

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050376.D
 Acq On : 6 Aug 2018 11:35
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/7/2018 9:57:54 AM

Quant Time: Aug 06 13:00:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 06 12:50:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	630593	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	948110	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	854955	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	411319	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	45586	5.18	ug/l	0.00
Spiked Amount			Recovery	=	10.36%	
35) Dibromofluoromethane	7.59	113	39124	5.05	ug/l	0.00
Spiked Amount			Recovery	=	10.10%	
50) Toluene-d8	10.09	98	137679	4.84	ug/l	0.00
Spiked Amount			Recovery	=	9.68%	
62) 4-Bromofluorobenzene	12.40	95	42844	4.57	ug/l	0.00
Spiked Amount			Recovery	=	9.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	35046	3.87	ug/l	99
3) Chloromethane	2.06	50	48021	4.88	ug/l	99
4) Vinyl Chloride	2.18	62	46340	4.47	ug/l	98
5) Bromomethane	2.56	94	27197	4.26	ug/l	99
6) Chloroethane	2.70	64	28704	4.61	ug/l	95
7) Trichlorofluoromethane	3.01	101	63207	4.70	ug/l	100
8) Diethyl Ether	3.41	74	22537	5.03	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.75	101	38114	4.72	ug/l	97
10) Methyl Iodide	3.95	142	10755	1.04	ug/l #	95
11) Tert butyl alcohol	4.80	59	16544	25.56	ug/l #	82
12) 1,1-Dichloroethene	3.73	96	34479	4.74	ug/l	99
13) Acrolein	3.61	56	22993	44.21	ug/l	99
14) Allyl chloride	4.32	41	55896	4.96	ug/l	98
15) Acrylonitrile	4.99	53	69745	24.69	ug/l	99
16) Acetone	3.82	43	68115	29.69	ug/l	98
17) Carbon Disulfide	4.05	76	114483	5.14	ug/l	99
18) Methyl Acetate	4.33	43	38315	3.65	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	95394	4.93	ug/l	97
20) Methylene Chloride	4.55	84	47158	5.34	ug/l	95
21) trans-1,2-Dichloroethene	5.04	96	38615	5.01	ug/l	93
22) Diisopropyl ether	5.96	45	110200	4.93	ug/l	95
23) Vinyl Acetate	5.90	43	386032	24.45	ug/l	99
24) 1,1-Dichloroethane	5.85	63	73708	5.04	ug/l	99
25) 2-Butanone	6.84	43	103192	30.75	ug/l	97
26) 2,2-Dichloropropane	6.82	77	60225	5.42	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	41663	5.03	ug/l	98
28) Bromochloromethane	7.19	49	33053	4.96	ug/l	100
29) Tetrahydrofuran	7.22	42	54104	24.95	ug/l	99
30) Chloroform	7.37	83	74289	4.98	ug/l	98
31) Cyclohexane	7.66	56	66600	4.75	ug/l #	81
32) 1,1,1-Trichloroethane	7.57	97	63470	4.98	ug/l	99
36) 1,1-Dichloropropene	7.79	75	52945	4.96	ug/l	99
37) Ethyl Acetate	6.94	43	34897	4.69	ug/l	96
38) Carbon Tetrachloride	7.78	117	55802	4.92	ug/l	97

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 ALS Vial : 3 Sample Multiplier: 1

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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	52900	4.81	ug/l	96
40) Benzene	8.04	78	163680	5.04	ug/l	99
41) Methacrylonitrile	7.19	41	19307m	5.53	ug/l	
42) 1,2-Dichloroethane	8.13	62	51949	4.79	ug/l	100
43) Isopropyl Acetate	8.17	43	66885	3.71	ug/l	99
44) Trichloroethene	8.84	130	43237	4.95	ug/l	92
45) 1,2-Dichloropropane	9.12	63	43507	5.05	ug/l	97
46) Dibromomethane	9.21	93	27476	5.14	ug/l	99
47) Bromodichloromethane	9.40	83	56007	4.96	ug/l	99
48) Methyl methacrylate	9.20	41	29793	4.65	ug/l	98
49) 1,4-Dioxane	9.20	88	8631	98.88	ug/l	90
51) 4-Methyl-2-Pentanone	9.99	43	223879	30.58	ug/l	99
52) Toluene	10.16	92	95265	4.97	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	51508	4.84	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	58332	4.79	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	39353	5.17	ug/l	95
56) Ethyl methacrylate	10.43	69	43155	4.80	ug/l	97
57) 1,3-Dichloropropane	10.71	76	61638	4.97	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	97687	23.34	ug/l	99
59) 2-Hexanone	10.75	43	152598	31.59	ug/l	98
60) Dibromochloromethane	10.90	129	40782	4.84	ug/l	98
61) 1,2-Dibromoethane	11.01	107	37787	5.00	ug/l	99
64) Tetrachloroethene	10.63	164	41310	5.03	ug/l	98
65) Chlorobenzene	11.44	112	109721	5.08	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	40896	4.93	ug/l	100
67) Ethyl Benzene	11.51	91	167262	4.82	ug/l	100
68) m/p-Xylenes	11.62	106	124444	9.48	ug/l	99
69) o-Xylene	11.95	106	60056	4.80	ug/l	98
70) Styrene	11.97	104	94139	4.76	ug/l	100
71) Bromoform	12.13	173	28045	4.65	ug/l #	99
73) Isopropylbenzene	12.25	105	159300	4.99	ug/l	100
74) N-amyl acetate	12.07	43	49018	5.03	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	48927	5.02	ug/l	98
76) 1,2,3-Trichloropropane	12.56	75	39925m	5.22	ug/l	
77) Bromobenzene	12.53	156	42639	4.82	ug/l	97
78) n-propylbenzene	12.59	91	173437	4.86	ug/l	99
79) 2-Chlorotoluene	12.68	91	110444	5.00	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	126655	5.05	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	9963	4.13	ug/l	92
82) 4-Chlorotoluene	12.77	91	109960	5.02	ug/l	100
83) tert-Butylbenzene	12.99	119	112355	5.13	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	126300	4.99	ug/l	99
85) sec-Butylbenzene	13.17	105	144803	4.95	ug/l	100
86) p-Isopropyltoluene	13.29	119	121386	4.92	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	75230	5.02	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	74650	5.11	ug/l	94
89) n-Butylbenzene	13.62	91	95547	4.71	ug/l	99
90) Hexachloroethane	13.88	117	22401	4.09	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	77236	5.16	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	8001	5.10	ug/l	93

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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Quant Title : SW846 8260
QLast Update : Mon Aug 06 12:50:03 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	31581	4.78	ug/l	97
94) Hexachlorobutadiene	15.01	225	24189	5.27	ug/l	97
95) Naphthalene	15.14	128	66334	4.44	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	34263	5.12	ug/l	96

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

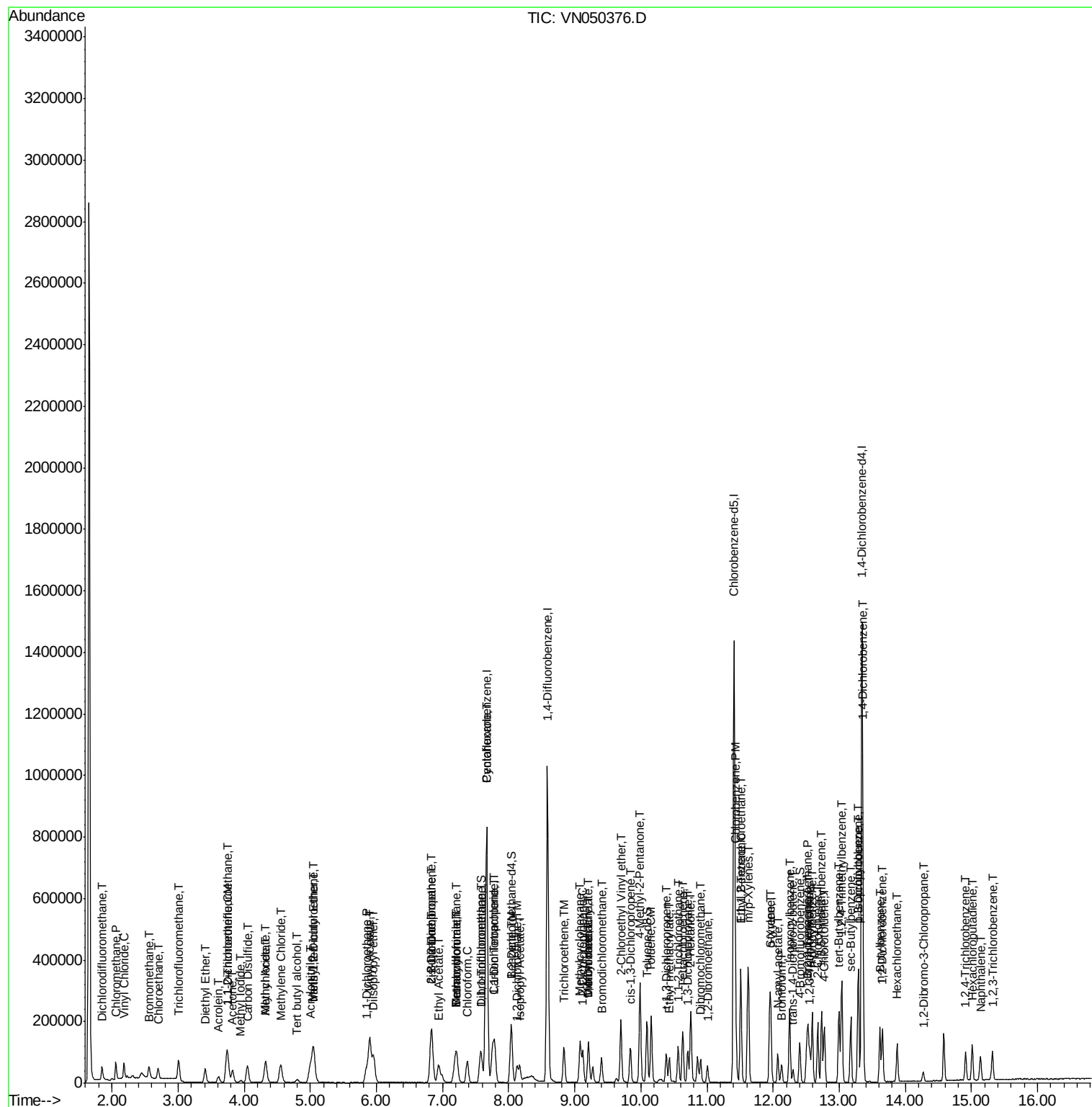
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Data File : VN050376.D
Acq On : 6 Aug 2018 11:35
Operator : MD\SY
Sample : VSTDIC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

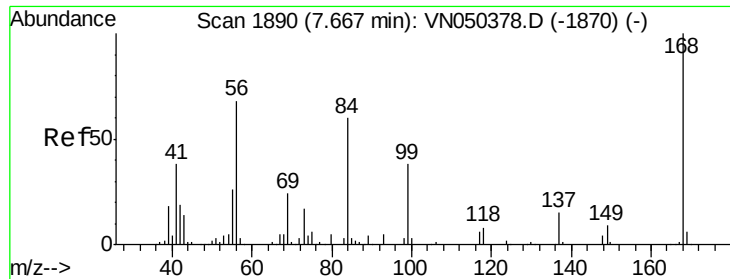
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
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MMDadoda
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Quant Time: Aug 06 13:00:27 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 06 12:50:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 630593

Ion Ratio Lower Upper

168 100

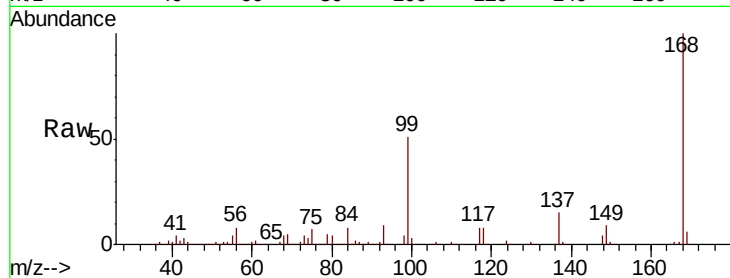
99 50.4 40.0 60.0

Manual Integrations

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8/7/2018 9:57:54 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

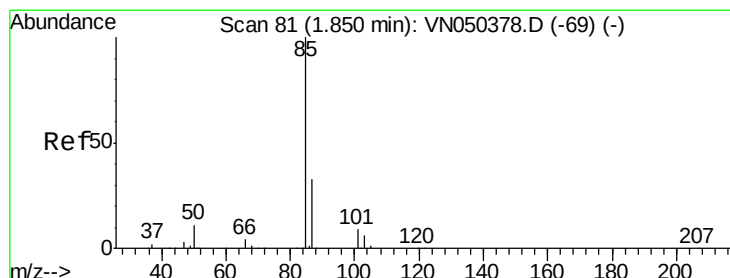
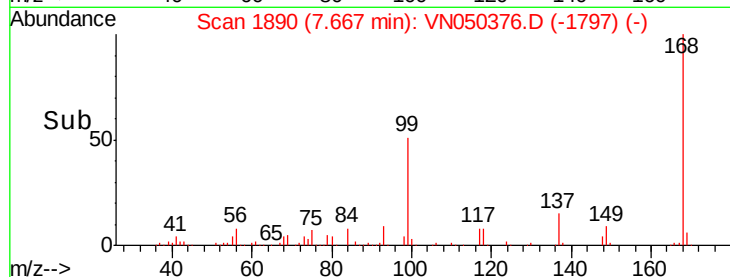
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 3.87 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050376.D

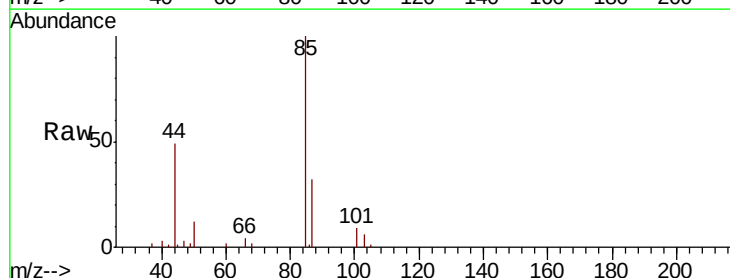
Acq: 6 Aug 2018 11:35

Tgt Ion: 85 Resp: 35046

Ion Ratio Lower Upper

85 100

87 31.7 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

25000

20000

15000

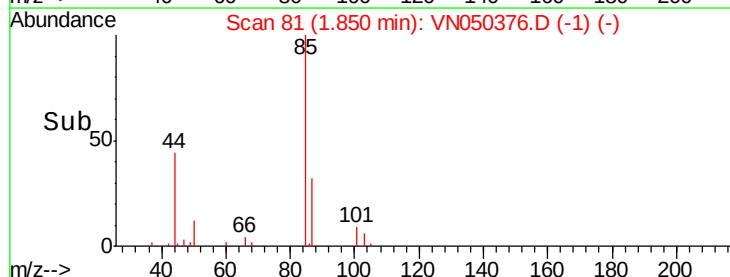
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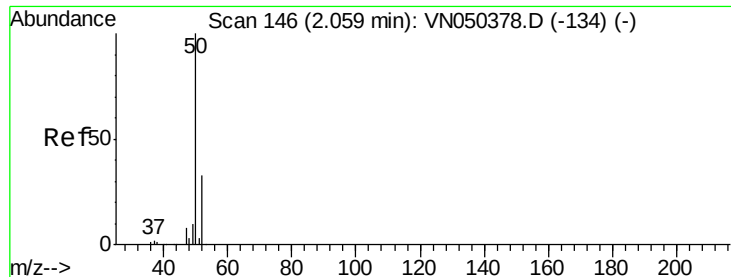
5000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 4.88 ug/l

RT: 2.06 min Scan# 146

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 48021

Ion Ratio Lower Upper

50 100

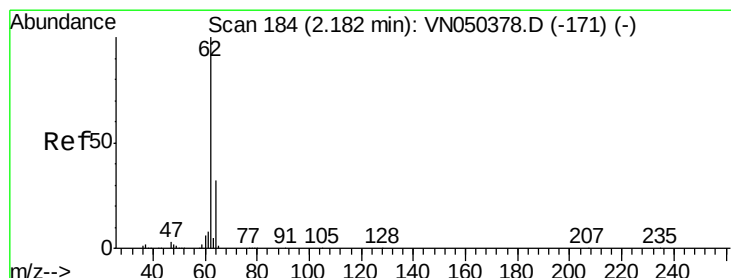
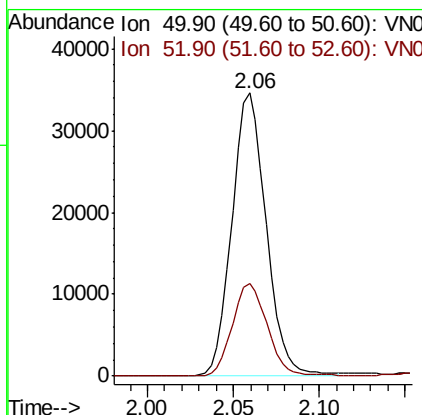
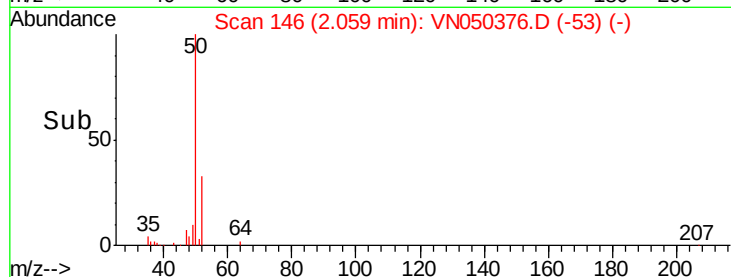
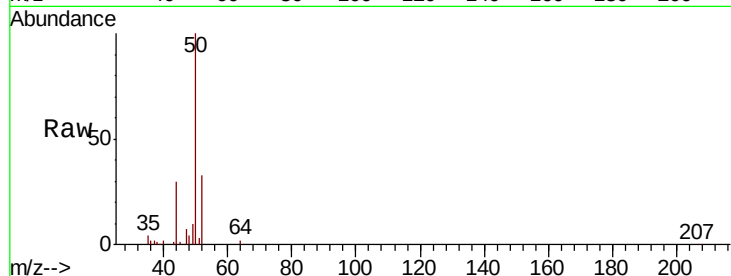
52 32.9 25.9 38.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.47 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050376.D

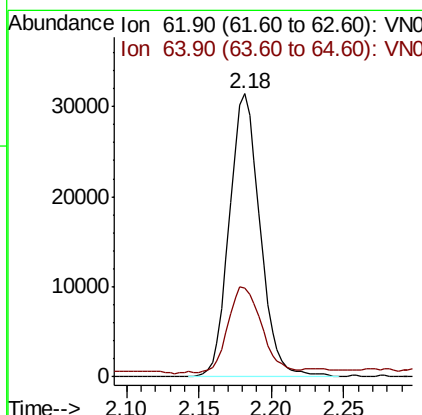
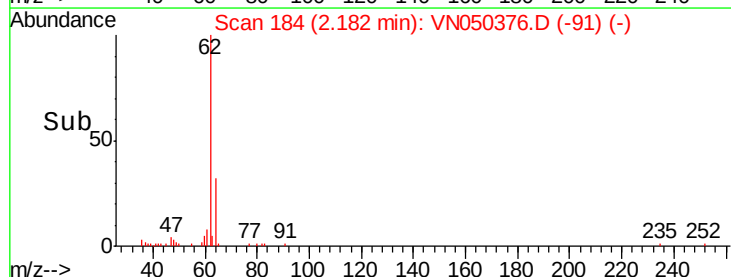
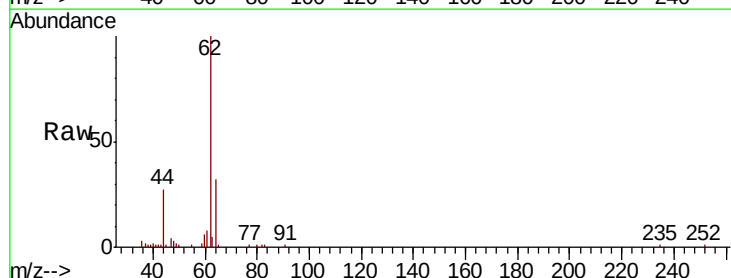
Acq: 6 Aug 2018 11:35

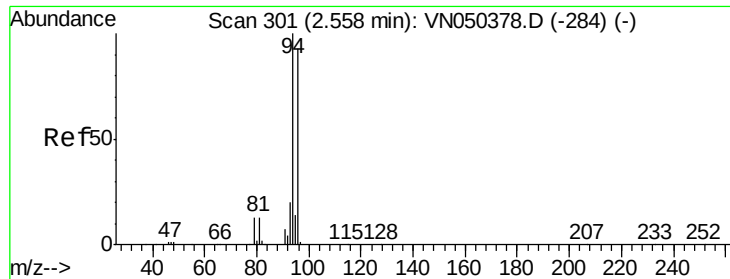
Tgt Ion: 62 Resp: 46340

Ion Ratio Lower Upper

62 100

64 29.7 24.7 37.1





#5

Bromomethane

Concen: 4.26 ug/l

RT: 2.56 min Scan# 301

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 27197

Ion Ratio Lower Upper

94 100

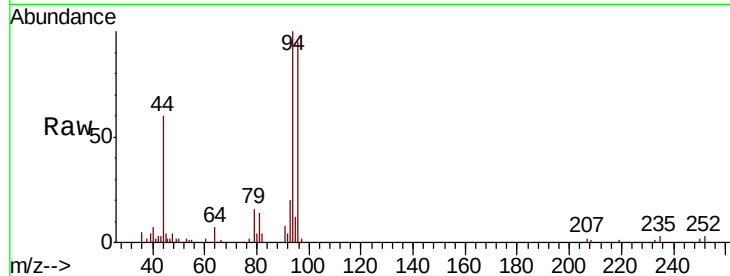
96 93.8 74.6 112.0

Manual Integrations

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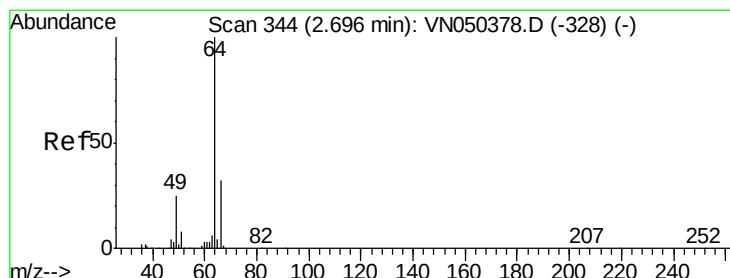
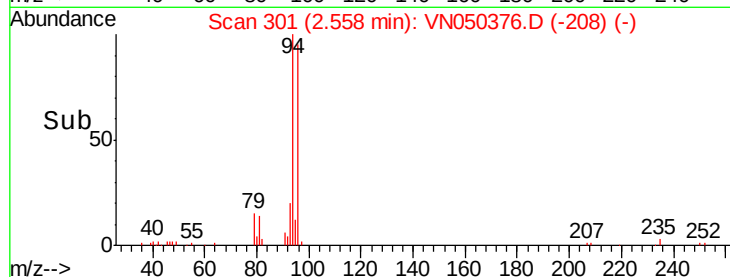
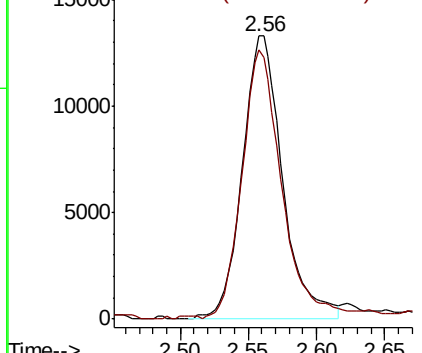
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 4.61 ug/l

RT: 2.70 min Scan# 344

Delta R.T. -0.00 min

Lab File: VN050376.D

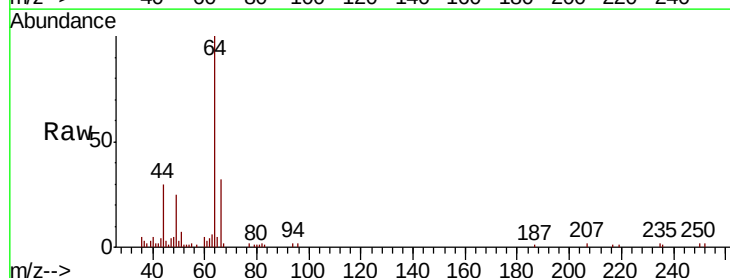
Acq: 6 Aug 2018 11:35

Tgt Ion: 64 Resp: 28704

Ion Ratio Lower Upper

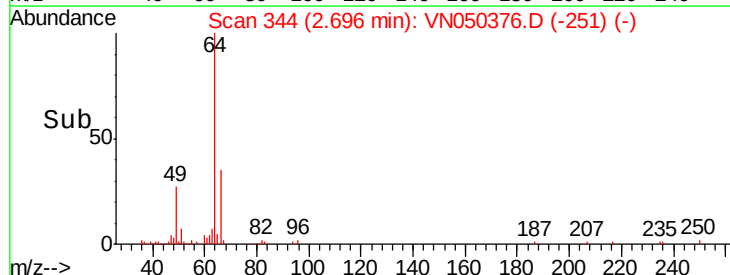
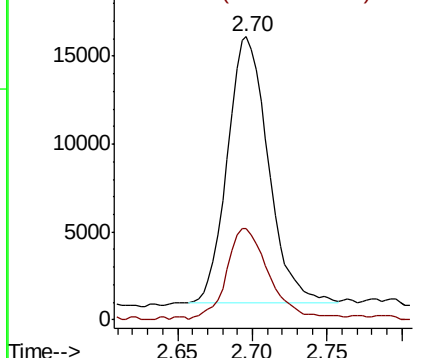
64 100

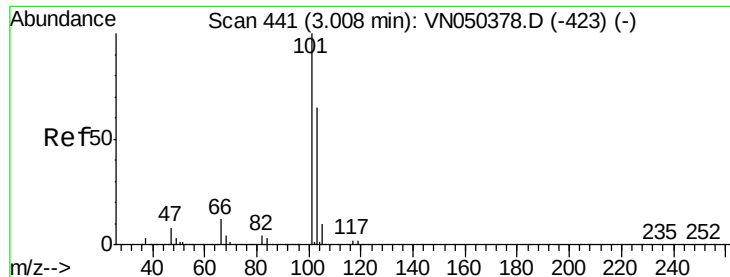
66 34.5 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

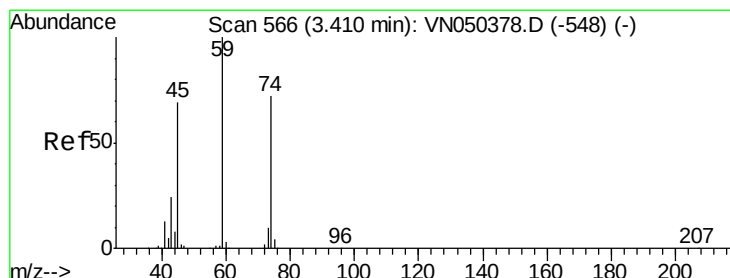
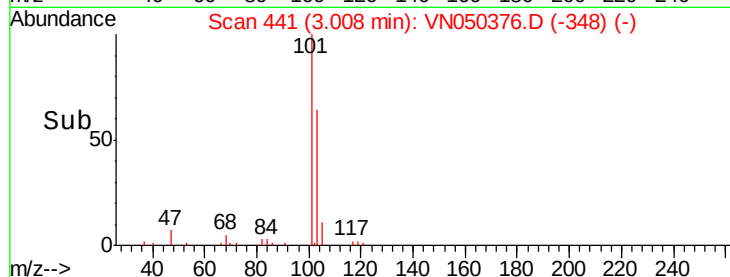
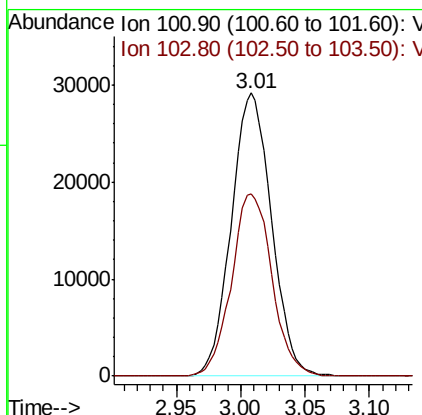
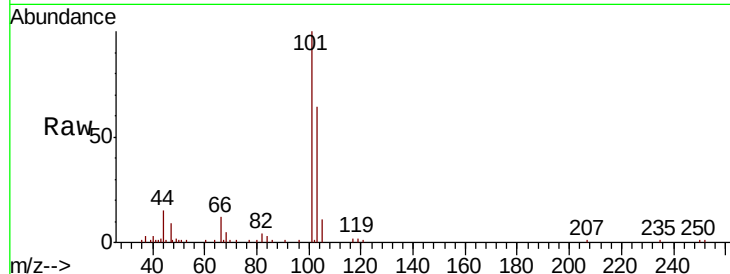
Trichlorofluoromethane
 Concen: 4.70 ug/l
 RT: 3.01 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.7	77.5

Manual Integrations
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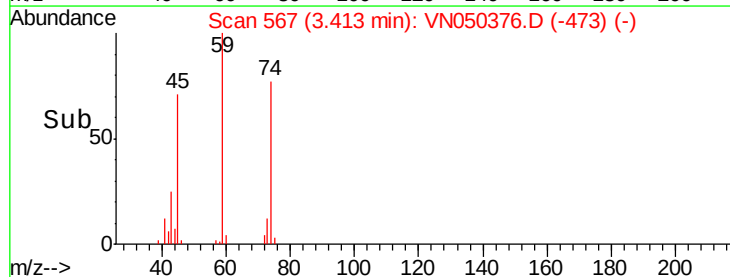
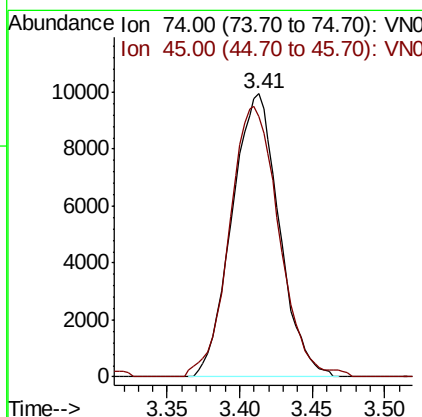
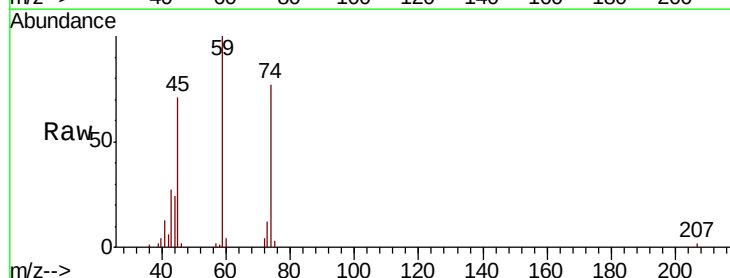
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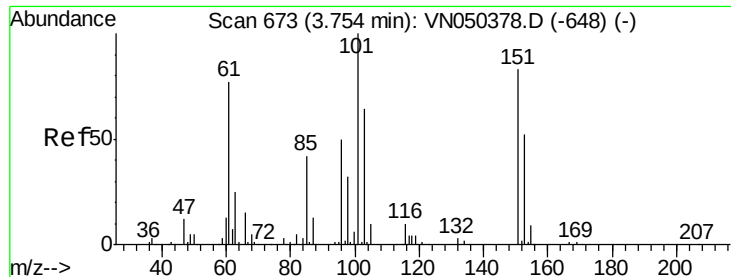


#8

Diethyl Ether
 Concen: 5.03 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.2	47.6	142.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.72 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

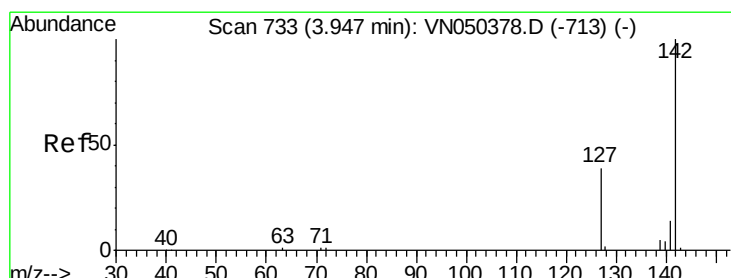
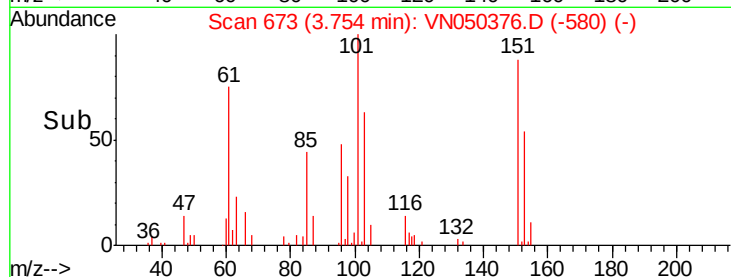
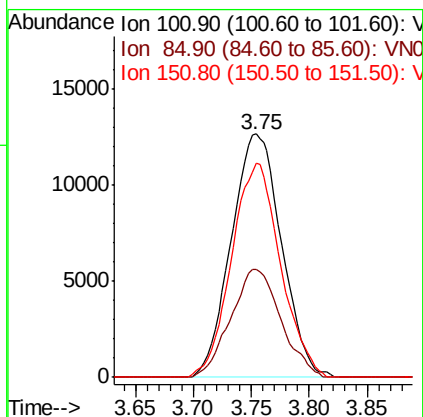
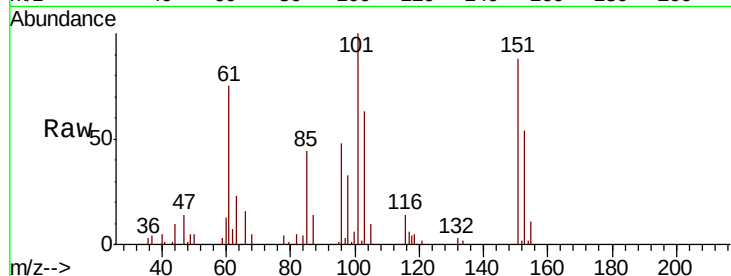
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	38114
Ion Ratio	Lower	Upper	
101	100		
85	44.3	34.2	51.2
151	85.6	66.3	99.5

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#10

Methyl Iodide

Concen: 1.04 ug/l

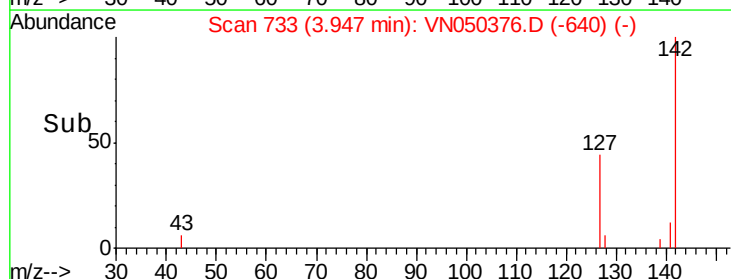
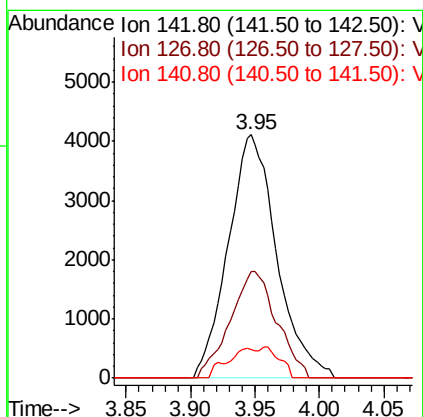
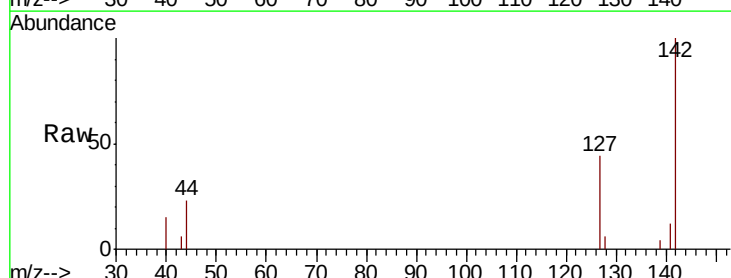
RT: 3.95 min Scan# 733

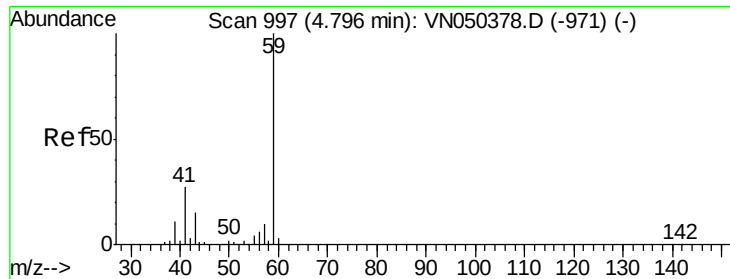
Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Tgt Ion:	142	Resp:	10755
Ion Ratio	Lower	Upper	
142	100		
127	42.0	33.4	50.2
141	7.1	11.6	17.4#





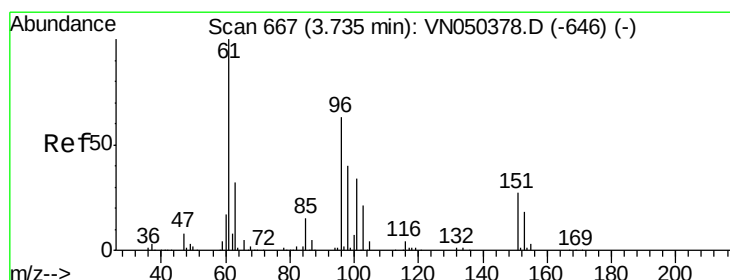
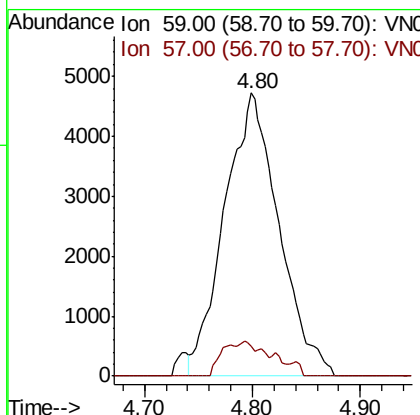
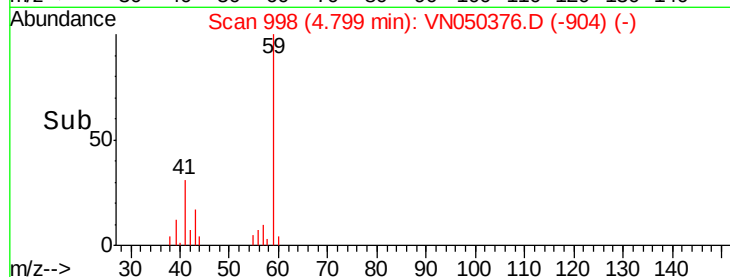
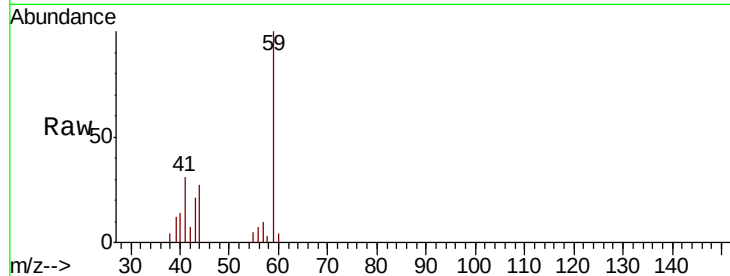
#11
Tert butyl alcohol
Concen: 25.56 ug/l
RT: 4.80 min Scan# 998
Delta R.T. 0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 59 Resp: 16544
Ion Ratio Lower Upper
59 100
57 3.9 8.5 12.7#

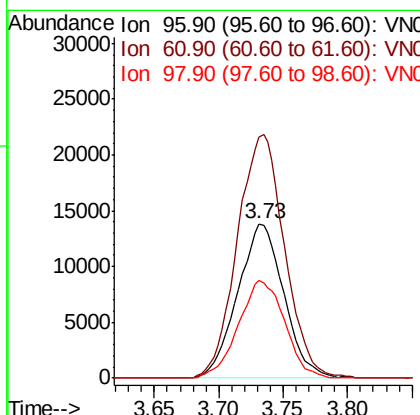
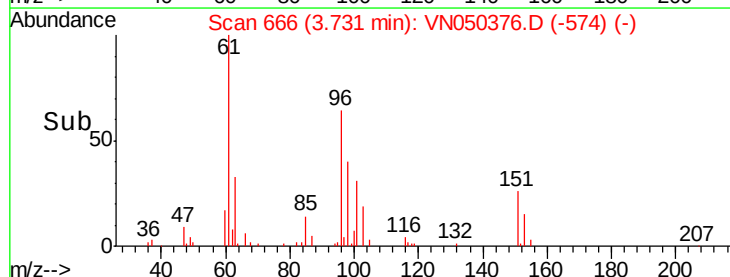
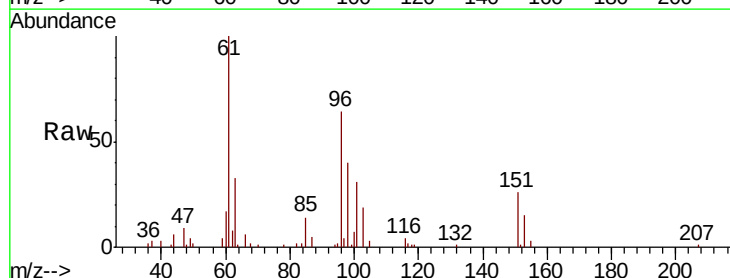
Manual Integrations
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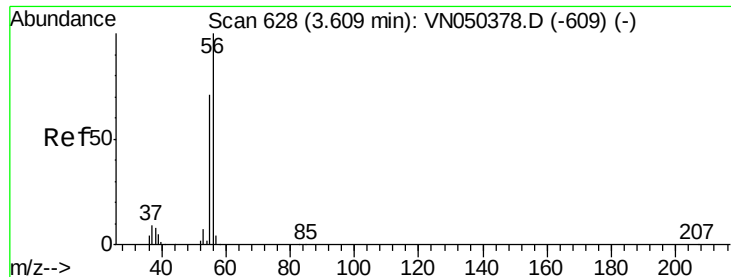
MMDadoda
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#12
1,1-Dichloroethene
Concen: 4.74 ug/l
RT: 3.73 min Scan# 666
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion: 96 Resp: 34479
Ion Ratio Lower Upper
96 100
61 156.0 124.4 186.6
98 63.0 48.3 72.5





#13

Acrolein

Concen: 44.21 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 22993

Ion Ratio Lower Upper

56 100

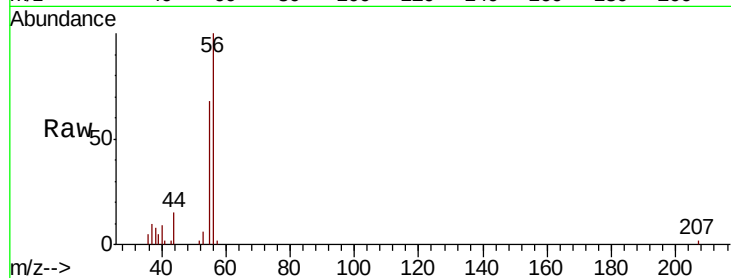
55 70.3 55.8 83.6

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

10000

8000

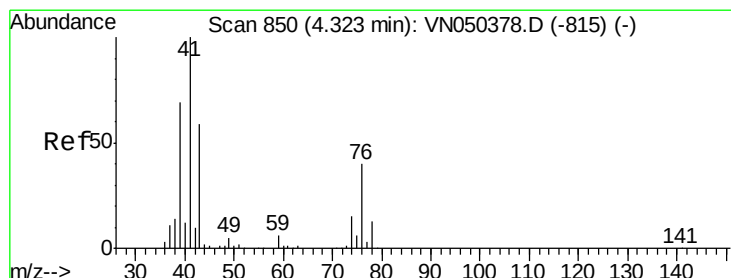
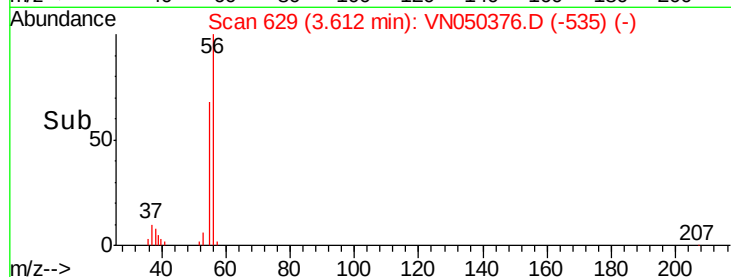
6000

4000

2000

0

Time--> 3.50 3.55 3.60 3.65 3.70



#14

Allyl chloride

Concen: 4.96 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

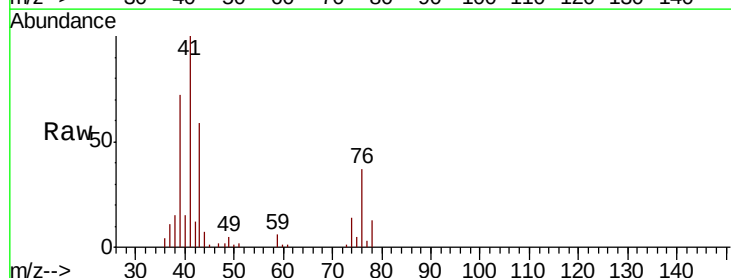
Tgt Ion: 41 Resp: 55896

Ion Ratio Lower Upper

41 100

39 65.0 54.2 81.4

76 36.4 29.0 43.6



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

25000

20000

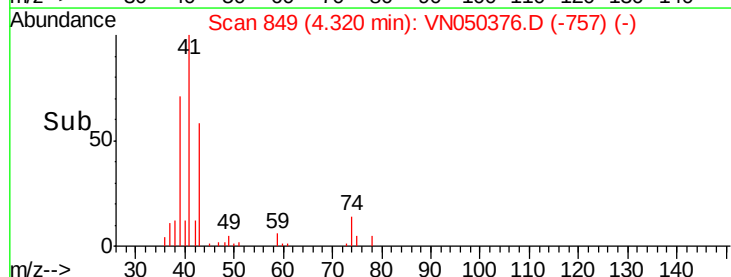
15000

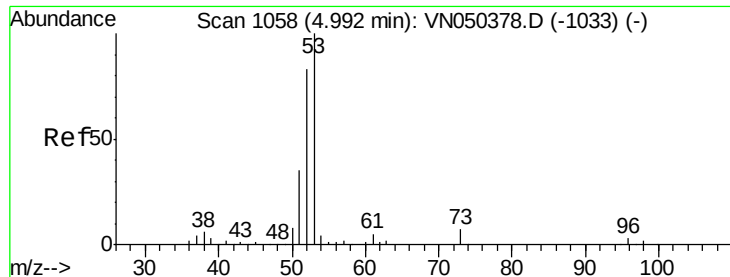
10000

5000

0

Time--> 4.20 4.30 4.40





#15

Acrylonitrile

Concen: 24.69 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

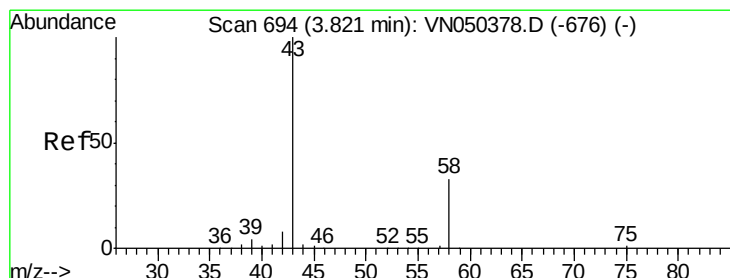
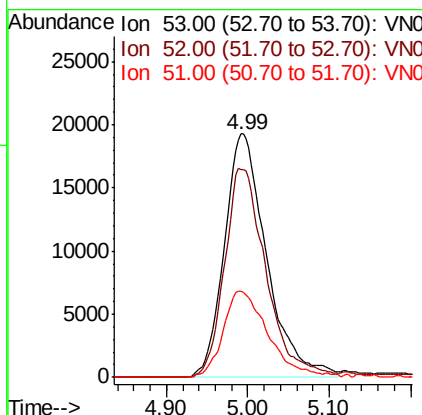
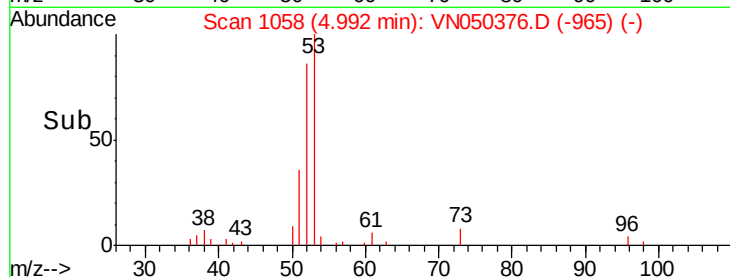
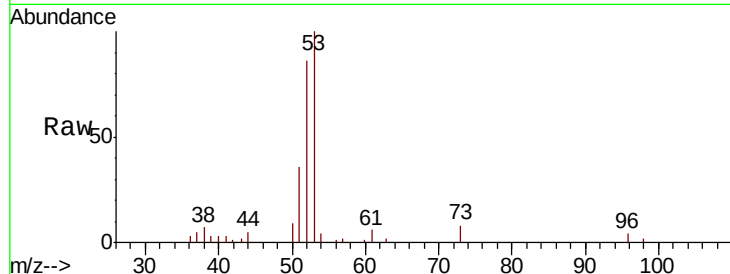
ClientSampled :

VSTDIC005

Tot Ion:	53	Resp:	69745
Ion	Ratio	Lower	Upper
53	100		
52	84.1	66.2	99.2
51	37.2	29.3	43.9

Manual Integrations
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#16

Acetone

Concen: 29.69 ug/l

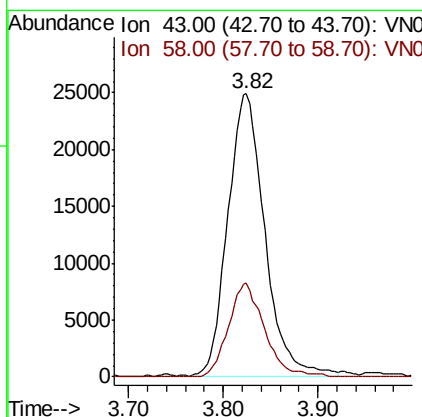
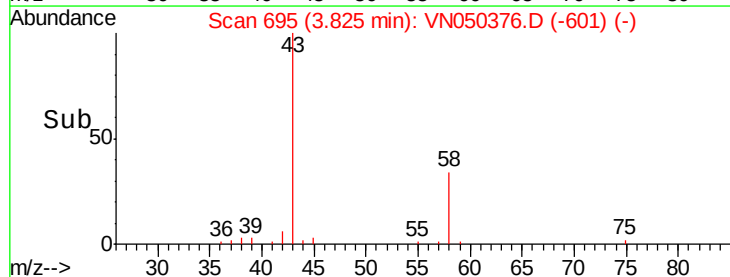
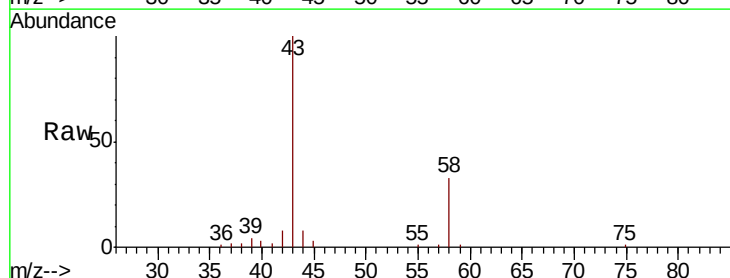
RT: 3.82 min Scan# 695

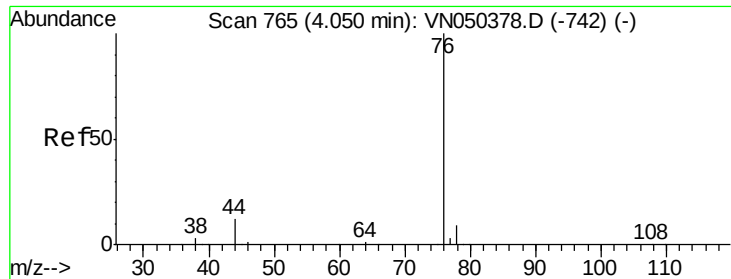
Delta R.T. 0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Tgt Ion:	43	Resp:	68115
Ion	Ratio	Lower	Upper
43	100		
58	33.3	25.8	38.8





#17

Carbon Disulfide

Concen: 5.14 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Tot Ion: 76 Resp: 114483

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9

Instrument :

MSVOA_N

ClientSampleId :

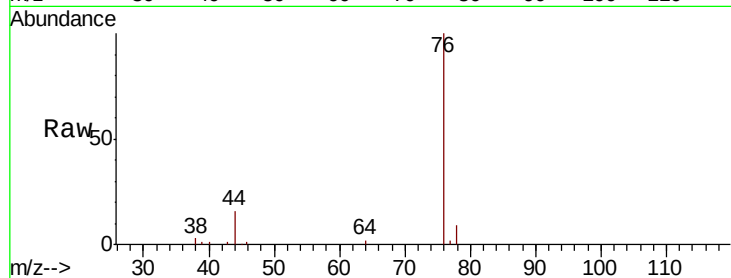
VSTDIC005

Manual Integrations

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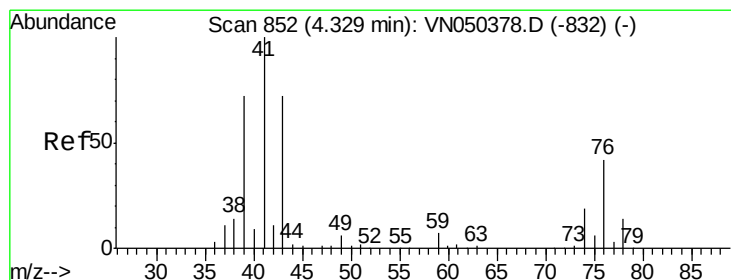
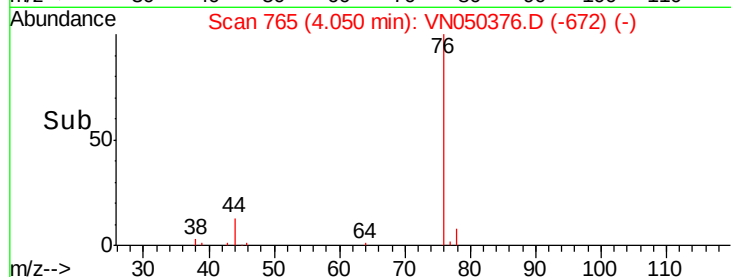
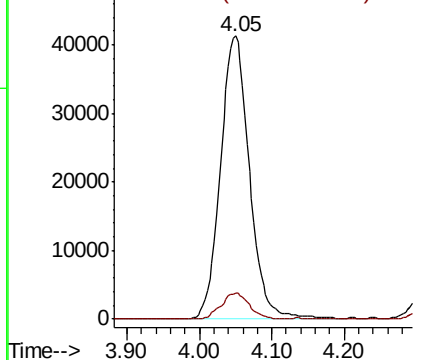
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 3.65 ug/l

RT: 4.33 min Scan# 852

Delta R.T. -0.00 min

Lab File: VN050376.D

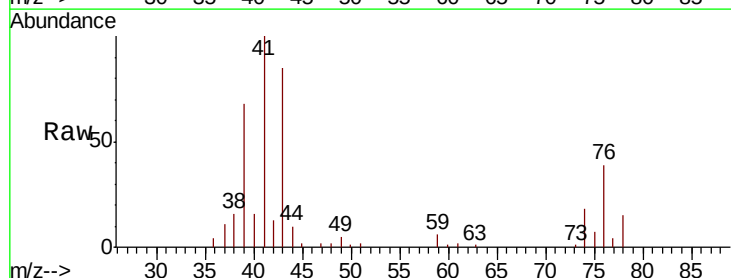
Acq: 6 Aug 2018 11:35

Tgt Ion: 43 Resp: 38315

Ion Ratio Lower Upper

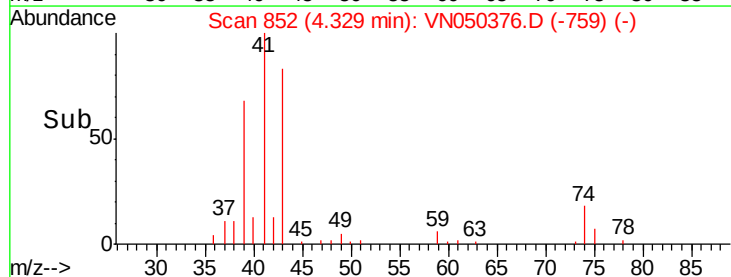
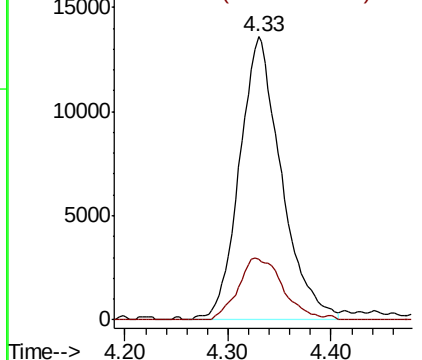
43 100

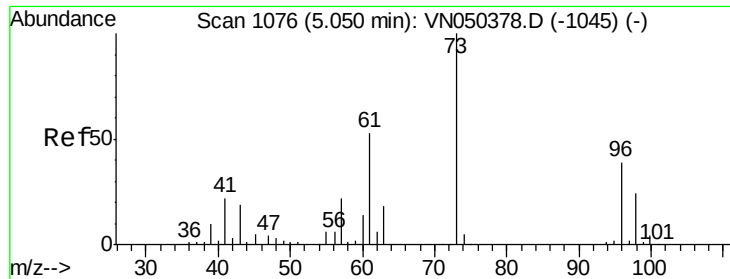
74 23.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





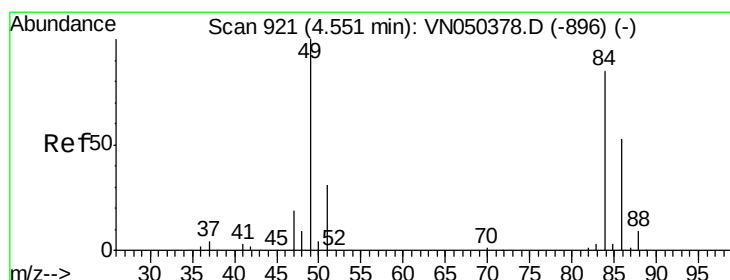
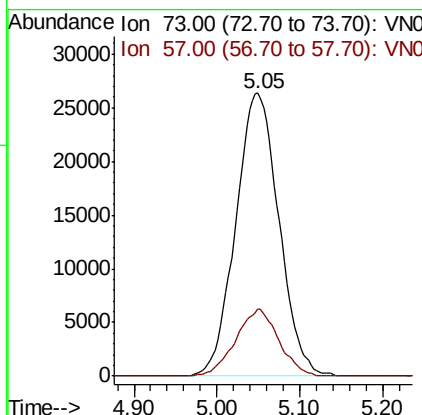
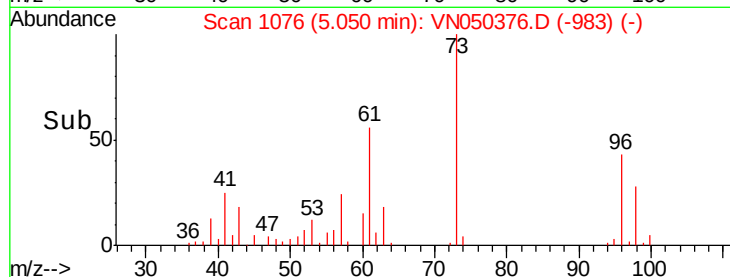
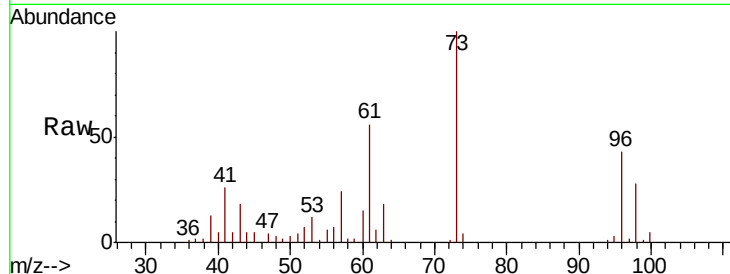
#19
Methyl tert-butyl Ether
Concen: 4.93 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 95394
Ion Ratio Lower Upper
73 100
57 23.8 18.0 27.0

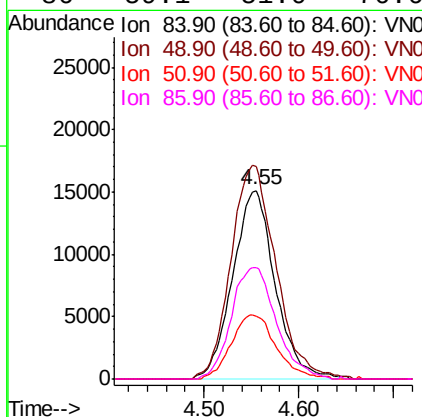
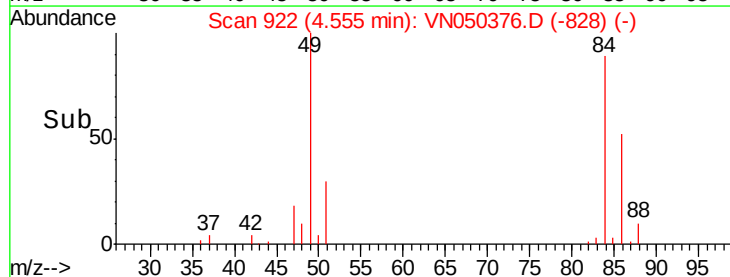
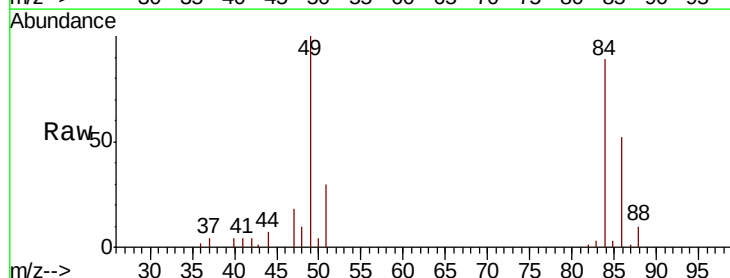
Manual Integrations
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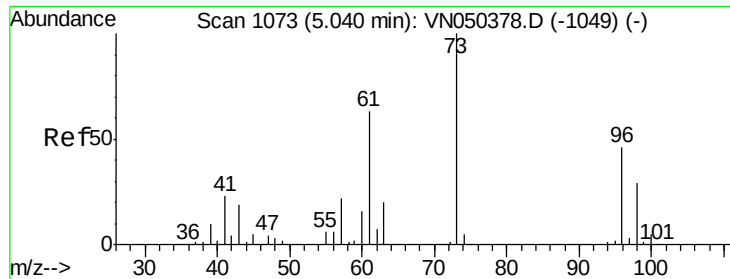
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#20
Methylene Chloride
Concen: 5.34 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion: 84 Resp: 47158
Ion Ratio Lower Upper
84 100
49 112.8 94.8 142.2
51 33.5 28.3 42.5
86 59.1 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 5.01 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

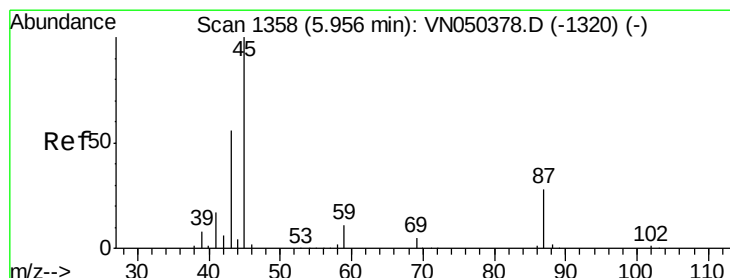
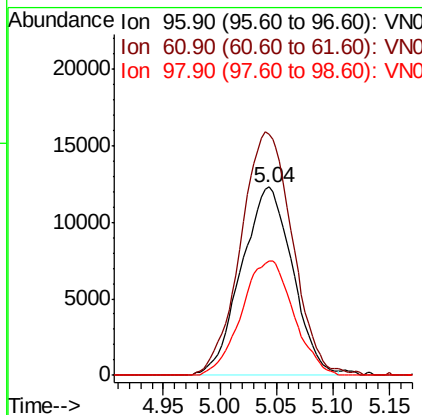
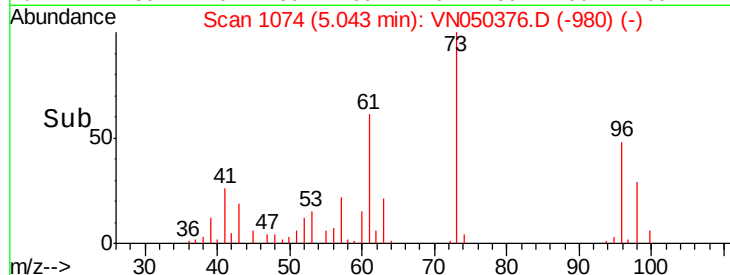
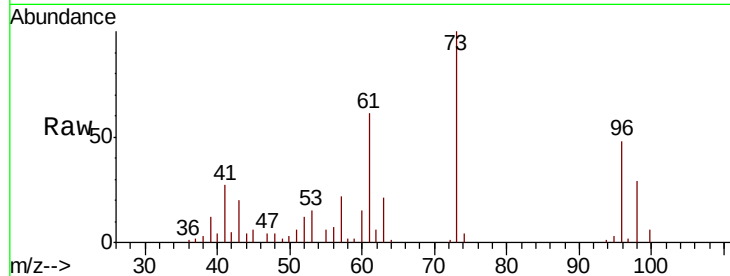
ClientSampled :

VSTDIC005

Tot Ion:	96	Resp:	38615
Ion	Ratio	Lower	Upper
96	100		
61	128.4	110.7	166.1
98	60.6	51.6	77.4

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#22

Diisopropyl ether

Concen: 4.93 ug/l

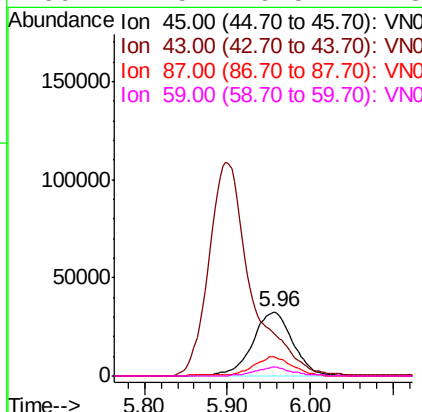
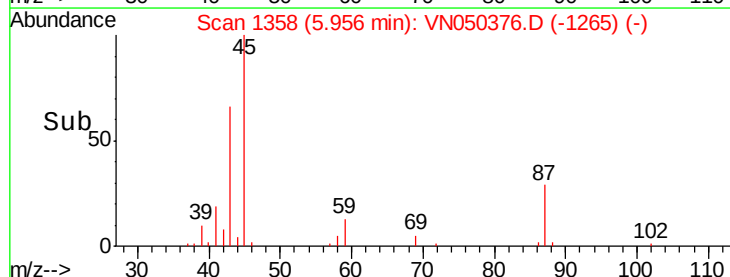
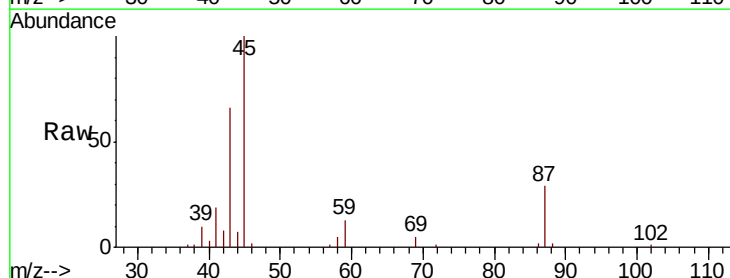
RT: 5.96 min Scan# 1358

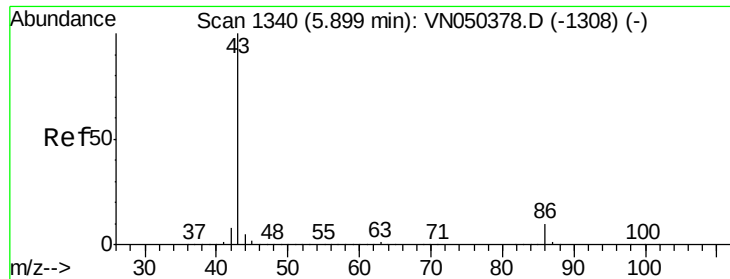
Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Tgt Ion:	45	Resp:	110200
Ion	Ratio	Lower	Upper
45	100		
43	62.5	45.7	68.5
87	29.4	22.7	34.1
59	12.5	9.5	14.3





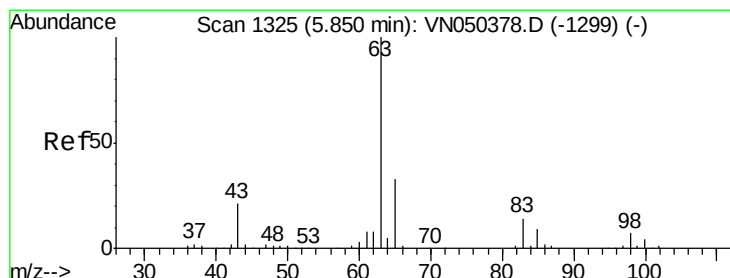
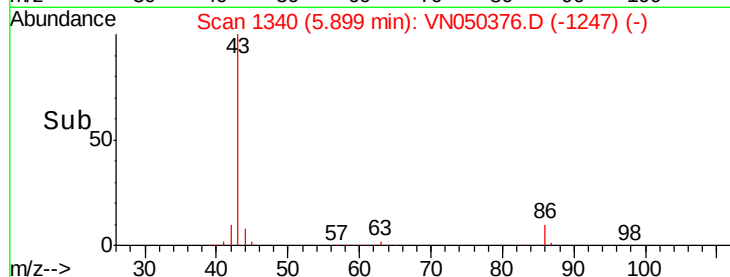
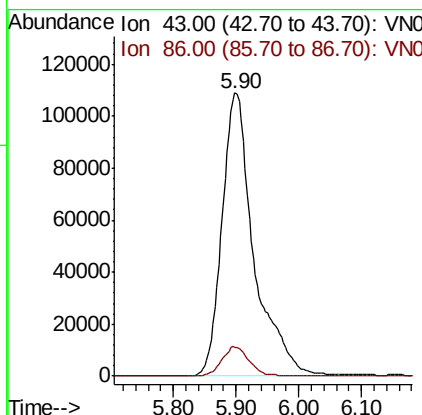
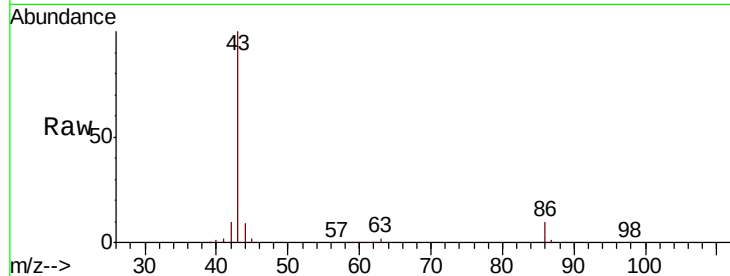
#23
 Vinyl Acetate
 Concen: 24.45 ug/l
 RT: 5.90 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	43	Resp	386032
Ion Ratio	100	Lower	Upper
43	100		
86	10.3	8.6	13.0

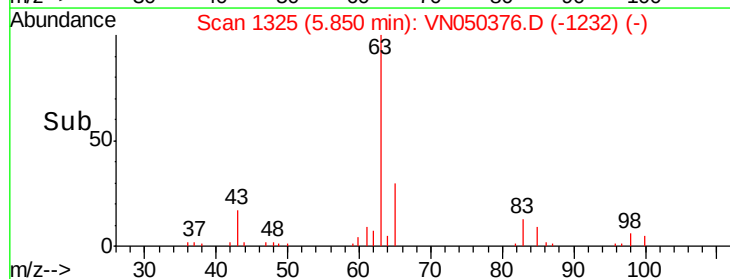
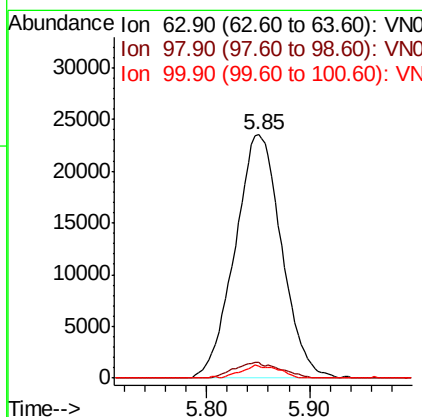
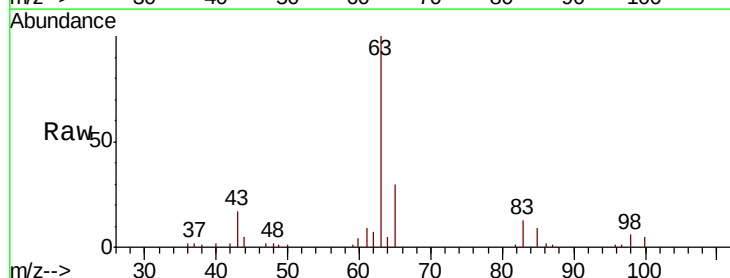
Manual Integrations
 APPROVED

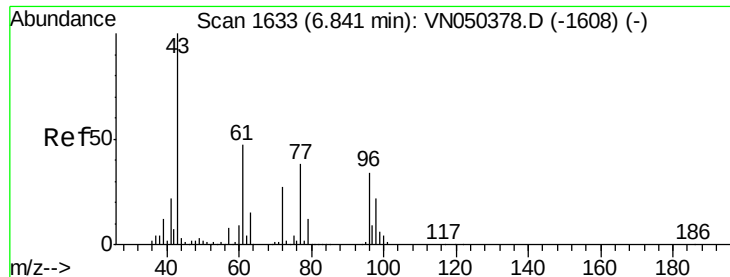
MMDadoda
 8/7/2018 9:57:54 AM



#24
 1,1-Dichloroethane
 Concen: 5.04 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion	63	Resp	73708
Ion Ratio	100	Lower	Upper
63	100		
98	6.3	3.3	9.8
100	5.1	2.1	6.3





#25

2-Butanone

Concen: 30.75 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 103192

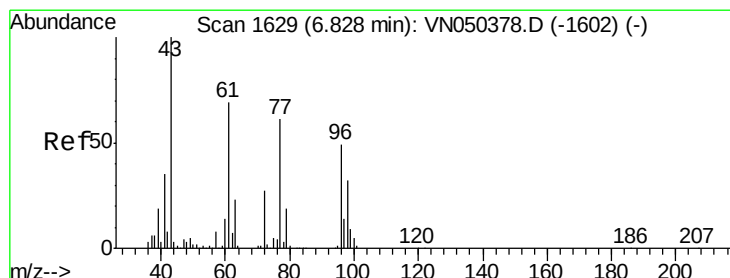
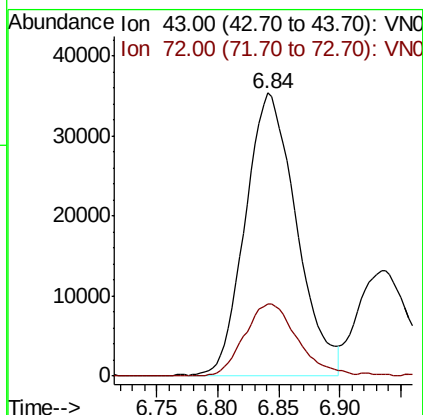
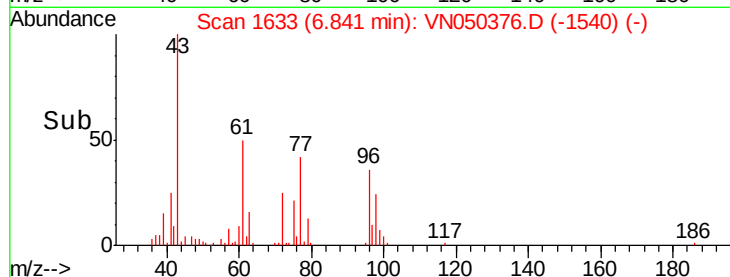
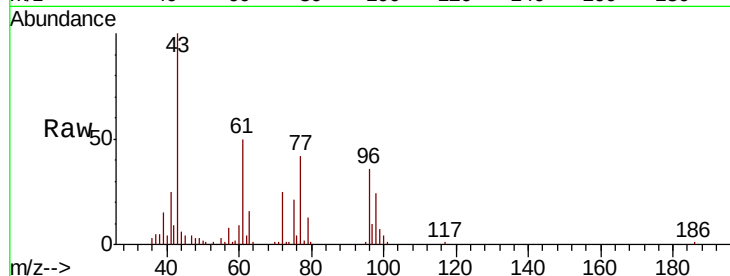
Ion Ratio Lower Upper

43 100

72 25.4 21.5 32.3

Manual Integrations
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MMDadoda
8/7/2018 9:57:54 AM



#26

2,2-Dichloropropane

Concen: 5.42 ug/l

RT: 6.82 min Scan# 1627

Delta R.T. -0.01 min

Lab File: VN050376.D

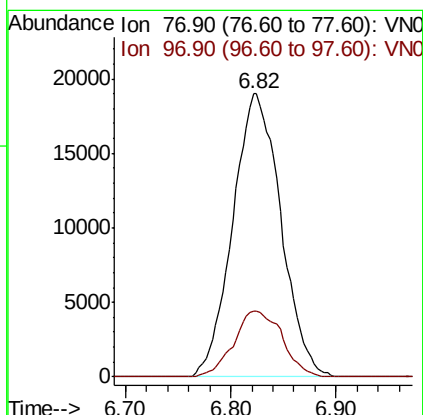
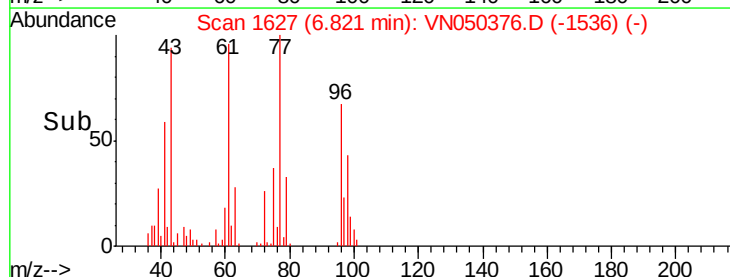
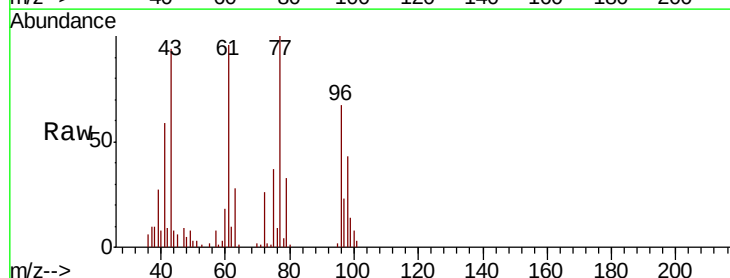
Acq: 6 Aug 2018 11:35

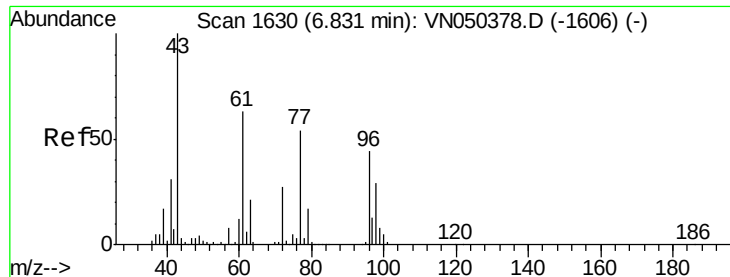
Tgt Ion: 77 Resp: 60225

Ion Ratio Lower Upper

77 100

97 23.4 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 5.03 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 96 Resp: 41663

Ion Ratio Lower Upper

96 100

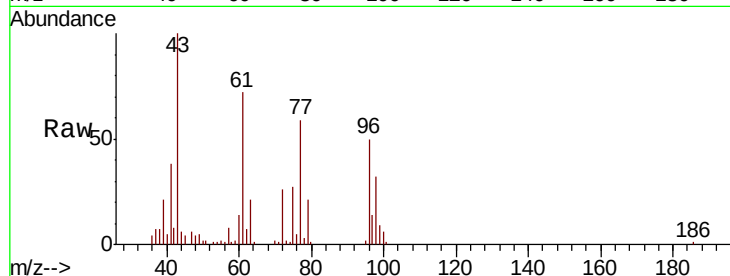
61 146.2 0.0 285.0

98 65.1 0.0 129.2

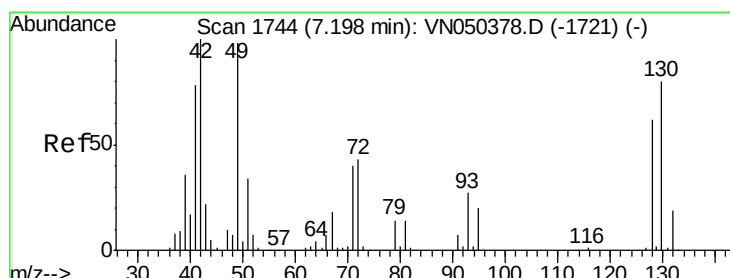
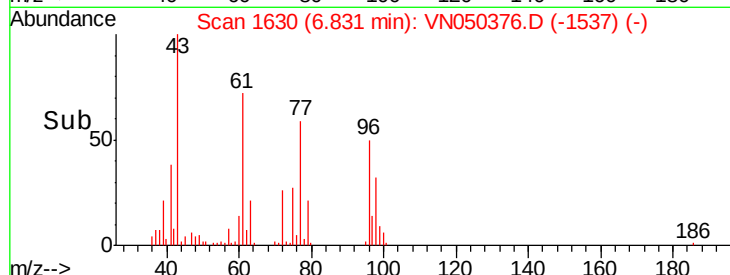
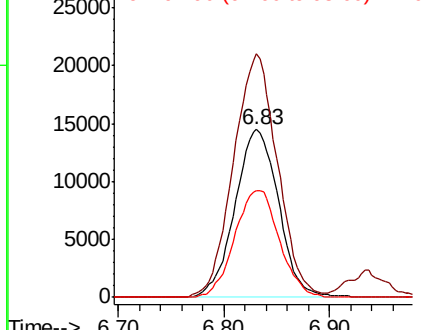
Manual Integrations
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8/7/2018 9:57:54 AM



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 4.96 ug/l

RT: 7.19 min Scan# 1743

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

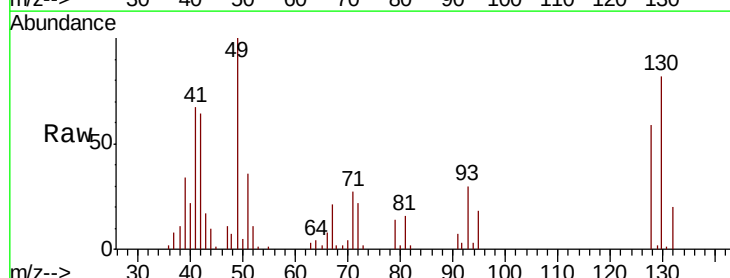
Tgt Ion: 49 Resp: 33053

Ion Ratio Lower Upper

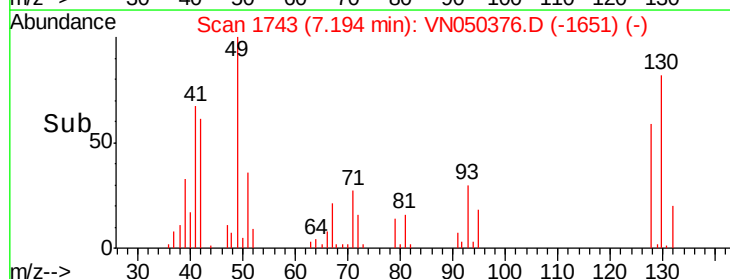
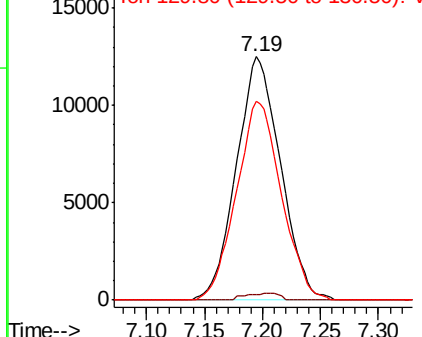
49 100

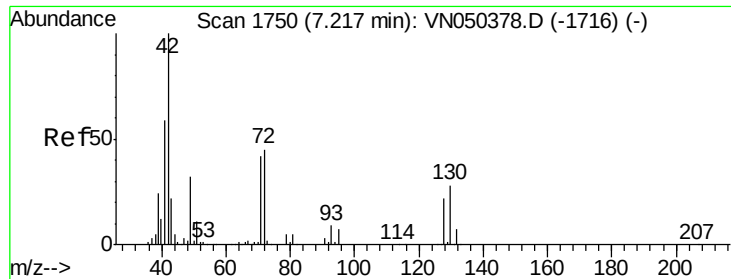
129 2.1 0.0 4.0

130 83.0 66.3 99.5



Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





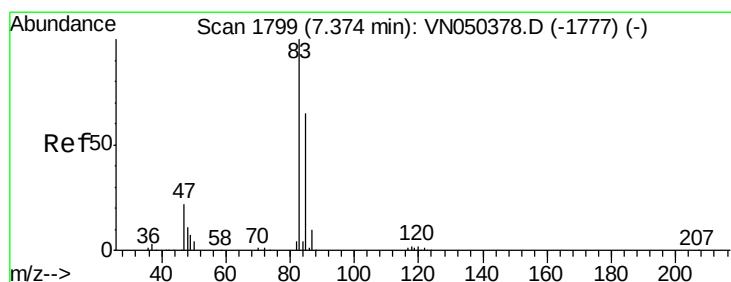
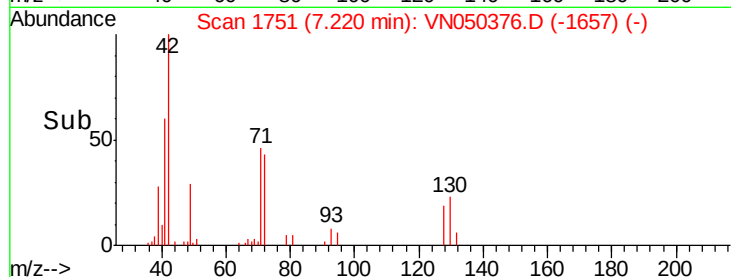
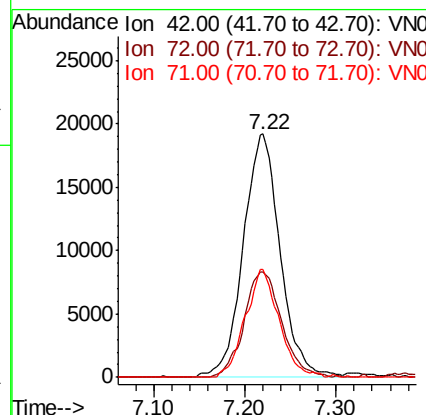
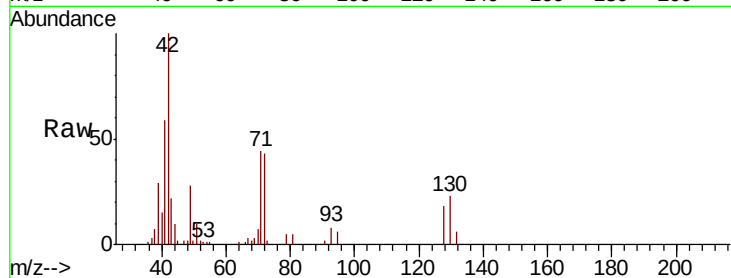
#29
Tetrahydrofuran
Concen: 24.95 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.2	35.9	53.9
71	40.9	33.7	50.5

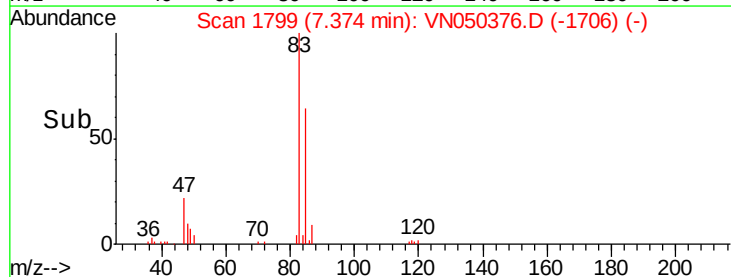
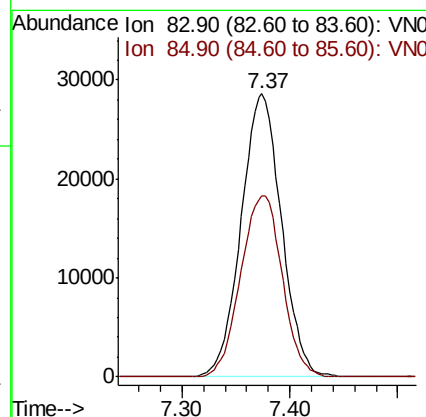
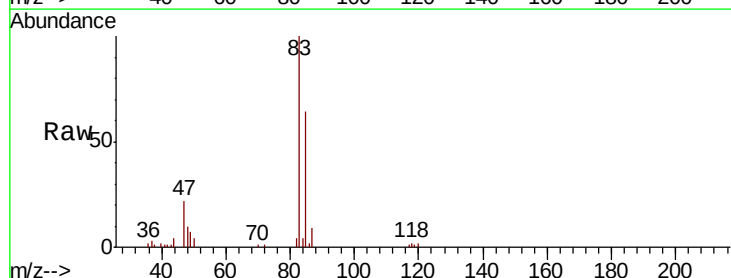
Manual Integrations
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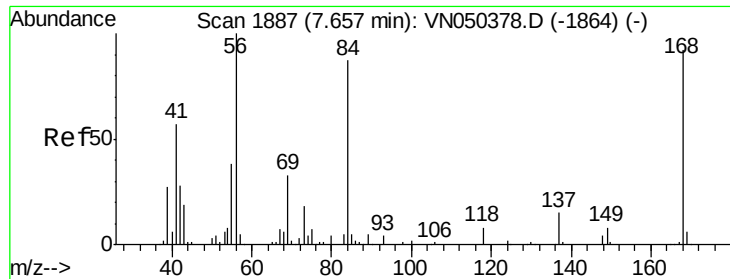
MMDadoda
8/7/2018 9:57:54 AM



#30
Chloroform
Concen: 4.98 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.5	78.7





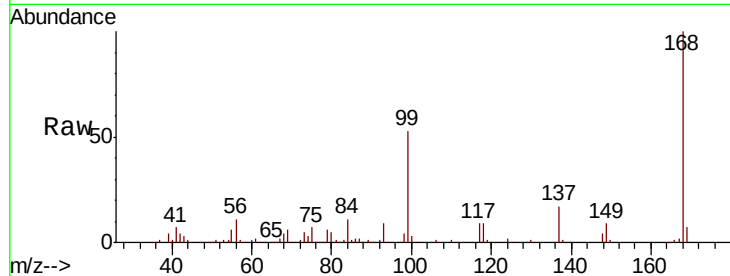
#31
Cyclohexane
Concen: 4.75 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	55.4	26.2	39.4#
84	94.4	67.4	101.0

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8/7/2018 9:57:54 AM

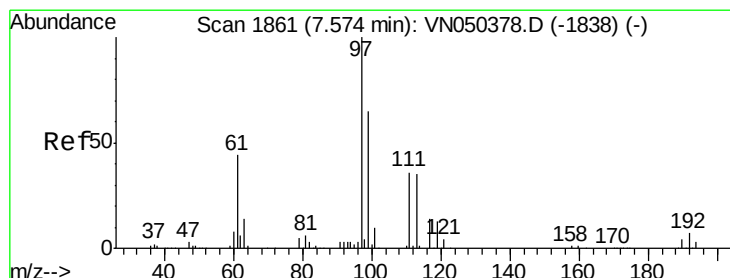
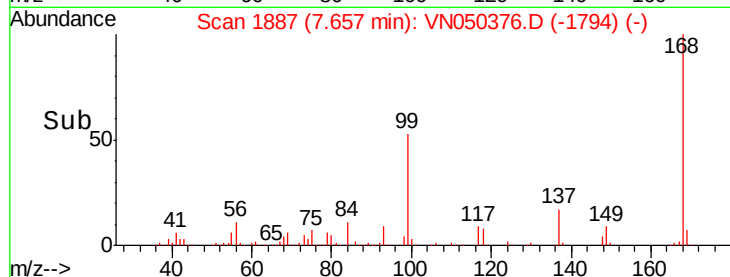
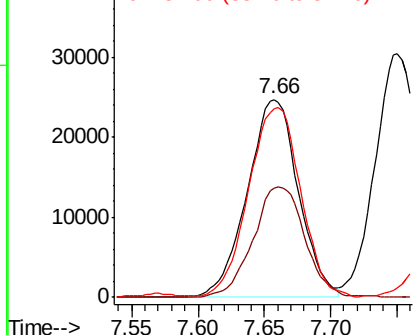


Abundance

Ion 56.00 (55.70 to 56.70): VN0

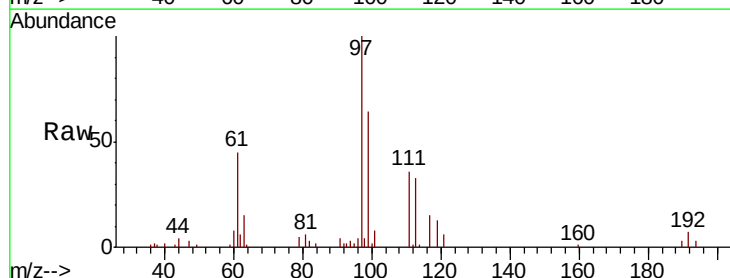
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32
1,1,1-Trichloroethane
Concen: 4.98 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.4	77.0
61	43.7	35.4	53.0

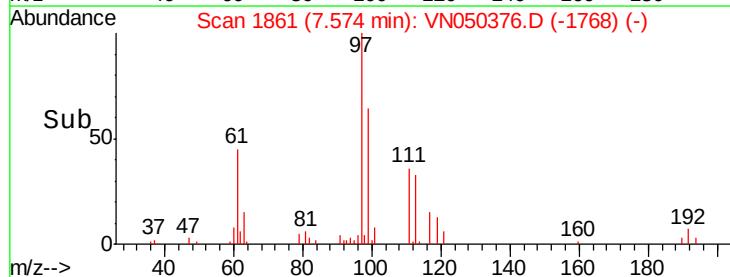
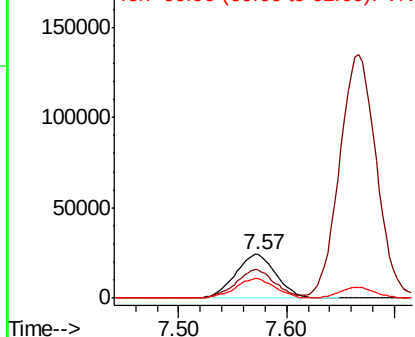


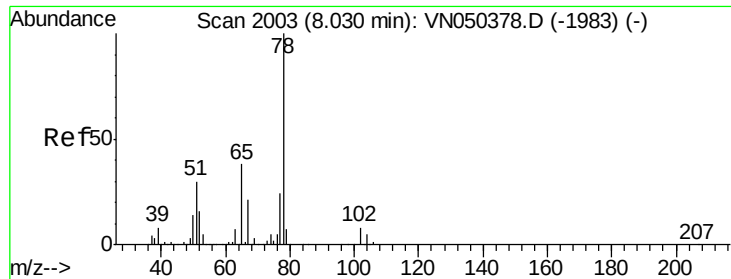
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





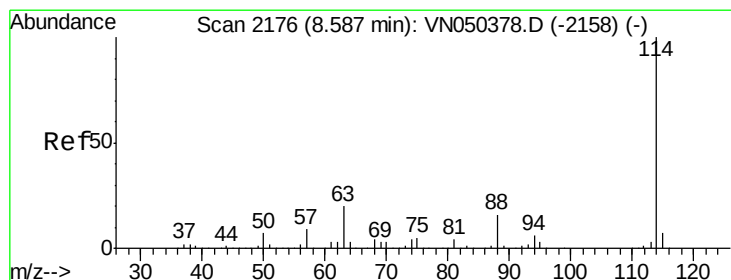
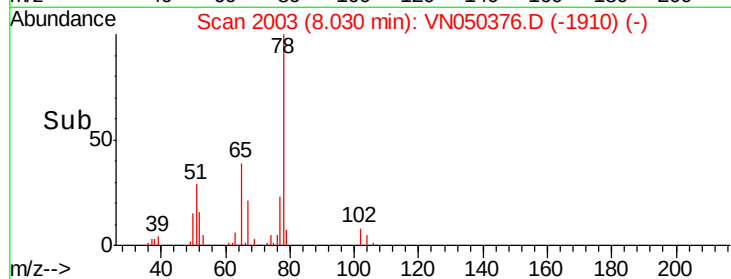
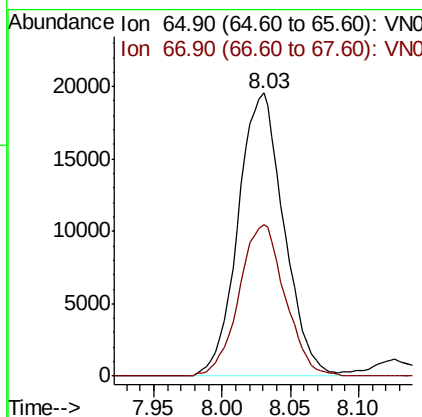
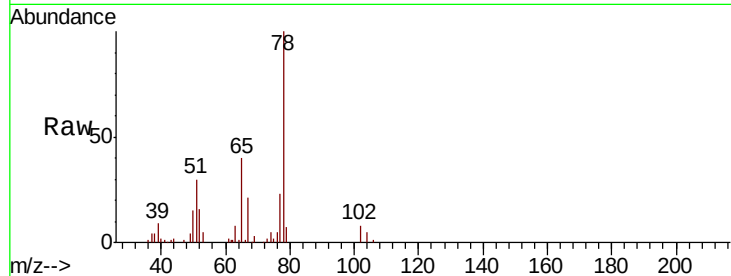
#33
 1,2-Dichloroethane-d4
 Concen: 5.18 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	108.4

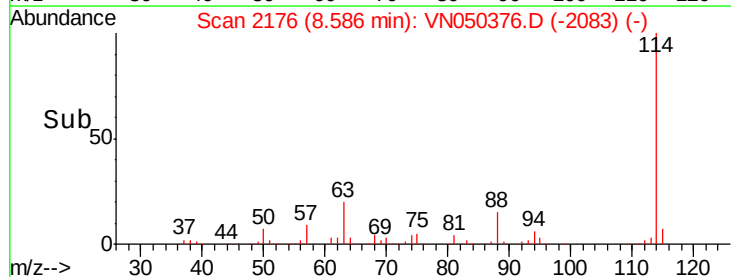
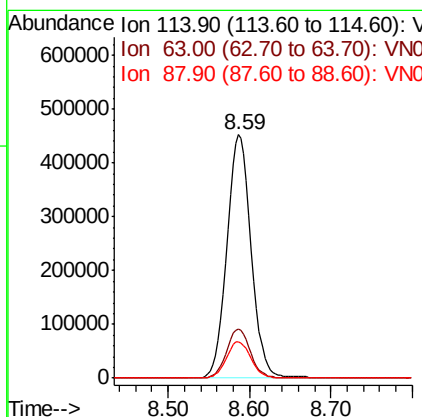
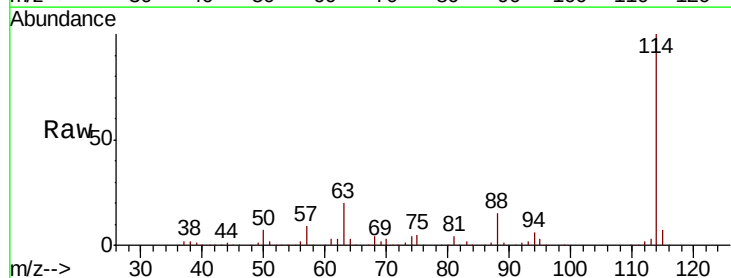
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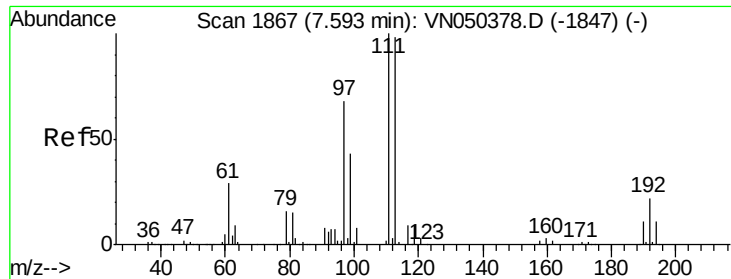
MMDadoda
 8/7/2018 9:57:54 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	40.0
88	15.0	0.0	31.2





#35

Dibromofluoromethane

Concen: 5.05 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

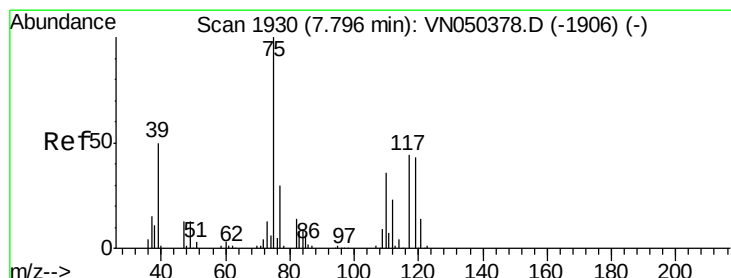
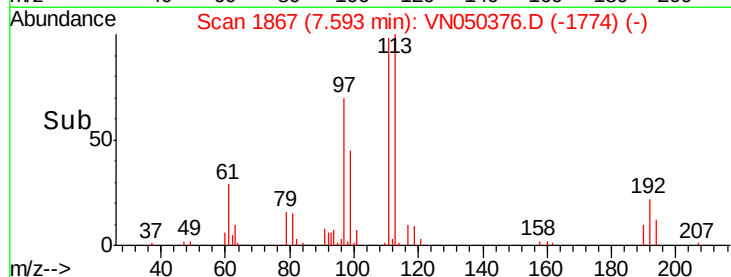
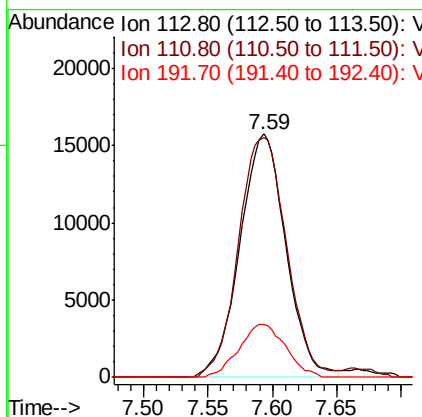
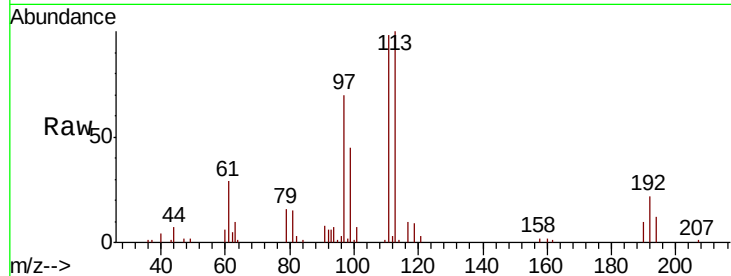
ClientSampleId :

VSTDIC005

Tot Ion:	113	Resp:	39124
Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.7	121.1
192	22.0	17.8	26.6

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#36

1,1-Dichloropropene

Concen: 4.96 ug/l

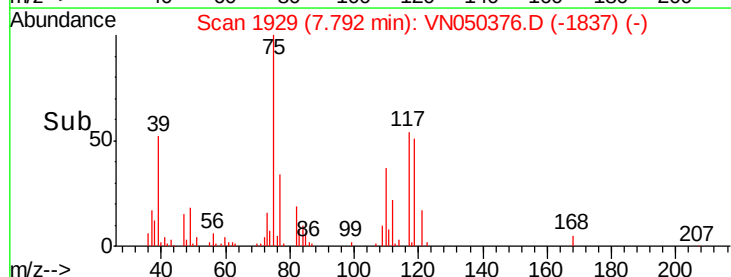
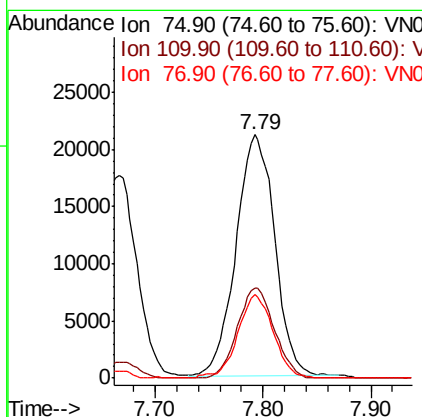
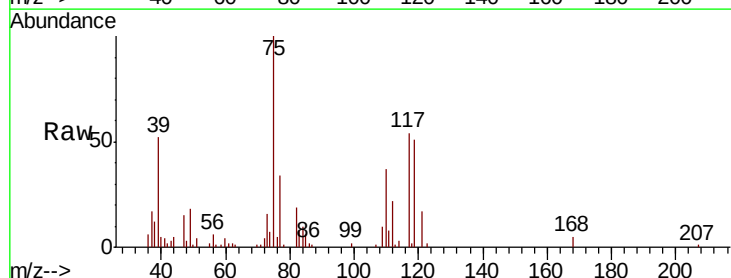
RT: 7.79 min Scan# 1929

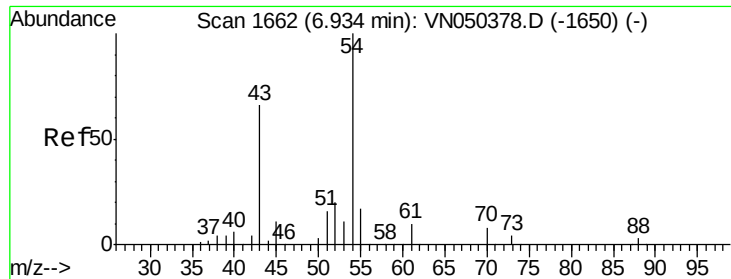
Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Tgt Ion:	75	Resp:	52945
Ion	Ratio	Lower	Upper
75	100		
110	35.3	18.4	55.2
77	31.6	25.3	37.9





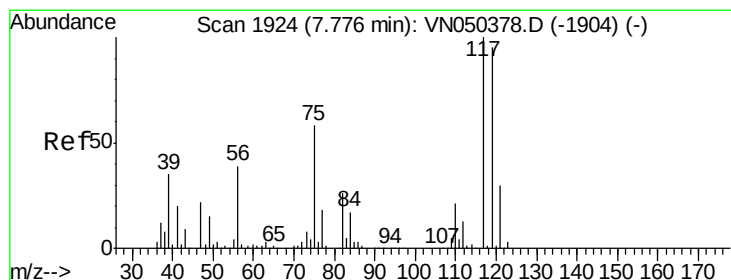
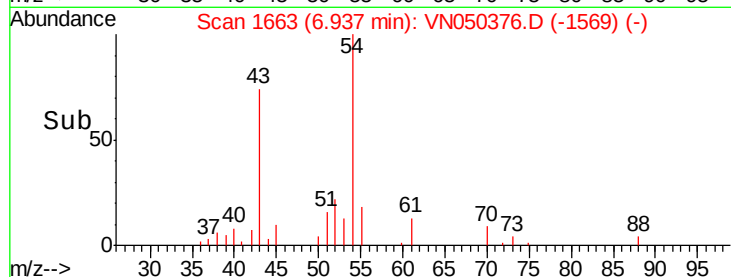
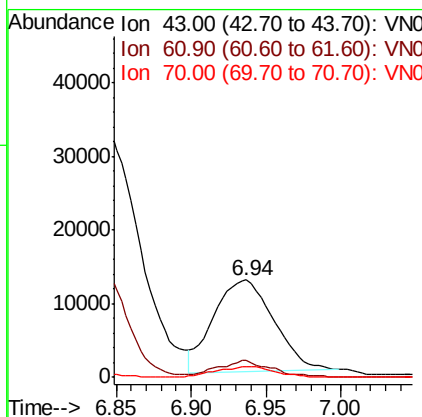
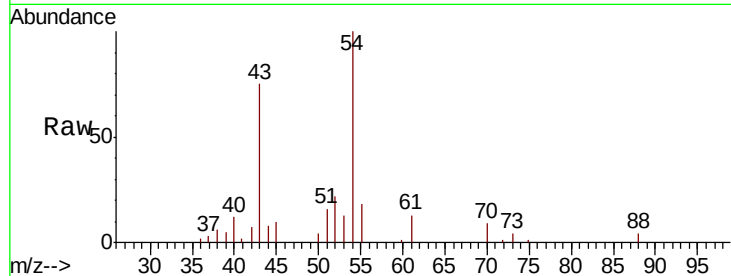
#37
Ethyl Acetate
Concen: 4.69 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.8	11.8	17.8
70	11.2	8.4	12.6

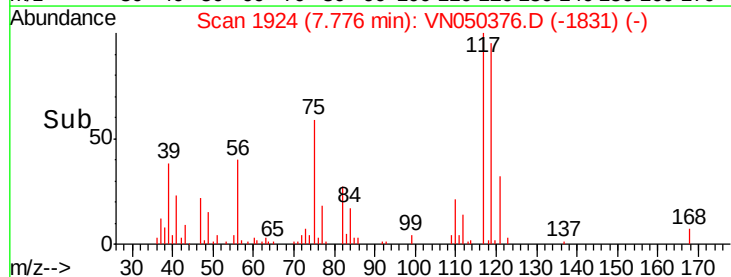
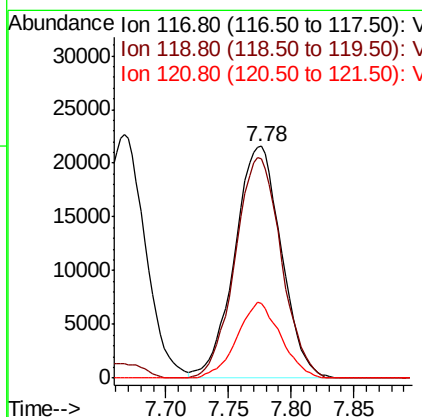
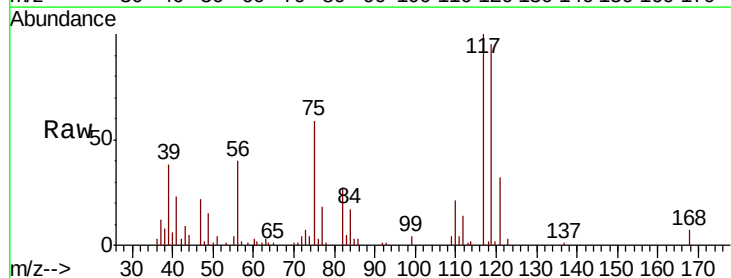
Manual Integrations
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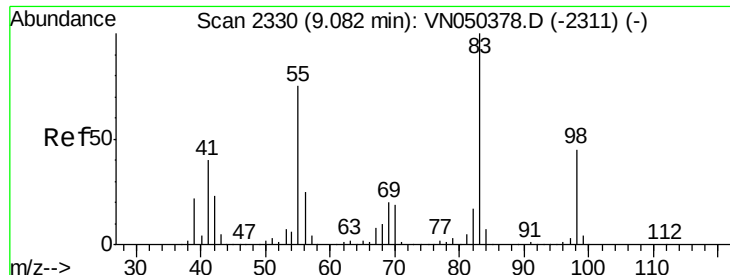
MMDadoda
8/7/2018 9:57:54 AM



#38
Carbon Tetrachloride
Concen: 4.92 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.4	116.0
121	32.4	23.9	35.9





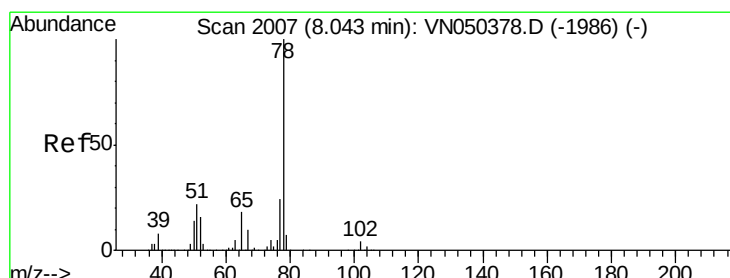
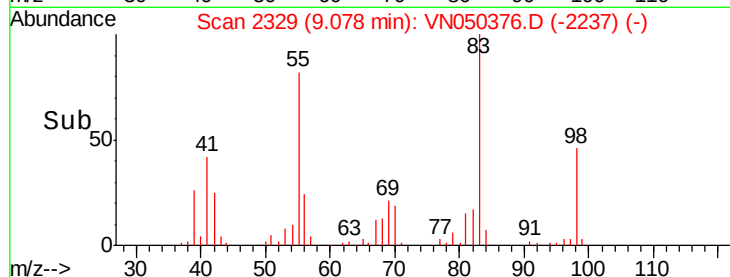
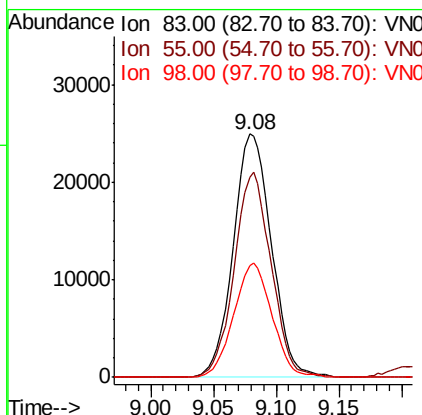
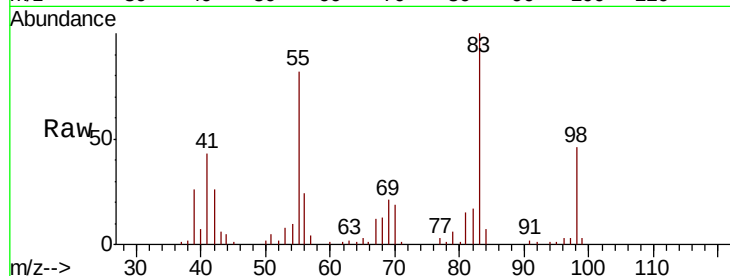
#39
Methylvlcyclohexane
Concen: 4.81 ug/l
RT: 9.08 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83.00	Resp	52900
Ion Ratio	100	Lower	Upper
83	100		
55	82.0	61.8	92.8
98	45.9	36.5	54.7

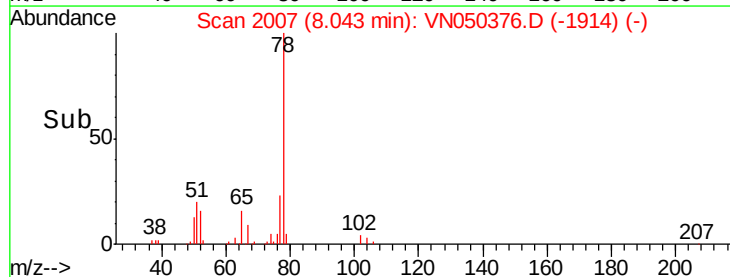
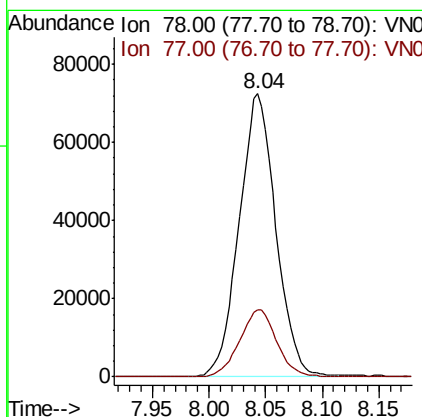
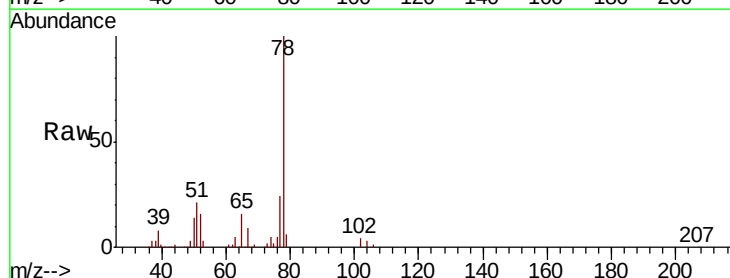
Manual Integrations
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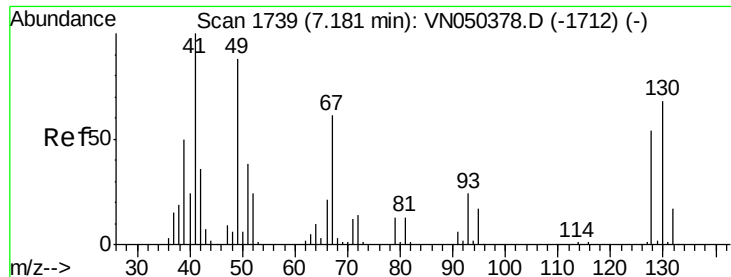
MMDadoda
8/7/2018 9:57:54 AM



#40
Benzene
Concen: 5.04 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	78.00	Resp	163680
Ion Ratio	100	Lower	Upper
78	100		
77	23.8	18.7	28.1





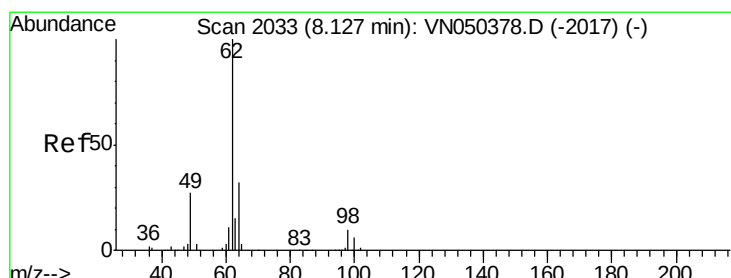
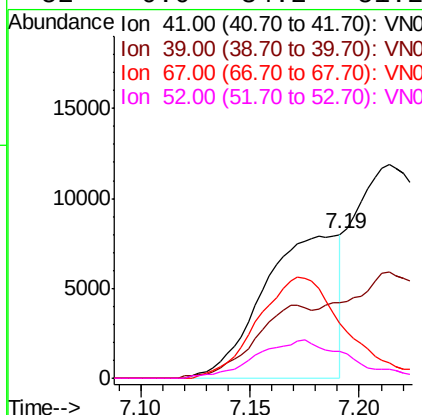
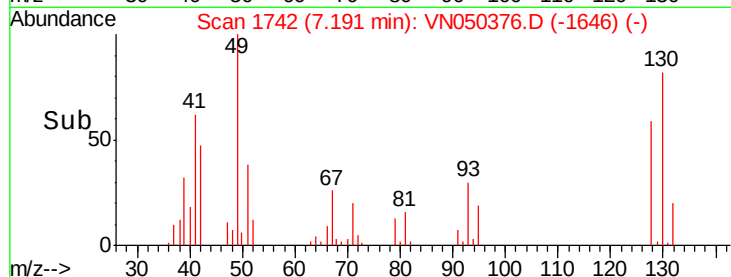
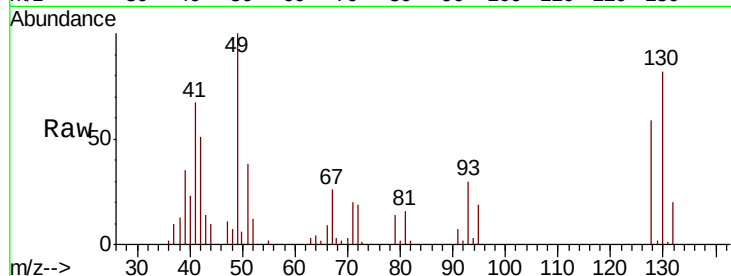
#41
Methacrylonitrile
Concen: 5.53 ug/l m
RT: 7.19 min Scan# 1742
Delta R.T. 0.01 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	19307
Ion	Ratio	Lower	Upper
41	100		
39	57.8	55.8	83.6
67	0.0	84.3	126.5#
52	0.0	34.2	51.2#

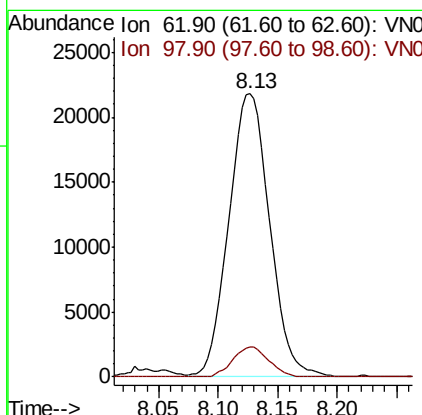
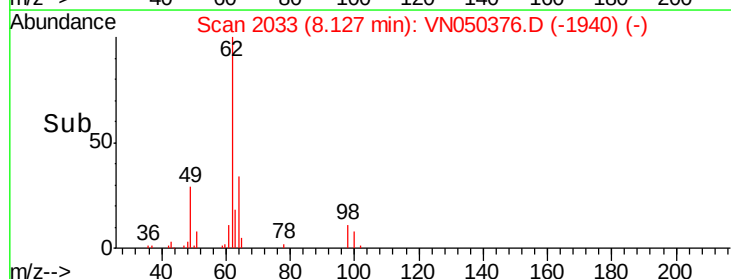
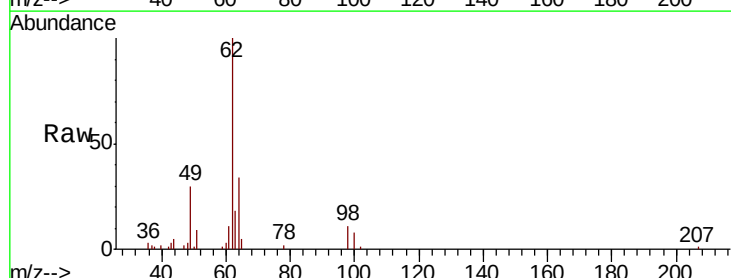
Manual Integrations
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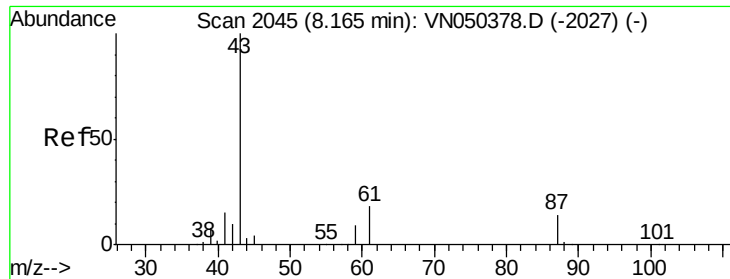
MMDadoda
8/7/2018 9:57:54 AM



#42
1,2-Dichloroethane
Concen: 4.79 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion:	62	Resp:	51949
Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.8





#43

Isopropyl Acetate

Concen: 3.71 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

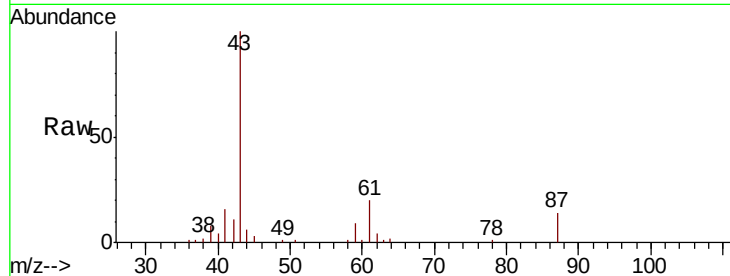
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	66885
Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.8	23.6
87	12.5	10.3	15.5

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MMDadoda
8/7/2018 9:57:54 AM

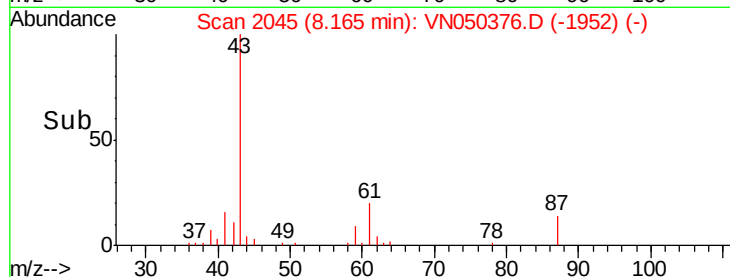


Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-2027) (-)

Ion 61.00 (60.70 to 61.70): VN050378.D (-2027) (-)

Ion 87.00 (86.70 to 87.70): VN050378.D (-2027) (-)

Time-->



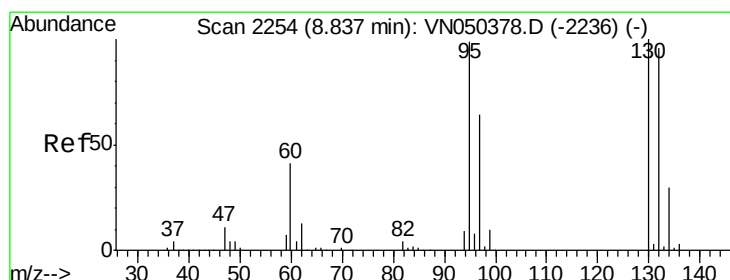
Abundance

Ion 43.00 (42.70 to 43.70): VN050378.D (-2027) (-)

Ion 61.00 (60.70 to 61.70): VN050378.D (-2027) (-)

Ion 87.00 (86.70 to 87.70): VN050378.D (-2027) (-)

Time-->



#44

Trichloroethene

Concen: 4.95 ug/l

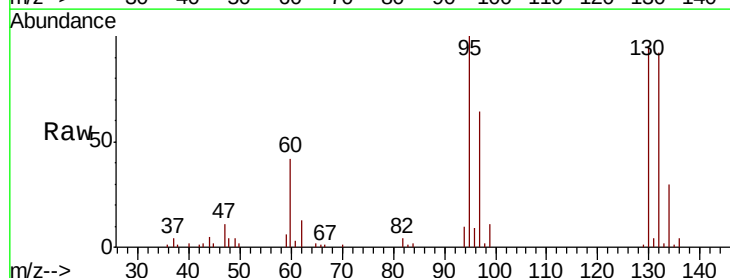
RT: 8.84 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

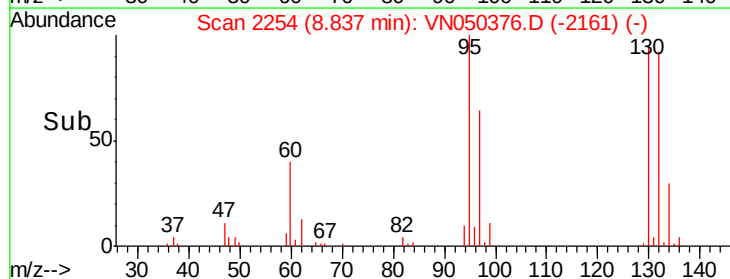
Tgt Ion:	130	Resp:	43237
Ion	Ratio	Lower	Upper
130	100		
95	105.0	0.0	194.6



Abundance Ion 129.80 (129.50 to 130.50): VN050378.D (-2236) (-)

Ion 94.90 (94.60 to 95.60): VN050378.D (-2236) (-)

Time-->

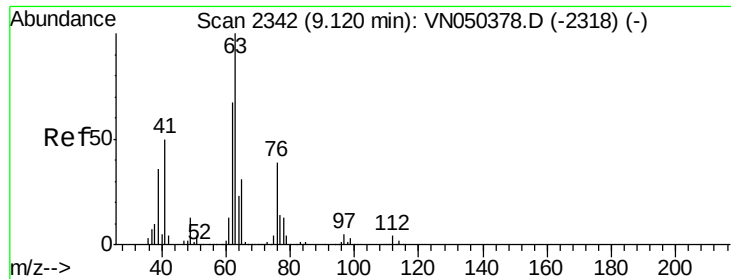


Abundance

Ion 129.80 (129.50 to 130.50): VN050378.D (-2236) (-)

Ion 94.90 (94.60 to 95.60): VN050378.D (-2236) (-)

Time-->



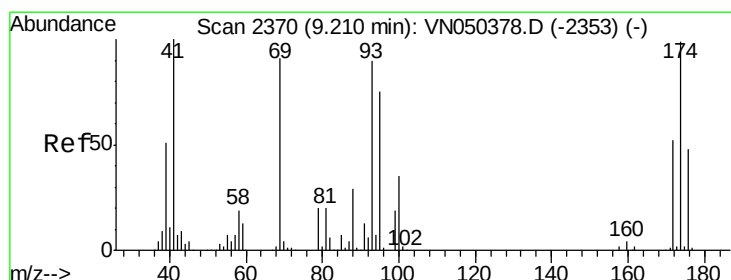
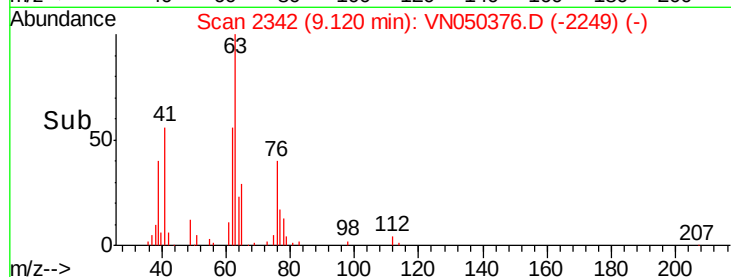
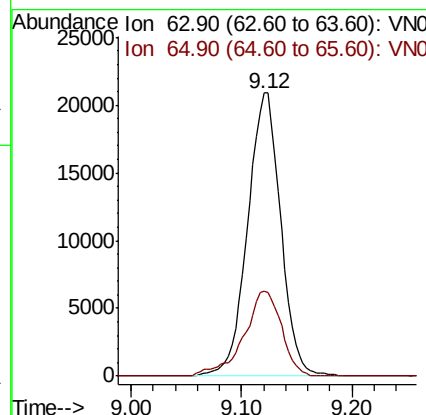
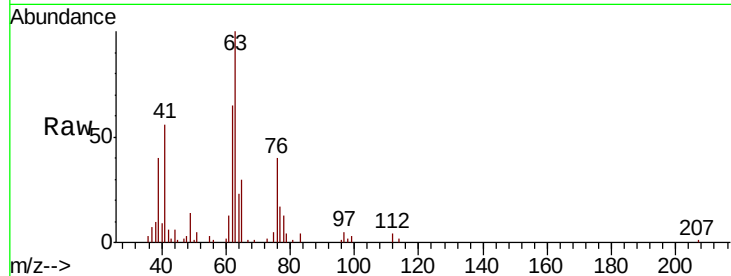
#45
 1,2-Dichloropropane
 Concen: 5.05 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 43507
 Ion Ratio Lower Upper
 63 100
 65 30.2 25.5 38.3

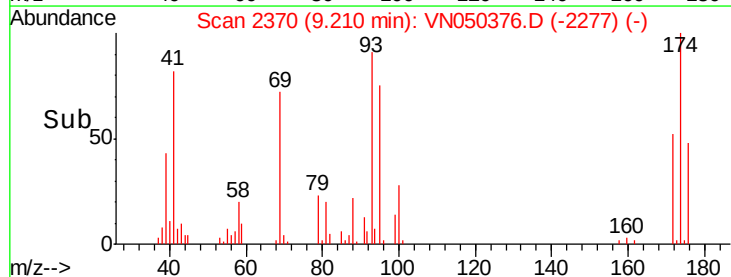
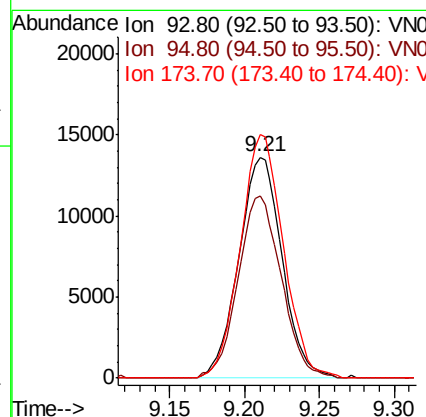
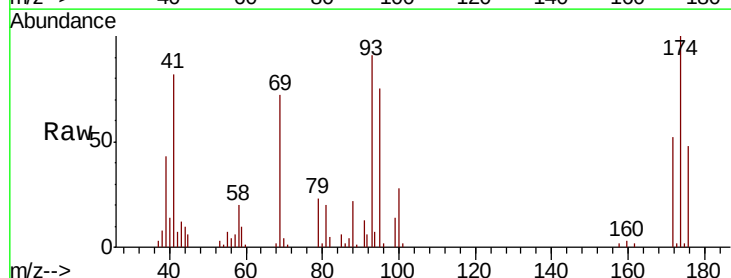
Manual Integrations
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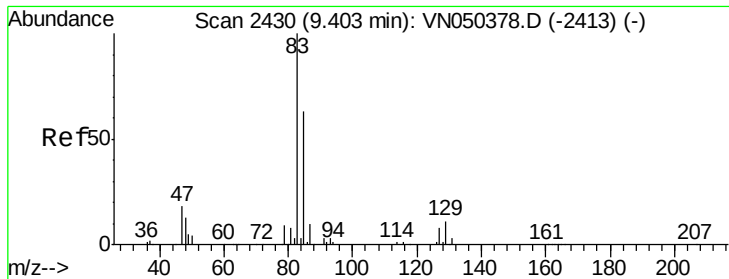
MMDadoda
 8/7/2018 9:57:54 AM



#46
 Dibromomethane
 Concen: 5.14 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion: 93 Resp: 27476
 Ion Ratio Lower Upper
 93 100
 95 82.1 66.6 100.0
 174 109.5 87.1 130.7





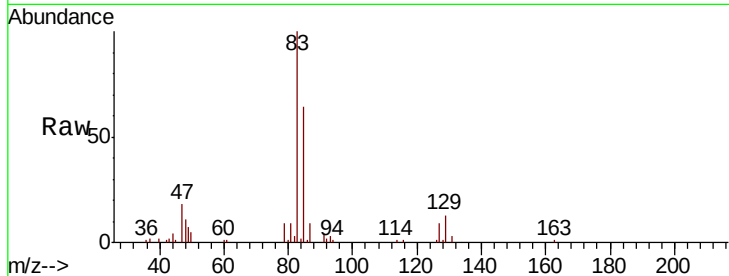
#47
Bromodichloromethane
Concen: 4.96 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

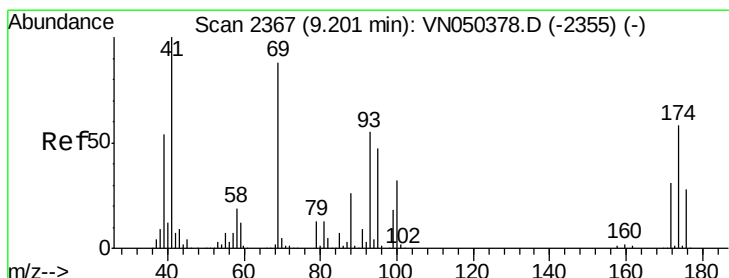
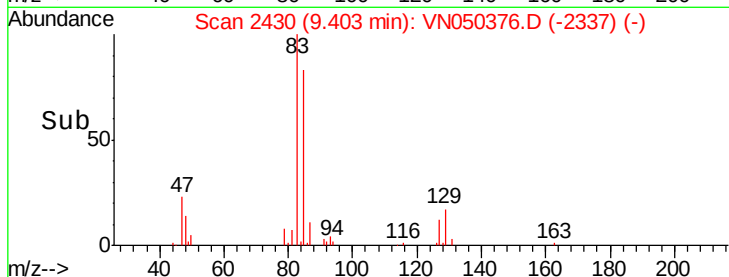
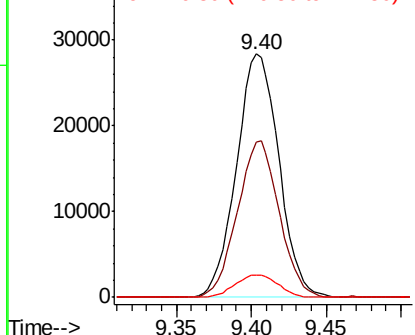
Tot Ion	83	Resp	56007
Ion Ratio	100	Lower	Upper
83	100		
85	63.5	51.1	76.7
127	9.2	7.0	10.4

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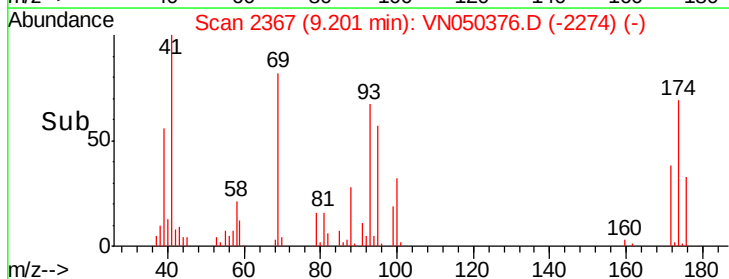
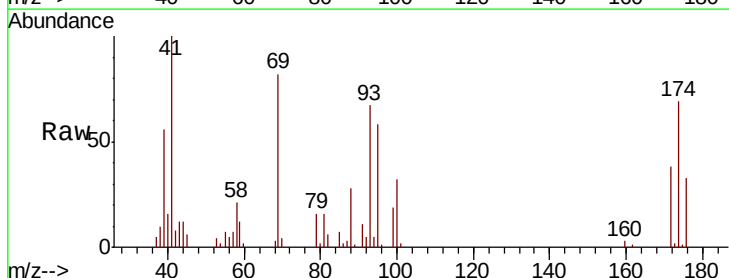
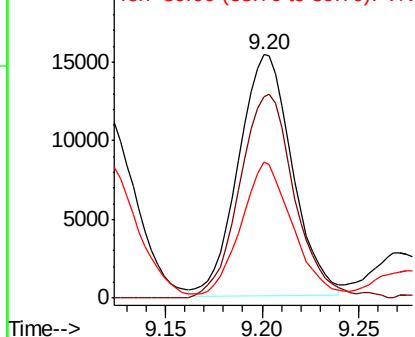
Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

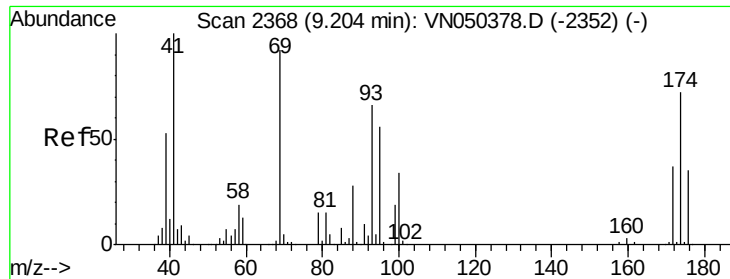


#48
Methyl methacrylate
Concen: 4.65 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	41	Resp	29793
Ion Ratio	100	Lower	Upper
41	100		
69	86.1	70.6	105.8
39	54.7	43.9	65.9

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





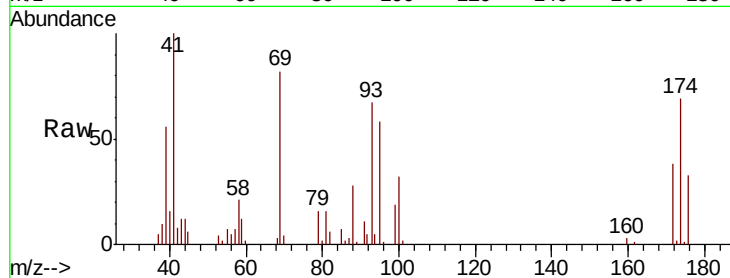
#49
 1,4-Dioxane
 Concen: 98.88 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.5	26.9	40.3
58	82.5	57.3	85.9

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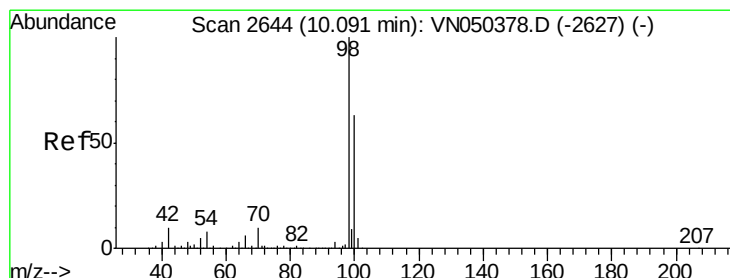
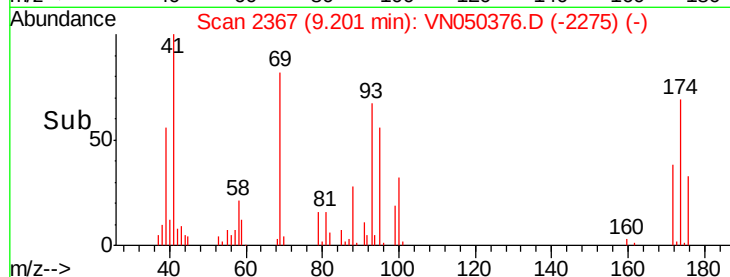
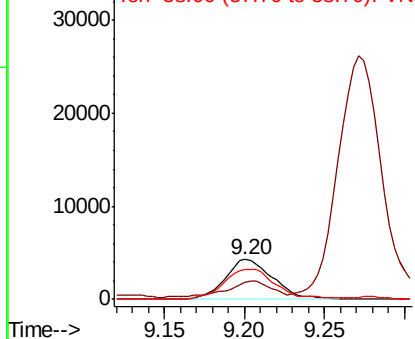


Abundance

Ion 88.00 (87.70 to 88.70): VN0

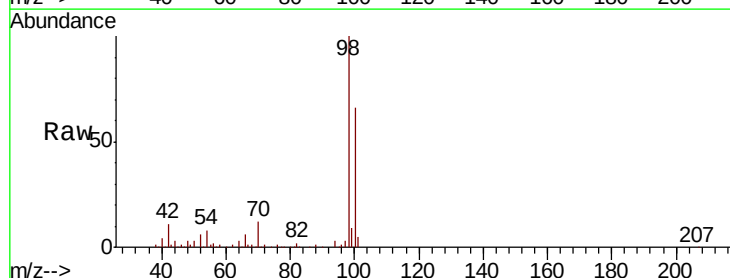
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
 Toluene-d8
 Concen: 4.84 ug/l
 RT: 10.09 min Scan# 2644
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

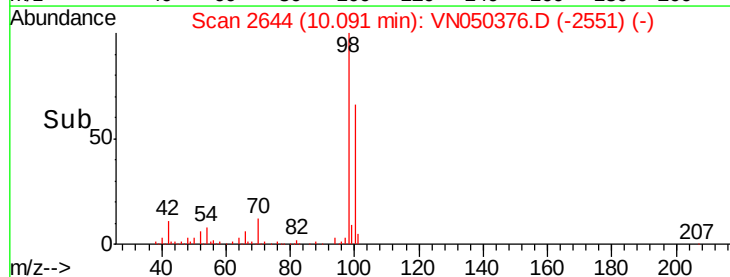
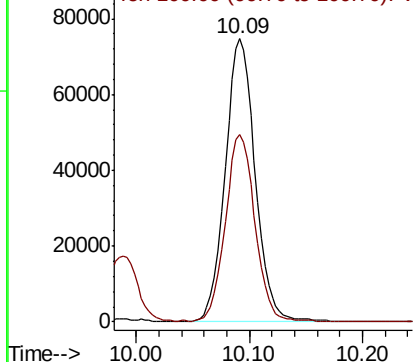
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	50.7	76.1

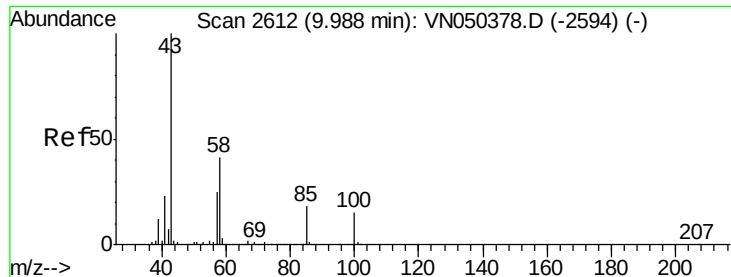


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





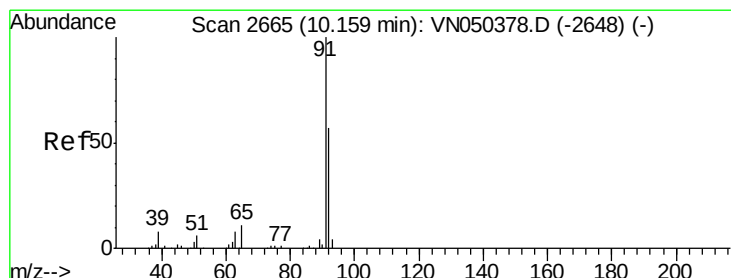
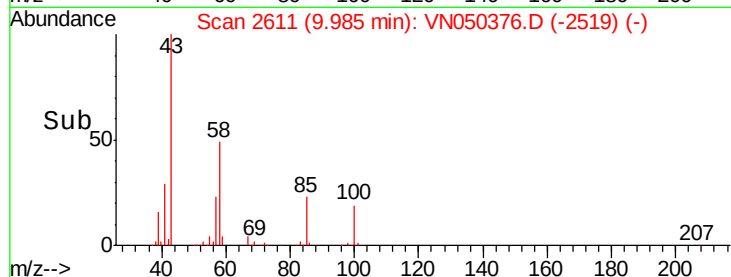
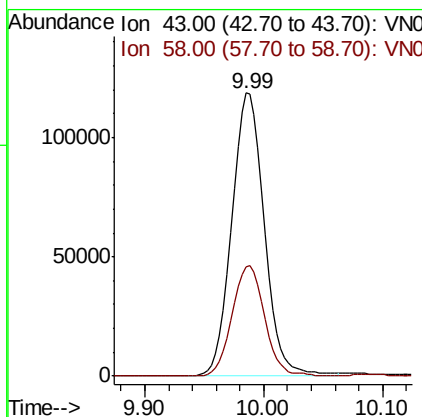
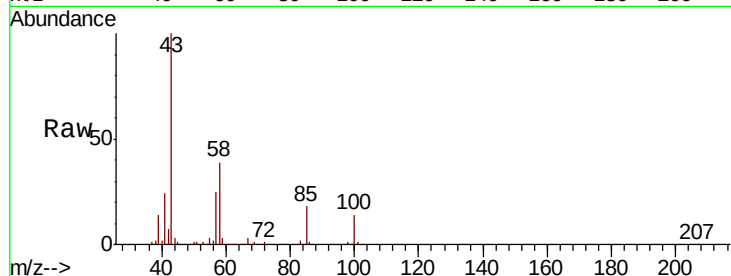
#51
 4-Methyl-2-Pentanone
 Concen: 30.58 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.9	47.9

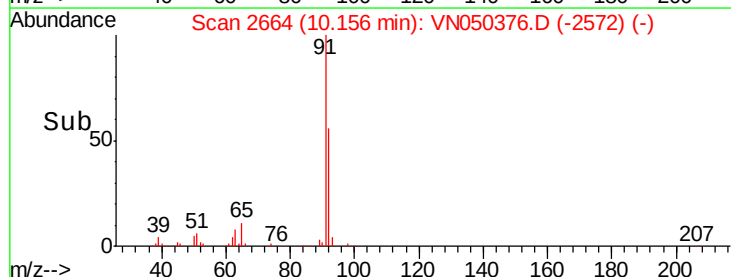
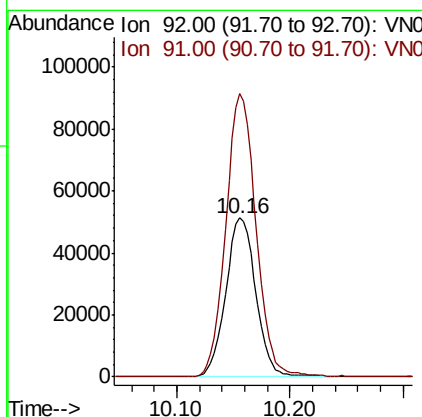
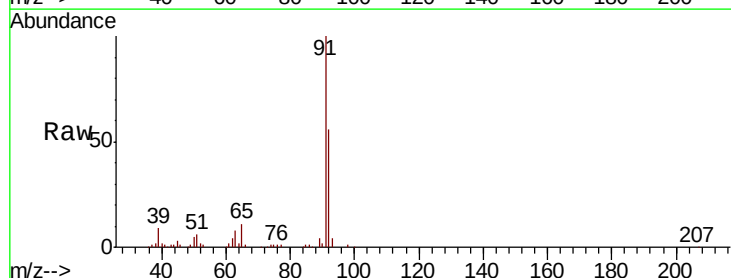
Manual Integrations
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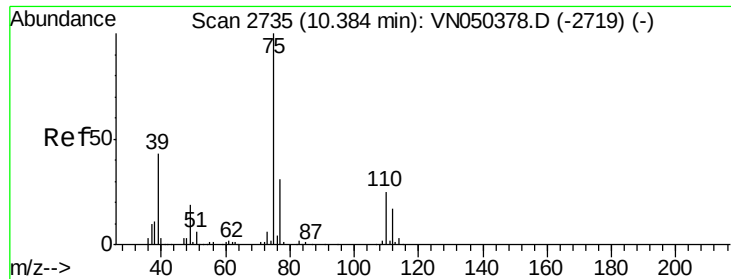
MMDadoda
 8/7/2018 9:57:54 AM



#52
 Toluene
 Concen: 4.97 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
92	100		
91	178.1	140.3	210.5





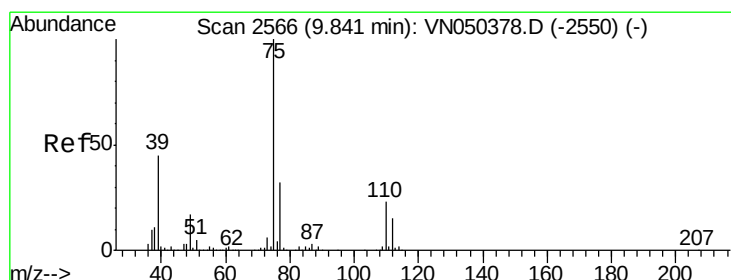
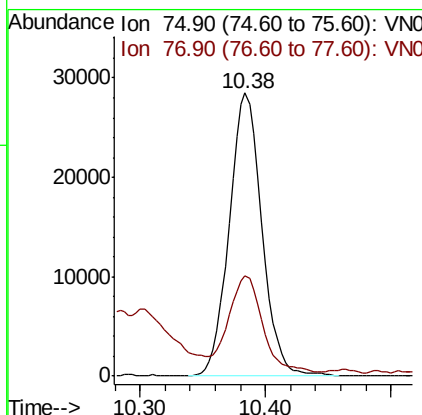
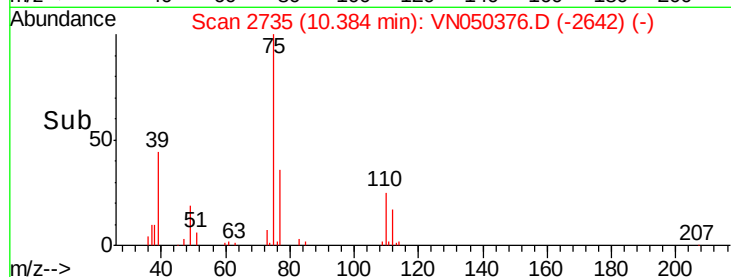
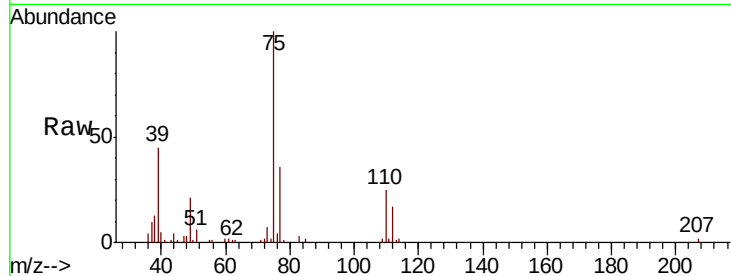
#53
t-1,3-Dichloropropene
Concen: 4.84 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 51508
Ion Ratio Lower Upper
75 100
77 33.4 24.9 37.3

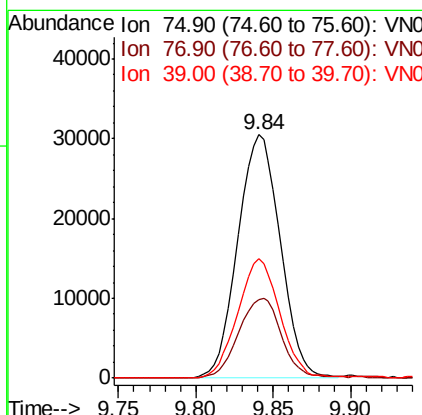
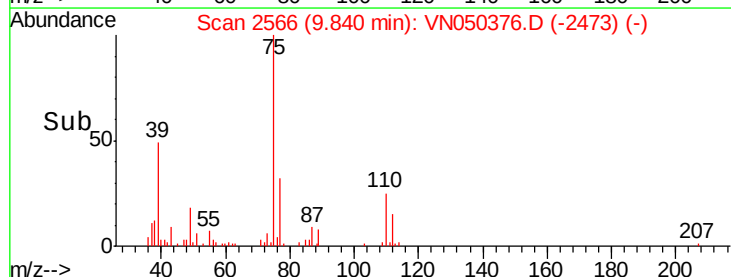
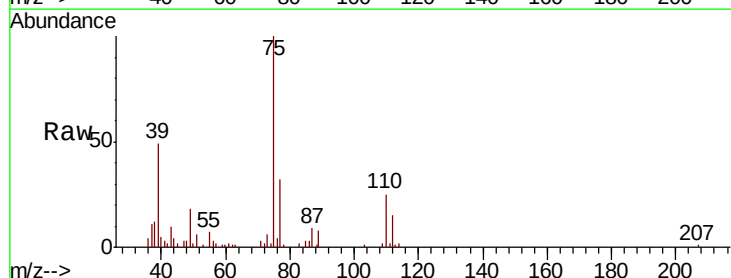
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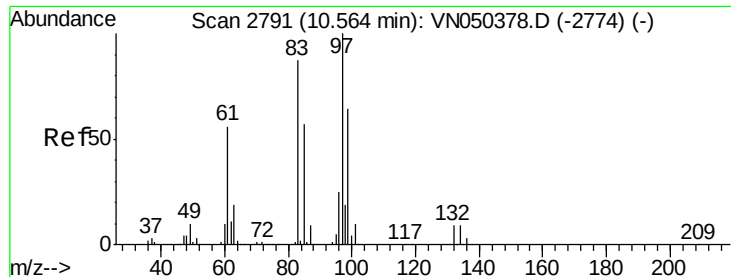
MMDadoda
8/7/2018 9:57:54 AM



#54
cis-1,3-Dichloropropene
Concen: 4.79 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion: 75 Resp: 58332
Ion Ratio Lower Upper
75 100
77 32.4 25.5 38.3
39 49.0 36.6 55.0





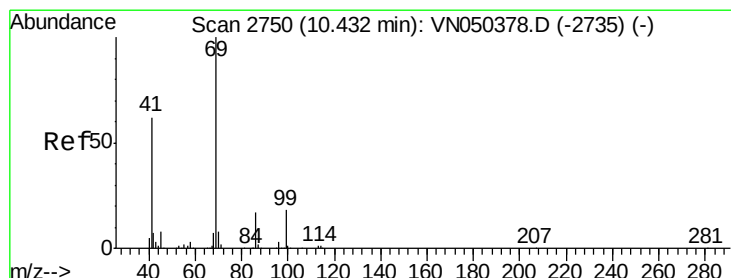
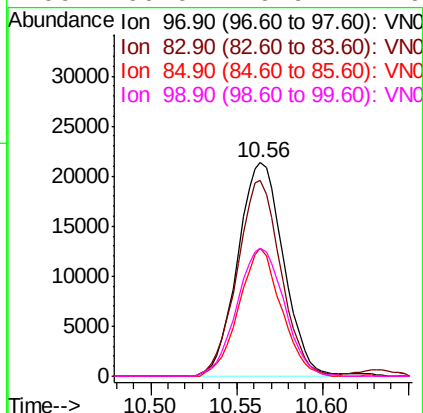
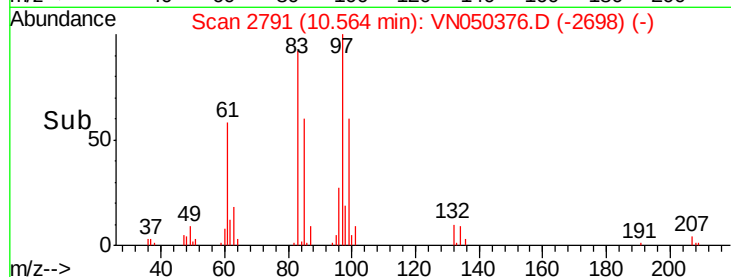
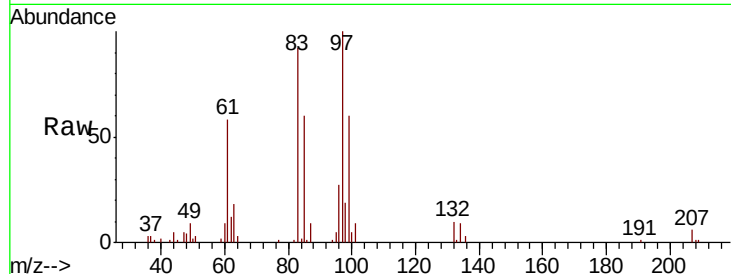
#55
 1,1,2-Trichloroethane
 Concen: 5.17 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	39353
Ion	Ratio	Lower	Upper
97	100		
83	91.8	69.2	103.8
85	59.9	44.0	66.0
99	60.0	49.9	74.9

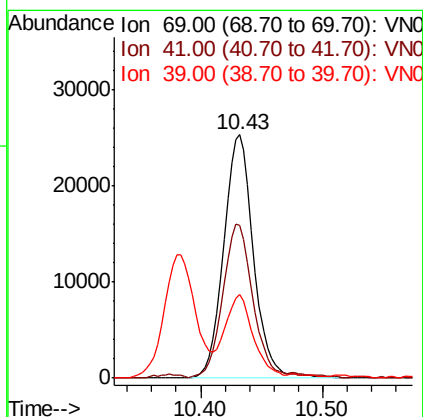
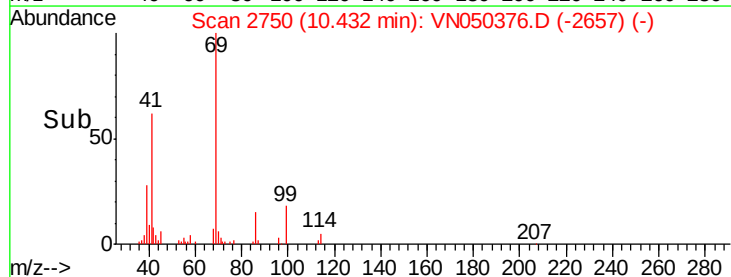
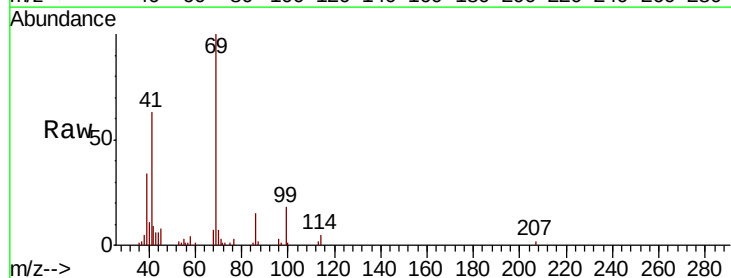
Manual Integrations
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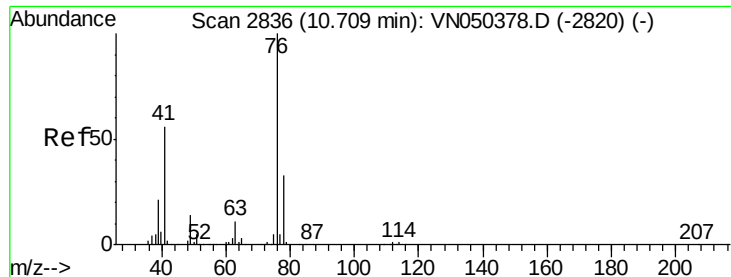
MMDadoda
 8/7/2018 9:57:54 AM



#56
 Ethyl methacrylate
 Concen: 4.80 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion:	69	Resp:	43155
Ion	Ratio	Lower	Upper
69	100		
41	65.8	51.0	76.4
39	31.0	26.6	40.0





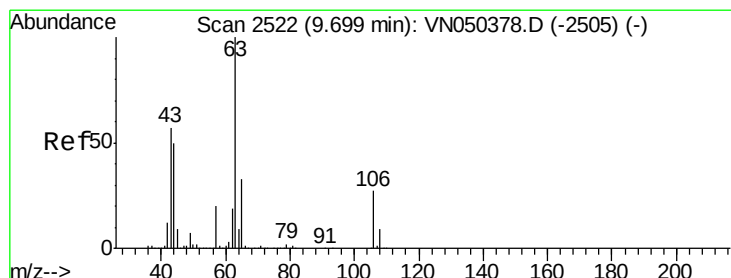
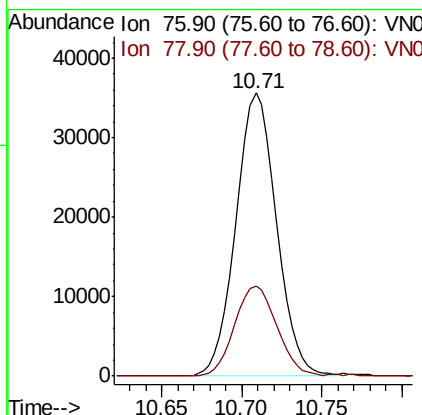
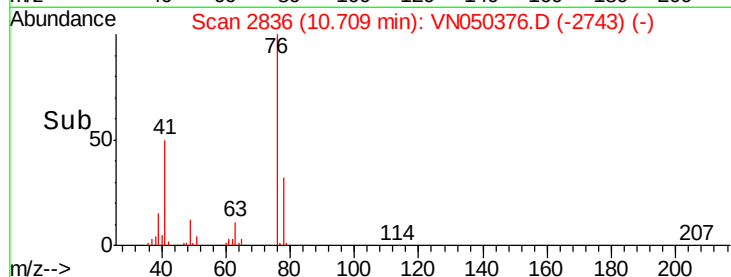
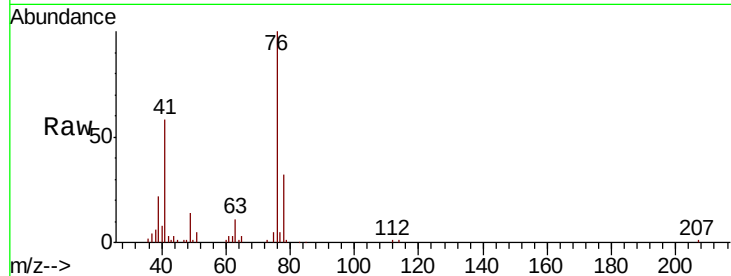
#57
 1,3-Dichloropropane
 Concen: 4.97 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.7	38.5

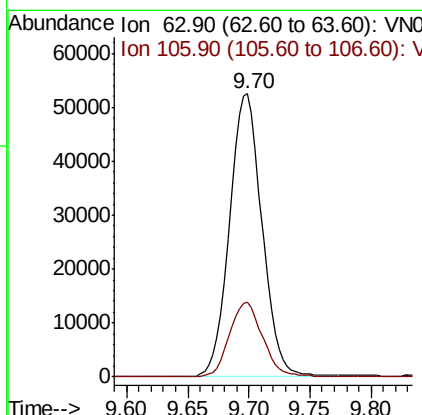
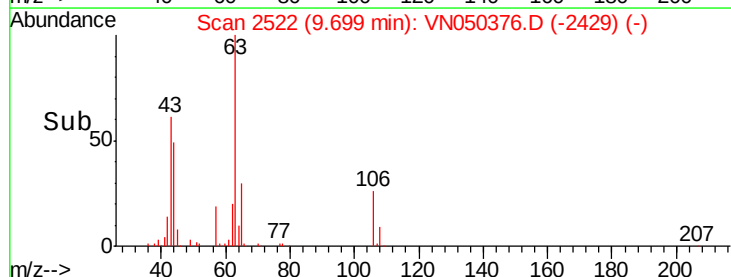
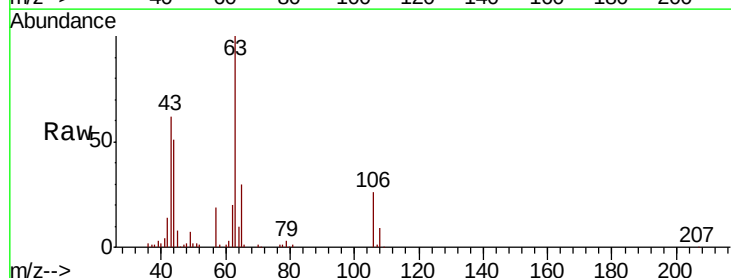
Manual Integrations
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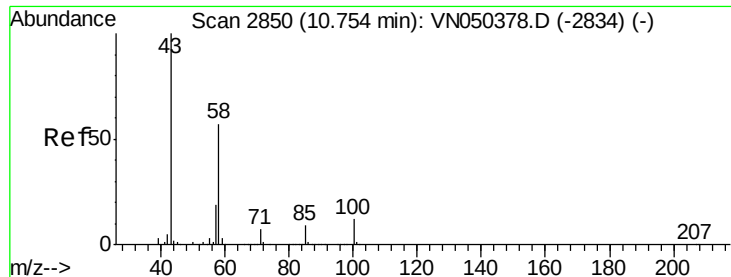
MMDadoda
 8/7/2018 9:57:54 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 23.34 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.7	32.5





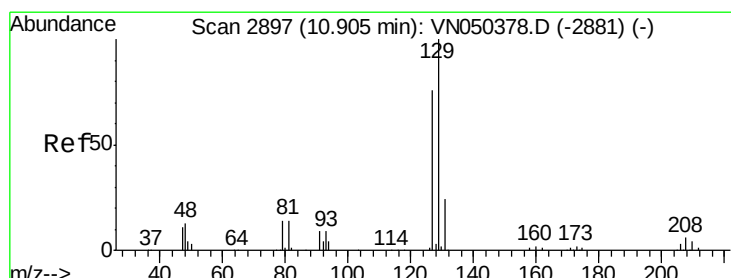
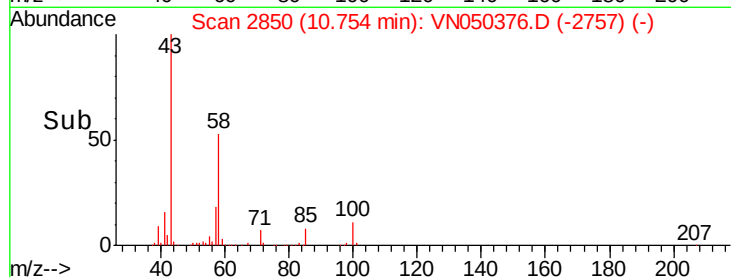
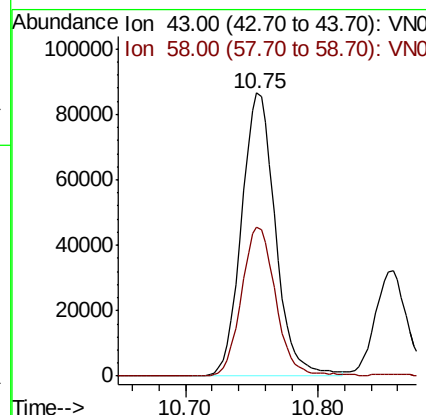
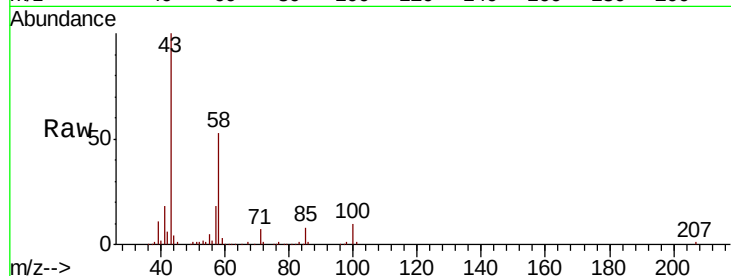
#59
2-Hexanone
Concen: 31.59 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.6	27.6	82.7

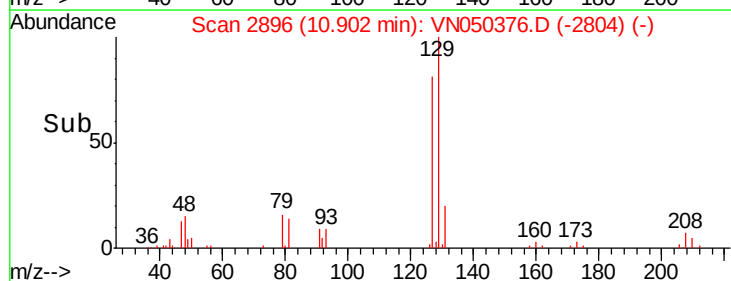
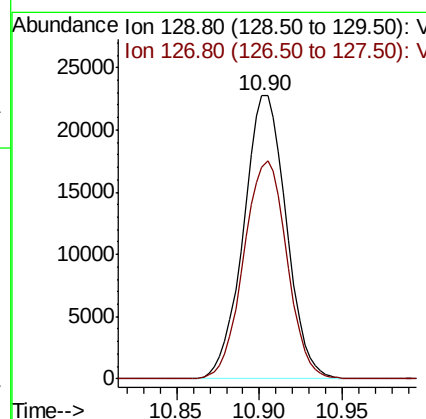
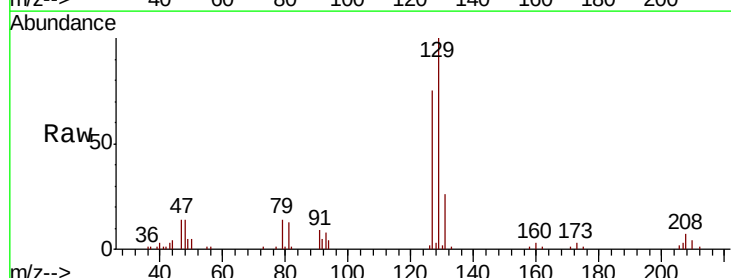
Manual Integrations
APPROVED

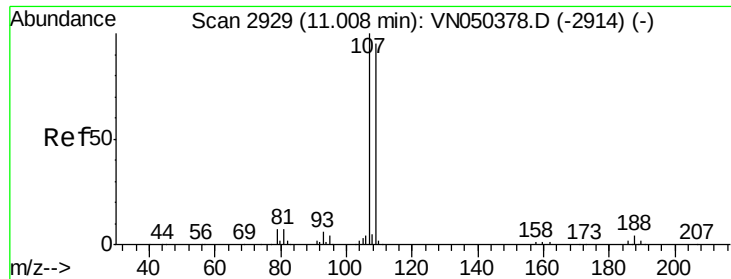
MMDadoda
8/7/2018 9:57:54 AM



#60
Dibromochloromethane
Concen: 4.84 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	38.0	113.9





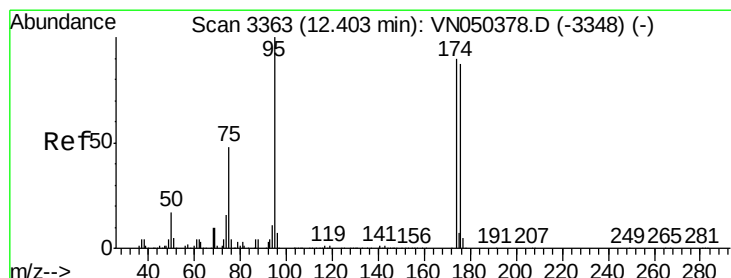
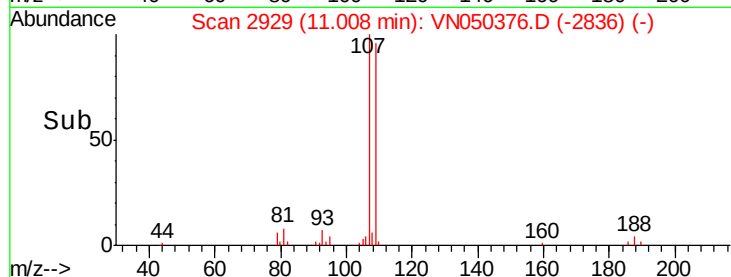
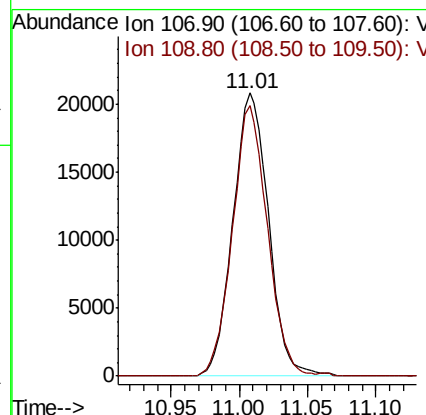
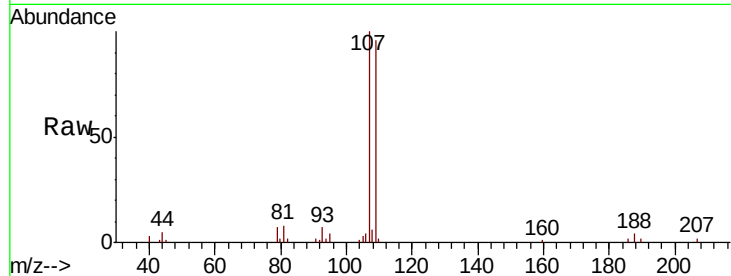
#61
 1,2-Dibromoethane
 Concen: 5.00 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	74.6	112.0

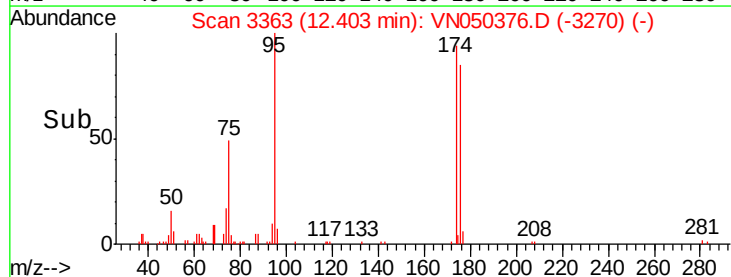
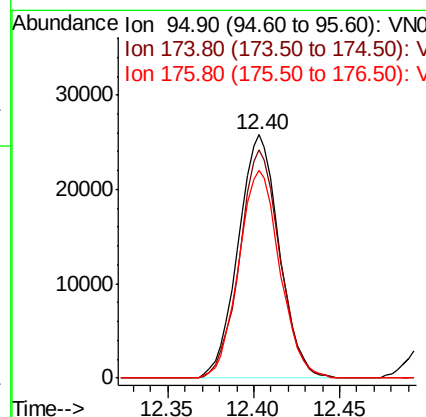
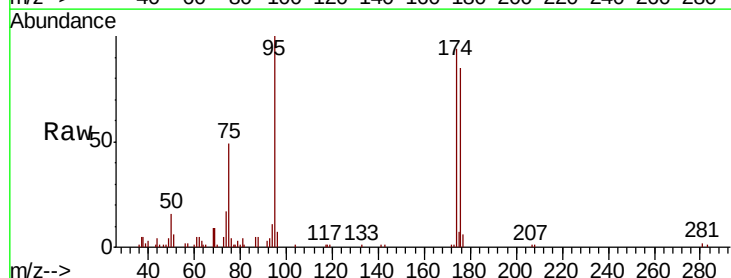
Manual Integrations
 APPROVED

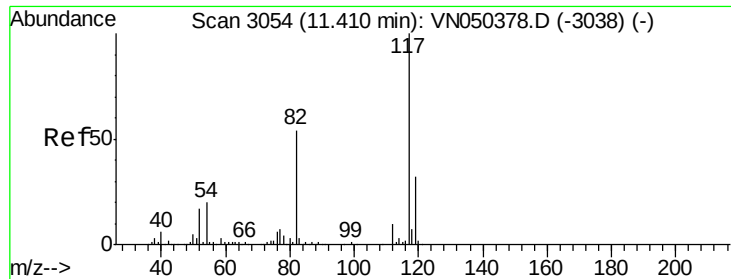
MMDadoda
 8/7/2018 9:57:54 AM



#62
 4-Bromofluorobenzene
 Concen: 4.57 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.6	0.0	178.2
176	85.6	0.0	173.4





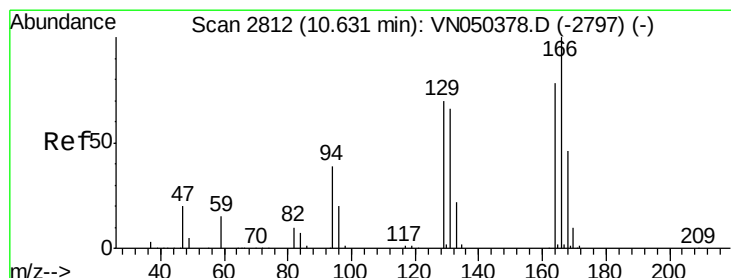
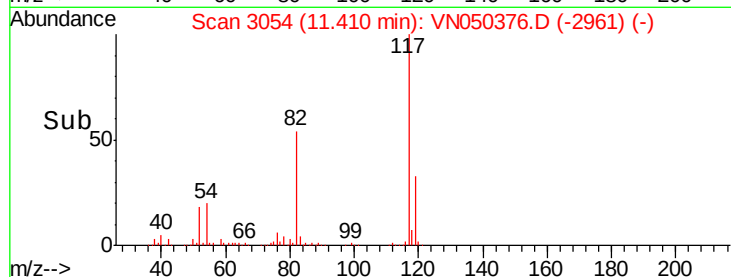
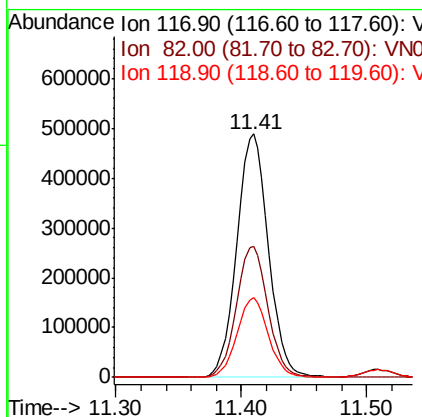
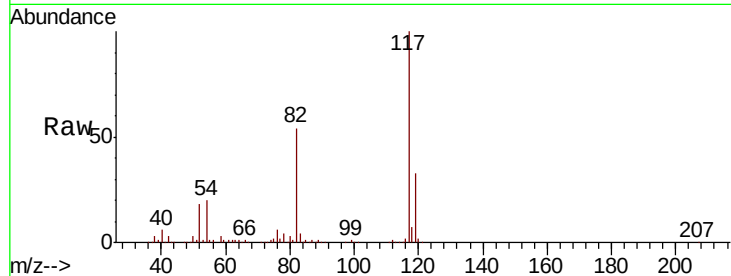
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.9	43.7	65.5
119	32.7	26.1	39.1

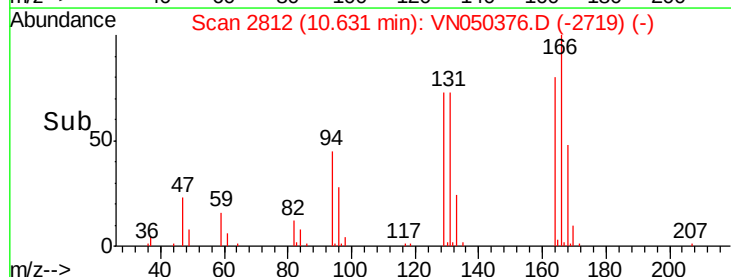
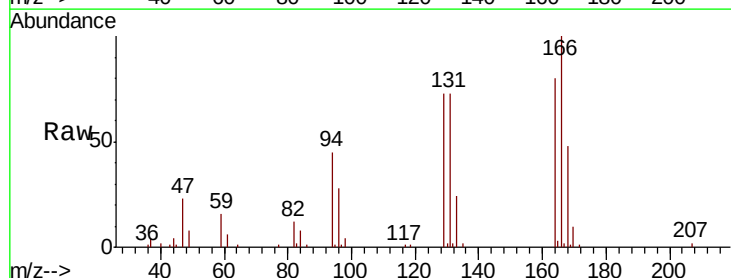
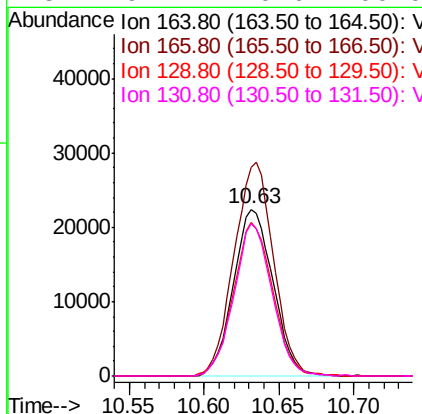
Manual Integrations
APPROVED

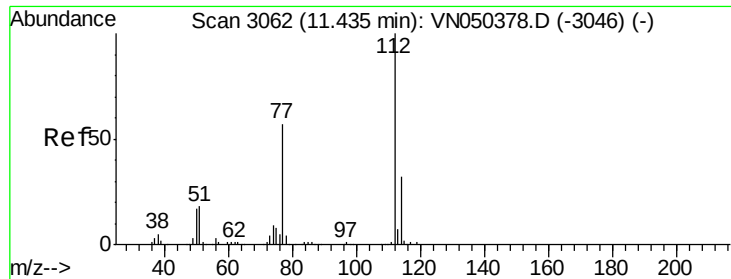
MMDadoda
8/7/2018 9:57:54 AM



#64
Tetrachloroethene
Concen: 5.03 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.1	102.1	153.1
129	91.8	73.2	109.8
131	91.1	70.6	106.0





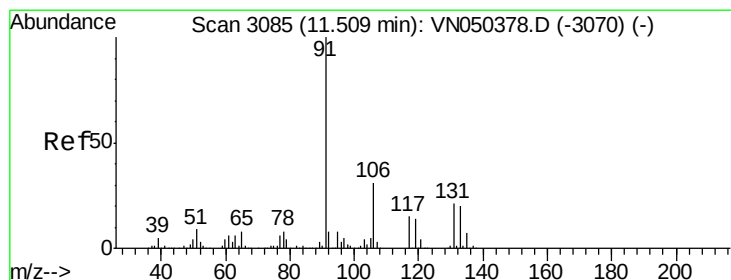
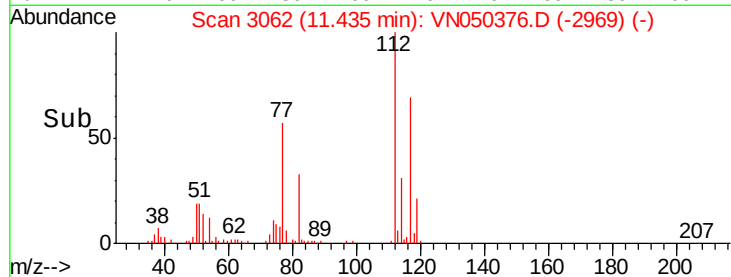
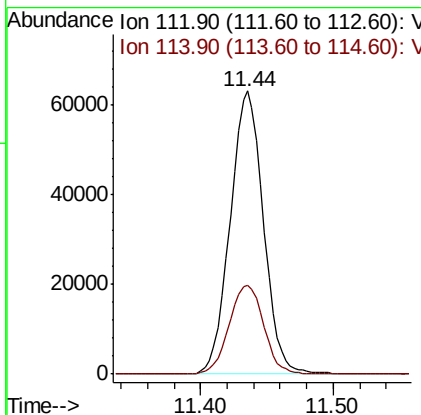
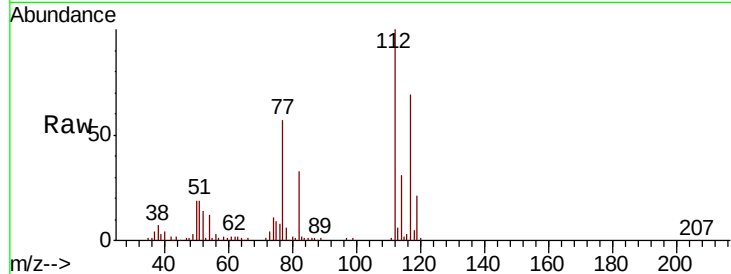
#65
Chlorobenzene
Concen: 5.08 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.6	38.4

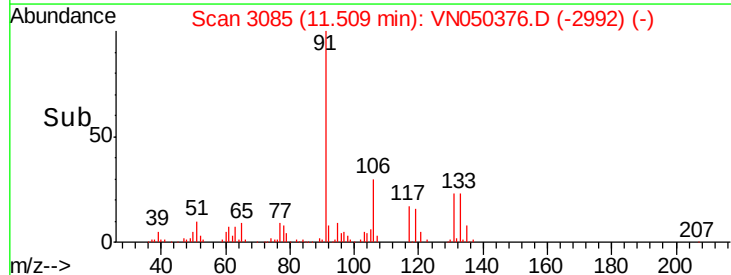
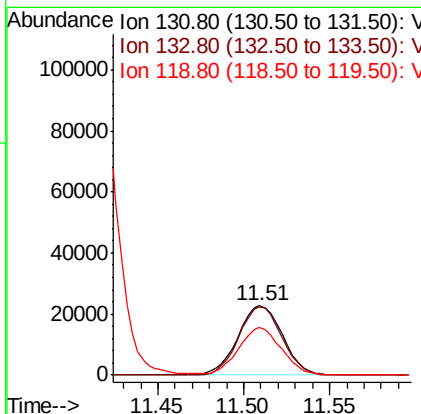
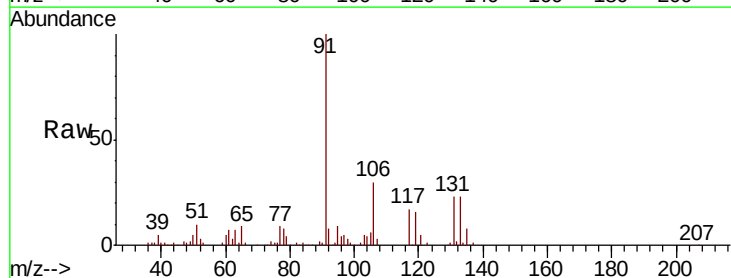
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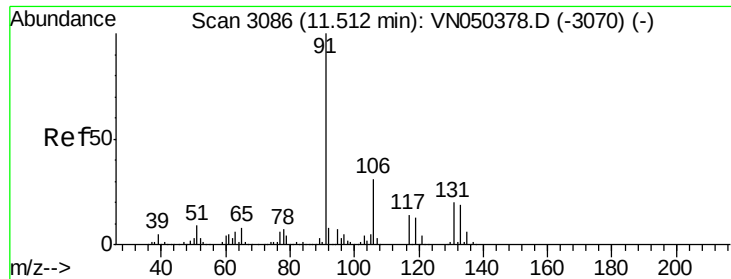
MMDadoda
8/7/2018 9:57:54 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.93 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	141.9
119	66.0	32.9	98.7





#67

Ethyl Benzene

Concen: 4.82 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 167262

Ion Ratio Lower Upper

91 100

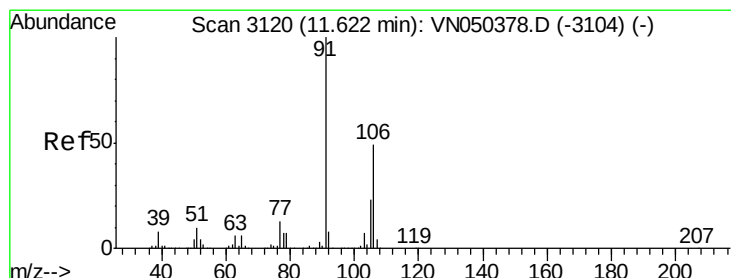
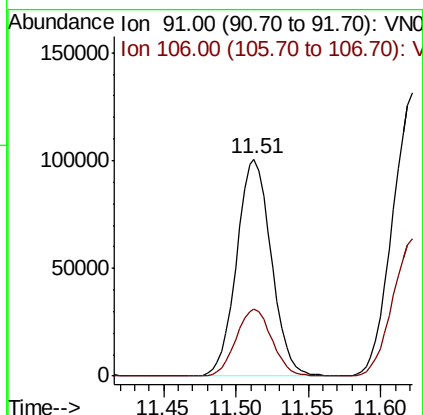
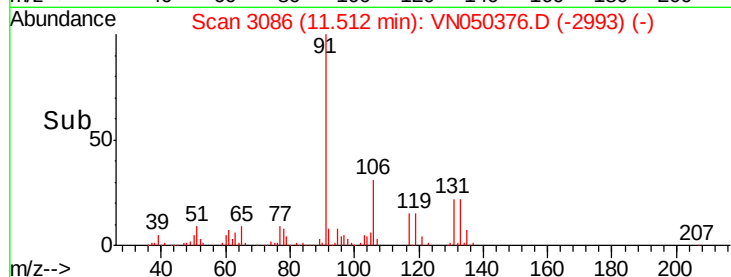
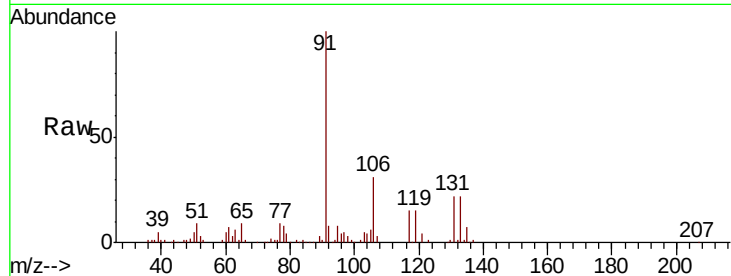
106 31.0 25.0 37.4

Manual Integrations

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MMDadoda

8/7/2018 9:57:54 AM



#68

m/p-Xylenes

Concen: 9.48 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN050376.D

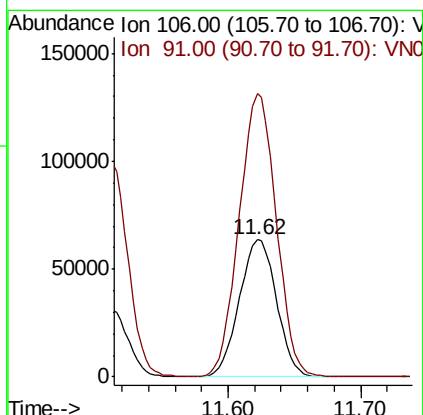
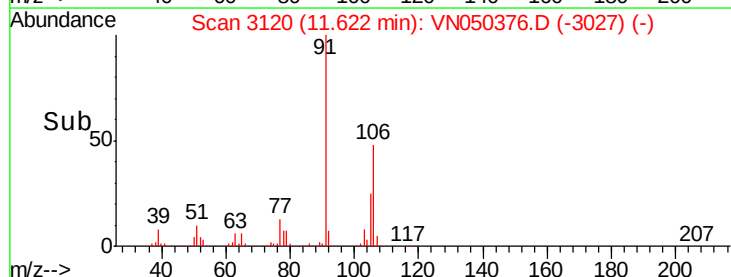
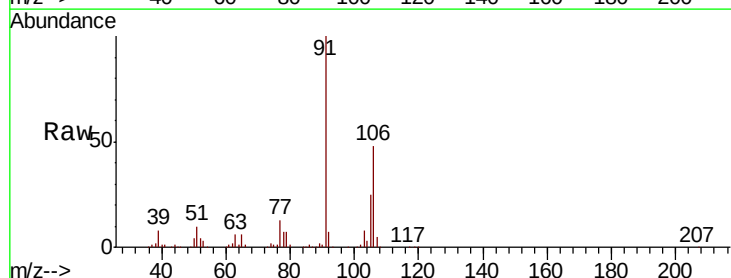
Acq: 6 Aug 2018 11:35

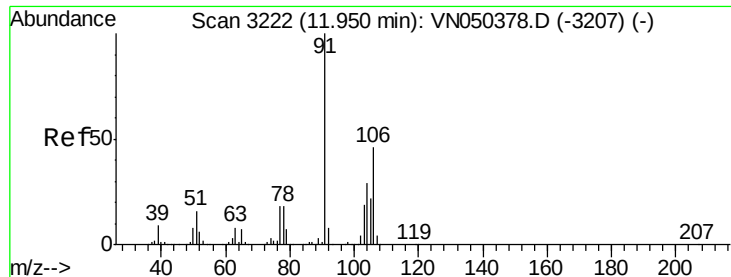
Tgt Ion: 106 Resp: 124444

Ion Ratio Lower Upper

106 100

91 204.6 162.2 243.2





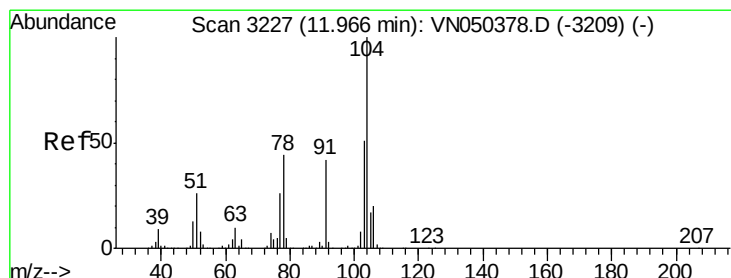
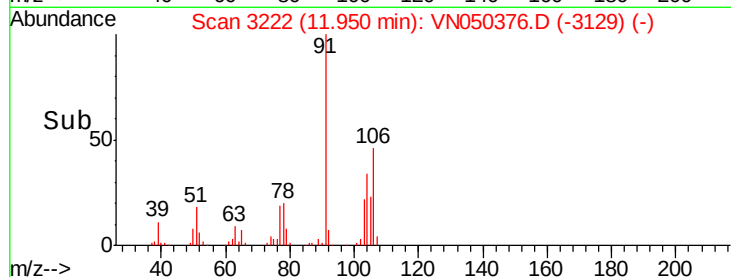
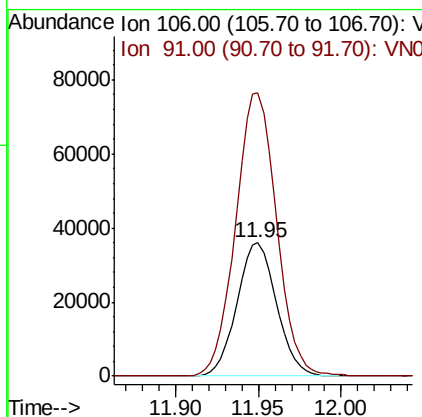
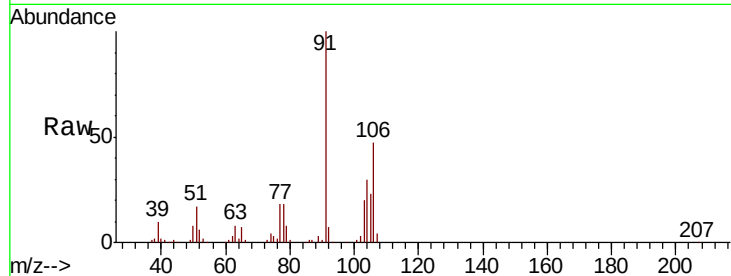
#69
o-Xylene
Concen: 4.80 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:106 Resp: 60056
Ion Ratio Lower Upper
106 100
91 219.0 107.7 323.1

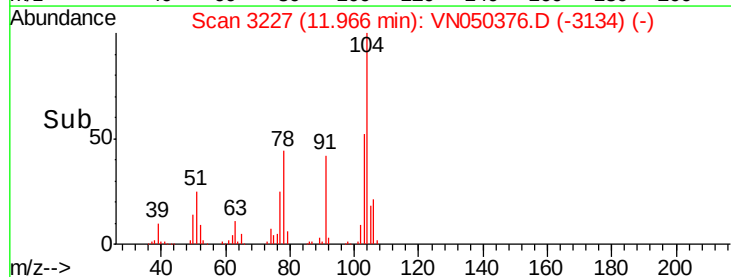
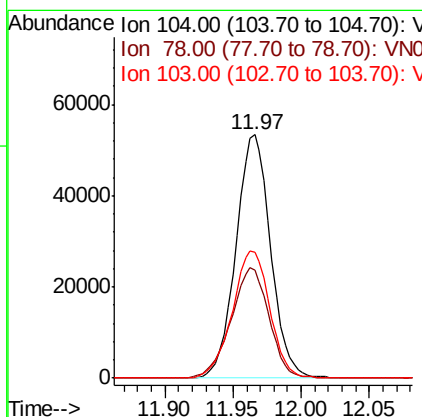
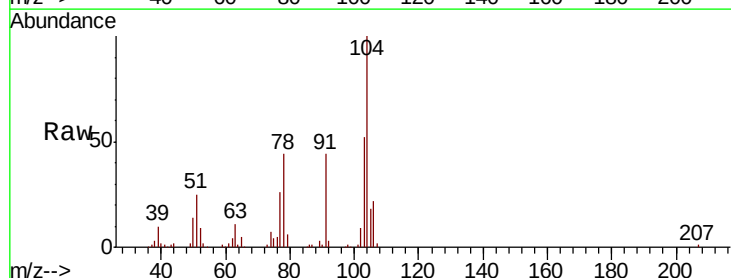
Manual Integrations
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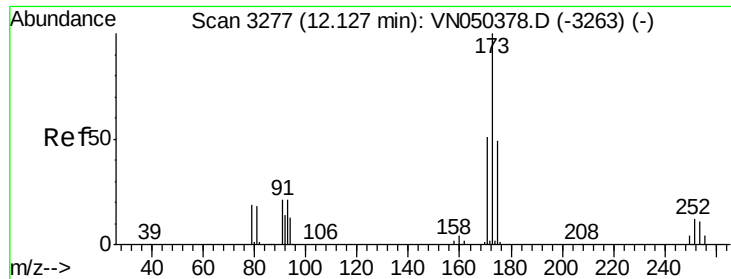
MMDadoda
8/7/2018 9:57:54 AM



#70
Styrene
Concen: 4.76 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion:104 Resp: 94139
Ion Ratio Lower Upper
104 100
78 49.7 39.3 58.9
103 56.4 45.0 67.6





#71

Bromoform

Concen: 4.65 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

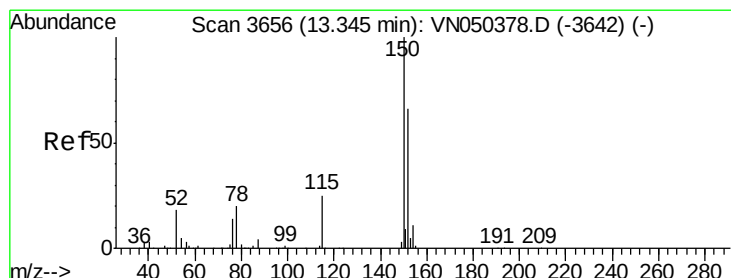
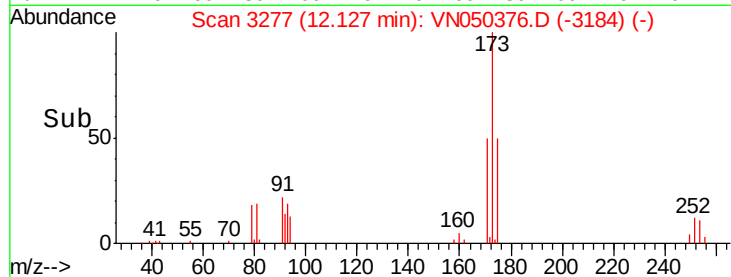
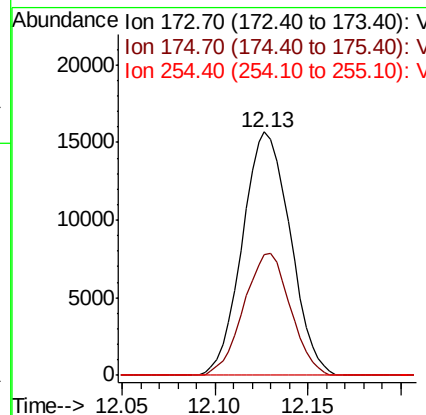
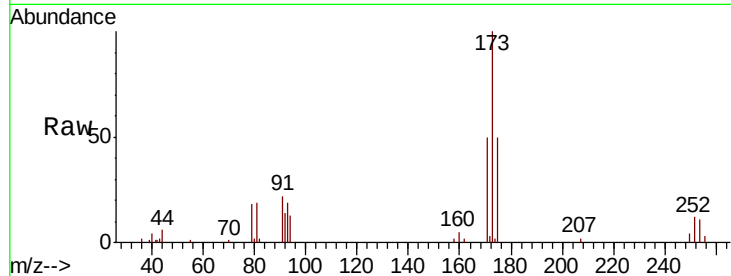
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.1	72.2
254	0.0	0.2	0.2

Manual Integrations
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MMDadoda
8/7/2018 9:57:54 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

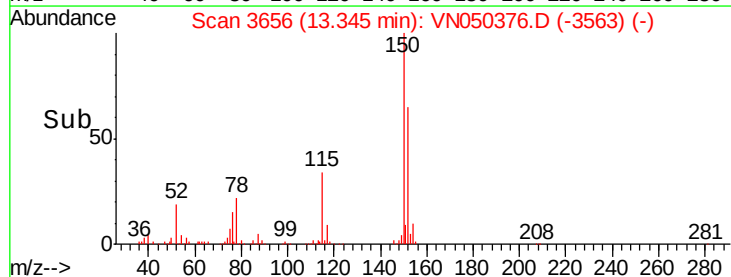
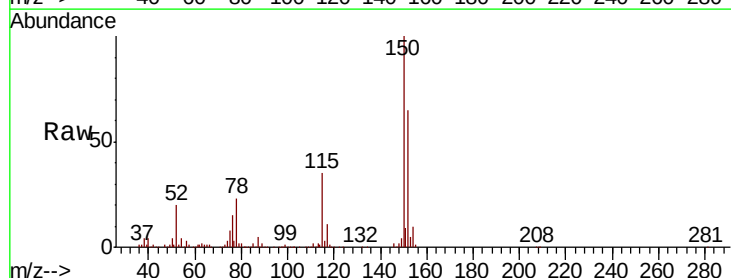
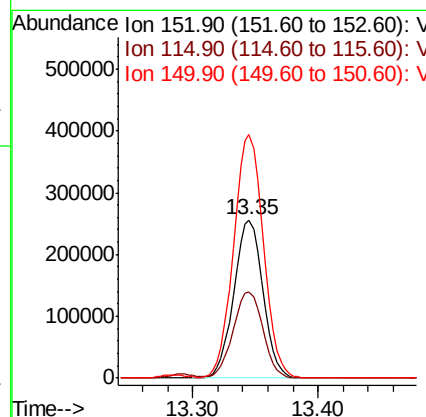
RT: 13.35 min Scan# 3656

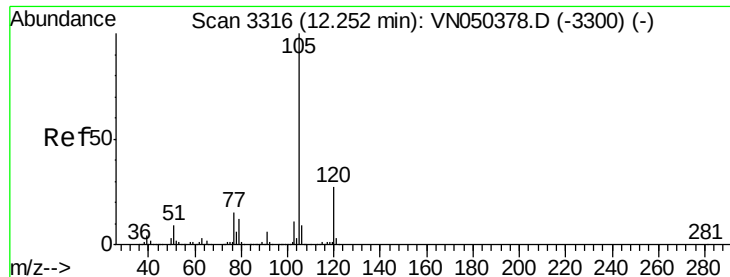
Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	27.8	83.3
150	157.8	0.0	348.6





#73

Isopropylbenzene

Concen: 4.99 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 105 Resp: 159300

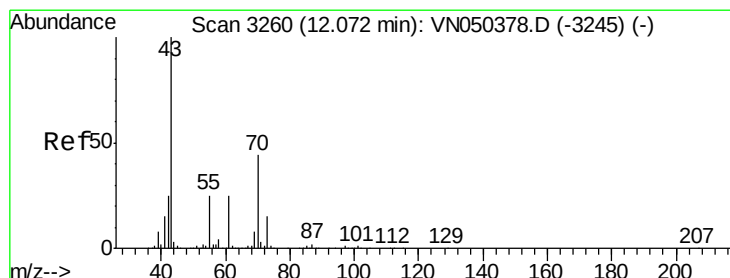
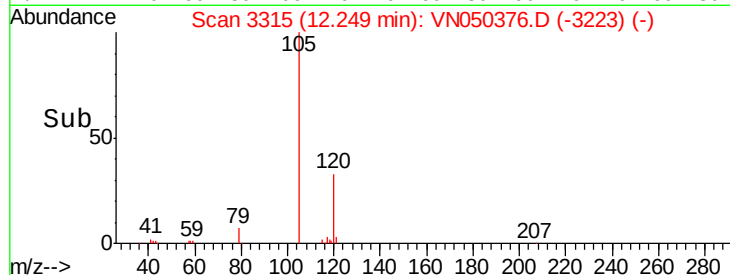
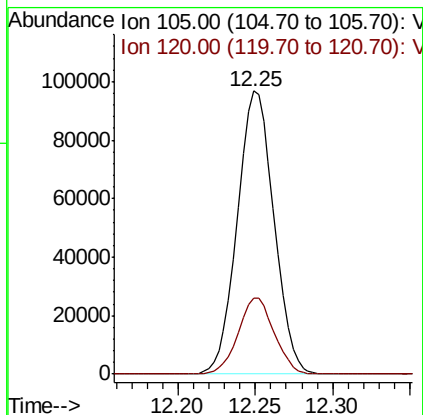
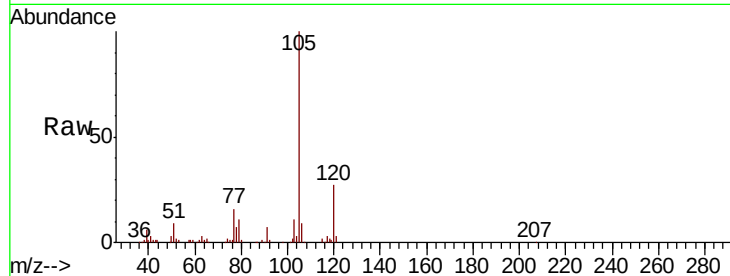
Ion Ratio Lower Upper

105 100

120 26.6 13.3 39.8

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8/7/2018 9:57:54 AM



#74

N-ethyl acetate

Concen: 5.03 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Tgt Ion: 43 Resp: 49018

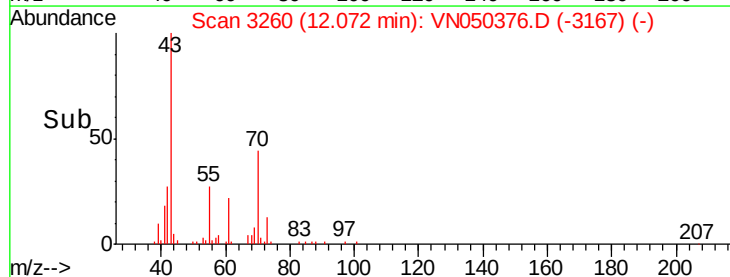
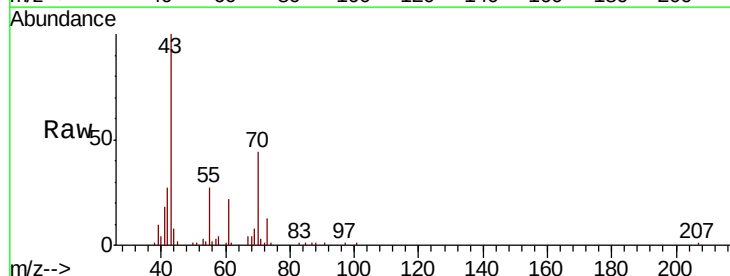
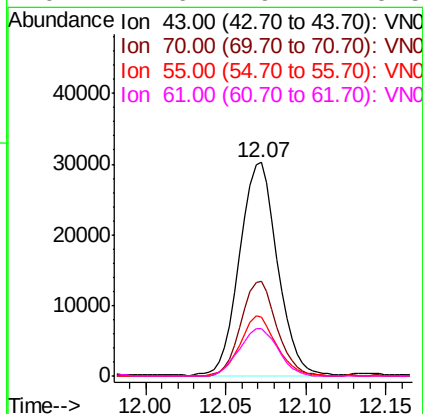
Ion Ratio Lower Upper

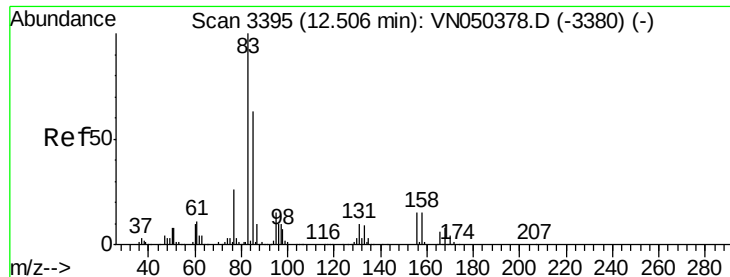
43 100

70 41.6 34.4 51.6

55 26.5 20.8 31.2

61 22.6 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 5.02 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

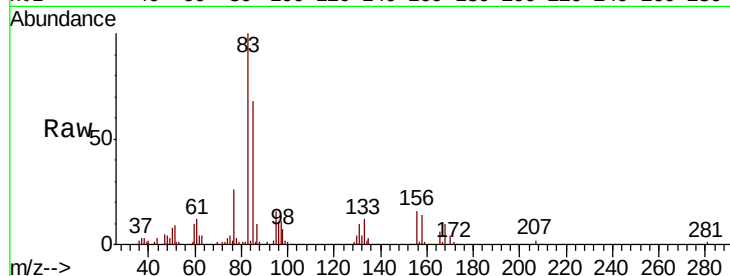
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	48927
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.1	15.3
85	66.3	32.3	96.8

Manual Integrations
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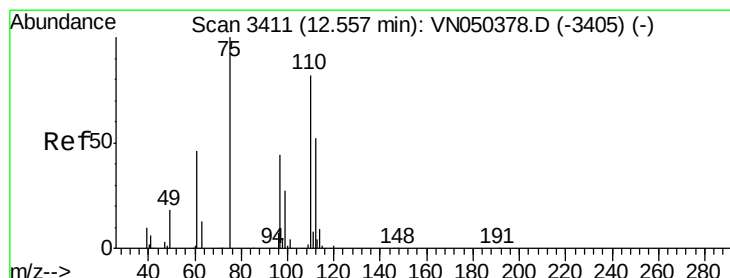
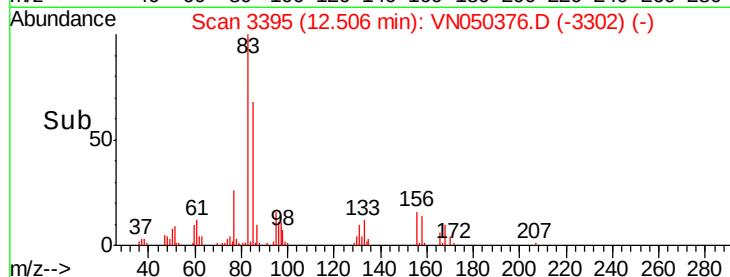
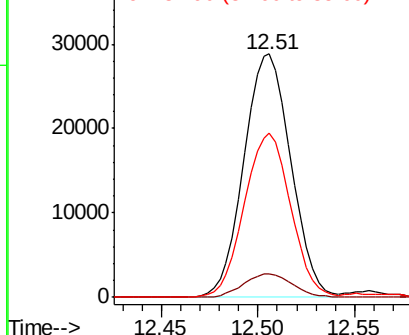


Abundance

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: 5.22 ug/l m

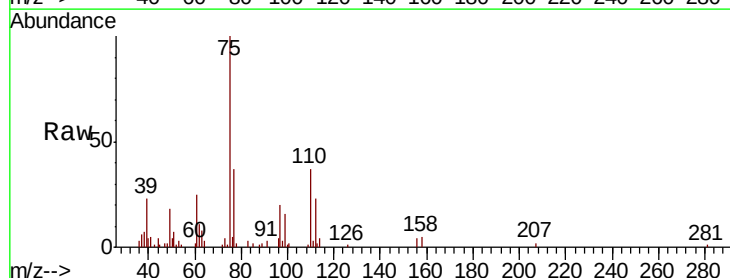
RT: 12.56 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

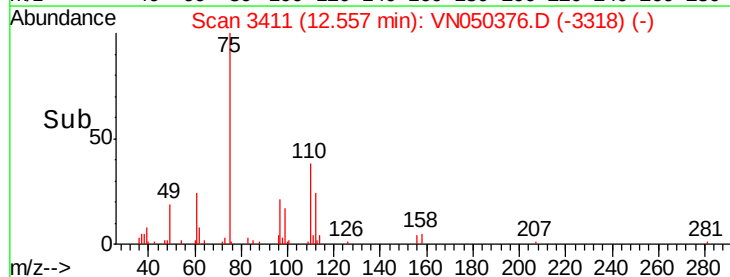
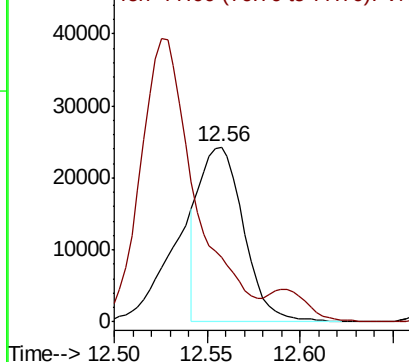
Tgt Ion:	75	Resp:	39925
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

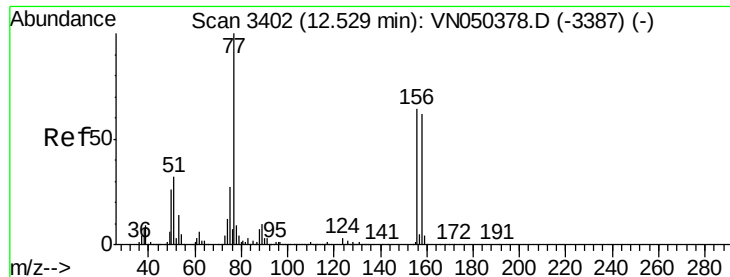


Abundance

Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 4.82 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:156 Resp: 42639

Ion Ratio Lower Upper

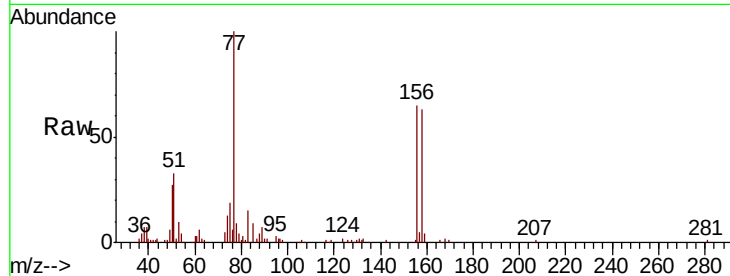
156 100

77 188.9 91.7 275.1

158 99.3 48.9 146.6

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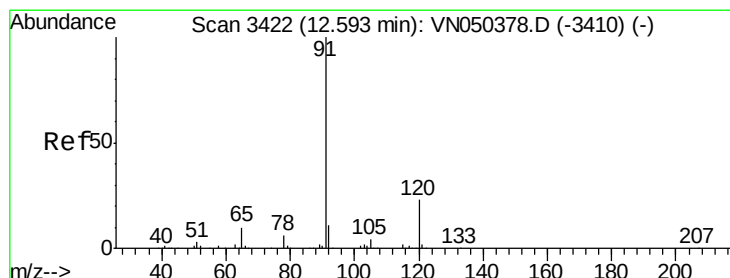
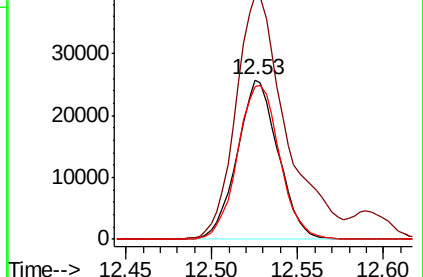
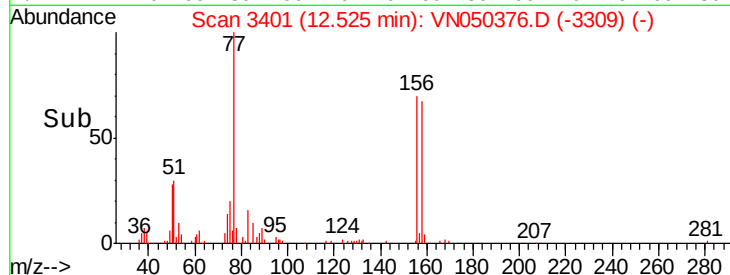
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8/7/2018 9:57:54 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.86 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN050376.D

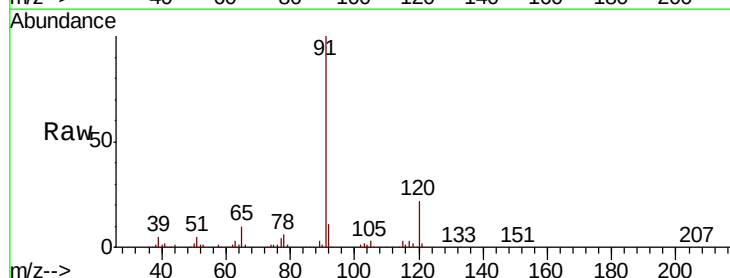
Acq: 6 Aug 2018 11:35

Tgt Ion: 91 Resp: 173437

Ion Ratio Lower Upper

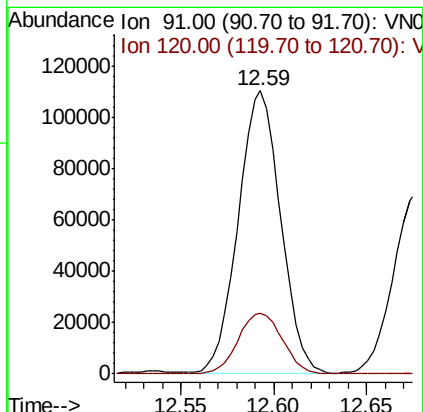
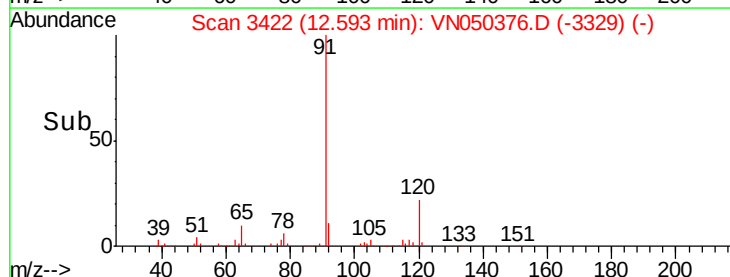
91 100

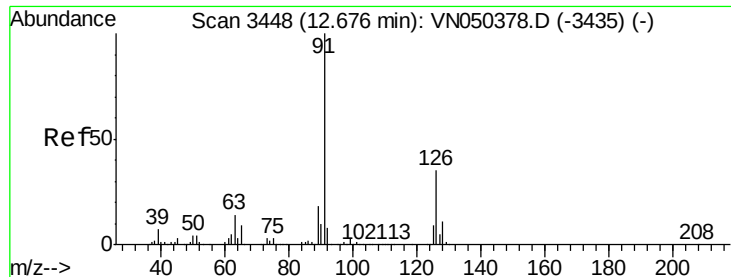
120 22.5 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.00 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 110444

Ion Ratio Lower Upper

91 100

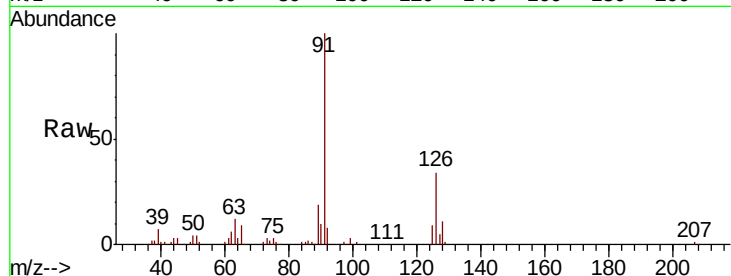
126 34.2 17.6 52.8

Manual Integrations

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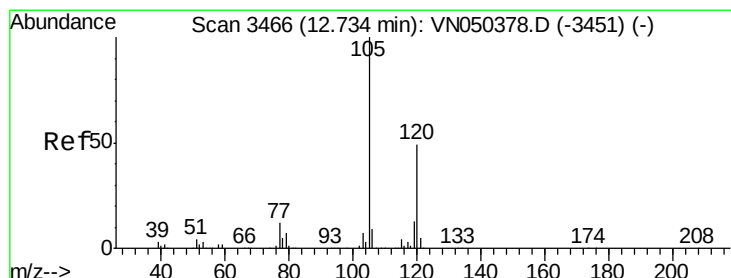
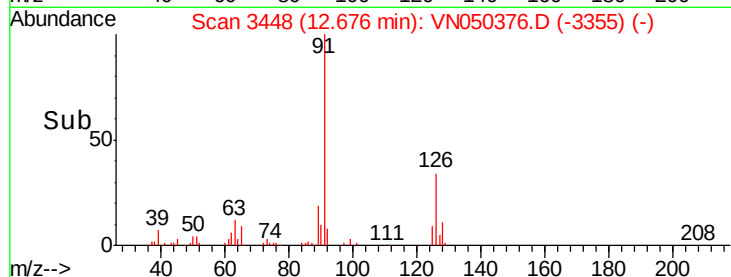
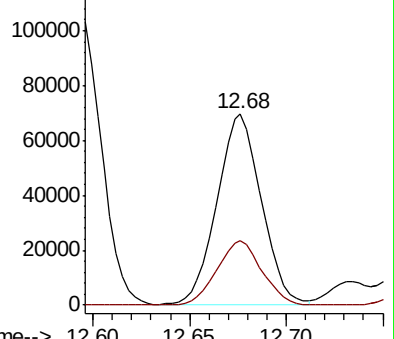
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Abundance Ion 91.00 (90.70 to 91.70): VN050376.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN050376.D (-3435) (-)



#80

1,3,5-Trimethylbenzene

Concen: 5.05 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050376.D

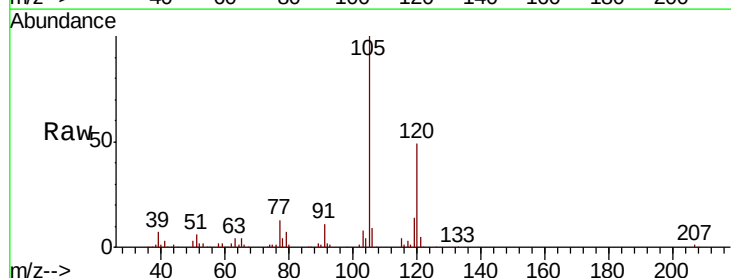
Acq: 6 Aug 2018 11:35

Tgt Ion: 105 Resp: 126655

Ion Ratio Lower Upper

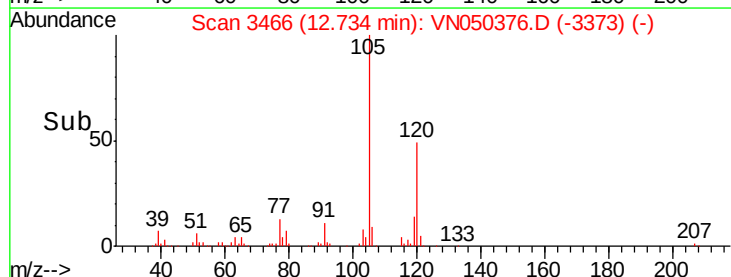
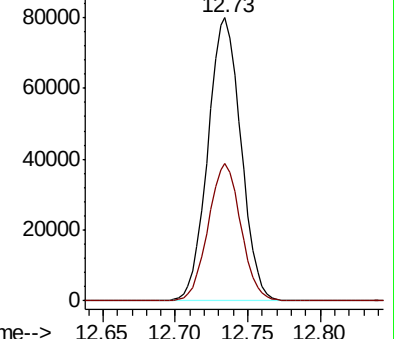
105 100

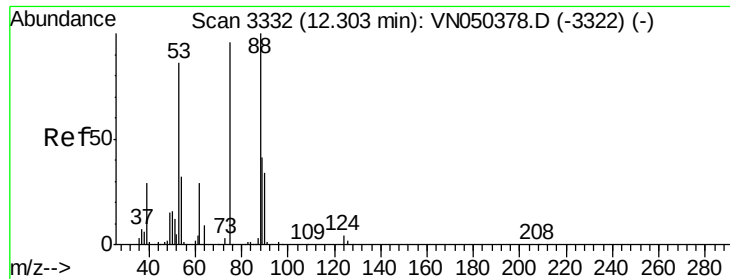
120 47.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050376.D (-3373) (-)

Ion 120.00 (119.70 to 120.70): VN050376.D (-3373) (-)





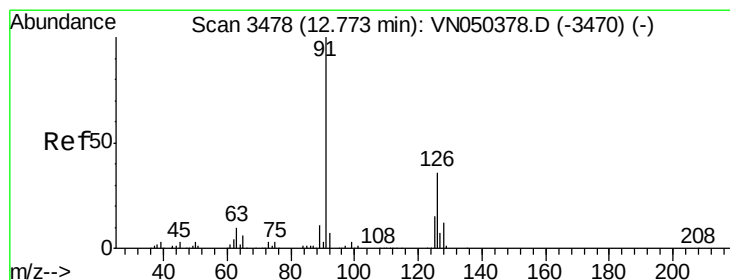
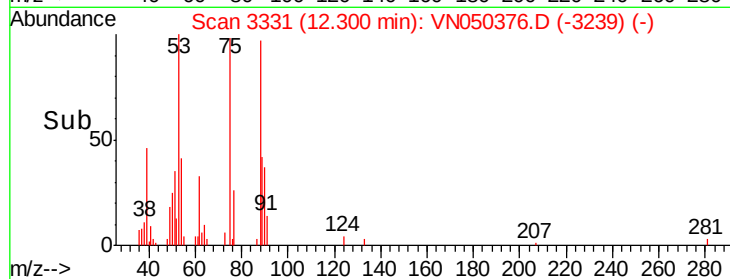
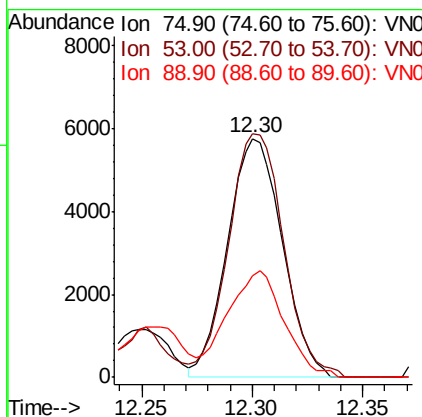
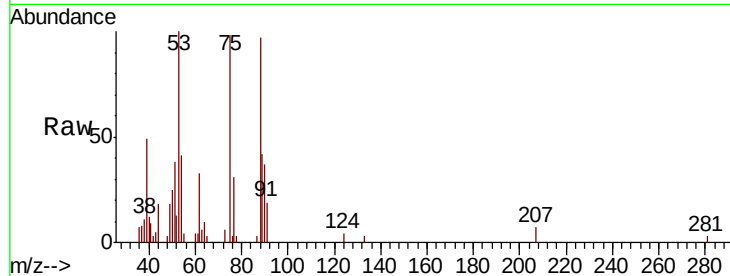
#81
trans-1,4-Dichloro-2-butene
Concen: 4.13 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	102.8	73.5	110.3
89	46.4	36.0	54.0

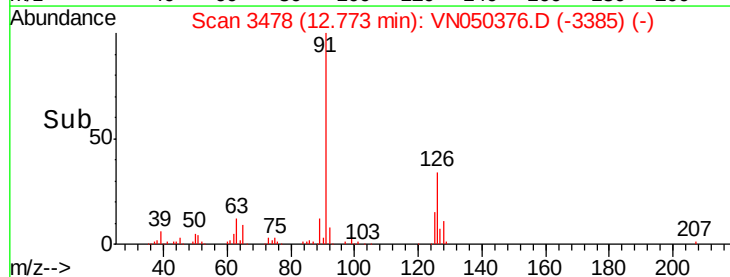
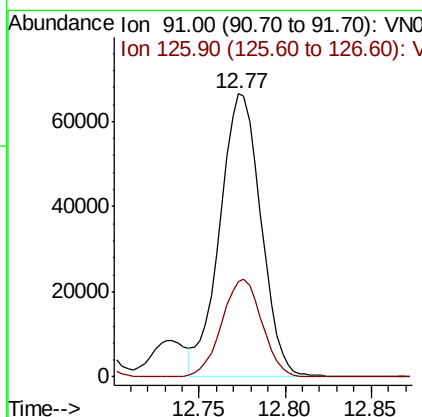
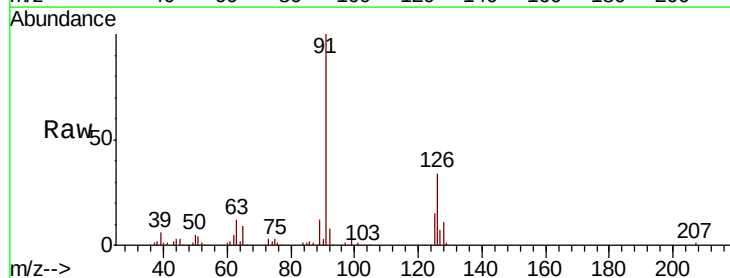
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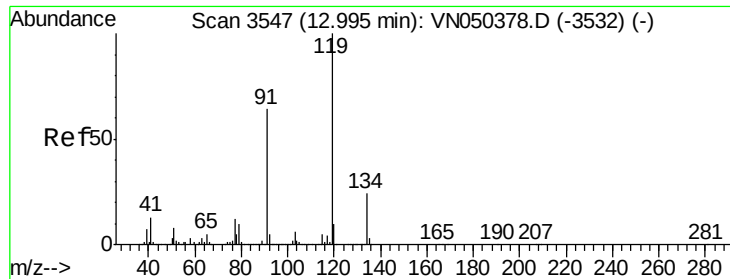
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#82
4-Chlorotoluene
Concen: 5.02 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.0	51.0





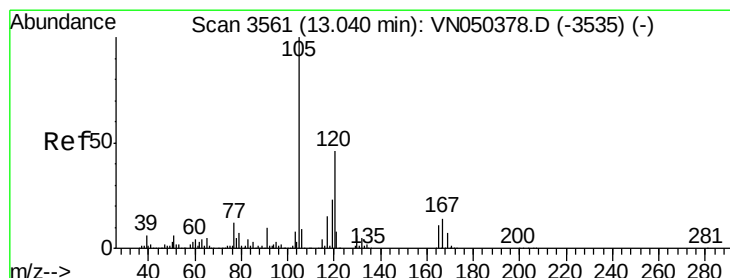
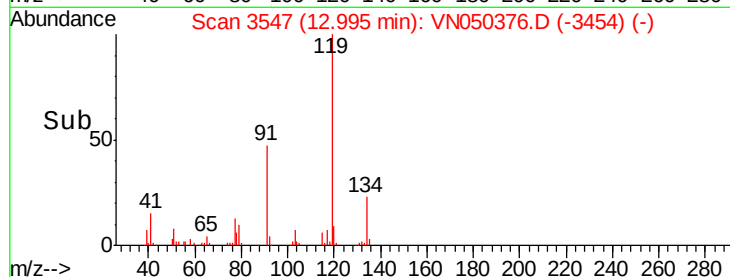
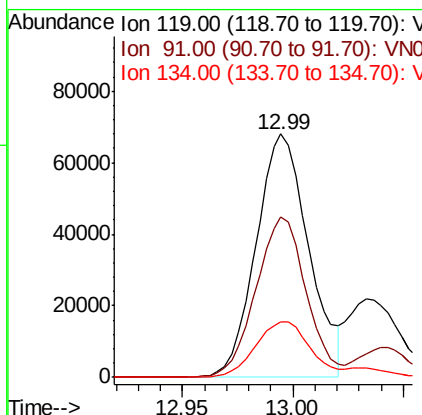
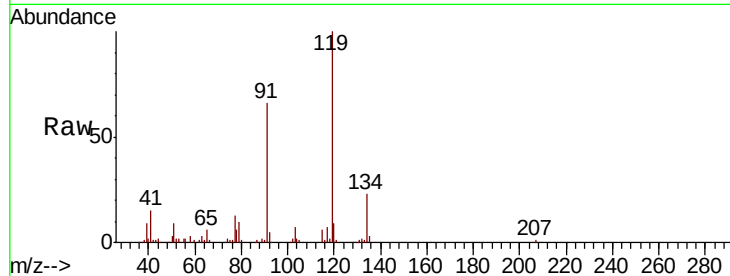
#83
 tert-Butylbenzene
 Concen: 5.13 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.3	32.1	96.3
134	24.0	13.2	39.5

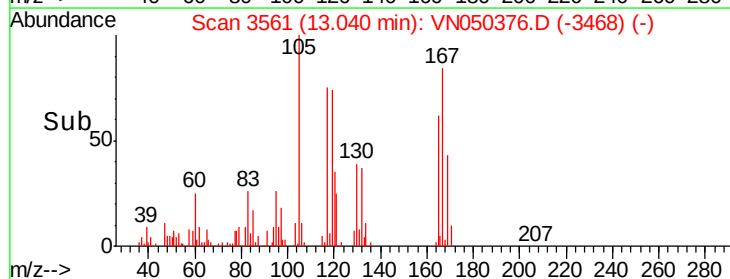
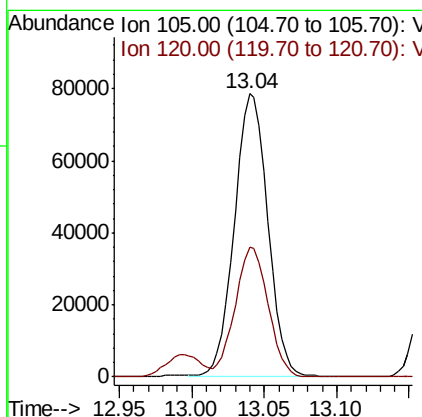
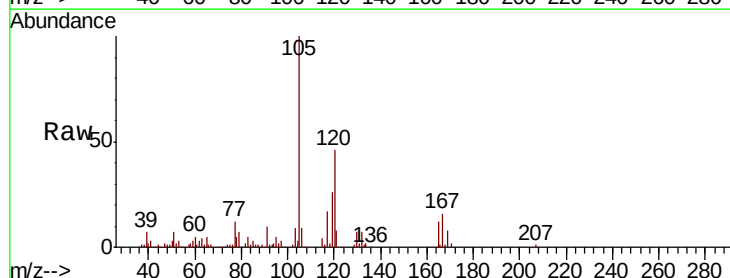
Manual Integrations
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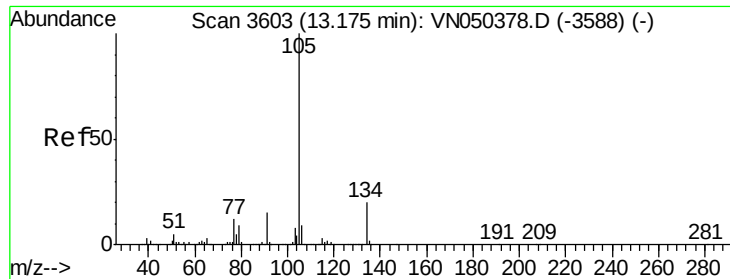
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 8/7/2018 9:57:54 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 4.99 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.9	68.7





#85

sec-Butylbenzene

Concen: 4.95 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:105 Resp: 144803

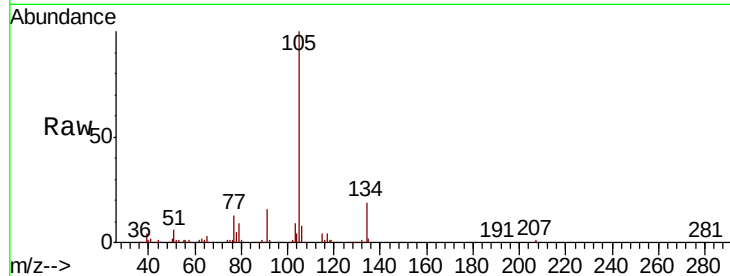
Ion Ratio Lower Upper

105 100

134 20.0 10.1 30.1

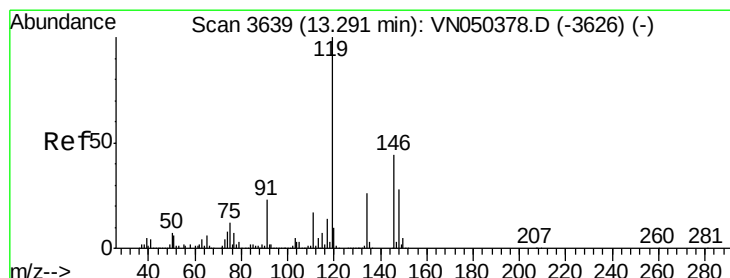
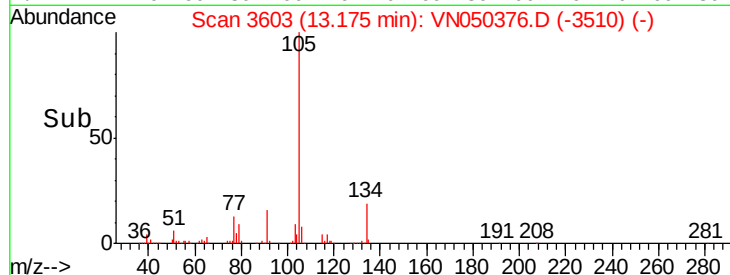
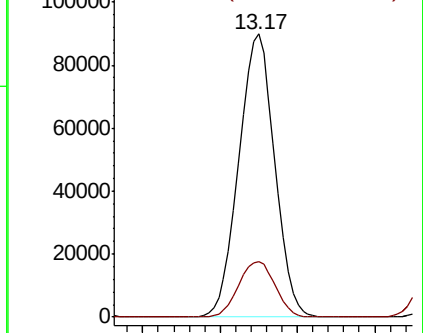
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.92 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

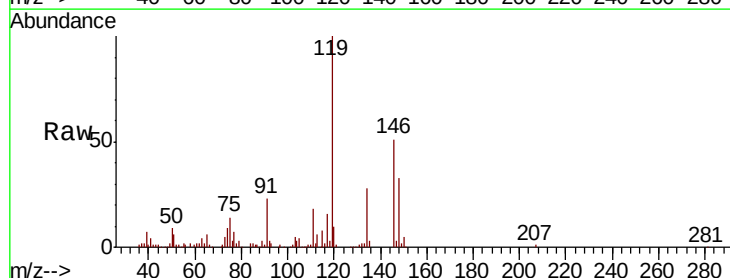
Tgt Ion:119 Resp: 121386

Ion Ratio Lower Upper

119 100

134 27.0 13.3 39.8

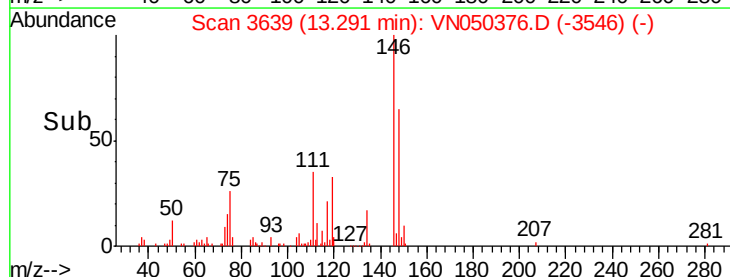
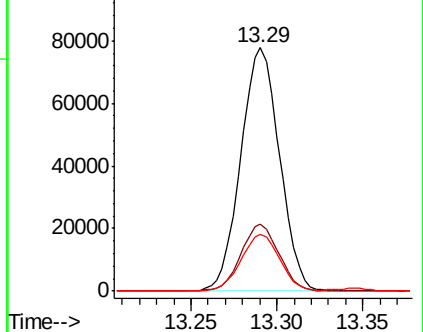
91 23.3 11.4 34.2

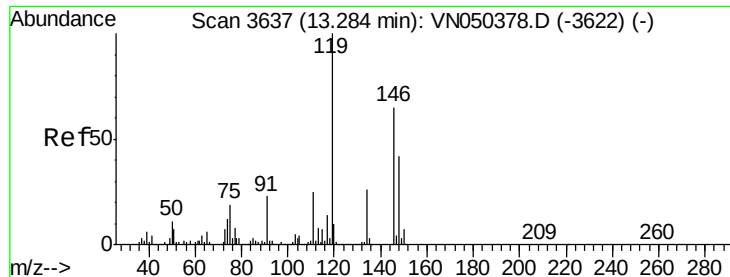


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





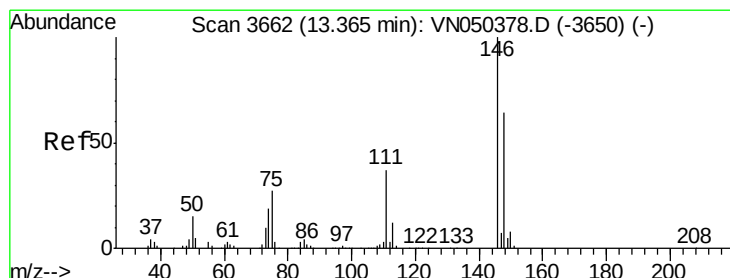
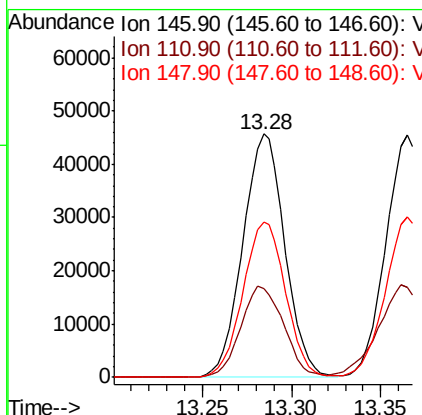
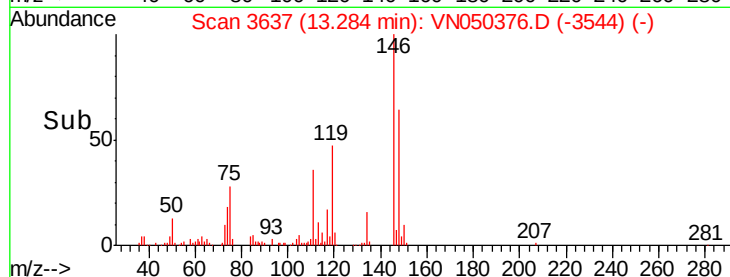
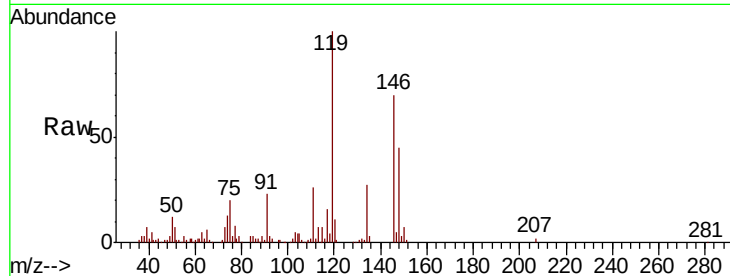
#87
 1,3-Dichlorobenzene
 Concen: 5.02 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.8	56.4
148	64.9	31.9	95.9

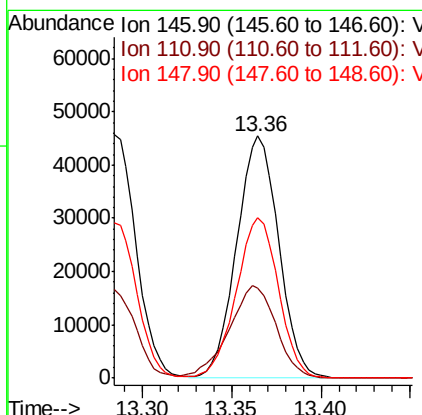
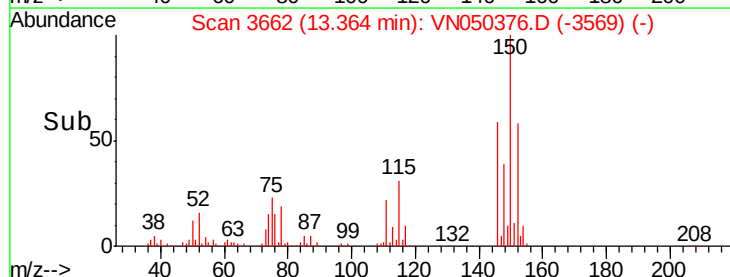
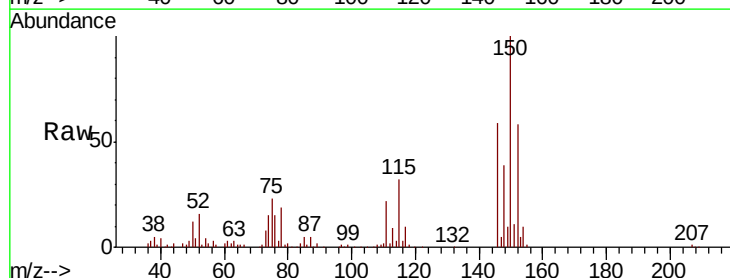
Manual Integrations
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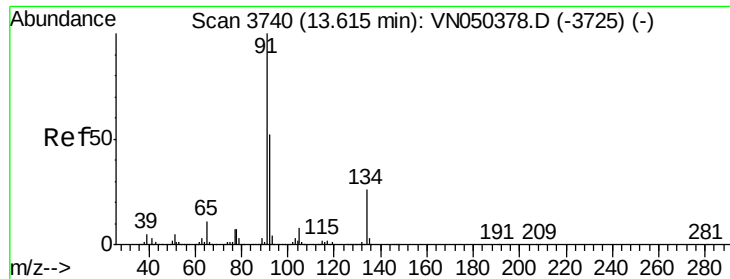
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 5.11 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.8	18.3	54.9
148	66.7	31.9	95.9





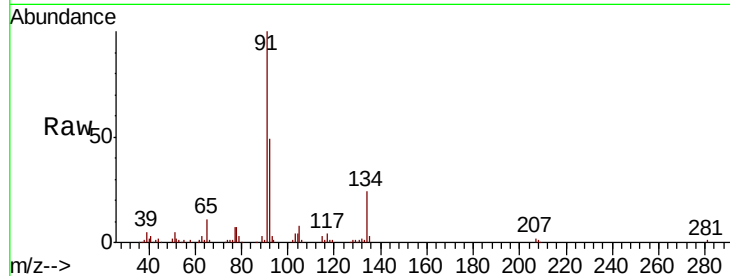
#89
n-Butylbenzene
Concen: 4.71 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.5	25.8	77.4
134	25.1	12.8	38.4

Manual Integrations
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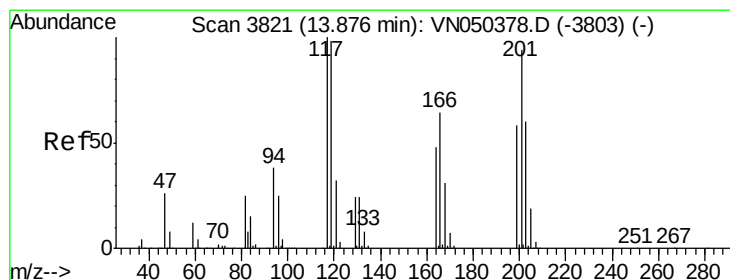
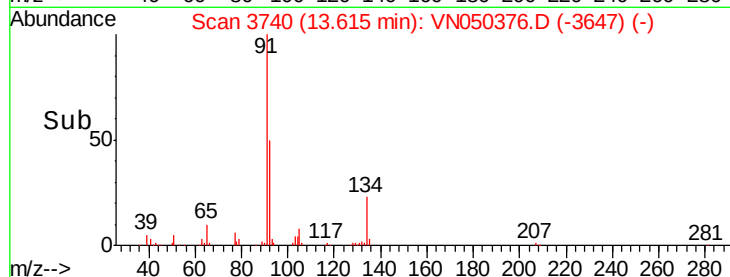
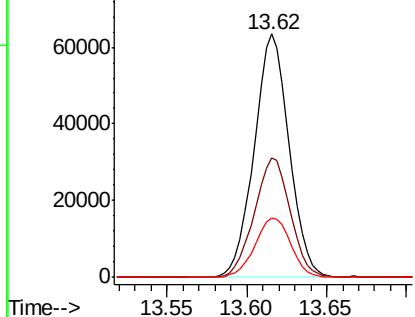


Abundance

Ion 91.00 (90.70 to 91.70): VN050376.D (-3647) (-)

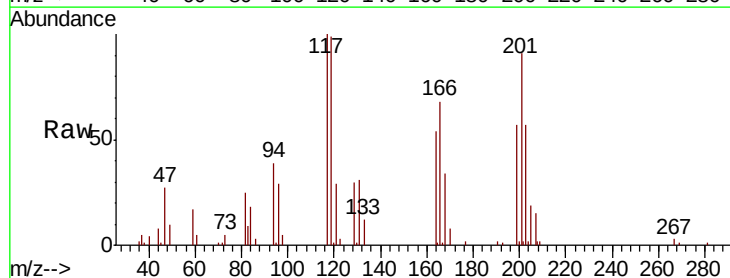
Ion 92.00 (91.70 to 92.70): VN050376.D (-3647) (-)

Ion 134.00 (133.70 to 134.70): VN050376.D (-3647) (-)



#90
Hexachloroethane
Concen: 4.09 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

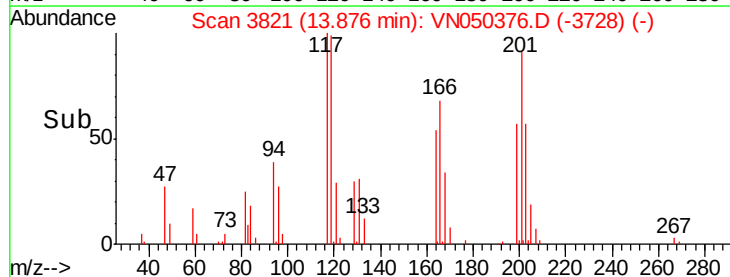
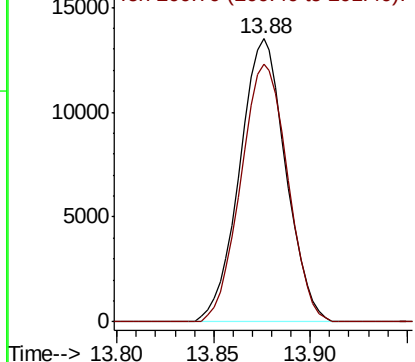
Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.2	45.6	136.8

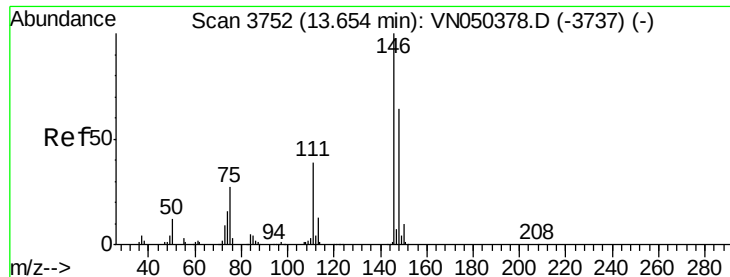


Abundance

Ion 116.80 (116.50 to 117.50): VN050376.D (-3728) (-)

Ion 200.70 (200.40 to 201.40): VN050376.D (-3728) (-)





#91

1,2-Dichlorobenzene

Concen: 5.16 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Instrument :

MSVOA_N

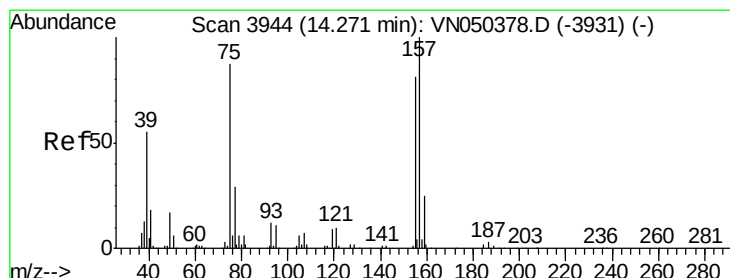
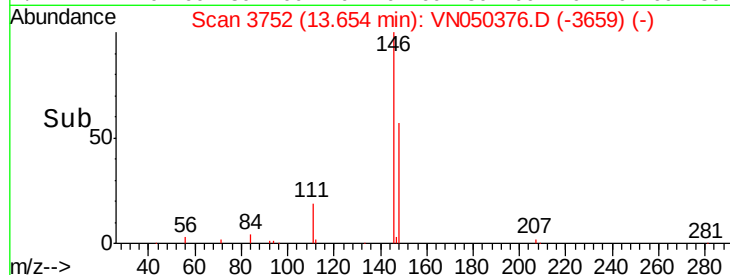
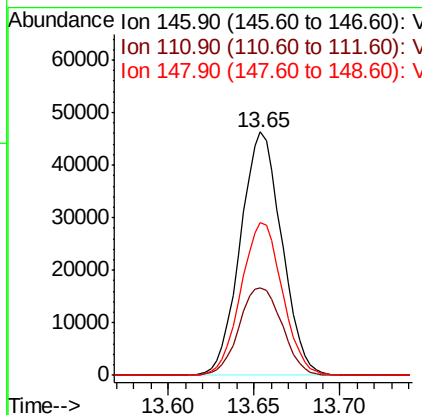
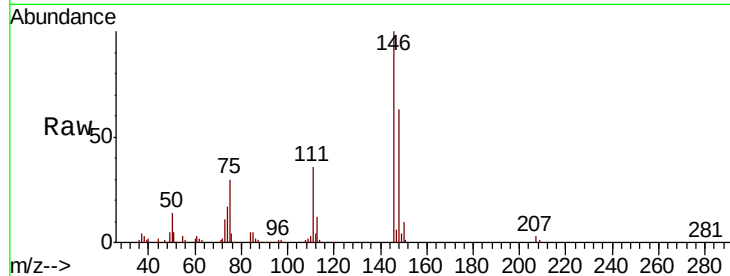
ClientSampleId :

VSTDIC005

Tot Ion:	146	Resp:	77236
Ion Ratio	Lower	Upper	
146	100		
111	37.4	19.6	58.7
148	62.9	32.1	96.3

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#92

1,2-Dibromo-3-Chloropropane

Concen: 5.10 ug/l

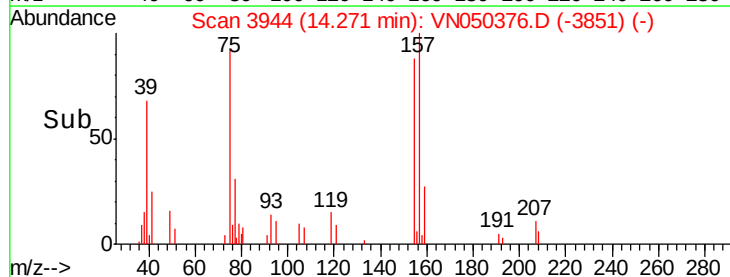
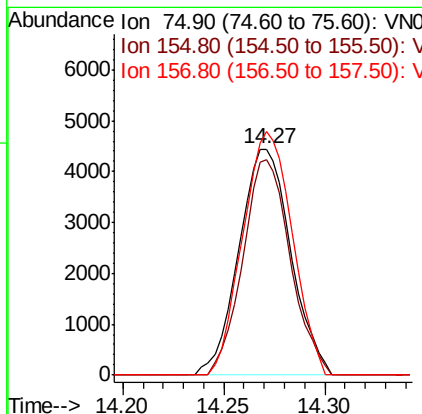
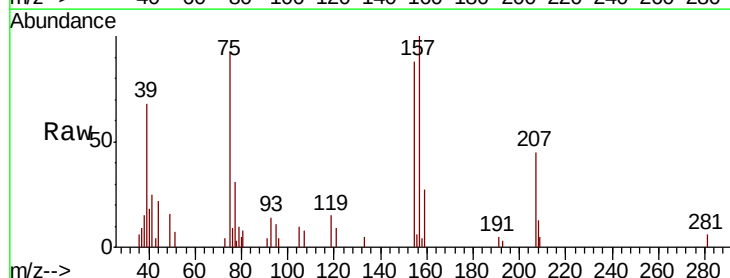
RT: 14.27 min Scan# 3944

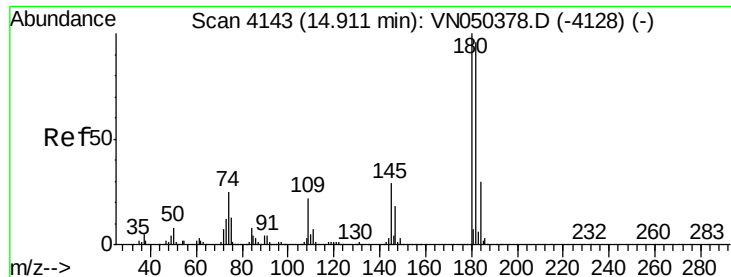
Delta R.T. -0.00 min

Lab File: VN050376.D

Acq: 6 Aug 2018 11:35

Tgt Ion:	75	Resp:	8001
Ion Ratio	Lower	Upper	
75	100		
155	87.2	44.8	134.4
157	102.6	57.2	171.6





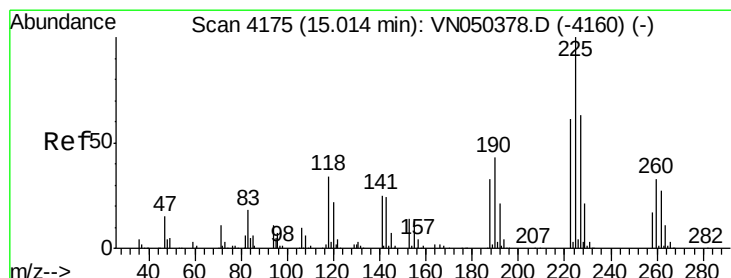
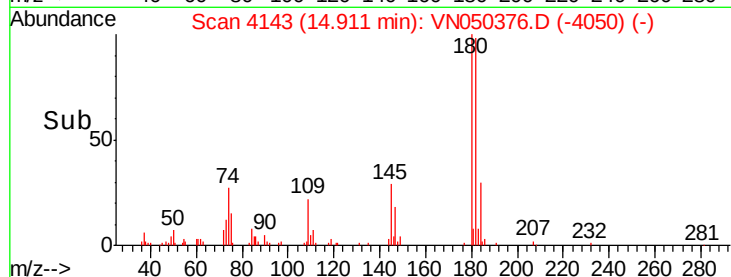
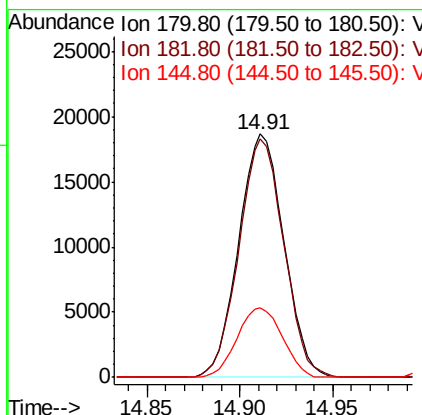
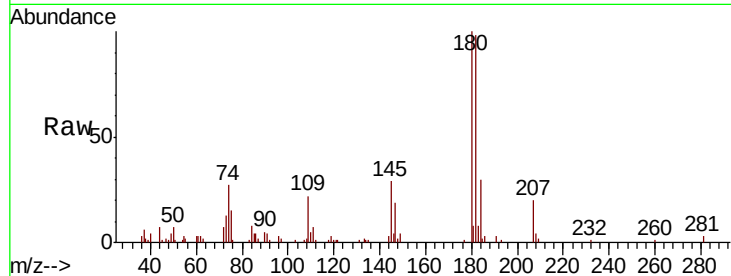
#93
 1,2,4-Trichlorobenzene
 Concen: 4.78 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion:	180	Resp:	31581
Ion Ratio	Lower	Upper	
180	100		
182	97.0	46.7	140.1
145	28.7	13.8	41.4

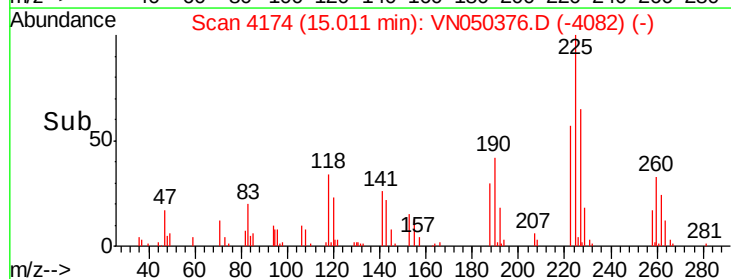
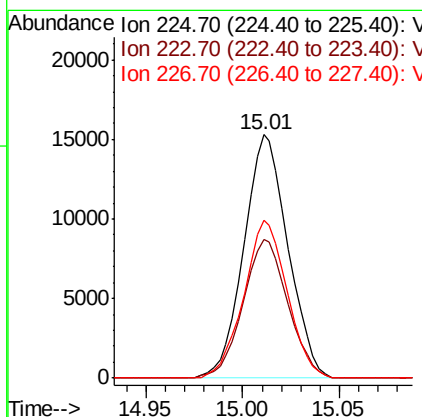
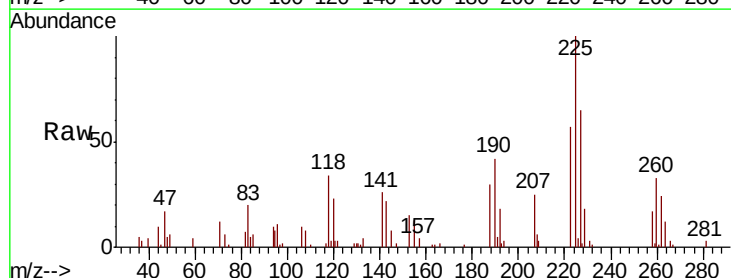
Manual Integrations
 APPROVED

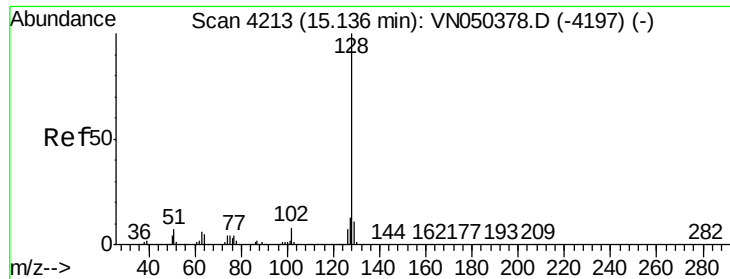
MMDadoda
 8/7/2018 9:57:54 AM



#94
 Hexachlorobutadiene
 Concen: 5.27 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050376.D
 Acq: 6 Aug 2018 11:35

Tgt Ion:	225	Resp:	24189
Ion Ratio	Lower	Upper	
225	100		
223	57.9	31.4	94.2
227	63.7	32.1	96.5





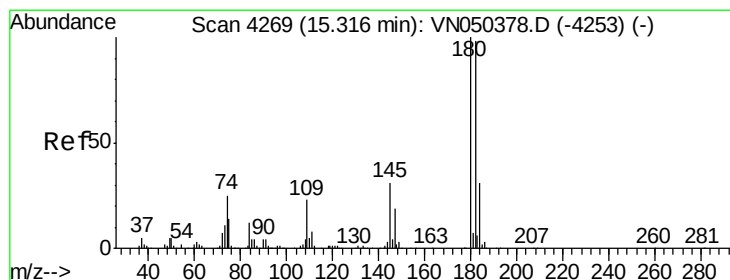
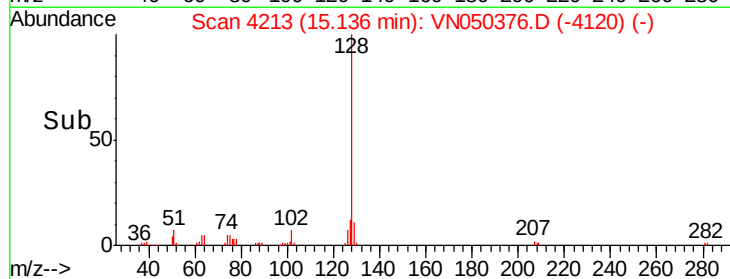
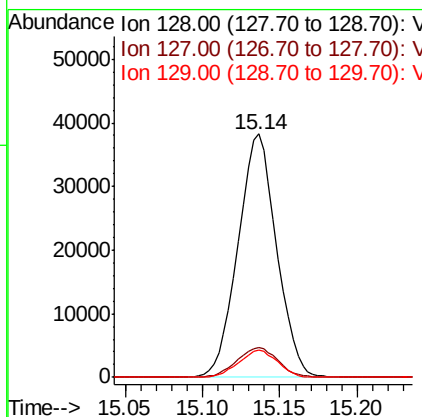
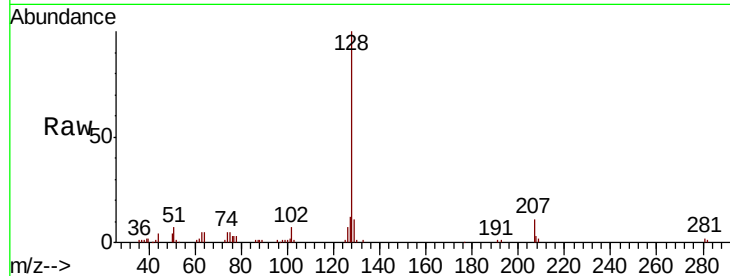
#95
Naphthalene
Concen: 4.44 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.1	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:57:54 AM



#96
1,2,3-Trichlorobenzene
Concen: 5.12 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN050376.D
Acq: 6 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.6	48.1	144.4
145	29.1	15.3	45.9

