

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101718\
 Data File : VN051902.D
 Acq On : 17 Oct 2018 10:35
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 3:29:24 PM

Quant Time: Oct 19 04:55:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 04:38:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1003585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1459701	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1377403	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	746526	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	880514	94.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	189.28%	
35) Dibromofluoromethane	7.59	113	914529	98.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	197.14%	
50) Toluene-d8	10.09	98	3366318	99.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	199.36%	
62) 4-Bromofluorobenzene	12.40	95	1198981	106.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	212.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	561845	92.52	ug/l	100
3) Chloromethane	2.06	50	549286	92.58	ug/l	98
4) Vinyl Chloride	2.18	62	836957	93.40	ug/l	99
5) Bromomethane	2.55	94	732714	85.85	ug/l	100
6) Chloroethane	2.70	64	602872	92.70	ug/l	99
7) Trichlorofluoromethane	3.01	101	1361843	98.62	ug/l	99
8) Diethyl Ether	3.41	74	397610	98.28	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	770059	97.19	ug/l	100
10) Methyl Iodide	3.95	142	1062407	109.85	ug/l	99
11) Tert butyl alcohol	4.79	59	277761	565.38	ug/l	99
12) 1,1-Dichloroethene	3.73	96	708340	98.07	ug/l	98
13) Acrolein	3.61	56	194702	477.65	ug/l	99
14) Allyl chloride	4.32	41	795844	104.98	ug/l	97
15) Acrylonitrile	4.99	53	1042642	529.63	ug/l	98
16) Acetone	3.82	43	785922	477.05	ug/l	98
17) Carbon Disulfide	4.05	76	1765462	98.04	ug/l	99
18) Methyl Acetate	4.33	43	497213	90.54	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	2071833	99.54	ug/l	100
20) Methylene Chloride	4.55	84	785610	93.81	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	808547	97.41	ug/l	99
22) Diisopropyl ether	5.96	45	1820032	99.83	ug/l	99
23) Vinyl Acetate	5.90	43	6542374	521.24	ug/l	99
24) 1,1-Dichloroethane	5.85	63	1283653	97.23	ug/l	99
25) 2-Butanone	6.84	43	1208449	513.25	ug/l	98
26) 2,2-Dichloropropane	6.83	77	1251987	100.27	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	959201	99.44	ug/l	99
28) Bromochloromethane	7.20	49	540537	100.82	ug/l	98
29) Tetrahydrofuran	7.21	42	740188	514.70	ug/l	99
30) Chloroform	7.37	83	1575266	99.73	ug/l	98
31) Cyclohexane	7.65	56	1045925	72.87	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1506529	102.26	ug/l	99
36) 1,1-Dichloropropene	7.79	75	1106247	97.64	ug/l	99
37) Ethyl Acetate	6.93	43	538282	108.23	ug/l	100
38) Carbon Tetrachloride	7.77	117	1369632	102.66	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1411121	100.59	ug/l	100
40) Benzene	8.04	78	3300697	99.73	ug/l	100
41) Methacrylonitrile	7.18	41	271320	105.49	ug/l	84
42) 1,2-Dichloroethane	8.13	62	1063512	100.30	ug/l	99
43) Isopropyl Acetate	8.17	43	1051111	104.54	ug/l #	90
44) Trichloroethene	8.83	130	1064110	102.45	ug/l	100
45) 1,2-Dichloropropane	9.12	63	764978	99.96	ug/l	99
46) Dibromomethane	9.21	93	602995	103.37	ug/l	98
47) Bromodichloromethane	9.40	83	1224797	104.76	ug/l	100
48) Methyl methacrylate	9.20	41	487587	106.61	ug/l	99
49) 1,4-Dioxane	9.20	88	184680	2125.99	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	2819531	534.60	ug/l	100
52) Toluene	10.16	92	2337089	105.56	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	1230529	111.06	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	1336627	108.19	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	860090	106.02	ug/l	99
56) Ethyl methacrylate	10.43	69	1004896	110.80	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1279535	103.59	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	2150743	559.73	ug/l	98
59) 2-Hexanone	10.75	43	1926771	544.84	ug/l	100
60) Dibromochloromethane	10.90	129	1109900	116.58	ug/l	100
61) 1,2-Dibromoethane	11.01	107	926728	108.91	ug/l	98
64) Tetrachloroethene	10.63	164	1053450	95.28	ug/l	98
65) Chlorobenzene	11.43	112	2781788	101.02	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	1076933	105.06	ug/l	100
67) Ethyl Benzene	11.51	91	4547492	100.80	ug/l	100
68) m/p-Xylenes	11.62	106	3773436	208.31	ug/l	99
69) o-Xylene	11.95	106	1841813	104.33	ug/l	100
70) Styrene	11.96	104	2985385	109.94	ug/l	99
71) Bromoform	12.13	173	794173	124.40	ug/l #	98
73) Isopropylbenzene	12.25	105	4982276	86.21	ug/l	100
74) N-amyl acetate	12.07	43	955347	96.15	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	1020560	87.38	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	802055m	84.96	ug/l	
77) Bromobenzene	12.53	156	1350493	91.84	ug/l	97
78) n-propylbenzene	12.59	91	5391046	89.61	ug/l	99
79) 2-Chlorotoluene	12.67	91	3111920	85.00	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	4200046	89.91	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	281061	112.10	ug/l	97
82) 4-Chlorotoluene	12.77	91	3199188	91.00	ug/l	98
83) tert-Butylbenzene	12.99	119	3805104	86.68	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	4240749	92.33	ug/l	100
85) sec-Butylbenzene	13.17	105	5047379	90.45	ug/l	99
86) p-Isopropyltoluene	13.29	119	4650887	96.16	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	2452645	98.96	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	2404648	98.72	ug/l	98
89) n-Butylbenzene	13.62	91	3622455	103.25	ug/l	99
90) Hexachloroethane	13.88	117	790730	97.75	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	2369441	98.72	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	154205	98.56	ug/l	95

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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)
93) 1,2,4-Trichlorobenzene	14.91	180	1218328	117.16	ug/l	99
94) Hexachlorobutadiene	15.01	225	705379	92.80	ug/l	99
95) Naphthalene	15.13	128	2517275	121.68	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	1181031	114.58	ug/l	98

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

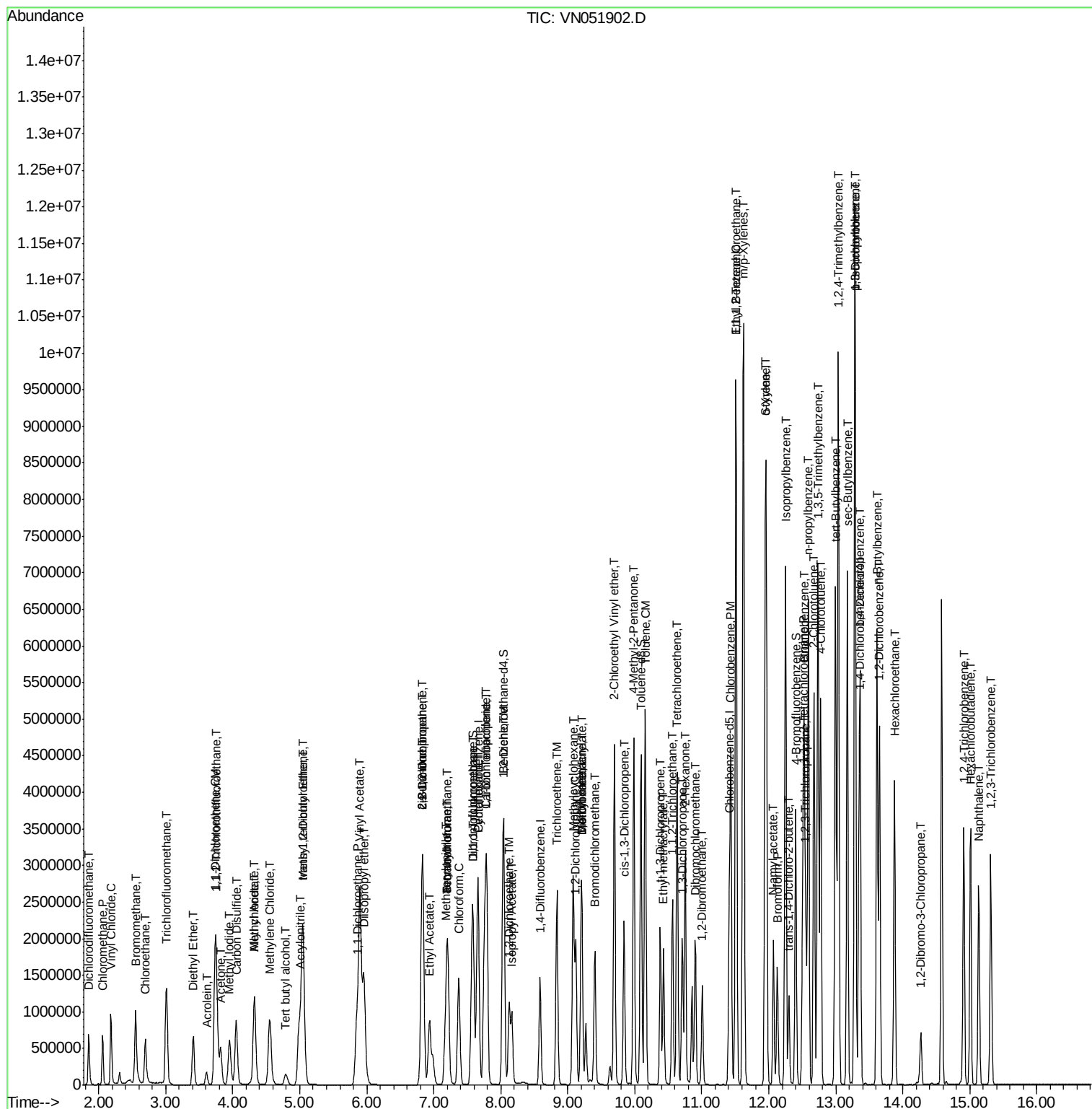
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101718\
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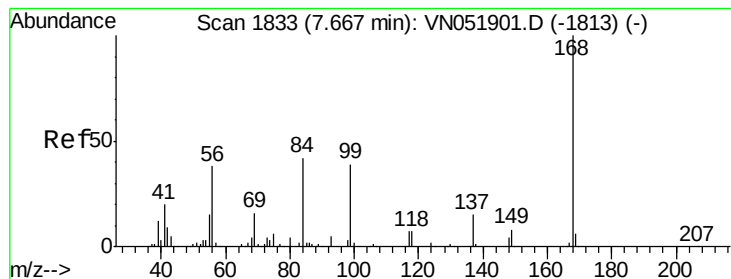
Instrument :
MSVOA_N
Client Sample Id :
VSTDIC100

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 168 Resp: 1003585

Ion Ratio Lower Upper

168 100

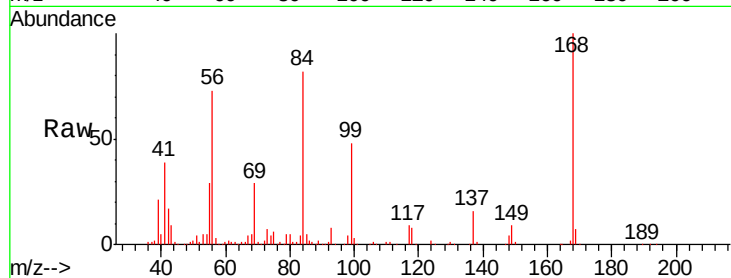
99 47.2 39.2 58.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

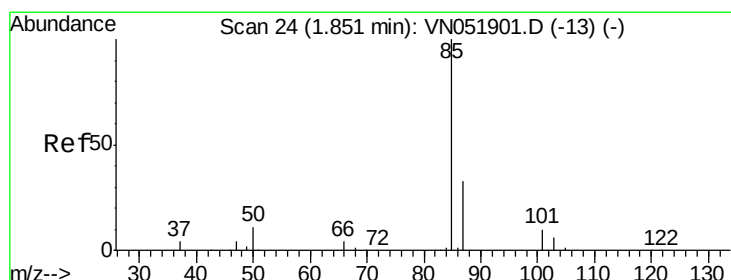
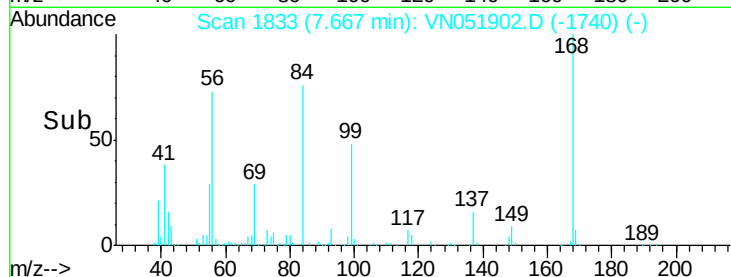
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 92.52 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051902.D

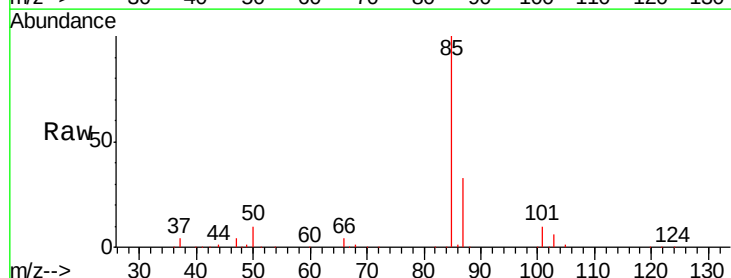
Acq: 17 Oct 2018 10:35

Tgt Ion: 85 Resp: 561845

Ion Ratio Lower Upper

85 100

87 32.8 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

400000

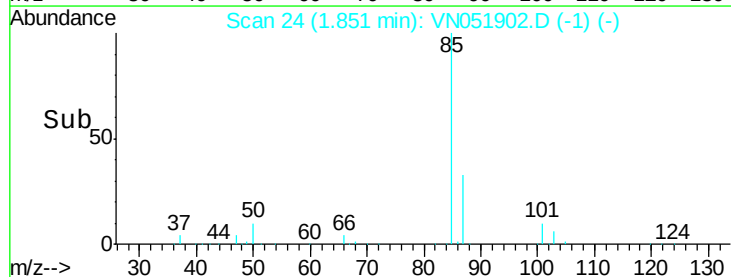
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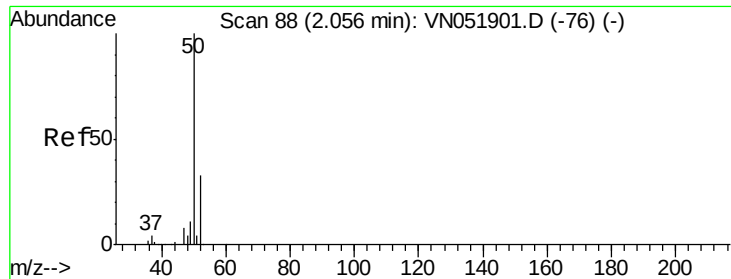
200000

100000

0

Time-->





#3

Chloromethane

Concen: 92.58 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 50 Resp: 549286

Ion Ratio Lower Upper

50 100

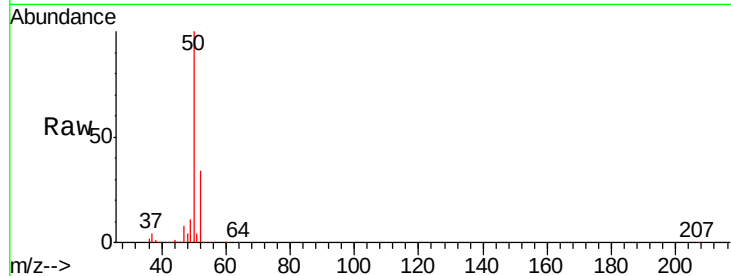
52 34.1 26.3 39.5

Manual Integrations

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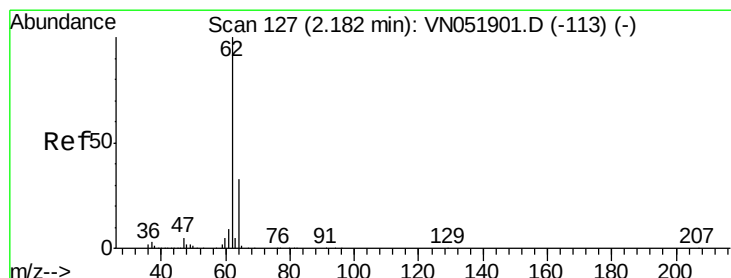
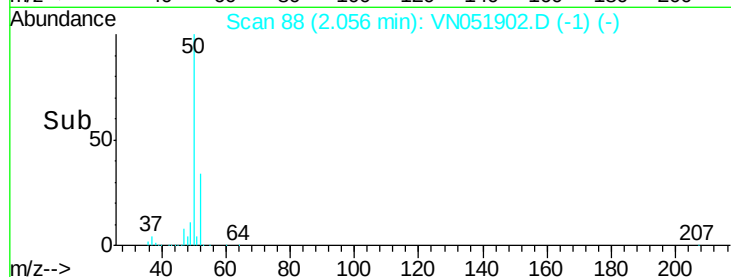
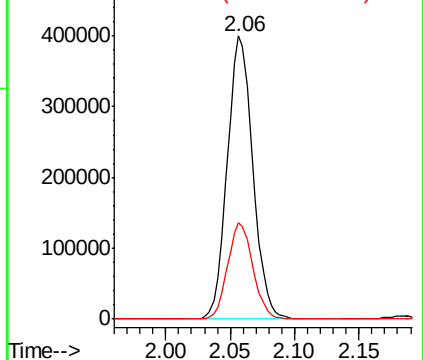
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 93.40 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051902.D

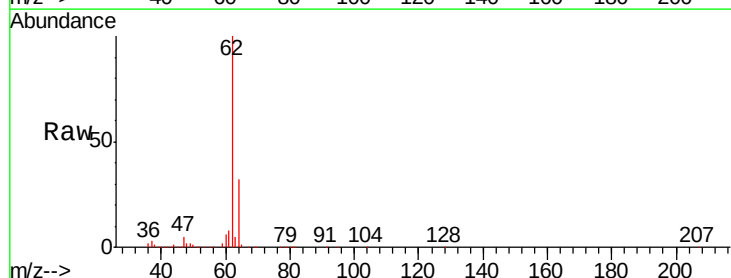
Acq: 17 Oct 2018 10:35

Tgt Ion: 62 Resp: 836957

Ion Ratio Lower Upper

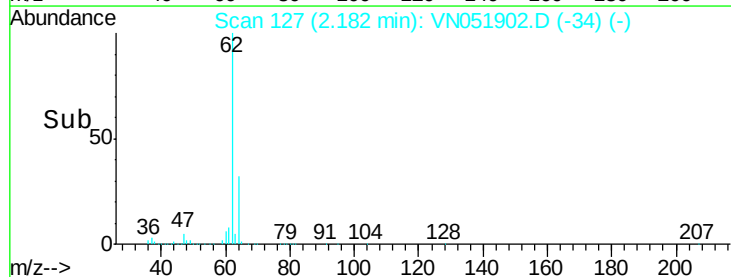
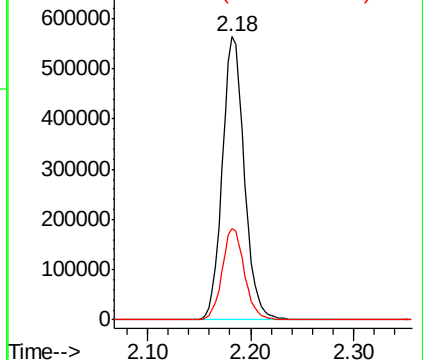
62 100

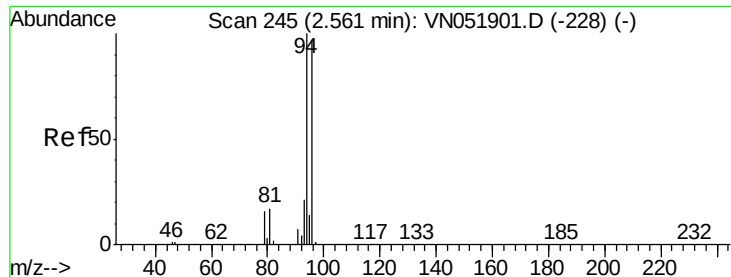
64 32.4 26.2 39.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 85.85 ug/l

RT: 2.55 min Scan# 242

Delta R.T. -0.01 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 94 Resp: 732714

Ion Ratio Lower Upper

94 100

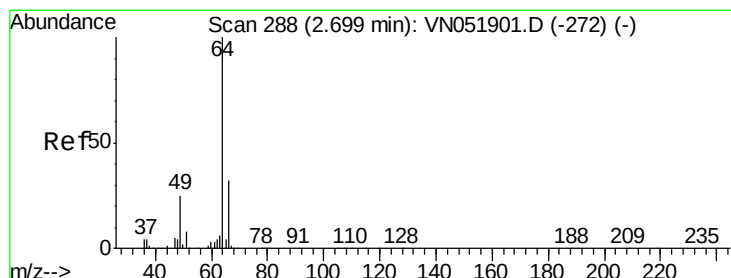
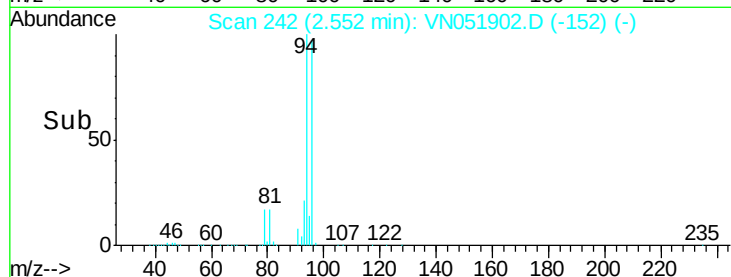
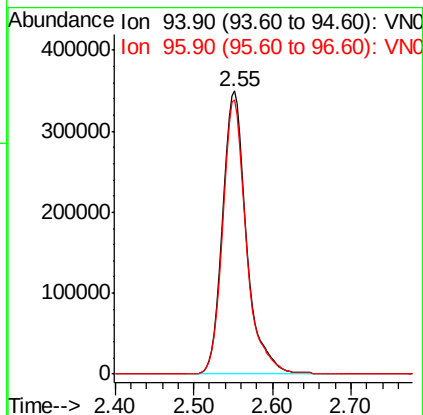
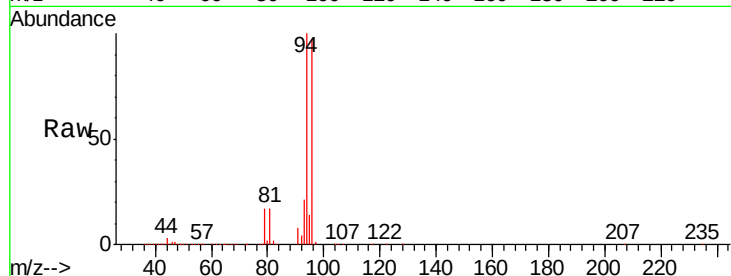
96 97.1 77.5 116.3

Manual Integrations

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#6

Chloroethane

Concen: 92.70 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.00 min

Lab File: VN051902.D

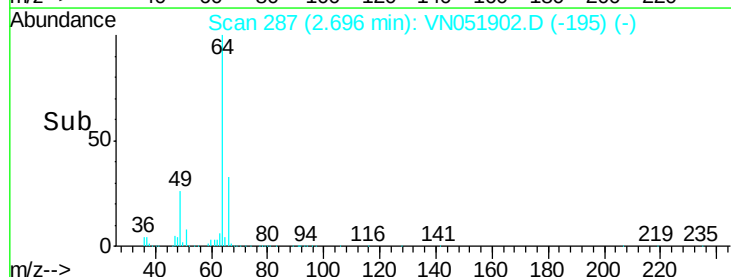
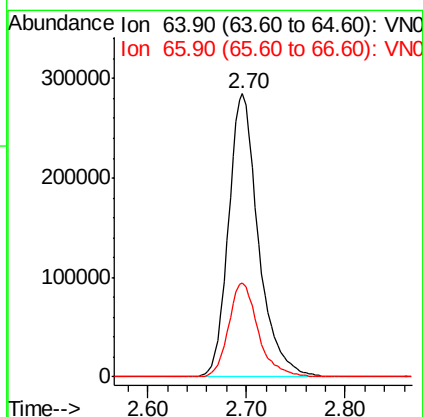
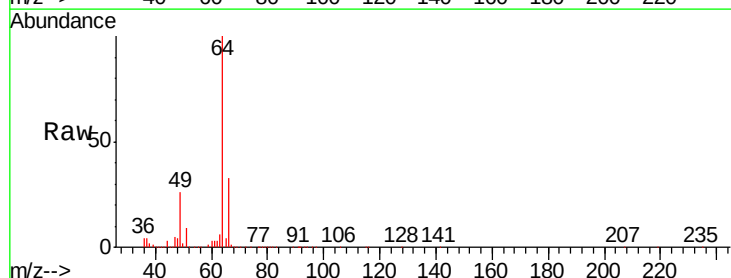
Acq: 17 Oct 2018 10:35

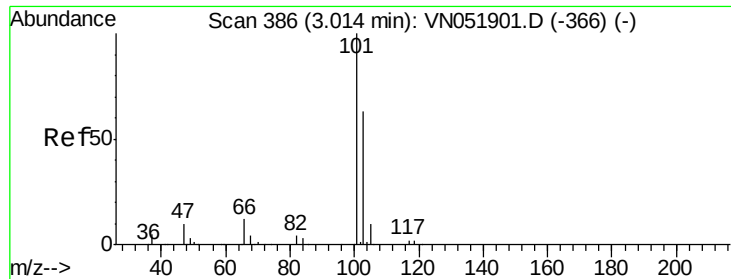
Tgt Ion: 64 Resp: 602872

Ion Ratio Lower Upper

64 100

66 33.1 25.9 38.9





#7

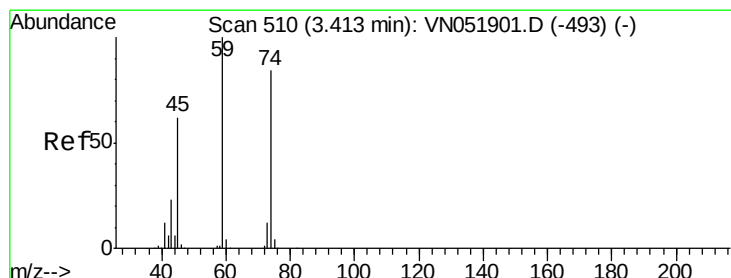
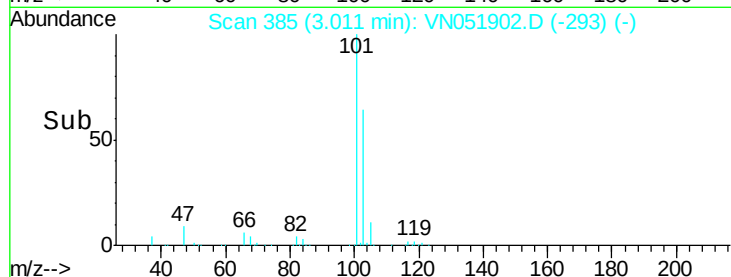
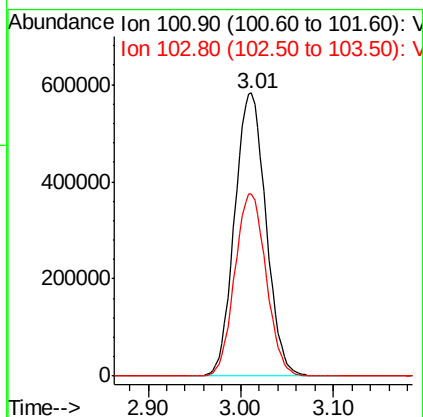
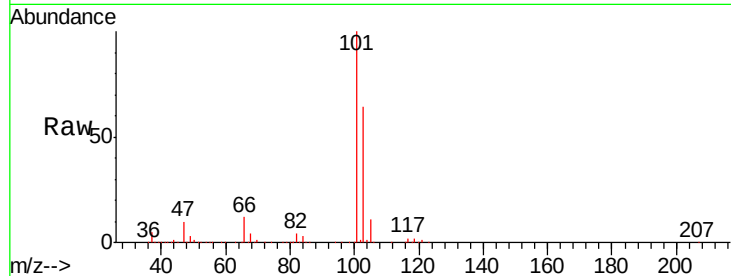
Trichlorofluoromethane
 Concen: 98.62 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. -0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion: 101 Resp: 1361843
 Ion Ratio Lower Upper
 101 100
 103 64.4 50.8 76.2

Manual Integrations
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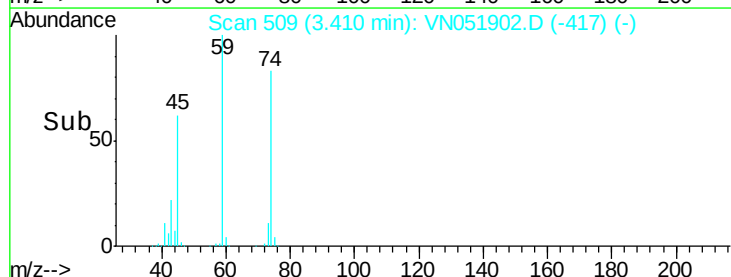
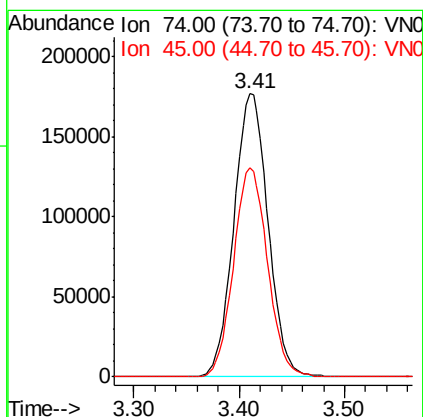
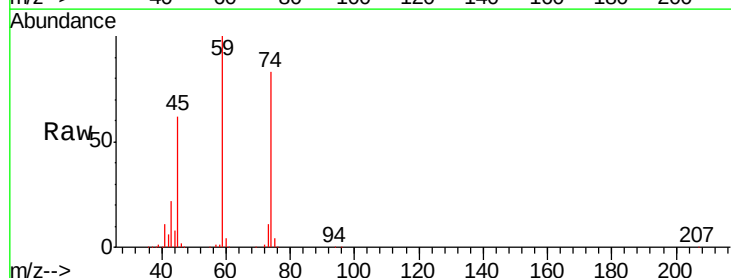
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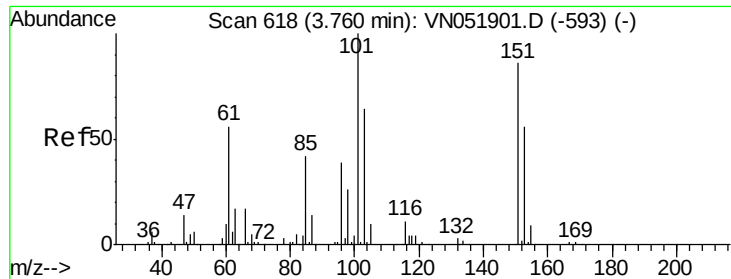


#8

Diethyl Ether
 Concen: 98.28 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Tgt Ion: 74 Resp: 397610
 Ion Ratio Lower Upper
 74 100
 45 73.6 36.8 110.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 97.19 ug/l

RT: 3.76 min Scan# 617

Delta R.T. -0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

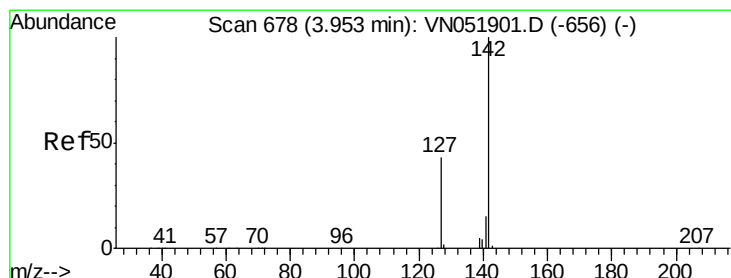
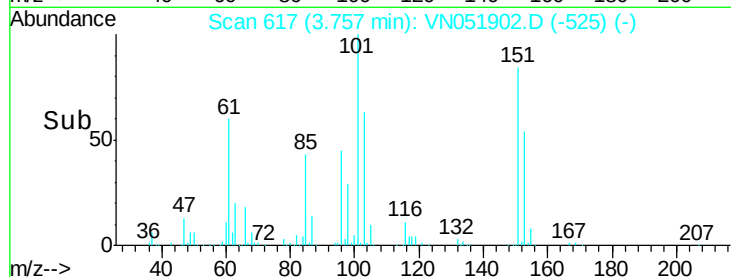
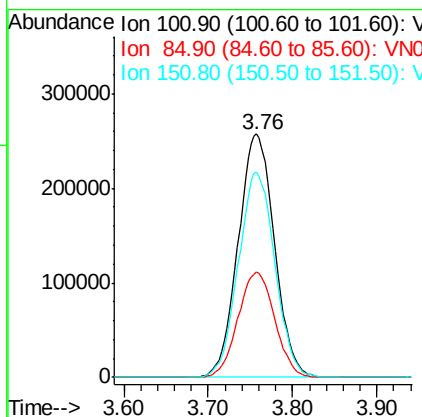
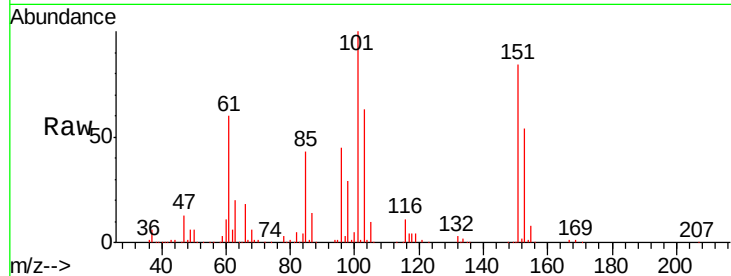
ClientSampleId :

VSTDIC100

Tgt Ion:	101	Resp:	770059
Ion Ratio	Lower	Upper	
101	100		
85	43.8	34.8	52.2
151	85.1	68.0	102.0

Manual Integrations
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#10

Methyl Iodide

Concen: 109.85 ug/l

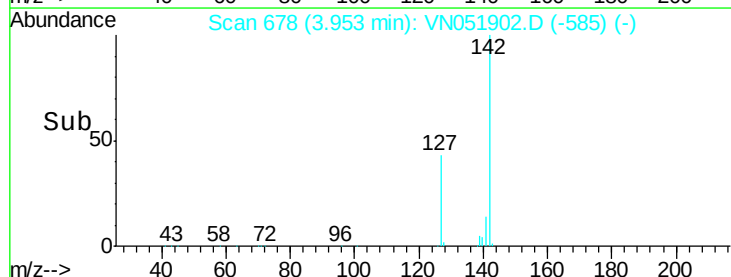
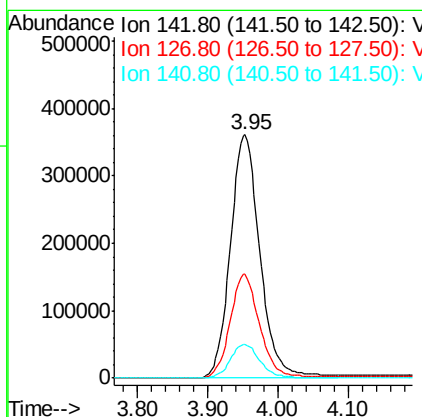
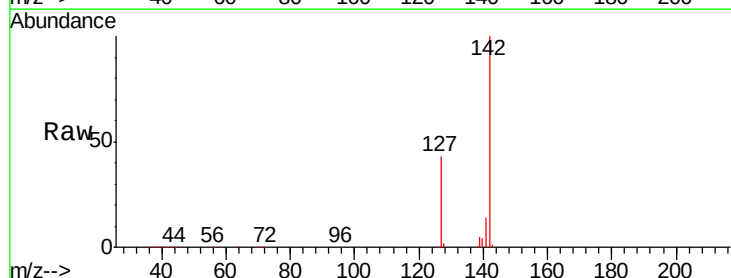
RT: 3.95 min Scan# 678

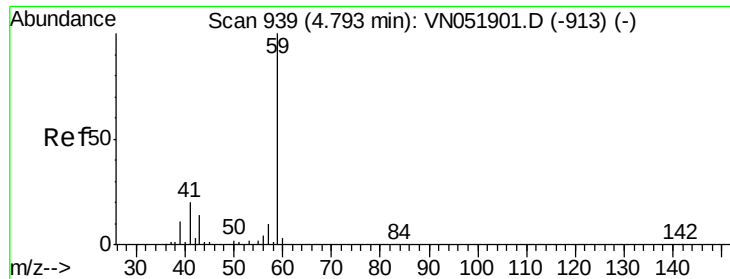
Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Tgt Ion:	142	Resp:	1062407
Ion Ratio	Lower	Upper	
142	100		
127	42.3	34.3	51.5
141	14.0	11.1	16.7





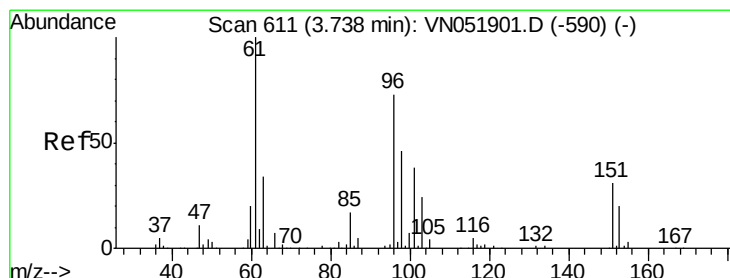
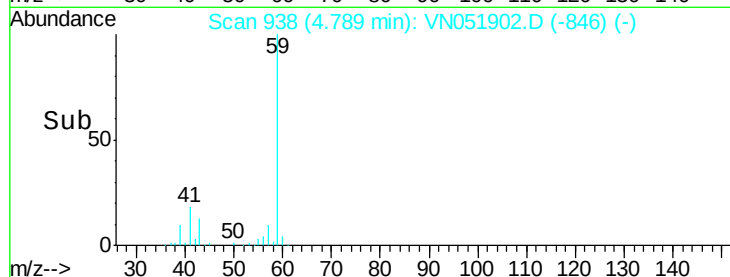
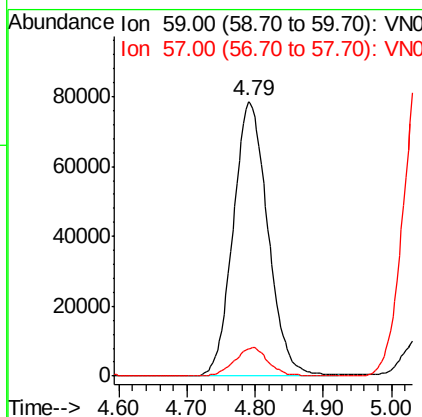
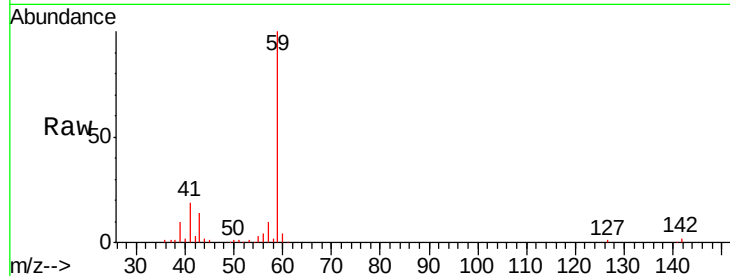
#11
Tert butyl alcohol
Concen: 565.38 ug/l
RT: 4.79 min Scan# 938
Delta R.T. -0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5

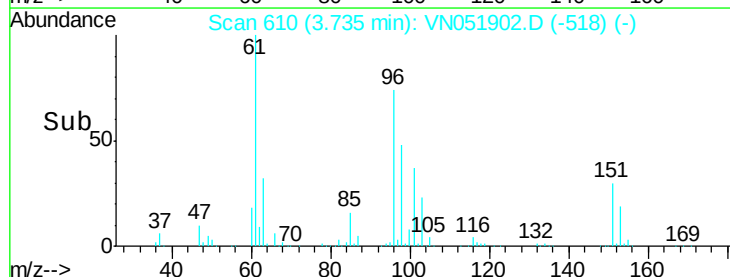
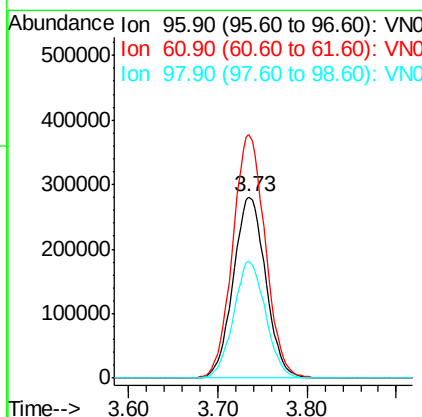
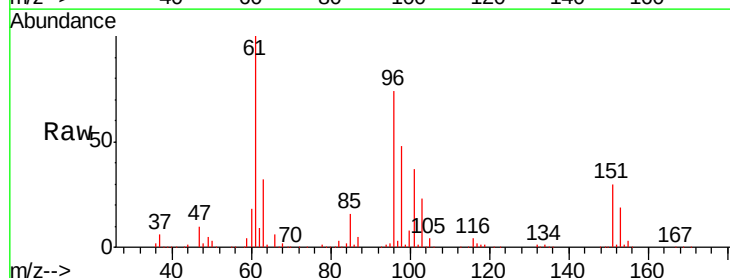
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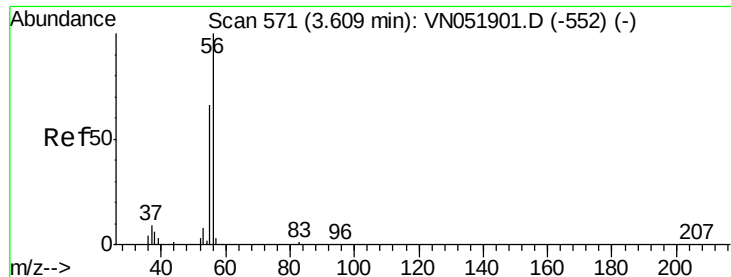
MMDadoda
10/19/2018 3:29:24 PM



#12
1,1-Dichloroethene
Concen: 98.07 ug/l
RT: 3.73 min Scan# 610
Delta R.T. -0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	134.4	109.8	164.6
98	64.8	50.9	76.3





#13

Acrolein

Concen: 477.65 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 194702

Ion Ratio Lower Upper

56 100

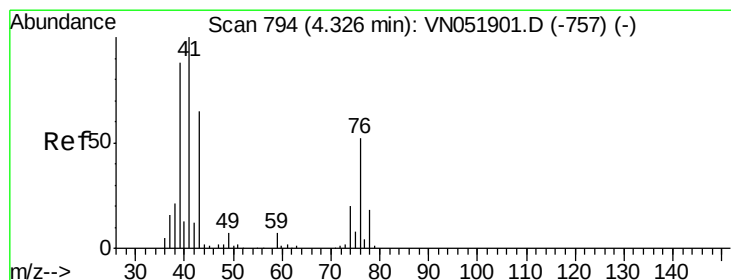
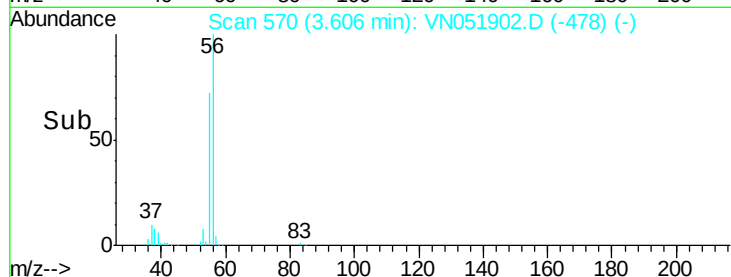
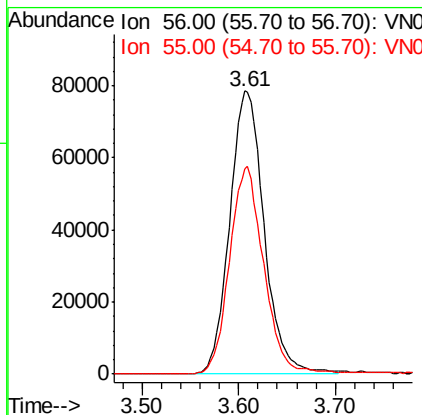
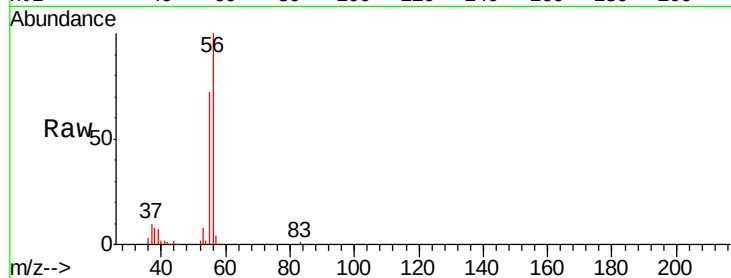
55 71.6 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 104.98 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

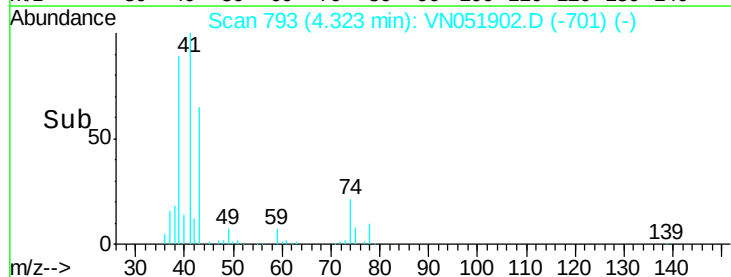
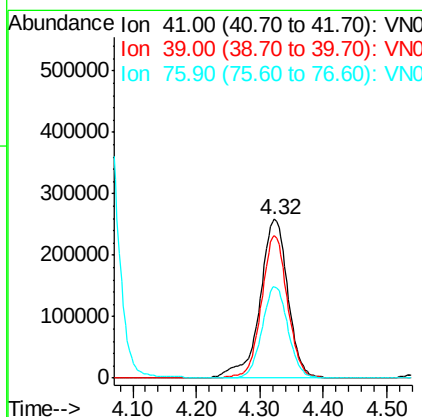
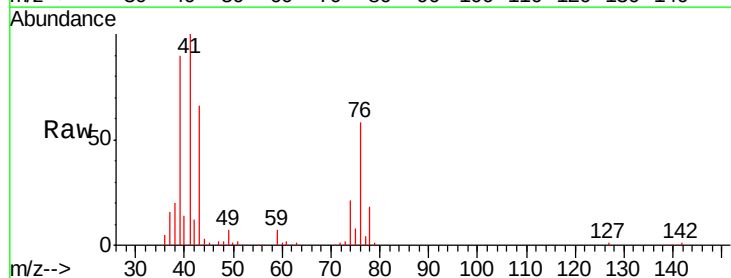
Tgt Ion: 41 Resp: 795844

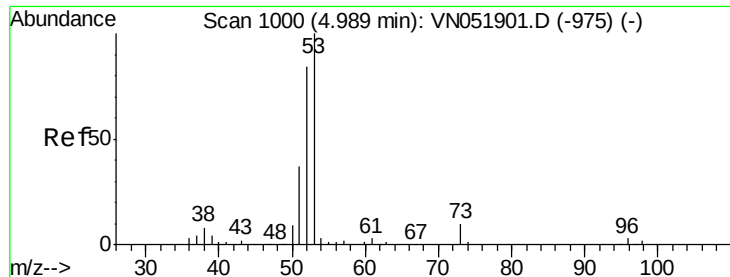
Ion Ratio Lower Upper

41 100

39 83.4 65.4 98.0

76 52.6 39.6 59.4





#15

Acrylonitrile

Concen: 529.63 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 53 Resp: 1042642

Ion Ratio Lower Upper

53 100

52 83.8 65.8 98.8

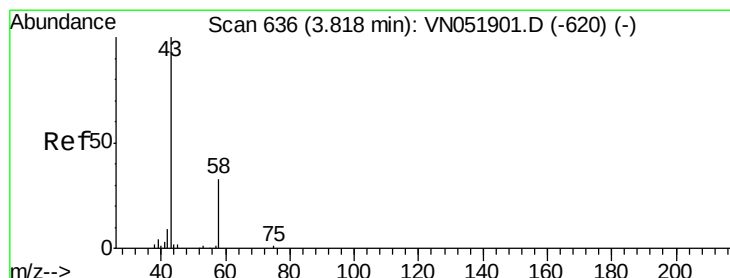
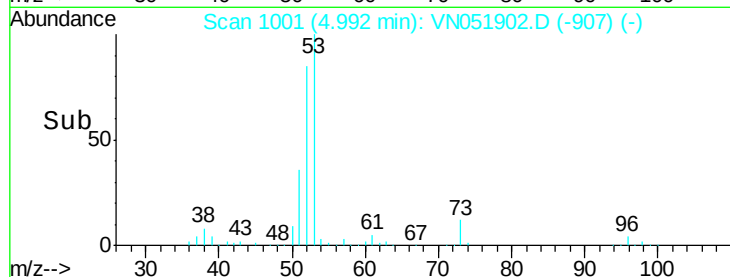
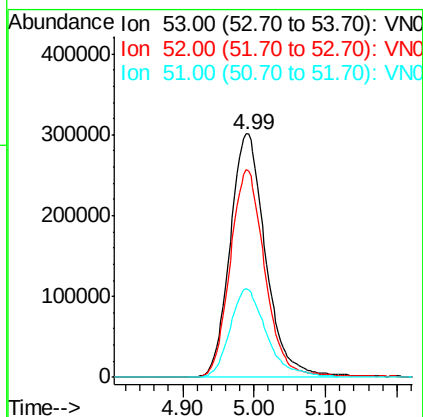
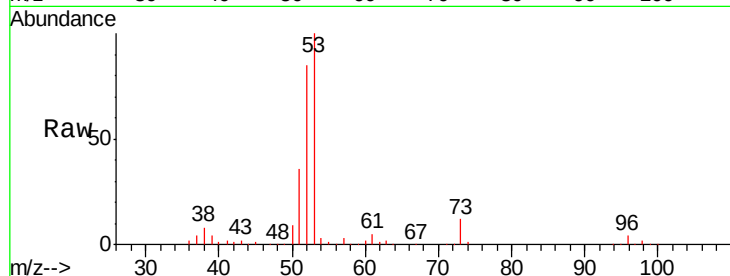
51 37.5 29.4 44.2

Manual Integrations

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#16

Acetone

Concen: 477.05 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051902.D

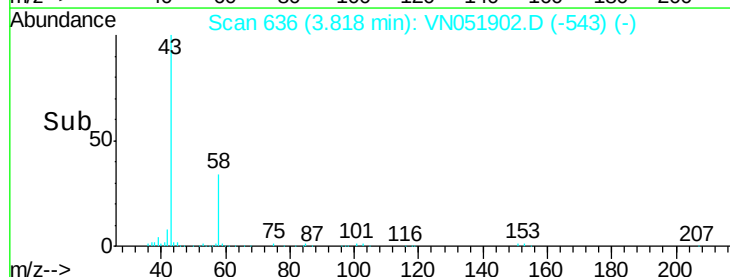
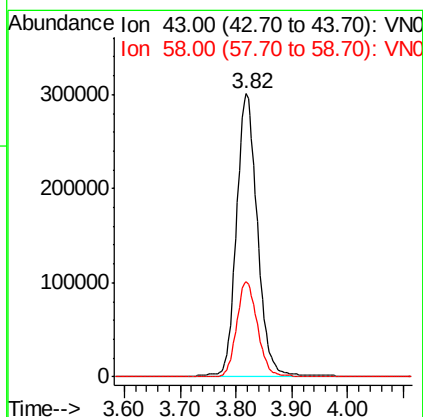
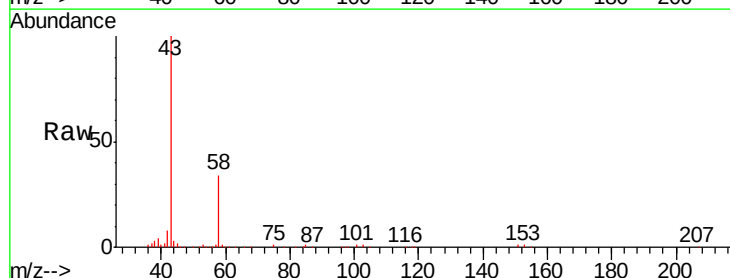
Acq: 17 Oct 2018 10:35

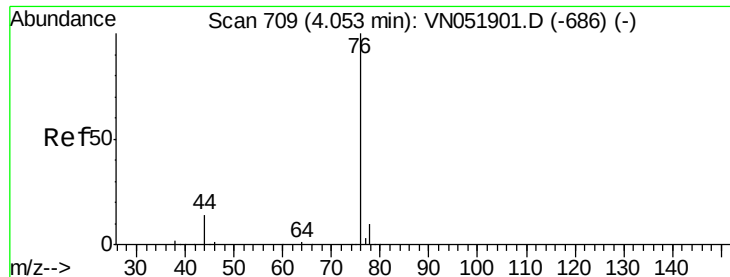
Tgt Ion: 43 Resp: 785922

Ion Ratio Lower Upper

43 100

58 33.5 25.9 38.9





#17

Carbon Disulfide

Concen: 98.04 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 1765462

Ion Ratio Lower Upper

76 100

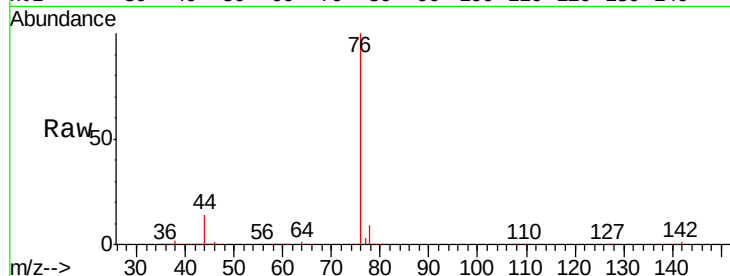
78 9.1 7.6 11.4

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN051901.D (-686) (-)

Ion 77.90 (77.60 to 78.60): VN051901.D (-686) (-)

4.05

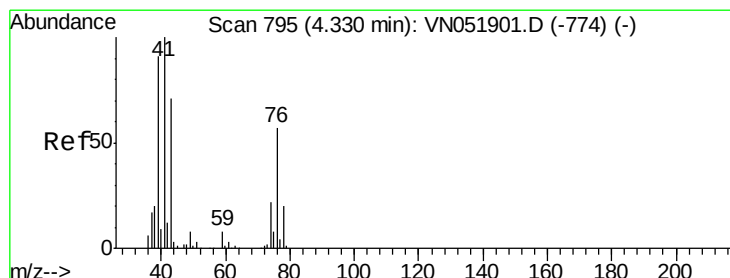
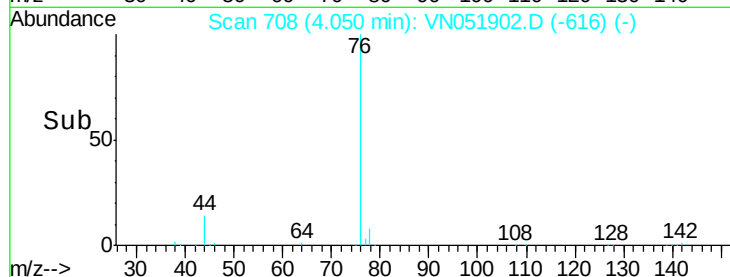
600000

400000

200000

0

Time-->



#18

Methyl Acetate

Concen: 90.54 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051902.D

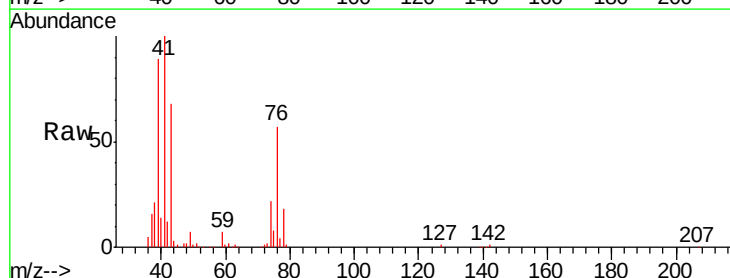
Acq: 17 Oct 2018 10:35

Tgt Ion: 43 Resp: 497213

Ion Ratio Lower Upper

43 100

74 32.6 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-774) (-)

Ion 74.00 (73.70 to 74.70): VN051901.D (-774) (-)

4.33

200000

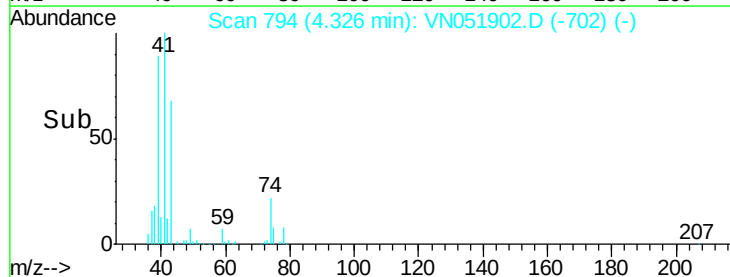
150000

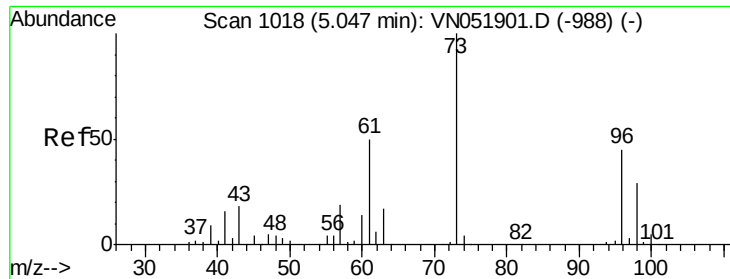
100000

50000

0

Time-->





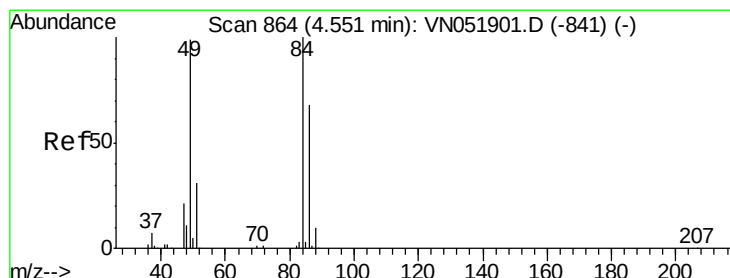
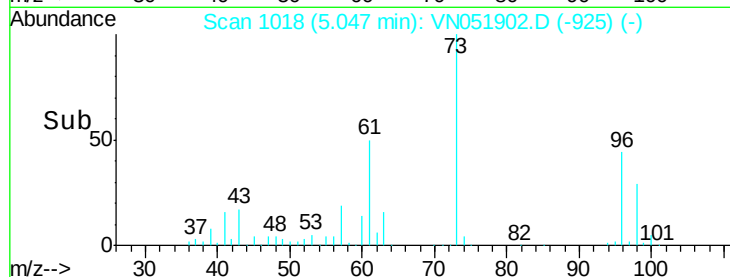
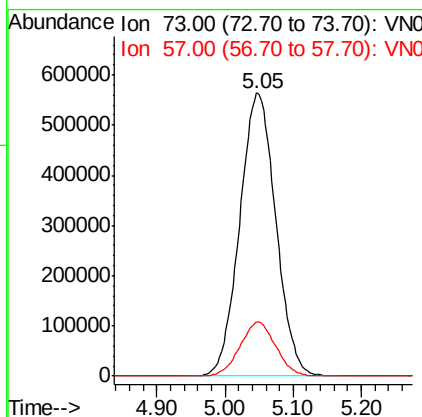
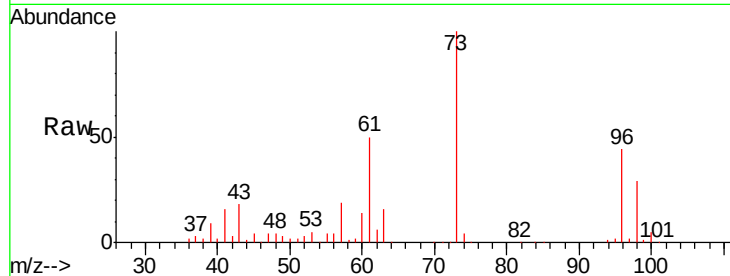
#19
Methyl tert-butyl Ether
Concen: 99.54 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 73 Resp: 2071833
Ion Ratio Lower Upper
73 100
57 19.0 15.3 22.9

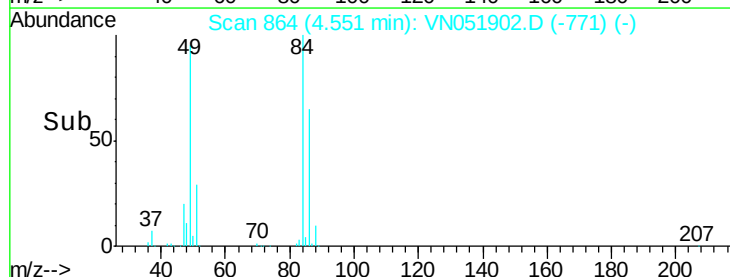
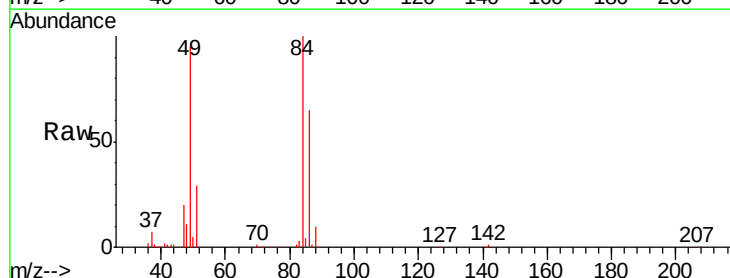
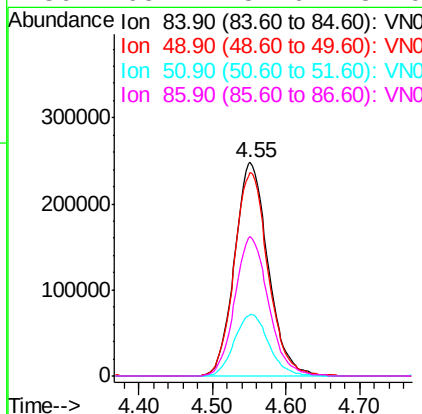
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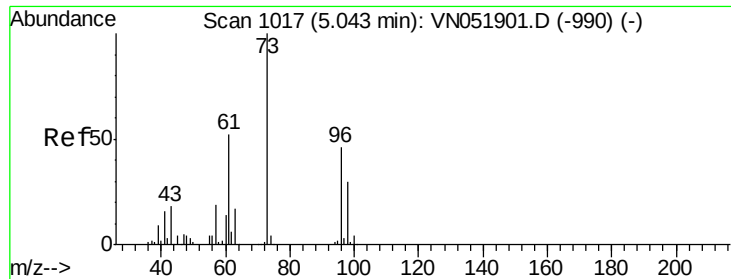
MMDadoda
10/19/2018 3:29:24 PM



#20
Methylene Chloride
Concen: 93.81 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion: 84 Resp: 785610
Ion Ratio Lower Upper
84 100
49 95.1 79.0 118.4
51 28.9 24.9 37.3
86 65.2 54.6 82.0





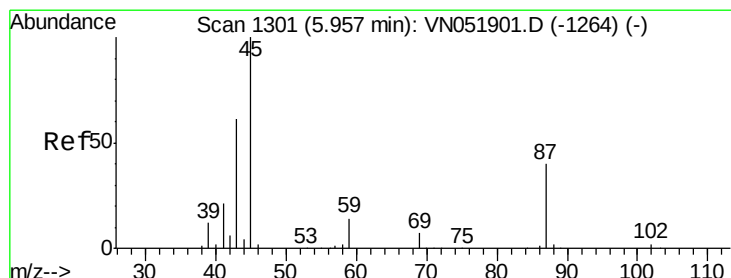
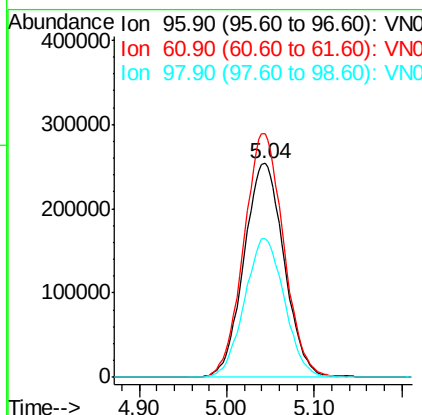
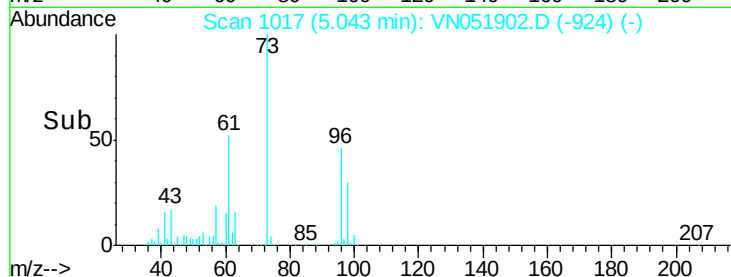
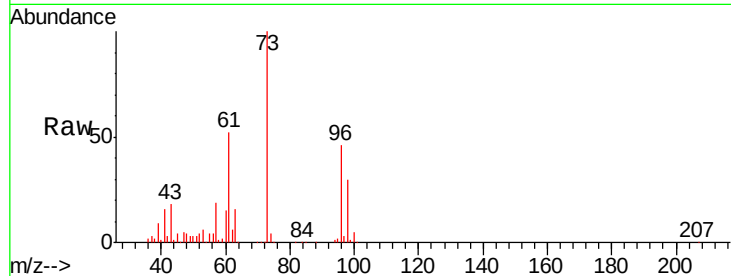
#21
trans-1,2-Dichloroethene
Concen: 97.41 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
96	100		
61	113.8	89.8	134.6
98	65.1	51.7	77.5

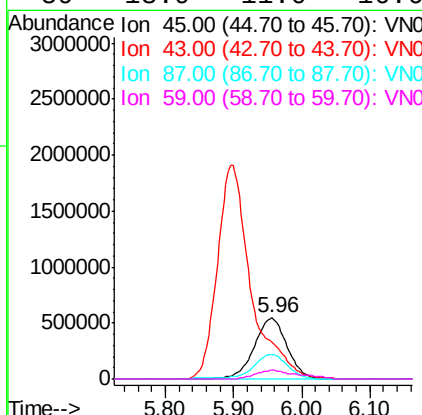
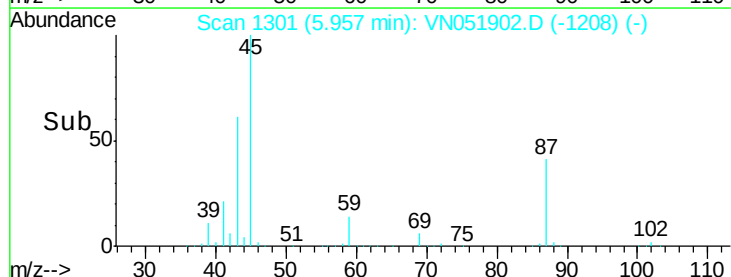
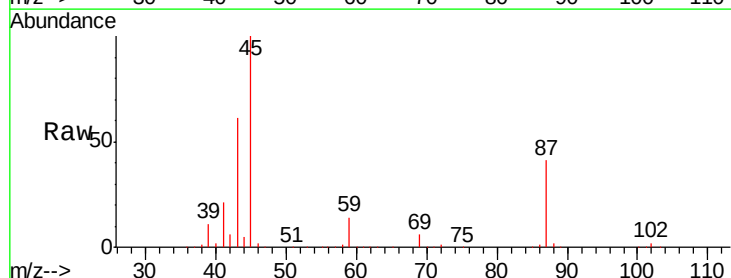
Manual Integrations
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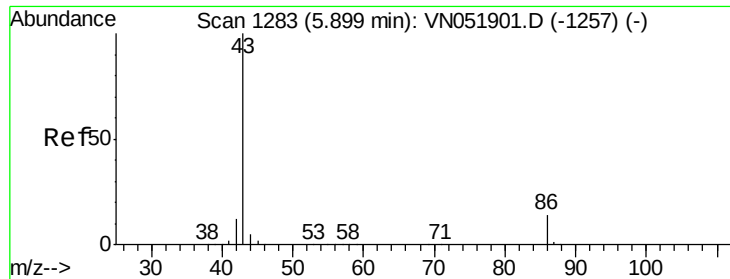
MMDadoda
10/19/2018 3:29:24 PM



#22
Diisopropyl ether
Concen: 99.83 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.6	48.9	73.3
87	40.7	32.6	48.8
59	13.9	11.0	16.6





#23

Vinyl Acetate

Concen: 521.24 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 6542374

Ion Ratio Lower Upper

43 100

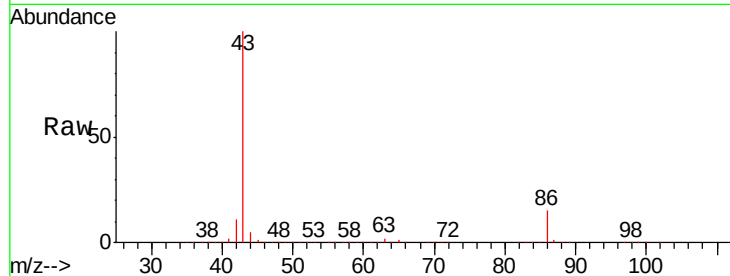
86 14.7 11.5 17.3

Manual Integrations

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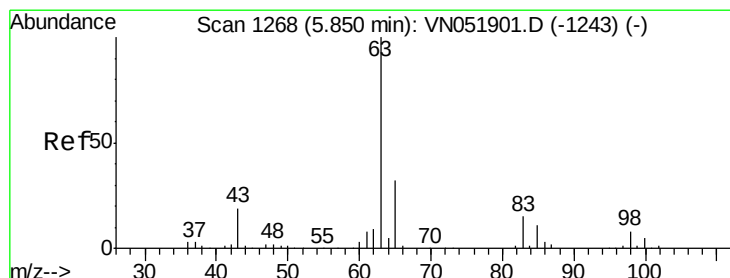
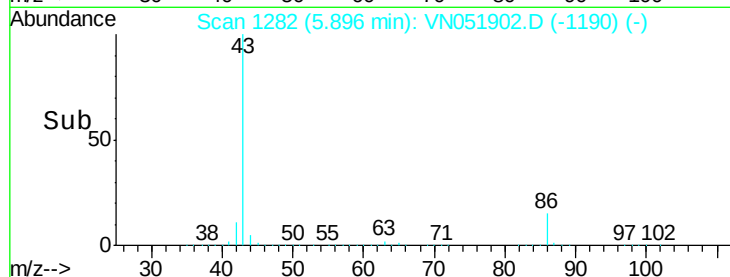
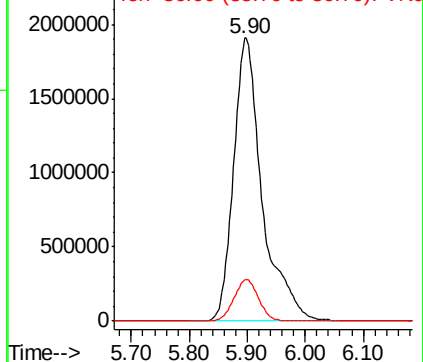
MMDadoda

10/19/2018 3:29:24 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 97.23 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

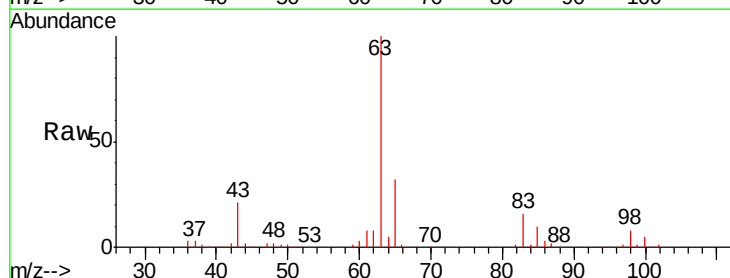
Tgt Ion: 63 Resp: 1283653

Ion Ratio Lower Upper

63 100

98 7.7 4.0 12.0

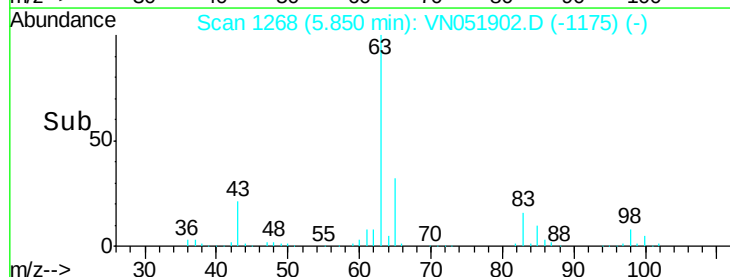
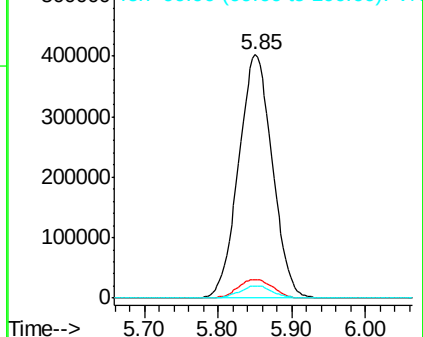
100 5.0 2.4 7.1

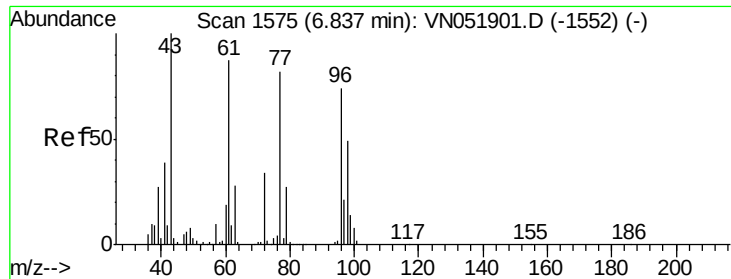


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





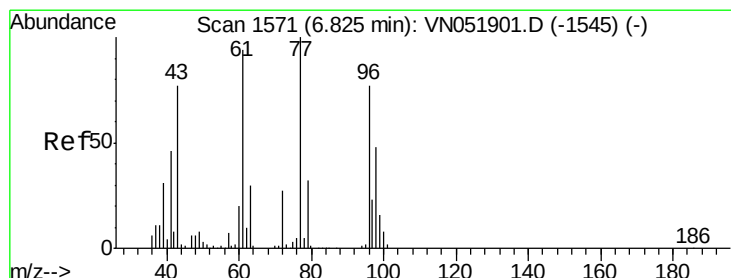
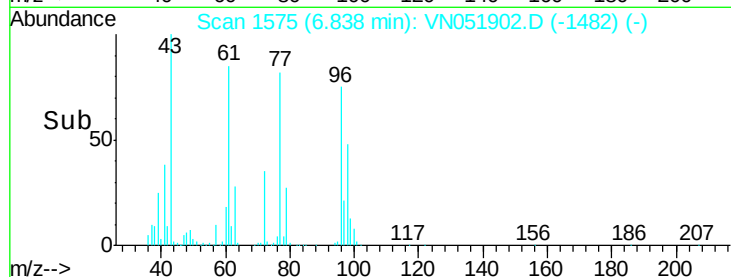
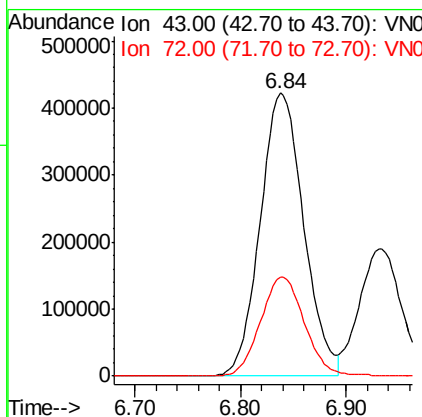
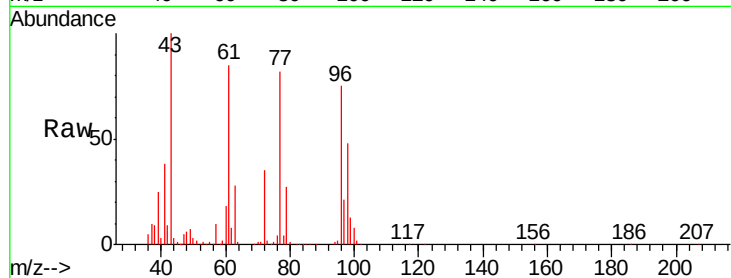
#25
2-Butanone
Concen: 513.25 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 43 Resp: 1208449
Ion Ratio Lower Upper
43 100
72 35.2 27.0 40.6

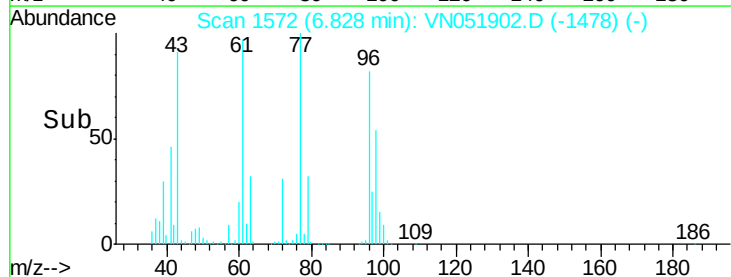
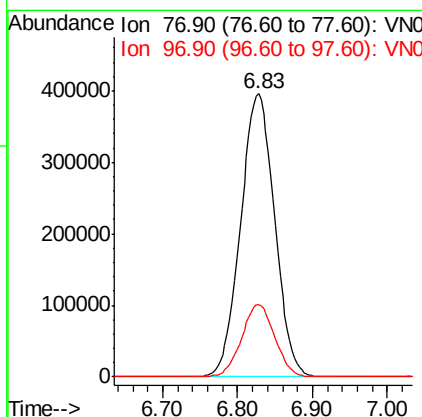
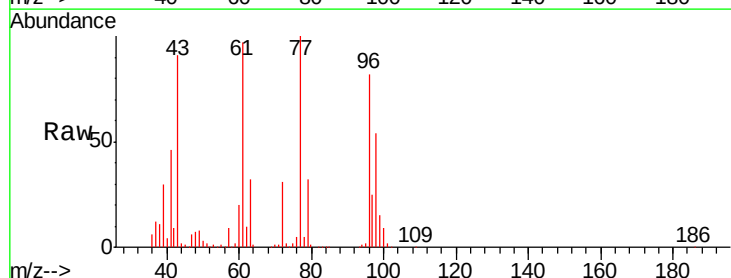
Manual Integrations
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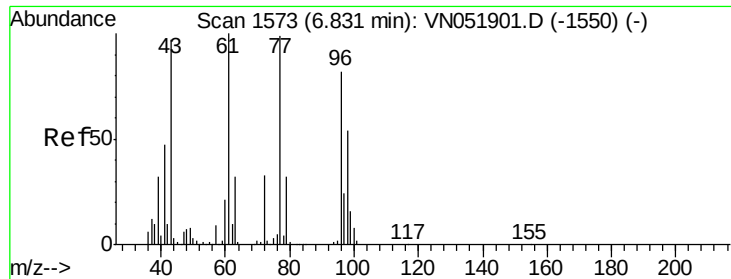
MMDadoda
10/19/2018 3:29:24 PM



#26
2,2-Dichloropropane
Concen: 100.27 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion: 77 Resp: 1251987
Ion Ratio Lower Upper
77 100
97 25.0 12.0 36.1





#27

cis-1,2-Dichloroethene

Concen: 99.44 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

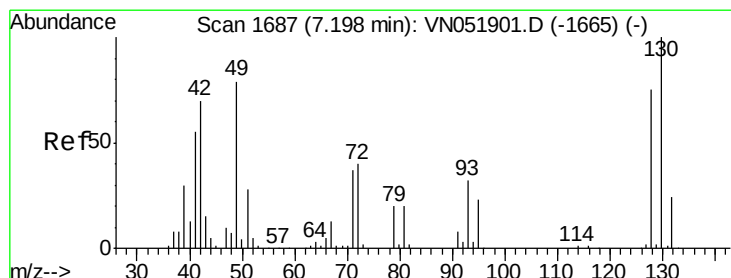
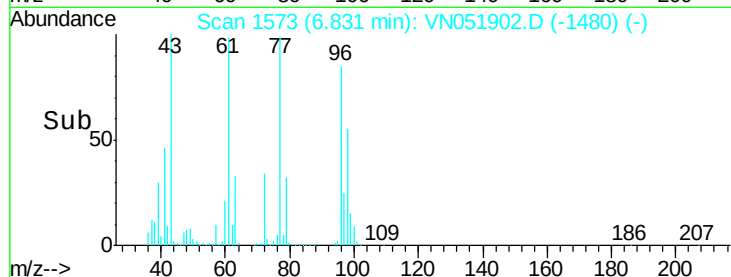
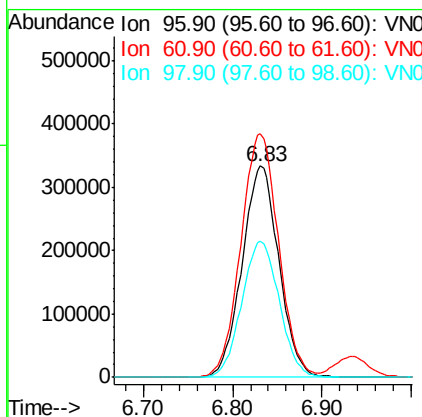
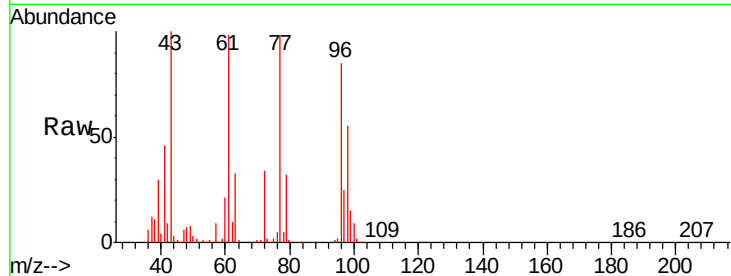
ClientSampleId :

VSTDIC100

Tgt Ion:	96	Resp:	959201
Ion	Ratio	Lower	Upper
96	100		
61	118.2	0.0	240.2
98	65.7	0.0	129.8

Manual Integrations
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MMDadoda
10/19/2018 3:29:24 PM



#28

Bromochloromethane

Concen: 100.82 ug/l

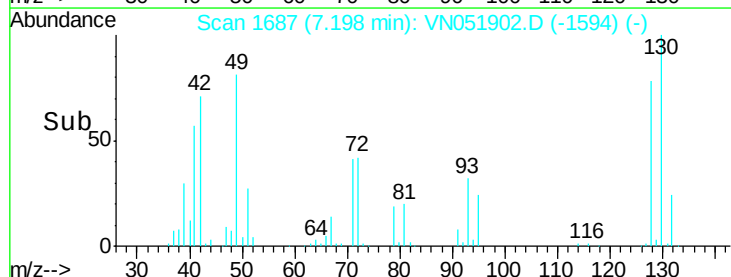
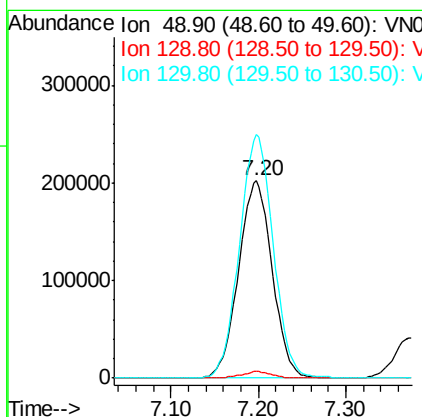
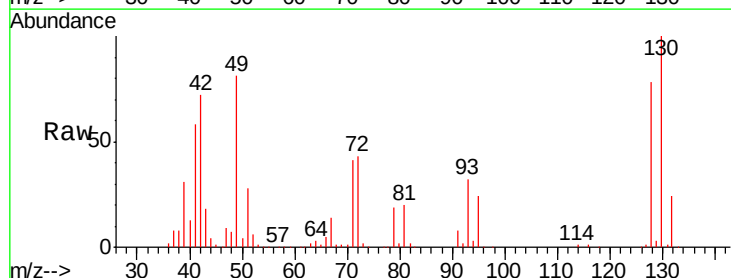
RT: 7.20 min Scan# 1687

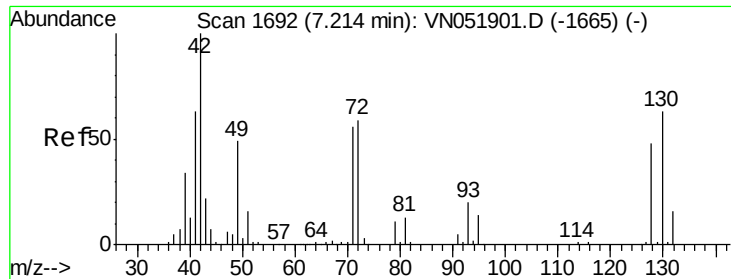
Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Tgt Ion:	49	Resp:	540537
Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	6.0
130	123.6	96.7	145.1





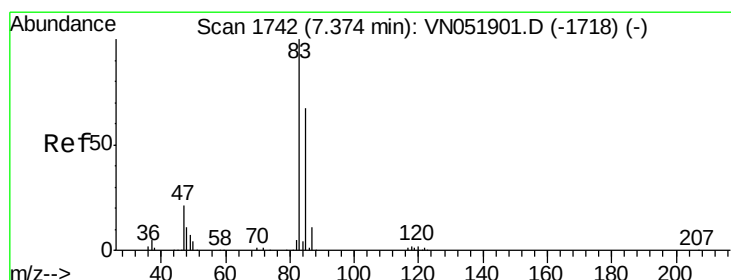
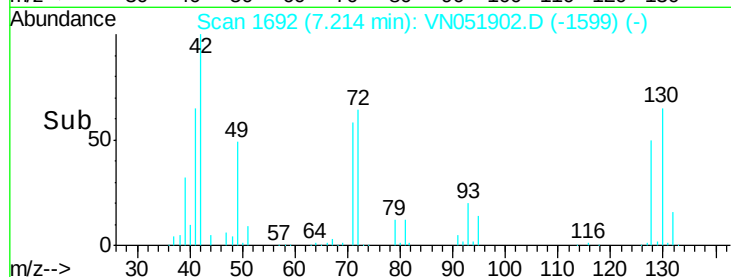
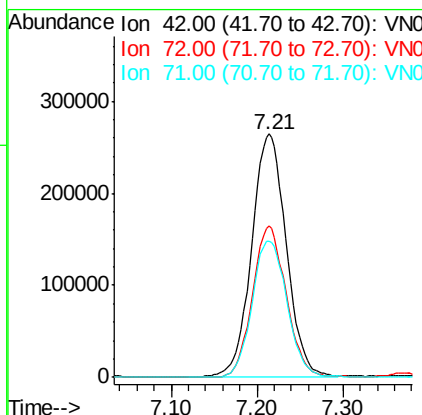
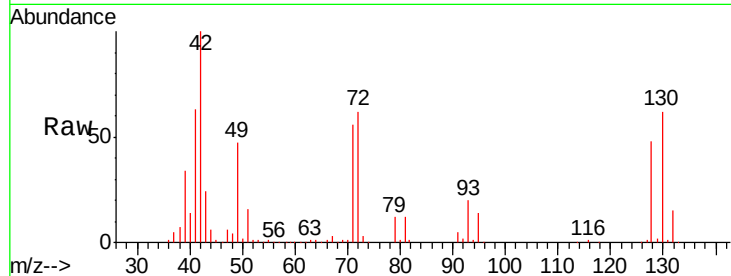
#29
Tetrahydrofuran
Concen: 514.70 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
42	100		
72	60.8	47.7	71.5
71	56.9	45.4	68.0

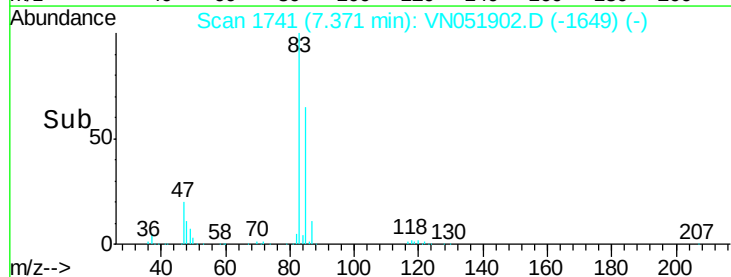
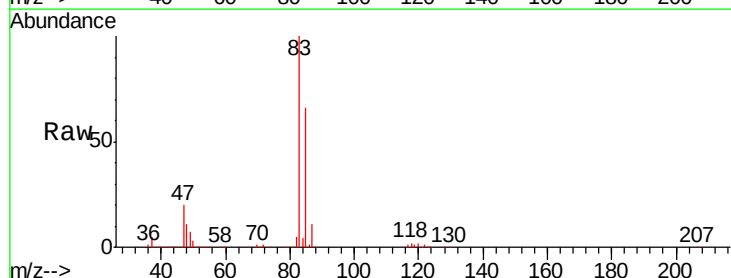
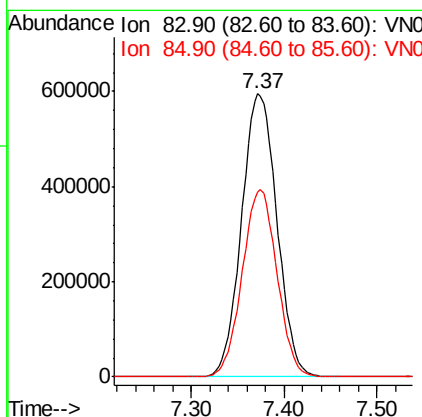
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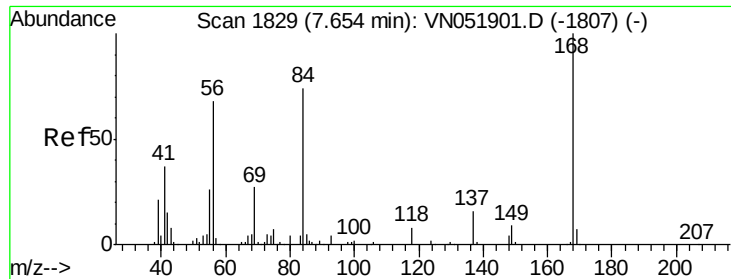
MMDadoda
10/19/2018 3:29:24 PM



#30
Chloroform
Concen: 99.73 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	53.4	80.2





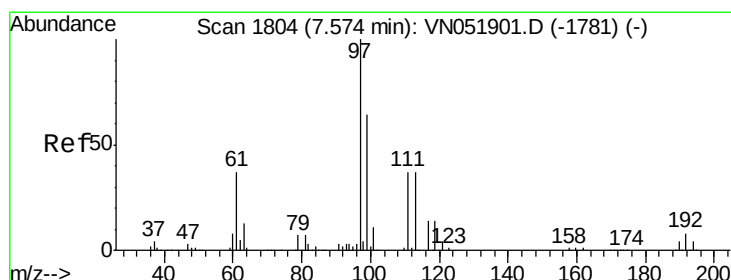
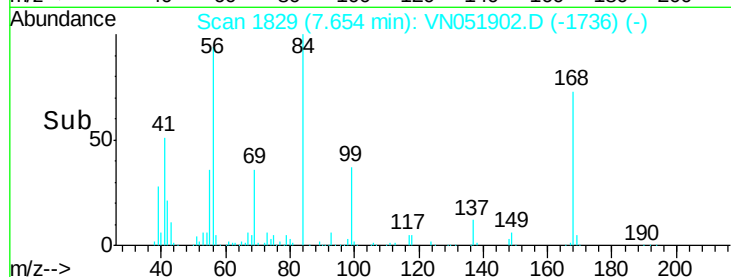
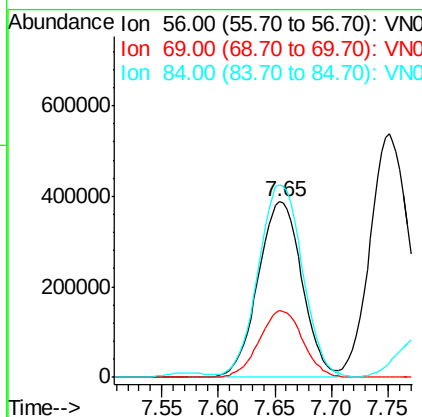
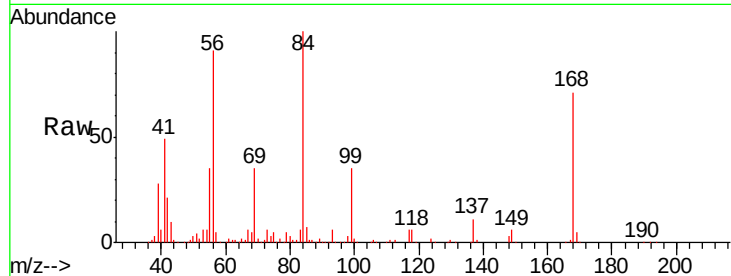
#31
Cyclohexane
Concen: 72.87 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 56 Resp: 1045925
Ion Ratio Lower Upper
56 100
69 38.0 31.2 46.8
84 107.9 86.6 130.0

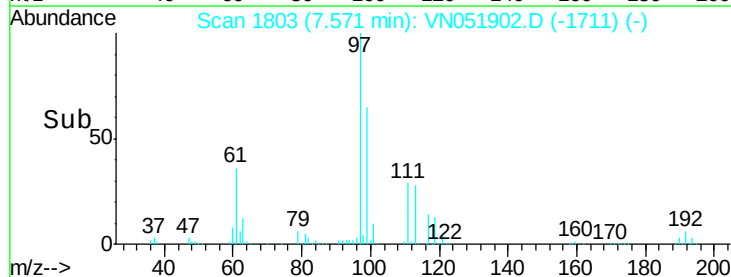
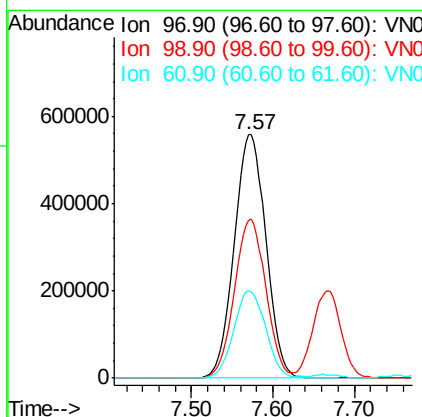
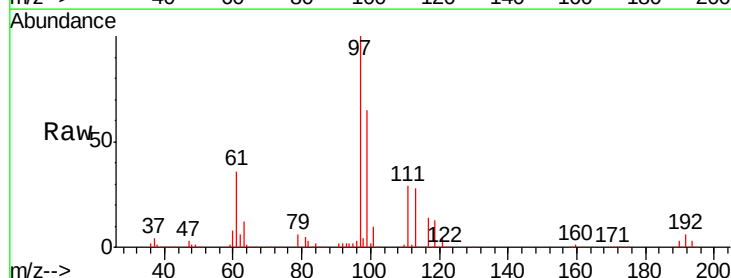
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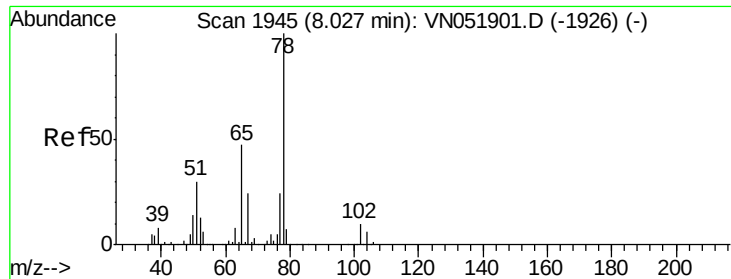
MMDadoda
10/19/2018 3:29:24 PM



#32
1,1,1-Trichloroethane
Concen: 102.26 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion: 97 Resp: 1506529
Ion Ratio Lower Upper
97 100
99 64.4 51.3 76.9
61 36.1 29.8 44.6





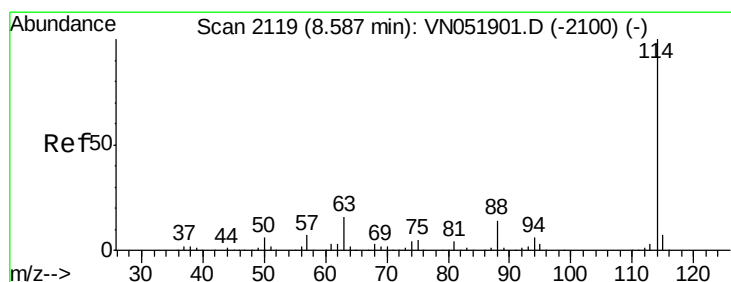
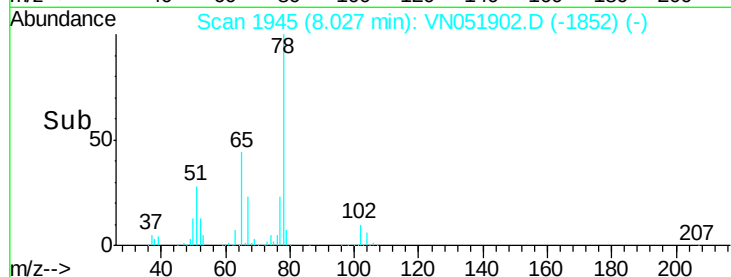
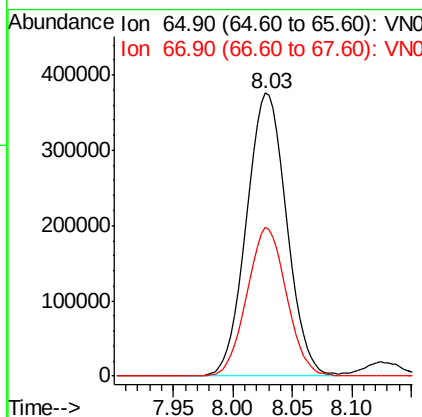
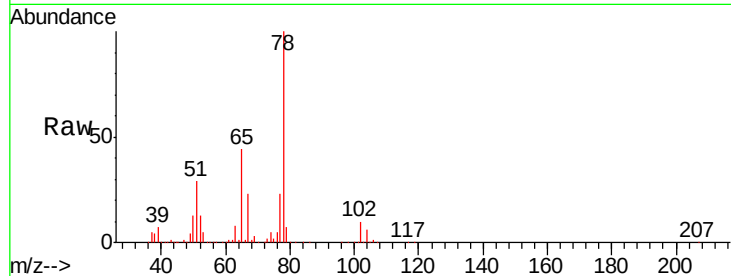
#33
 1,2-Dichloroethane-d4
 Concen: 102.26 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion: 65 Resp: 880514
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.0

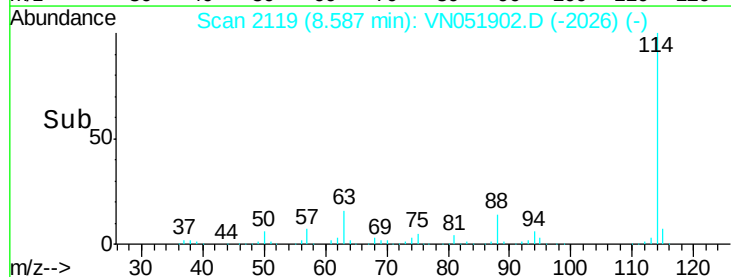
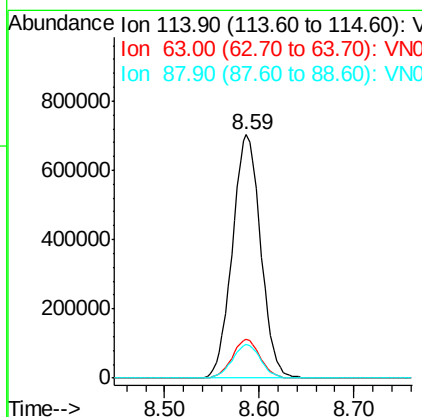
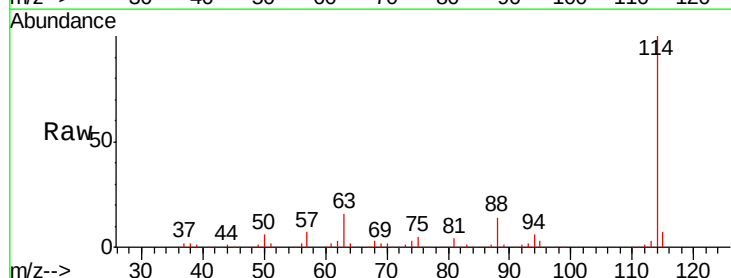
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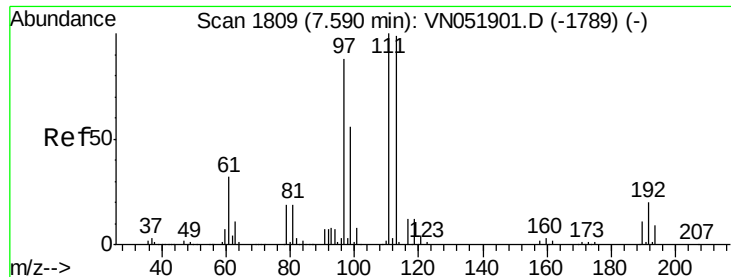
MMDadoda
 10/19/2018 3:29:24 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Tgt Ion: 114 Resp: 1459701
 Ion Ratio Lower Upper
 114 100
 63 15.9 0.0 31.8
 88 13.6 0.0 28.0





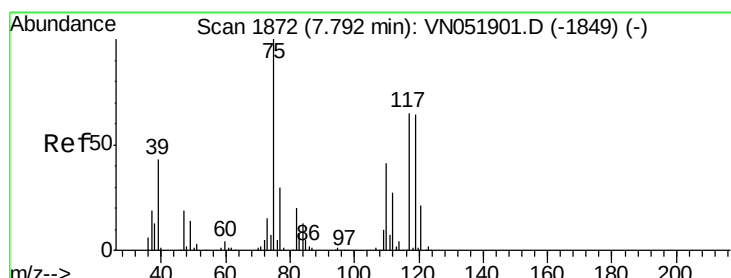
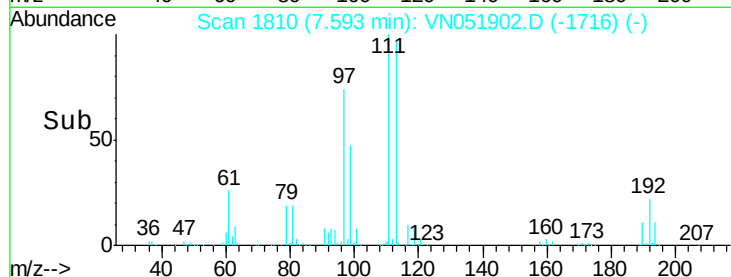
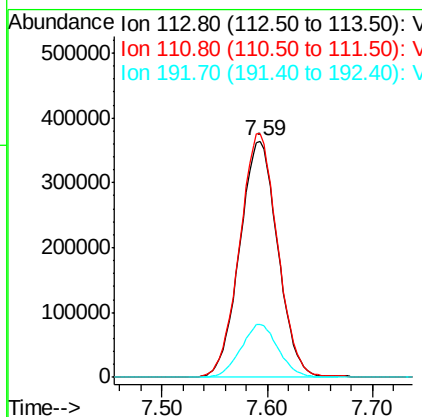
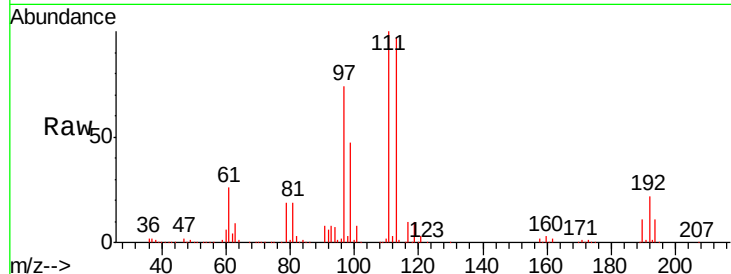
#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	914529		
111	103.0	82.6	123.8	
192	22.1	17.3	25.9	

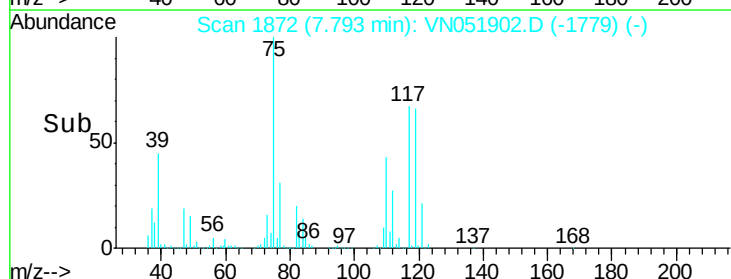
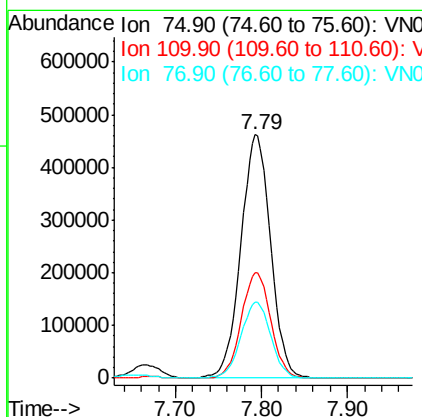
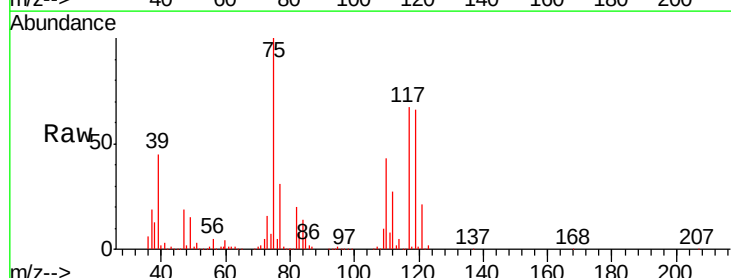
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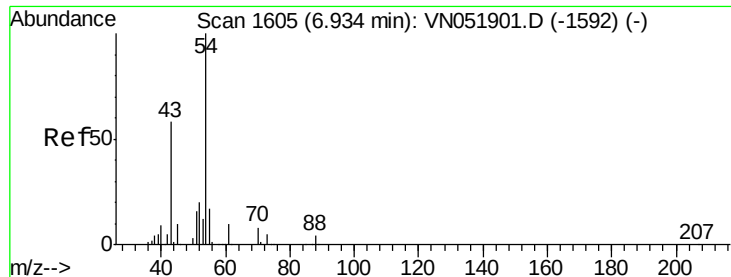
MMDadoda
10/19/2018 3:29:24 PM



#36
1,1-Dichloropropene
Concen: 97.64 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1106247		
110	42.9	21.0	63.0	
77	31.4	24.9	37.3	





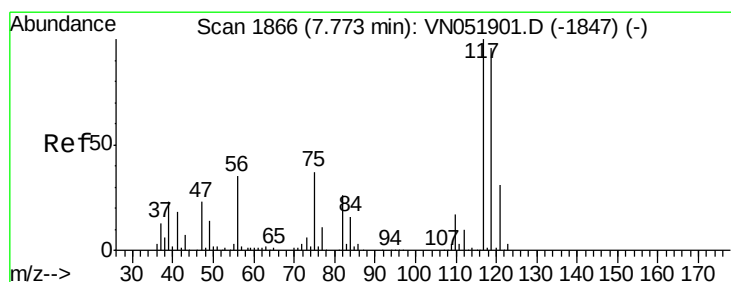
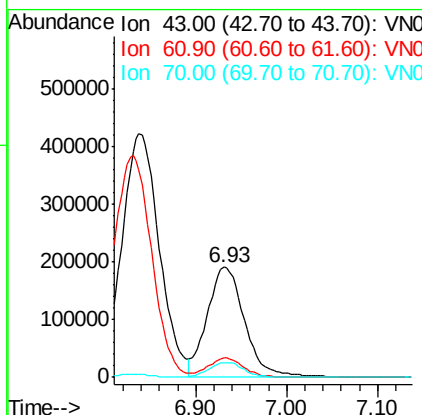
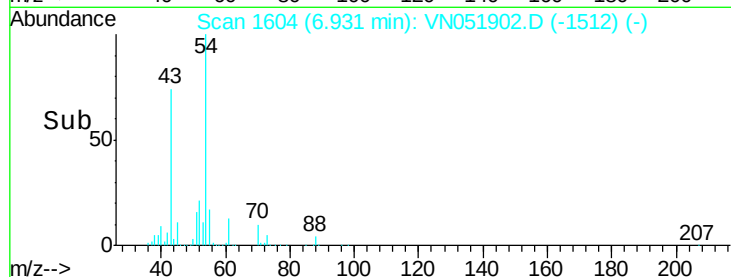
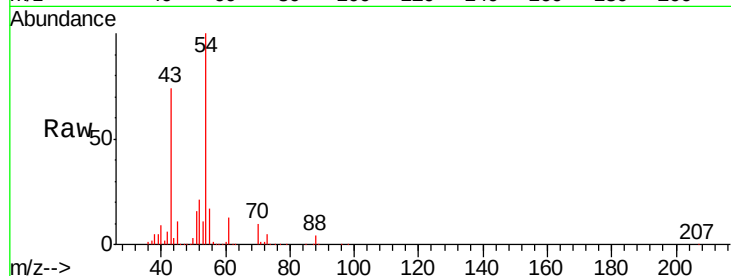
#37
Ethyl Acetate
Concen: 108.23 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.5	13.0	19.6
70	12.9	10.4	15.6

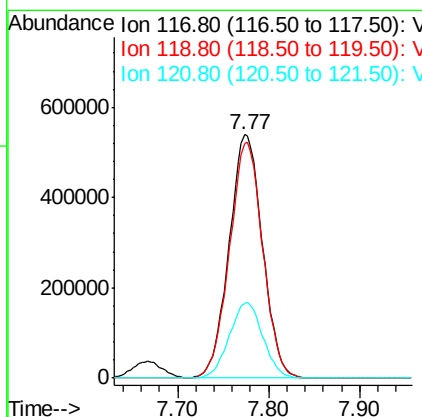
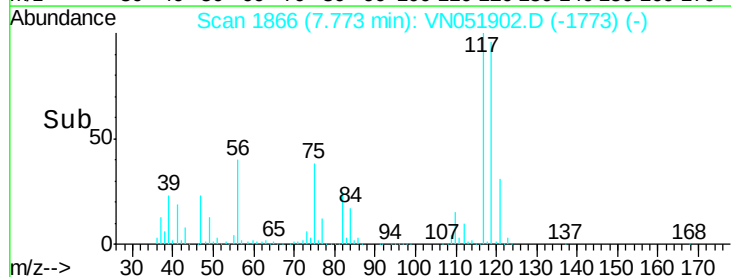
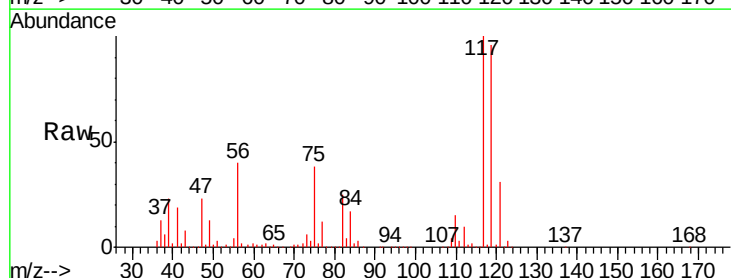
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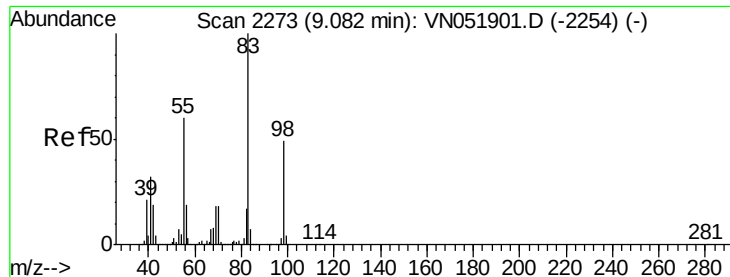
MMDadoda
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#38
Carbon Tetrachloride
Concen: 102.66 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.0	115.6
121	30.7	25.1	37.7





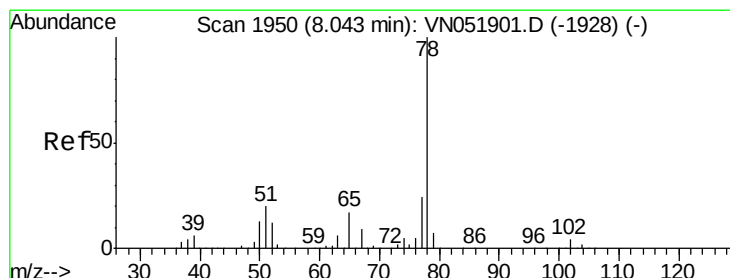
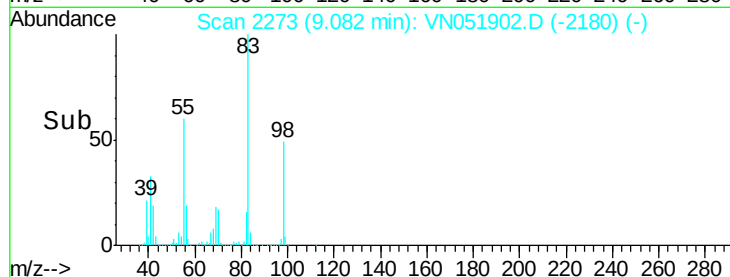
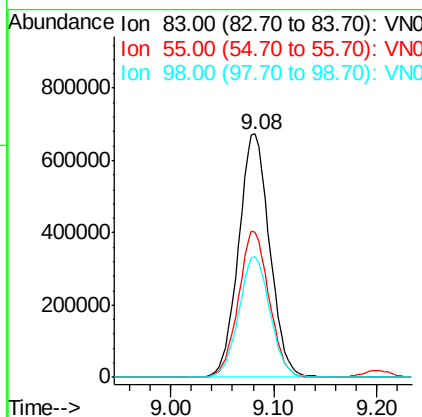
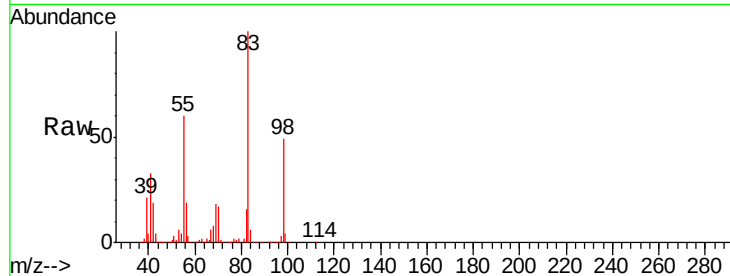
#39
Methylcyclohexane
Concen: 100.59 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
83	100		
55	59.8	47.8	71.8
98	49.4	39.0	58.4

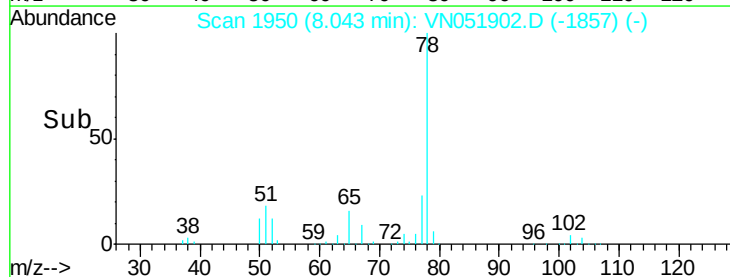
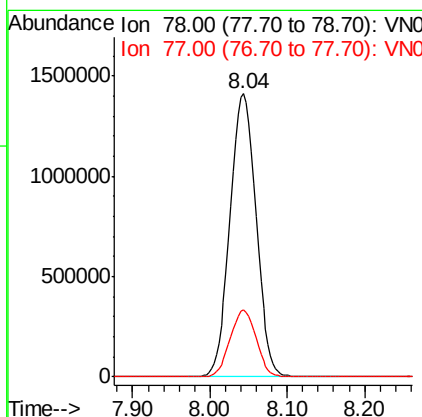
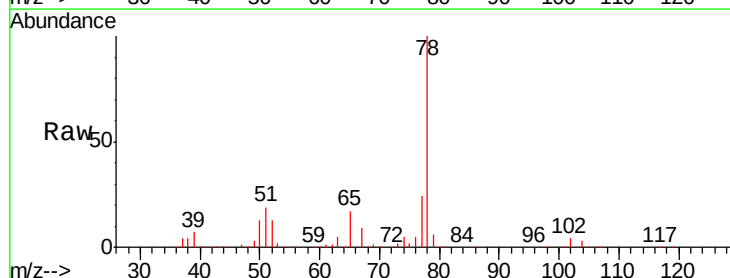
Manual Integrations
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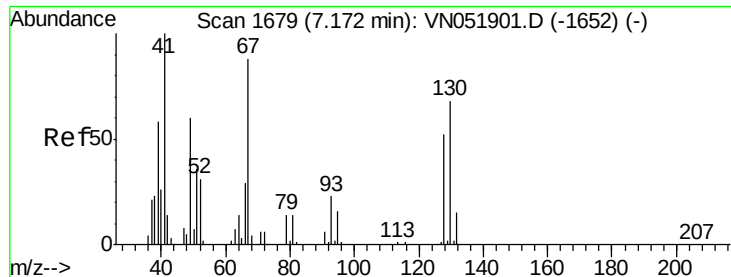
MMDadoda
10/19/2018 3:29:24 PM



#40
Benzene
Concen: 99.73 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.9	28.3





#41

Methacrylonitrile

Concen: 105.49 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 271320
Ion Ratio Lower Upper

41 100

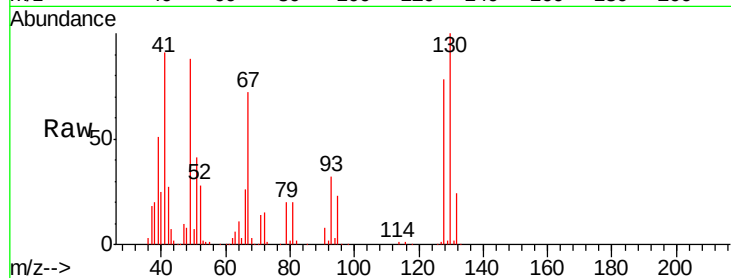
39 62.2 56.1 84.1

67 108.8 106.5 159.7

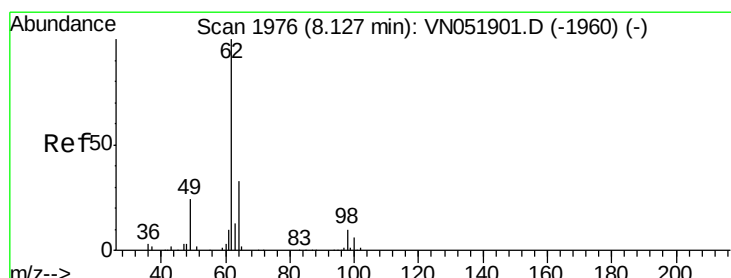
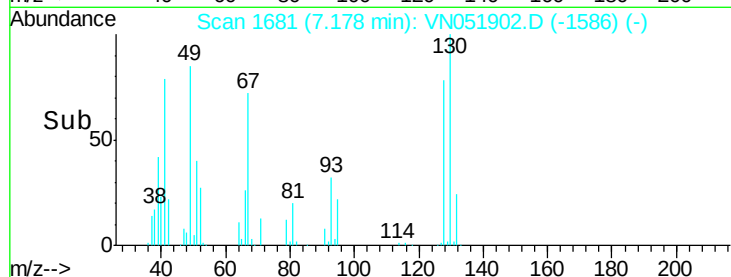
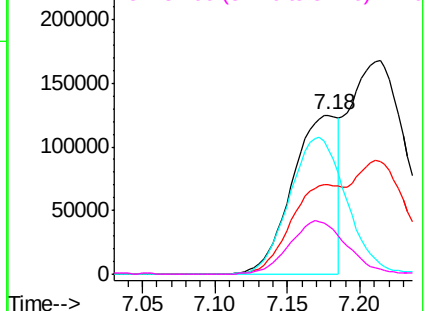
52 42.0 39.4 59.0

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Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0



#42

1,2-Dichloroethane

Concen: 100.30 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

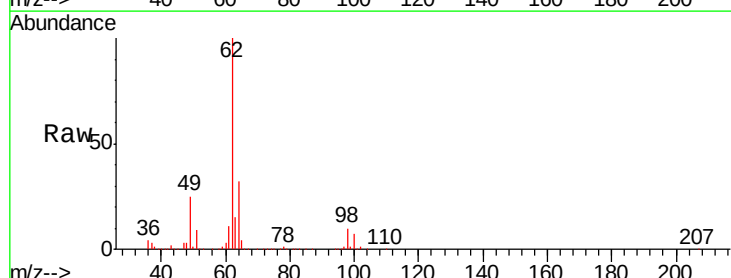
Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

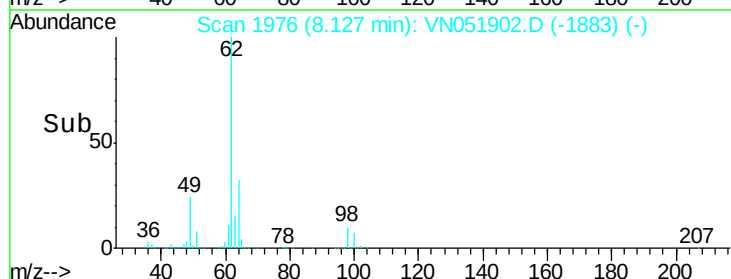
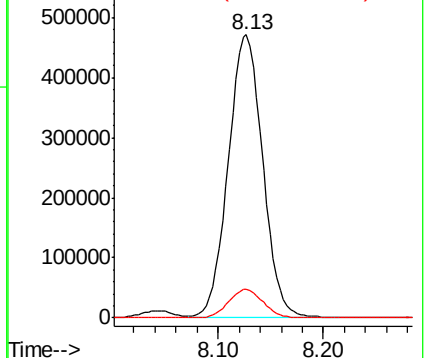
Tgt Ion: 62 Resp: 1063512
Ion Ratio Lower Upper

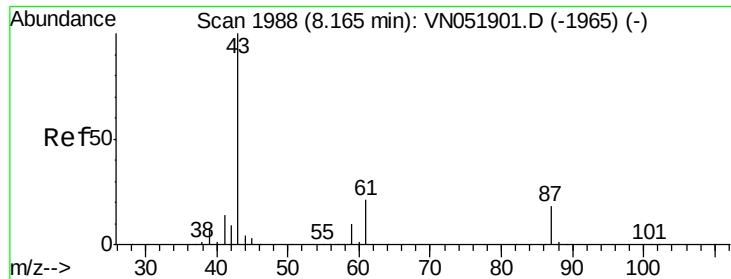
62 100

98 10.3 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 104.54 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 1051111

Ion Ratio Lower Upper

43 100

61 22.7 24.9 37.3#

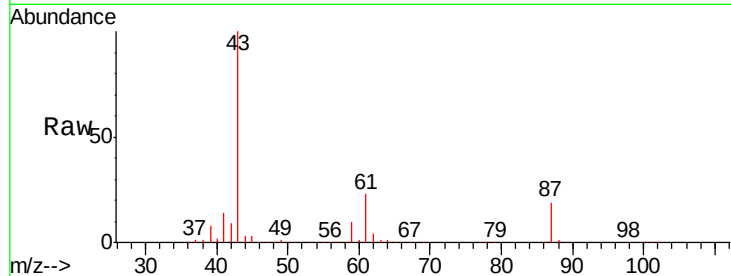
87 18.7 14.6 22.0

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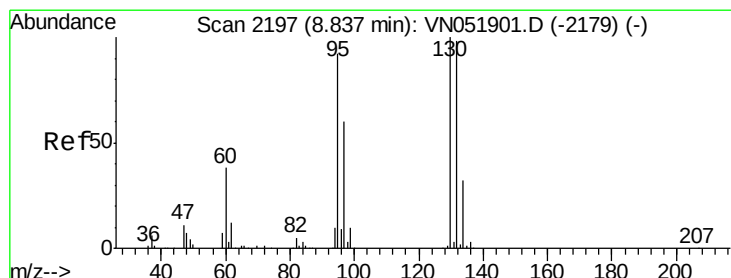
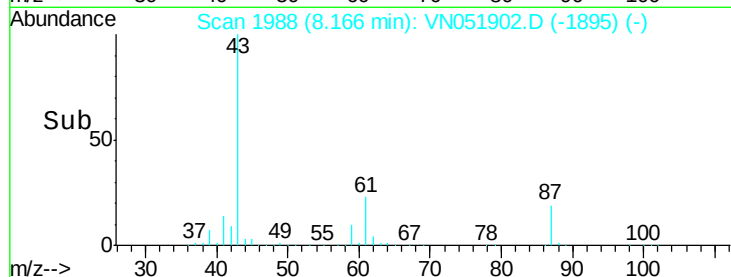
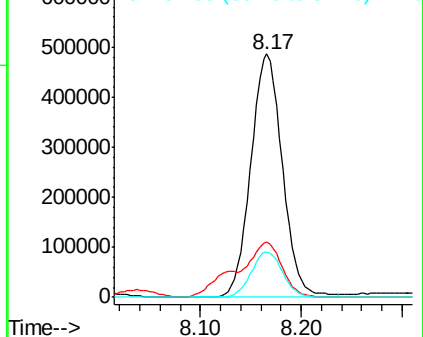
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#44

Trichloroethene

Concen: 102.45 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN051902.D

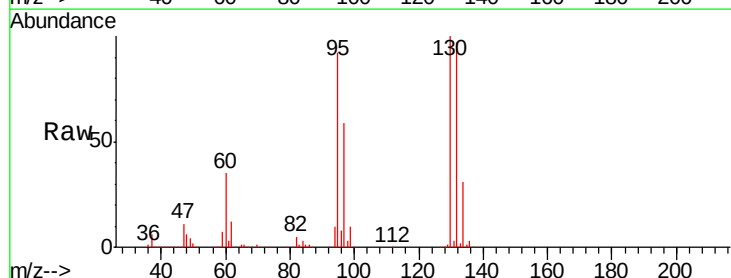
Acq: 17 Oct 2018 10:35

Tgt Ion: 130 Resp: 1064110

Ion Ratio Lower Upper

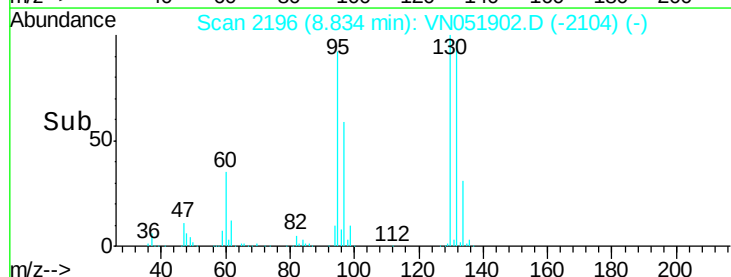
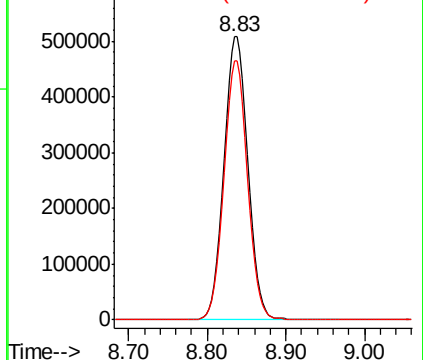
130 100

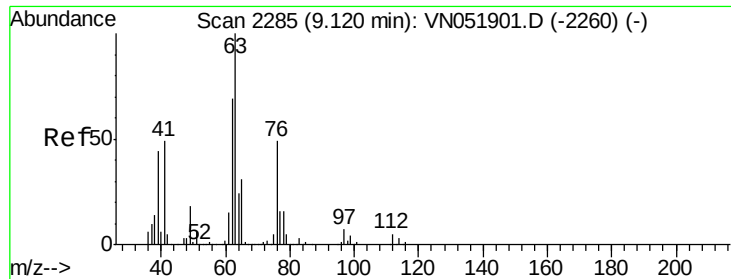
95 91.5 0.0 183.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





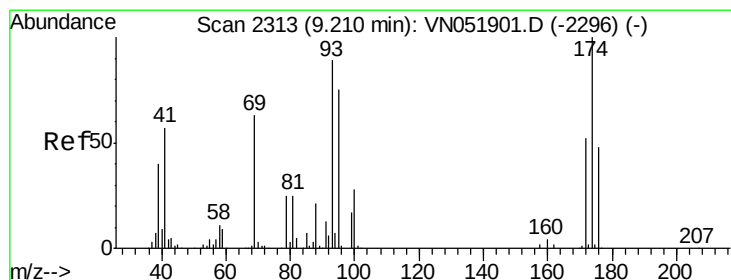
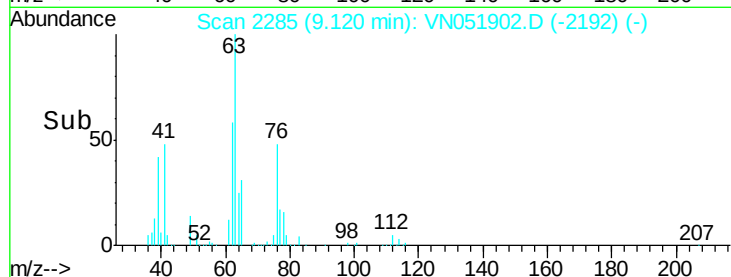
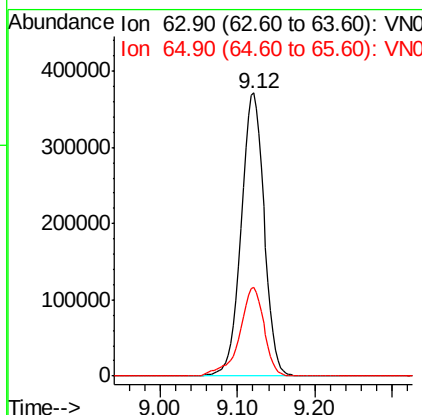
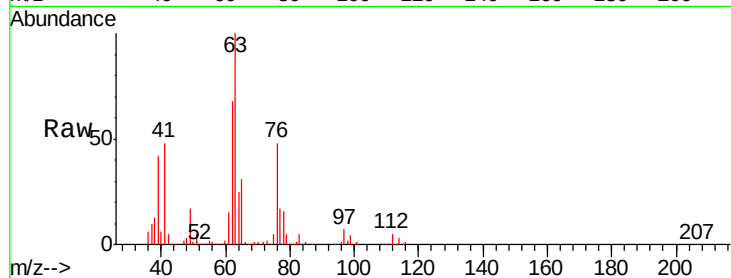
#45
 1,2-Dichloropropane
 Concen: 99.96 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion: 63 Resp: 764978
 Ion Ratio Lower Upper
 63 100
 65 31.4 24.9 37.3

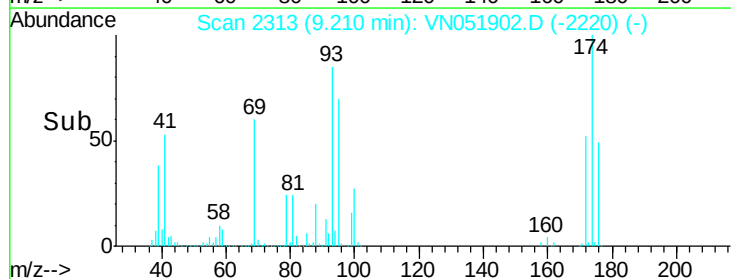
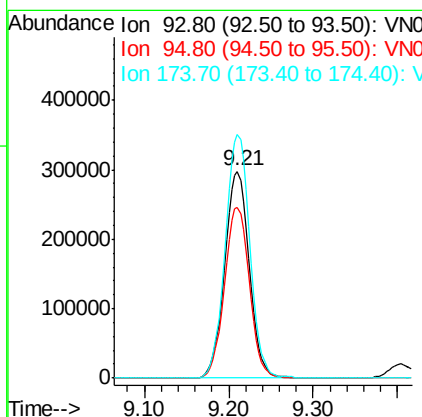
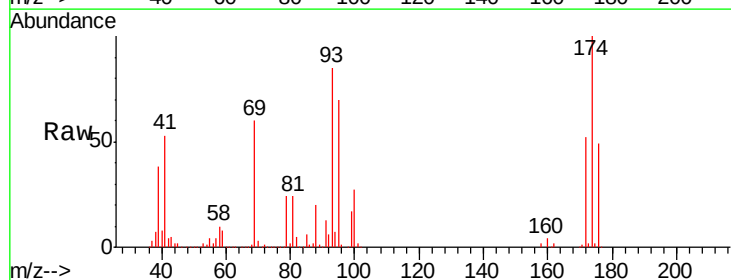
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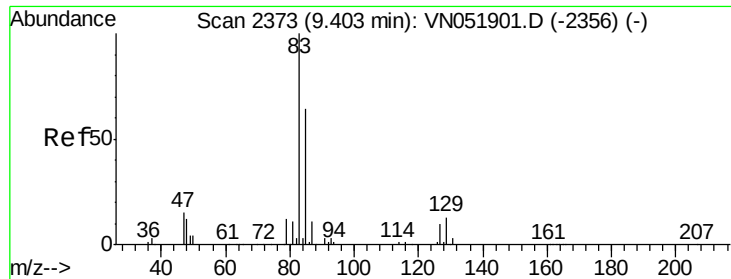
MMDadoda
 10/19/2018 3:29:24 PM



#46
 Dibromomethane
 Concen: 103.37 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Tgt Ion: 93 Resp: 602995
 Ion Ratio Lower Upper
 93 100
 95 83.5 67.8 101.6
 174 118.1 91.9 137.9





#47

Bromodichloromethane

Concen: 104.76 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 1224797

Ion Ratio Lower Upper

83 100

85 64.5 51.4 77.2

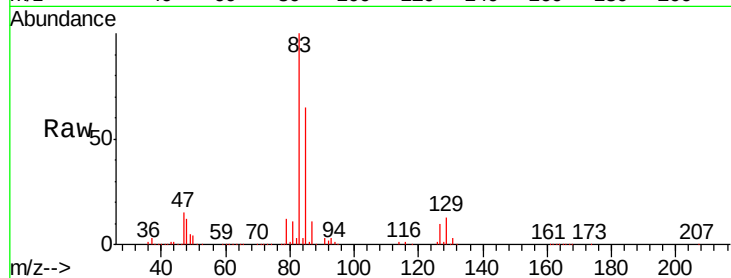
127 9.8 7.9 11.9

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Abundance Ion 82.90 (82.60 to 83.60): VN051902.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN051902.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN051902.D (-2280) (-)

9.40

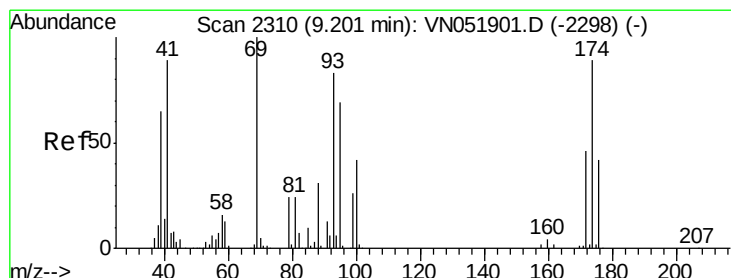
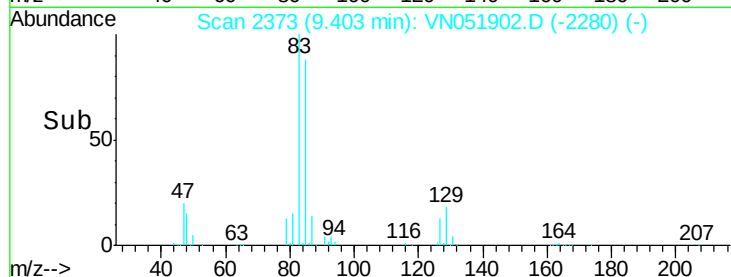
600000

400000

200000

0

Time--> 9.30 9.35 9.40 9.45 9.50



#48

Methyl methacrylate

Concen: 106.61 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

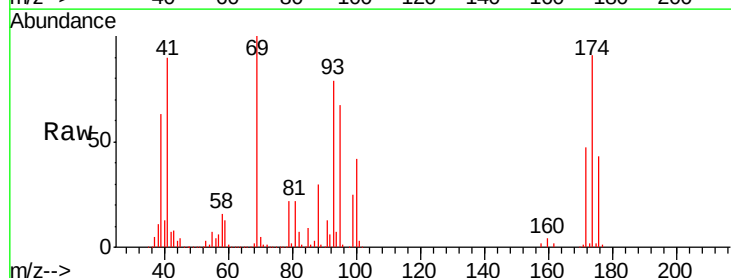
Tgt Ion: 41 Resp: 487587

Ion Ratio Lower Upper

41 100

69 113.6 90.2 135.2

39 72.7 59.7 89.5



Abundance Ion 41.00 (40.70 to 41.70): VN051902.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN051902.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN051902.D (-2217) (-)

9.20

400000

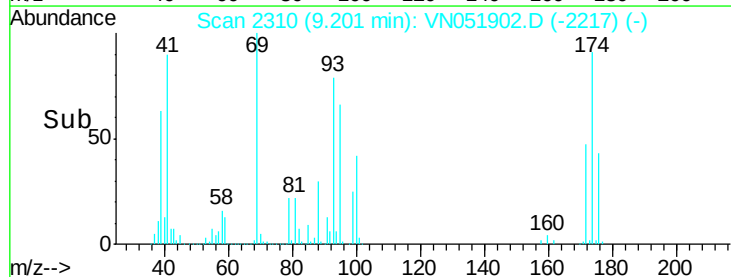
300000

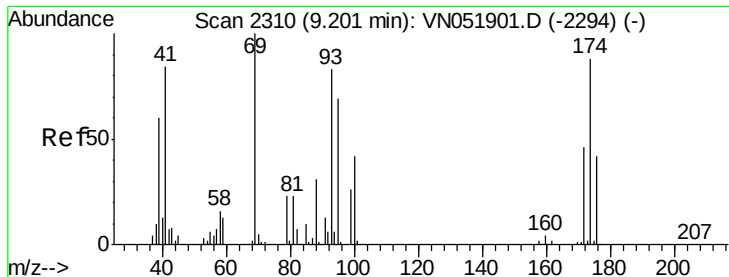
200000

100000

0

Time--> 9.15 9.20 9.25





#49

1,4-Dioxane

Concen: 2125.99 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

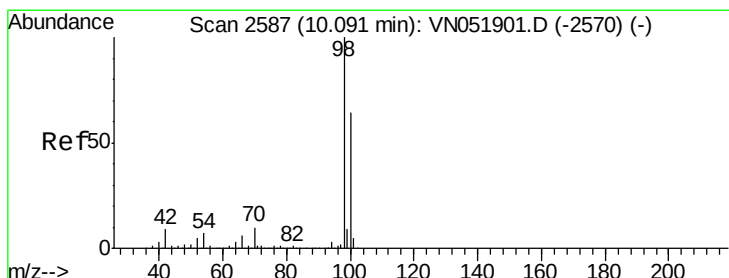
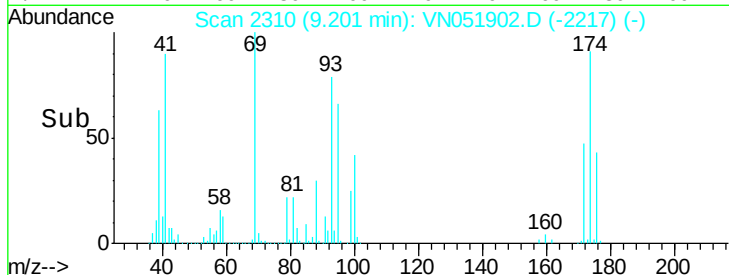
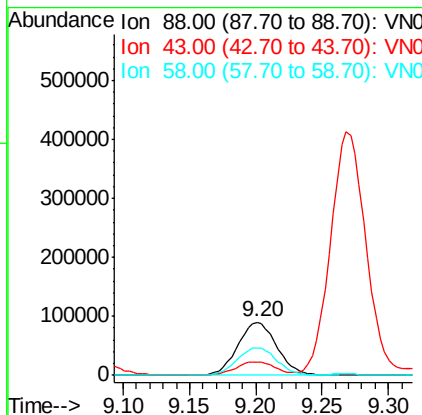
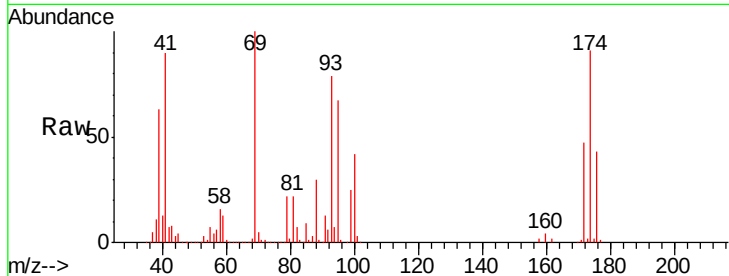
ClientSampleId :

VSTDIC100

Tgt Ion	Ratio	Lower	Upper
88	100		
43	24.5	19.7	29.5
58	52.7	42.6	64.0

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#50

Toluene-d8

Concen: 2125.99 ug/l

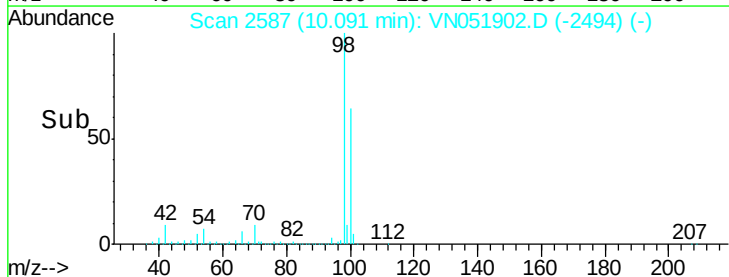
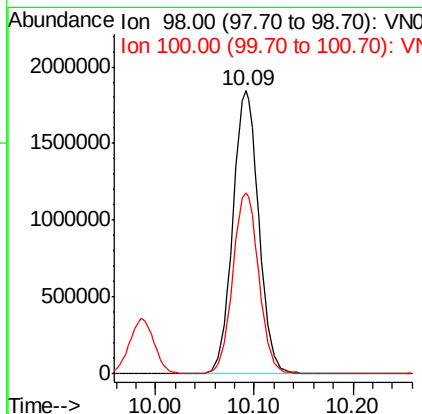
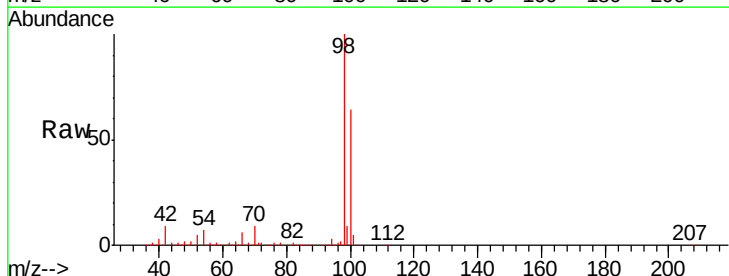
RT: 10.09 min Scan# 2587

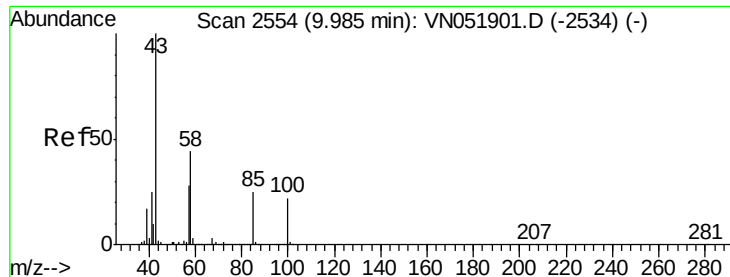
Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.0	76.4





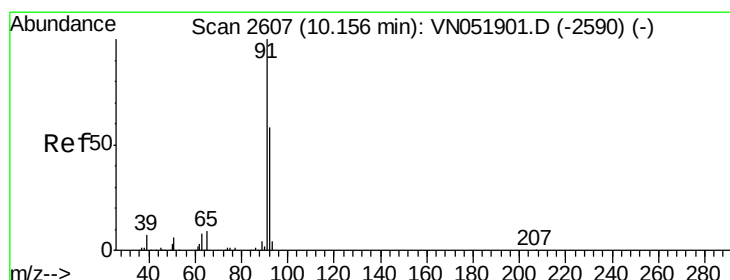
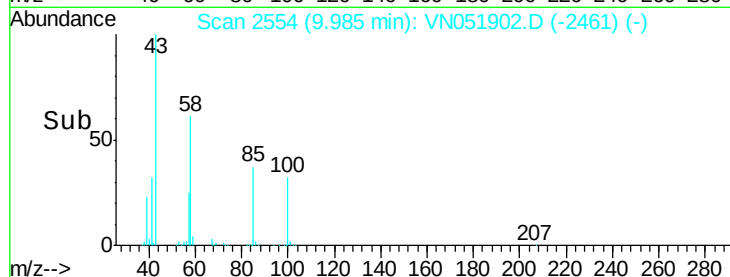
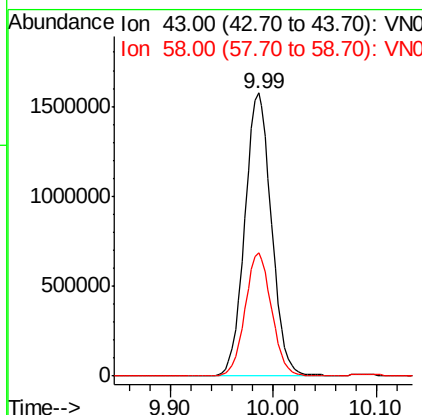
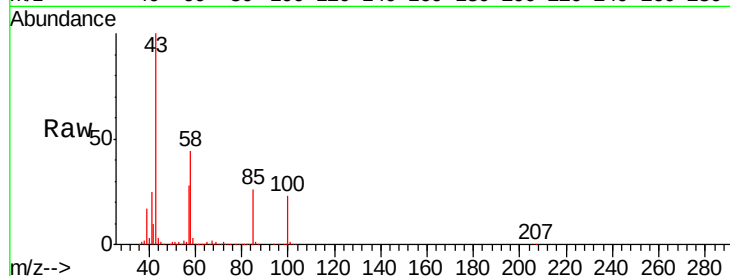
#51
4-Methyl-2-Pentanone
Concen: 534.60 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 43 Resp: 2819531
Ion Ratio Lower Upper
43 100
58 43.3 34.6 52.0

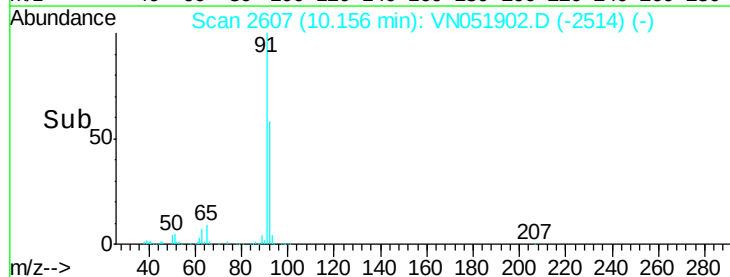
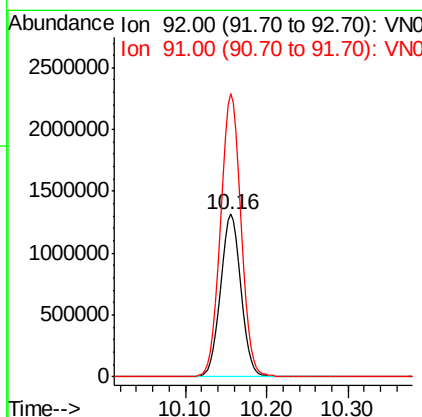
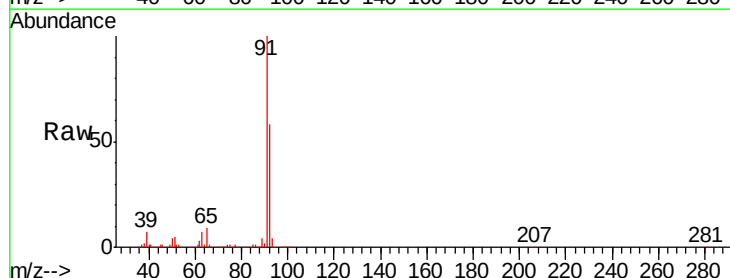
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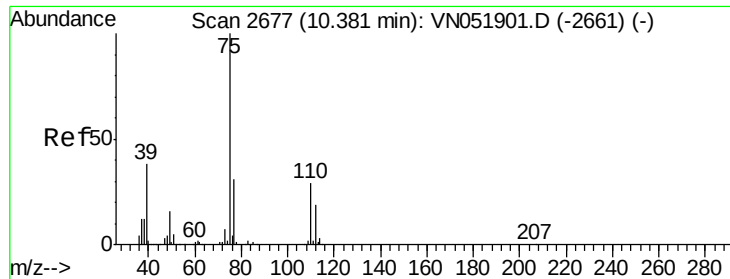
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10/19/2018 3:29:24 PM



#52
Toluene
Concen: 105.56 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion: 92 Resp: 2337089
Ion Ratio Lower Upper
92 100
91 175.1 139.8 209.6





#53

t-1,3-Dichloropropene

Concen: 111.06 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 1230529

Ion Ratio Lower Upper

75 100

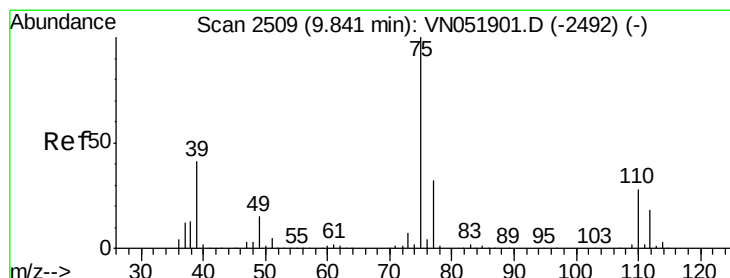
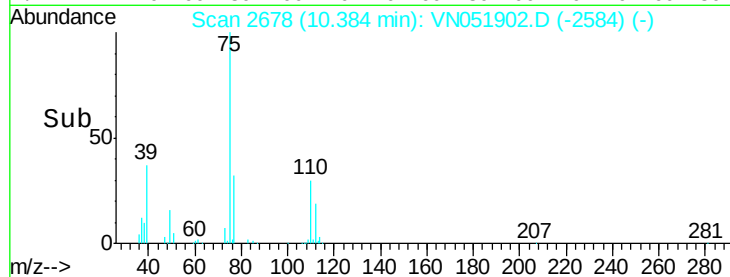
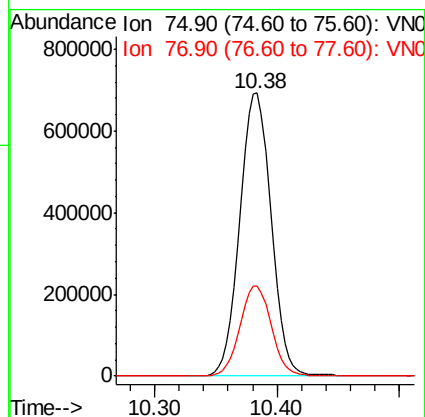
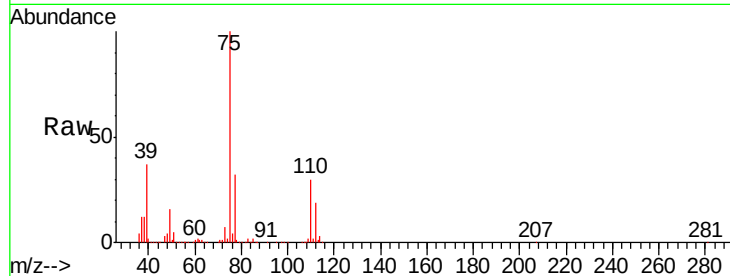
77 31.7 25.4 38.0

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#54

cis-1,3-Dichloropropene

Concen: 108.19 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

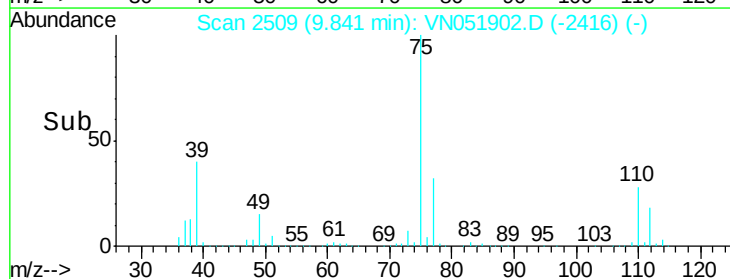
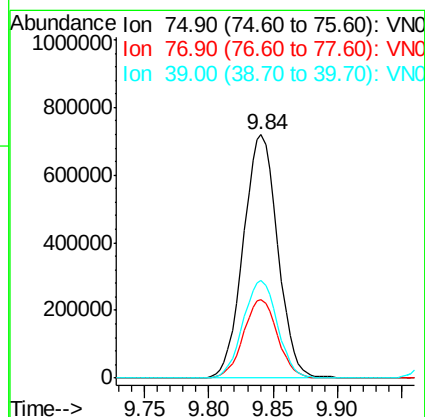
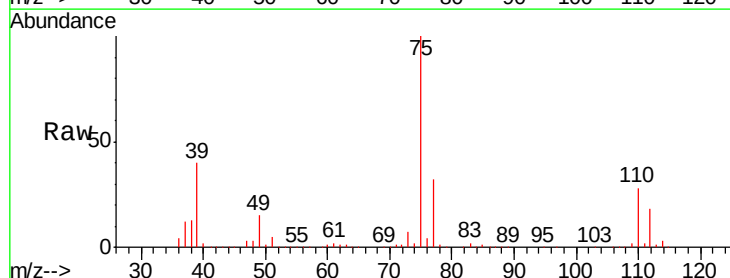
Tgt Ion: 75 Resp: 1336627

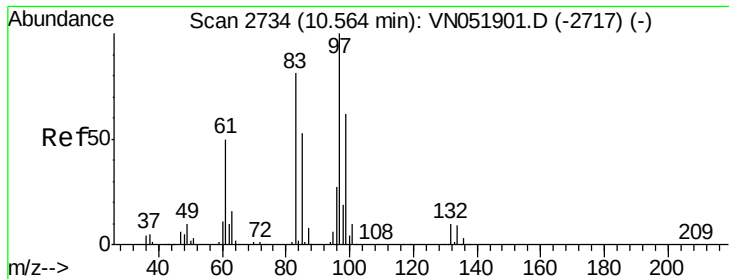
Ion Ratio Lower Upper

75 100

77 32.3 25.3 37.9

39 39.9 32.8 49.2





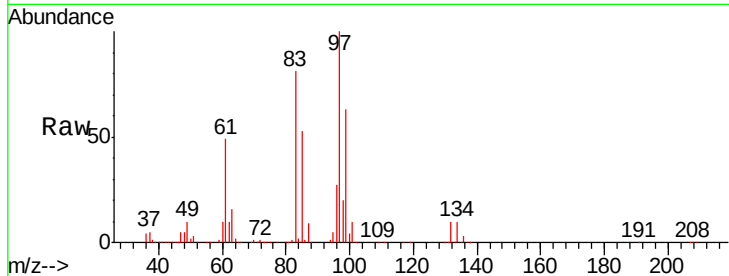
#55
 1,1,2-Trichloroethane
 Concen: 106.02 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
97	100		
83	81.2	64.6	96.8
85	52.5	42.3	63.5
99	63.2	49.7	74.5

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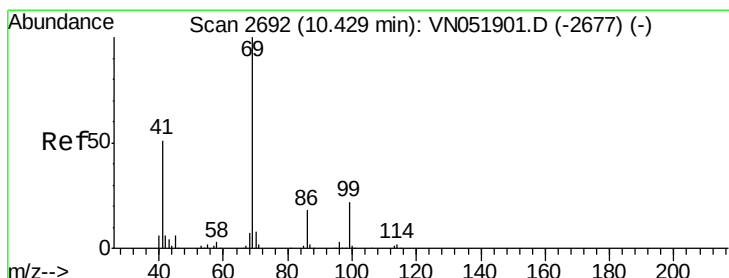
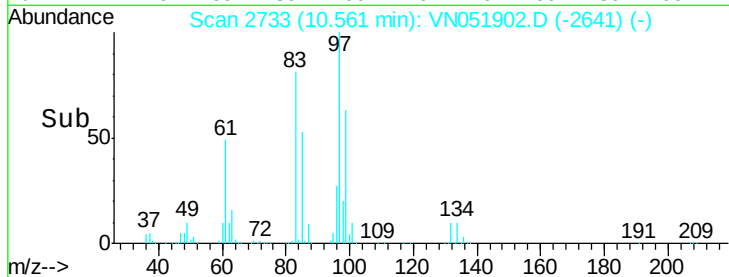
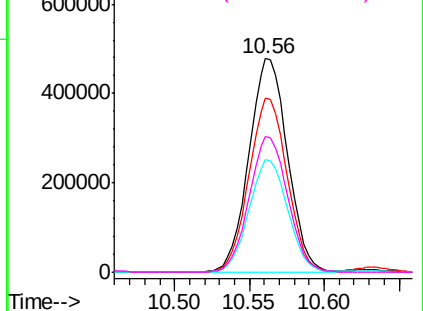


Abundance Ion 96.90 (96.60 to 97.60): VN051902.D (-2641) (-)

Ion 82.90 (82.60 to 83.60): VN051902.D (-2641) (-)

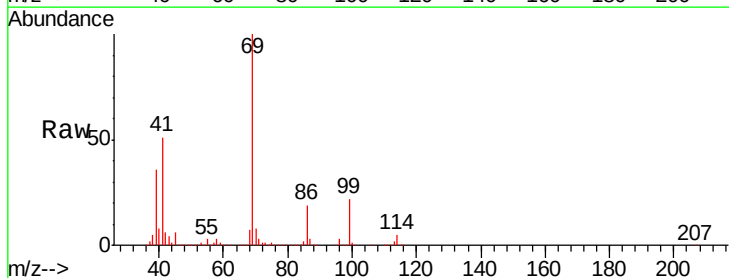
Ion 84.90 (84.60 to 85.60): VN051902.D (-2641) (-)

Ion 98.90 (98.60 to 99.60): VN051902.D (-2641) (-)



#56
 Ethyl methacrylate
 Concen: 110.80 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

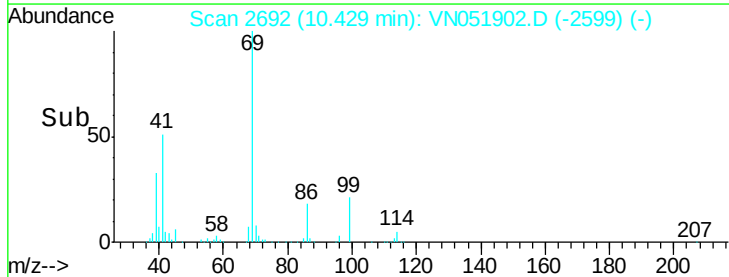
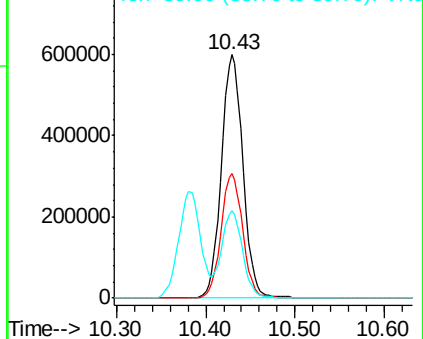
Tgt Ion	Ratio	Lower	Upper
69	100		
41	50.7	40.6	61.0
39	34.8	29.4	44.0

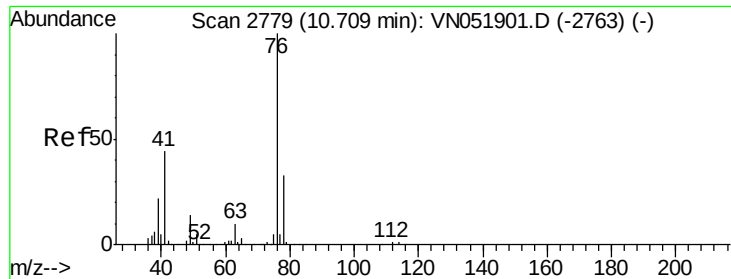


Abundance Ion 69.00 (68.70 to 69.70): VN051902.D (-2599) (-)

Ion 41.00 (40.70 to 41.70): VN051902.D (-2599) (-)

Ion 39.00 (38.70 to 39.70): VN051902.D (-2599) (-)





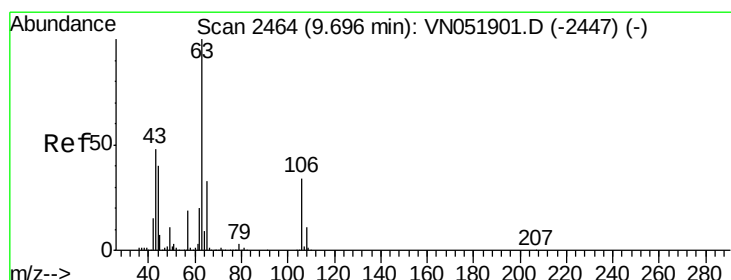
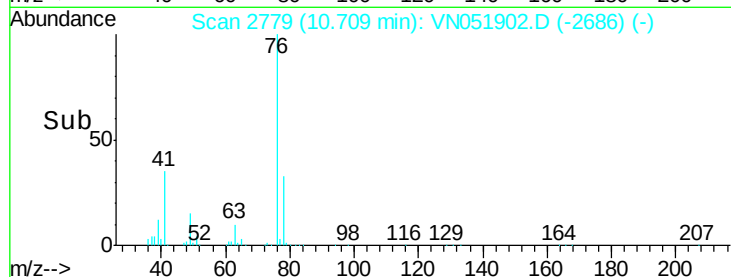
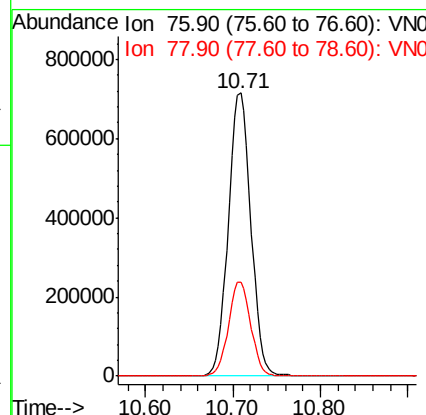
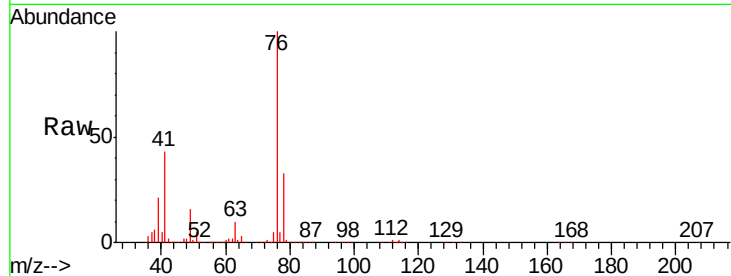
#57
 1,3-Dichloropropane
 Concen: 103.59 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion: 76 Resp: 1279535
 Ion Ratio Lower Upper
 76 100
 78 32.9 25.8 38.6

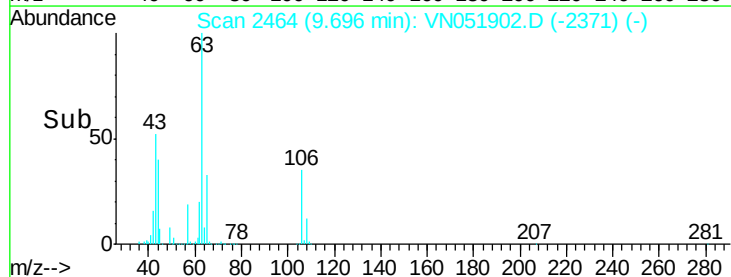
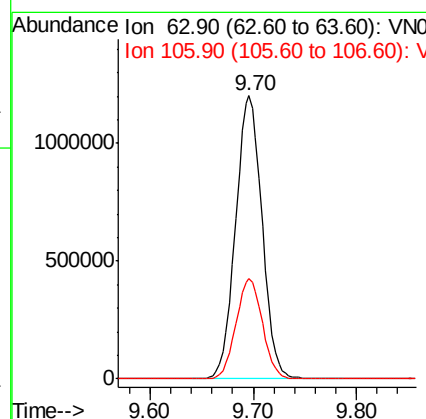
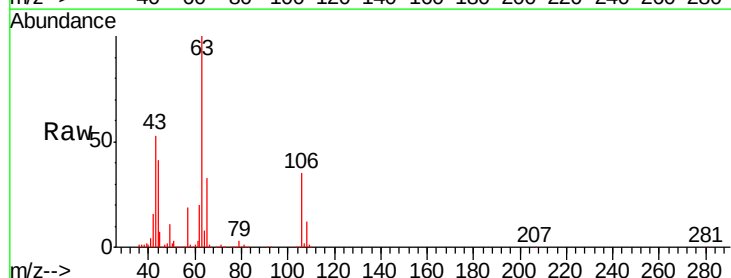
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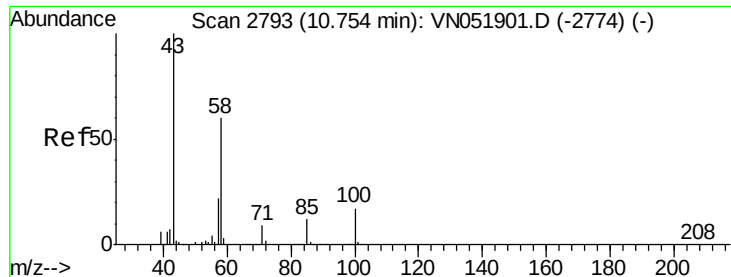
MMDadoda
 10/19/2018 3:29:24 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 559.73 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Tgt Ion: 63 Resp: 2150743
 Ion Ratio Lower Upper
 63 100
 106 35.4 27.5 41.3





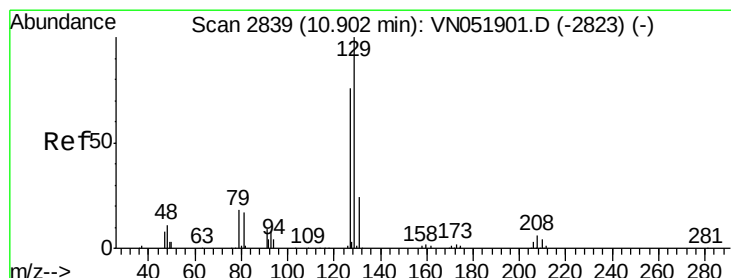
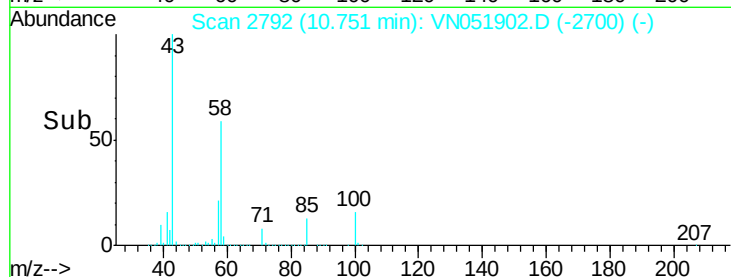
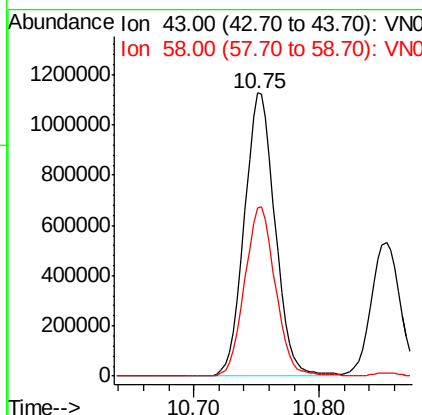
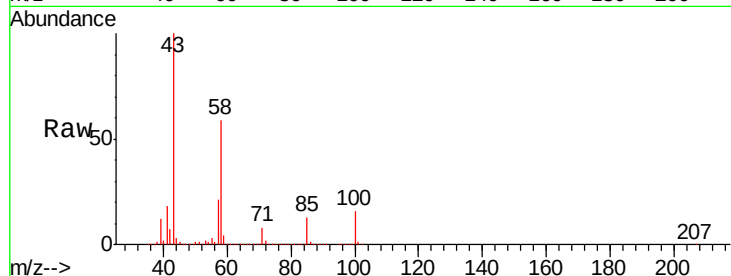
#59
2-Hexanone
Concen: 544.84 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 43 Resp: 1926771
Ion Ratio Lower Upper
43 100
58 59.8 29.8 89.5

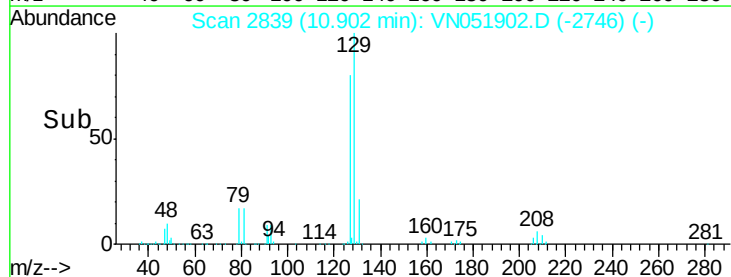
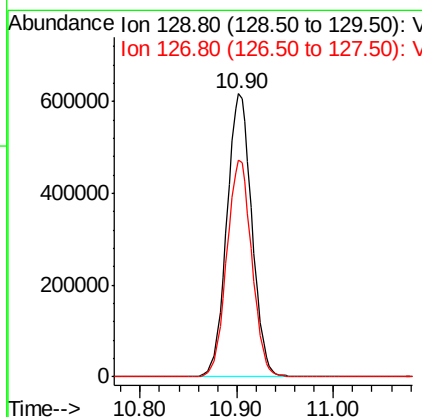
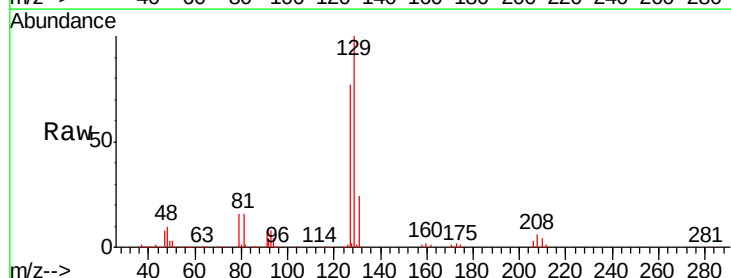
Manual Integrations
APPROVED

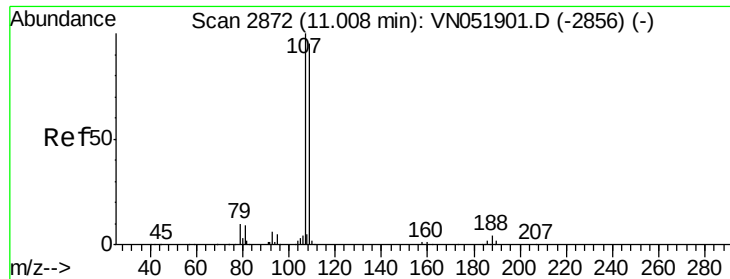
MMDadoda
10/19/2018 3:29:24 PM



#60
Dibromochloromethane
Concen: 116.58 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion: 129 Resp: 1109900
Ion Ratio Lower Upper
129 100
127 76.6 38.3 114.8





#61

1,2-Dibromoethane

Concen: 108.91 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 107 Resp: 926728

Ion Ratio Lower Upper

107 100

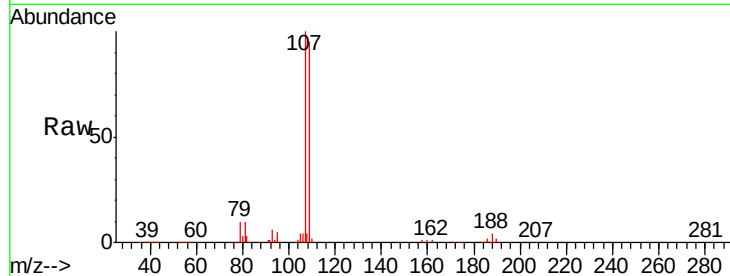
109 95.4 75.0 112.6

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:24 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

500000

400000

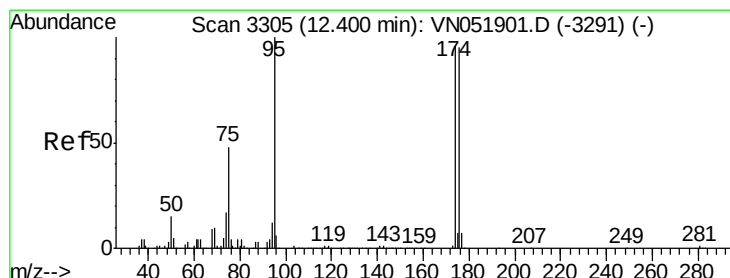
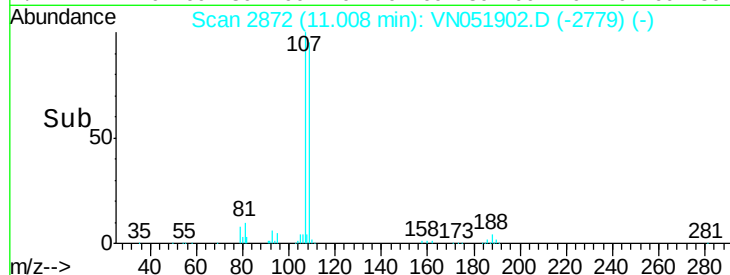
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 108.91 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

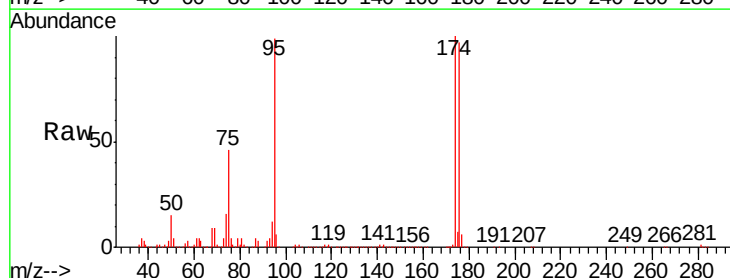
Tgt Ion: 95 Resp: 1198981

Ion Ratio Lower Upper

95 100

174 101.8 0.0 195.0

176 99.2 0.0 191.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

1000000

800000

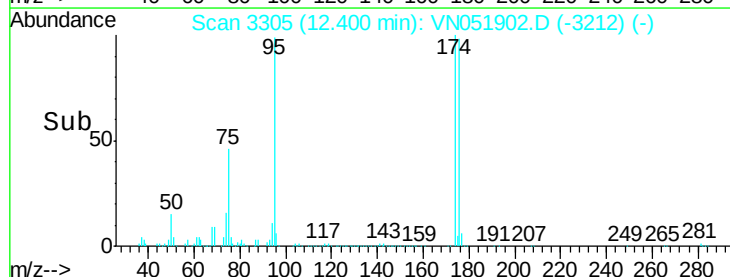
600000

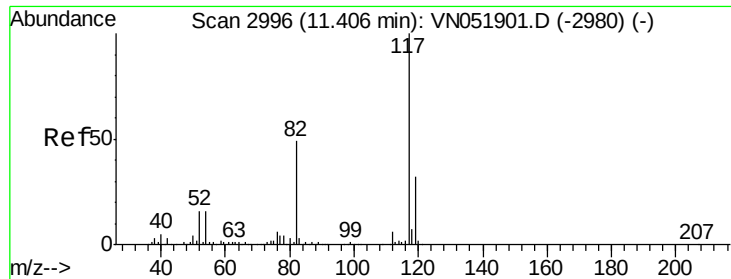
400000

200000

0

Time-->





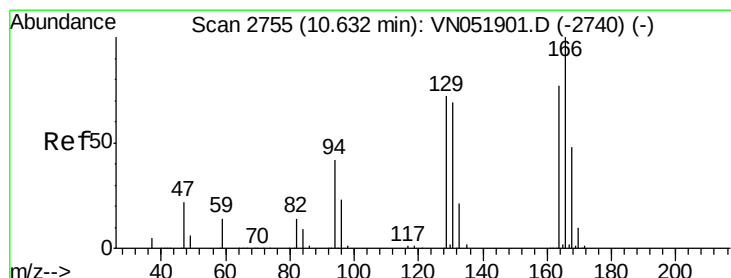
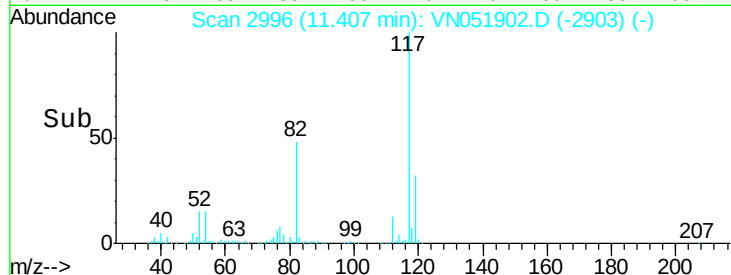
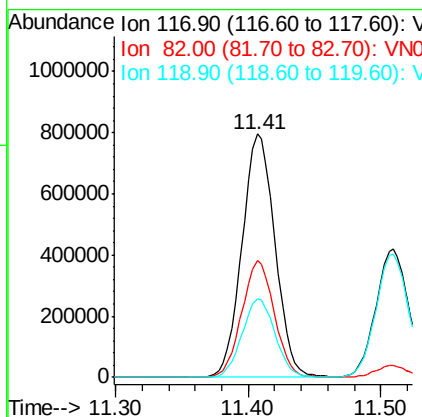
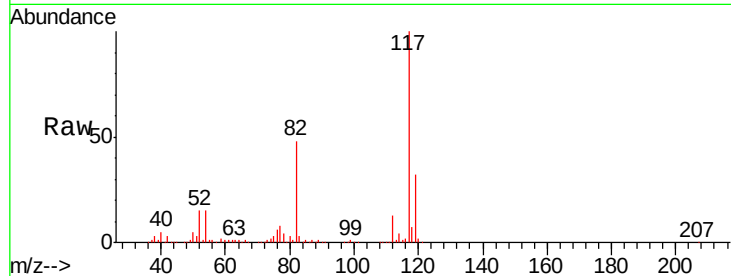
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:117 Resp: 1377403
Ion Ratio Lower Upper
117 100
82 47.7 38.9 58.3
119 32.4 25.9 38.9

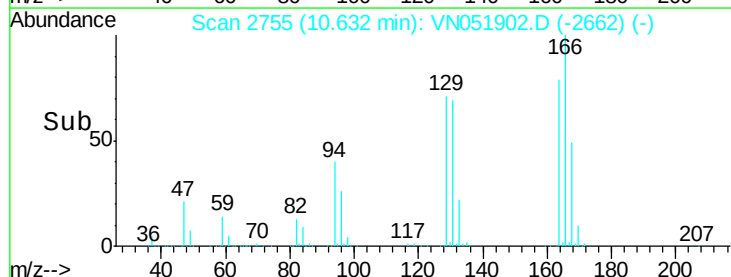
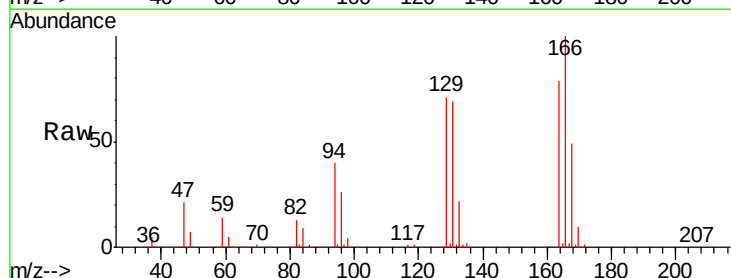
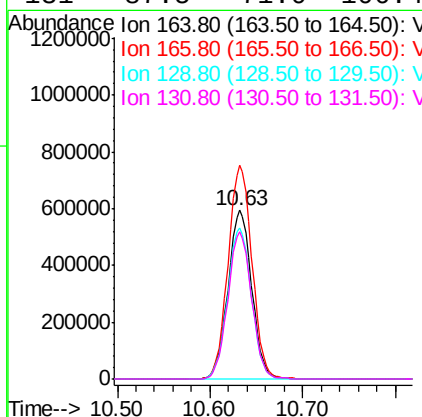
Manual Integrations
APPROVED

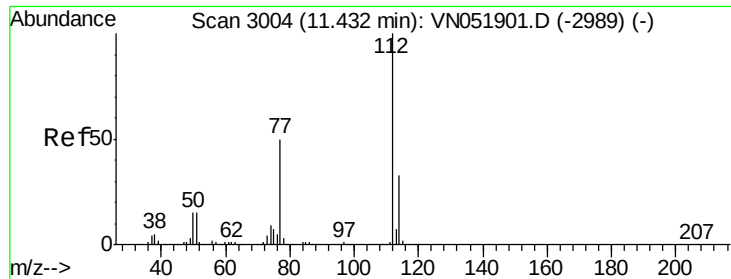
MMDadoda
10/19/2018 3:29:24 PM



#64
Tetrachloroethene
Concen: 95.28 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion:164 Resp: 1053450
Ion Ratio Lower Upper
164 100
166 126.8 103.4 155.0
129 89.8 73.9 110.9
131 87.5 71.0 106.4





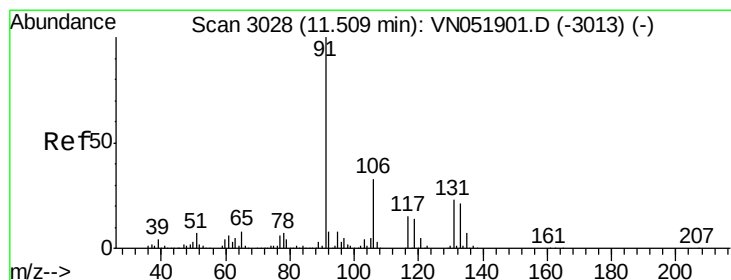
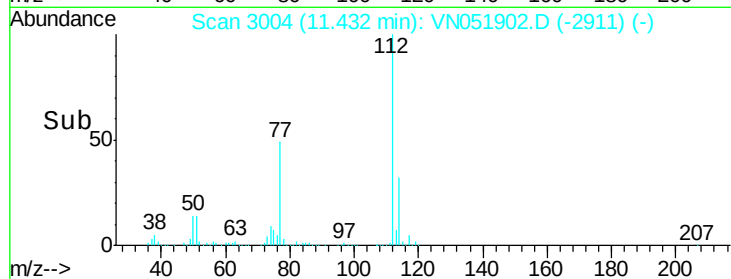
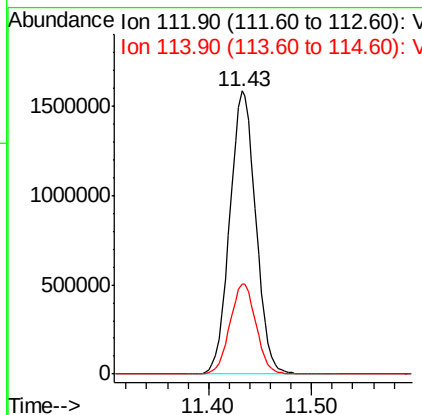
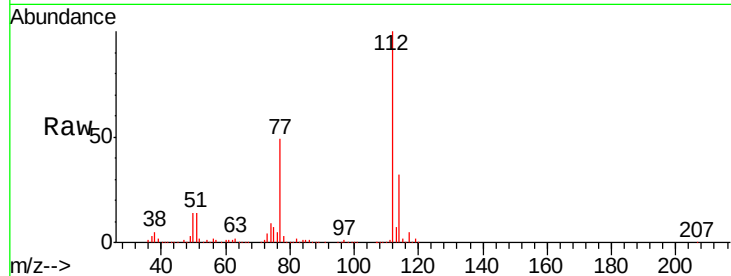
#65
Chlorobenzene
Concen: 101.02 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:112 Resp: 2781788
Ion Ratio Lower Upper
112 100
114 32.0 26.4 39.6

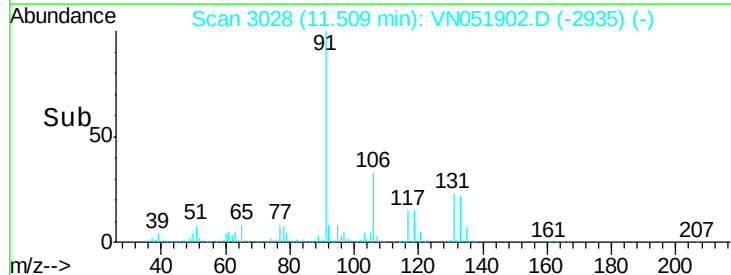
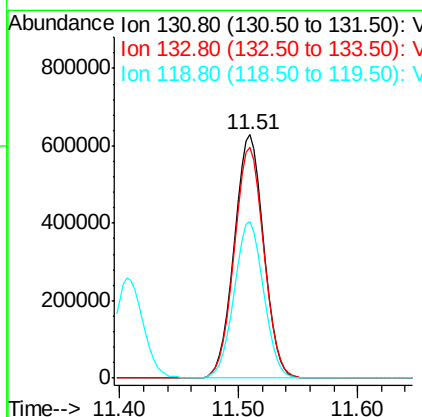
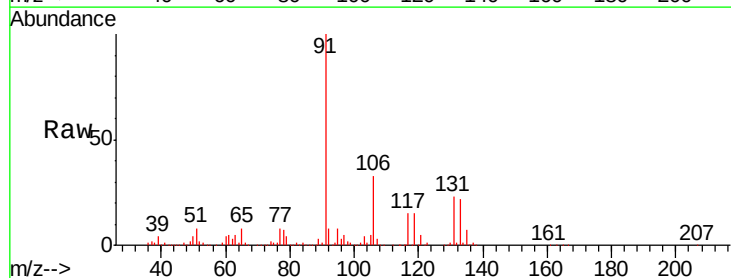
Manual Integrations
APPROVED

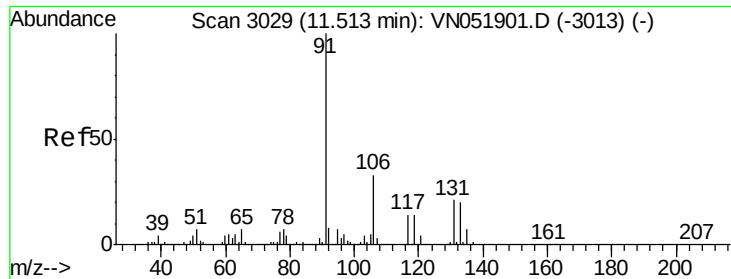
MMDadoda
10/19/2018 3:29:24 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 105.06 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion:131 Resp: 1076933
Ion Ratio Lower Upper
131 100
133 95.6 47.5 142.6
119 64.4 32.1 96.5





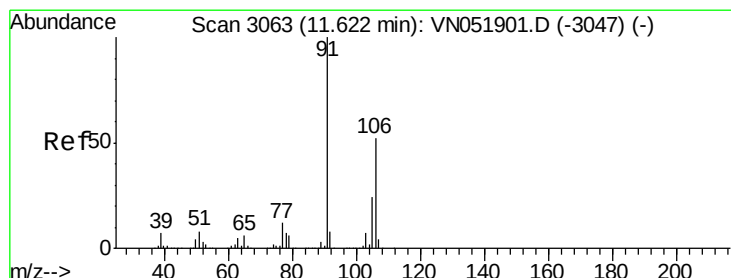
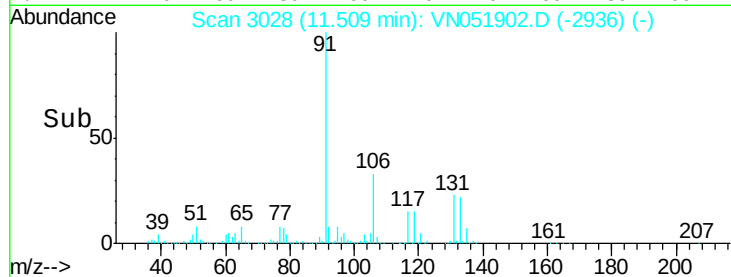
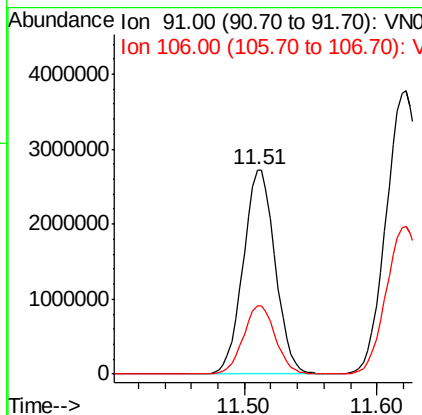
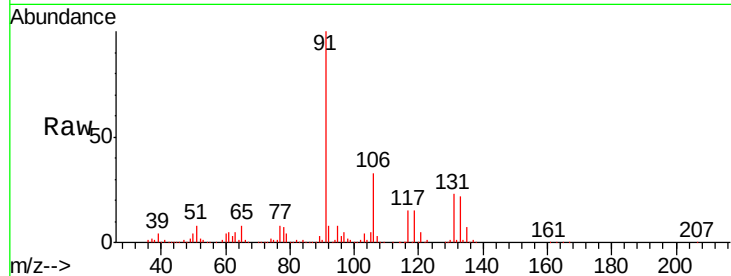
#67
Ethyl Benzene
Concen: 100.80 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 91 Resp: 4547492
Ion Ratio Lower Upper
91 100
106 33.4 26.6 39.8

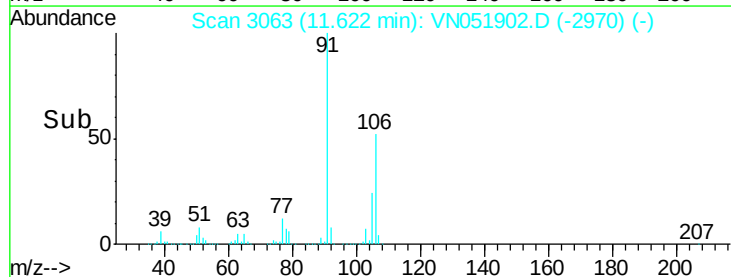
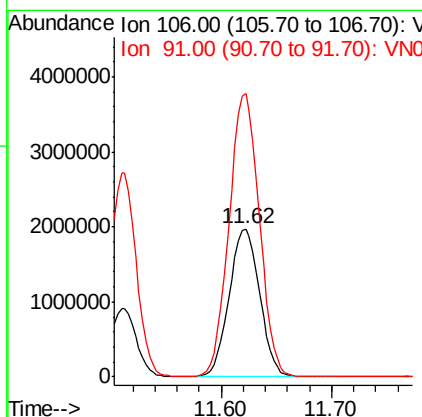
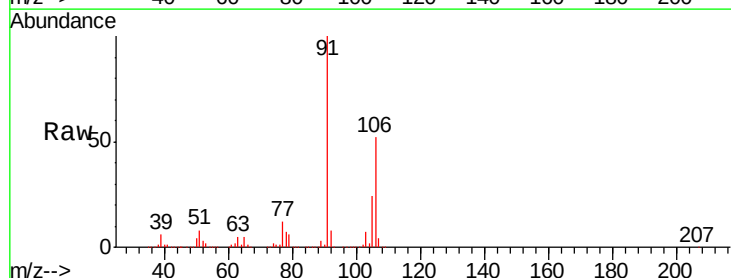
Manual Integrations
APPROVED

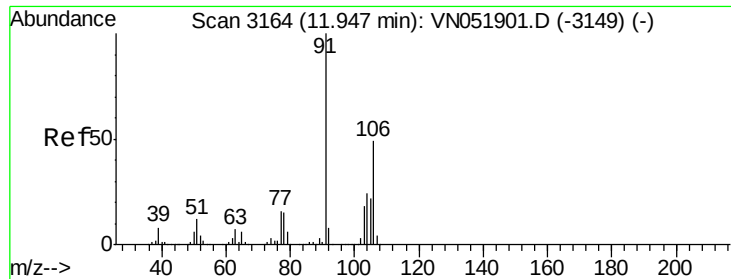
MMDadoda
10/19/2018 3:29:24 PM



#68
m/p-Xylenes
Concen: 208.31 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion: 106 Resp: 3773436
Ion Ratio Lower Upper
106 100
91 190.7 153.6 230.4





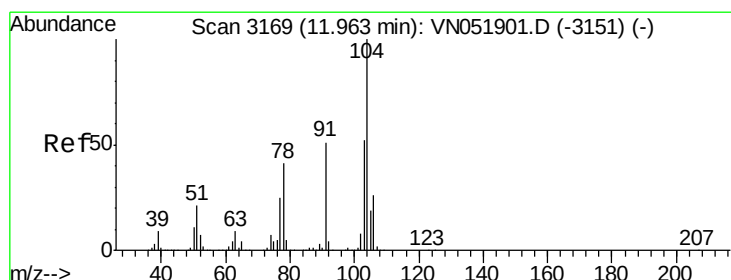
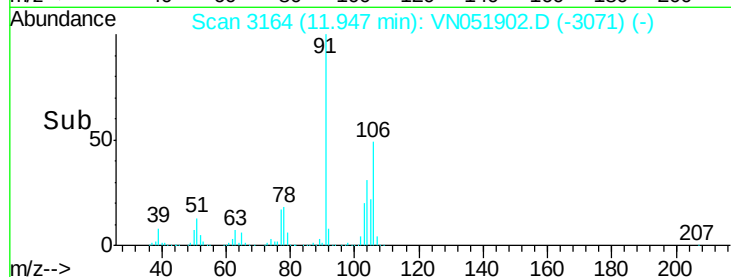
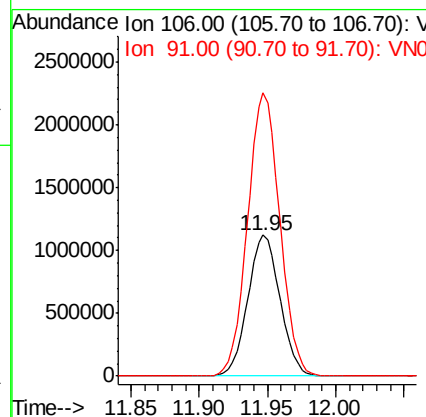
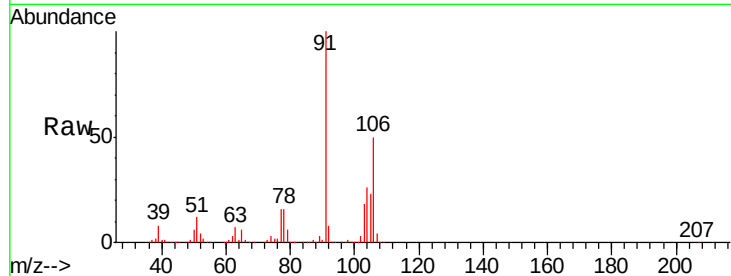
#69
o-Xylene
Concen: 104.33 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:106 Resp: 1841813
Ion Ratio Lower Upper
106 100
91 201.1 100.7 302.1

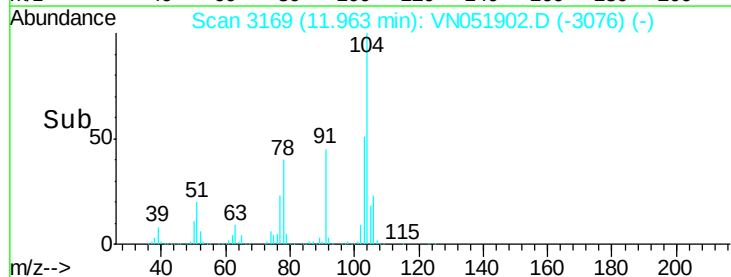
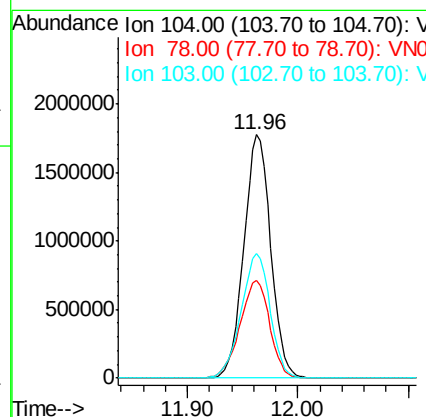
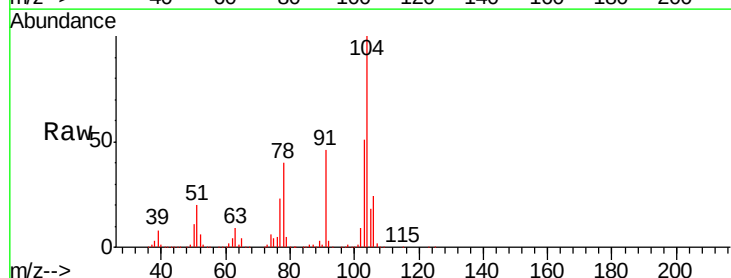
Manual Integrations
APPROVED

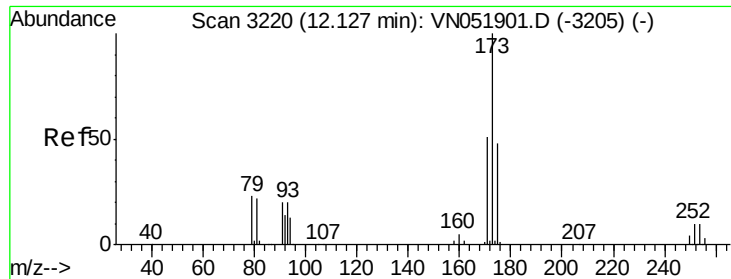
MMDadoda
10/19/2018 3:29:24 PM



#70
Styrene
Concen: 109.94 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion:104 Resp: 2985385
Ion Ratio Lower Upper
104 100
78 44.5 36.6 55.0
103 55.6 44.6 67.0





#71

Bromoform

Concen: 124.40 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:173 Resp: 794173

Ion Ratio Lower Upper

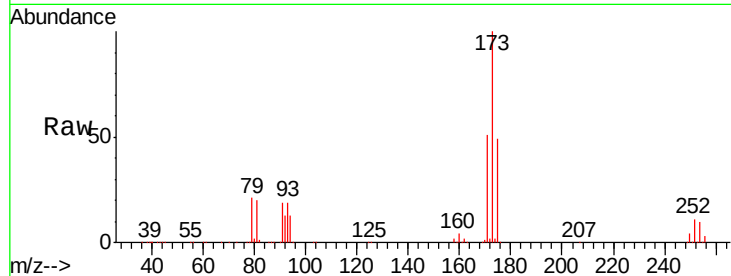
173 100

175 49.3 24.0 72.0

254 0.1 0.2 0.2#

Manual Integrations
APPROVED

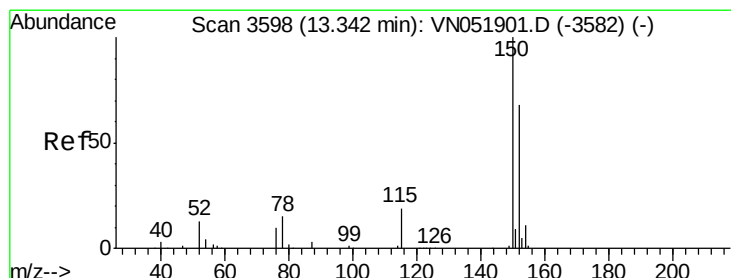
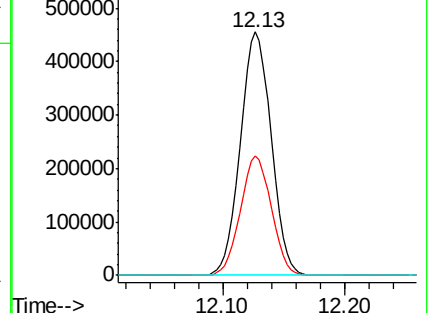
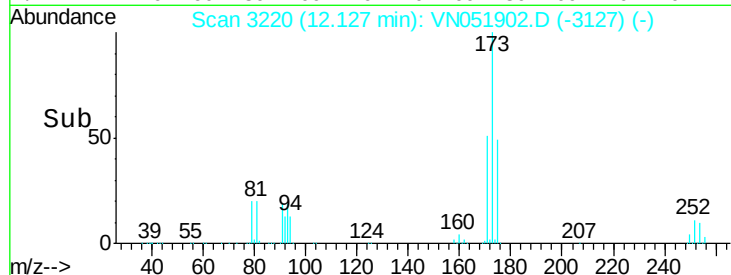
MMDadoda
10/19/2018 3:29:24 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

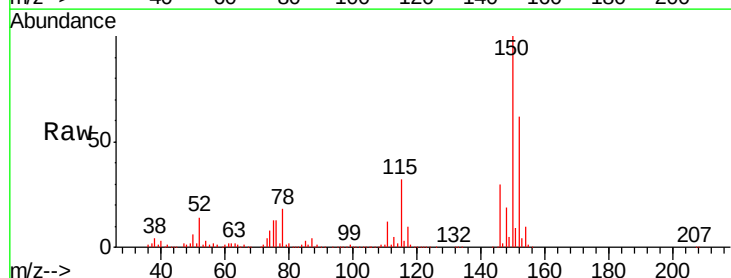
Tgt Ion:152 Resp: 746526

Ion Ratio Lower Upper

152 100

115 52.7 26.7 80.1

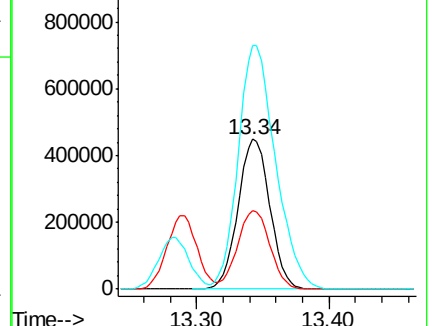
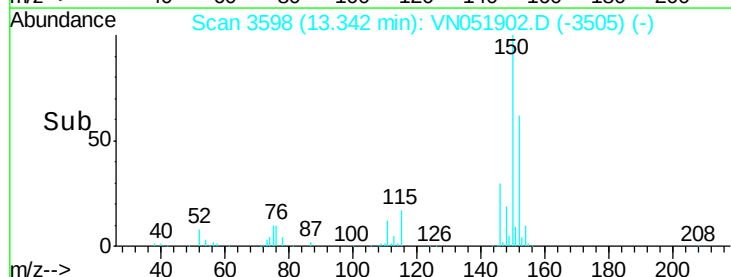
150 190.6 0.0 346.4

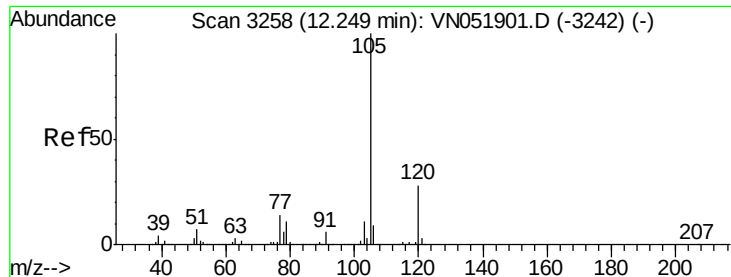


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





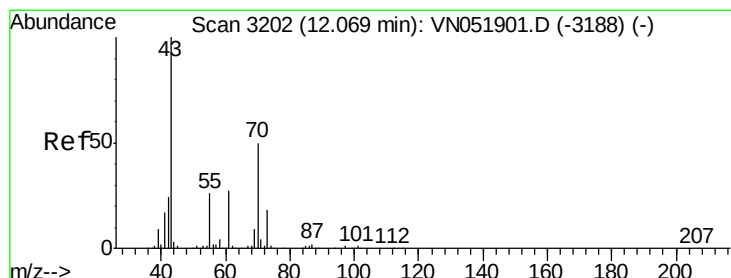
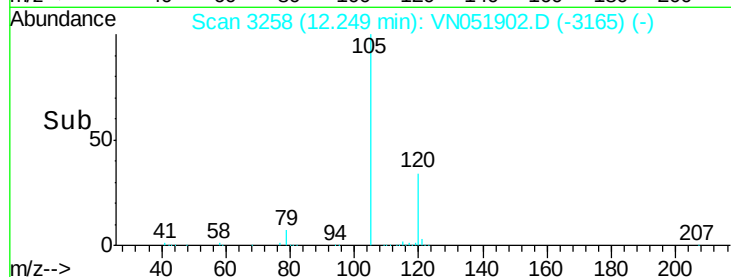
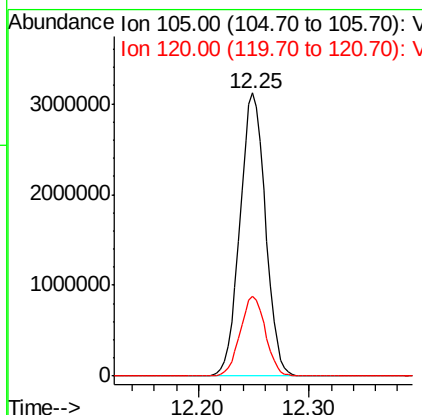
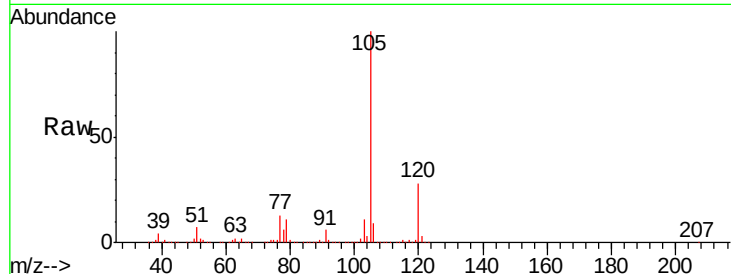
#73
Isopropylbenzene
Concen: 86.21 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 105 Resp: 4982276
Ion Ratio Lower Upper
105 100
120 28.1 14.0 41.9

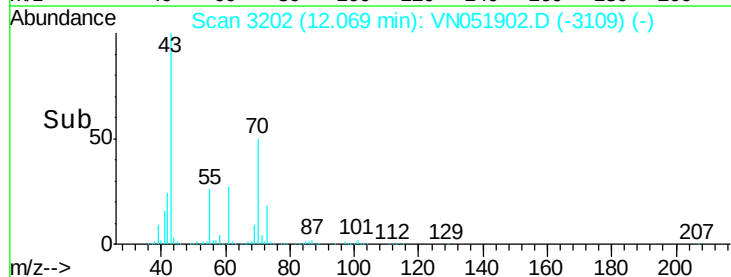
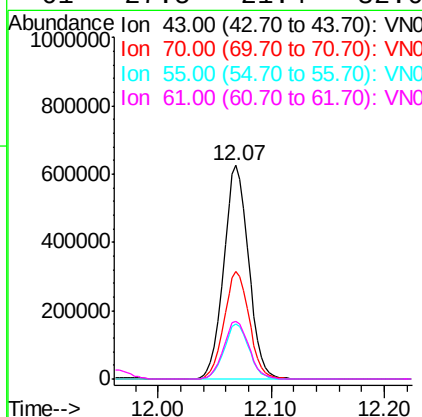
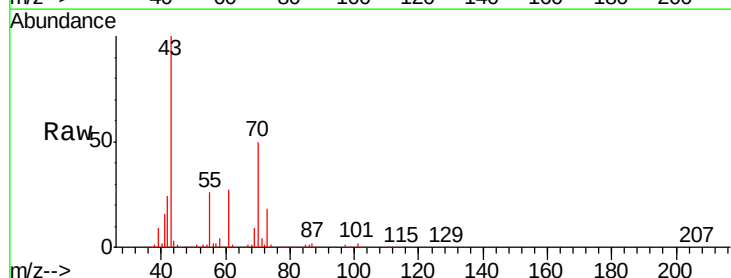
Manual Integrations
APPROVED

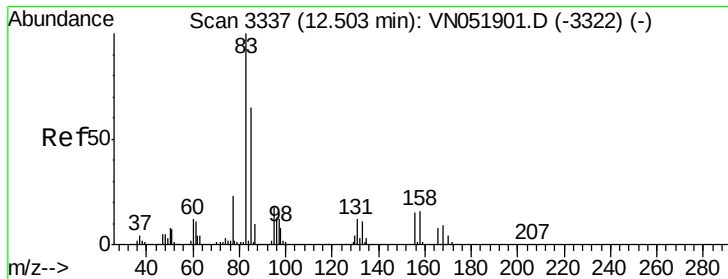
MMDadoda
10/19/2018 3:29:24 PM



#74
N-ethyl acetate
Concen: 96.15 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion: 43 Resp: 955347
Ion Ratio Lower Upper
43 100
70 50.8 40.1 60.1
55 25.8 21.0 31.4
61 27.5 21.4 32.0





#75

1,1,2,2-Tetrachloroethane

Concen: 87.38 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 1020560

Ion Ratio Lower Upper

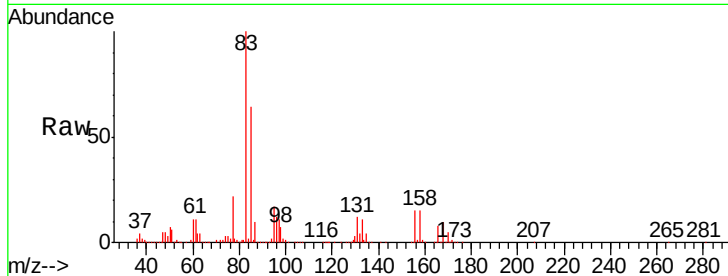
83 100

131 12.7 6.2 18.6

85 65.0 32.6 97.7

Manual Integrations
APPROVED

MMDadoda
10/19/2018 3:29:24 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

12.50

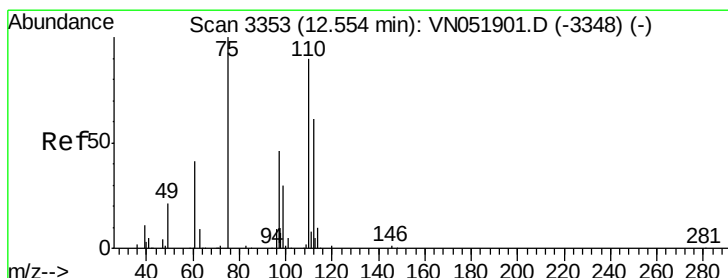
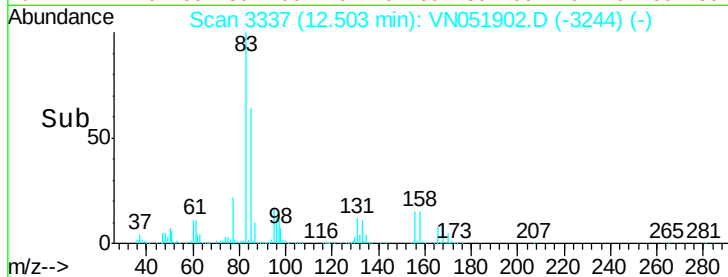
600000

400000

200000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 84.96 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051902.D

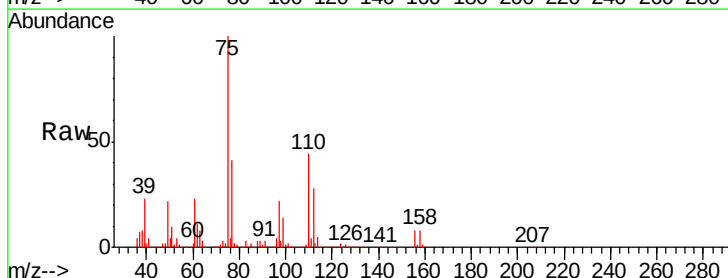
Acq: 17 Oct 2018 10:35

Tgt Ion: 75 Resp: 802055

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

1000000

800000

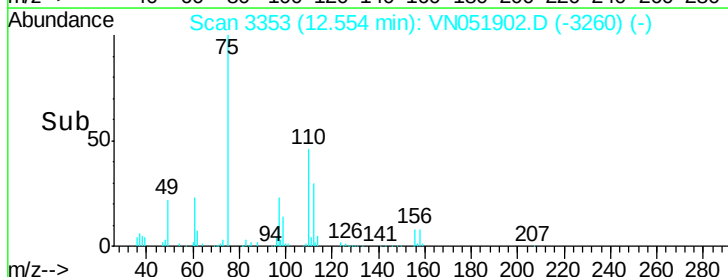
600000

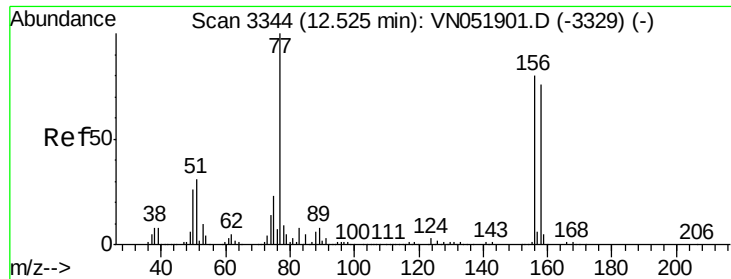
400000

200000

0

Time-->





#77

Bromobenzene

Concen: 91.84 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:156 Resp: 1350493

Ion Ratio Lower Upper

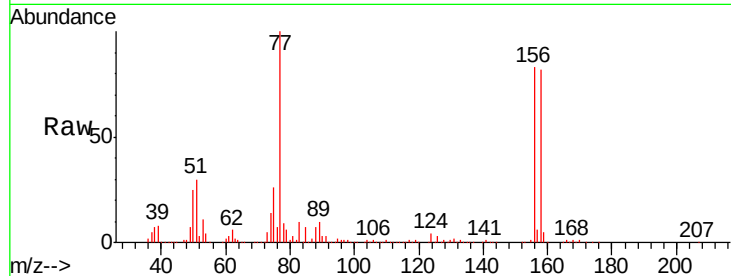
156 100

77 140.1 73.0 219.0

158 97.8 48.4 145.0

Manual Integrations
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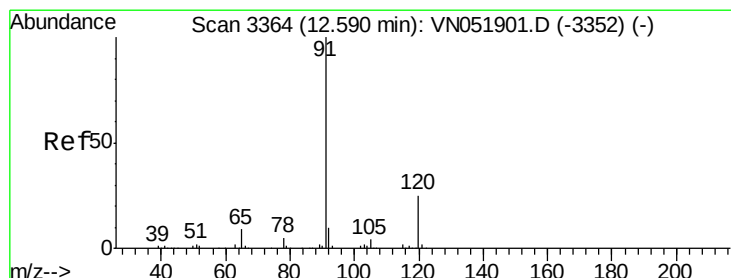
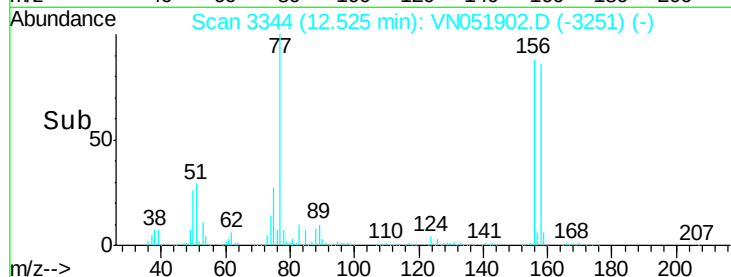
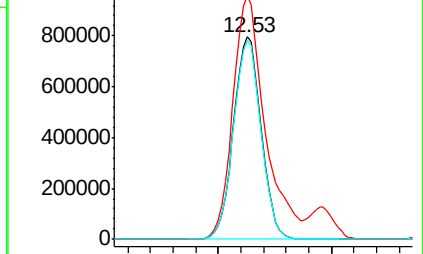
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 89.61 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051902.D

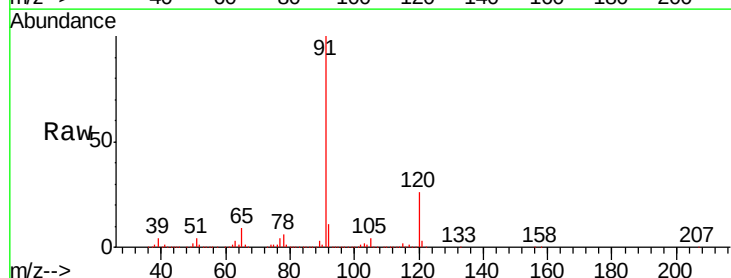
Acq: 17 Oct 2018 10:35

Tgt Ion: 91 Resp: 5391046

Ion Ratio Lower Upper

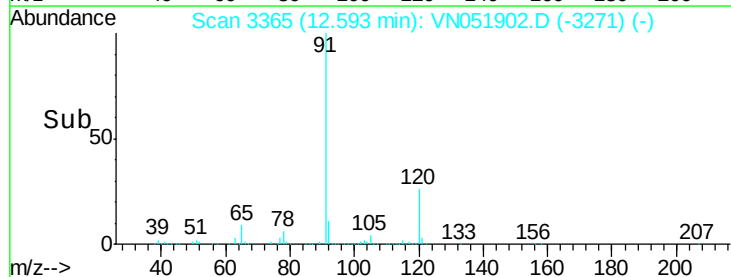
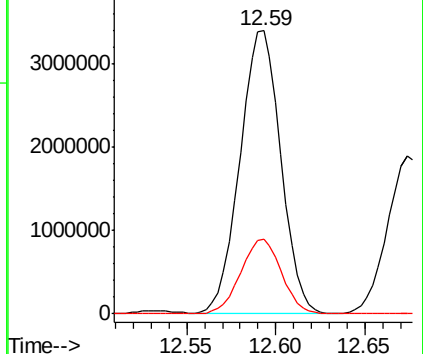
91 100

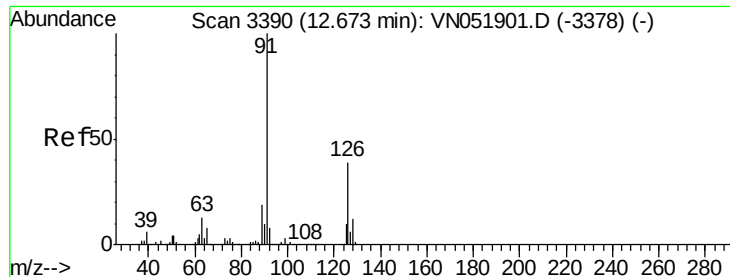
120 26.3 12.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 85.00 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 3111920

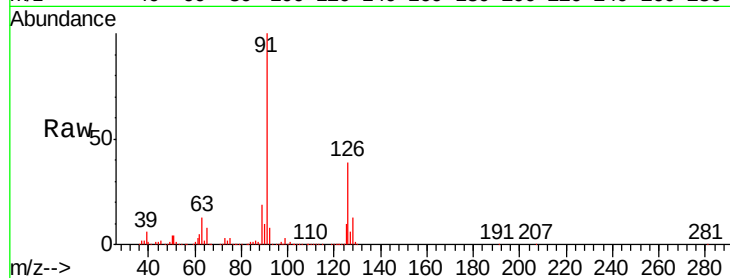
Ion Ratio Lower Upper

91 100

126 39.8 19.6 58.7

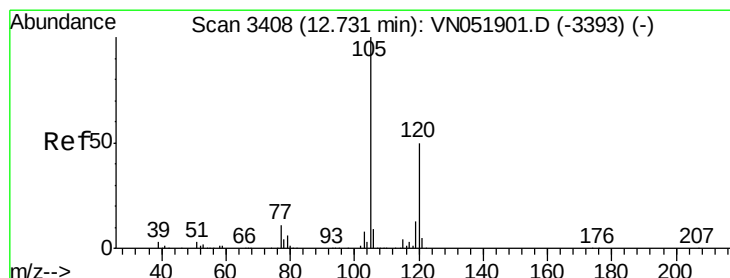
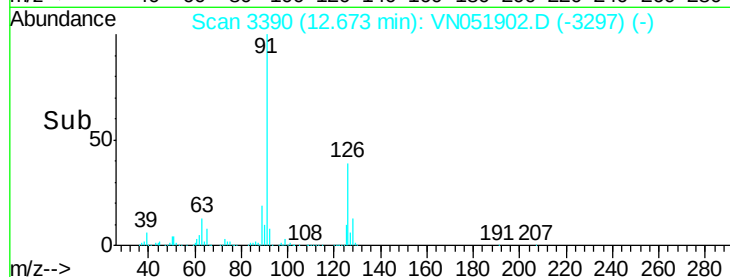
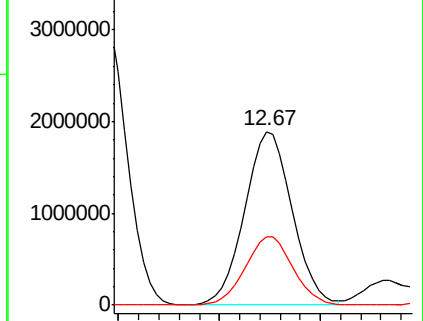
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN051901.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN051901.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 89.91 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051902.D

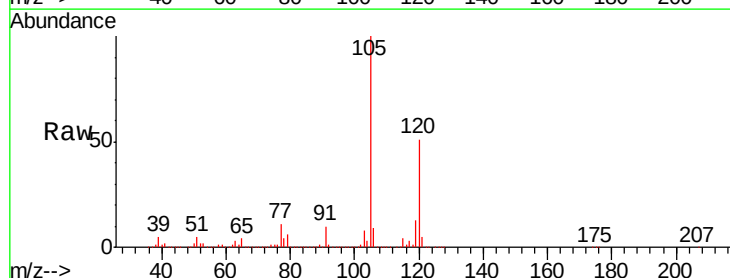
Acq: 17 Oct 2018 10:35

Tgt Ion: 105 Resp: 4200046

Ion Ratio Lower Upper

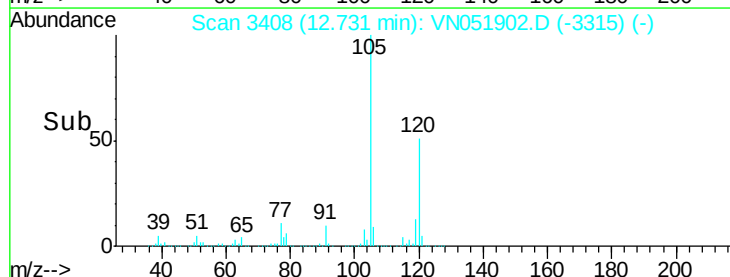
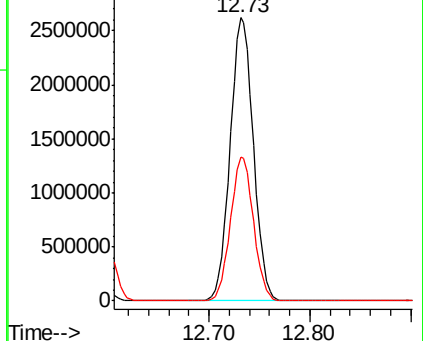
105 100

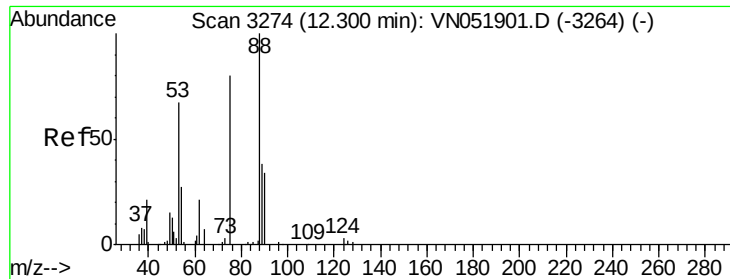
120 50.6 25.3 75.9



Abundance Ion 105.00 (104.70 to 105.70): VN051901.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN051901.D (-3393) (-)





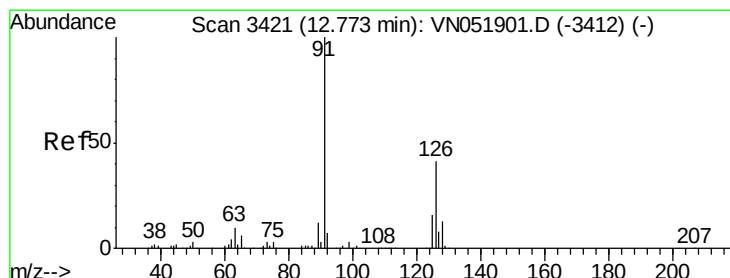
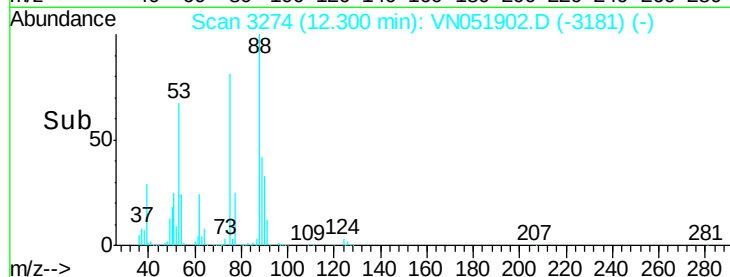
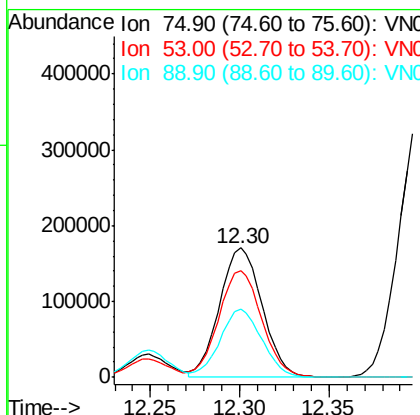
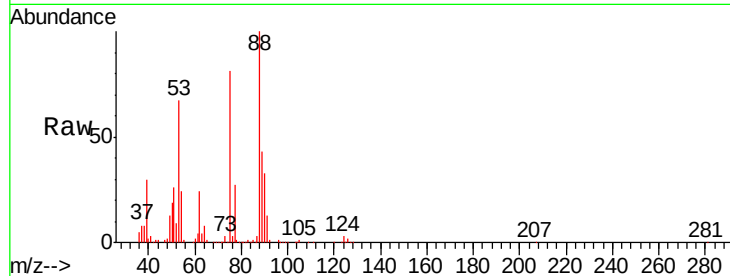
#81
trans-1,4-Dichloro-2-butene
Concen: 112.10 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
75	100		
53	84.0	68.5	102.7
89	52.1	39.0	58.6

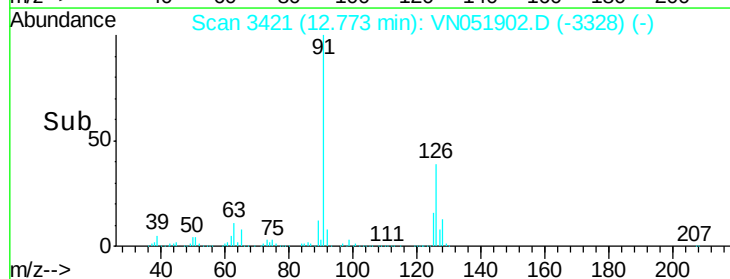
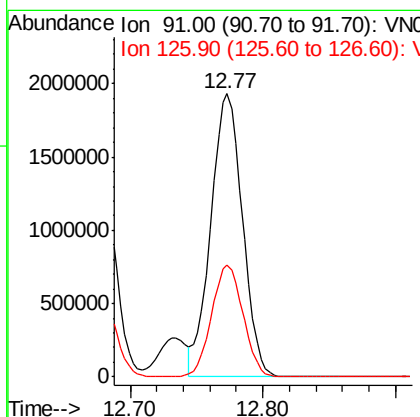
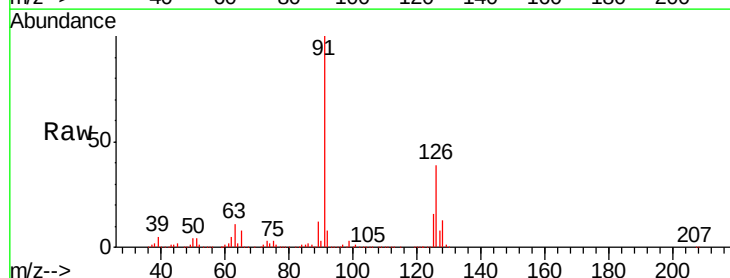
Manual Integrations
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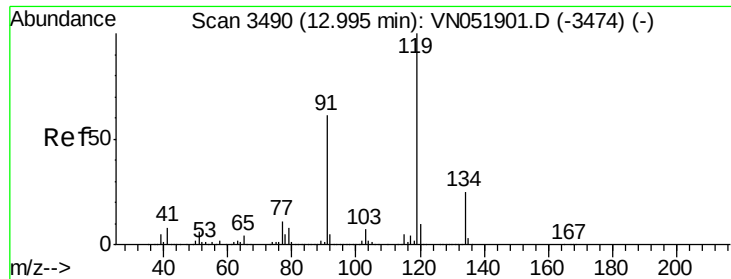
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#82
4-Chlorotoluene
Concen: 91.00 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN051902.D
Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	39.2	18.9	56.7





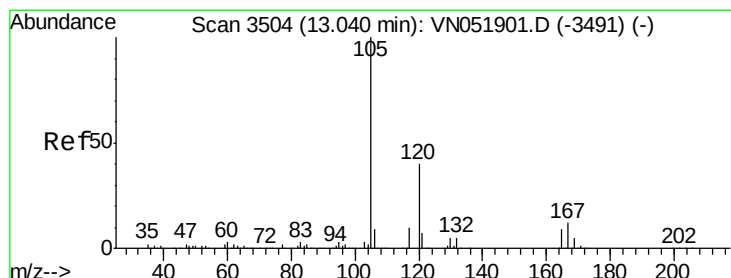
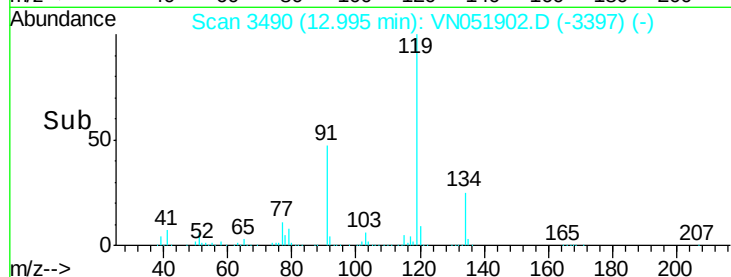
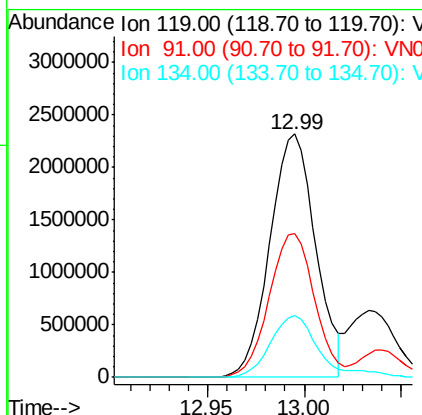
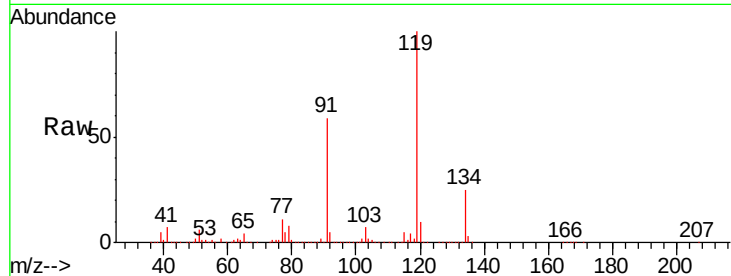
#83
 tert-Butylbenzene
 Concen: 86.68 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion:119 Resp: 3805104
 Ion Ratio Lower Upper
 119 100
 91 58.7 30.3 90.9
 134 27.2 13.4 40.1

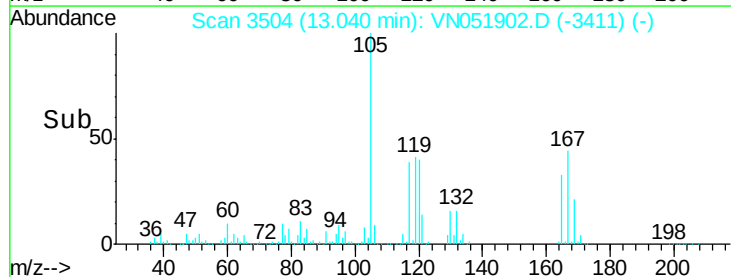
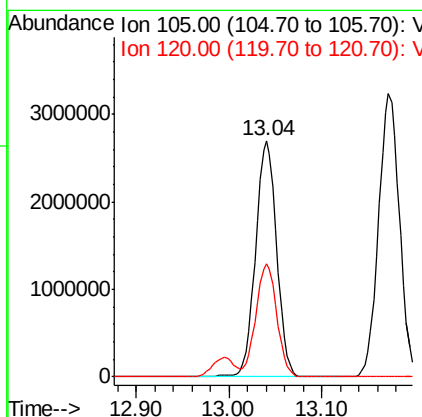
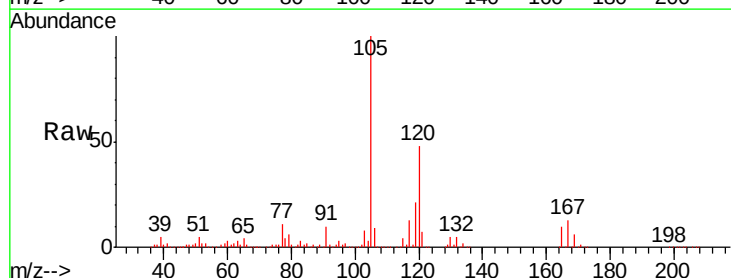
Manual Integrations
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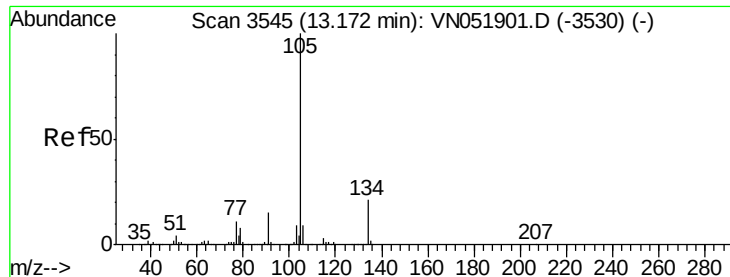
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#84
 1,2,4-Trimethylbenzene
 Concen: 92.33 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Tgt Ion:105 Resp: 4240749
 Ion Ratio Lower Upper
 105 100
 120 47.7 23.8 71.4





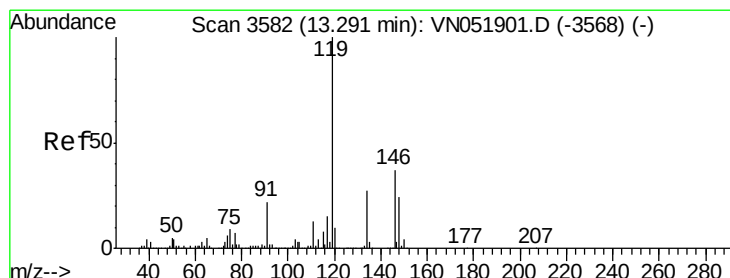
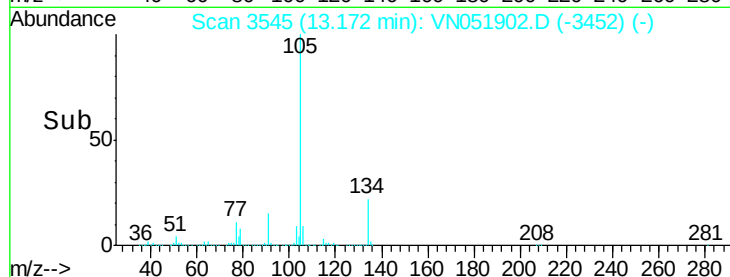
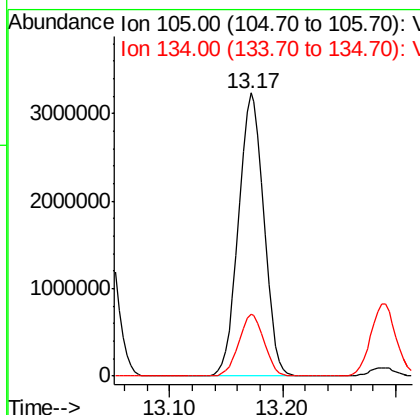
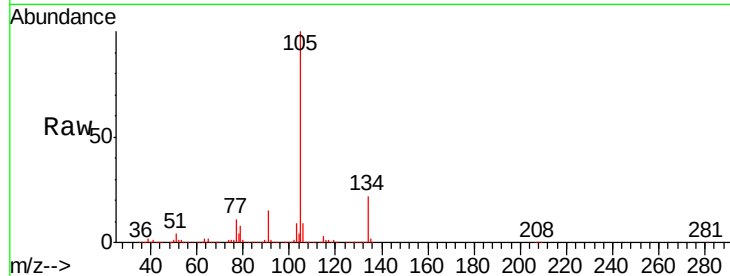
#85
 sec-Butylbenzene
 Concen: 90.45 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion:105 Resp: 5047379
 Ion Ratio Lower Upper
 105 100
 134 21.9 10.8 32.3

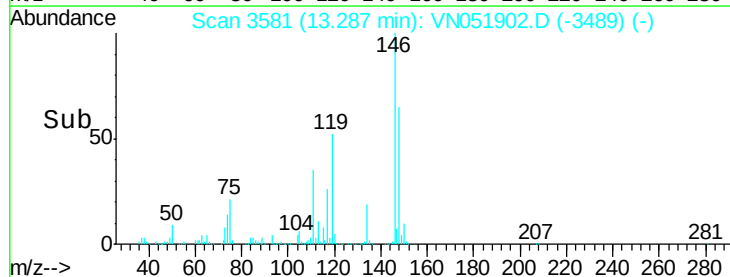
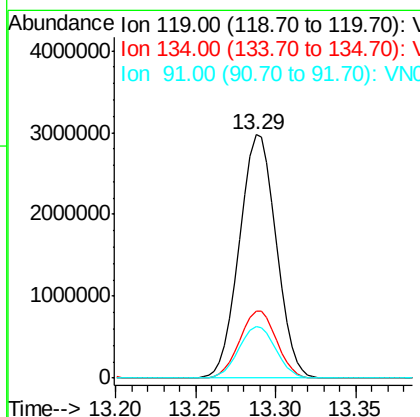
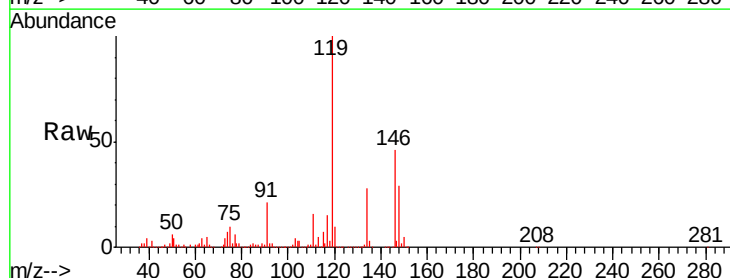
Manual Integrations
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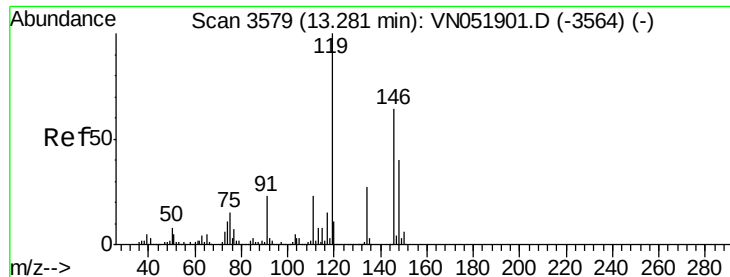
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#86
 p-Isopropyltoluene
 Concen: 96.16 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Tgt Ion:119 Resp: 4650887
 Ion Ratio Lower Upper
 119 100
 134 27.6 13.8 41.3
 91 21.1 10.9 32.9





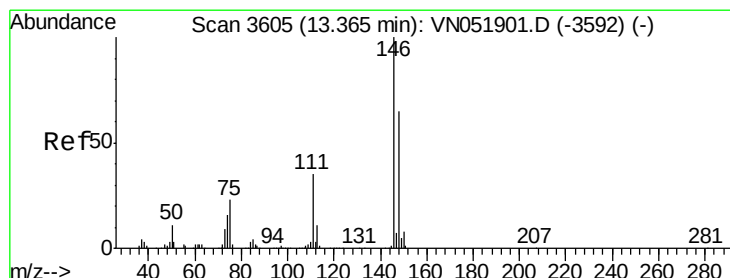
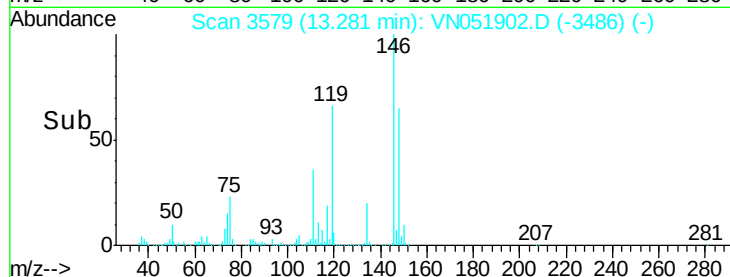
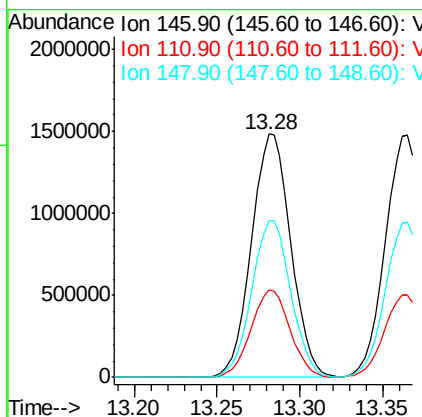
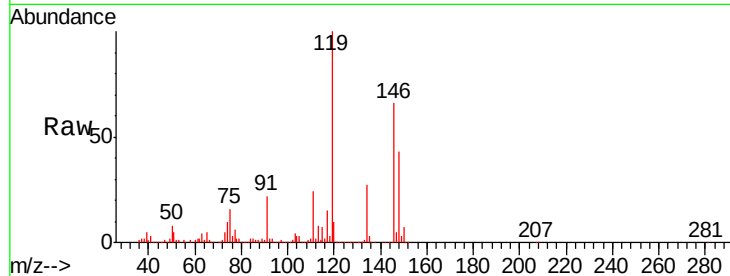
#87
 1,3-Dichlorobenzene
 Concen: 98.96 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.7	18.3	54.8
148	64.2	31.9	95.7

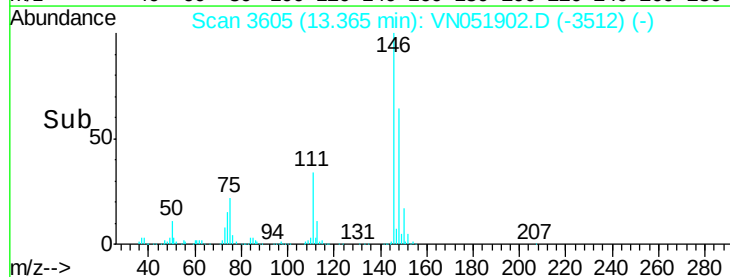
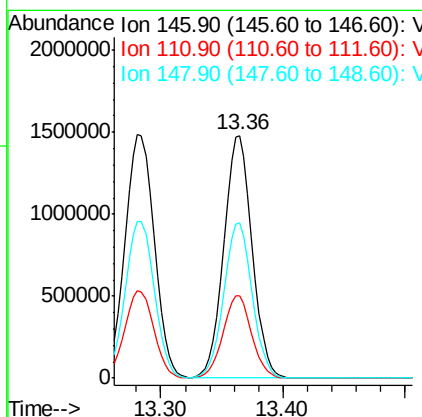
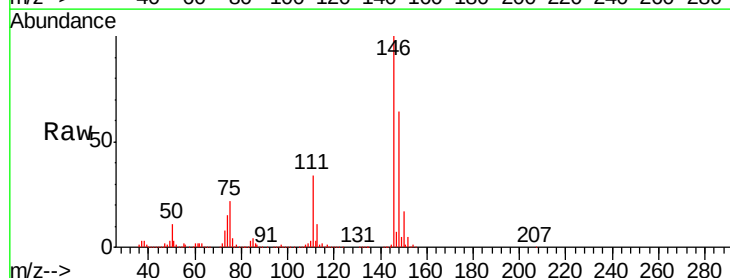
Manual Integrations
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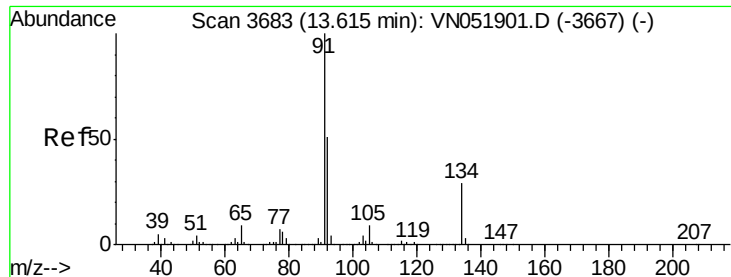
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#88
 1,4-Dichlorobenzene
 Concen: 98.72 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051902.D
 Acq: 17 Oct 2018 10:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.3	17.9	53.7
148	64.2	32.8	98.3





#89

n-Butylbenzene

Concen: 103.25 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 3622455

Ion Ratio Lower Upper

91 100

92 52.0 25.9 77.7

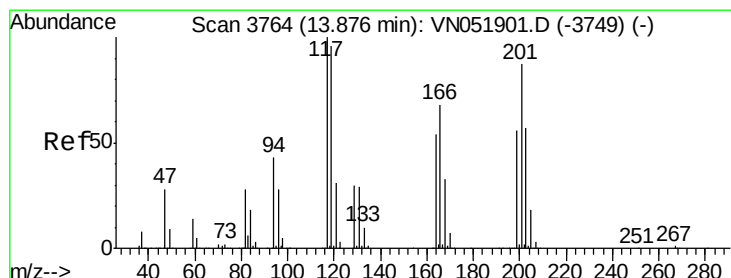
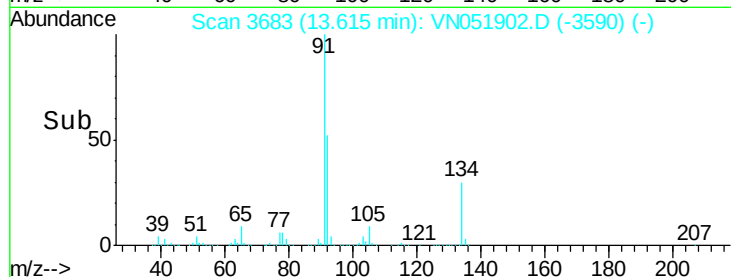
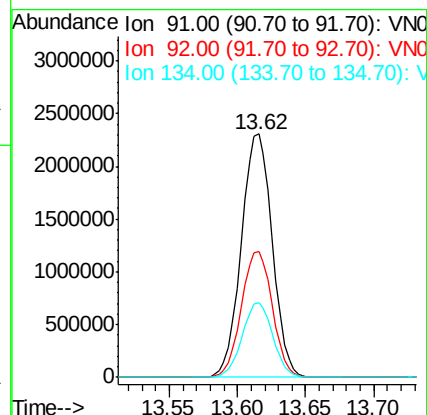
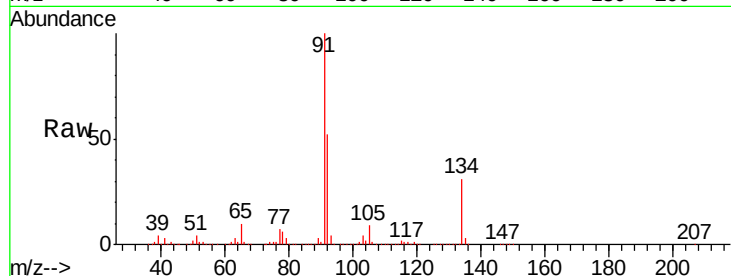
134 30.4 14.6 43.8

Manual Integrations

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#90

Hexachloroethane

Concen: 97.75 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN051902.D

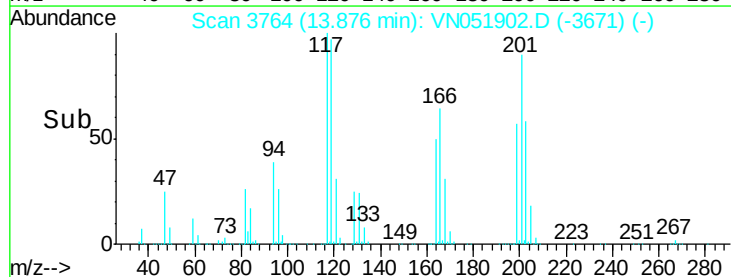
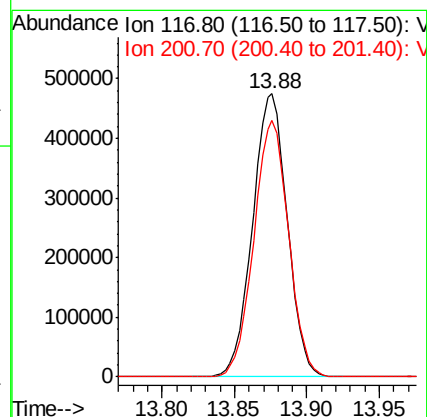
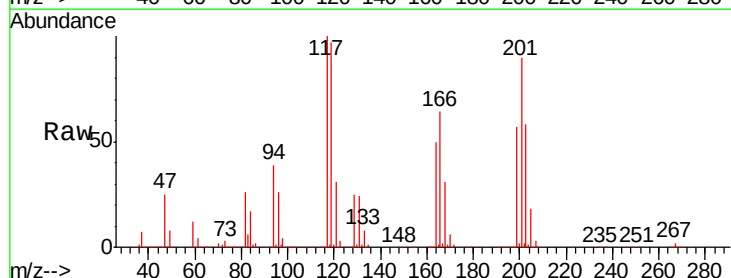
Acq: 17 Oct 2018 10:35

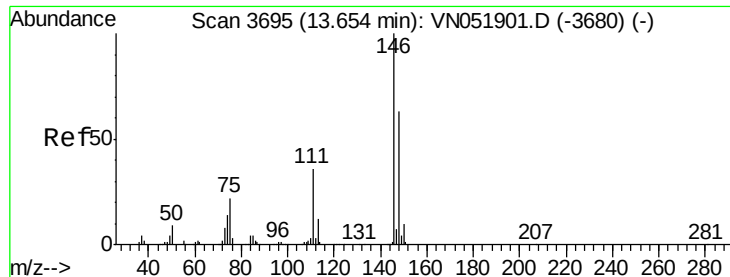
Tgt Ion: 117 Resp: 790730

Ion Ratio Lower Upper

117 100

201 90.7 43.8 131.3





#91

1,2-Dichlorobenzene

Concen: 98.72 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 146 Resp: 2369441

Ion Ratio Lower Upper

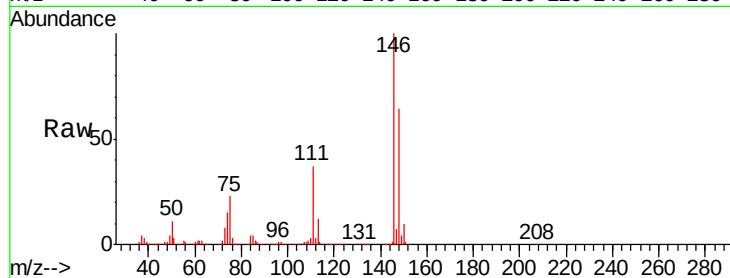
146 100

111 36.4 18.6 55.6

148 63.9 32.0 96.2

Manual Integrations
APPROVED

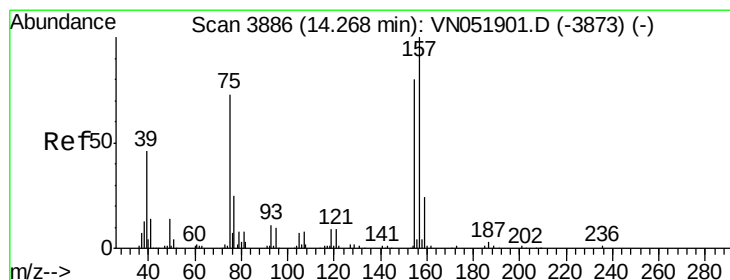
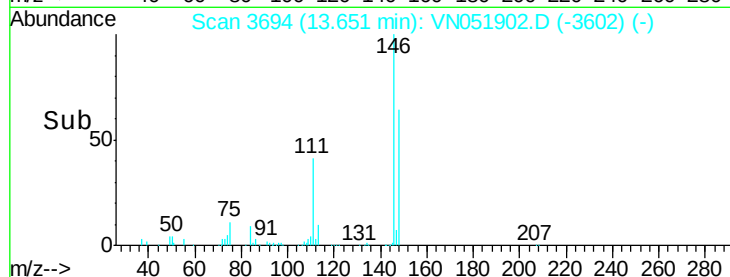
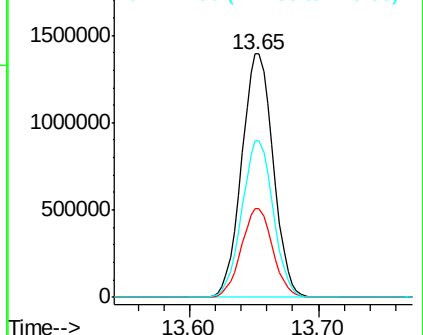
MMDadoda
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Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 98.56 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

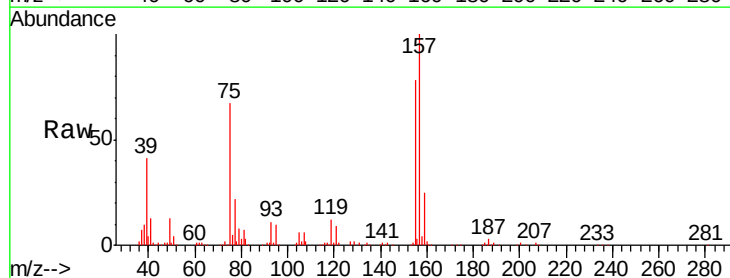
Tgt Ion: 75 Resp: 154205

Ion Ratio Lower Upper

75 100

155 112.1 53.4 160.2

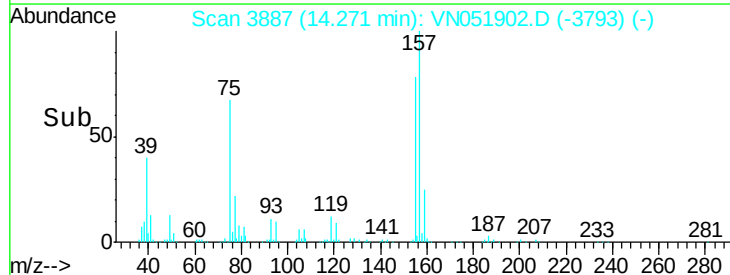
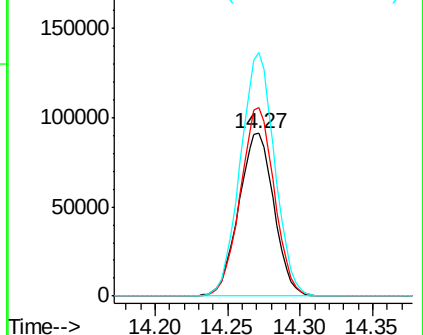
157 145.4 69.3 207.9

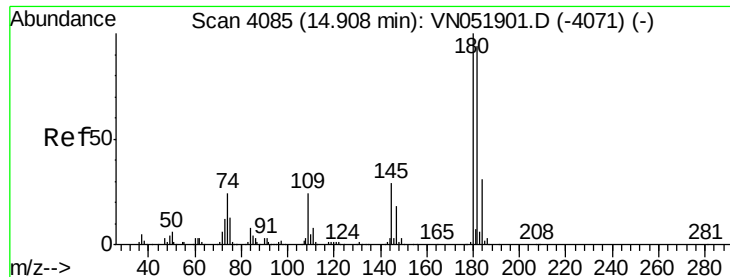


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 117.16 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 1218328

Ion Ratio Lower Upper

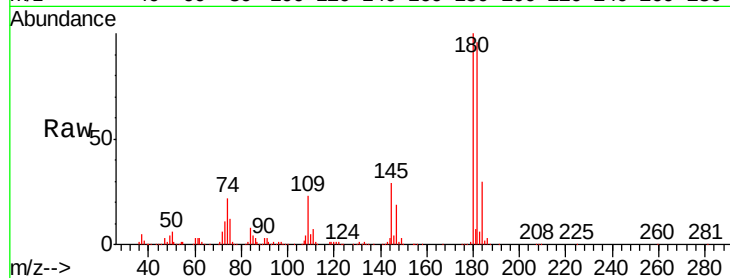
180 100

182 95.7 47.3 141.9

145 29.3 14.5 43.5

Manual Integrations
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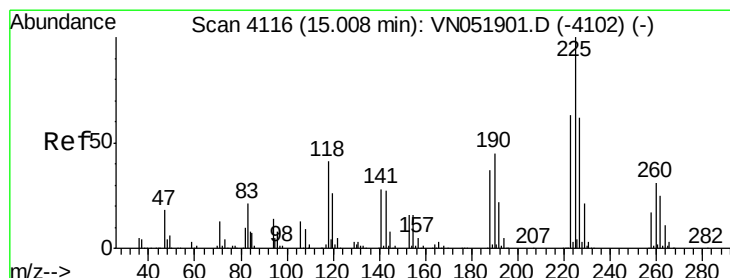
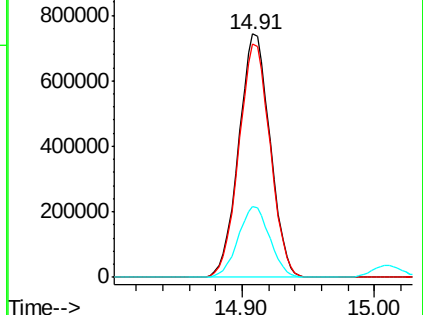
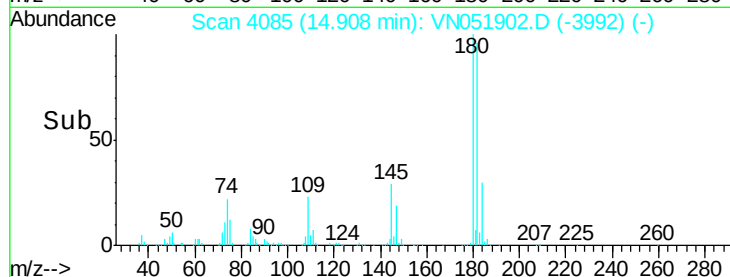
MMDadoda
10/19/2018 3:29:24 PM



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 92.80 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

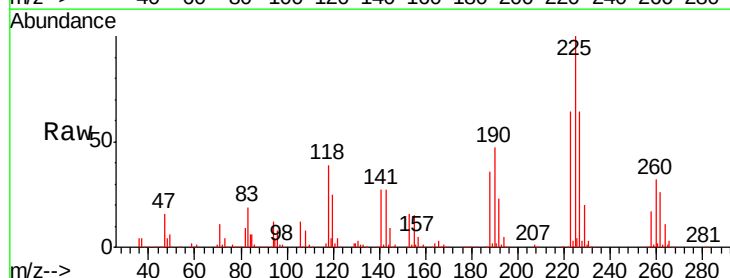
Tgt Ion:225 Resp: 705379

Ion Ratio Lower Upper

225 100

223 63.6 32.0 96.2

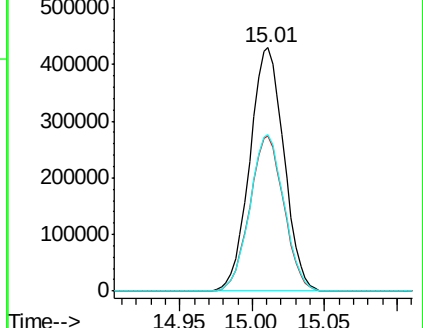
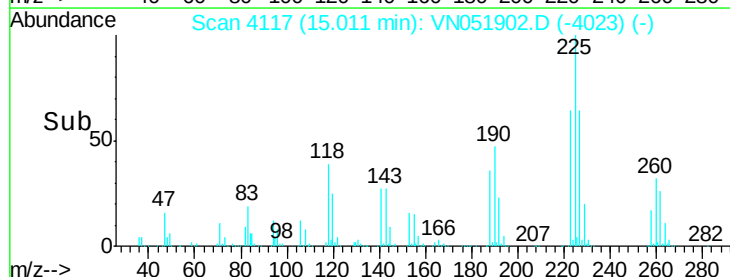
227 64.4 31.9 95.9

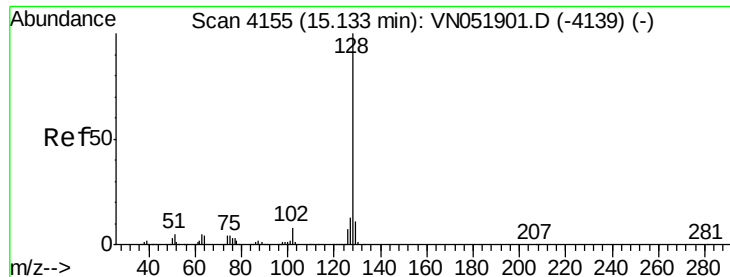


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 121.68 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:128 Resp: 2517275

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

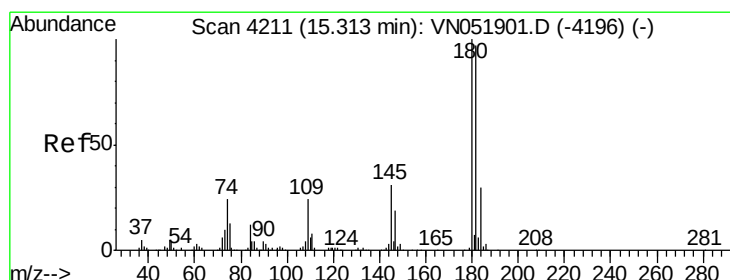
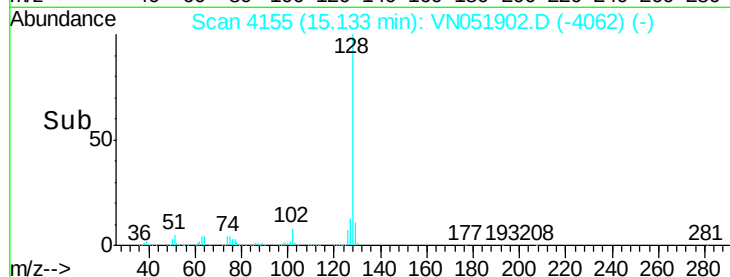
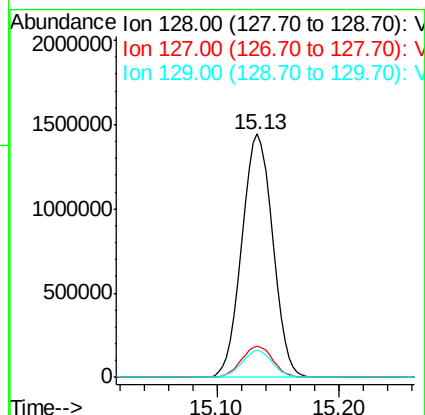
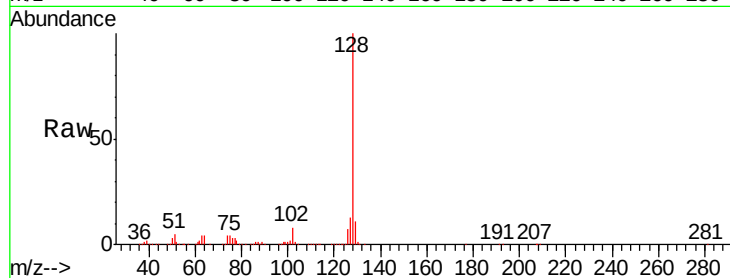
129 10.8 8.5 12.7

Manual Integrations

APPROVED

MMDadoda

10/19/2018 3:29:24 PM



#96

1,2,3-Trichlorobenzene

Concen: 114.58 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051902.D

Acq: 17 Oct 2018 10:35

Tgt Ion:180 Resp: 1181031

Ion Ratio Lower Upper

180 100

182 93.8 47.9 143.8

145 30.3 15.2 45.6

