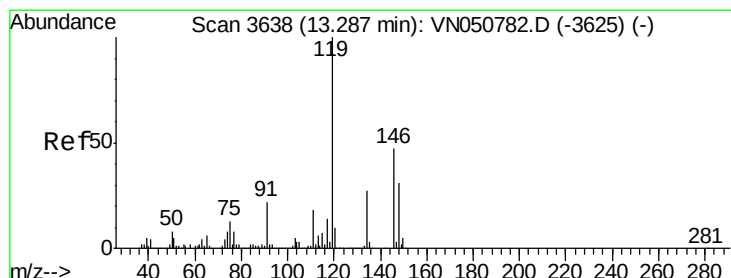
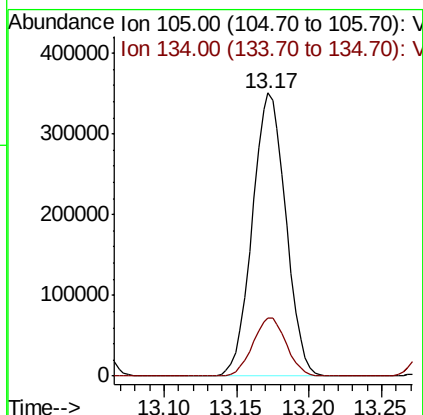
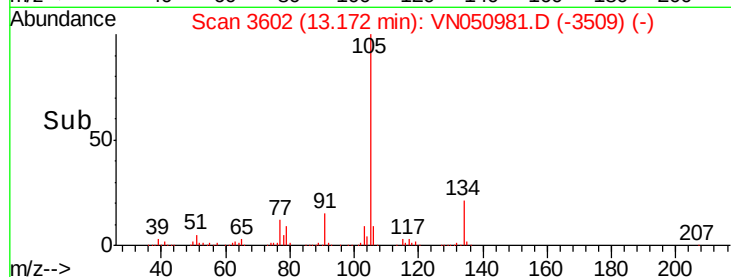
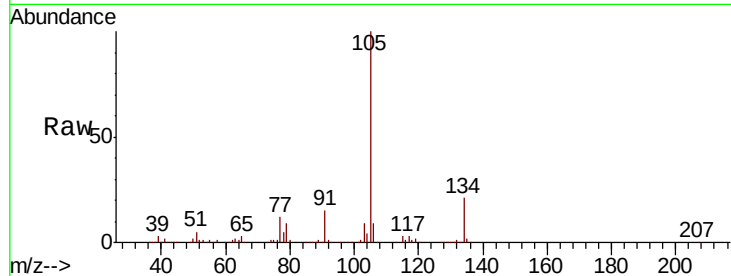
134 20.6 10.3 30.8

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.62 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

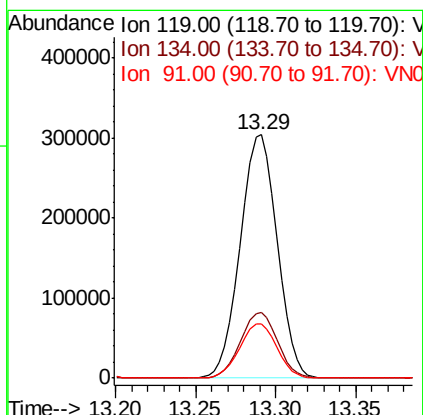
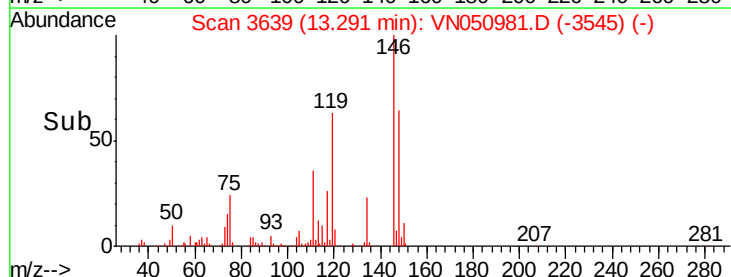
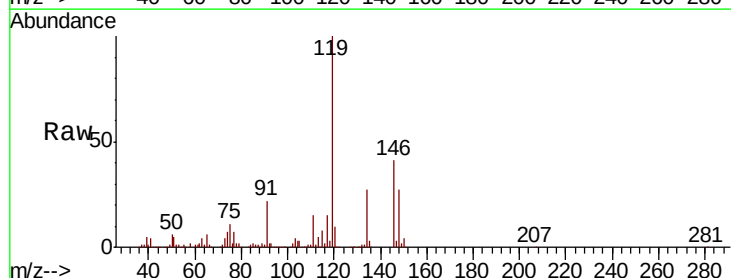
Tgt Ion:119 Resp: 476757

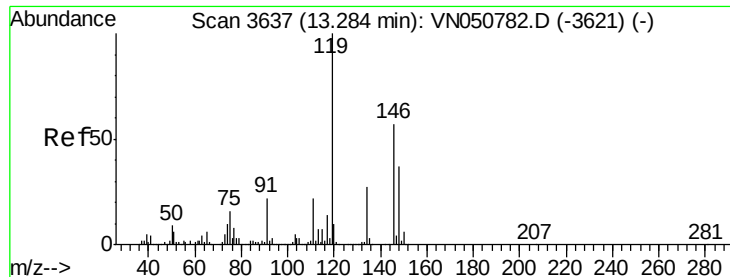
Ion Ratio Lower Upper

119 100

134 26.9 13.7 41.0

91 22.5 11.2 33.5





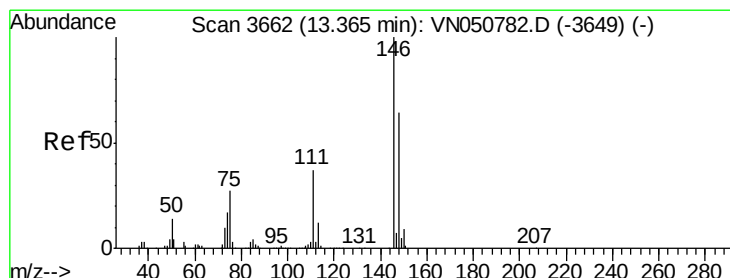
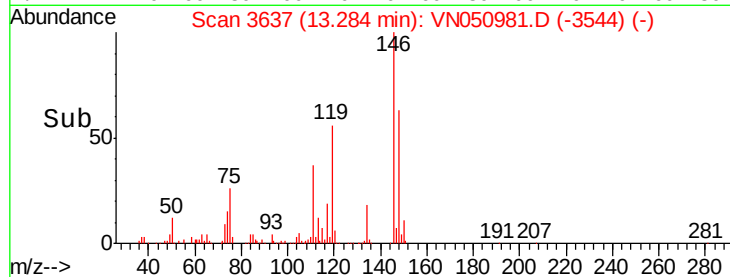
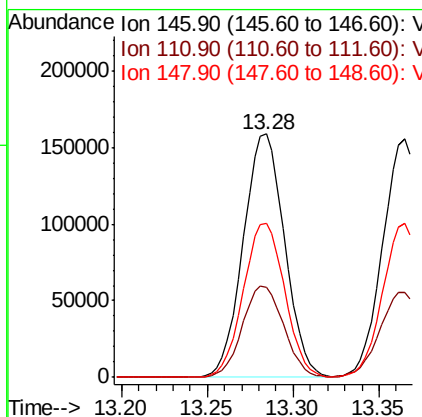
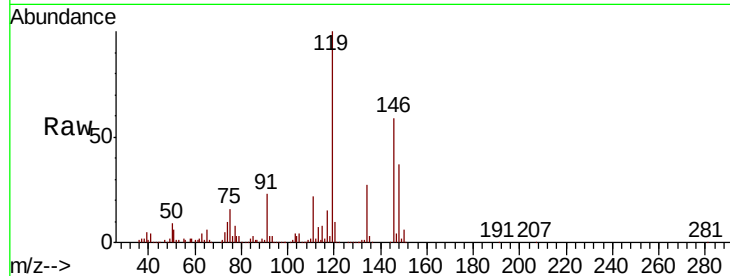
#87
 1,3-Dichlorobenzene
 Concen: 20.34 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.4	19.1	57.3
148	63.1	32.2	96.6

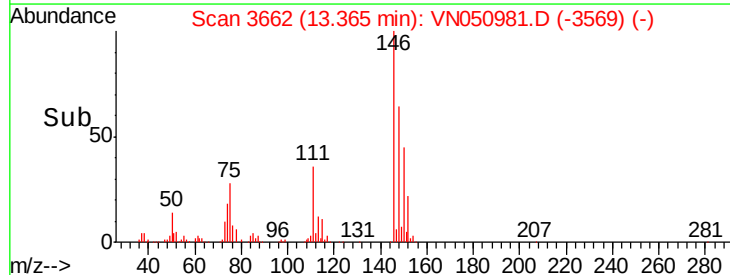
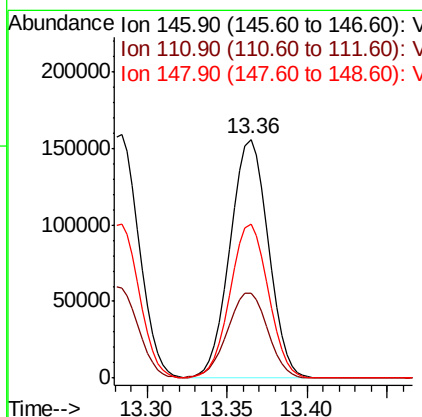
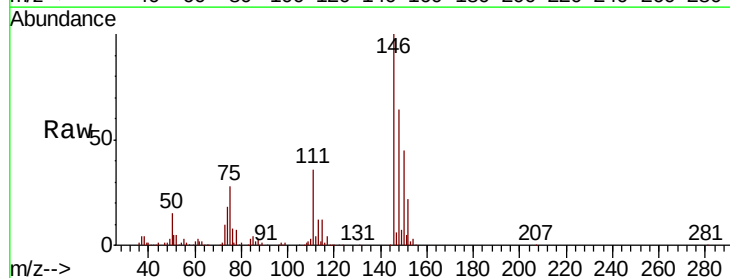
Manual Integrations
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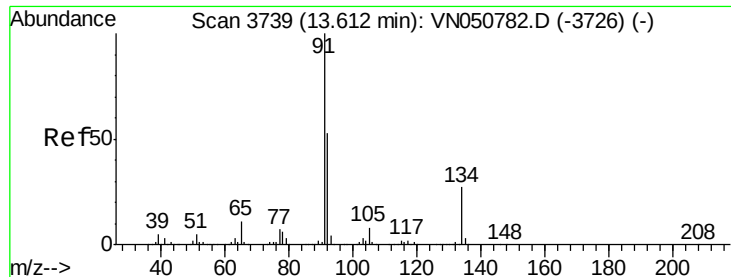
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 9/4/2018 12:27:54 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.84 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.8	56.3
148	64.5	32.2	96.6





#89

n-Butylbenzene

Concen: 19.58 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Instrument :

MSVOA_N

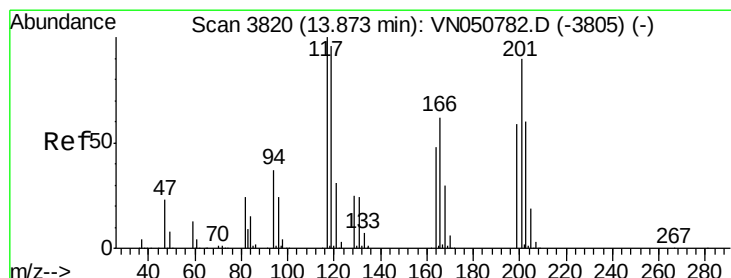
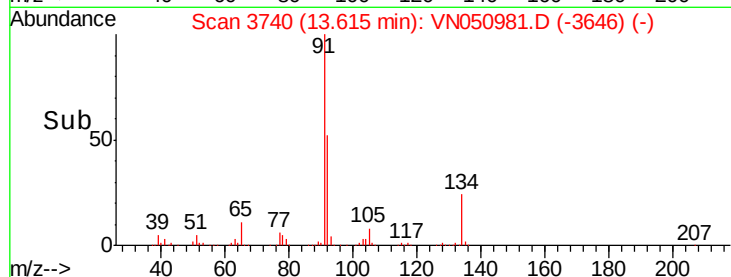
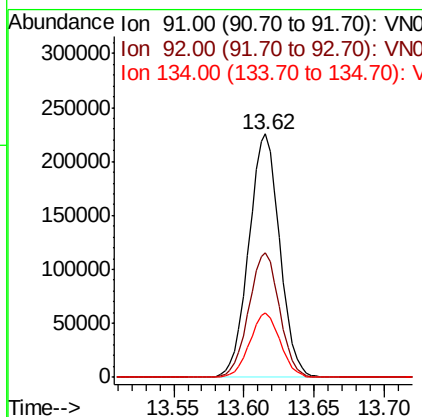
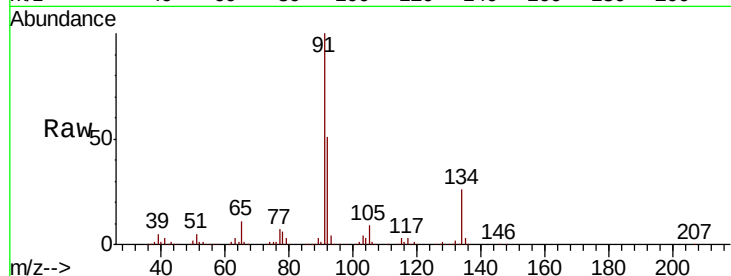
ClientSampleId :

VN0831WBSD01

Tot Ion:	91	Resp:	345351
Ion	Ratio	Lower	Upper
91	100		
92	51.0	26.1	78.2
134	26.1	13.2	39.6

Manual Integrations
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#90

Hexachloroethane

Concen: 21.93 ug/l

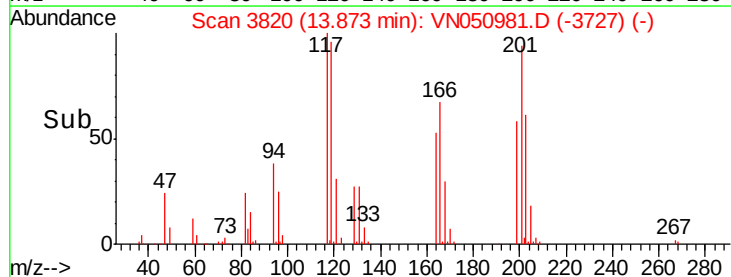
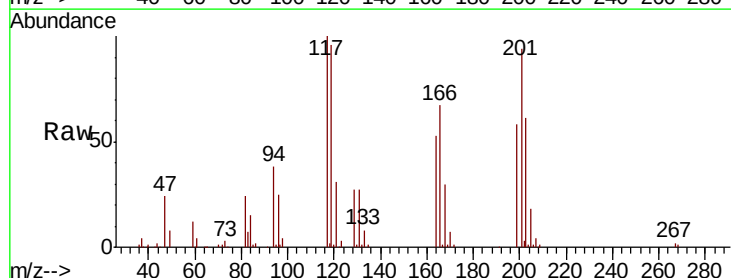
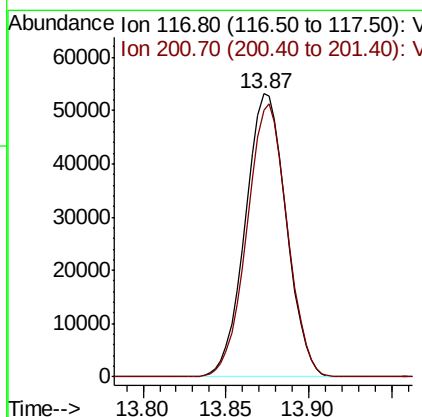
RT: 13.87 min Scan# 3820

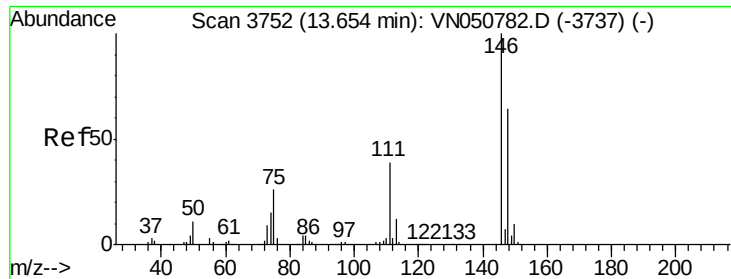
Delta R.T. 0.00 min

Lab File: VN050981.D

Acq: 31 Aug 2018 12:22

Tgt Ion:	117	Resp:	91736
Ion	Ratio	Lower	Upper
117	100		
201	94.4	46.0	137.8





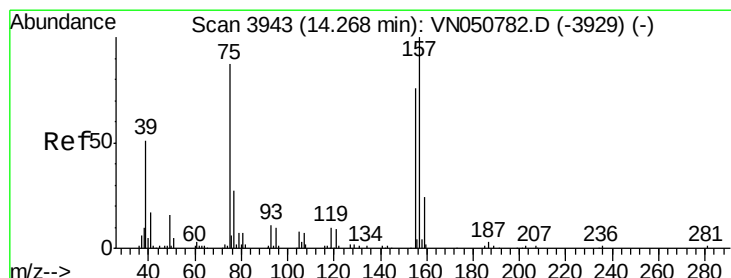
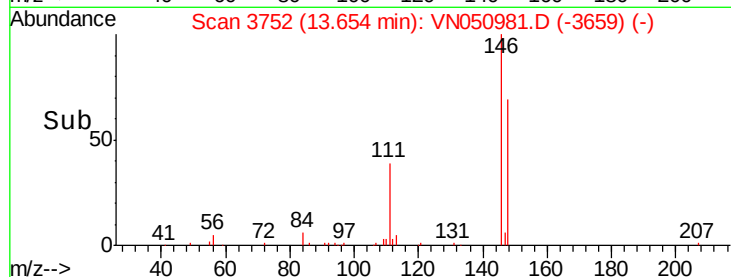
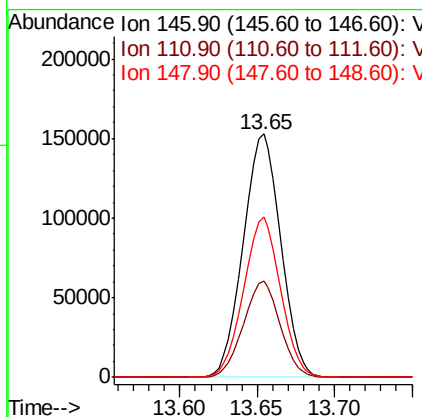
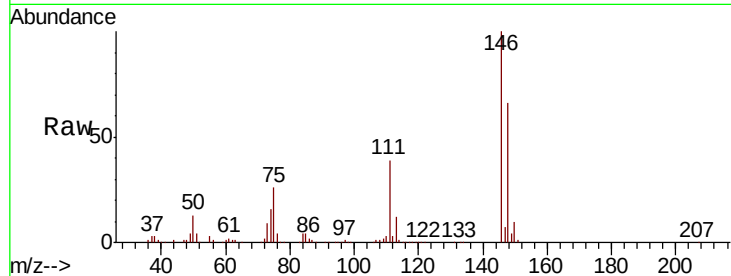
#91
 1,2-Dichlorobenzene
 Concen: 20.60 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.8	59.3
148	64.4	32.3	96.8

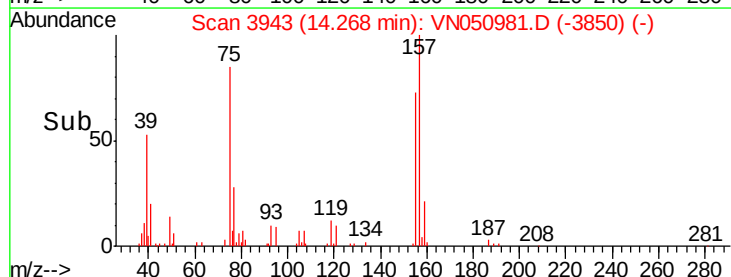
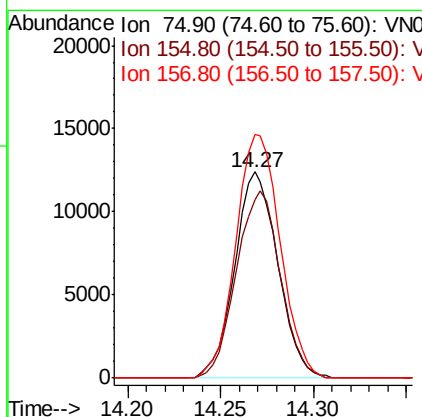
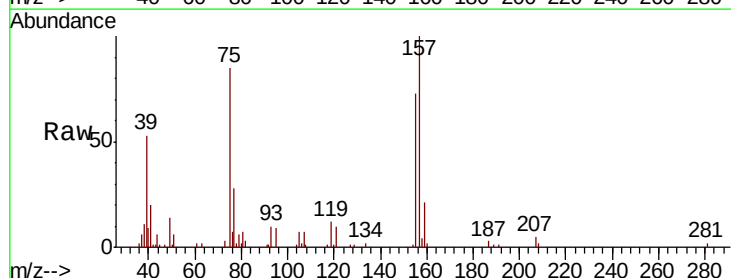
Manual Integrations
 APPROVED

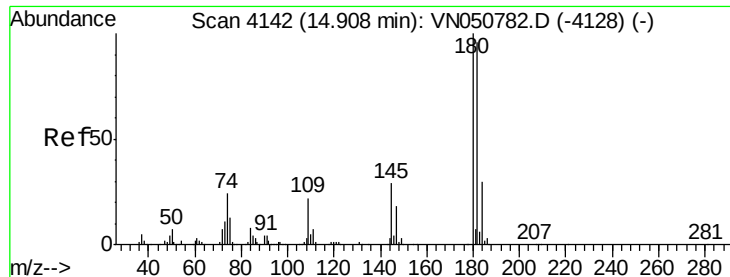
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.78 ug/l
 RT: 14.27 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.7	46.4	139.1
157	122.1	60.7	182.0





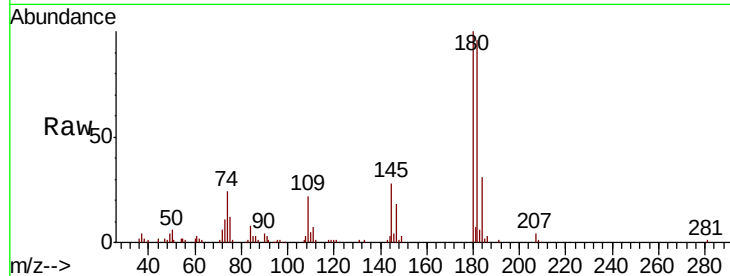
#93
 1,2,4-Trichlorobenzene
 Concen: 17.47 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBSD01

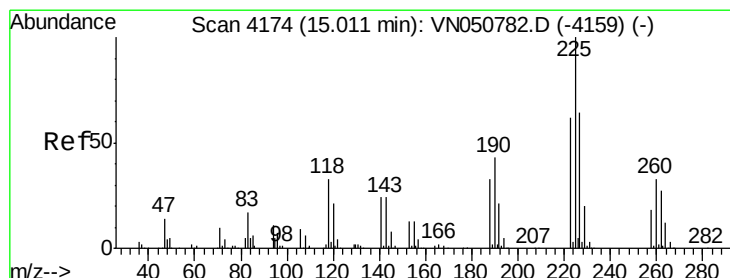
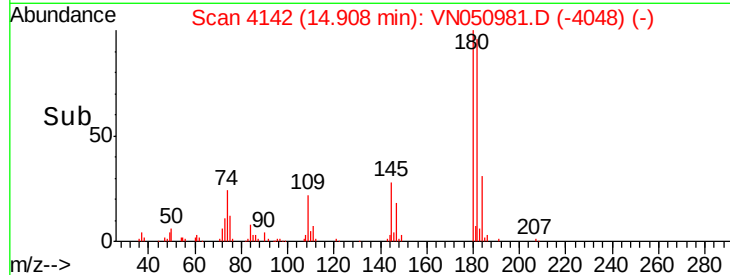
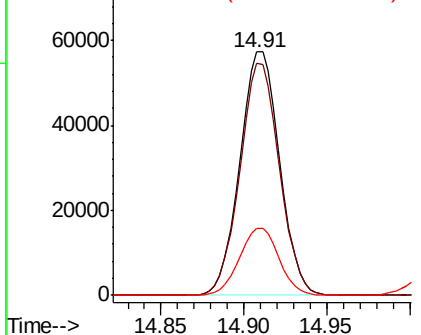
Tot Ion:	180	Resp:	95342
Ion Ratio	Lower	Upper	
180	100		
182	94.7	48.2	144.6
145	27.6	14.1	42.2

Manual Integrations
 APPROVED

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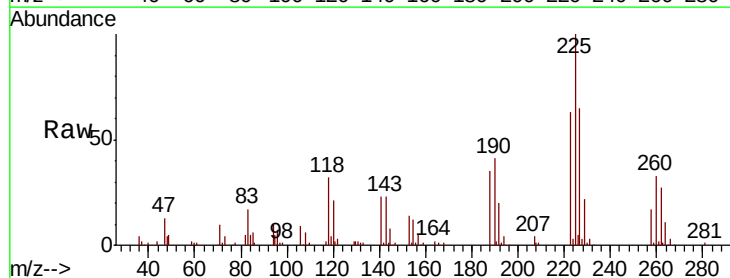


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

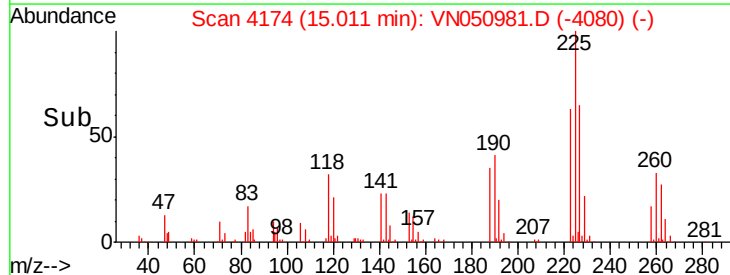
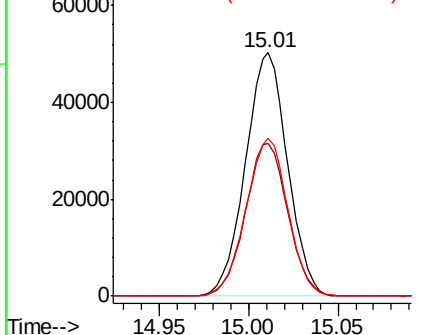


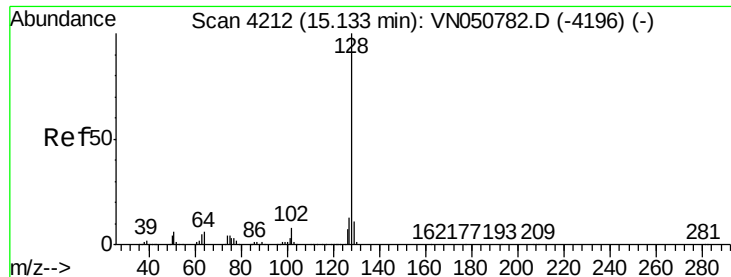
#94
 Hexachlorobutadiene
 Concen: 21.55 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050981.D
 Acq: 31 Aug 2018 12:22

Tgt Ion:	225	Resp:	82730
Ion Ratio	Lower	Upper	
225	100		
223	63.3	31.3	93.8
227	64.3	32.0	96.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





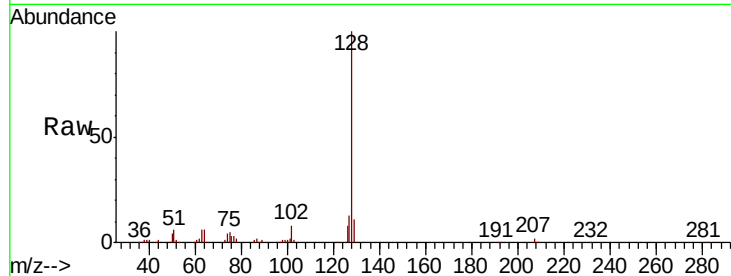
#95
Naphthalene
Concen: 16.55 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Instrument :
MSVOA_N
ClientSampled :
VN0831WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.5	15.7
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
9/4/2018 12:27:54 PM

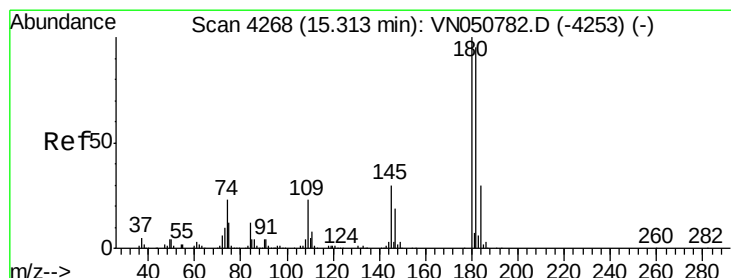
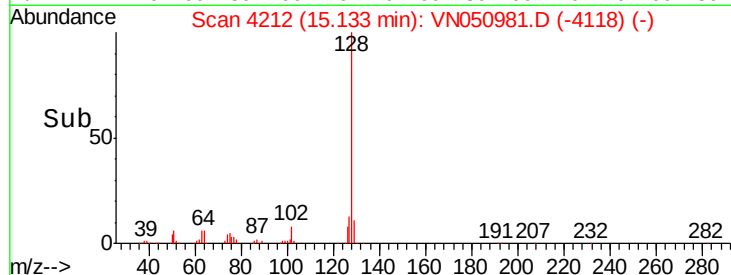
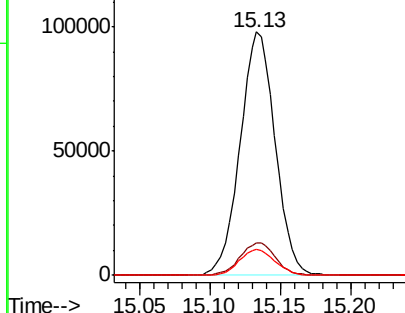


Abundance

Ion 128.00 (127.70 to 128.70): V

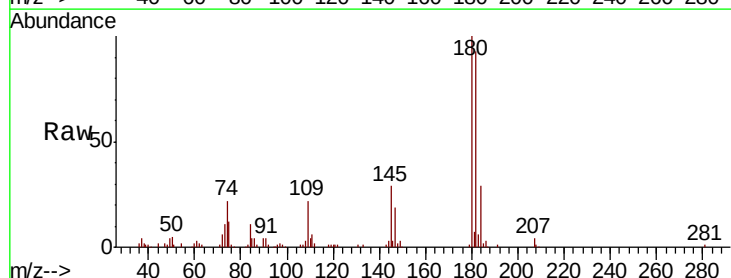
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 18.51 ug/l
RT: 15.31 min Scan# 4268
Delta R.T. 0.00 min
Lab File: VN050981.D
Acq: 31 Aug 2018 12:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.2
145	30.0	15.2	45.6



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

