

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091018\
 Data File : VN051066.D
 Acq On : 10 Sep 2018 8:58
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 9/11/2018 9:40:15 AM

Quant Time: Sep 11 02:09:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 01:47:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	695254	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	995320	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	880611	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	421161	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	145716	18.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.66%	
35) Dibromofluoromethane	7.59	113	144407	19.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.62%	
50) Toluene-d8	10.09	98	532914	18.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.56%	
62) 4-Bromofluorobenzene	12.40	95	169866	18.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	36.18%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.85	85	126231	18.83	ug/l	99
3) Chloromethane	2.06	50	176760	18.52	ug/l	99
4) Vinyl Chloride	2.18	62	176363	19.16	ug/l	99
5) Bromomethane	2.56	94	101669	16.49	ug/l	100
6) Chloroethane	2.70	64	106733	18.79	ug/l	99
7) Trichlorofluoromethane	3.01	101	234246	19.21	ug/l	99
8) Diethyl Ether	3.41	74	88815	19.80	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	151113	19.22	ug/l	99
10) Methyl Iodide	3.95	142	112607	16.77	ug/l	99
11) Tert butyl alcohol	4.79	59	59997	101.52	ug/l #	84
12) 1,1-Dichloroethene	3.73	96	139817	18.85	ug/l	97
13) Acrolein	3.61	56	74509	110.52	ug/l	99
14) Allyl chloride	4.32	41	219061	19.39	ug/l	100
15) Acrylonitrile	4.99	53	262967	100.42	ug/l	100
16) Acetone	3.82	43	214466	99.77	ug/l	99
17) Carbon Disulfide	4.05	76	424293	17.39	ug/l	99
18) Methyl Acetate	4.33	43	116659	18.83	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	387745	21.77	ug/l	99
20) Methylene Chloride	4.55	84	161949	18.95	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	150596	18.72	ug/l	98
22) Diisopropyl ether	5.95	45	463447	20.66	ug/l	99
23) Vinyl Acetate	5.90	43	1524570	100.44	ug/l	99
24) 1,1-Dichloroethane	5.85	63	276266	19.41	ug/l	99
25) 2-Butanone	6.84	43	304435	100.08	ug/l	99
26) 2,2-Dichloropropane	6.82	77	222517	19.10	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	168421	19.09	ug/l	99
28) Bromochloromethane	7.19	49	125056	19.74	ug/l	100
29) Tetrahydrofuran	7.21	42	196112	103.24	ug/l	99
30) Chloroform	7.37	83	277024	19.57	ug/l	99
31) Cyclohexane	7.65	56	249987	17.37	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	237439	19.68	ug/l	99
36) 1,1-Dichloropropene	7.79	75	208940	19.12	ug/l	98
37) Ethyl Acetate	6.93	43	130670	20.65	ug/l	99
38) Carbon Tetrachloride	7.77	117	209126	19.44	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	231849	19.23	ug/l	99
40) Benzene	8.04	78	650081	19.74	ug/l	99
41) Methacrylonitrile	7.18	41	63836	19.55	ug/l	97
42) 1,2-Dichloroethane	8.13	62	188855	19.68	ug/l	100
43) Isopropyl Acetate	8.17	43	228851	20.49	ug/l	99
44) Trichloroethene	8.83	130	173076	19.22	ug/l	100
45) 1,2-Dichloropropane	9.12	63	168332	19.78	ug/l	100
46) Dibromomethane	9.21	93	102223	19.69	ug/l	98
47) Bromodichloromethane	9.40	83	208443	19.75	ug/l	98
48) Methyl methacrylate	9.20	41	109174	20.06	ug/l	99
49) 1,4-Dioxane	9.20	88	36017	422.05	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	648990	105.09	ug/l	99
52) Toluene	10.16	92	397875	19.82	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	206036	19.50	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	243476	19.66	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	144274	19.78	ug/l	98
56) Ethyl methacrylate	10.43	69	177167	20.29	ug/l	100
57) 1,3-Dichloropropane	10.71	76	241285	19.95	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	352052	98.67	ug/l	100
59) 2-Hexanone	10.75	43	429688	102.60	ug/l	99
60) Dibromochloromethane	10.90	129	160124	19.48	ug/l	99
61) 1,2-Dibromoethane	11.01	107	140168	19.66	ug/l	99
64) Tetrachloroethene	10.63	164	157618	19.62	ug/l	98
65) Chlorobenzene	11.43	112	428695	19.31	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	158761	19.87	ug/l	99
67) Ethyl Benzene	11.51	91	711190	19.78	ug/l	100
68) m/p-Xylenes	11.62	106	556927	40.32	ug/l	99
69) o-Xylene	11.95	106	269591	20.16	ug/l	99
70) Styrene	11.96	104	426989	20.58	ug/l	100
71) Bromoform	12.13	173	112794	20.05	ug/l #	99
73) Isopropylbenzene	12.25	105	706334	20.00	ug/l	100
74) N-amyl acetate	12.07	43	176311	19.84	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	182086	19.36	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	141981m	20.27	ug/l	
77) Bromobenzene	12.53	156	179524	18.92	ug/l	99
78) n-propylbenzene	12.59	91	776211	19.99	ug/l	99
79) 2-Chlorotoluene	12.67	91	472602	19.48	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	578993	20.28	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	44283	19.97	ug/l	95
82) 4-Chlorotoluene	12.77	91	468724	19.46	ug/l	100
83) tert-Butylbenzene	12.99	119	503683	19.98	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	585001	20.84	ug/l	99
85) sec-Butylbenzene	13.17	105	648585	20.06	ug/l	100
86) p-Isopropyltoluene	13.29	119	563167	20.54	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	304681	18.93	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	288910	18.21	ug/l	98
89) n-Butylbenzene	13.61	91	410834	19.26	ug/l	98
90) Hexachloroethane	13.87	117	103039	18.39	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	300915	19.19	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	25128	18.31	ug/l	95

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ClientSampleId :
VSTDICC020

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Quant Title : SW846 8260
QLast Update : Tue Sep 11 01:47:53 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	115656	17.13	ug/l	99
94) Hexachlorobutadiene	15.01	225	96564	17.47	ug/l	99
95) Naphthalene	15.13	128	220783	15.43	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	119646	17.10	ug/l	99

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

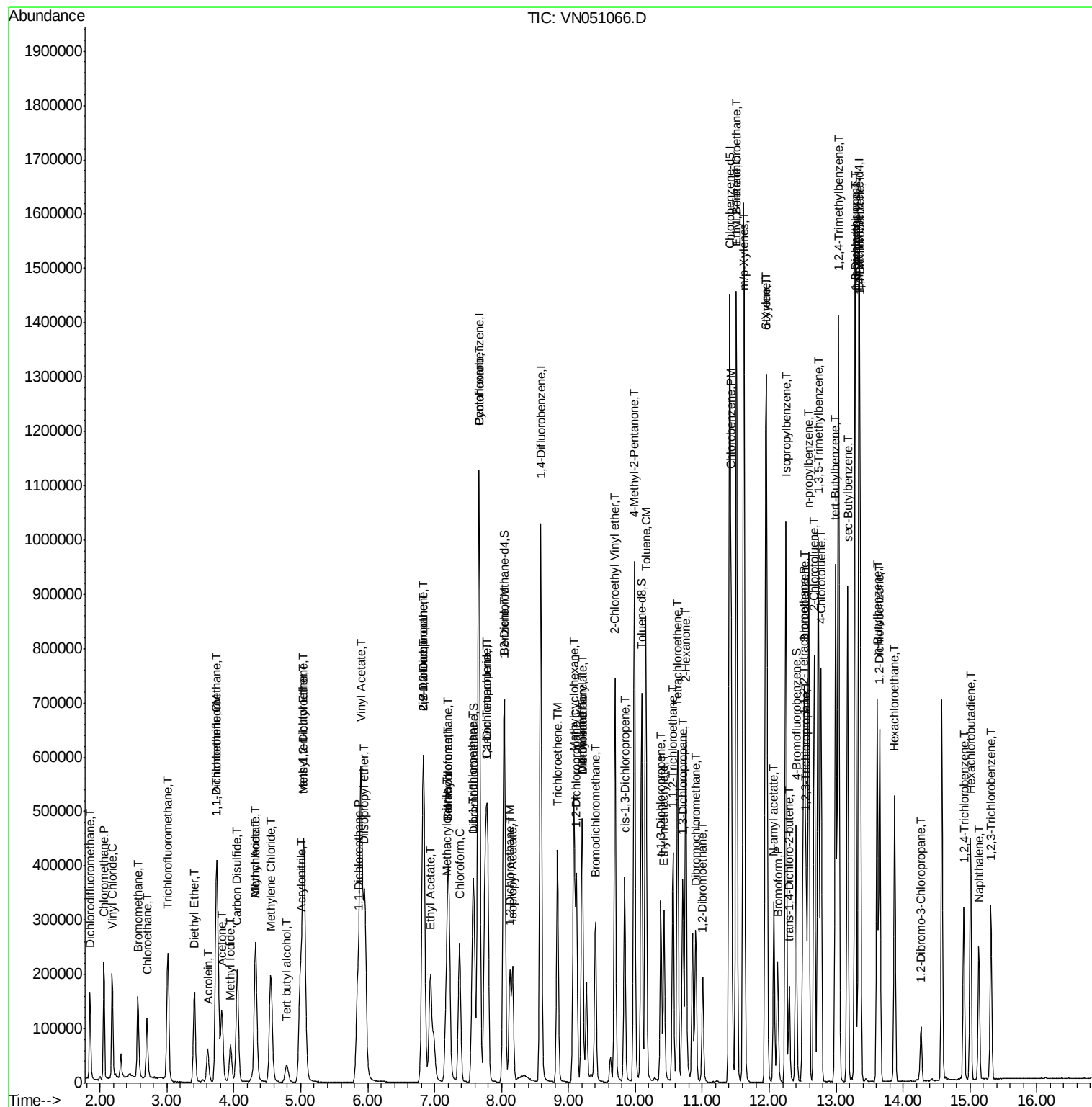
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091018\
Data File : VN051066.D
Acq On : 10 Sep 2018 8:58
Operator : MD\SY
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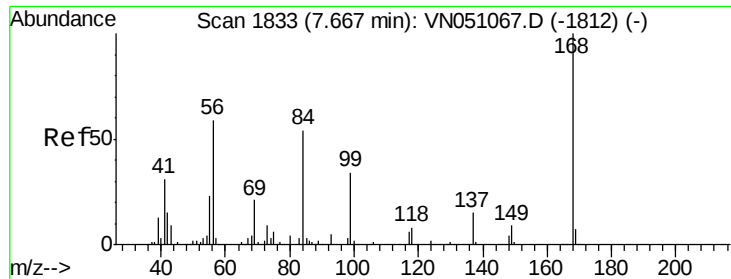
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Manual Integrations
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Quant Title : SW846 8260
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#1

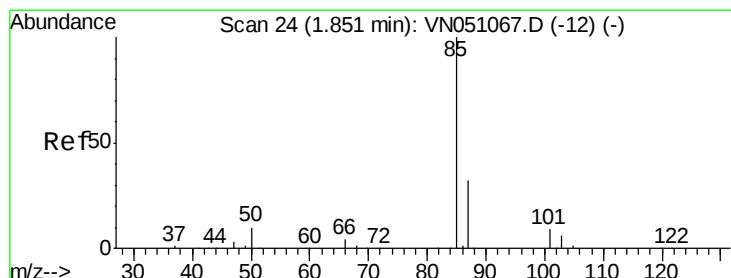
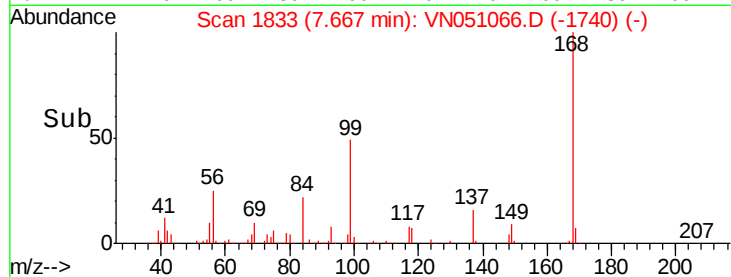
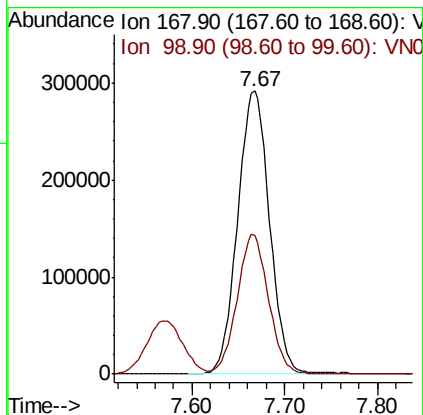
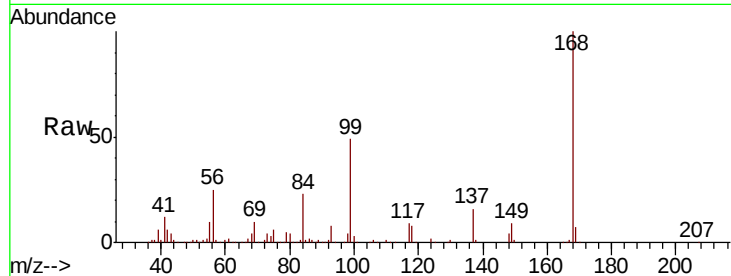
Pentafluorobenzene
 Concen: 50.00 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
168	100		
99	48.9	38.3	57.5

Manual Integrations
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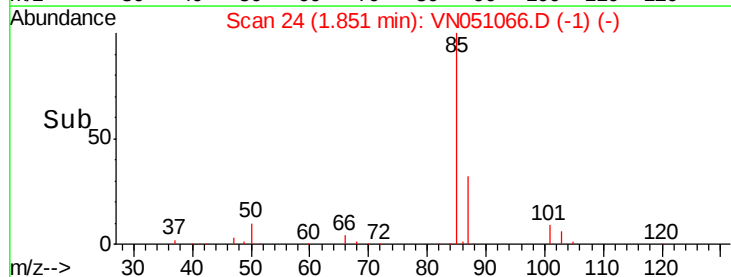
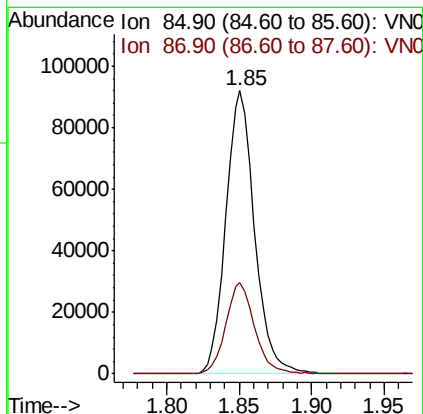
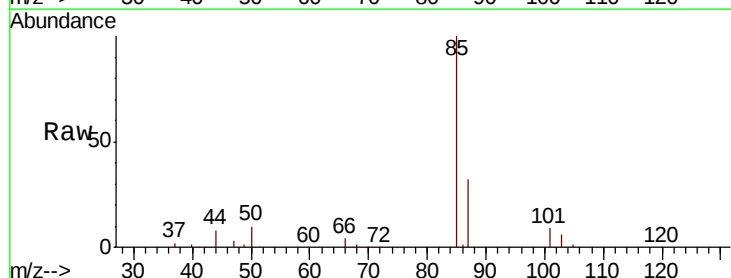
MMDadoda
 9/11/2018 9:40:15 AM

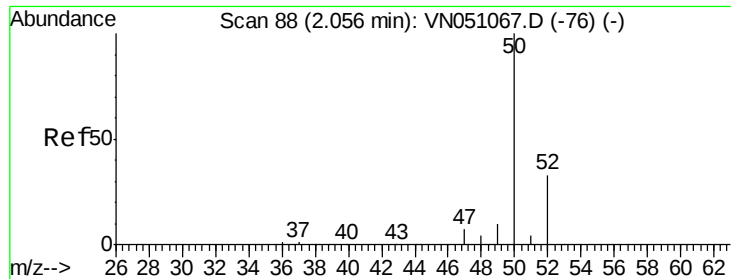


#2

Dichlorodifluoromethane
 Concen: 18.83 ug/l
 RT: 1.85 min Scan# 24
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.9	47.6





#3

Chloromethane

Concen: 18.52 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 50 Resp: 176760

Ion Ratio Lower Upper

50 100

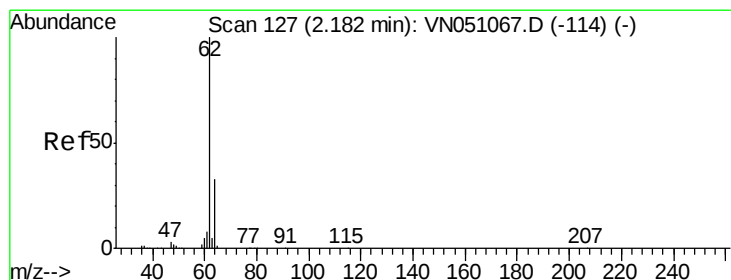
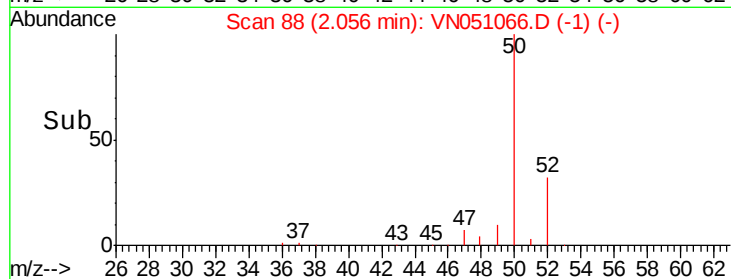
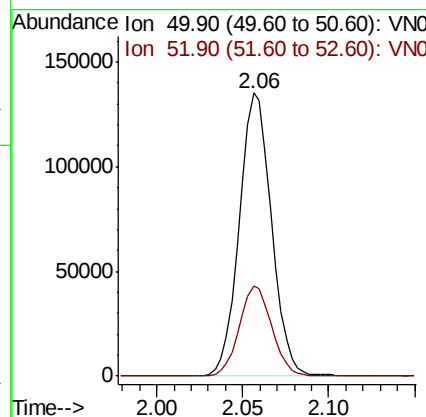
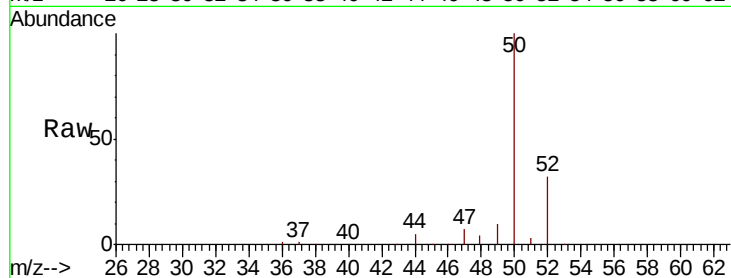
52 31.9 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.16 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051066.D

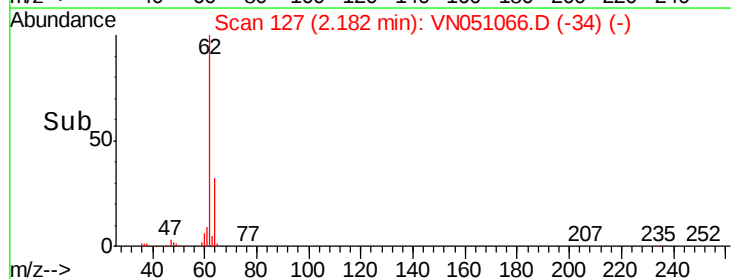
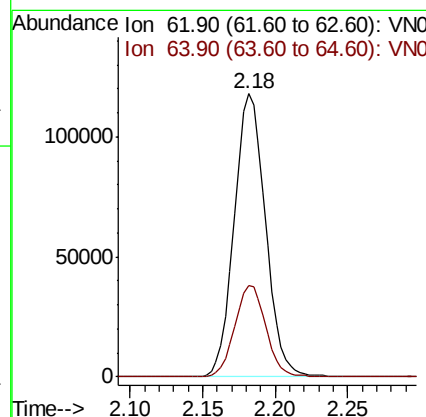
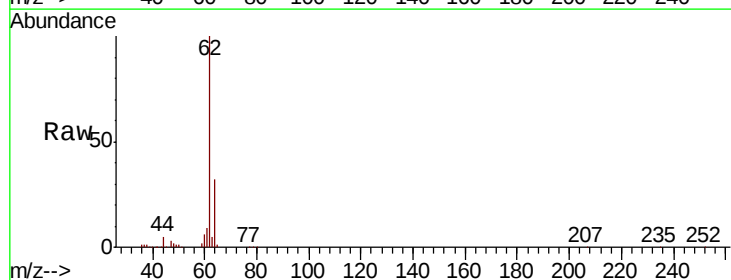
Acq: 10 Sep 2018 8:58

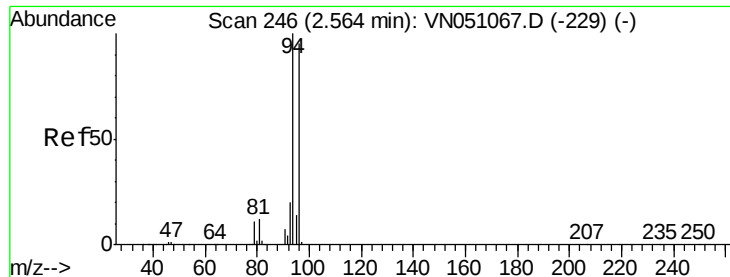
Tgt Ion: 62 Resp: 176363

Ion Ratio Lower Upper

62 100

64 32.2 26.2 39.4





#5

Bromomethane

Concen: 16.49 ug/l

RT: 2.56 min Scan# 246

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

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ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 101669

Ion Ratio Lower Upper

94 100

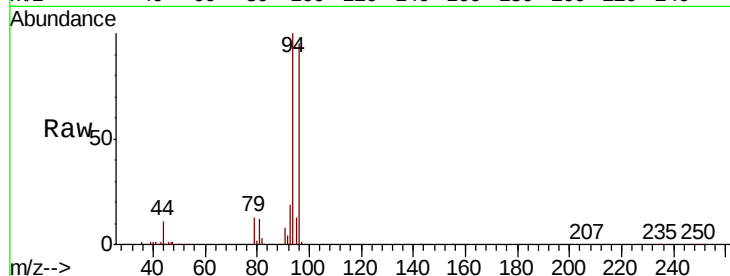
96 95.0 75.9 113.9

Manual Integrations

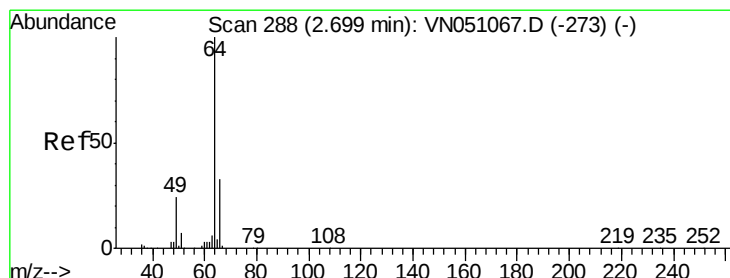
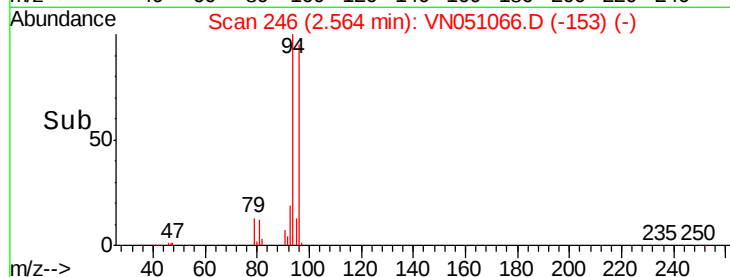
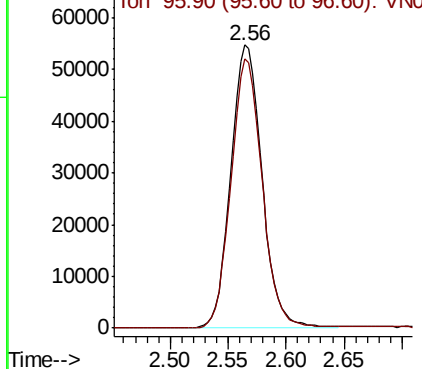
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Abundance Ion 93.90 (93.60 to 94.60): VN051066.D (-153) (-)



#6

Chloroethane

Concen: 18.79 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051066.D

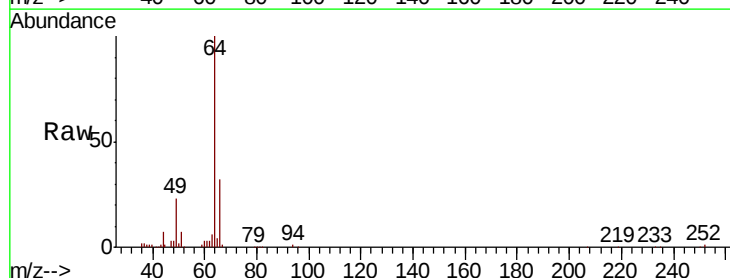
Acq: 10 Sep 2018 8:58

Tgt Ion: 64 Resp: 106733

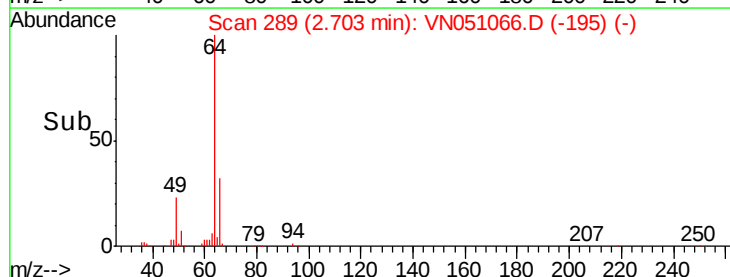
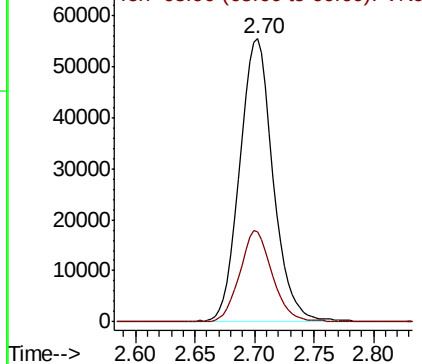
Ion Ratio Lower Upper

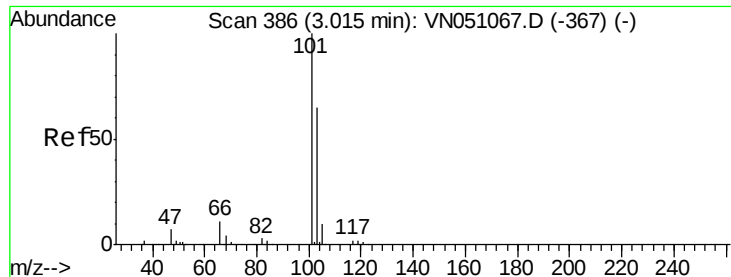
64 100

66 32.1 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VN051066.D (-195) (-)





#7

Trichlorofluoromethane

Concen: 19.21 ug/l

RT: 3.01 min Scan# 386

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 101 Resp: 234246

Ion Ratio Lower Upper

101 100

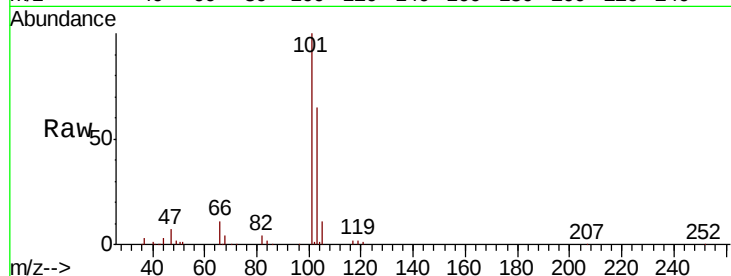
103 65.0 52.4 78.6

Manual Integrations

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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.01

120000

100000

80000

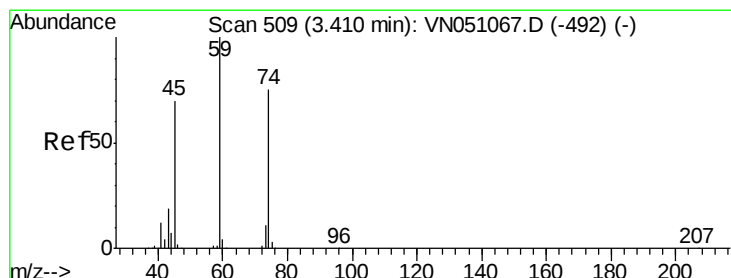
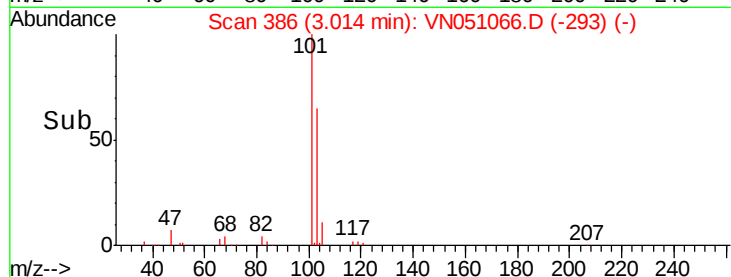
60000

40000

20000

0

Time--> 2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 19.80 ug/l

RT: 3.41 min Scan# 509

Delta R.T. -0.00 min

Lab File: VN051066.D

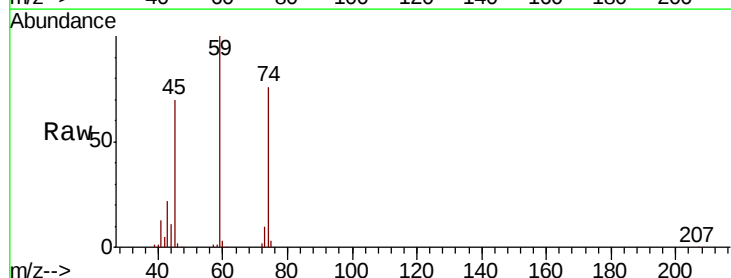
Acq: 10 Sep 2018 8:58

Tgt Ion: 74 Resp: 88815

Ion Ratio Lower Upper

74 100

45 95.3 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

40000

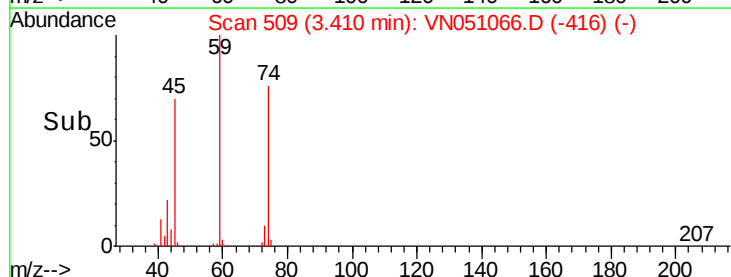
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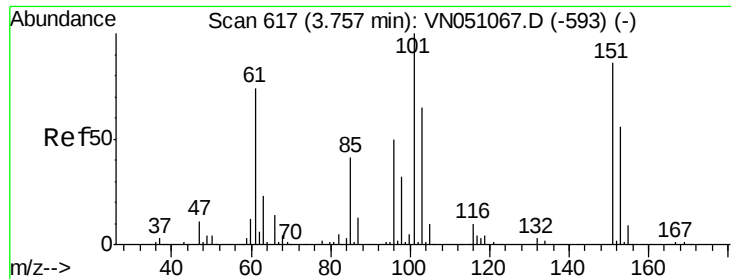
20000

10000

0

Time--> 3.30 3.35 3.40 3.45 3.50





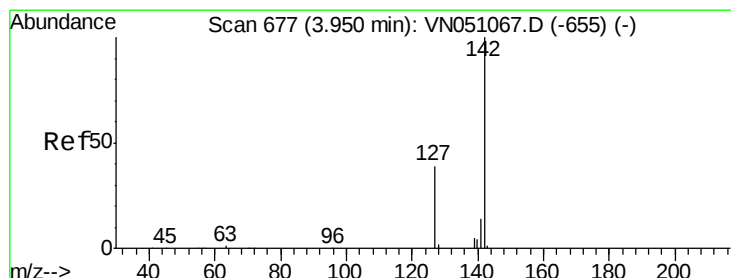
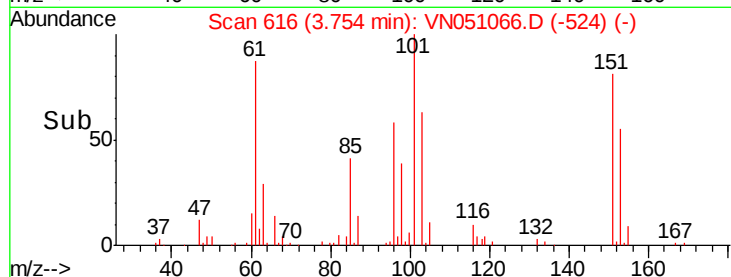
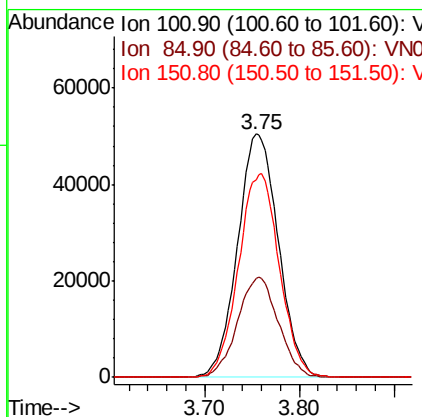
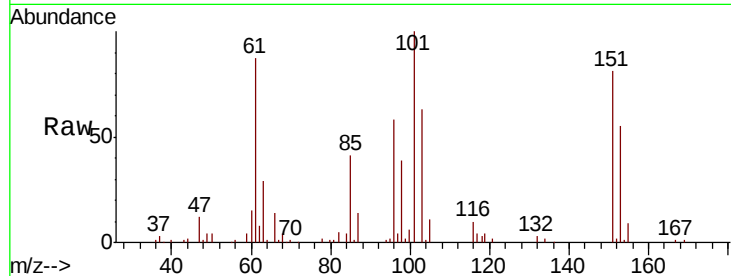
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.22 ug/l
 RT: 3.75 min Scan# 616
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
101	100	151113		
85	41.2	33.3	49.9	
151	83.7	68.2	102.2	

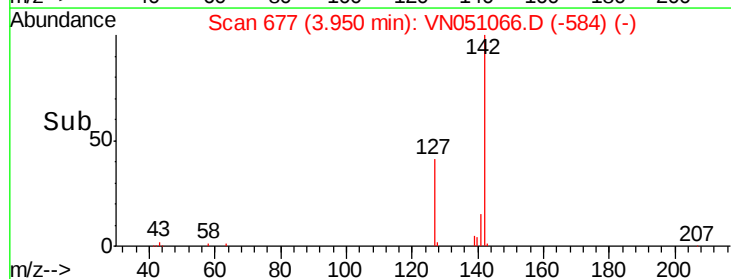
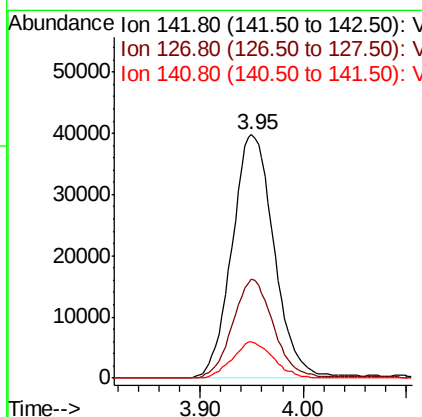
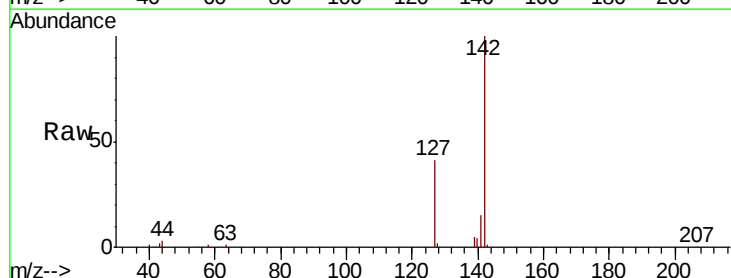
Manual Integrations
 APPROVED

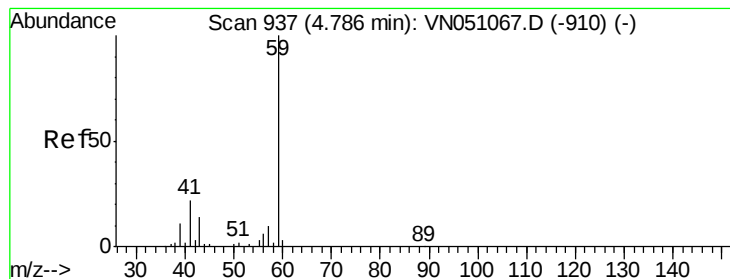
MMDadoda
 9/11/2018 9:40:15 AM



#10
 Methyl Iodide
 Concen: 16.77 ug/l
 RT: 3.95 min Scan# 677
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	112607		
127	39.5	31.0	46.4	
141	14.5	11.3	16.9	





#11

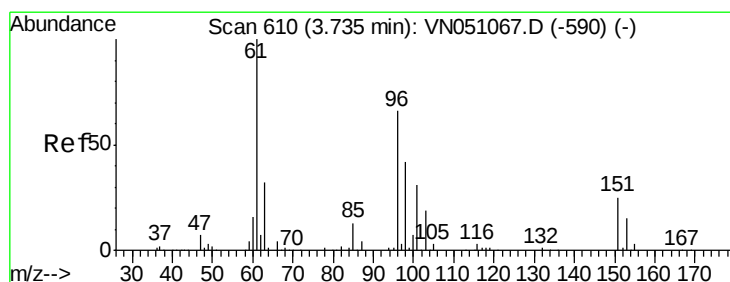
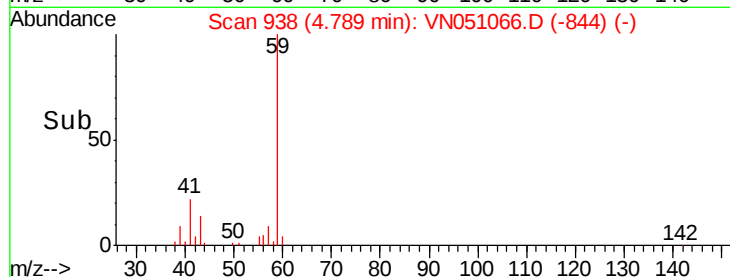
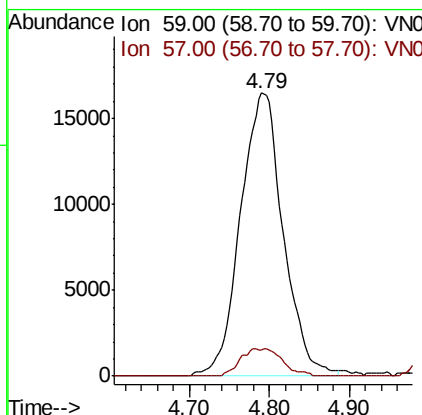
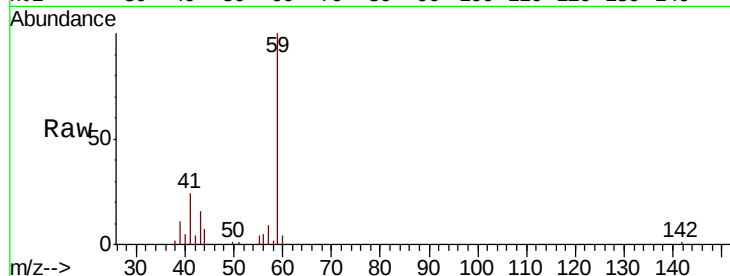
Tert butyl alcohol
 Concen: 101.52 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.3	8.1	12.1#

Manual Integrations
 APPROVED

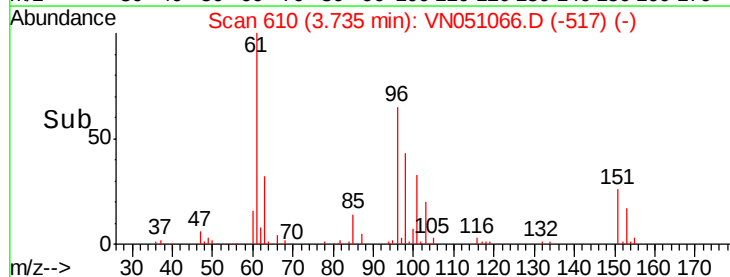
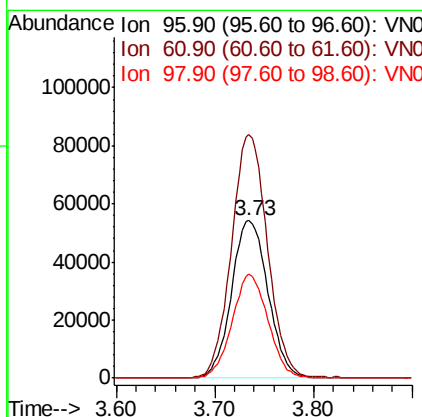
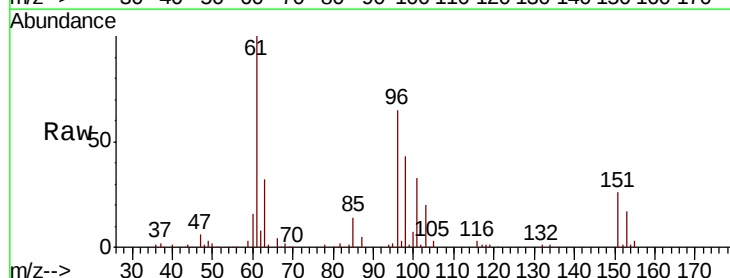
MMDadoda
 9/11/2018 9:40:15 AM

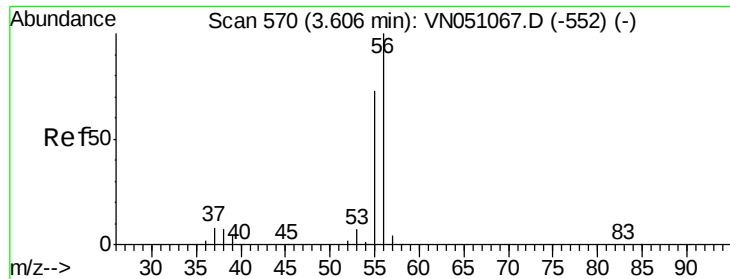


#12

1,1-Dichloroethene
 Concen: 18.85 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.3	120.3	180.5
98	65.9	50.8	76.2





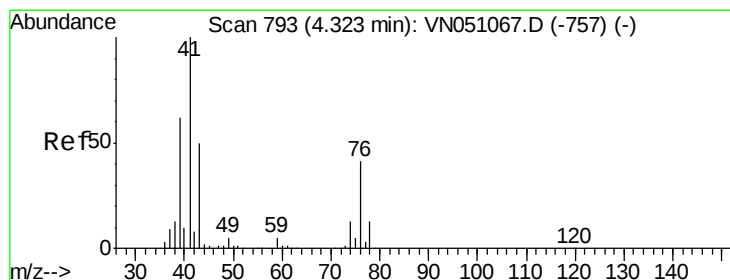
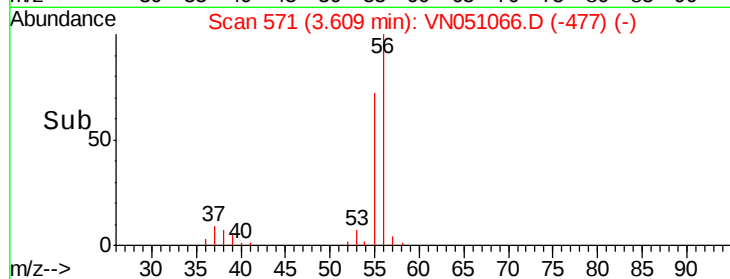
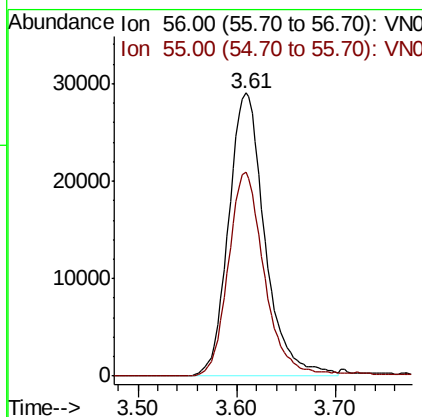
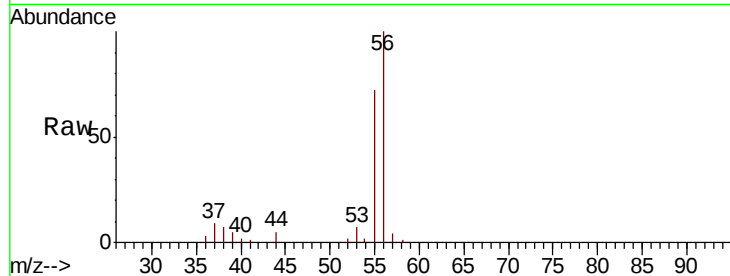
#13
Acrolein
Concen: 110.52 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	56	55	Ratio	Lower	Upper
74509	100	71.6		58.0	87.0

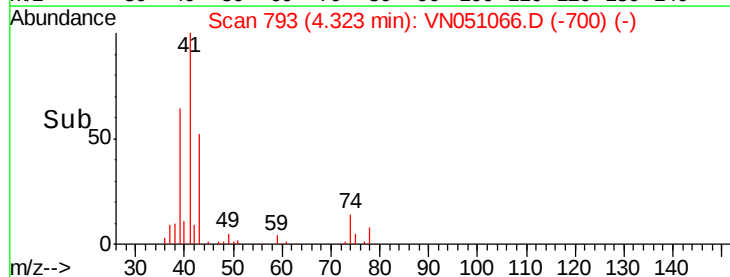
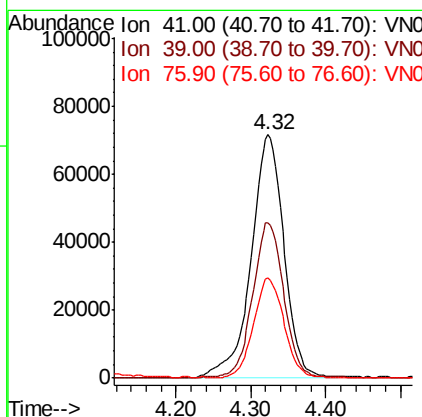
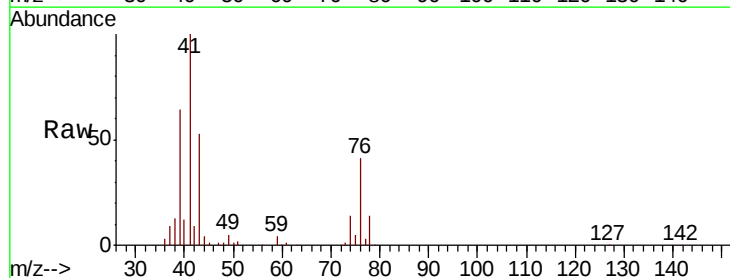
Manual Integrations
APPROVED

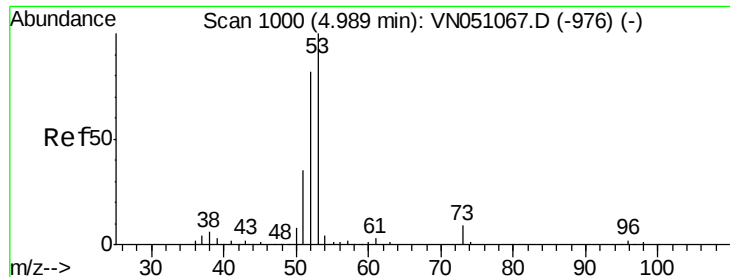
MMDadoda
9/11/2018 9:40:15 AM



#14
Allyl chloride
Concen: 19.39 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	41	39	76	Ratio	Lower	Upper
219061	100	60.8	38.4		48.8	73.2





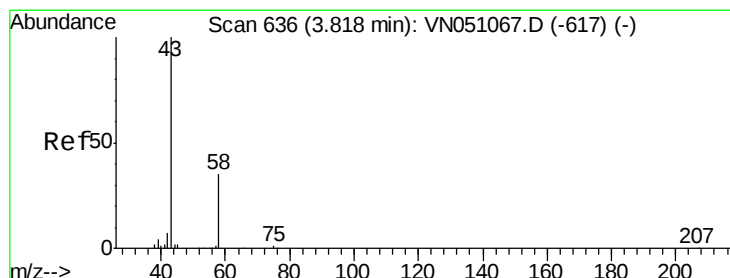
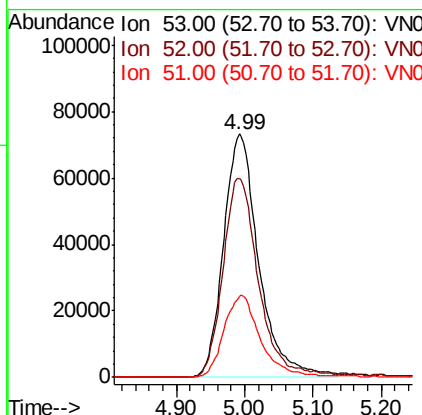
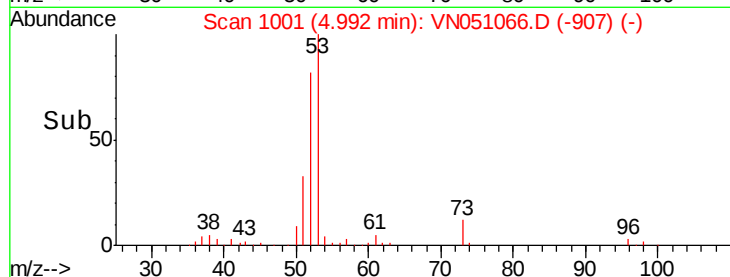
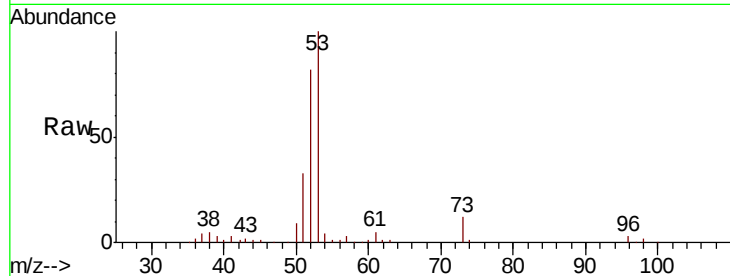
#15
 Acrylonitrile
 Concen: 100.42 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	53	Resp:	262967
Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.3	97.9
51	34.9	28.2	42.2

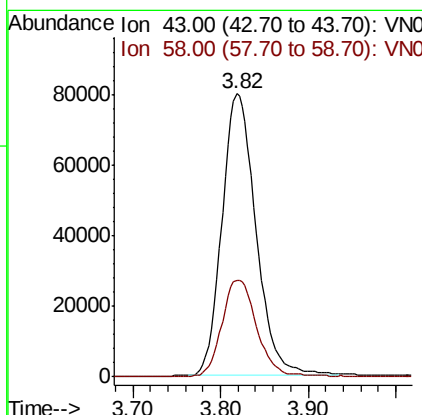
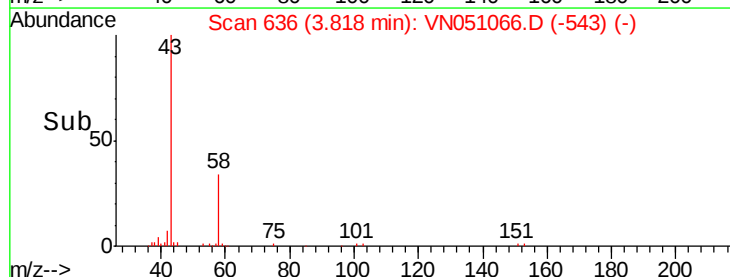
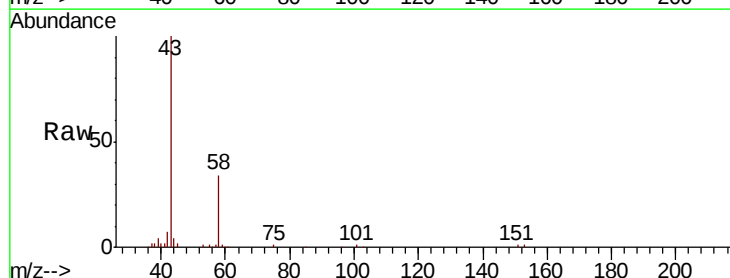
Manual Integrations
 APPROVED

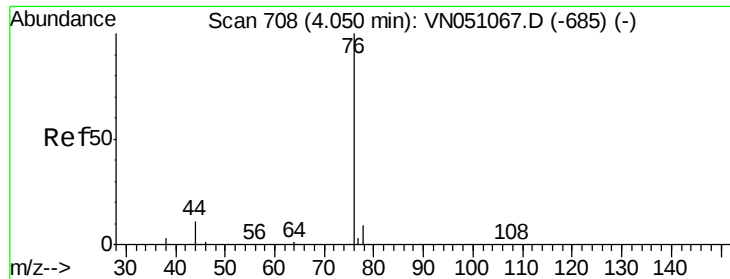
MMDadoda
 9/11/2018 9:40:15 AM



#16
 Acetone
 Concen: 99.77 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion:	43	Resp:	214466
Ion	Ratio	Lower	Upper
43	100		
58	34.3	27.8	41.6





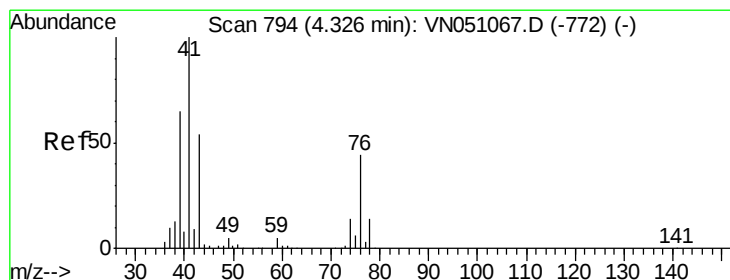
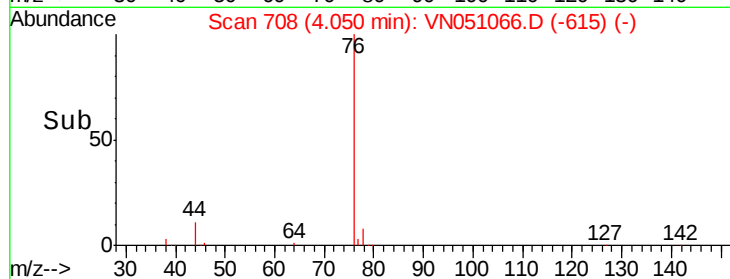
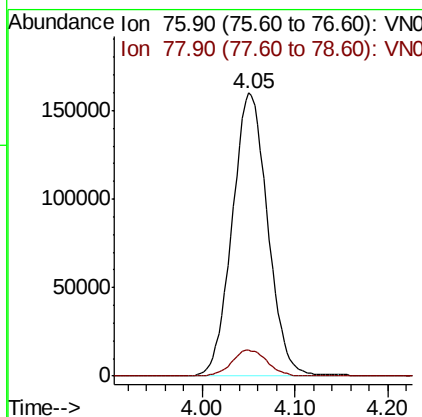
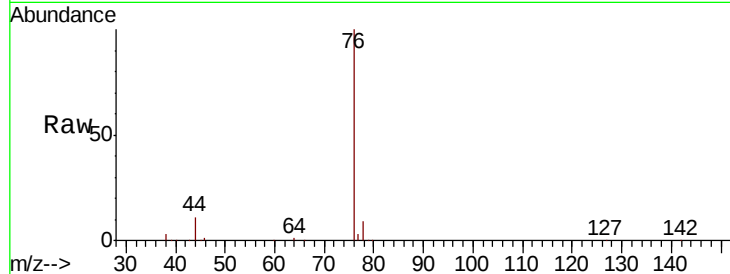
#17
Carbon Disulfide
Concen: 17.39 ug/l
RT: 4.05 min Scan# 708
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.6

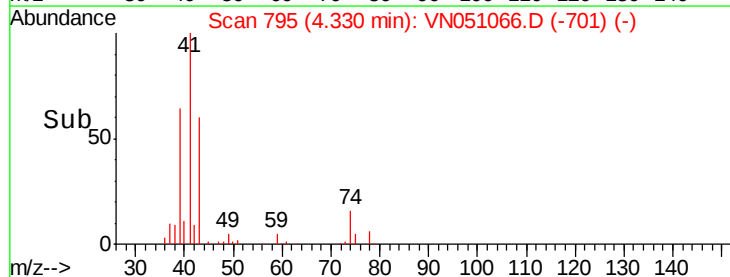
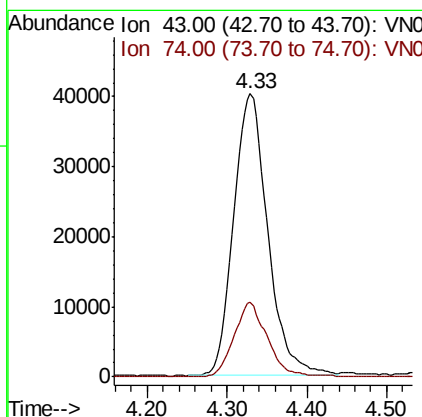
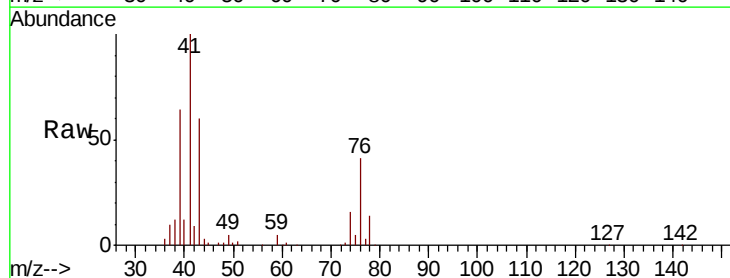
Manual Integrations
APPROVED

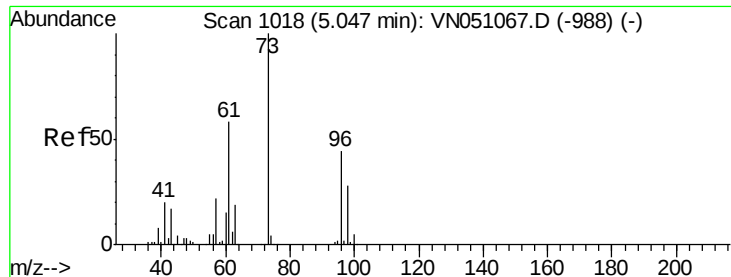
MMDadoda
9/11/2018 9:40:15 AM



#18
Methyl Acetate
Concen: 18.83 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.7	20.7	31.1





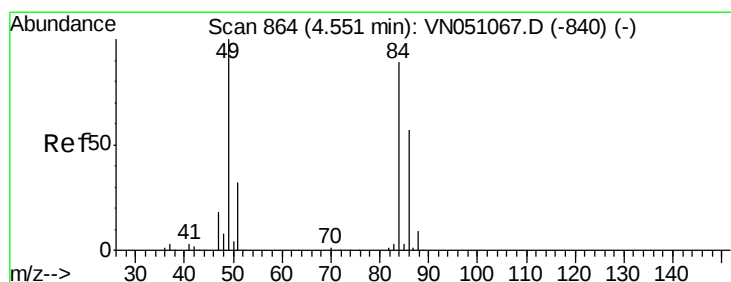
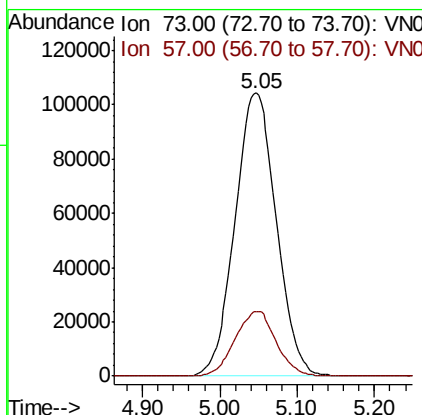
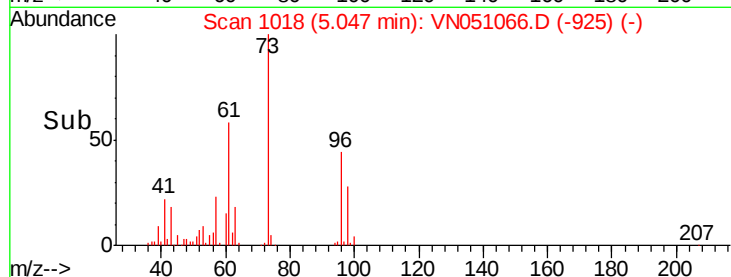
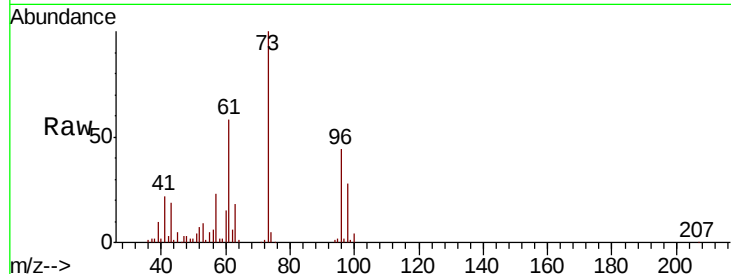
#19
Methvl tert-butvl Ether
Concen: 21.77 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 387745
Ion Ratio Lower Upper
73 100
57 22.9 17.9 26.9

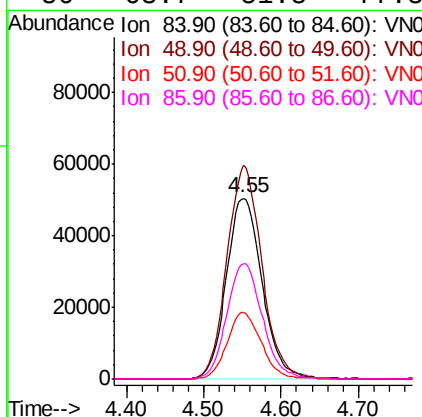
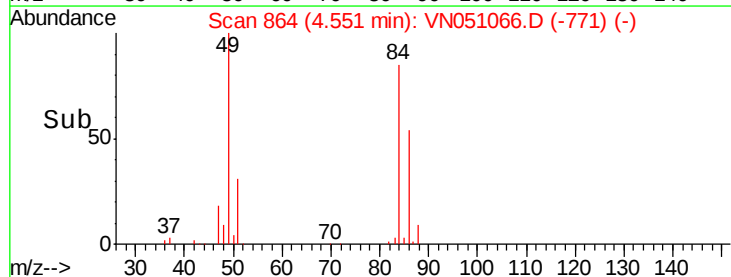
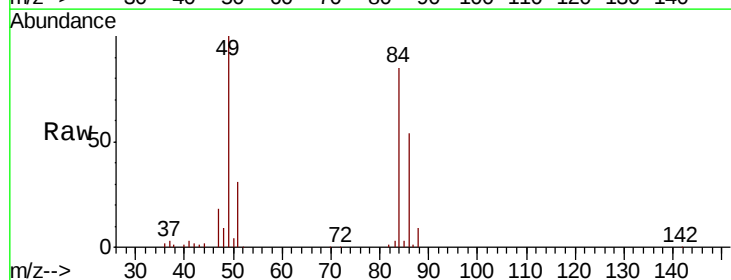
Manual Integrations
APPROVED

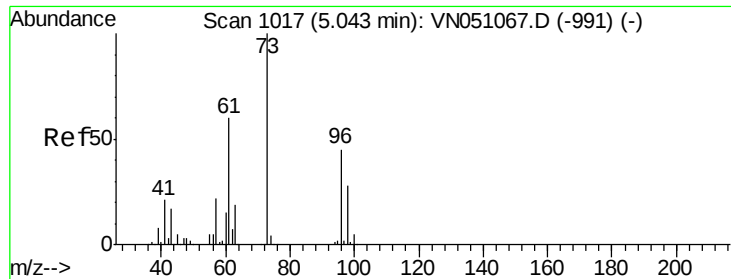
MMDadoda
9/11/2018 9:40:15 AM



#20
Methylene Chloride
Concen: 18.95 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion: 84 Resp: 161949
Ion Ratio Lower Upper
84 100
49 118.1 90.2 135.2
51 36.9 28.4 42.6
86 63.7 51.8 77.8





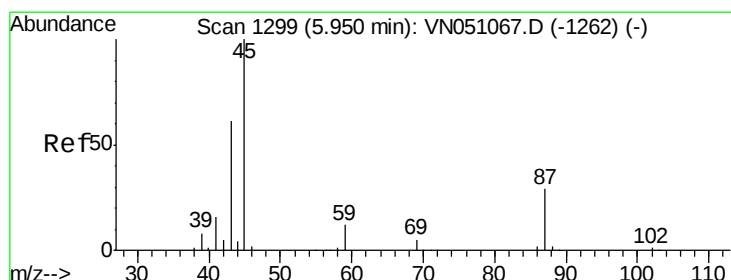
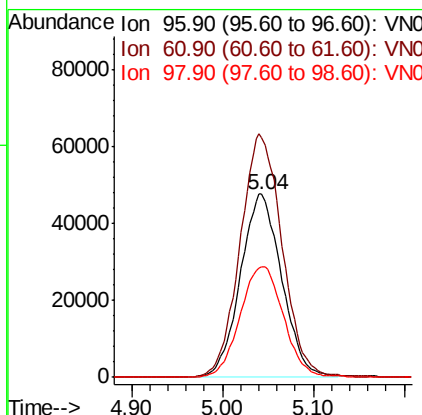
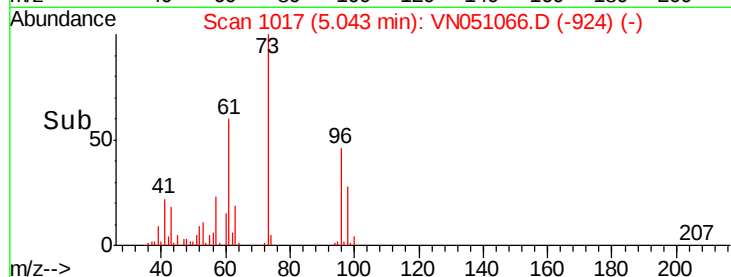
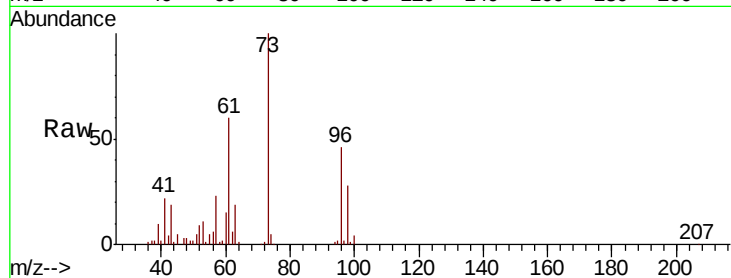
#21
trans-1,2-Dichloroethene
Concen: 18.72 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.0	106.5	159.7
98	60.6	50.4	75.6

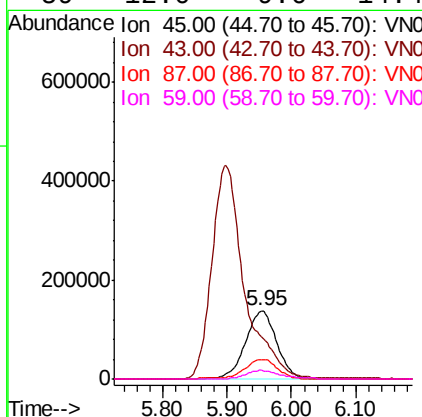
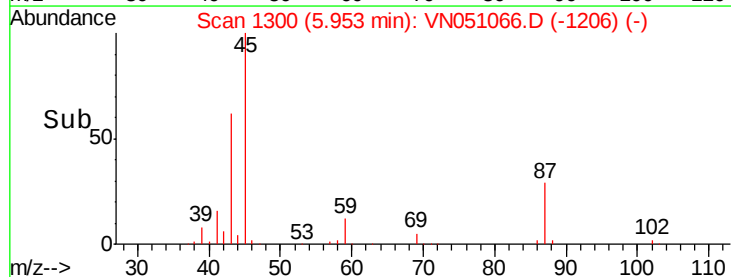
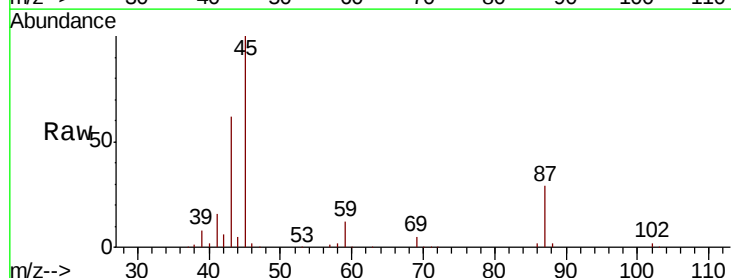
Manual Integrations
APPROVED

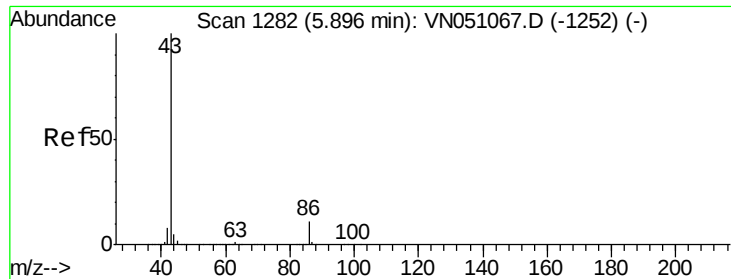
MMDadoda
9/11/2018 9:40:15 AM



#22
Diisopropyl ether
Concen: 20.66 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.0	48.8	73.2
87	28.9	23.8	35.8
59	12.0	9.6	14.4





#23

Vinyl Acetate

Concen: 100.44 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1524570

Ion Ratio Lower Upper

43 100

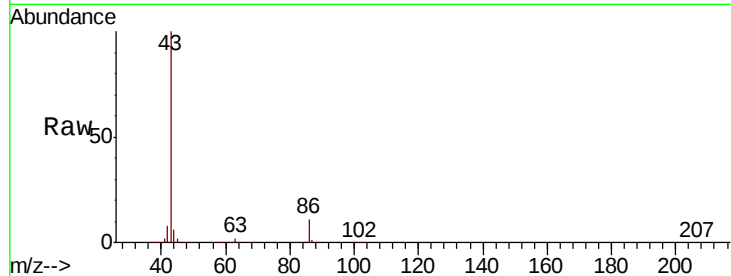
86 11.2 9.2 13.8

Manual Integrations

APPROVED

MMDadoda

9/11/2018 9:40:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VN051066.D (-1189) (-)

Ion 86.00 (85.70 to 86.70): VN051066.D (-1189) (-)

500000

400000

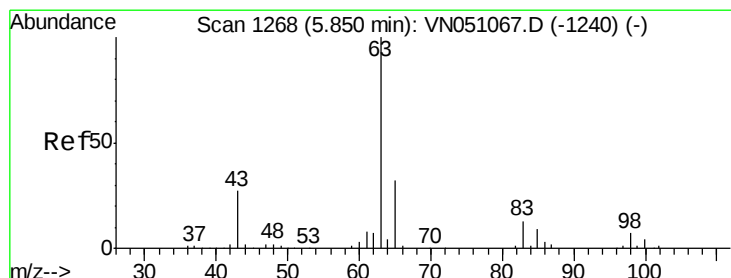
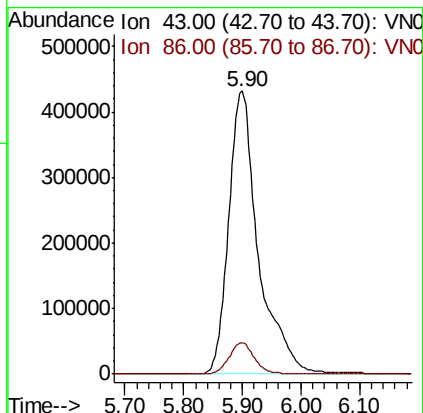
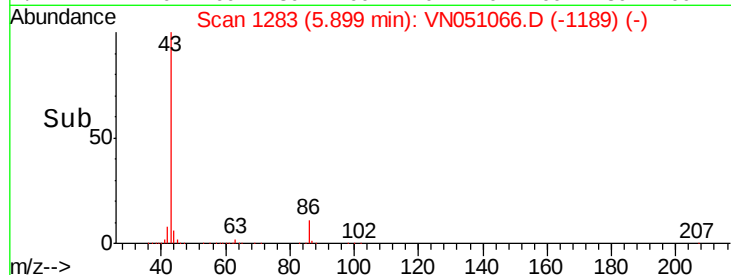
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.41 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

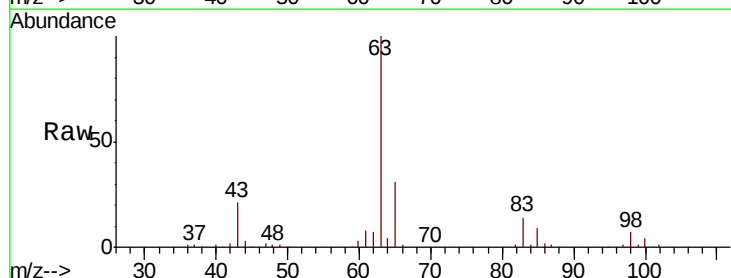
Tgt Ion: 63 Resp: 276266

Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.1

100 4.4 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VN051066.D (-1175) (-)

Ion 97.90 (97.60 to 98.60): VN051066.D (-1175) (-)

Ion 99.90 (99.60 to 100.60): VN051066.D (-1175) (-)

120000

100000

80000

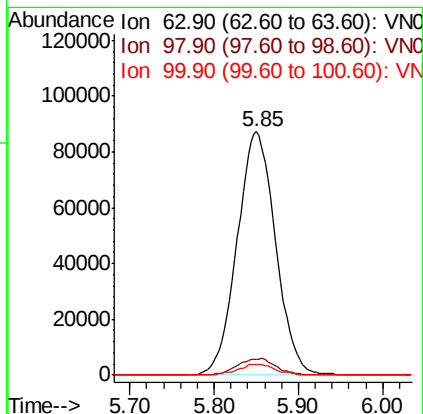
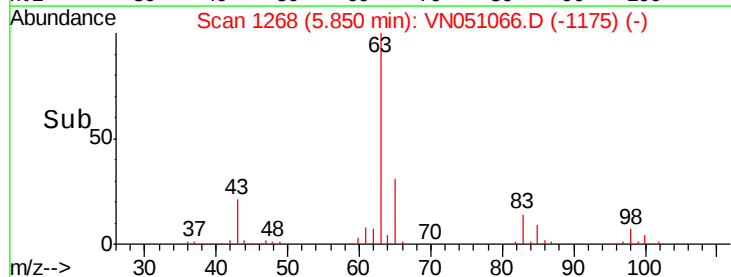
60000

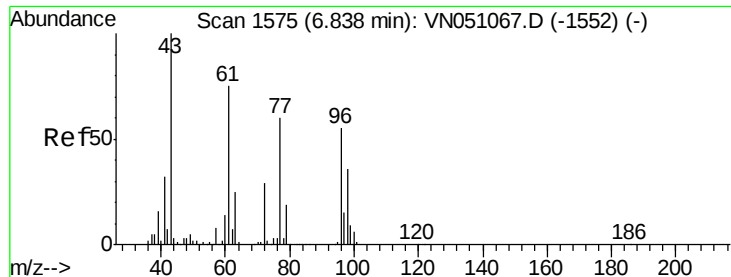
40000

20000

0

Time-->





#25

2-Butanone

Concen: 100.08 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 304435

Ion Ratio Lower Upper

43 100

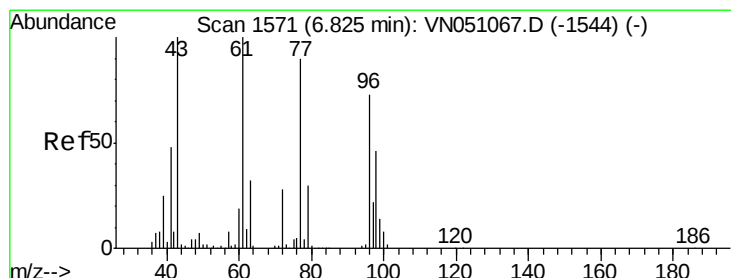
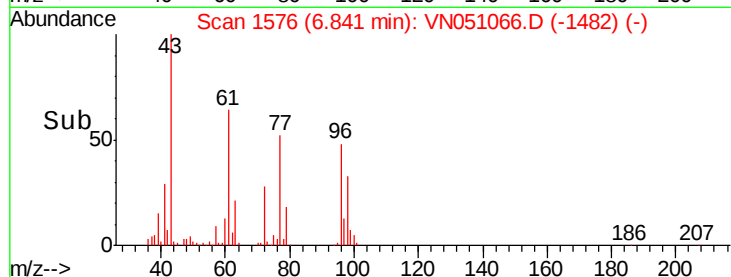
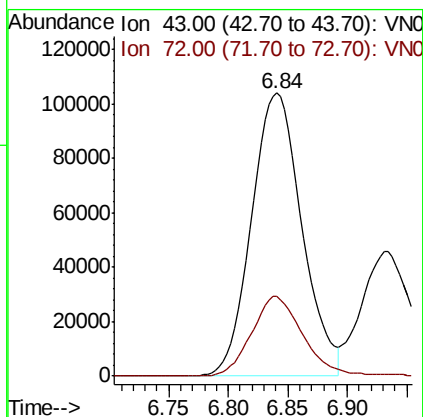
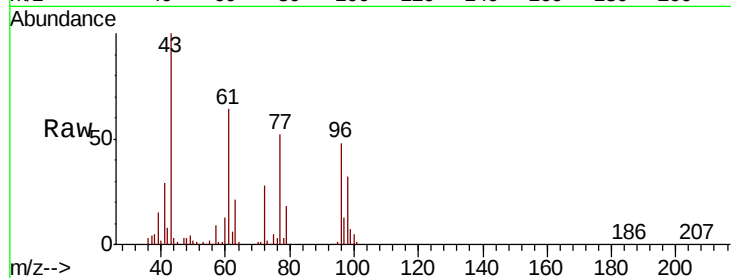
72 28.0 23.0 34.6

Manual Integrations

APPROVED

MMDadoda

9/11/2018 9:40:15 AM



#26

2,2-Dichloropropane

Concen: 19.10 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN051066.D

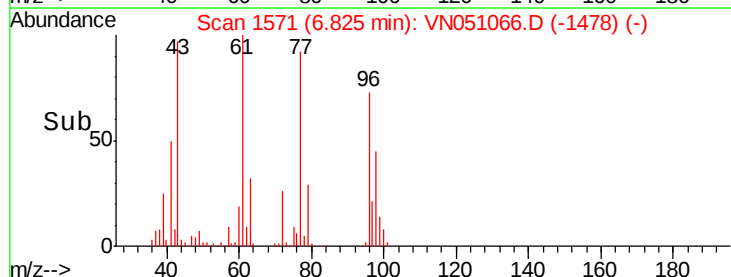
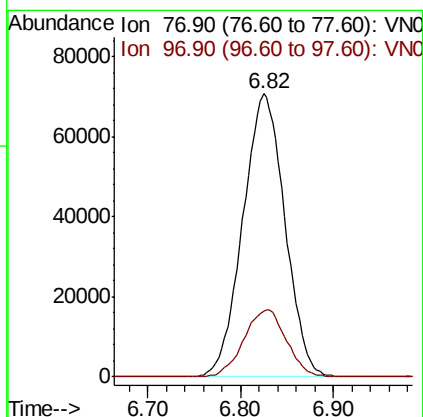
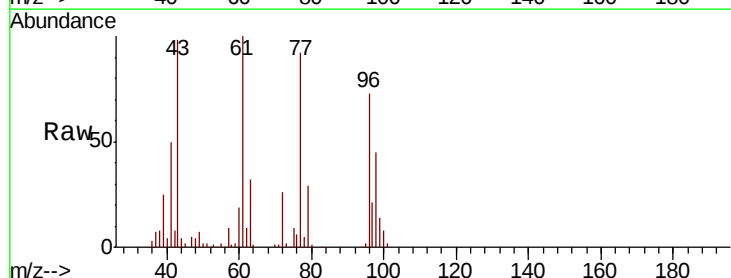
Acq: 10 Sep 2018 8:58

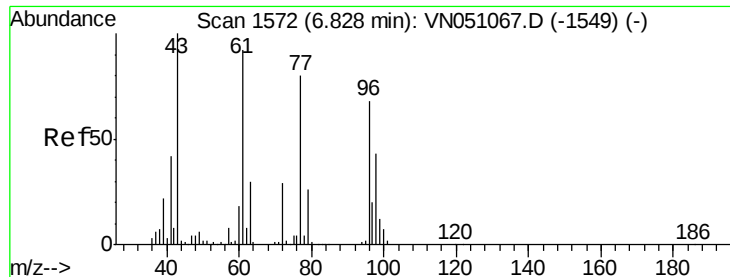
Tgt Ion: 77 Resp: 222517

Ion Ratio Lower Upper

77 100

97 23.9 12.1 36.3





#27

cis-1,2-Dichloroethene

Concen: 19.09 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

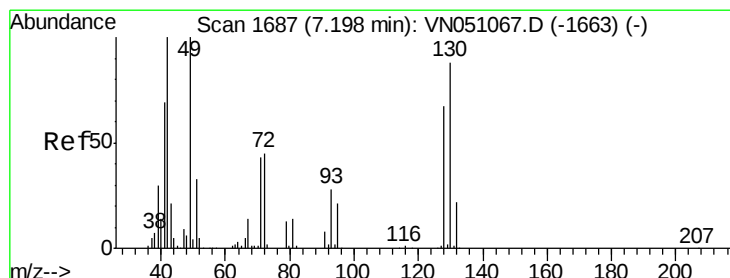
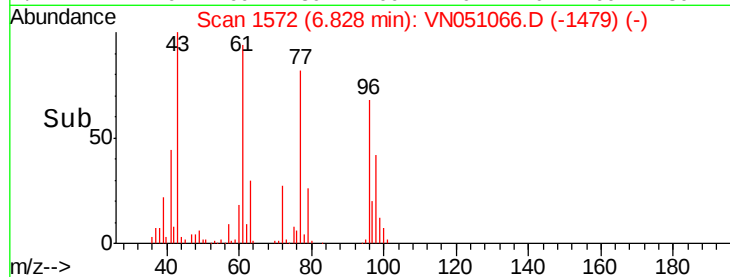
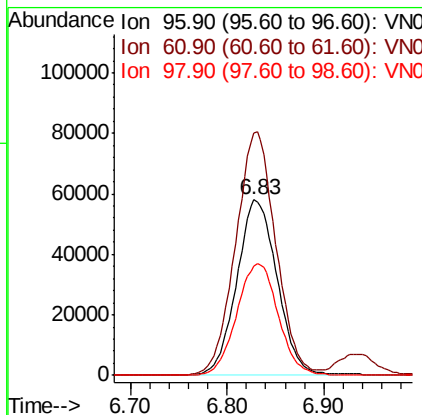
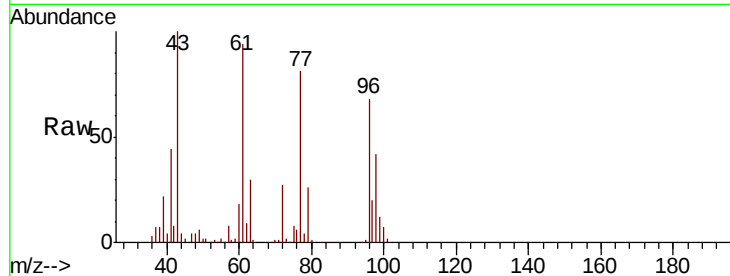
ClientSampled :

VSTDIC020

Tot Ion:	96	Resp:	168421
Ion	Ratio	Lower	Upper
96	100		
61	138.1	0.0	278.2
98	65.2	0.0	129.4

Manual Integrations
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9/11/2018 9:40:15 AM



#28

Bromochloromethane

Concen: 19.74 ug/l

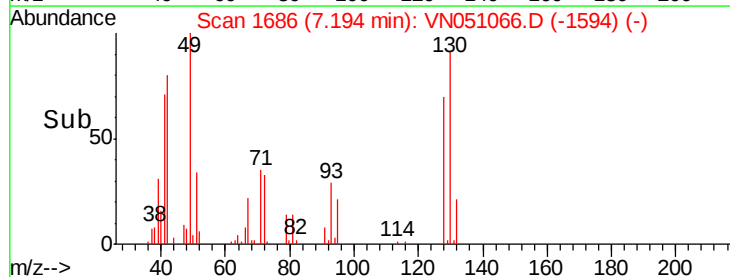
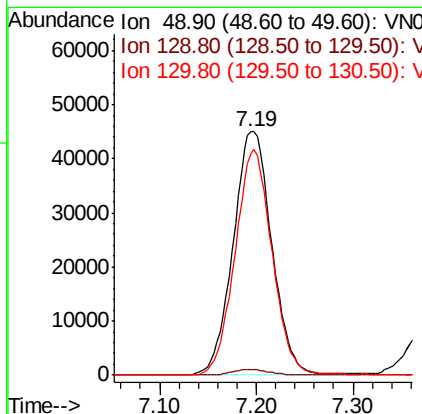
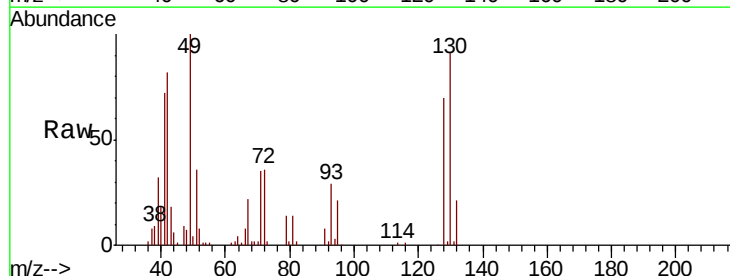
RT: 7.19 min Scan# 1686

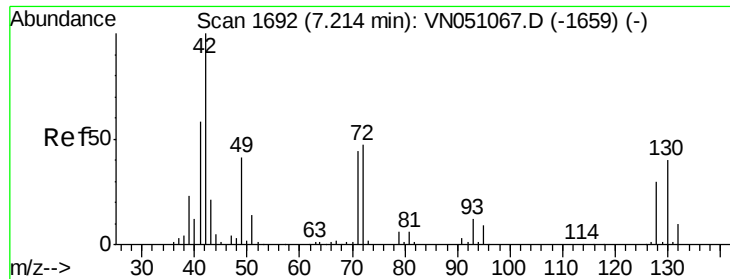
Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Tgt Ion:	49	Resp:	125056
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	88.4	70.7	106.1





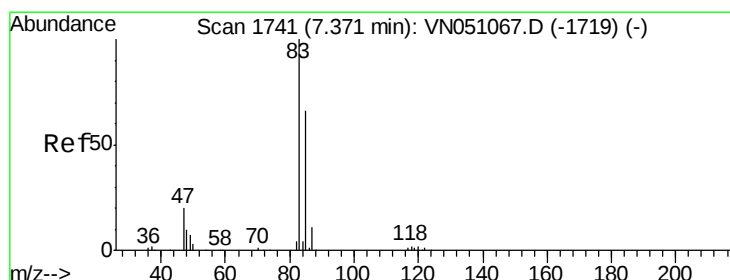
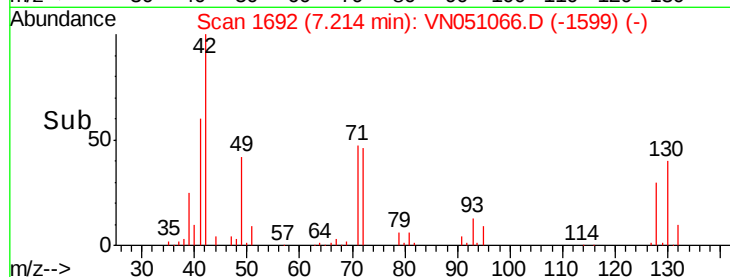
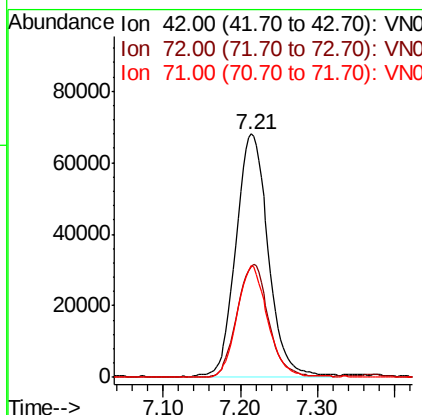
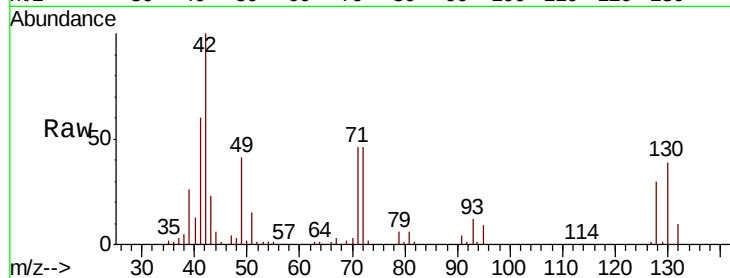
#29
Tetrahydrofuran
Concen: 103.24 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	37.4	56.0
71	43.5	34.7	52.1

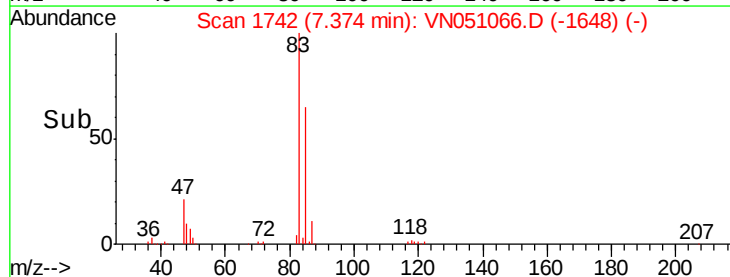
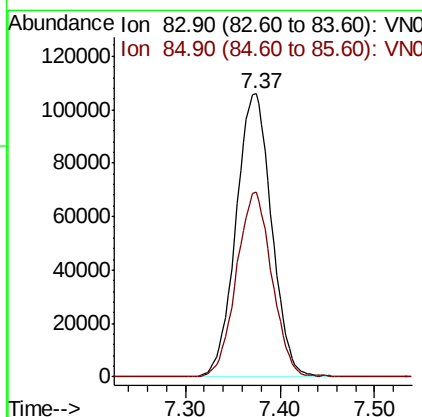
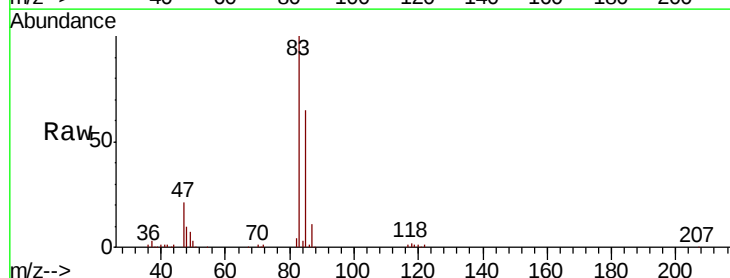
Manual Integrations
APPROVED

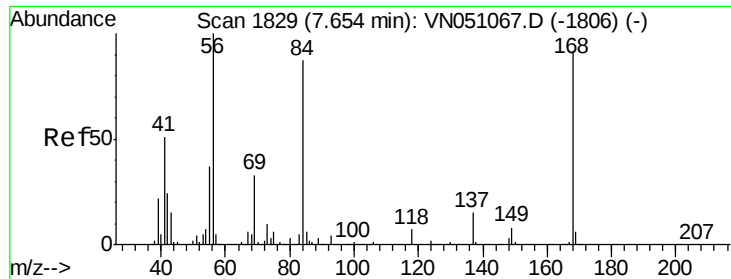
MMDadoda
9/11/2018 9:40:15 AM



#30
Chloroform
Concen: 19.57 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.6	79.0





#31

Cyclohexane

Concen: 17.37 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampled :

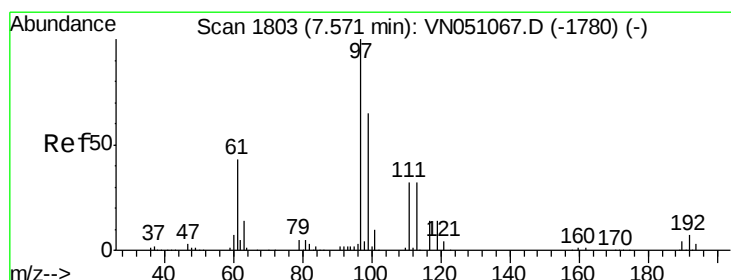
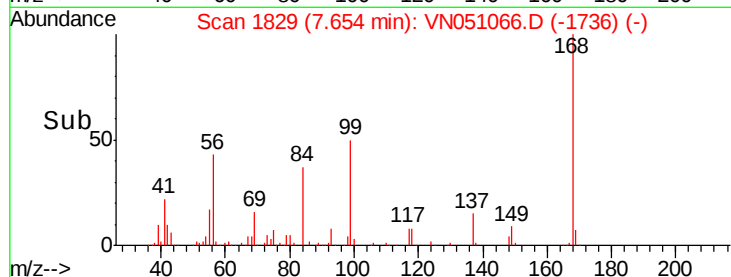
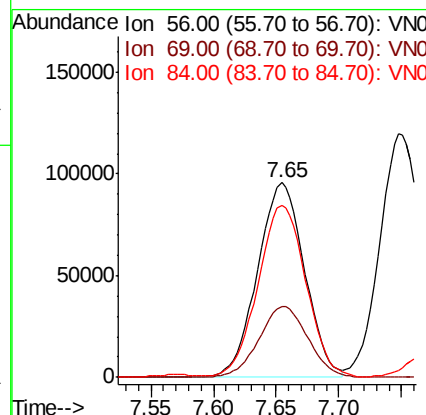
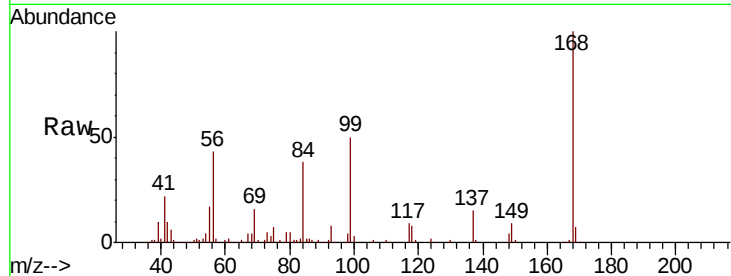
VSTDIC020

Tot Ion: 56 Resp: 249987

Ion	Ratio	Lower	Upper
56	100		
69	36.3	26.3	39.5
84	87.6	69.4	104.0

Manual Integrations
APPROVED

MMDadoda
9/11/2018 9:40:15 AM



#32

1,1,1-Trichloroethane

Concen: 19.68 ug/l

RT: 7.57 min Scan# 1803

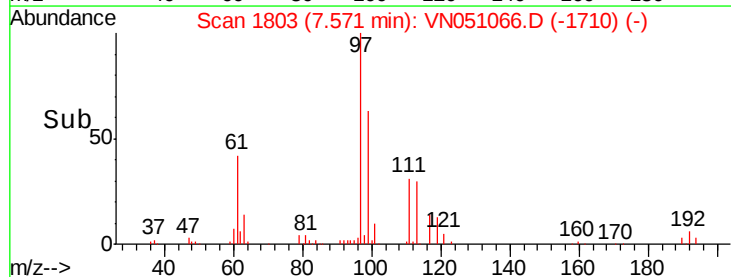
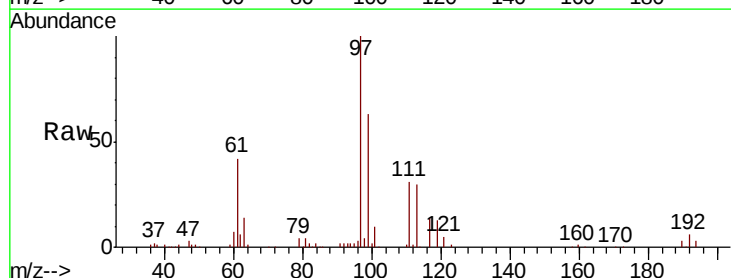
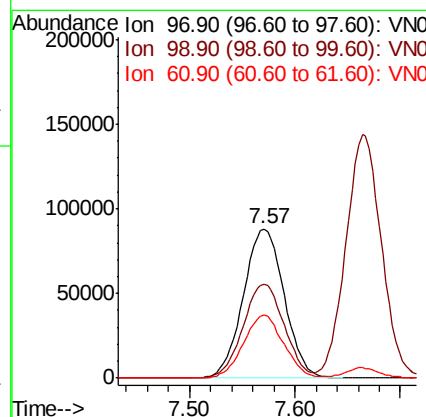
Delta R.T. -0.00 min

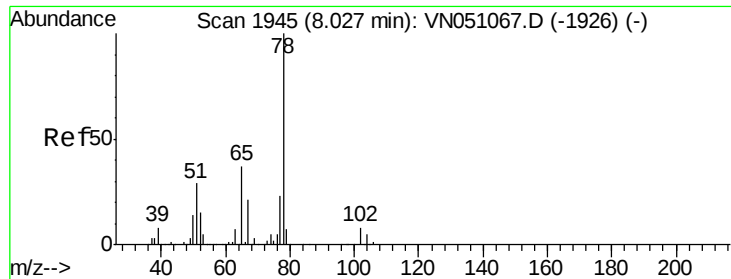
Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Tgt Ion: 97 Resp: 237439

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.6	77.4
61	41.5	33.8	50.6





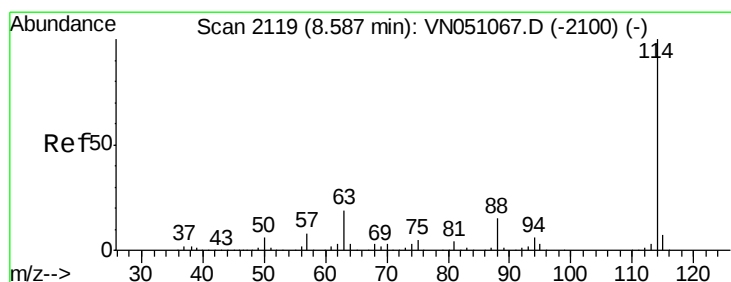
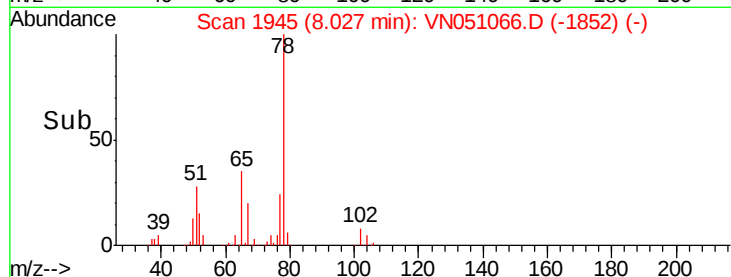
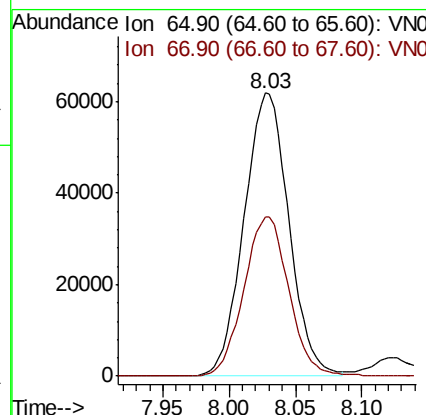
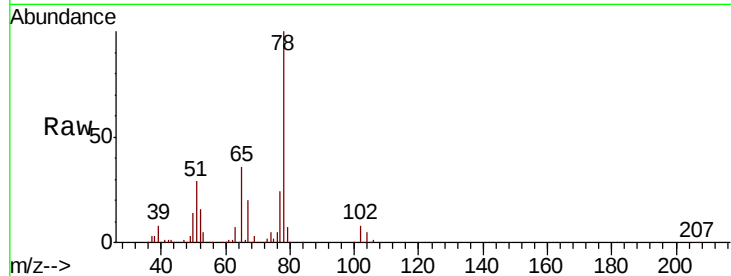
#33
 1,2-Dichloroethane-d4
 Concen: 18.83 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	145716		
67	56.5	0.0	112.0	

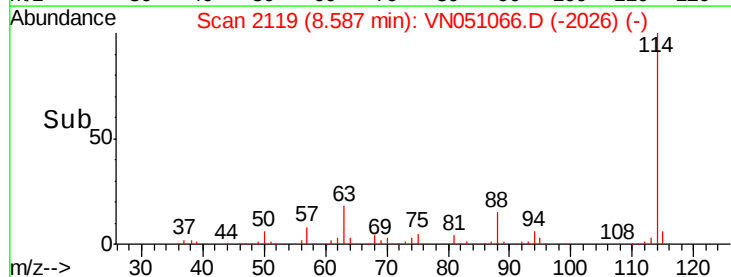
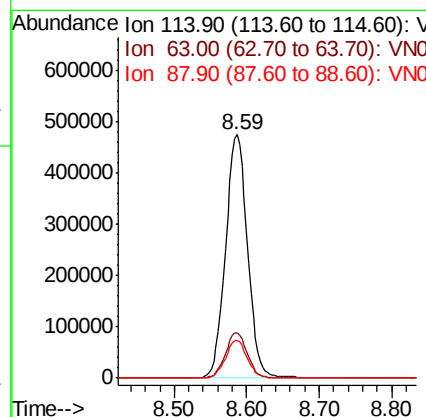
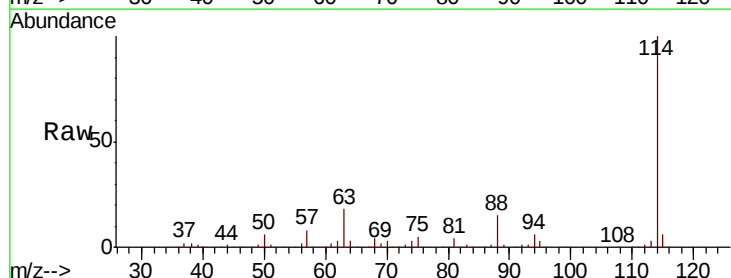
Manual Integrations
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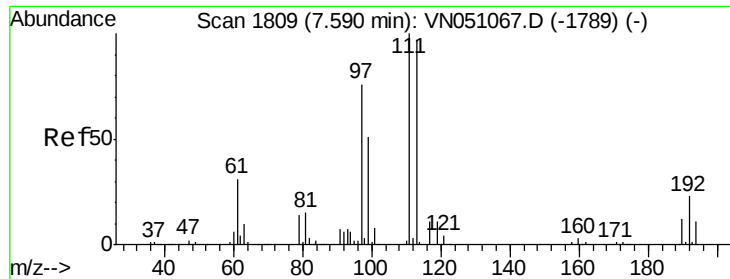
MMDadoda
 9/11/2018 9:40:15 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	995320		
63	18.5	0.0	37.8	
88	15.5	0.0	30.8	





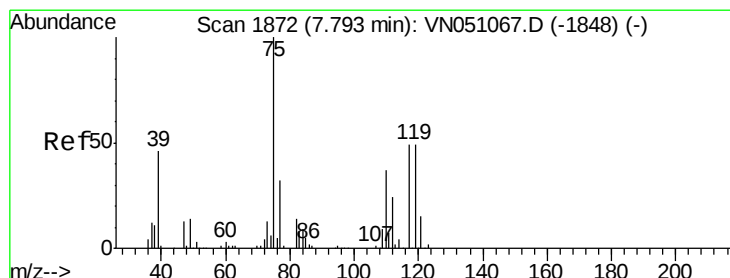
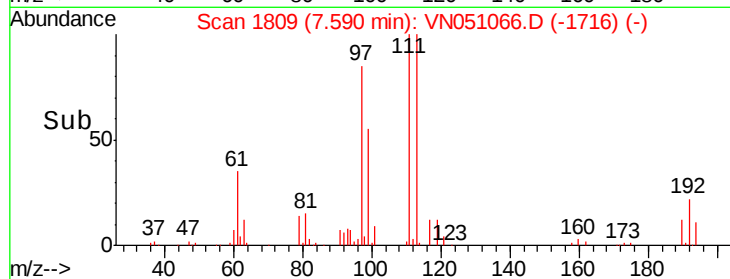
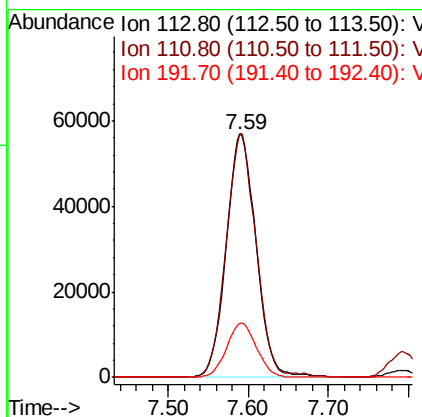
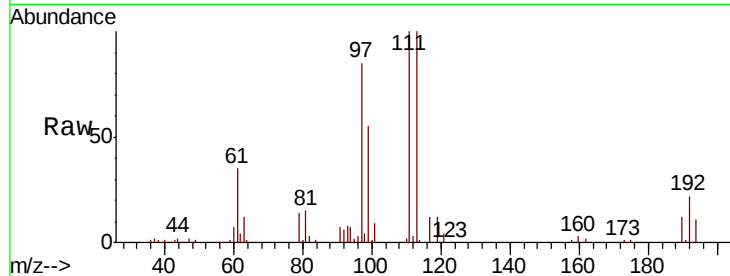
#35
Dibromofluoromethane
Concen: 19.31 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	144407		
111	99.0	83.0	124.6	
192	22.2	18.7	28.1	

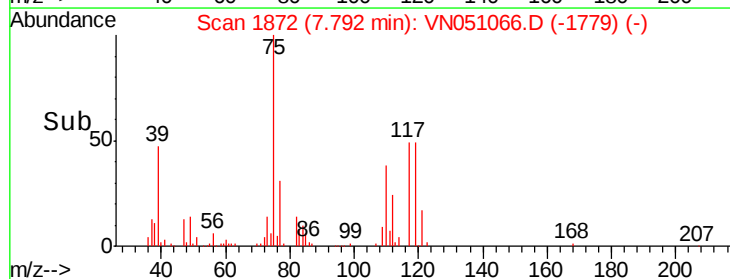
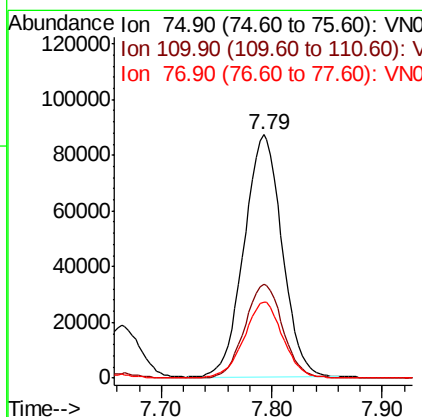
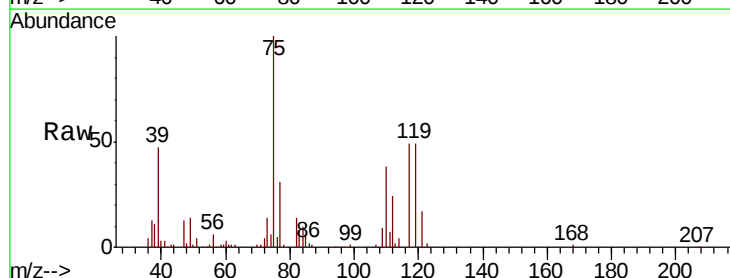
Manual Integrations
APPROVED

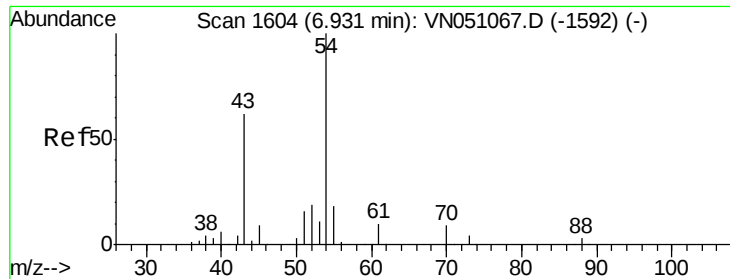
MMDadoda
9/11/2018 9:40:15 AM



#36
1,1-Dichloropropene
Concen: 19.12 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	208940		
110	38.4	18.6	55.8	
77	32.1	25.2	37.8	





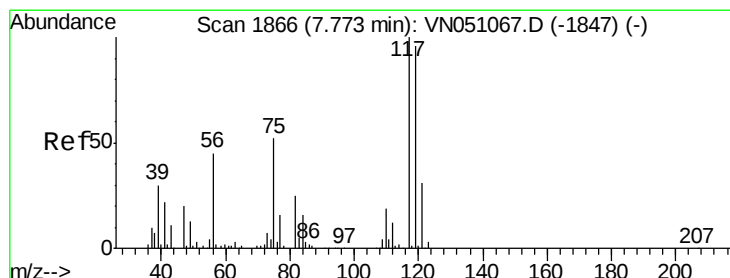
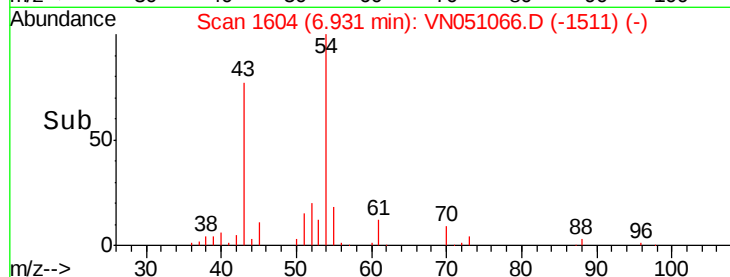
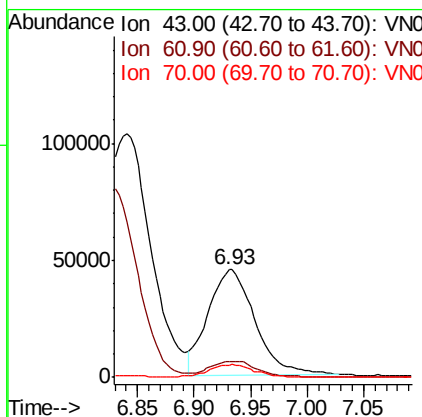
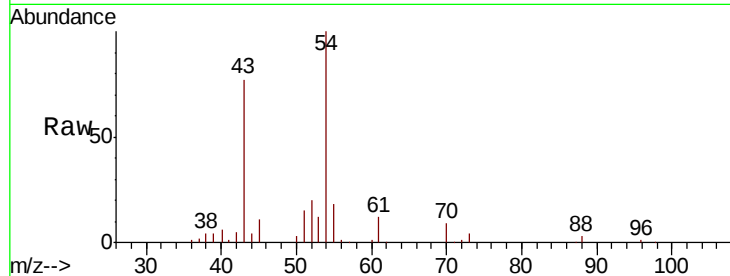
#37
Ethyl Acetate
Concen: 20.65 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	12.4	18.6
70	11.7	9.3	13.9

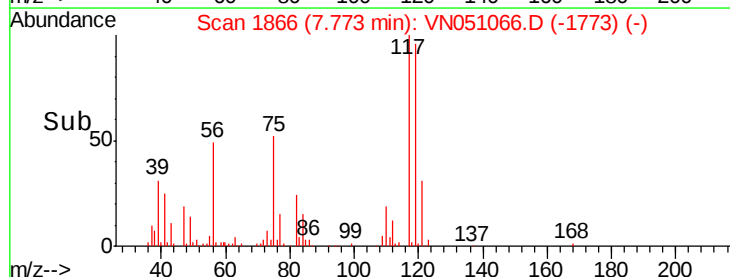
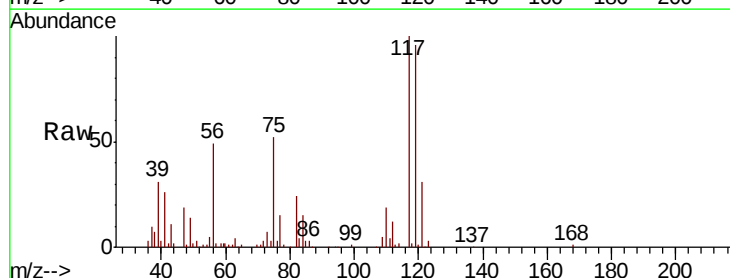
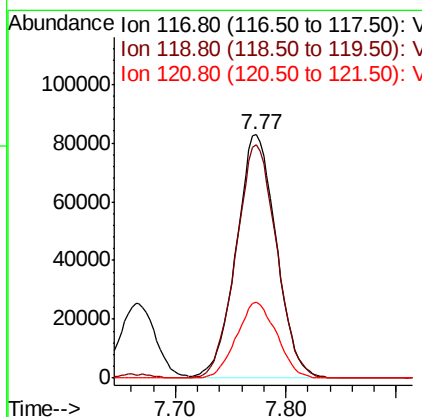
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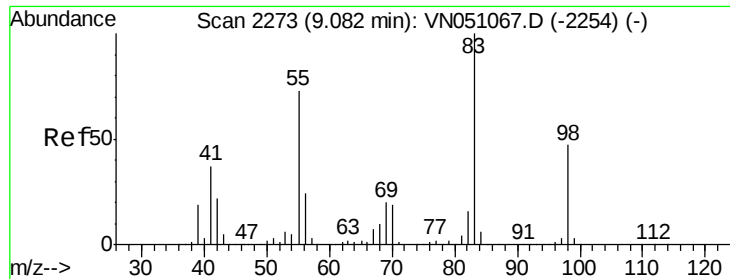
MMDadoda
9/11/2018 9:40:15 AM



#38
Carbon Tetrachloride
Concen: 19.44 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.8	115.2
121	31.3	24.6	36.8





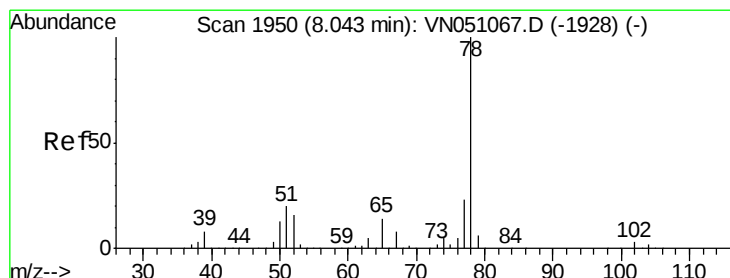
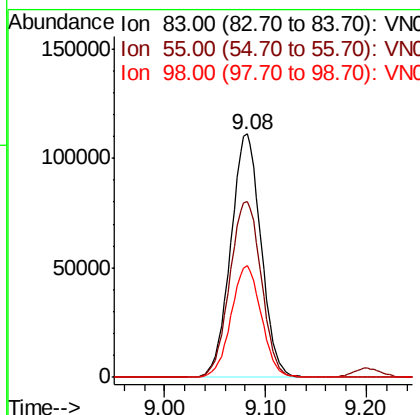
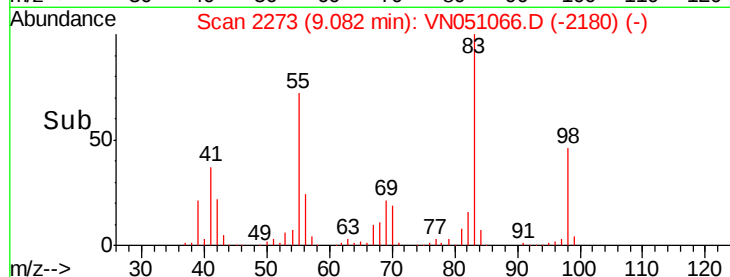
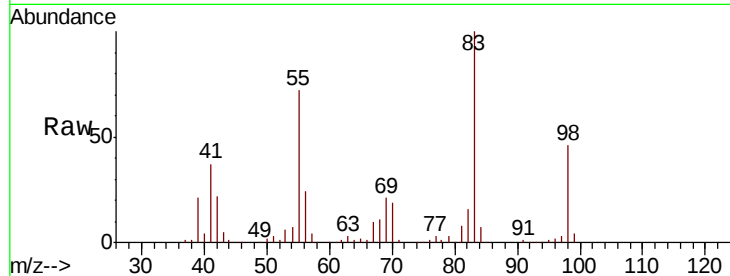
#39
Methvlcvclohexane
Concen: 19.23 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	231849		
55	72.0		58.4	87.6
98	45.8		37.3	55.9

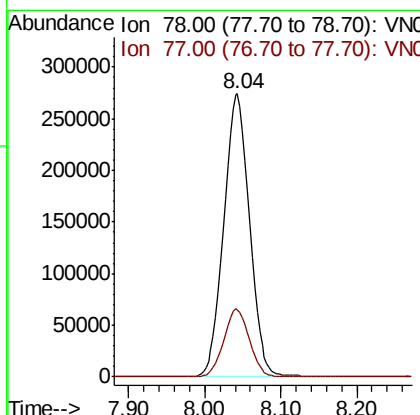
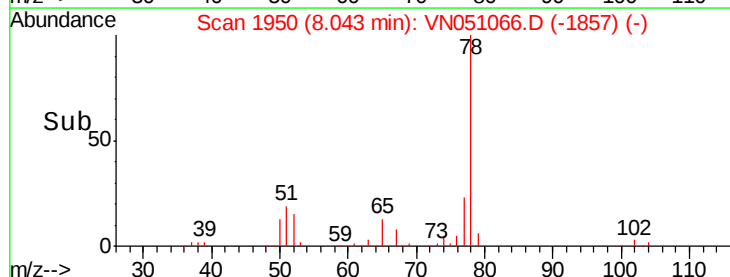
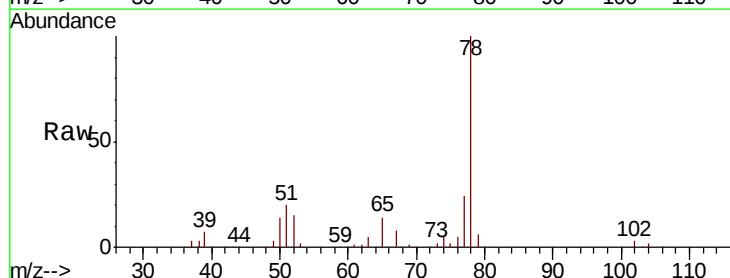
Manual Integrations
APPROVED

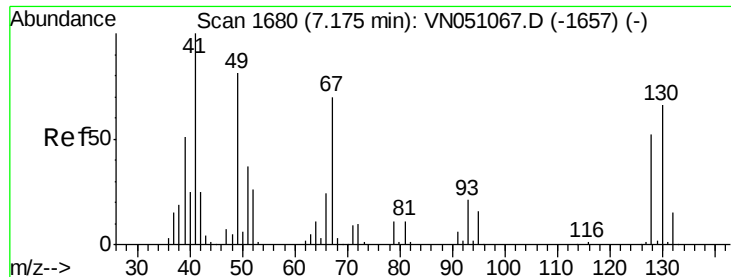
MMDadoda
9/11/2018 9:40:15 AM



#40
Benzene
Concen: 19.74 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	650081		
77	23.7		18.6	27.8





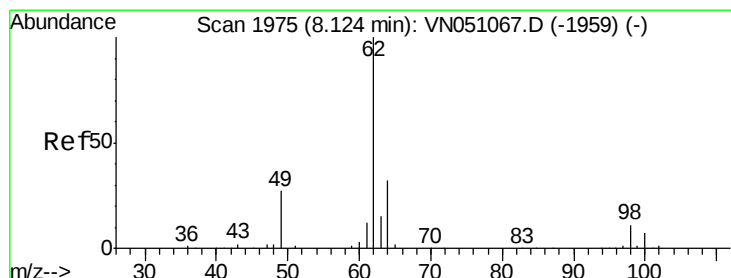
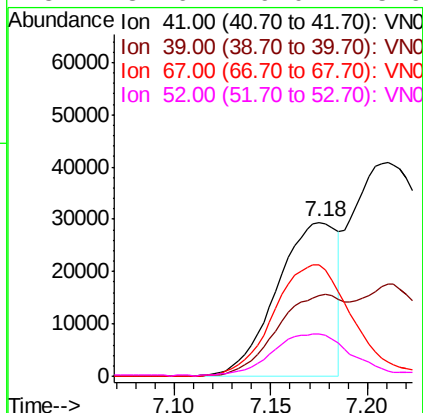
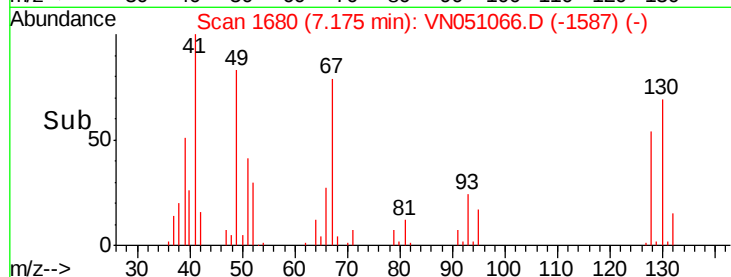
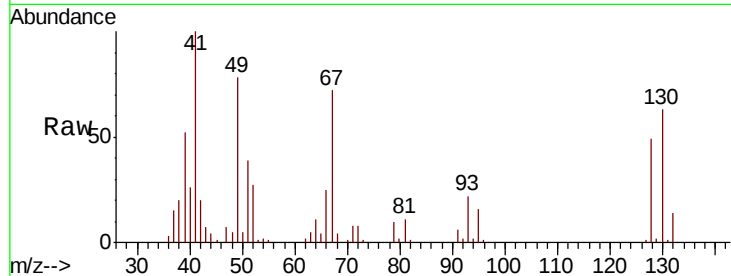
#41
Methacrylonitrile
Concen: 19.55 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	41	Resp	63836
Ion	Ratio	Lower	Upper
41	100		
39	61.5	51.3	76.9
67	95.0	78.5	117.7
52	37.6	29.0	43.6

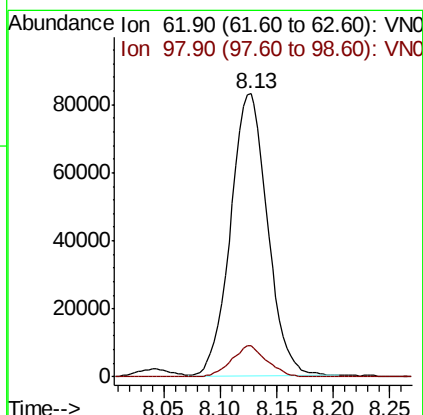
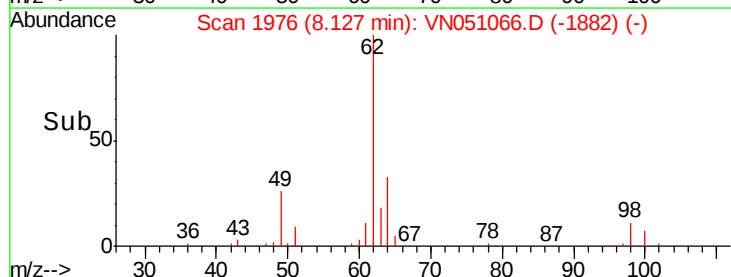
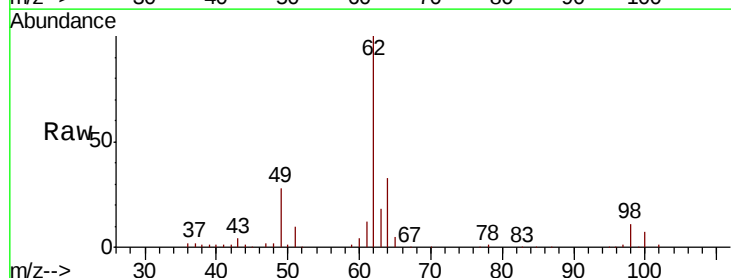
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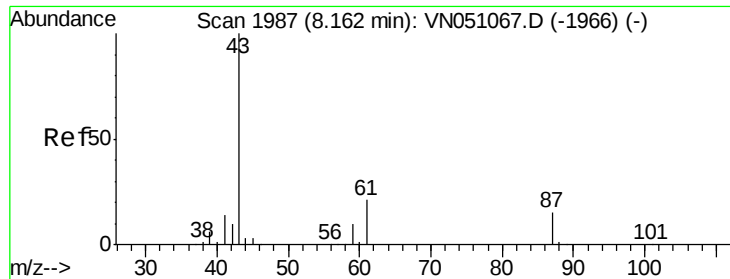
MMDadoda
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#42
1,2-Dichloroethane
Concen: 19.68 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	62	Resp	188855
Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	21.0





#43

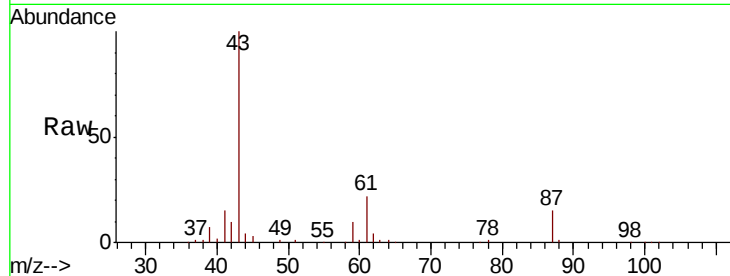
Isopropyl Acetate
 Concen: 20.49 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

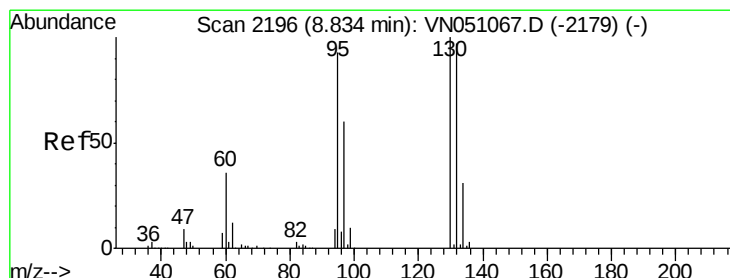
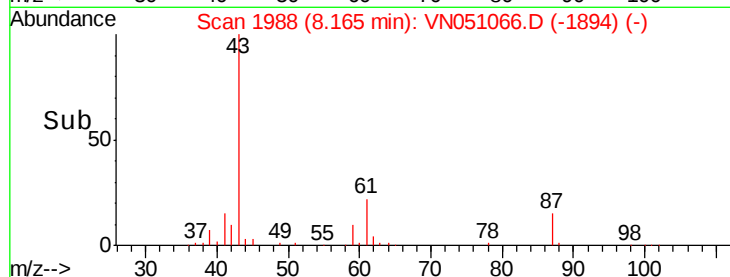
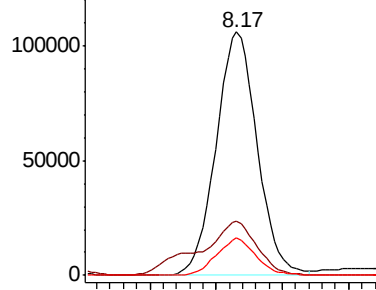
Tot Ion	Ratio	Lower	Upper
43	100		
61	30.6	25.0	37.6
87	14.6	11.8	17.8

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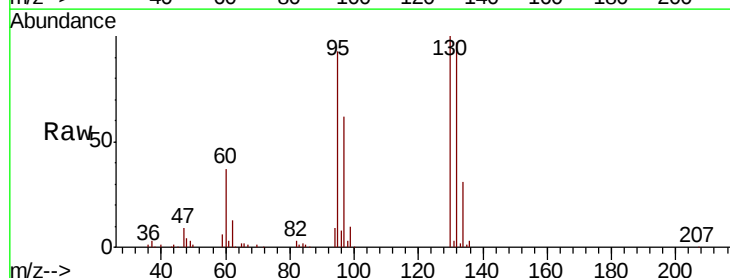
Abundance Ion 43.00 (42.70 to 43.70): VN051066.D (-1987) (-)



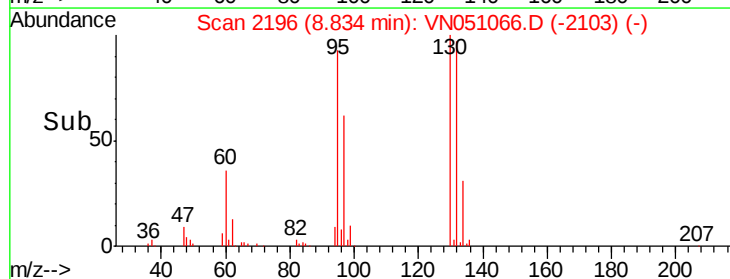
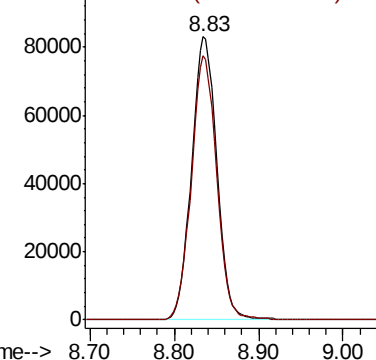
#44

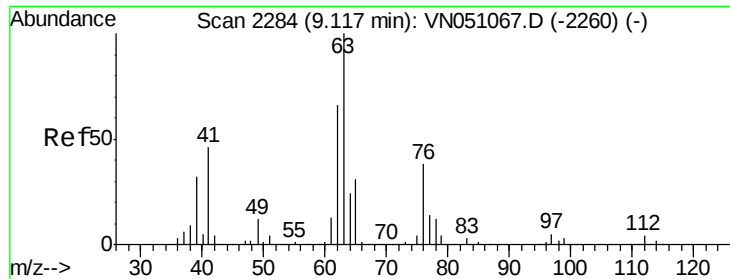
Trichloroethene
 Concen: 19.22 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.2	0.0	186.2



Abundance Ion 129.80 (129.50 to 130.50): VN051066.D (-2196) (-)





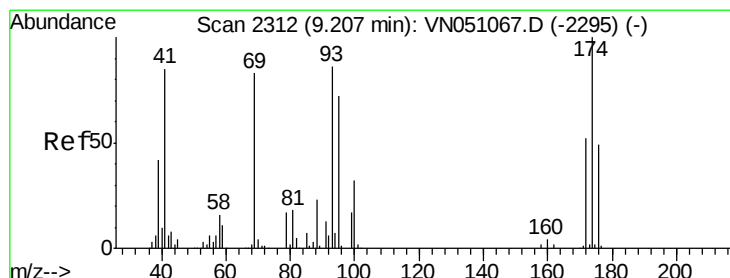
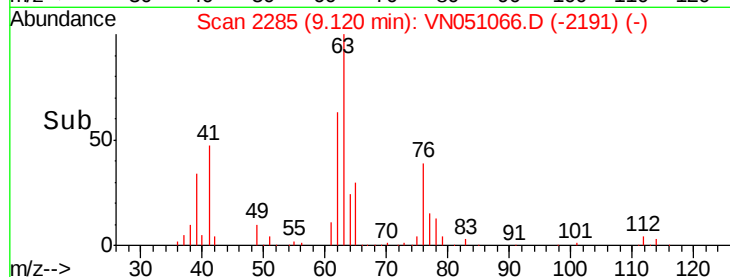
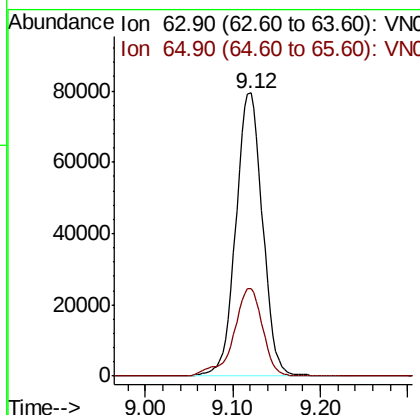
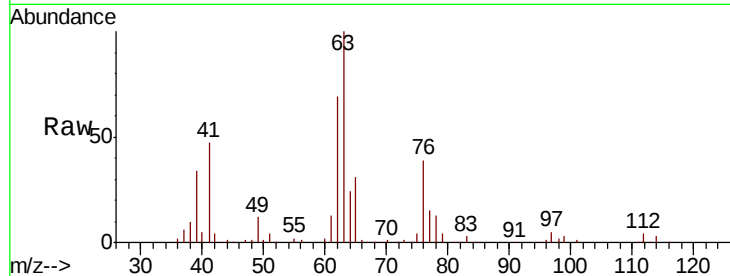
#45
 1,2-Dichloropropane
 Concen: 19.78 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion: 63 Resp: 168332
 Ion Ratio Lower Upper
 63 100
 65 31.1 24.7 37.1

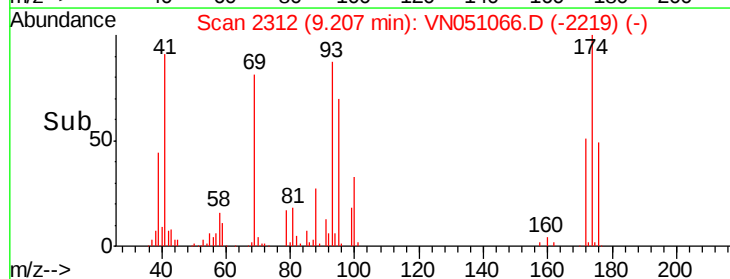
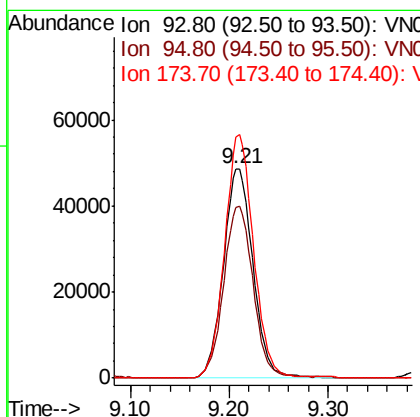
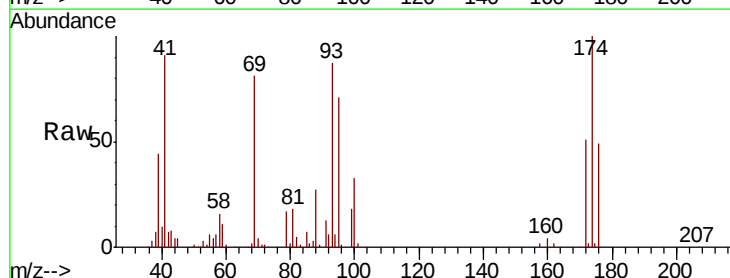
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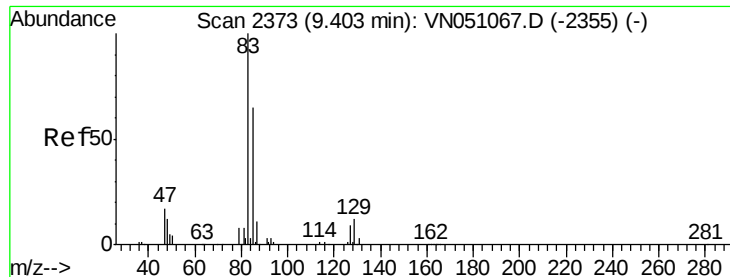
MMDadoda
 9/11/2018 9:40:15 AM



#46
 Dibromomethane
 Concen: 19.69 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion: 93 Resp: 102223
 Ion Ratio Lower Upper
 93 100
 95 82.1 66.8 100.2
 174 113.6 93.3 139.9





#47

Bromodichloromethane

Concen: 19.75 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

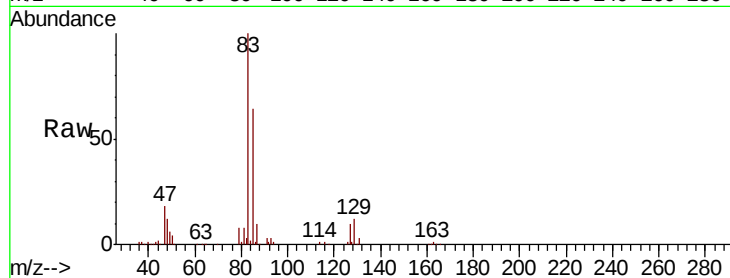
ClientSampled :

VSTDIC020

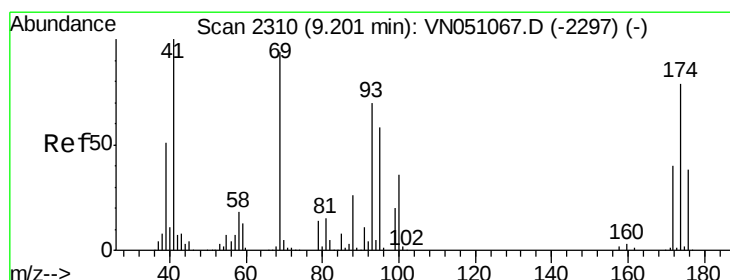
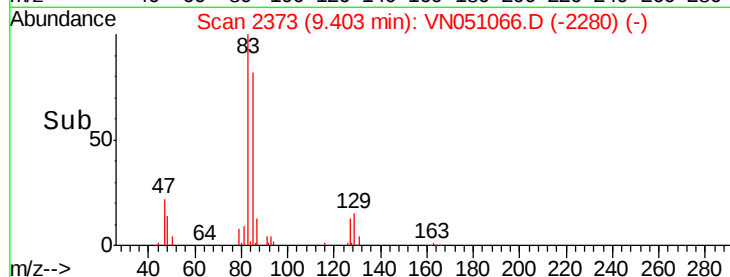
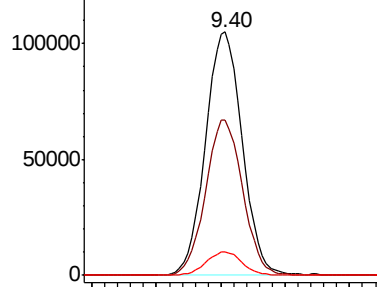
Tot Ion:	83	Resp:	208443
Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.3	78.5
127	9.7	7.5	11.3

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Abundance Ion 82.90 (82.60 to 83.60): VN051066.D (-2280) (-)



#48

Methyl methacrylate

Concen: 20.06 ug/l

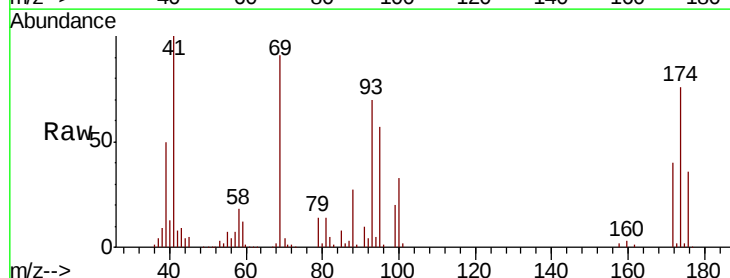
RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

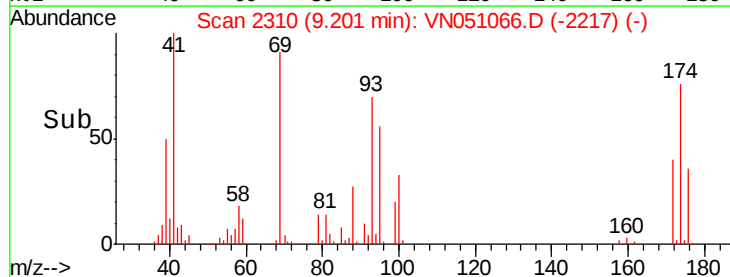
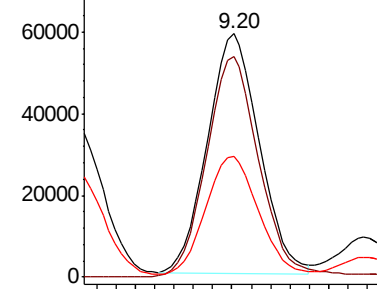
Lab File: VN051066.D

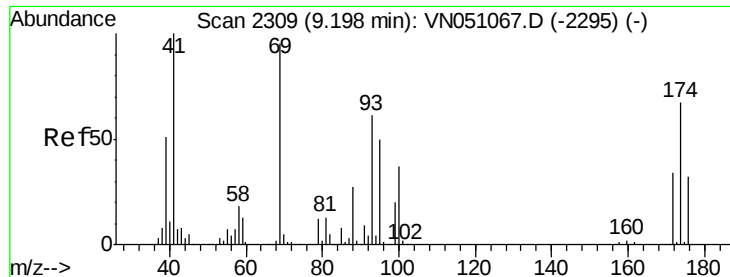
Acq: 10 Sep 2018 8:58

Tgt Ion:	41	Resp:	109174
Ion	Ratio	Lower	Upper
41	100		
69	94.9	77.7	116.5
39	51.9	41.6	62.4



Abundance Ion 41.00 (40.70 to 41.70): VN051066.D (-2217) (-)





#49

1,4-Dioxane

Concen: 422.05 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

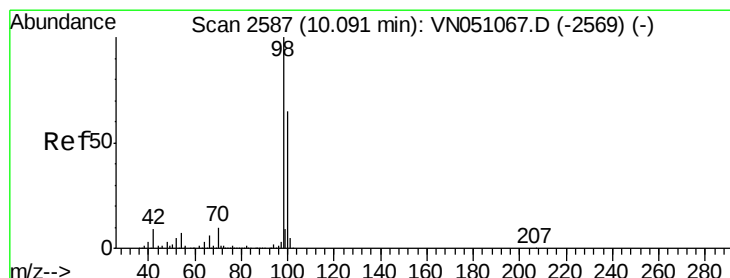
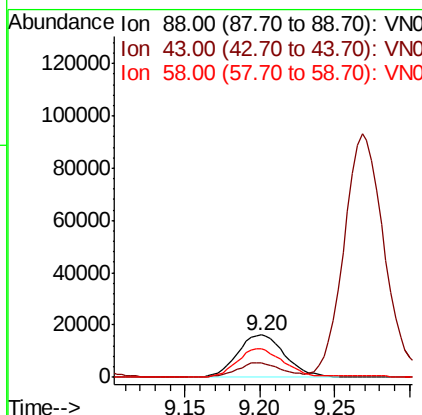
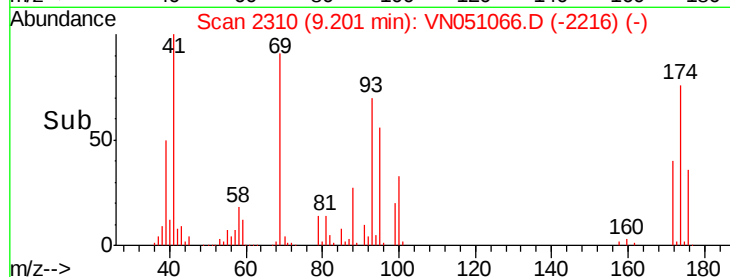
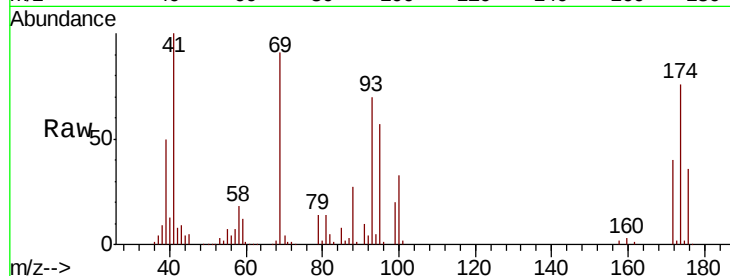
ClientSampled :

VSTDIC020

Tot Ion:	88	Resp:	36017
Ion	Ratio	Lower	Upper
88	100		
43	31.5	23.7	35.5
58	65.7	54.6	82.0

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#50

Toluene-d8

Concen: 18.78 ug/l

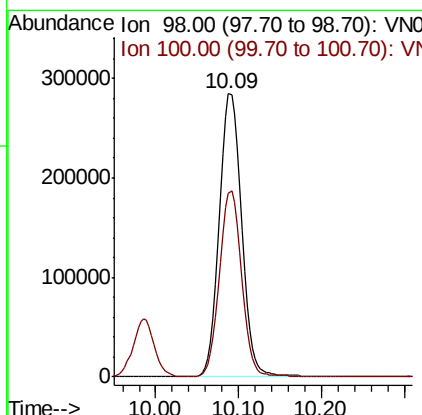
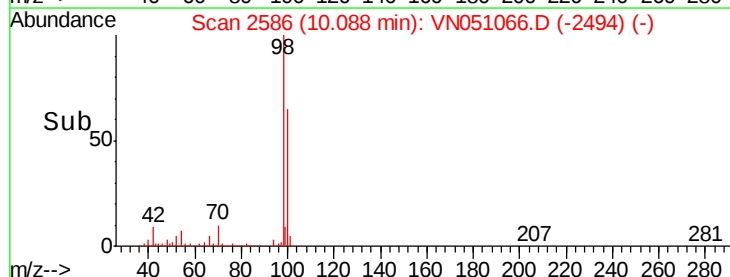
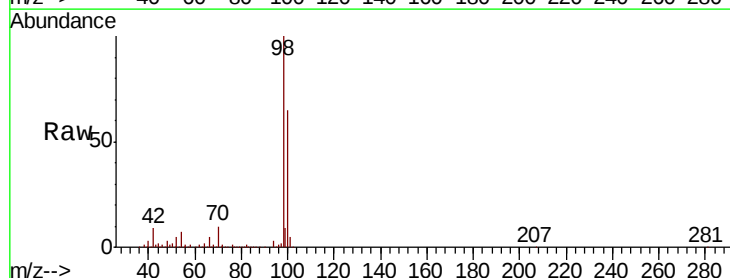
RT: 10.09 min Scan# 2586

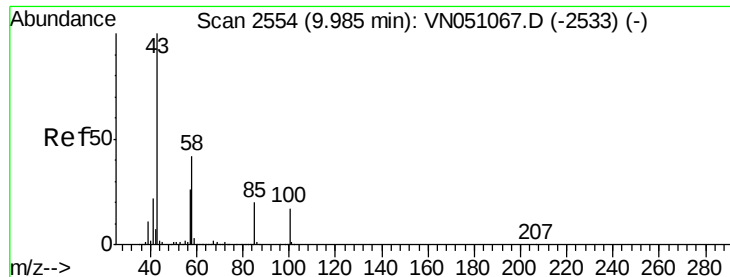
Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Tgt Ion:	98	Resp:	532914
Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0





#51

4-Methyl-2-Pentanone

Concen: 105.09 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 648990

Ion Ratio Lower Upper

43 100

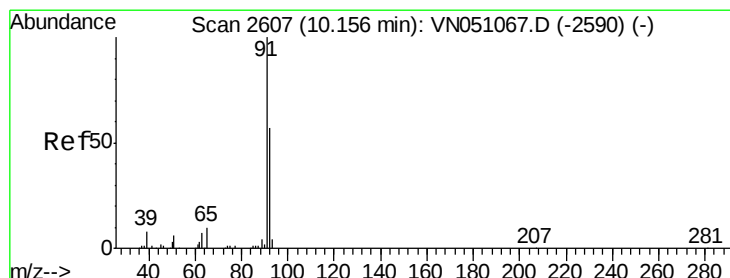
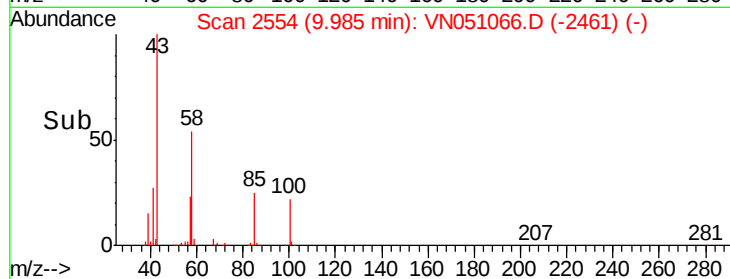
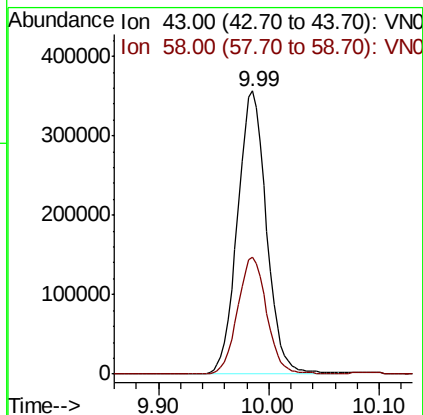
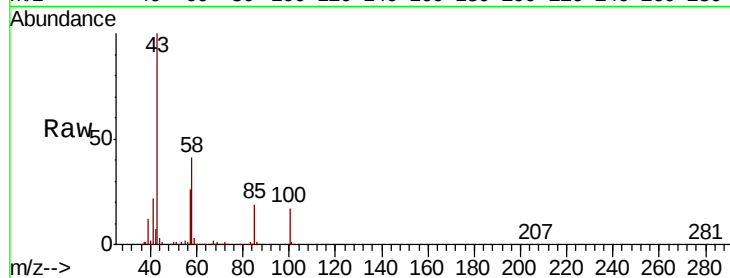
58 41.5 33.5 50.3

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#52

Toluene

Concen: 19.82 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051066.D

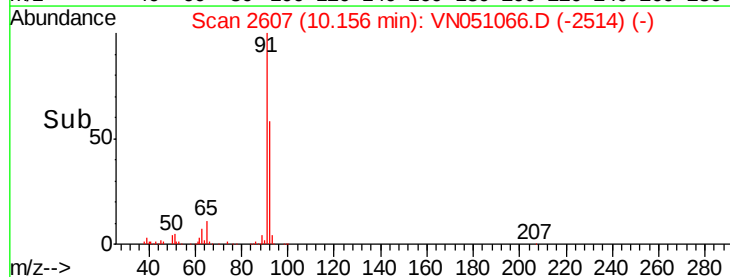
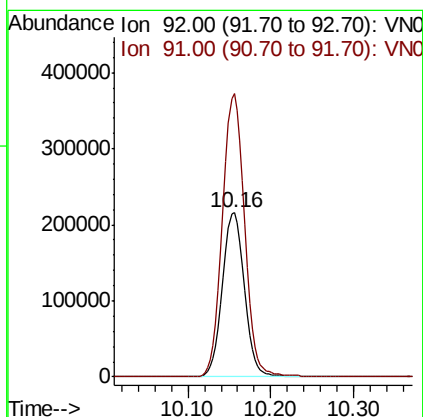
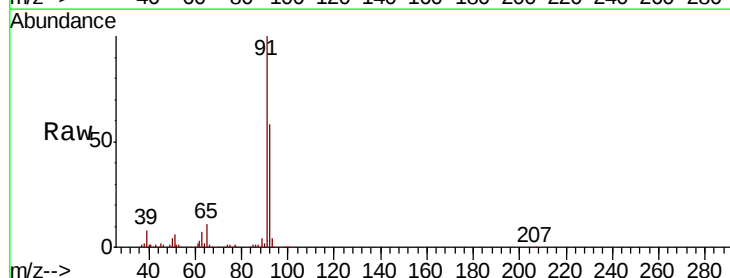
Acq: 10 Sep 2018 8:58

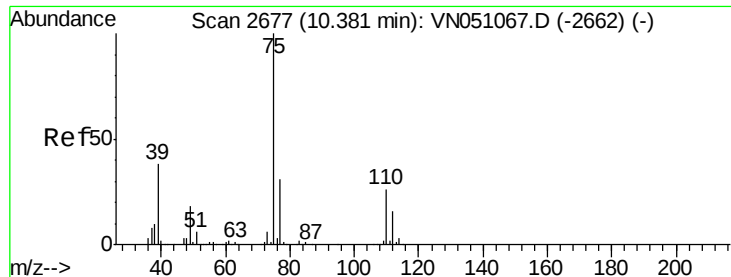
Tgt Ion: 92 Resp: 397875

Ion Ratio Lower Upper

92 100

91 173.8 139.5 209.3





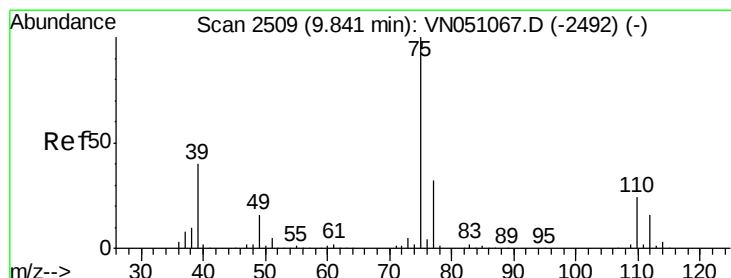
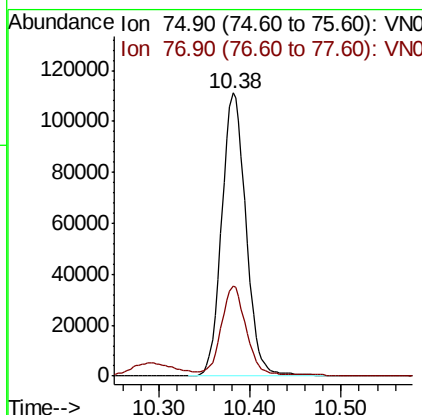
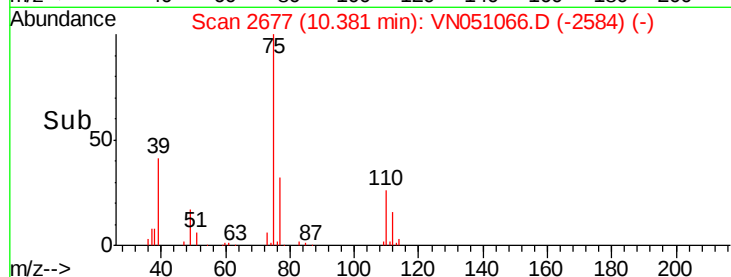
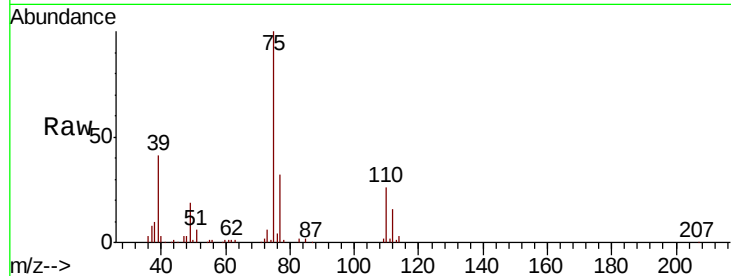
#53
t-1,3-Dichloropropene
Concen: 19.50 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.3	37.9

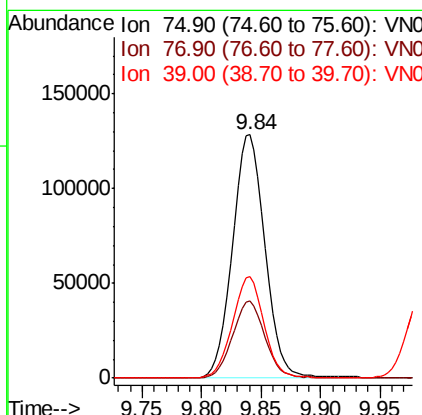
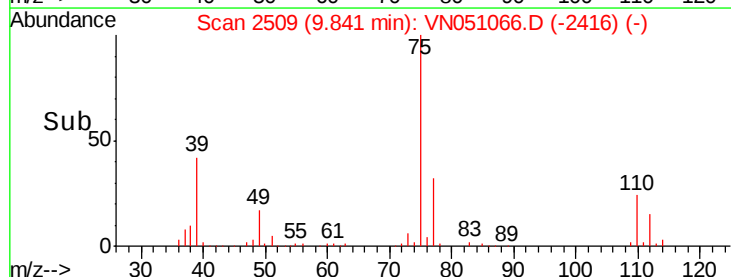
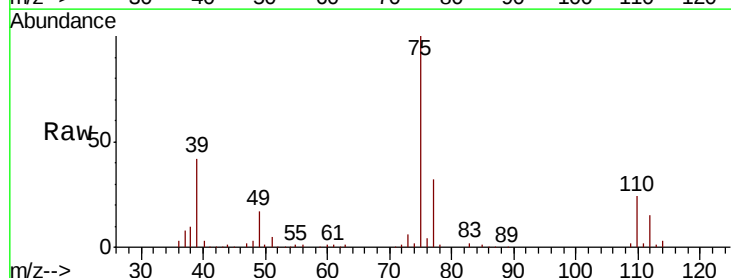
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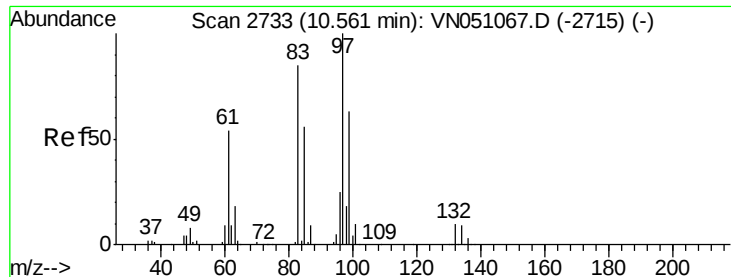
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 19.66 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.7	38.5
39	41.8	31.9	47.9





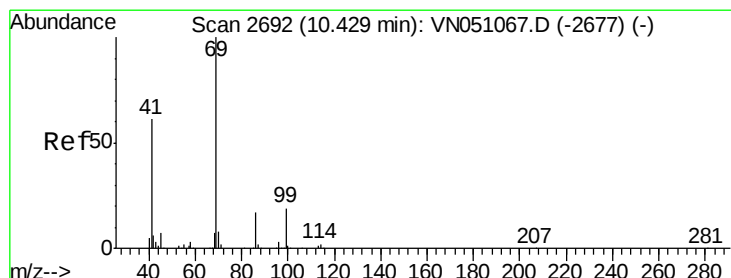
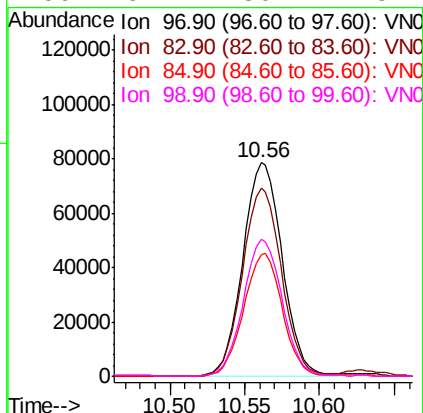
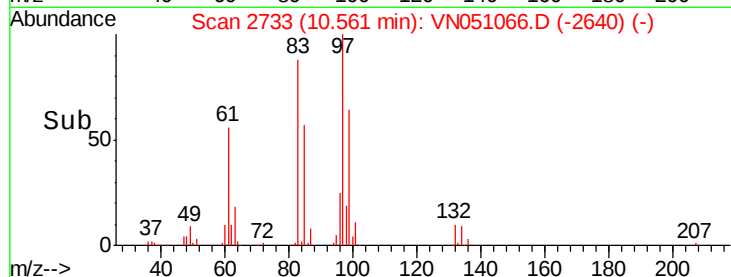
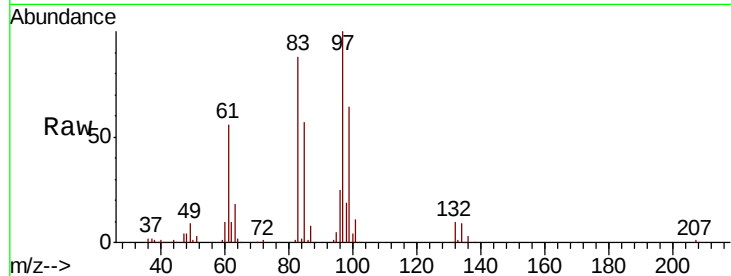
#55
 1,1,2-Trichloroethane
 Concen: 19.78 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	144274
Ion	Ratio	Lower	Upper
97	100		
83	87.8	68.2	102.2
85	57.0	44.8	67.2
99	64.2	50.2	75.4

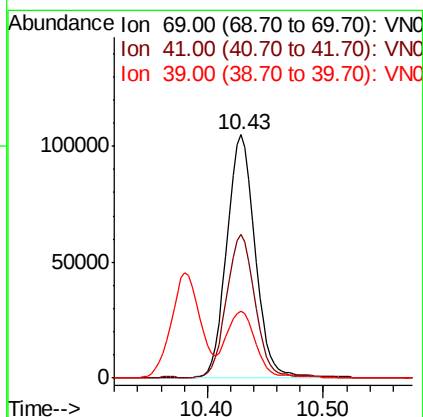
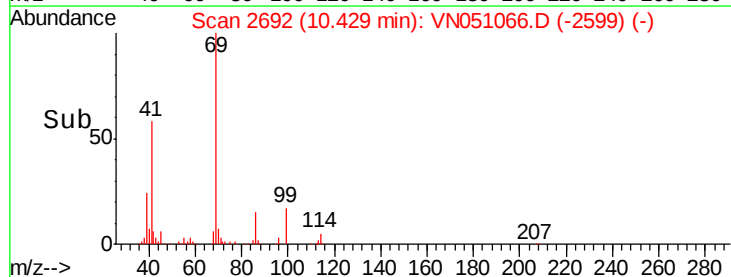
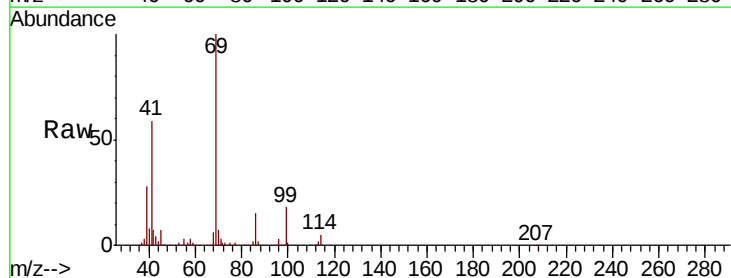
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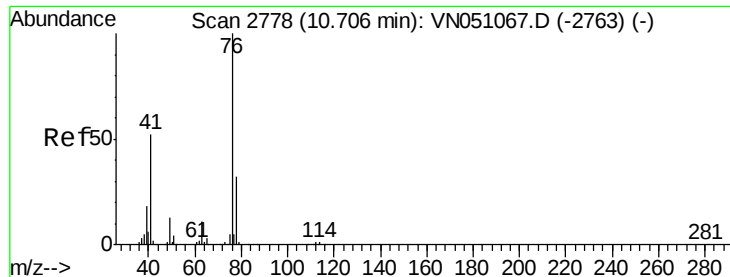
MMDadoda
 9/11/2018 9:40:15 AM



#56
 Ethyl methacrylate
 Concen: 20.29 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion:	69	Resp:	177167
Ion	Ratio	Lower	Upper
69	100		
41	59.4	47.8	71.8
39	28.6	23.0	34.4





#57

1,3-Dichloropropane

Concen: 19.95 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 76 Resp: 241285

Ion Ratio Lower Upper

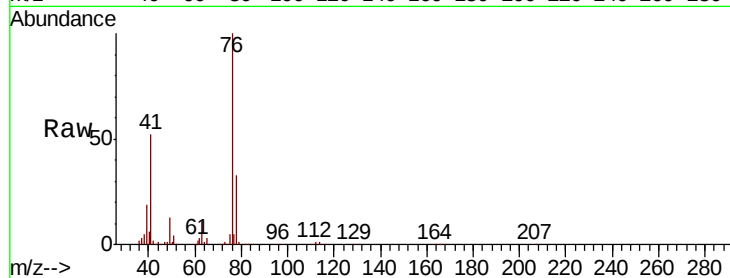
76 100

78 32.4 26.1 39.1

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Abundance Ion 75.90 (75.60 to 76.60): VN051066.D (-2763) (-)

Ion 77.90 (77.60 to 78.60): VN051066.D (-2763) (-)

10.71

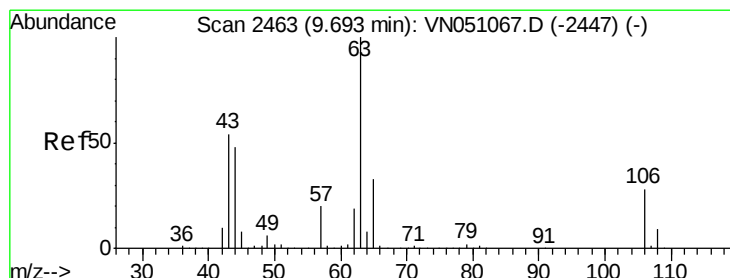
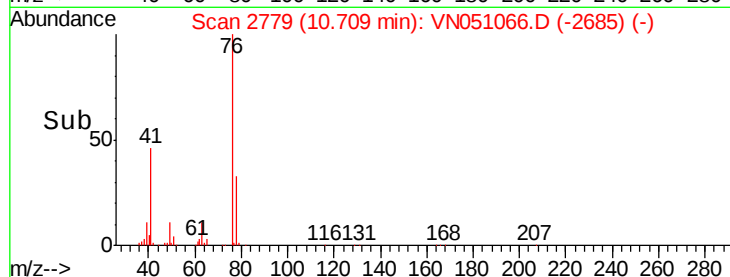
150000

100000

50000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 98.67 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051066.D

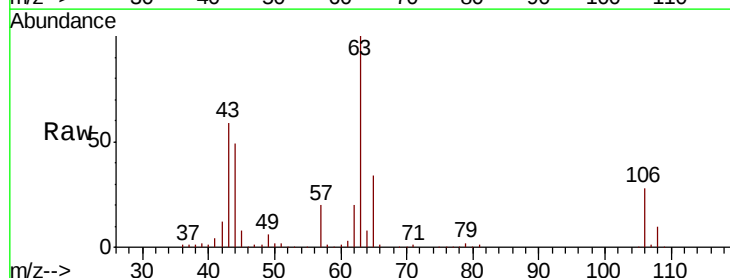
Acq: 10 Sep 2018 8:58

Tgt Ion: 63 Resp: 352052

Ion Ratio Lower Upper

63 100

106 27.9 22.5 33.7



Abundance Ion 62.90 (62.60 to 63.60): VN051066.D (-2370) (-)

Ion 105.90 (105.60 to 106.60): VN051066.D (-2370) (-)

9.70

200000

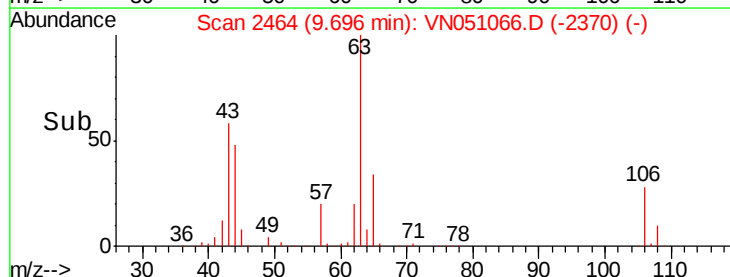
150000

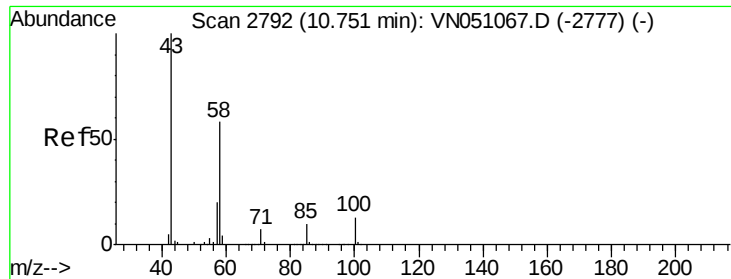
100000

50000

0

Time--> 9.60 9.70 9.80





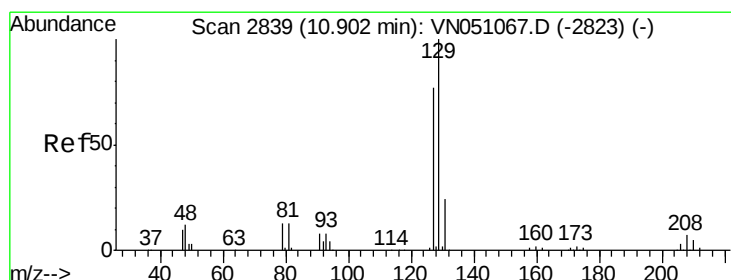
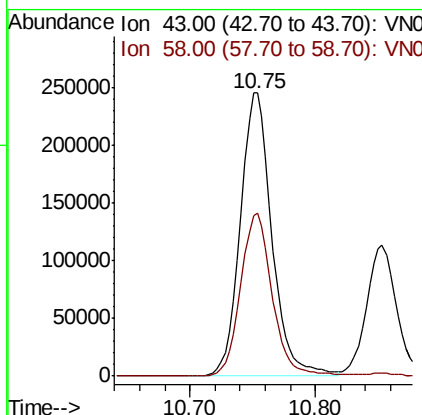
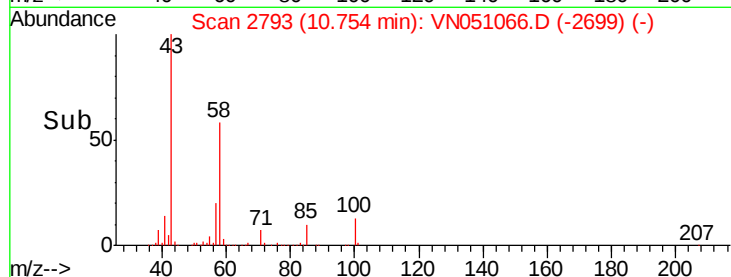
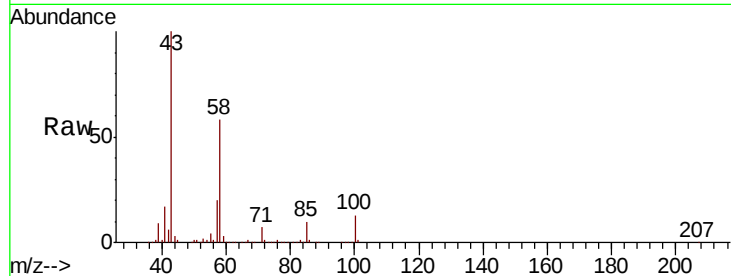
#59
2-Hexanone
Concen: 102.60 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 43 Resp: 429688
Ion Ratio Lower Upper
43 100
58 57.8 29.3 88.0

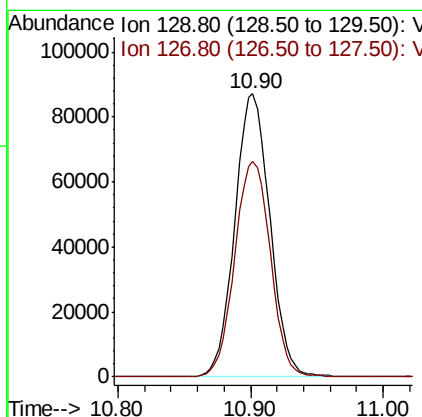
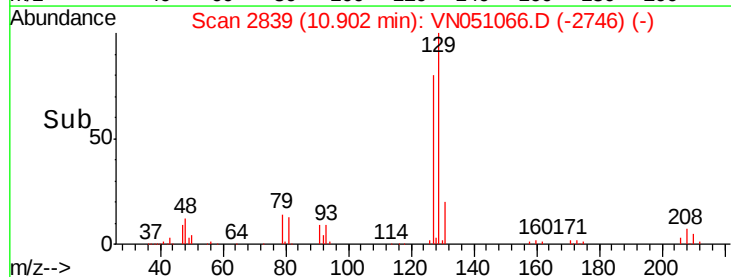
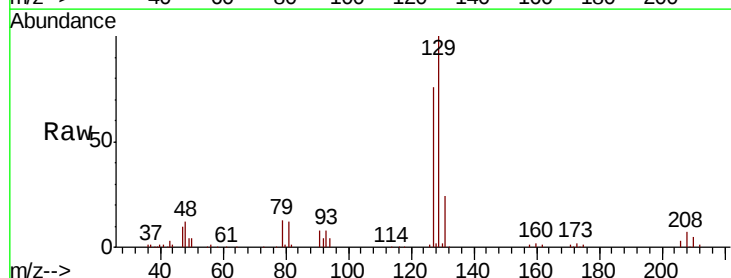
Manual Integrations
APPROVED

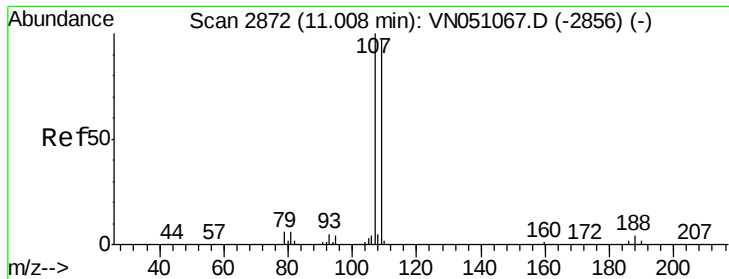
MMDadoda
9/11/2018 9:40:15 AM



#60
Dibromochloromethane
Concen: 19.48 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion: 129 Resp: 160124
Ion Ratio Lower Upper
129 100
127 77.7 38.5 115.5





#61

1,2-Dibromoethane

Concen: 19.66 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 140168

Ion Ratio Lower Upper

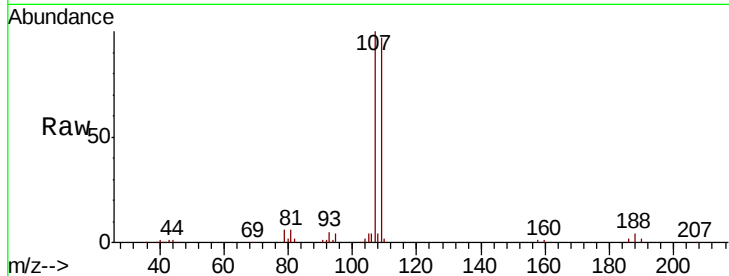
107 100

109 95.7 76.0 114.0

Manual Integrations
APPROVED

MMDadoda

9/11/2018 9:40:15 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

80000

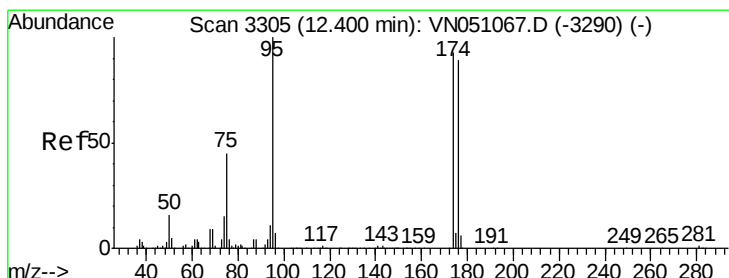
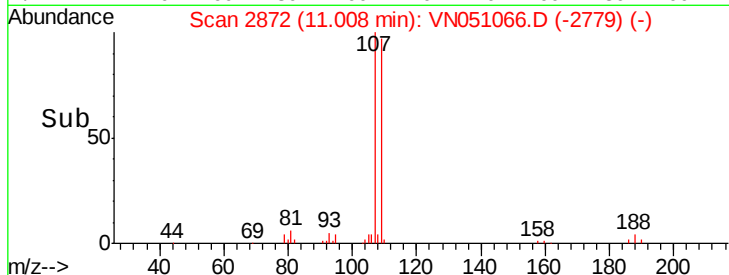
60000

40000

20000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 18.09 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

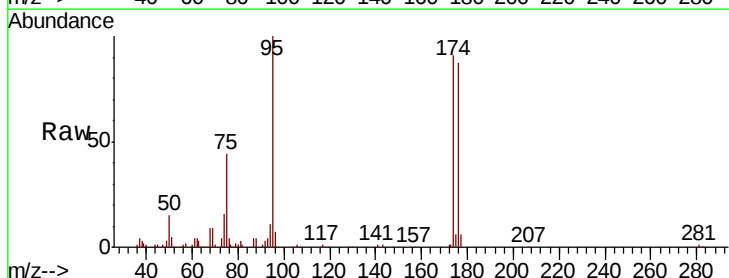
Tgt Ion: 95 Resp: 169866

Ion Ratio Lower Upper

95 100

174 91.0 0.0 184.8

176 87.8 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

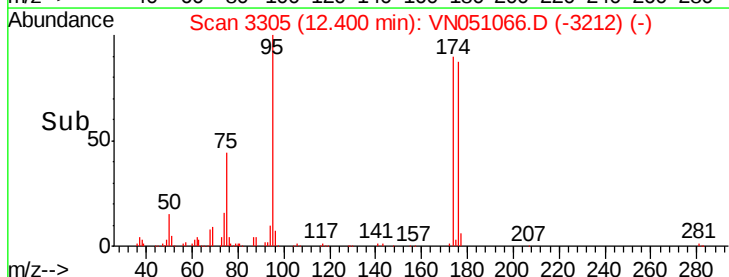
12.40

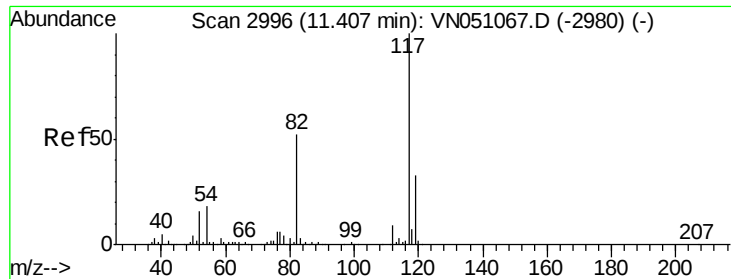
100000

50000

0

Time--> 12.35 12.40 12.45





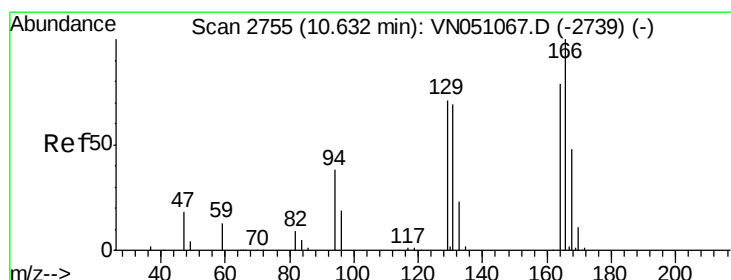
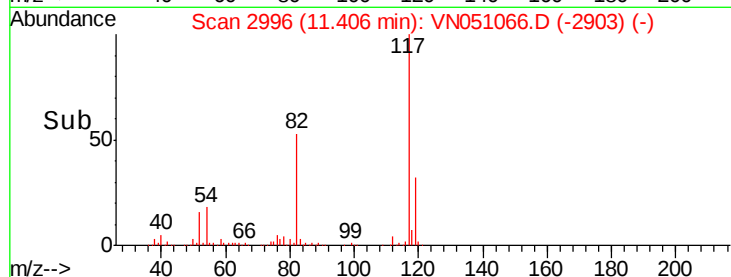
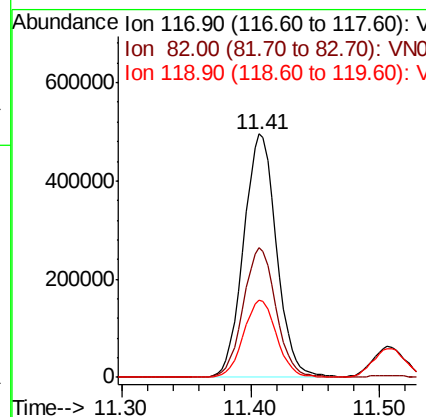
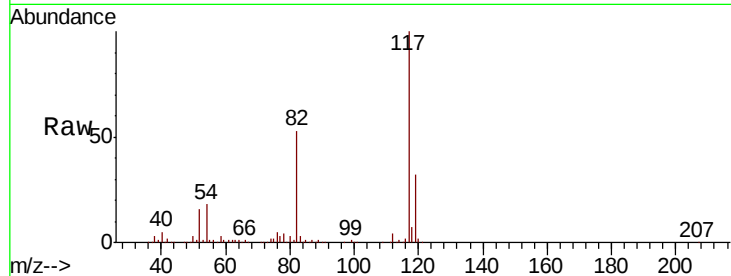
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	880611		
82	53.3	41.8	62.6	
119	31.9	26.2	39.2	

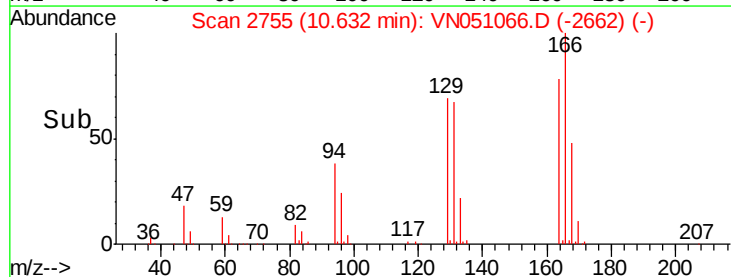
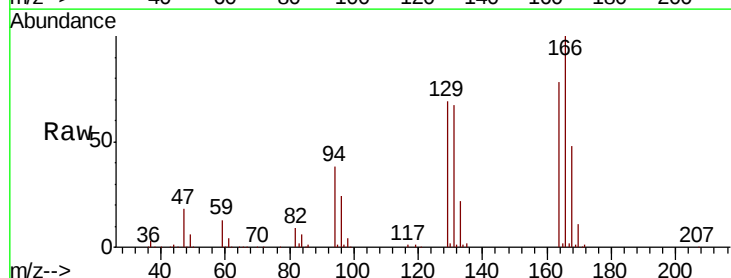
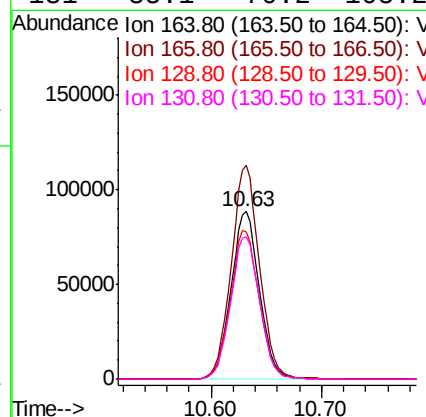
Manual Integrations
APPROVED

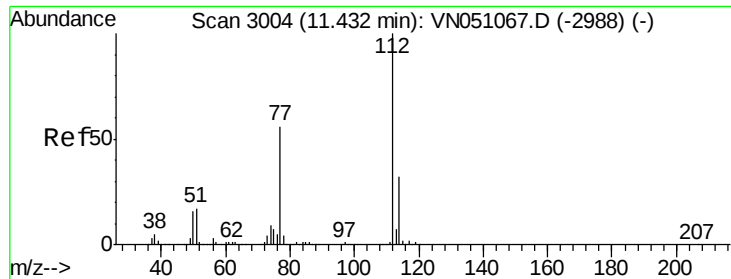
MMDadoda
9/11/2018 9:40:15 AM



#64
Tetrachloroethene
Concen: 19.62 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	157618		
166	127.8	101.3	151.9	
129	88.1	72.2	108.2	
131	85.1	70.2	105.2	





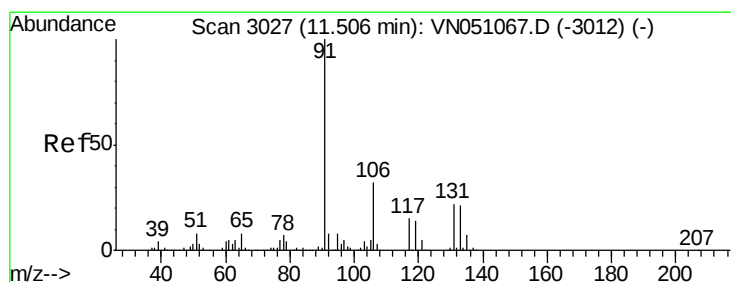
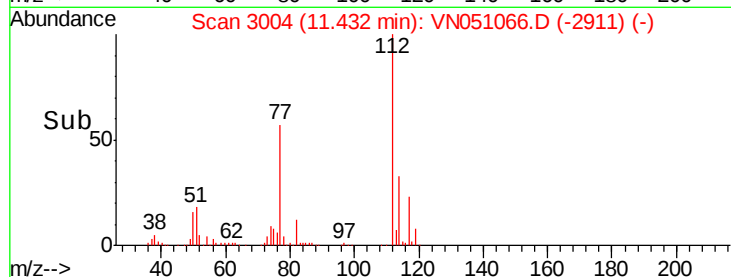
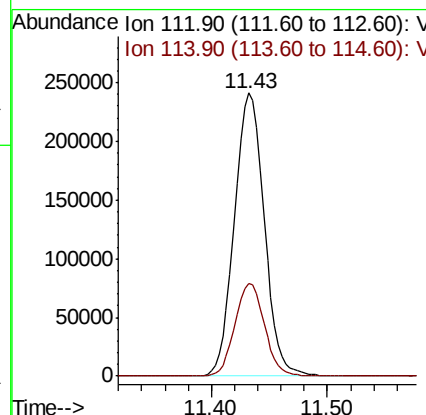
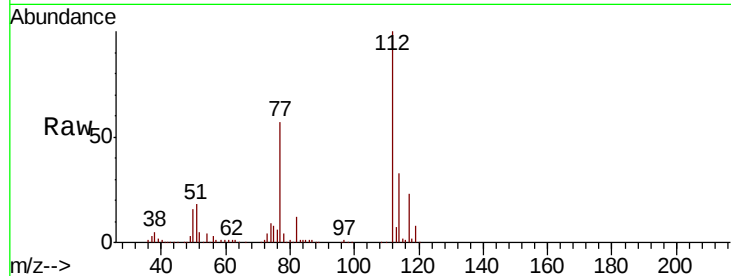
#65
Chlorobenzene
Concen: 19.31 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
112	100	428695		
114	32.6	25.8	38.6	

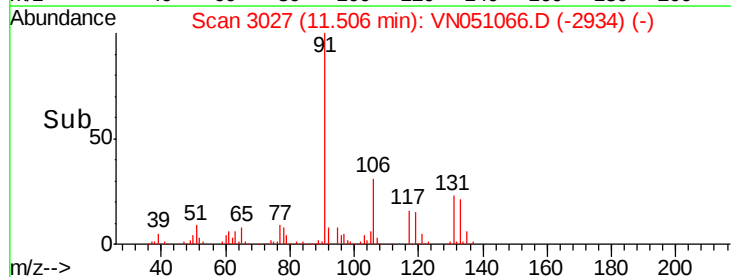
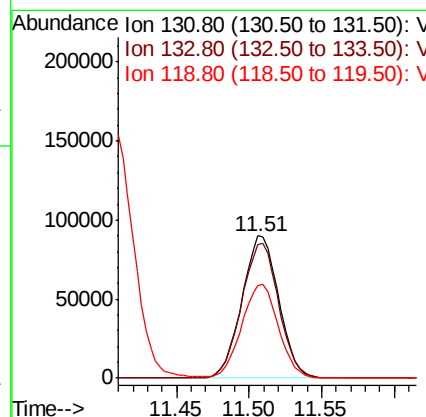
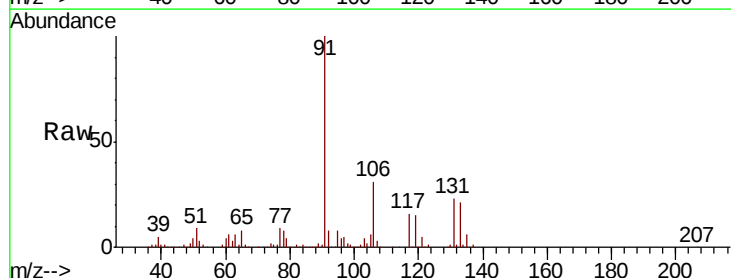
Manual Integrations
APPROVED

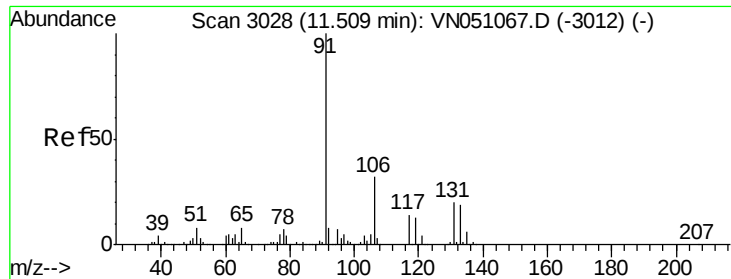
MMDadoda
9/11/2018 9:40:15 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.87 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	158761		
133	95.6	47.5	142.6	
119	65.8	33.2	99.6	





#67

Ethyl Benzene

Concen: 19.78 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 711190

Ion Ratio Lower Upper

91 100

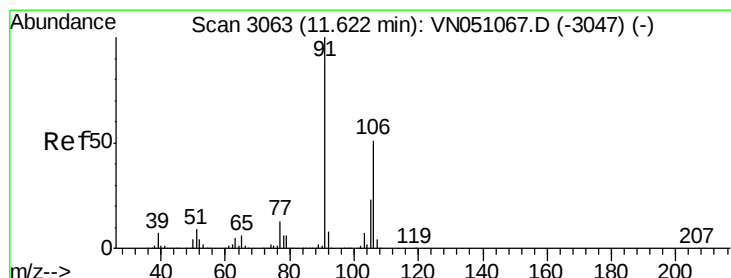
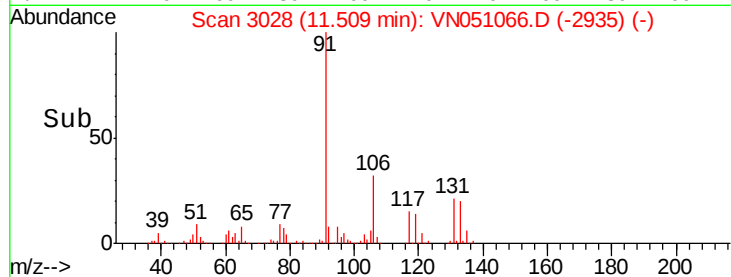
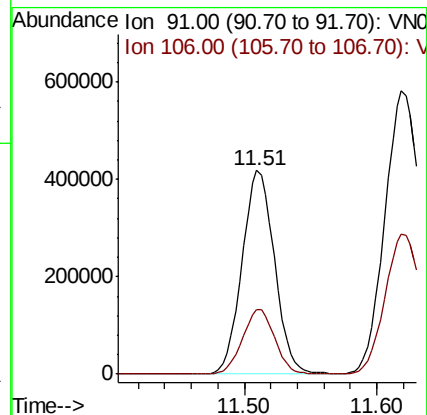
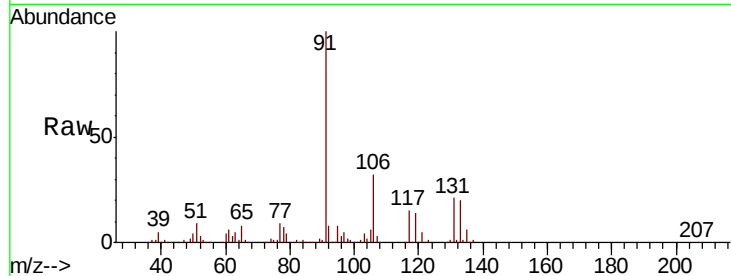
106 31.9 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

9/11/2018 9:40:15 AM



#68

m/p-Xylenes

Concen: 40.32 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN051066.D

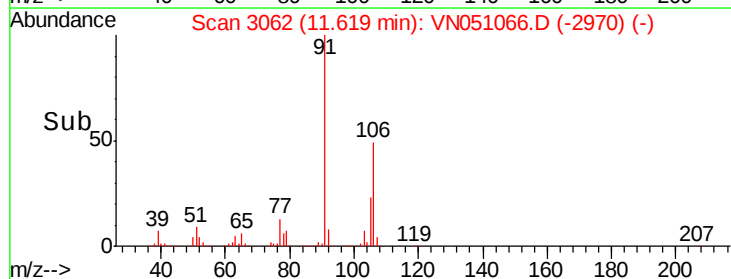
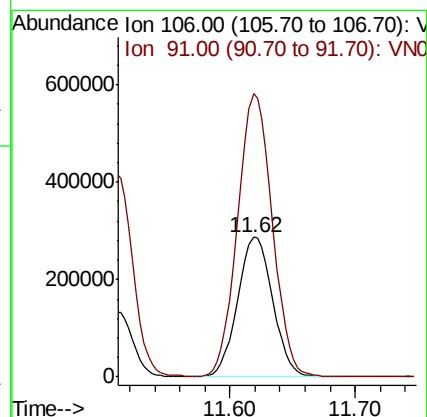
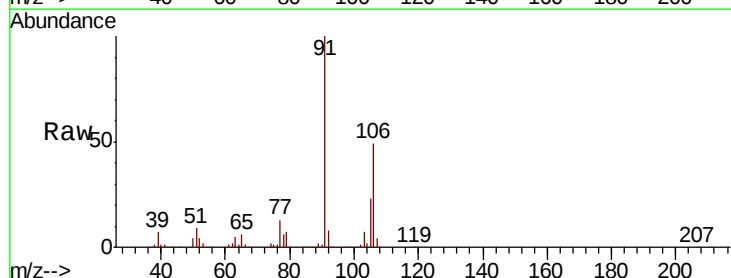
Acq: 10 Sep 2018 8:58

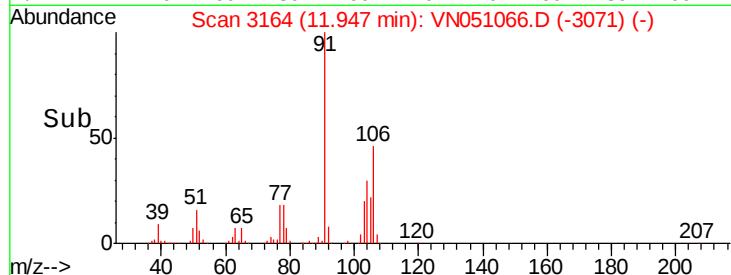
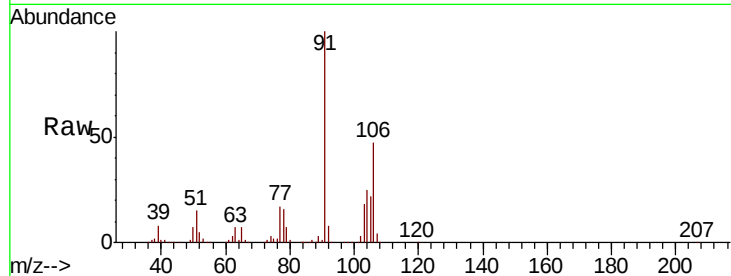
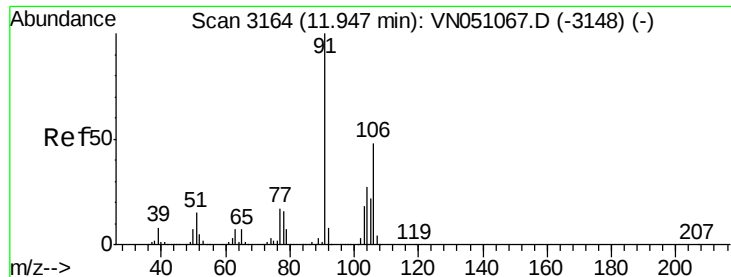
Tgt Ion: 106 Resp: 556927

Ion Ratio Lower Upper

106 100

91 201.3 159.8 239.6





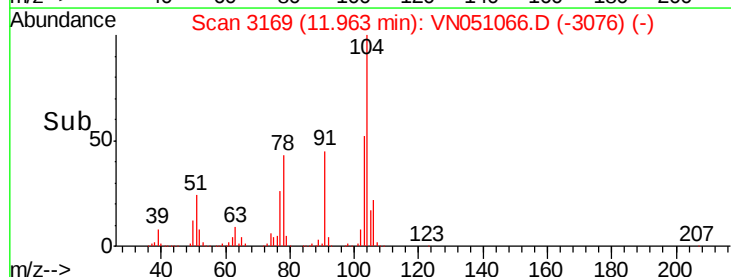
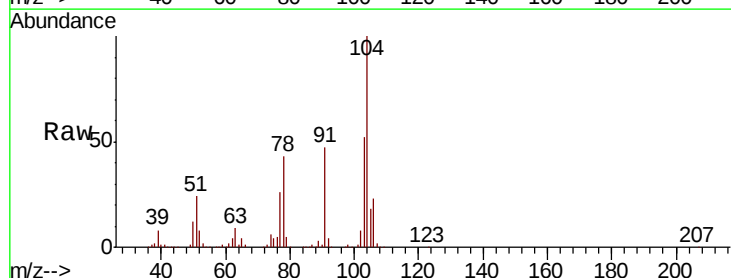
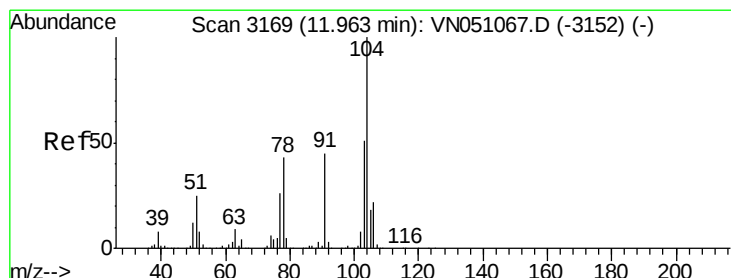
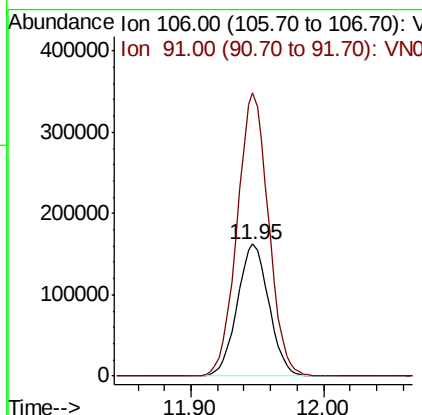
#69
o-Xylene
Concen: 20.16 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tot Ion	Ratio	Resp	Lower	Upper
106	100	269591		
91	211.9	105.1	315.1	

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

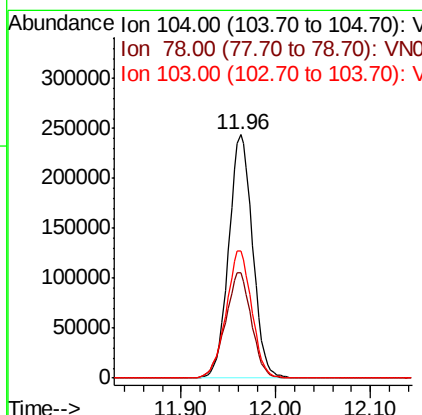
Manual Integrations
APPROVED

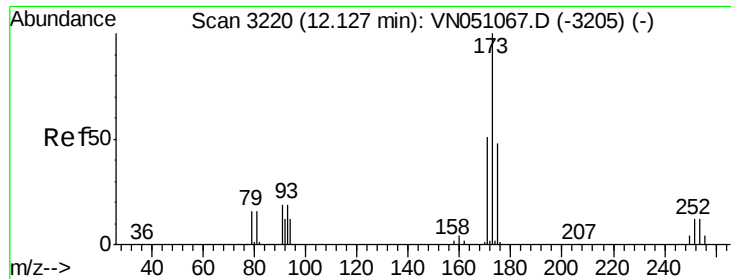
MMDadoda
9/11/2018 9:40:15 AM



#70
Styrene
Concen: 20.58 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	426989		
78	47.3	37.7	56.5	
103	56.0	44.6	67.0	





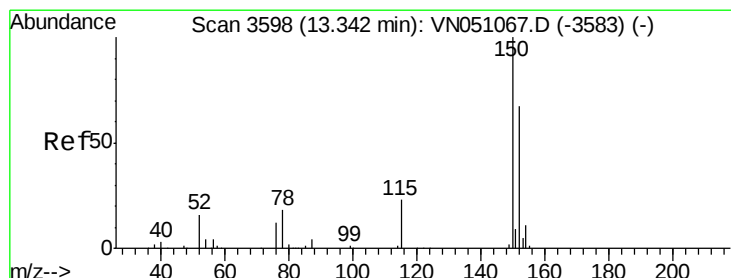
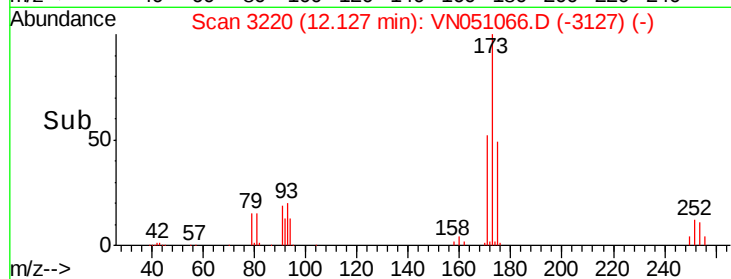
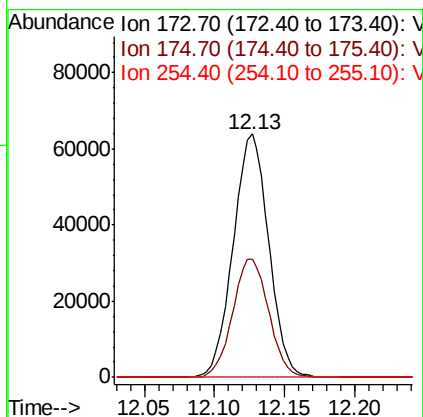
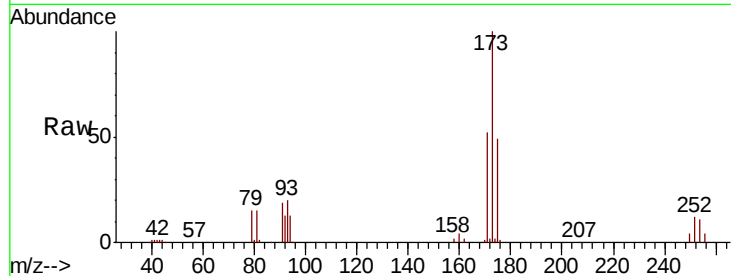
#71
Bromoform
Concen: 20.05 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.3	72.9
254	0.0	0.0	0.0

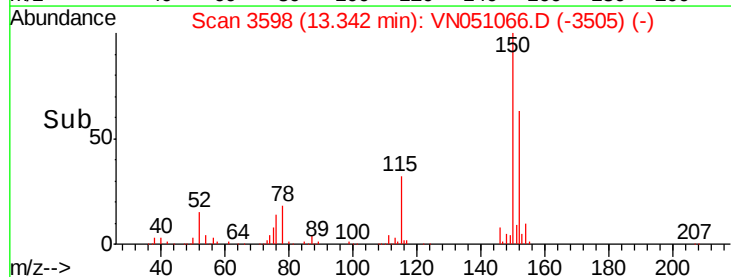
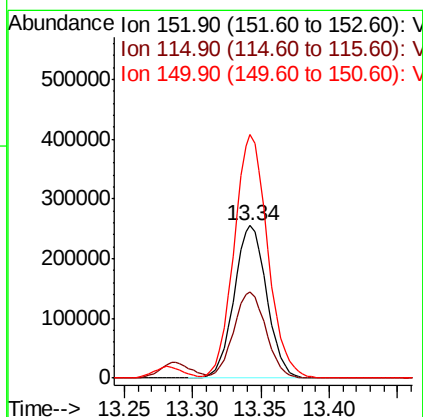
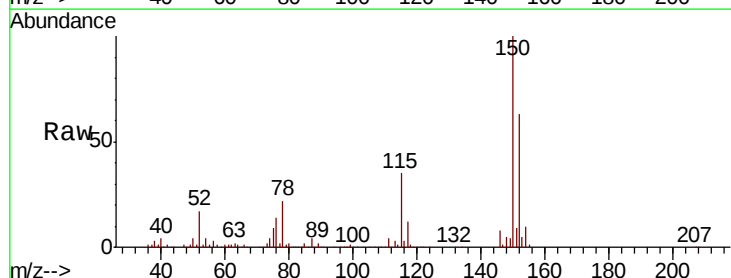
Manual Integrations
APPROVED

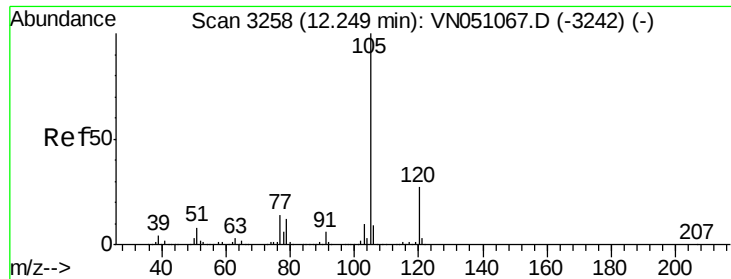
MMDadoda
9/11/2018 9:40:15 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.2	84.7
150	164.6	0.0	349.0





#73

Isopropylbenzene

Concen: 20.00 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 706334

Ion Ratio Lower Upper

105 100

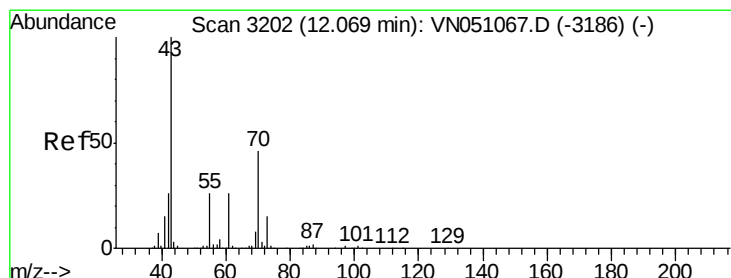
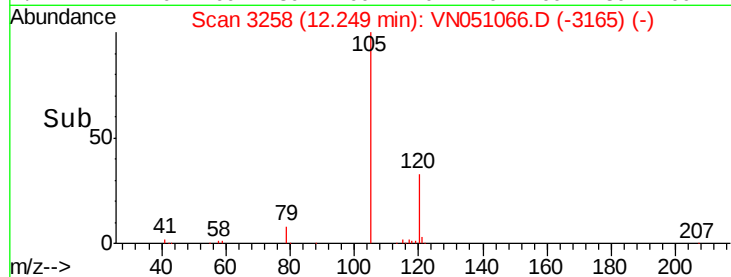
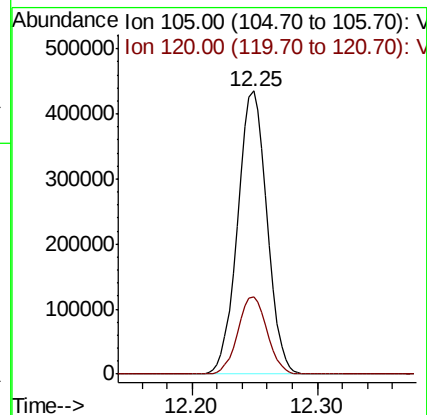
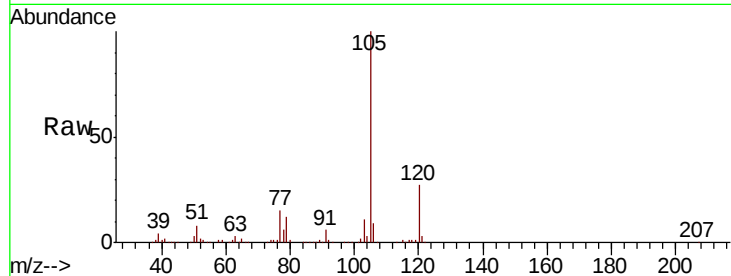
120 27.3 13.6 40.7

Manual Integrations

APPROVED

MMDadoda

9/11/2018 9:40:15 AM



#74

N-ethyl acetate

Concen: 19.84 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Tgt Ion: 43 Resp: 176311

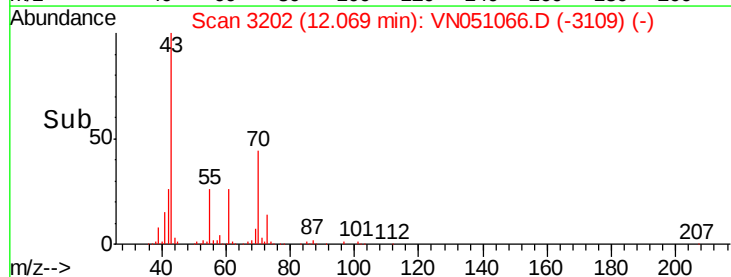
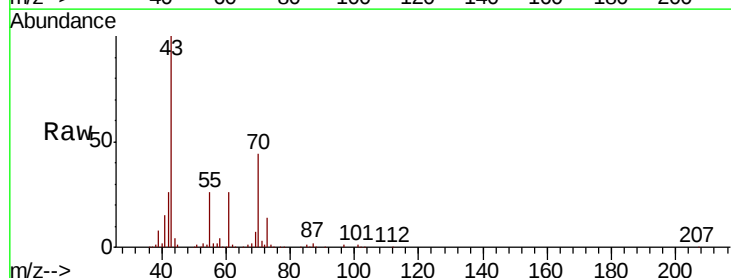
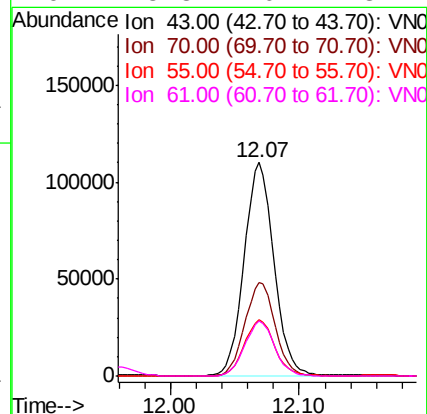
Ion Ratio Lower Upper

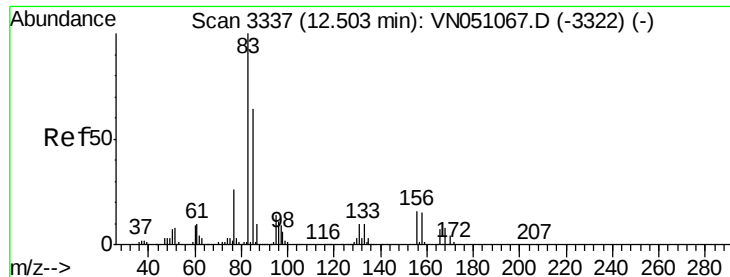
43 100

70 44.9 37.0 55.4

55 27.2 21.3 31.9

61 25.8 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 19.36 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 83 Resp: 182086
Ion Ratio Lower Upper

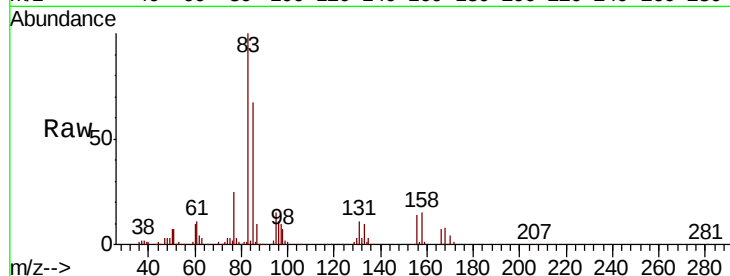
83 100

131 10.8 5.3 16.1

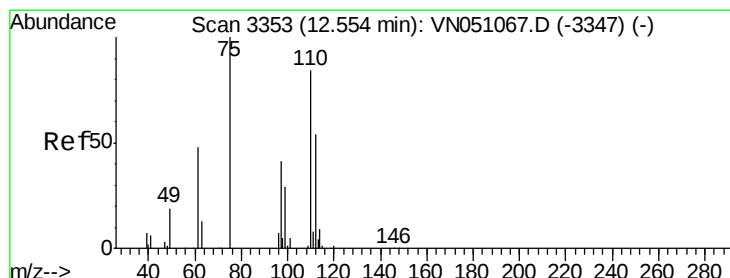
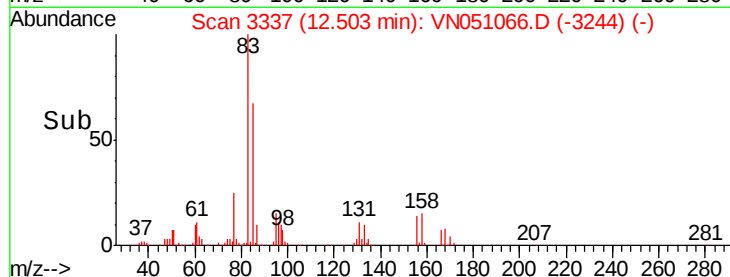
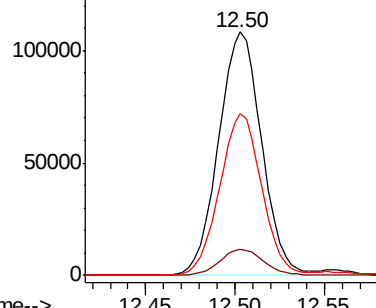
85 65.0 32.3 96.8

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 20.27 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

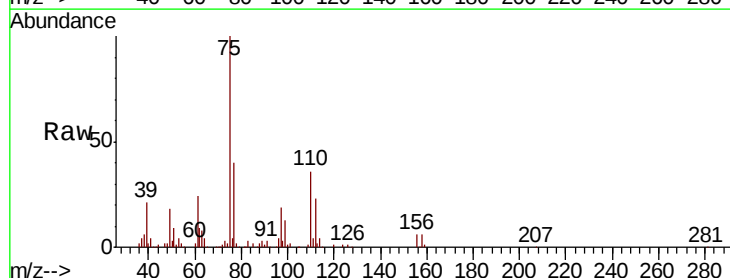
Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

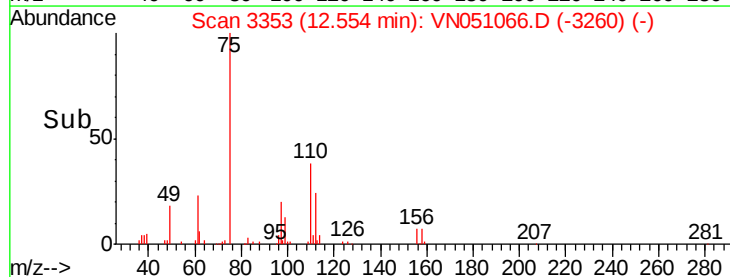
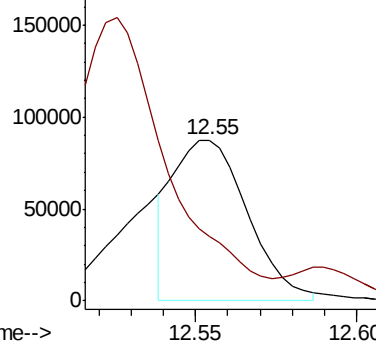
Tgt Ion: 75 Resp: 141981
Ion Ratio Lower Upper

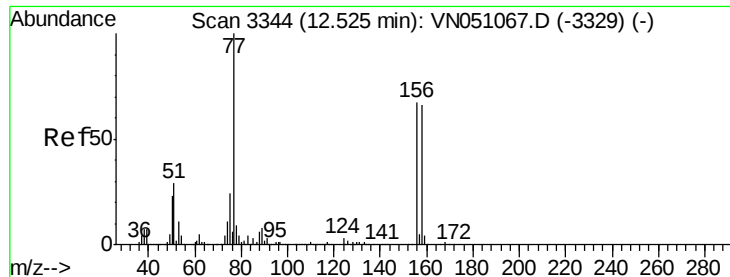
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 18.92 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

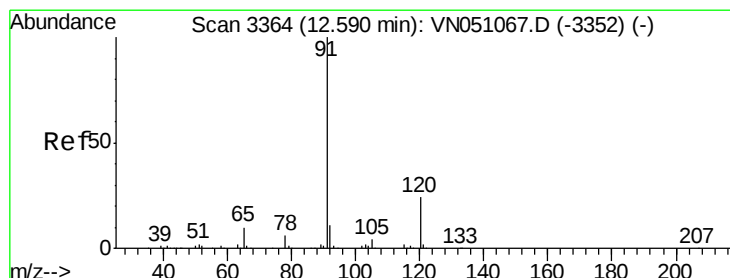
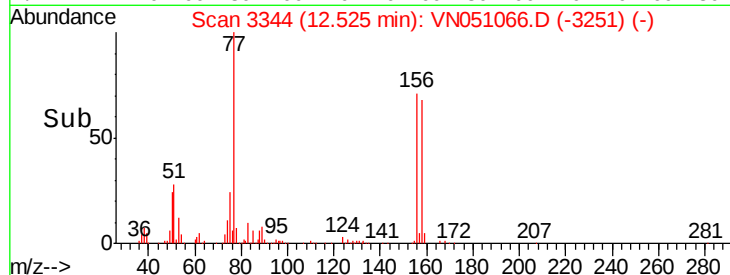
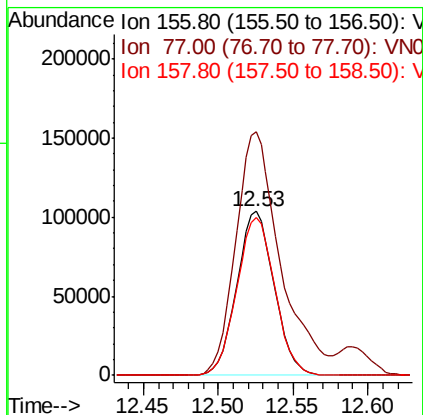
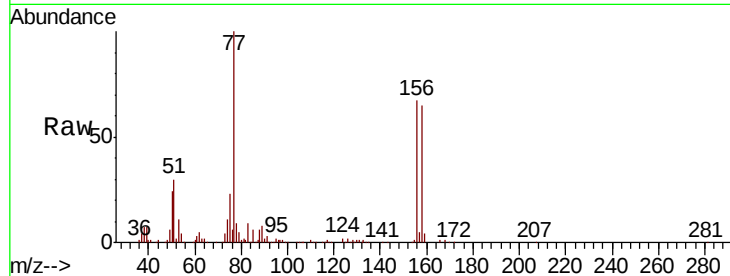
ClientSampled :

VSTDIC020

Tot Ion:	156	Resp:	179524
Ion Ratio	Lower	Upper	
156	100		
77	177.8	87.5	262.6
158	98.4	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 19.99 ug/l

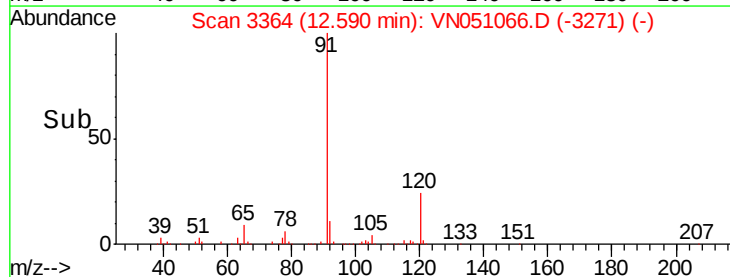
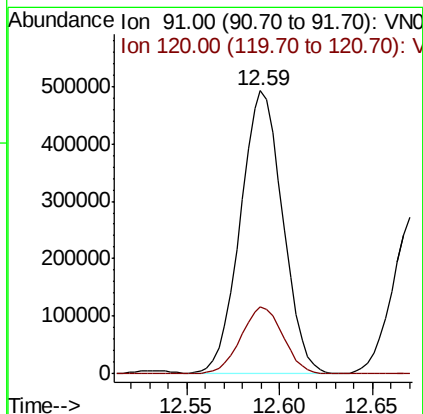
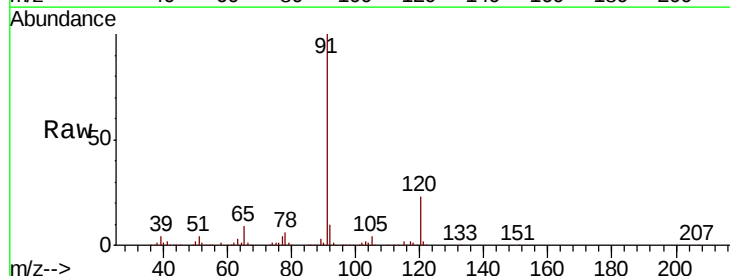
RT: 12.59 min Scan# 3364

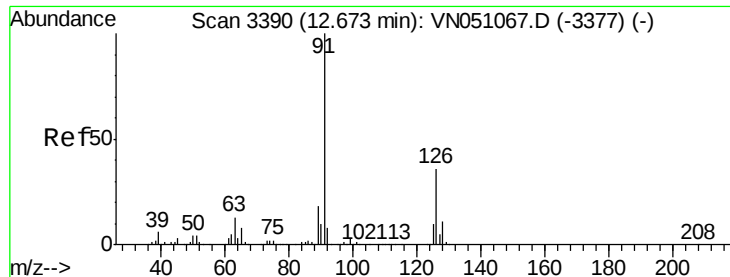
Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Tgt Ion:	91	Resp:	776211
Ion Ratio	Lower	Upper	
91	100		
120	23.7	12.0	36.0





#79

2-Chlorotoluene

Concen: 19.48 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 472602

Ion Ratio Lower Upper

91 100

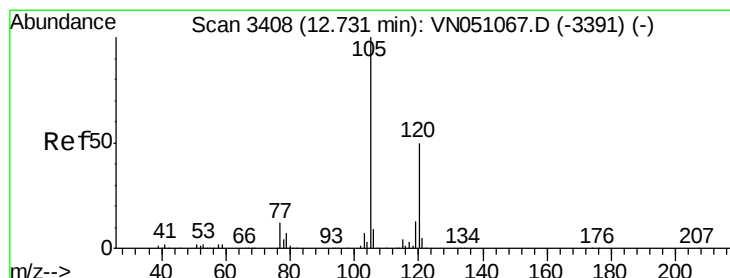
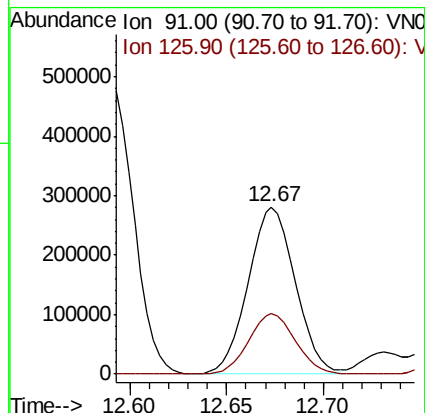
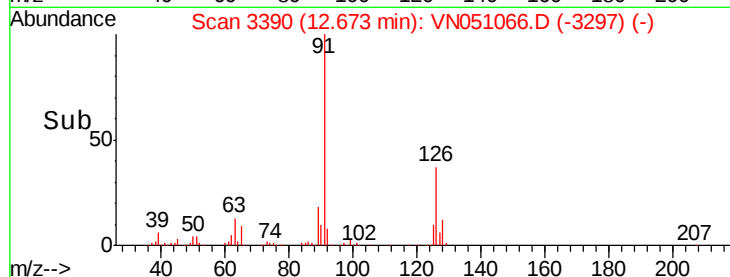
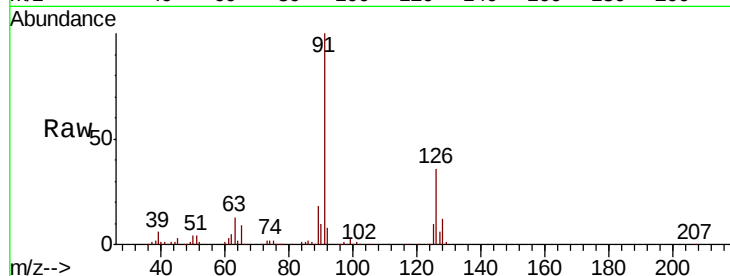
126 36.2 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.28 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051066.D

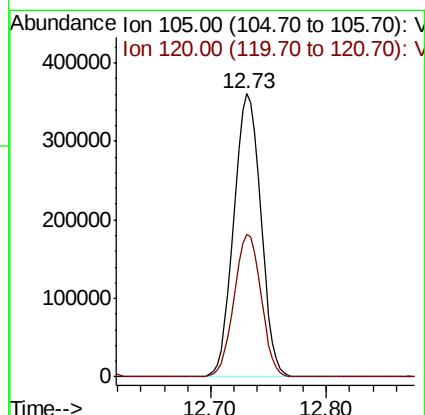
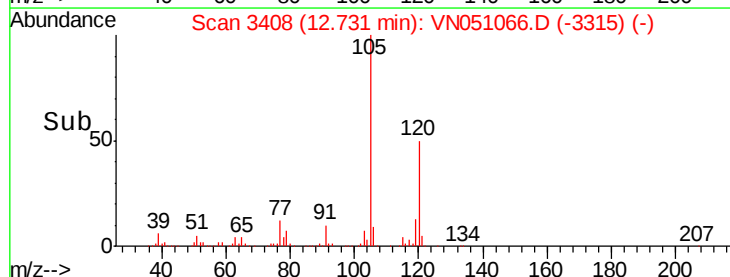
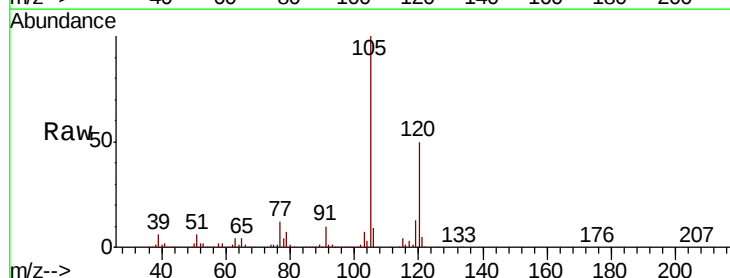
Acq: 10 Sep 2018 8:58

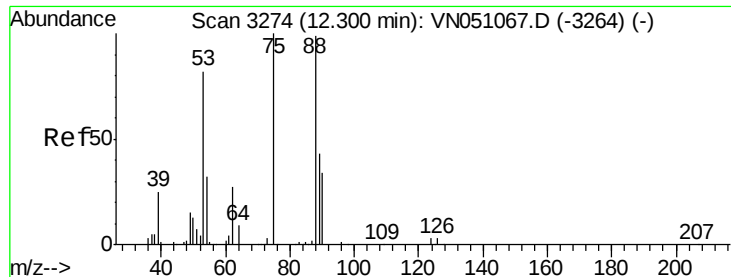
Tgt Ion: 105 Resp: 578993

Ion Ratio Lower Upper

105 100

120 50.4 24.9 74.6





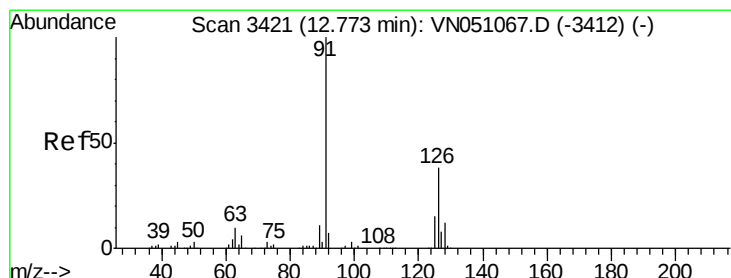
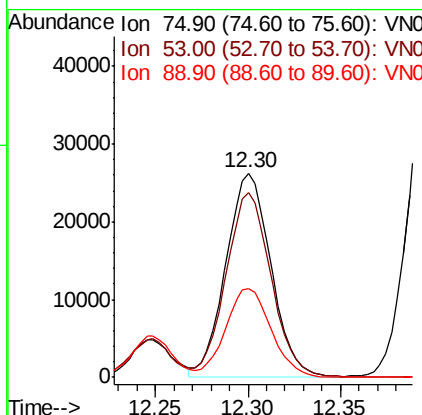
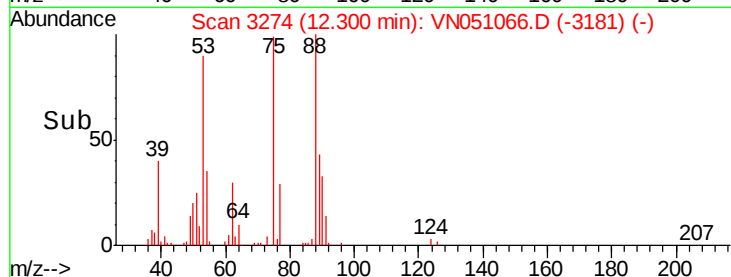
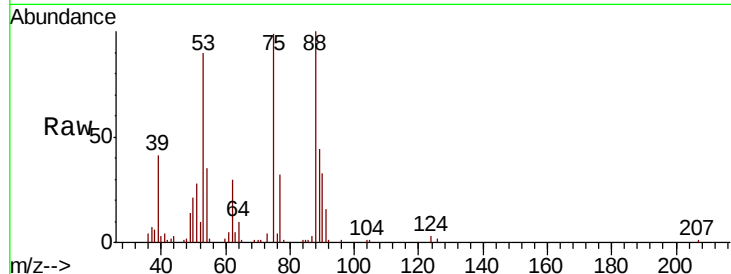
#81
trans-1,4-Dichloro-2-butene
Concen: 19.97 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.2	67.8	101.8
89	44.0	36.0	54.0

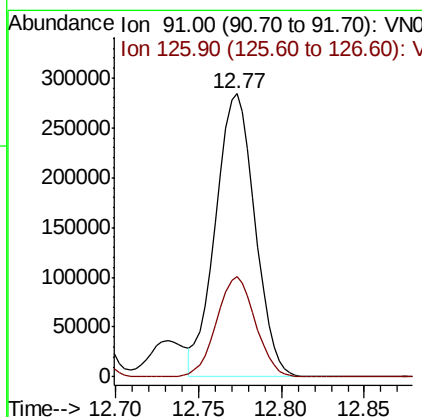
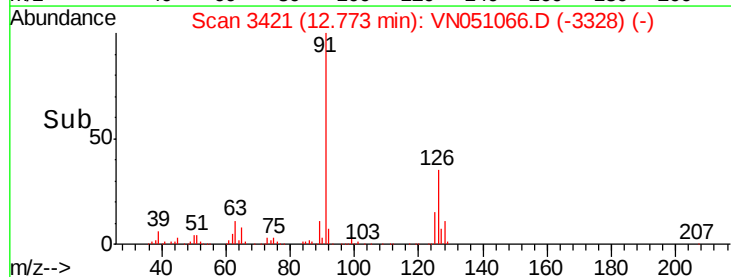
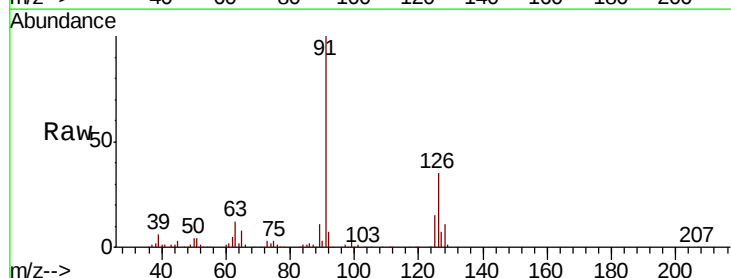
Manual Integrations
APPROVED

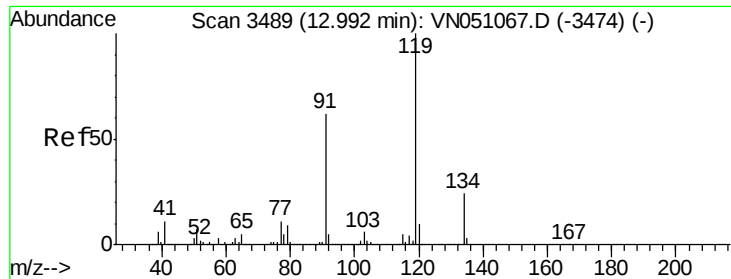
MMDadoda
9/11/2018 9:40:15 AM



#82
4-Chlorotoluene
Concen: 19.46 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.6	52.8





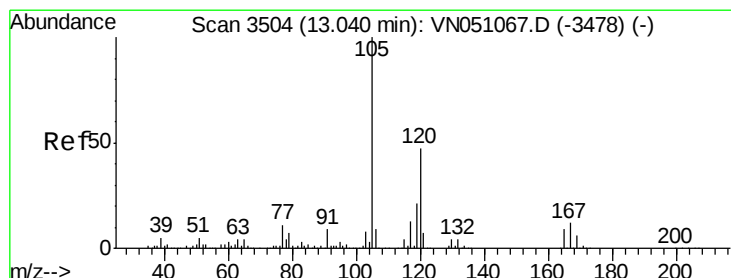
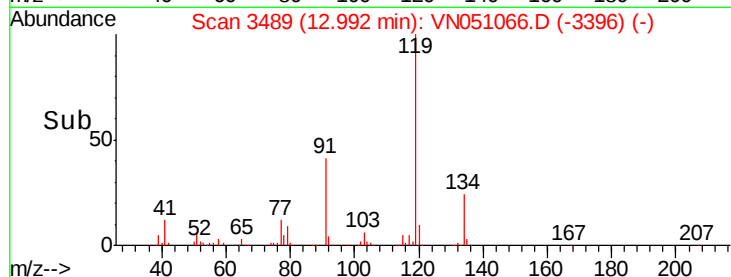
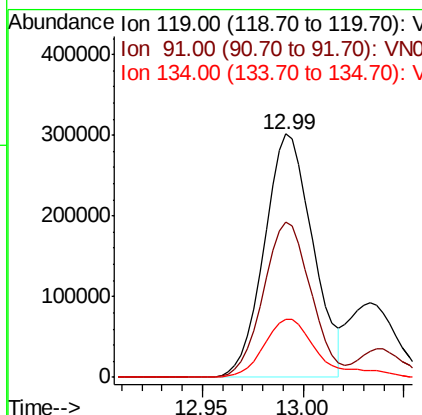
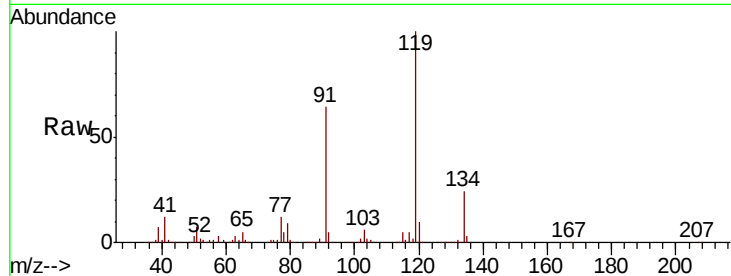
#83
 tert-Butylbenzene
 Concen: 19.98 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	503683		
91	62.6		30.8	92.3
134	26.8		13.2	39.6

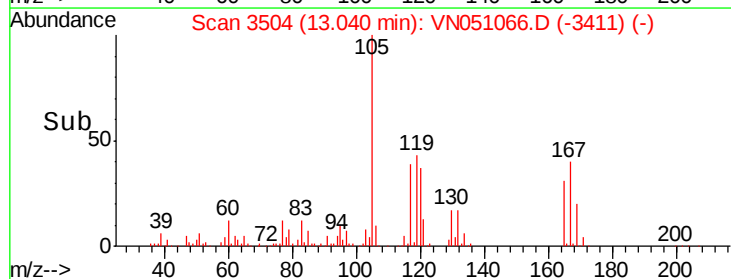
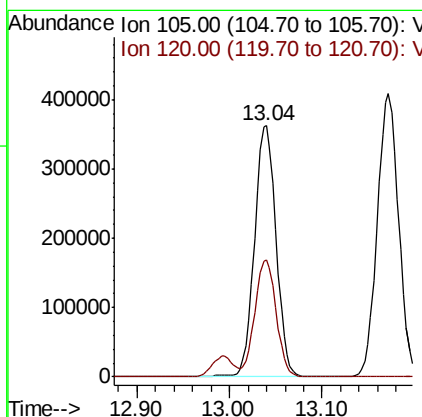
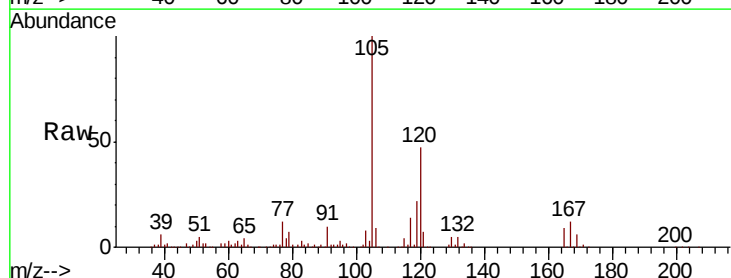
Manual Integrations
 APPROVED

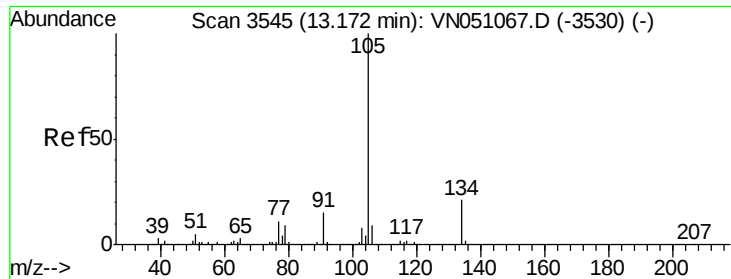
MMDadoda
 9/11/2018 9:40:15 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.84 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	585001		
120	46.0		23.3	69.8





#85

sec-Butylbenzene

Concen: 20.06 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:105 Resp: 648585

Ion Ratio Lower Upper

105 100

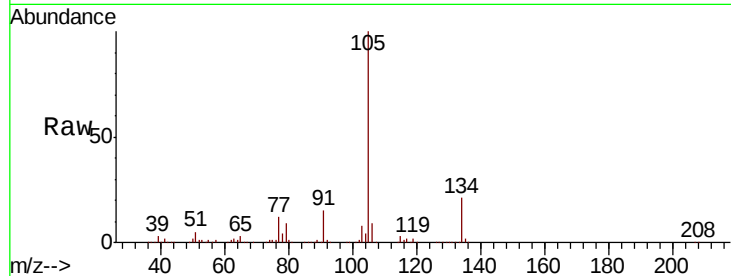
134 20.8 10.4 31.4

Manual Integrations

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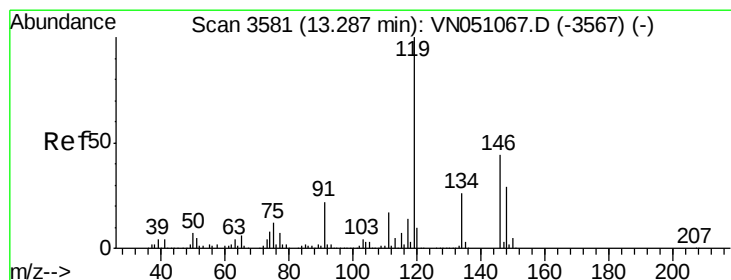
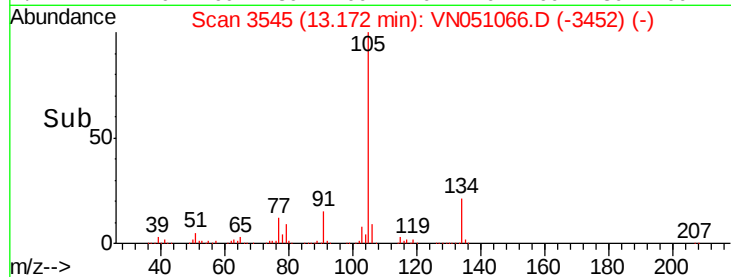
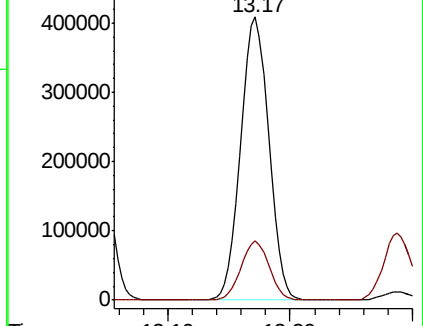
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.54 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

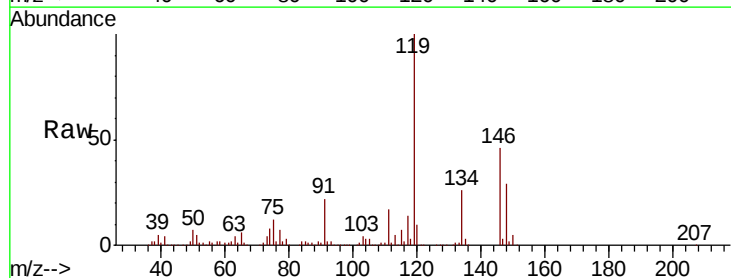
Tgt Ion:119 Resp: 563167

Ion Ratio Lower Upper

119 100

134 27.1 13.5 40.4

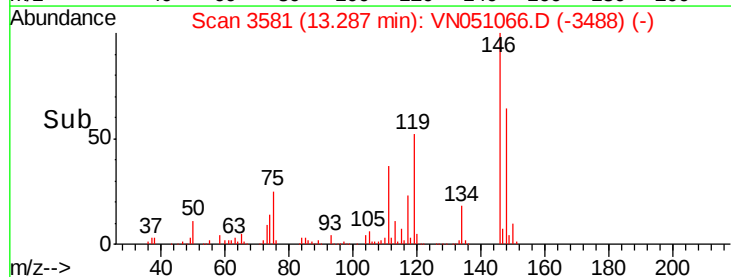
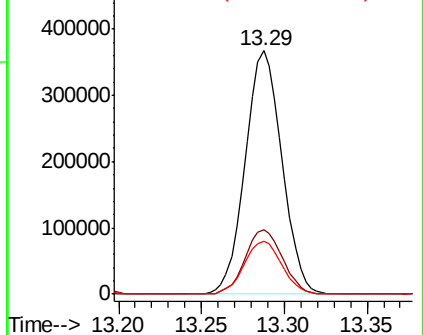
91 22.1 10.9 32.9

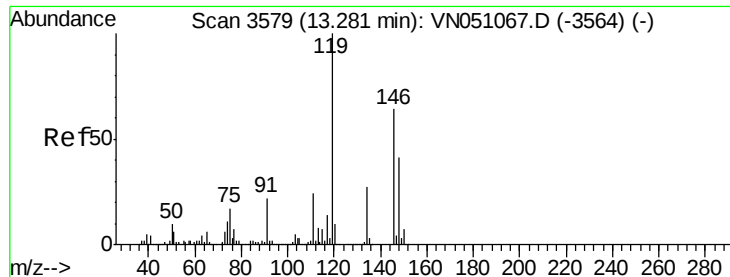


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 18.93 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Instrument :

MSVOA_N

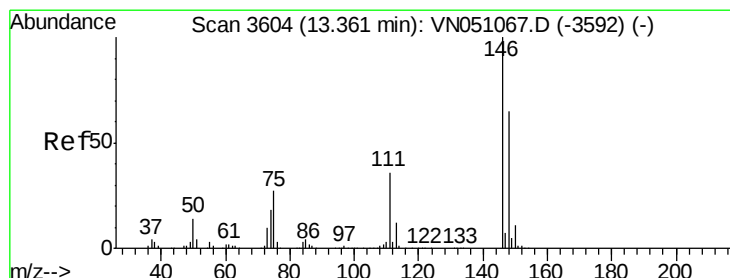
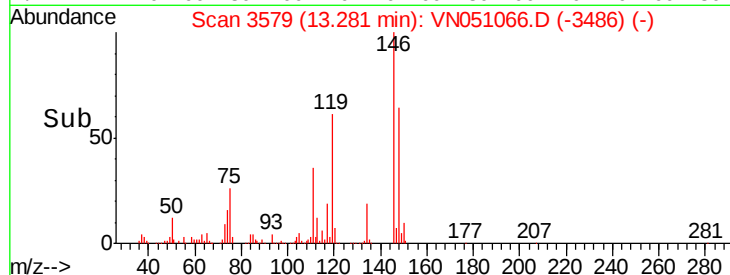
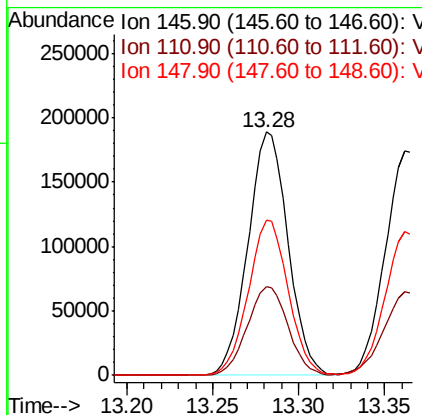
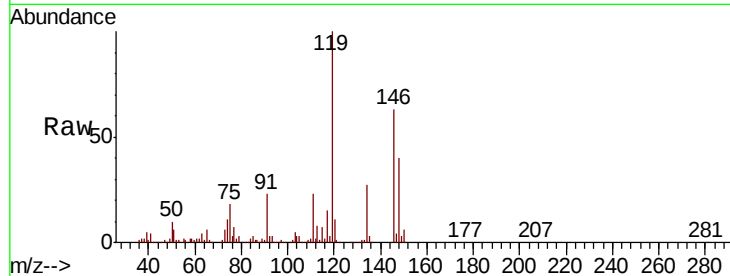
ClientSampled :

VSTDIC020

Tot Ion:	146	Resp:	304681
Ion Ratio	Lower	Upper	
146	100		
111	37.2	19.1	57.1
148	63.5	32.2	96.6

Manual Integrations
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9/11/2018 9:40:15 AM



#88

1,4-Dichlorobenzene

Concen: 18.21 ug/l

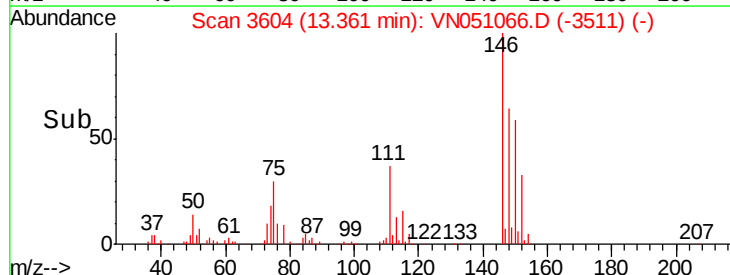
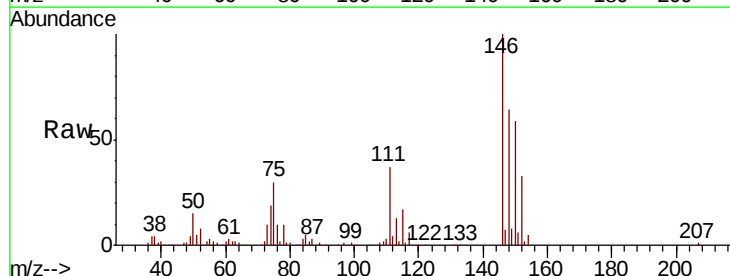
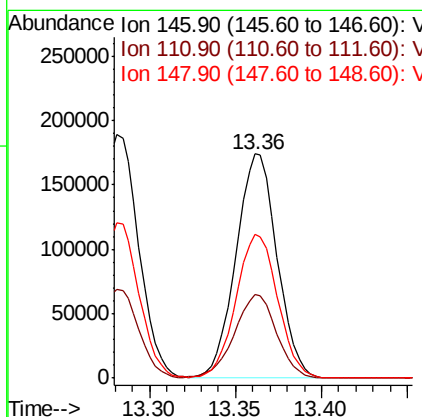
RT: 13.36 min Scan# 3604

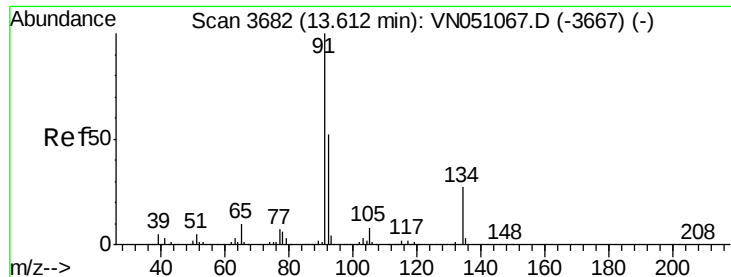
Delta R.T. -0.00 min

Lab File: VN051066.D

Acq: 10 Sep 2018 8:58

Tgt Ion:	146	Resp:	288910
Ion Ratio	Lower	Upper	
146	100		
111	38.5	18.4	55.0
148	65.1	32.2	96.6





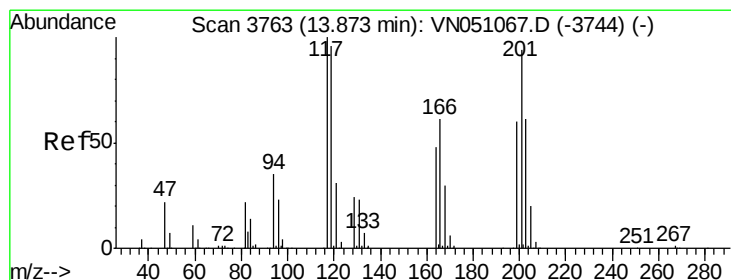
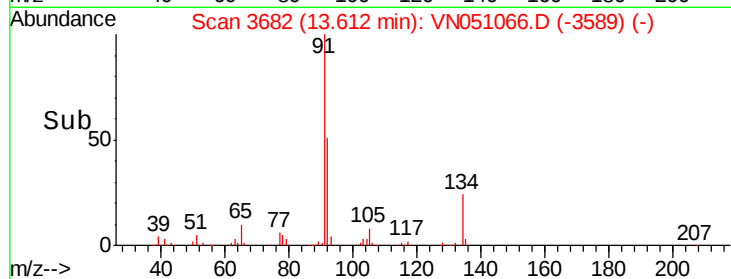
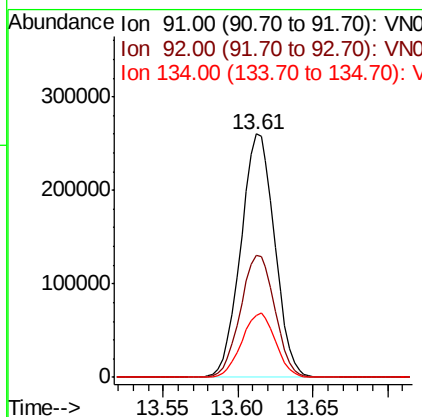
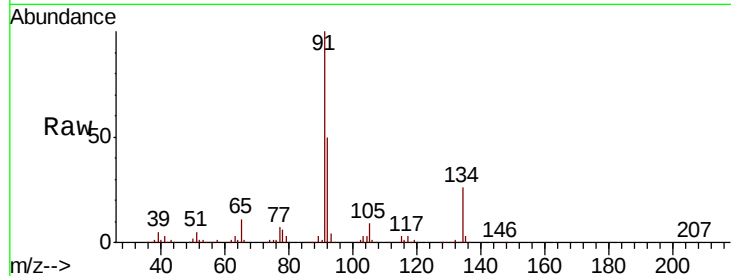
#89
n-Butylbenzene
Concen: 19.26 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.9	26.2	78.6
134	26.2	13.7	41.1

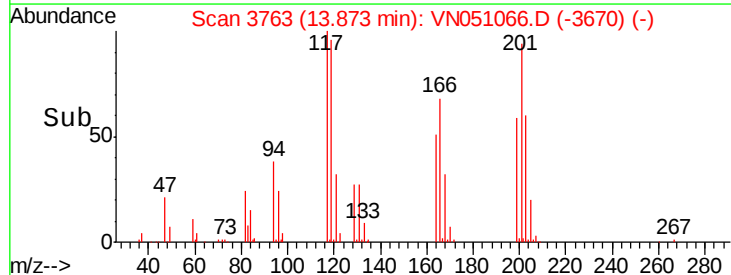
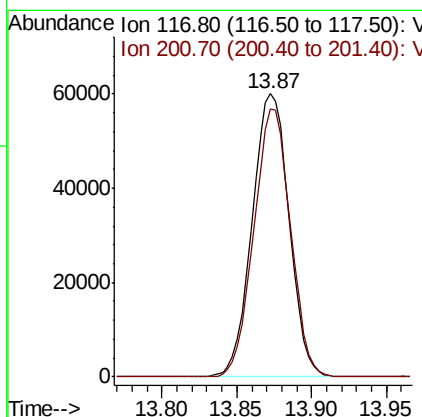
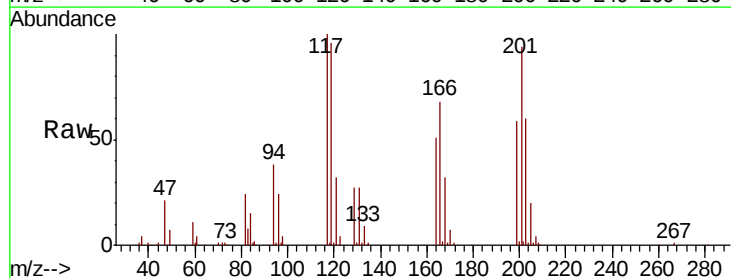
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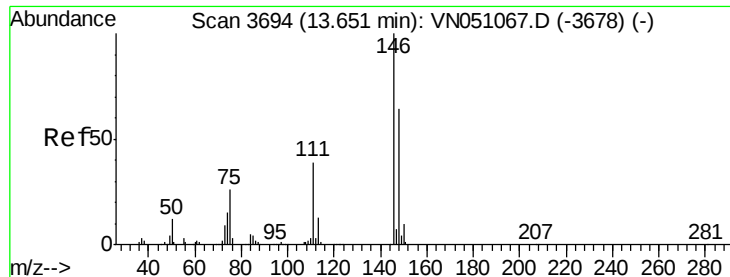
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#90
Hexachloroethane
Concen: 18.39 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.7	47.3	142.0





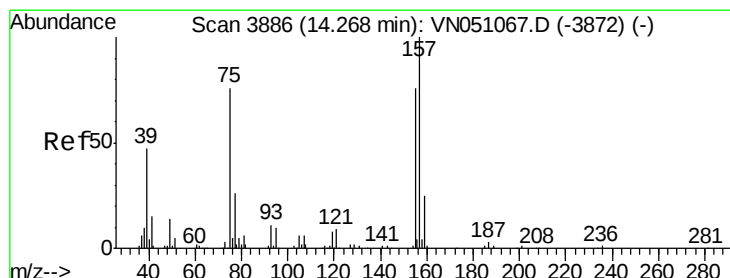
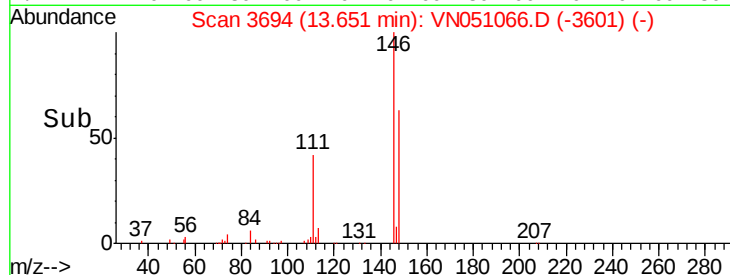
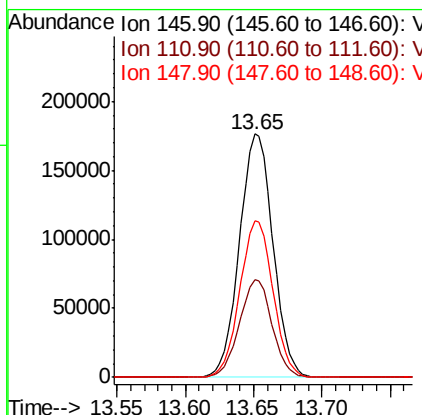
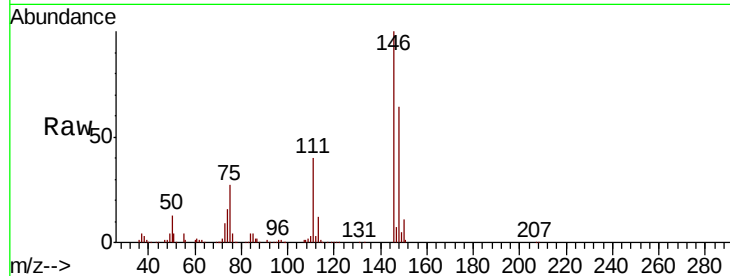
#91
 1,2-Dichlorobenzene
 Concen: 19.19 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	300915		
111	38.9	19.7	59.0	
148	63.6	32.1	96.3	

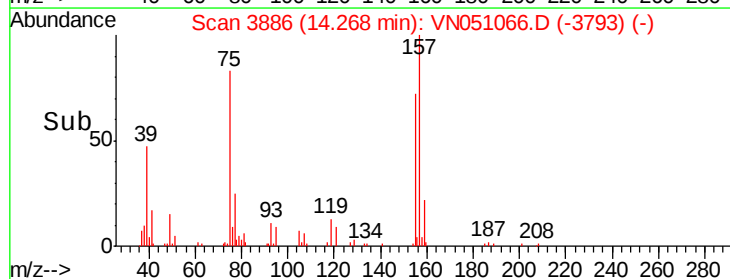
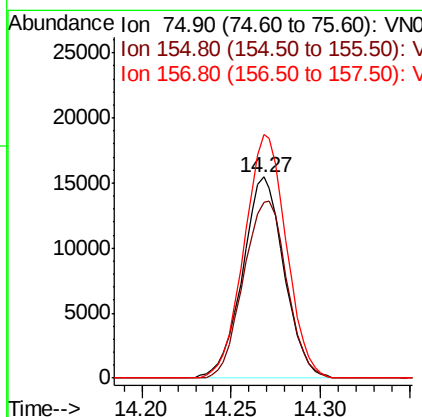
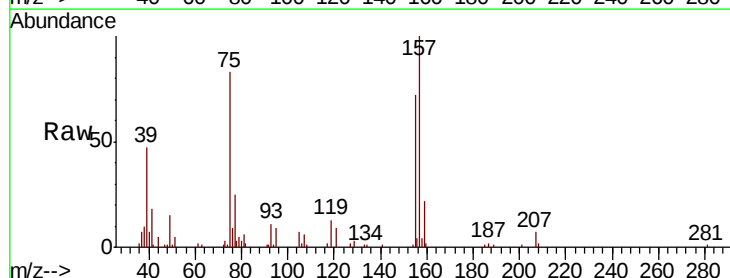
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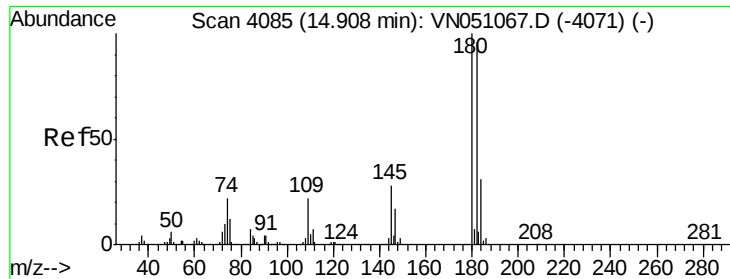
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 9/11/2018 9:40:15 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.31 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	25128		
155	91.7	48.7	146.1	
157	122.8	63.6	190.9	





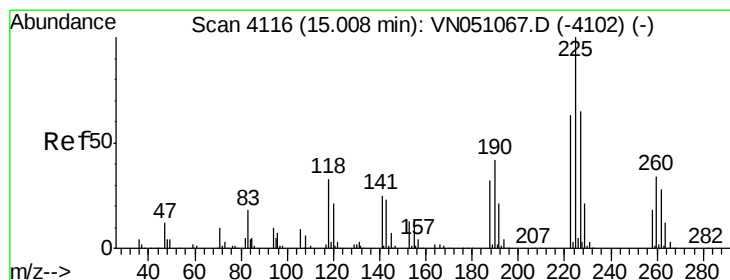
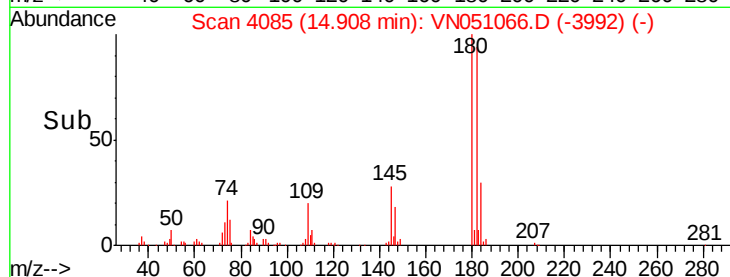
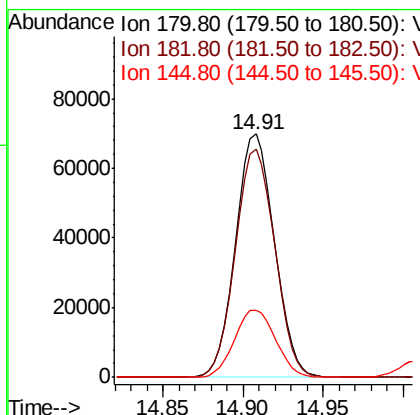
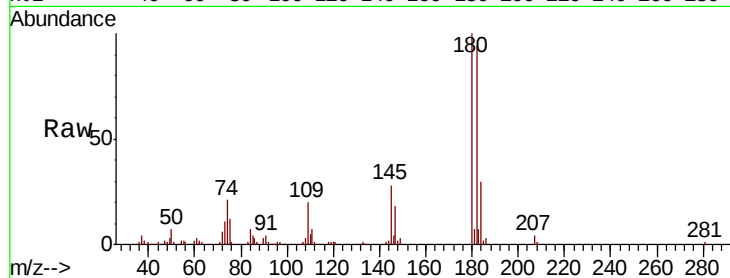
#93
 1,2,4-Trichlorobenzene
 Concen: 17.13 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	115656		
182	94.9	47.3	141.8	
145	29.1	14.2	42.6	

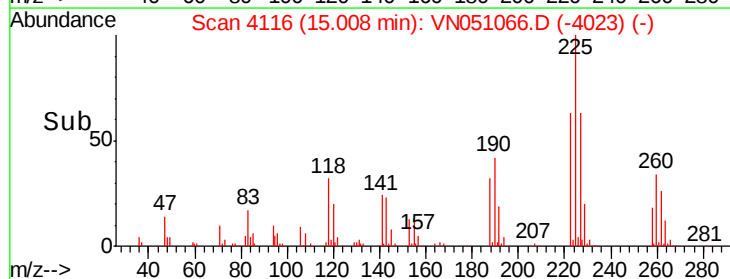
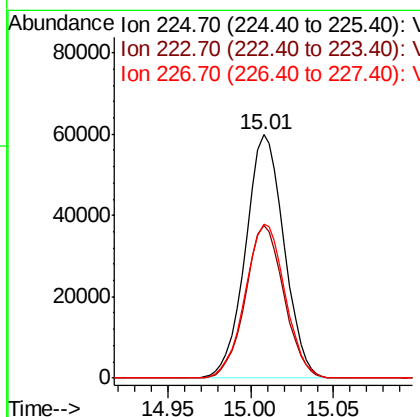
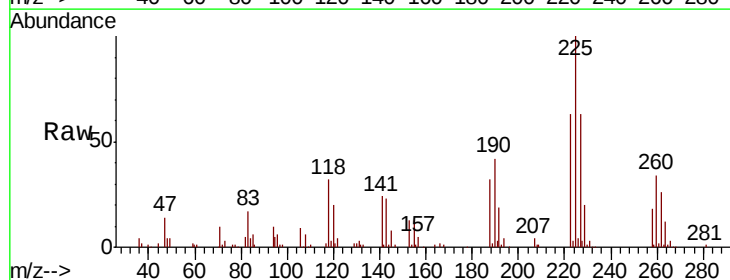
Manual Integrations
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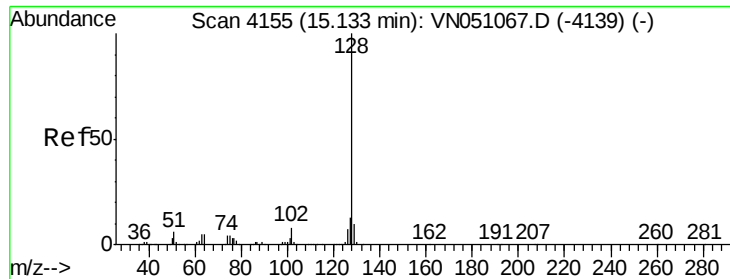
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#94
 Hexachlorobutadiene
 Concen: 17.47 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN051066.D
 Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	96564		
223	62.6	31.4	94.0	
227	65.4	32.1	96.3	





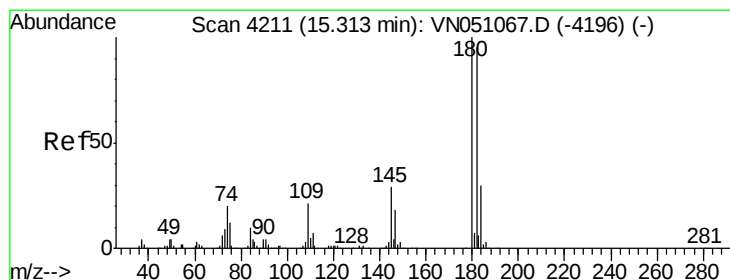
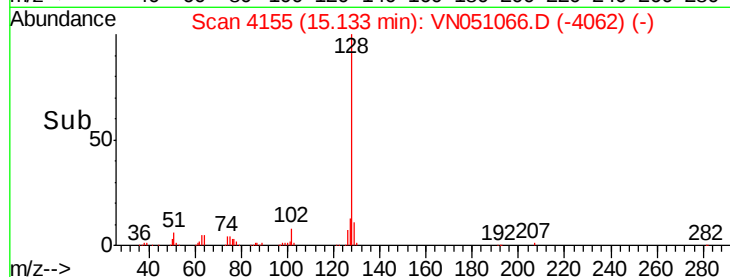
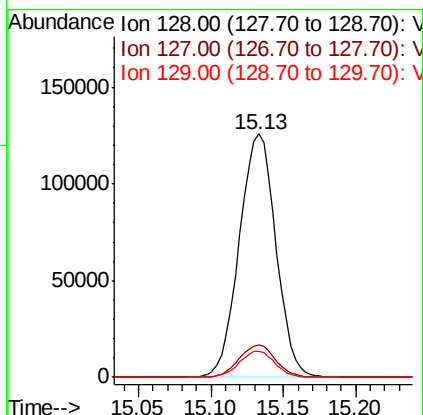
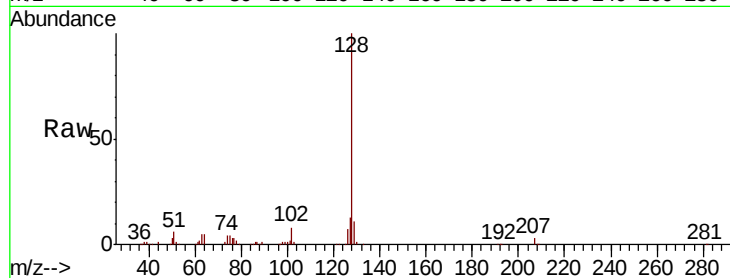
#95
Naphthalene
Concen: 15.43 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	10.5	8.6	12.8

Manual Integrations
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9/11/2018 9:40:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 17.10 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051066.D
Acq: 10 Sep 2018 8:58

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.8	143.3
145	30.3	14.6	43.8

