

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051837.D
 Acq On : 12 Oct 2018 17:04
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:28:03 AM

Quant Time: Oct 13 02:03:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	131669	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	751183	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	655517	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	250562	31.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.23%
60) 4-Bromofluorobenzene	12.40	95	272307	28.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.03%
63) Toluene-d8	10.09	98	862529	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	102706	20.08	ug/l	96
3) Chloromethane	2.06	50	111914	20.70	ug/l	99
4) Vinyl Chloride	2.18	62	165458	20.49	ug/l	97
5) Bromomethane	2.57	94	145508	20.40	ug/l	86
6) Chloroethane	2.70	64	122364	21.03	ug/l	98
7) Trichlorofluoromethane	3.01	101	238447	20.72	ug/l	94
8) Diethyl Ether	3.41	74	67660	20.19	ug/l	76
9) 1,1,2-Trichlorotrifluoroet	3.76	101	132602	20.23	ug/l #	39
10) 1,1-Dichloroethene	3.74	96	123447	20.36	ug/l	86
11) Methyl Iodide	3.95	142	176076	19.98	ug/l	95
12) Methyl Acetate	4.33	43	78361	20.82	ug/l	96
13) Acrolein	3.61	56	23878	96.27	ug/l	82
14) Acrylonitrile	5.00	53	172780	102.70	ug/l #	62
15) Acetone	3.82	58	41155	98.95	ug/l	97
16) Carbon Disulfide	4.05	76	299198	18.79	ug/l	98
17) Allyl chloride	4.33	41	143166	19.89	ug/l	78
18) Methylene Chloride	4.55	84	140659	20.75	ug/l	88
19) trans-1,2-Dichloroethene	5.04	96	139616	20.17	ug/l	84
20) Diisopropyl ether	5.96	45	326236	20.35	ug/l #	86
21) 1,1-Dichloroethane	5.85	63	230361	20.57	ug/l #	96
22) cis-1,2-Dichloroethene	6.83	96	162835	20.03	ug/l #	83
23) tert-Butyl Alcohol	4.80	59	43228	97.56	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	365521	20.93	ug/l #	67
25) Chloroform	7.37	83	269741	20.30	ug/l	95
26) Cyclohexane	7.65	56	184356	19.42	ug/l #	71
29) 1,1-Dichloropropene	7.79	75	189564	19.58	ug/l	94
30) 2-Butanone	6.84	43	190652	94.20	ug/l #	86
31) 2,2-Dichloropropane	6.83	77	202464	17.77	ug/l #	79
32) 1,1,1-Trichloroethane	7.57	97	254356	19.81	ug/l	95
33) Carbon Tetrachloride	7.77	117	224858	19.36	ug/l	92
34) Benzene	8.04	78	573631	20.03	ug/l #	67
35) Methacrylonitrile	7.18	41	48063	18.08	ug/l	90
36) 1,2-Dichloroethane	8.13	62	183881	20.04	ug/l	98
37) Trichloroethene	8.84	130	176150	19.81	ug/l	97
38) Methylcyclohexane	9.08	83	232507	18.72	ug/l	79
39) 1,2-Dichloropropane	9.12	63	134309	19.91	ug/l	96
40) Dibromomethane	9.21	93	97776	19.53	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	199447	19.29	ug/l	94
42) Vinyl Acetate	5.90	43	1119684	98.28	ug/l #	90
43) Ethyl Acetate	6.93	43	90079	20.50	ug/l	96
44) Isopropyl Acetate	8.17	43	170024	19.37	ug/l	95
45) 1,4-Dioxane	9.20	88	28573	405.41	ug/l #	73
46) Methyl methacrylate	9.20	41	81405	20.11	ug/l	78
47) n-amyl Acetate	12.07	43	129493m	17.62	ug/l	
48) t-1,3-Dichloropropene	10.38	75	186768	18.52	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	210476	18.93	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	135999	19.66	ug/l	96
51) Ethyl methacrylate	10.43	69	155060	19.58	ug/l	84
52) 1,3-Dichloropropane	10.71	76	215691	20.20	ug/l	97
53) Dibromochloromethane	10.90	129	159535	18.64	ug/l	92
54) 1,2-Dibromoethane	11.01	107	144568	19.91	ug/l	93
55) 2-Chloroethyl vinyl ether	9.70	63	331433	97.90	ug/l #	93
56) Bromoform	12.13	173	96070	17.02	ug/l #	95
58) 4-Methyl-2-Pentanone	9.99	43	465572	106.13	ug/l #	87
59) 2-Hexanone	10.75	43	284971	96.29	ug/l #	90
61) Tetrachloroethene	10.63	164	178043	21.24	ug/l	96
62) Toluene	10.16	91	665644	20.44	ug/l	99
64) Chlorobenzene	11.43	112	433020	20.30	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	163573	19.98	ug/l	98
66) Ethyl Benzene	11.51	91	716008	19.89	ug/l	98
67) m/p-Xylenes	11.62	106	567278	38.88	ug/l	100
68) o-Xylene	11.95	106	288193	20.03	ug/l	89
69) Styrene	11.96	104	425927	19.30	ug/l	97
70) Isopropylbenzene	12.25	105	759763	19.81	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	155545	20.53	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	134254m	22.53	ug/l	
73) Bromobenzene	12.53	156	185536	19.53	ug/l	82
74) n-propylbenzene	12.59	91	805285	19.52	ug/l	95
75) 2-Chlorotoluene	12.68	91	480217	19.85	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	618076	19.48	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	31968	16.22	ug/l	97
78) 4-Chlorotoluene	12.77	91	459429	19.33	ug/l	93
79) tert-butylbenzene	12.99	119	573812	19.67	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	612314	19.31	ug/l	96
81) sec-Butylbenzene	13.17	105	742045	19.45	ug/l	97
82) p-Isopropyltoluene	13.29	119	641041	18.77	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	309762	18.48	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	285354	18.08	ug/l	97
85) n-Butylbenzene	13.62	91	468283	18.19	ug/l	95
86) Hexachloroethane	13.88	117	106220	18.04	ug/l	88
87) 1,2-Dichlorobenzene	13.65	146	309077	19.04	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21309	18.84	ug/l #	75
89) 1,2,4-Trichlorobenzene	14.91	180	117240	18.67	ug/l	100
90) Hexachlorobutadiene	15.01	225	96814	18.51	ug/l	95
91) Naphthalene	15.13	128	242920	19.48	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	126944	17.19	ug/l	95

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QLast Update : Fri Oct 12 10:23:44 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

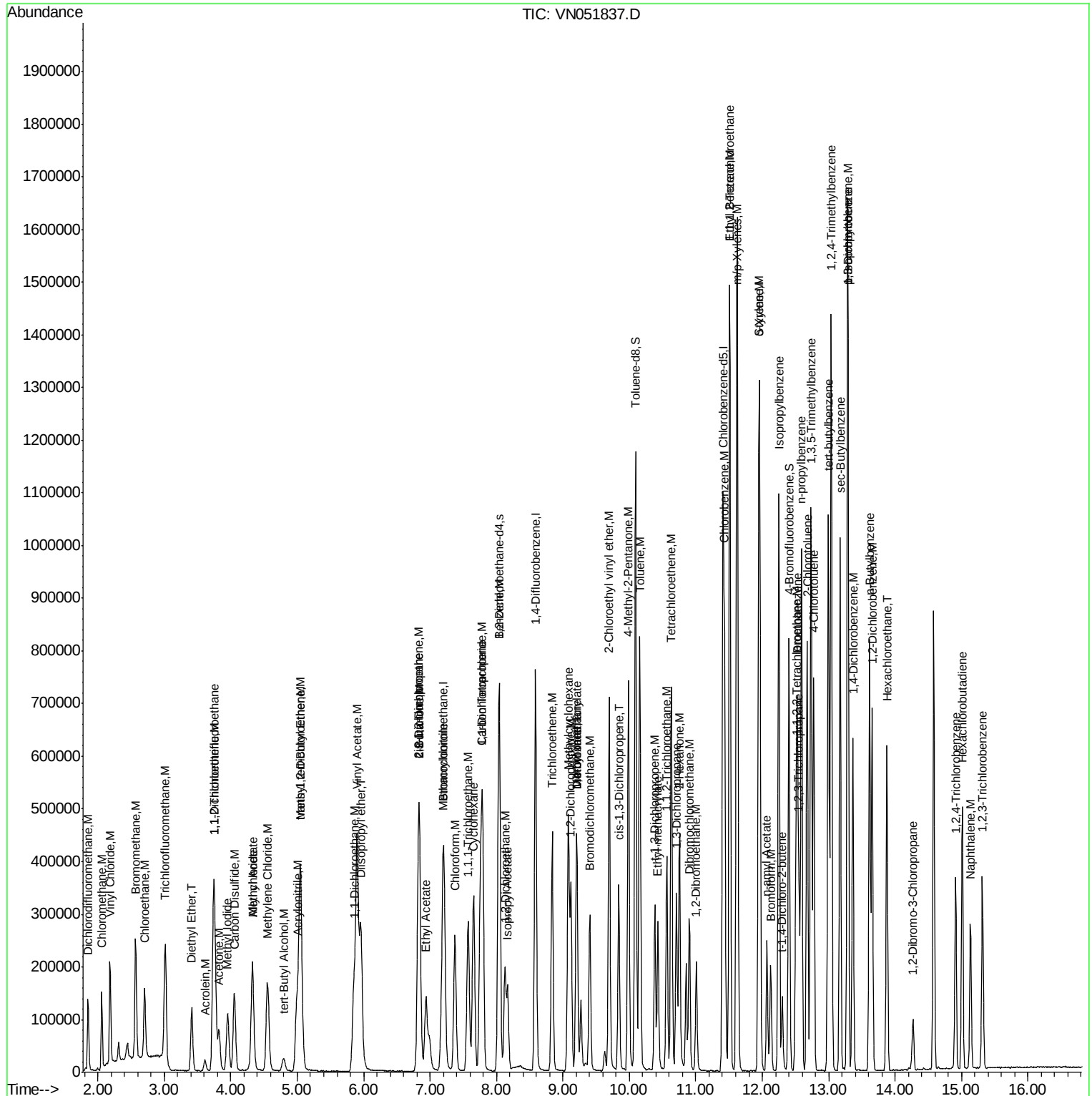
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
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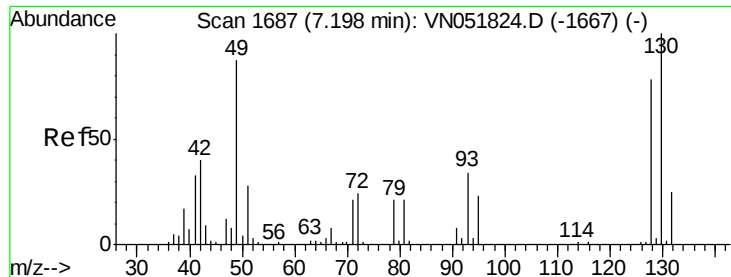
Instrument :
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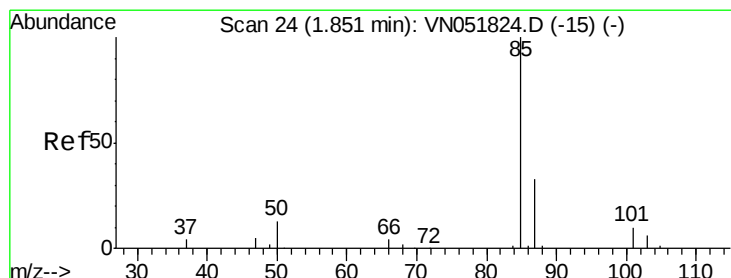
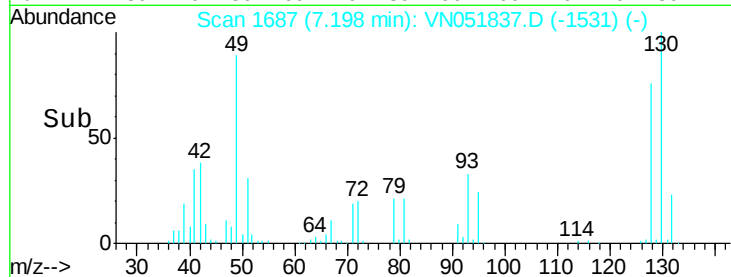
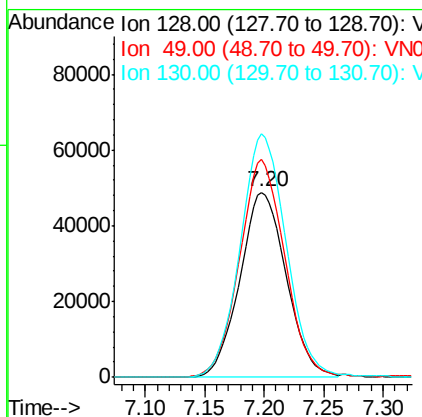
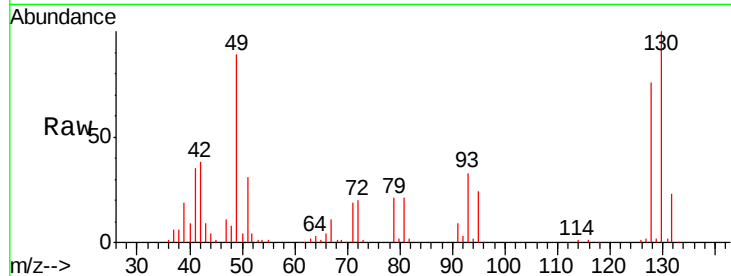
#1
 Bromochloromethane
 Concen: 30.00 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
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 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	131669		
49	116.0	0.0	403.3	
130	130.8	0.0	326.0	

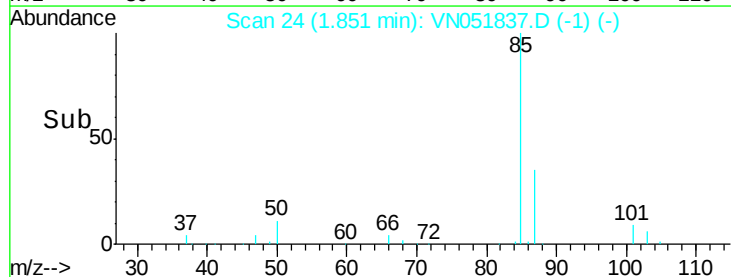
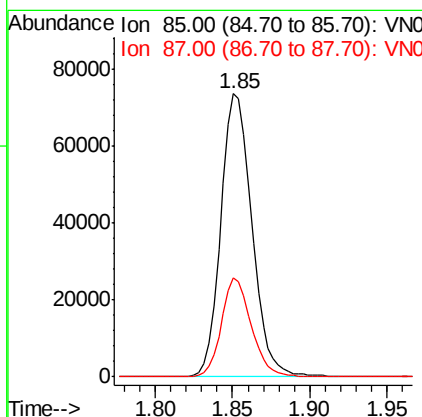
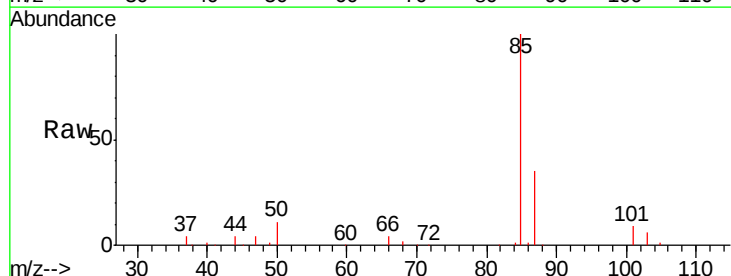
Manual Integrations
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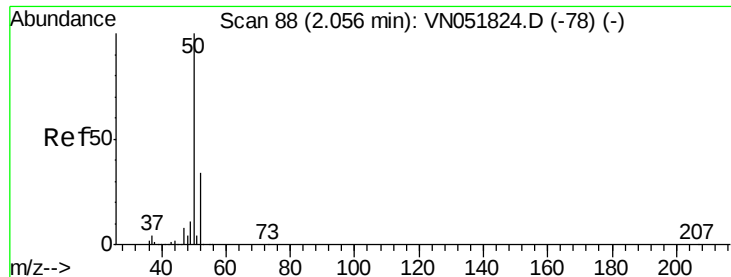
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#2
 Dichlorodifluoromethane
 Concen: 20.08 ug/l
 RT: 1.85 min Scan# 24
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
85	100	102706		
87	34.9	16.3	48.8	





#3

Chloromethane

Concen: 20.70 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 111914

Ion Ratio Lower Upper

50 100

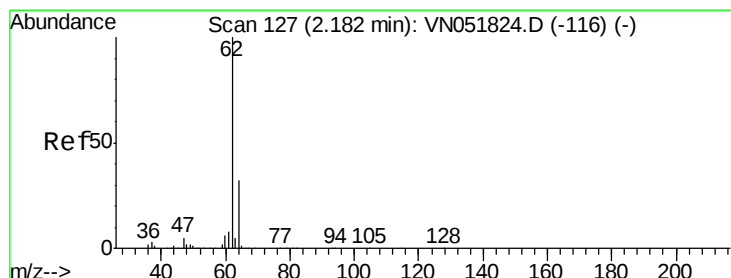
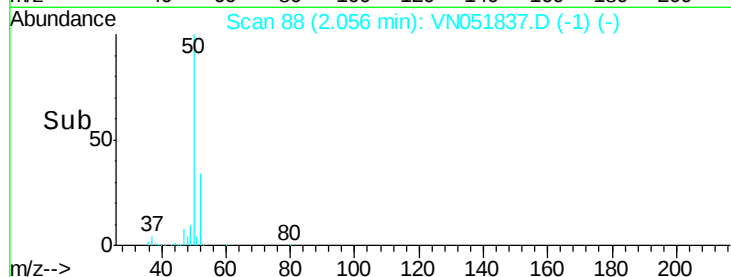
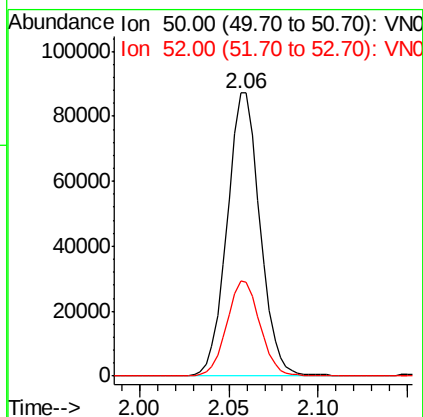
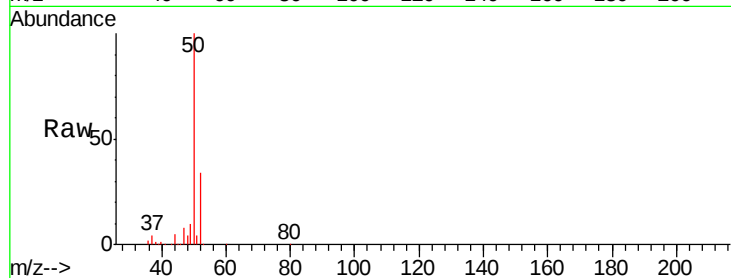
52 33.6 27.2 40.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.49 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051837.D

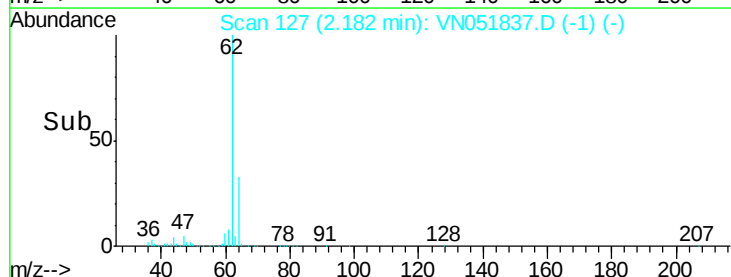
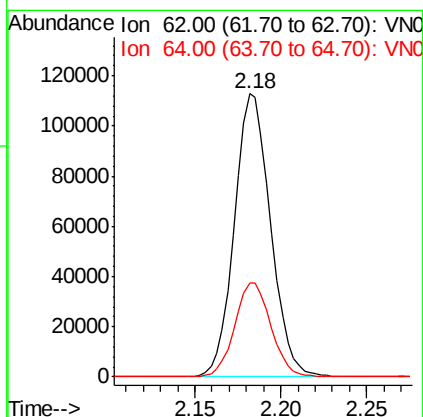
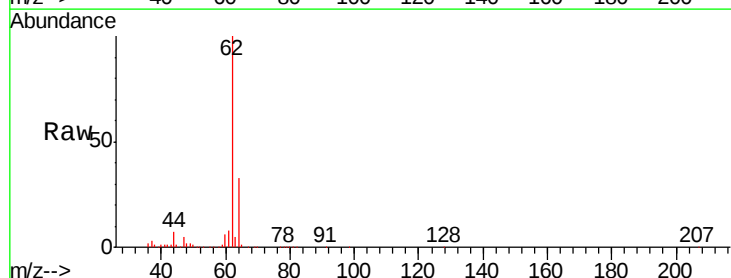
Acq: 12 Oct 2018 17:04

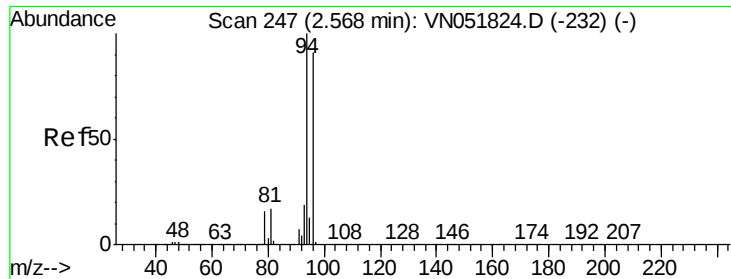
Tgt Ion: 62 Resp: 165458

Ion Ratio Lower Upper

62 100

64 33.3 25.4 38.2





#5

Bromomethane

Concen: 20.40 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 94 Resp: 145508

Ion Ratio Lower Upper

94 100

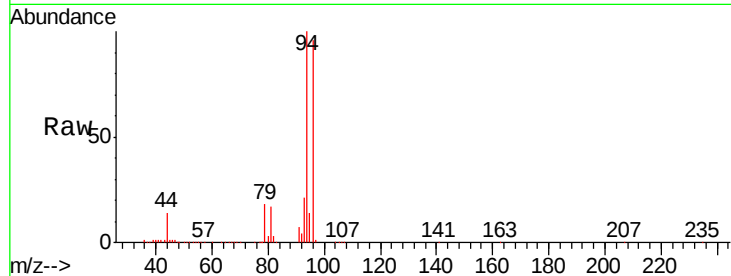
96 95.8 66.4 99.6

Manual Integrations

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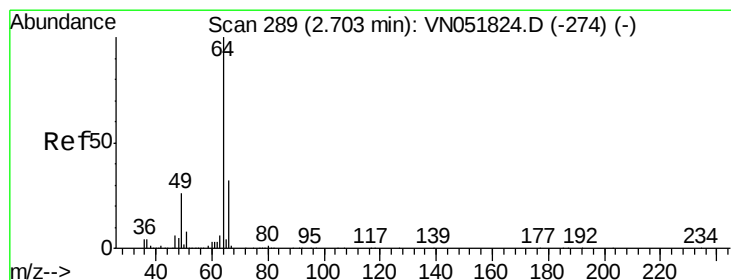
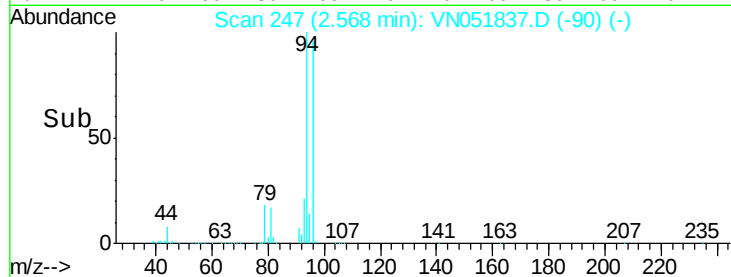
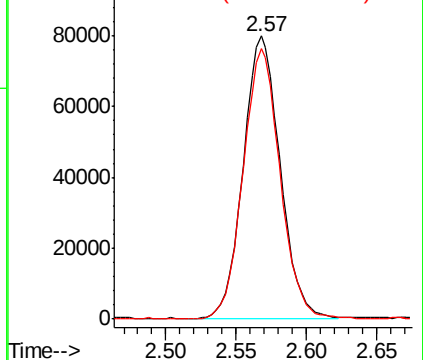
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 21.03 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051837.D

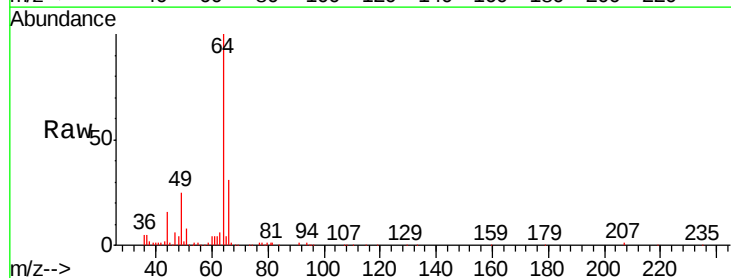
Acq: 12 Oct 2018 17:04

Tgt Ion: 64 Resp: 122364

Ion Ratio Lower Upper

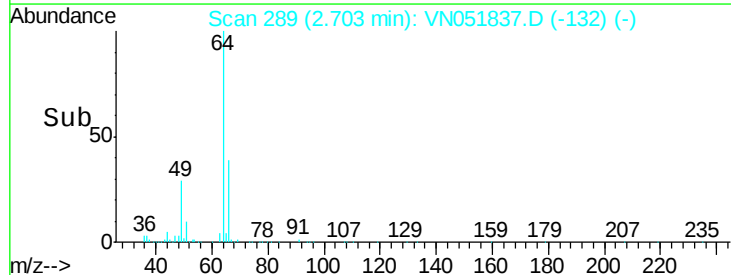
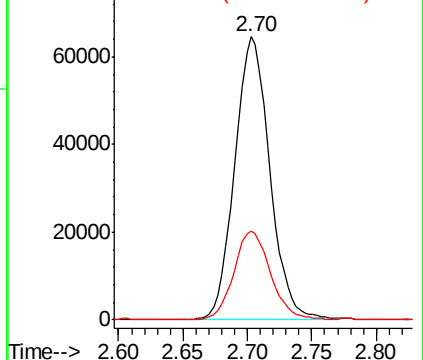
64 100

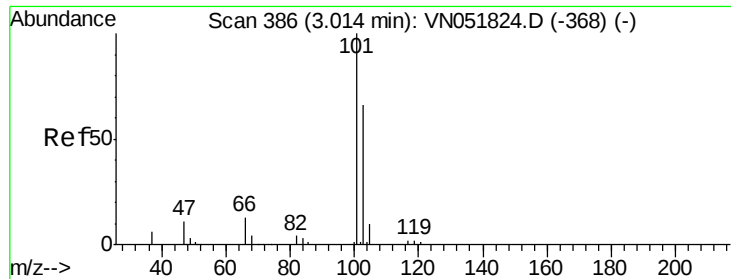
66 31.0 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

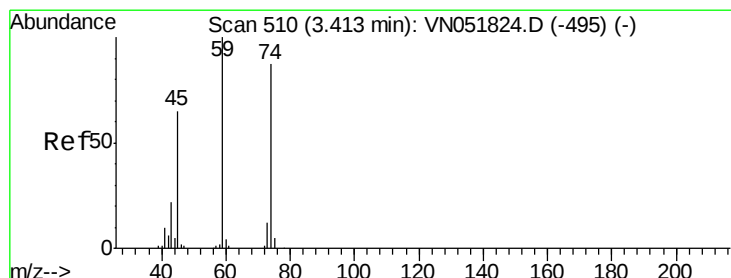
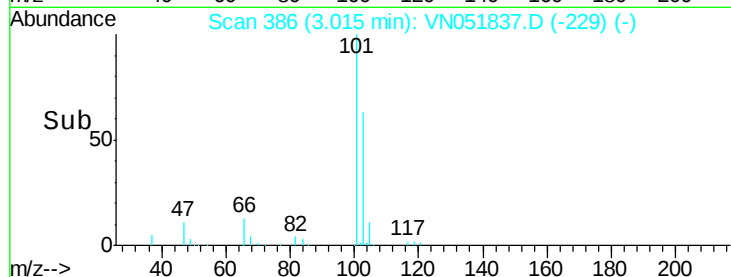
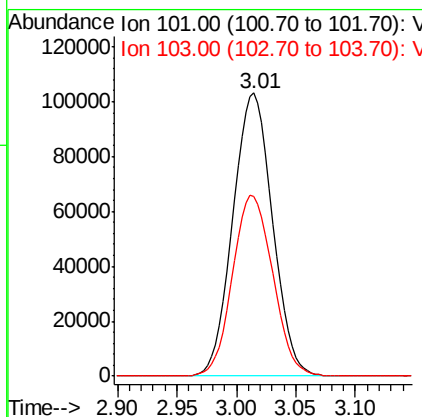
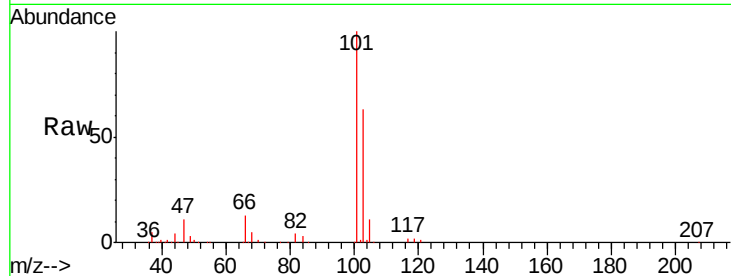
Trichlorofluoromethane
 Concen: 20.72 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
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Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.2	54.8	82.2

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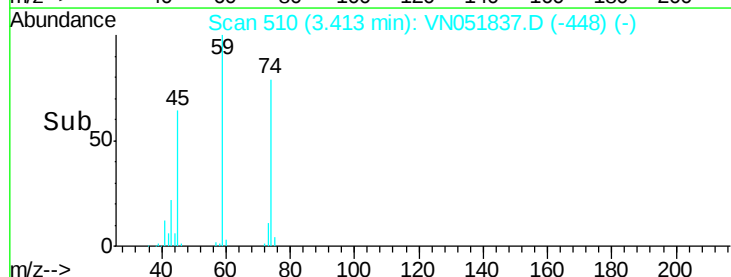
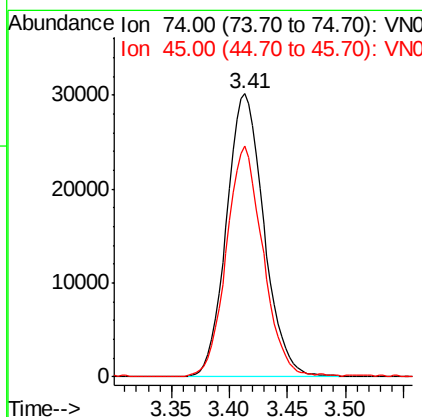
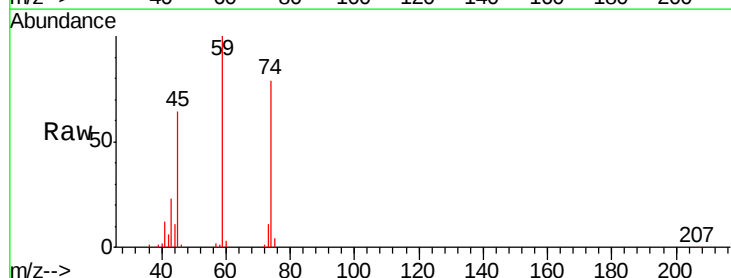
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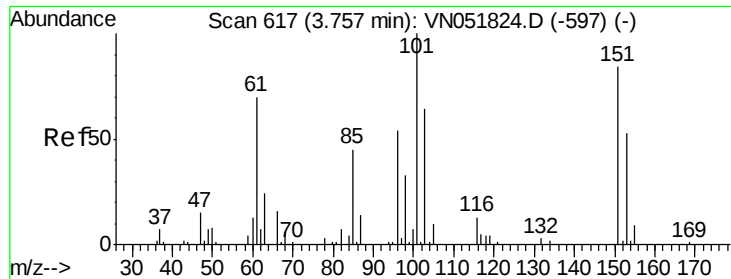


#8

Diethyl Ether
 Concen: 20.19 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051837.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	79.6	20.7	186.5





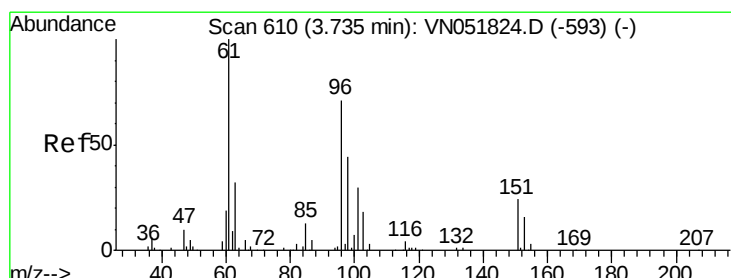
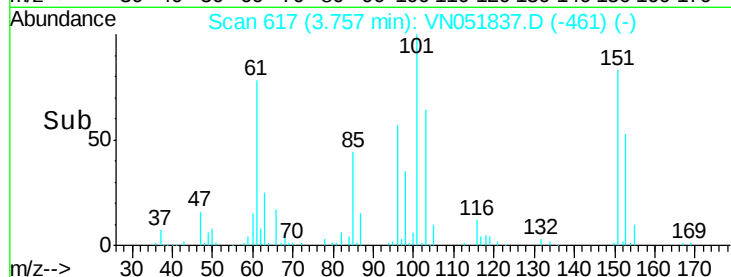
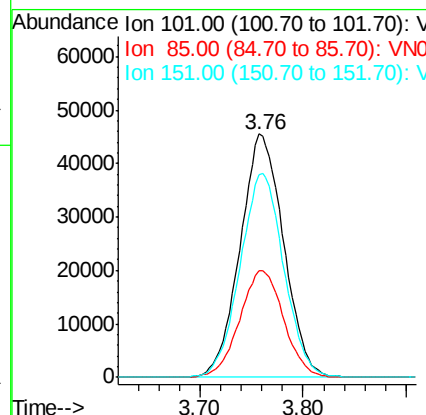
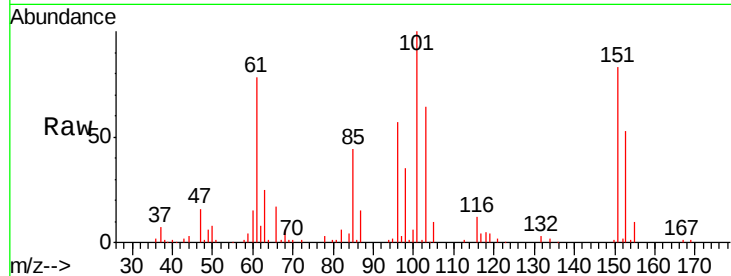
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.23 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp Lower	Resp Upper
101	100		
85	44.5	0.0	46.0
151	84.6	0.0	82.2

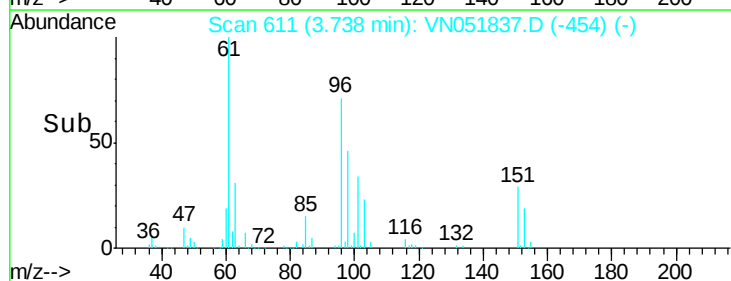
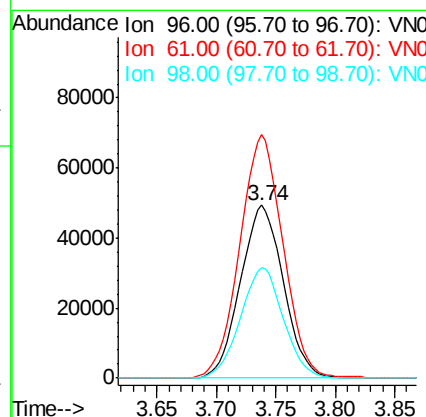
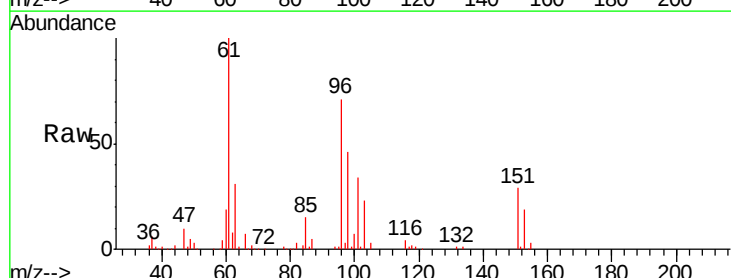
Manual Integrations
 APPROVED

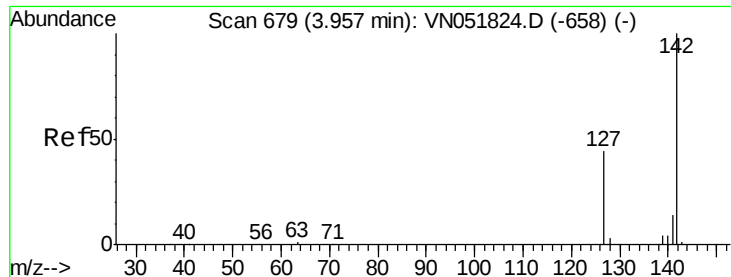
MMDadoda
 10/15/2018 11:28:03 AM



#10
 1,1-Dichloroethene
 Concen: 20.36 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	140.9	133.0	199.6
98	64.1	52.6	78.8





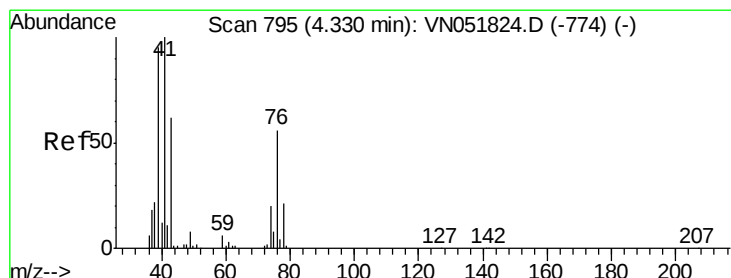
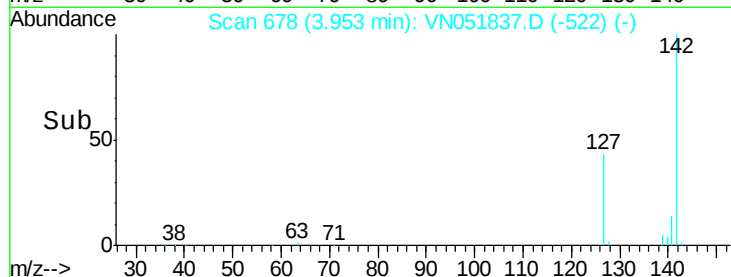
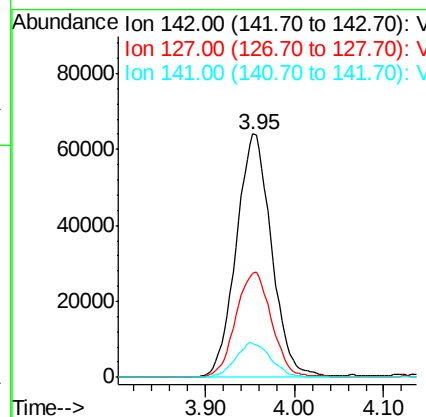
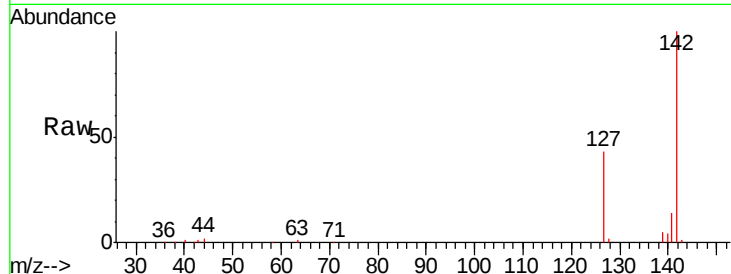
#11
Methyl Iodide
Concen: 19.98 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.5	19.7	59.0
141	13.8	6.3	18.9

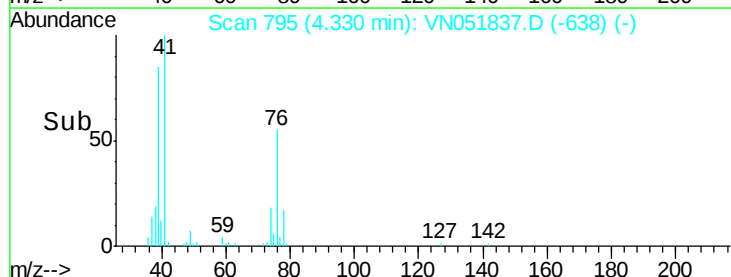
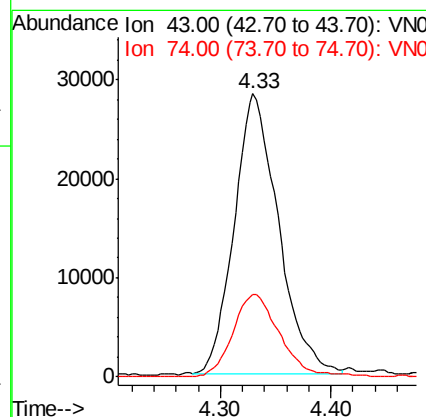
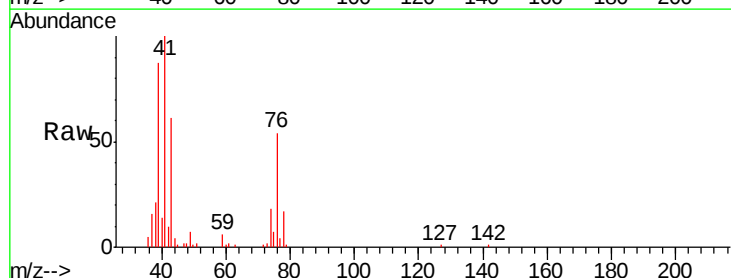
Manual Integrations
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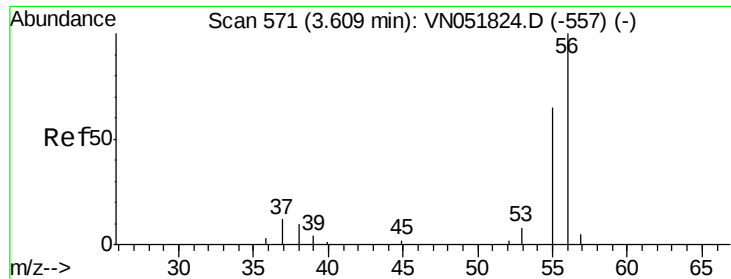
MMDadoda
10/15/2018 11:28:03 AM



#12
Methyl Acetate
Concen: 20.82 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	29.2	21.8	32.6





#13

Acrolein

Concen: 96.27 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 23878

Ion Ratio Lower Upper

56 100

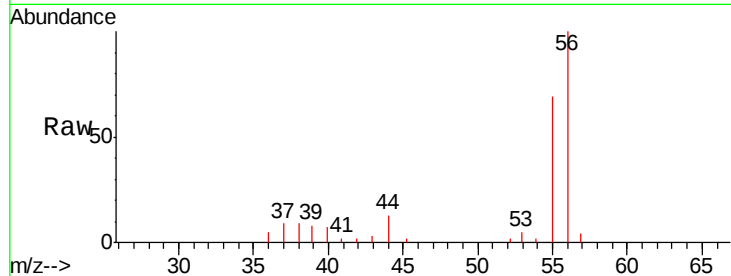
55 64.0 64.0 96.0

Manual Integrations

APPROVED

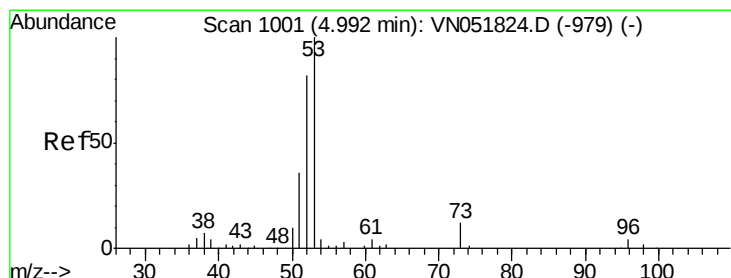
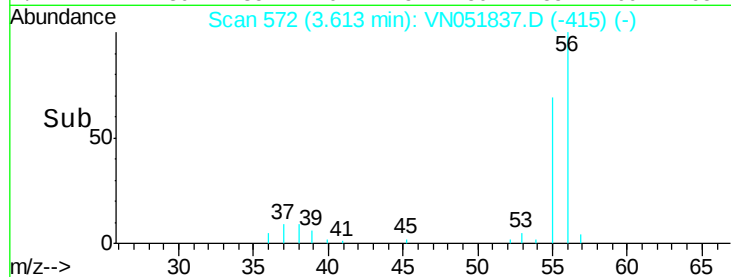
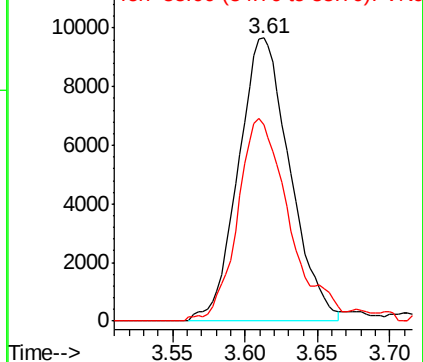
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 102.70 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

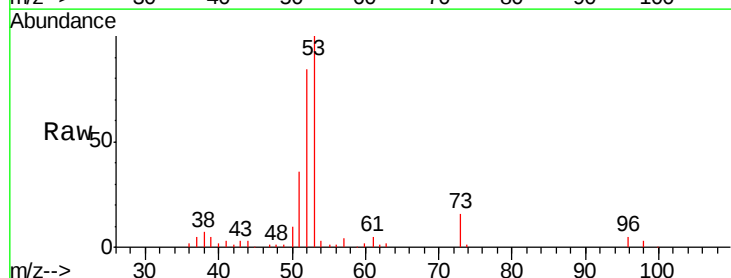
Tgt Ion: 53 Resp: 172780

Ion Ratio Lower Upper

53 100

52 81.5 18.3 54.8#

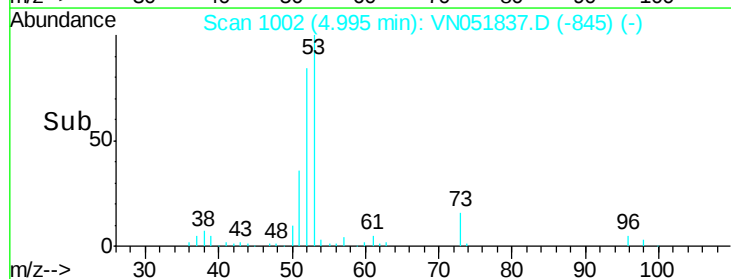
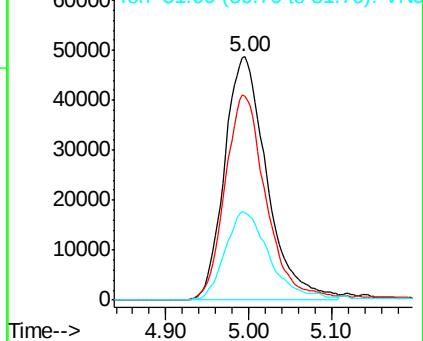
51 37.3 19.7 59.1

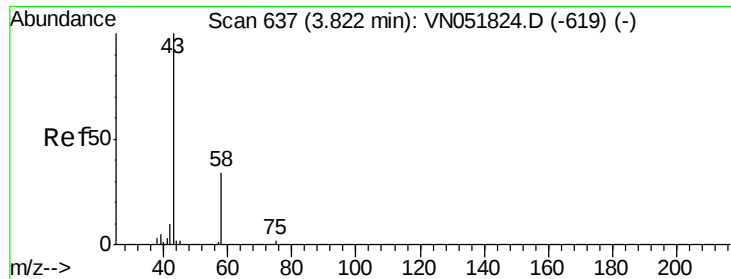


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 98.95 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 58 Resp: 41155

Ion Ratio Lower Upper

58 100

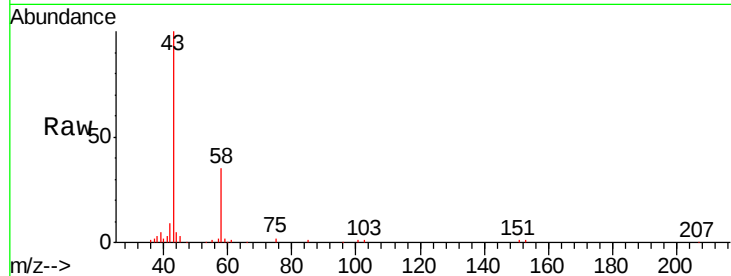
43 284.8 232.2 348.2

Manual Integrations

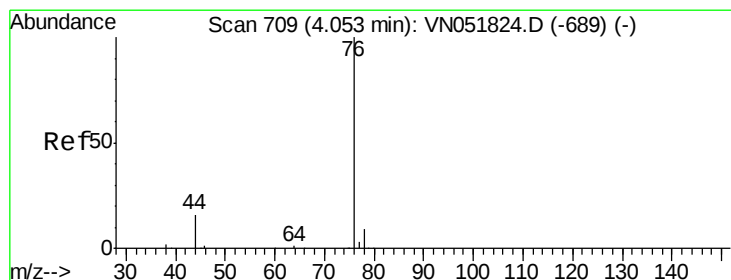
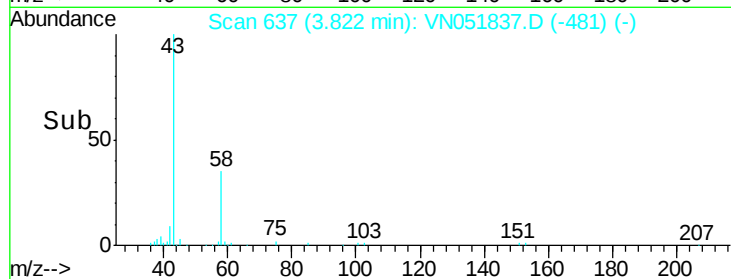
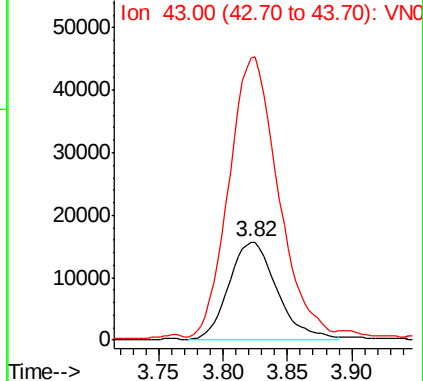
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Abundance Ion 58.00 (57.70 to 58.70): VN051824.D (-619) (-)



#16

Carbon Disulfide

Concen: 18.79 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051837.D

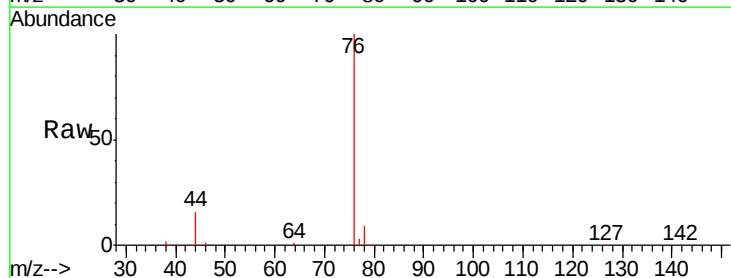
Acq: 12 Oct 2018 17:04

Tgt Ion: 76 Resp: 299198

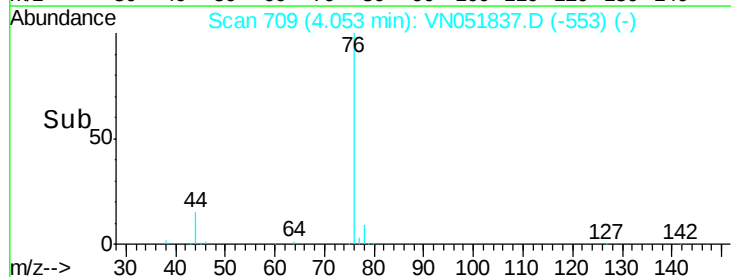
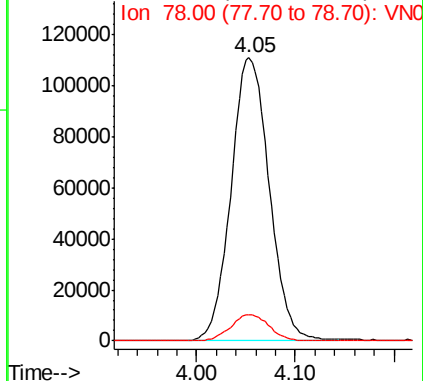
Ion Ratio Lower Upper

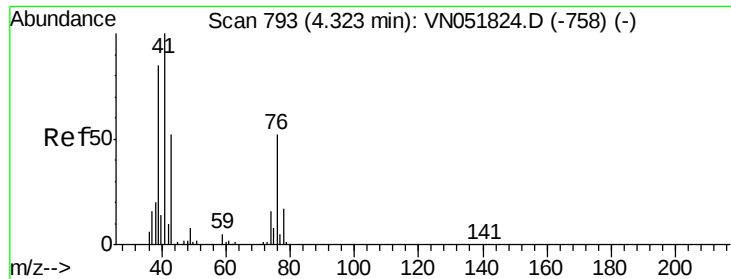
76 100

78 9.1 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN051824.D (-689) (-)





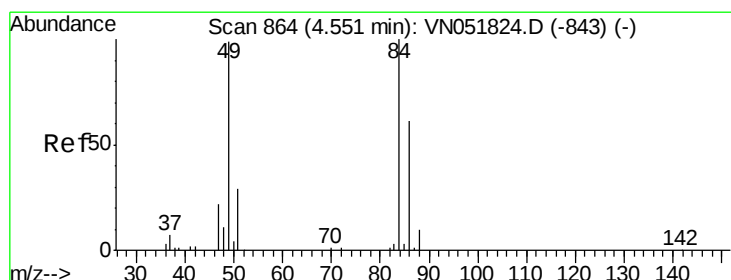
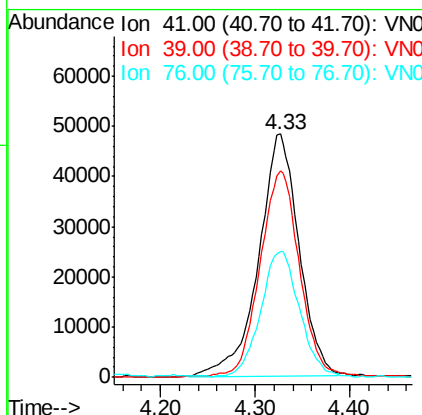
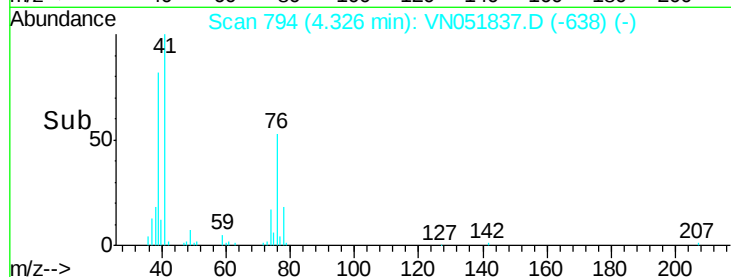
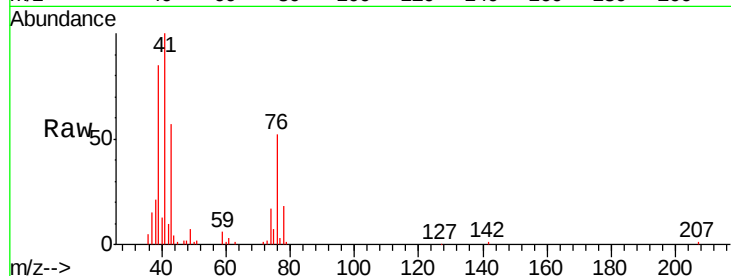
#17
 Allyl chloride
 Concen: 19.89 ug/l
 RT: 4.33 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
41	100		
39	84.5	32.6	97.8
76	51.3	20.2	60.5

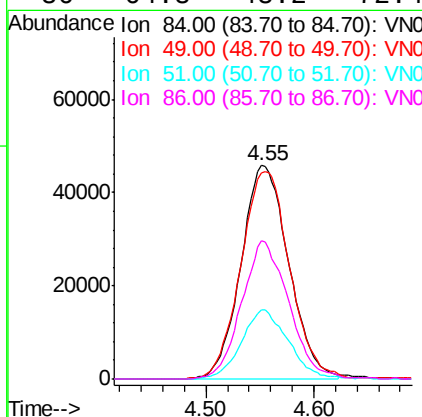
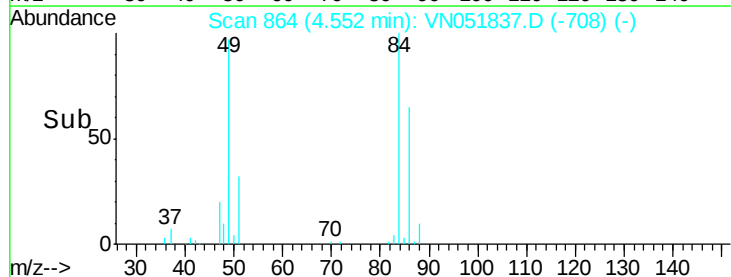
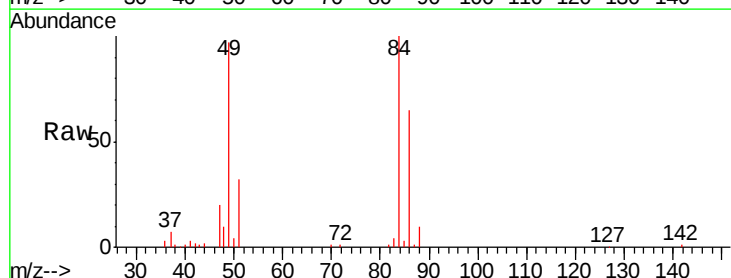
Manual Integrations
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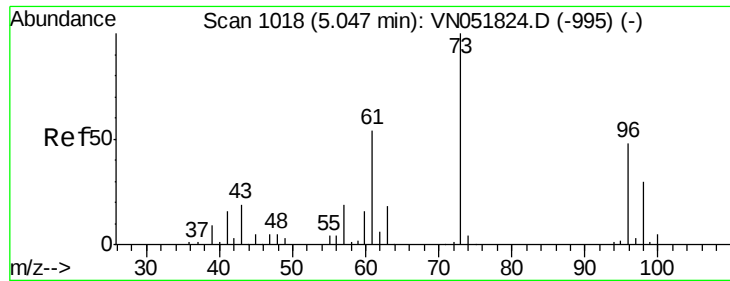
MMDadoda
 10/15/2018 11:28:03 AM



#18
 Methylene Chloride
 Concen: 20.75 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
84	100		
49	96.3	91.6	137.4
51	32.2	29.8	44.6
86	64.8	48.2	72.4





#19

trans-1,2-Dichloroethene

Concen: 20.17 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

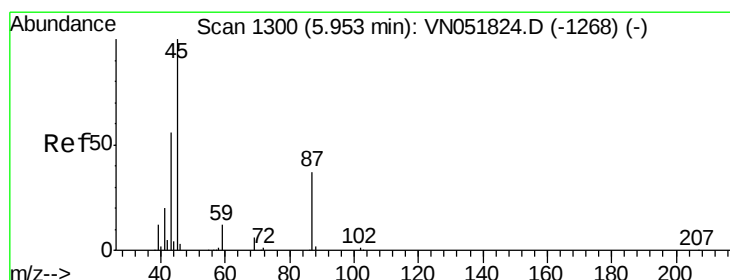
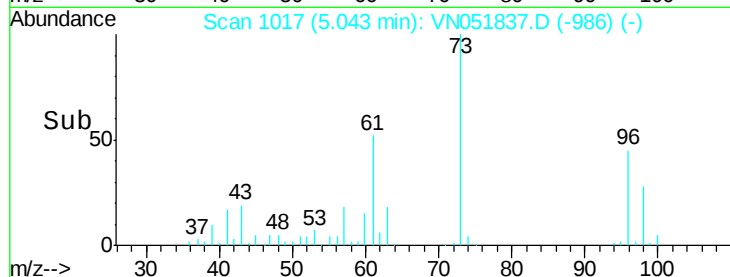
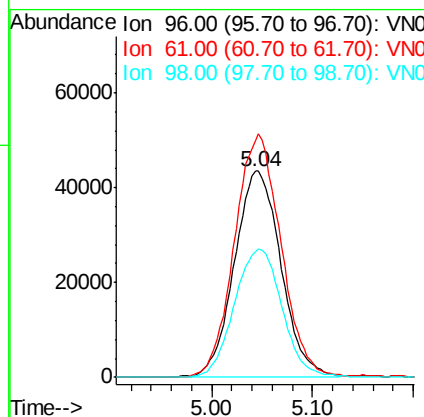
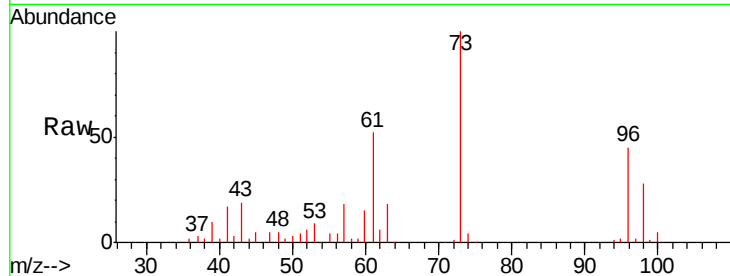
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	96	Resp:	139616
Ion	Ratio	Lower	Upper
96	100		
61	114.9	112.3	168.5
98	61.0	47.1	70.7

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#20

Diisopropyl ether

Concen: 20.35 ug/l

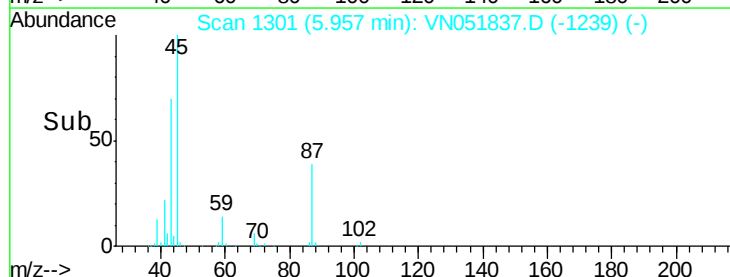
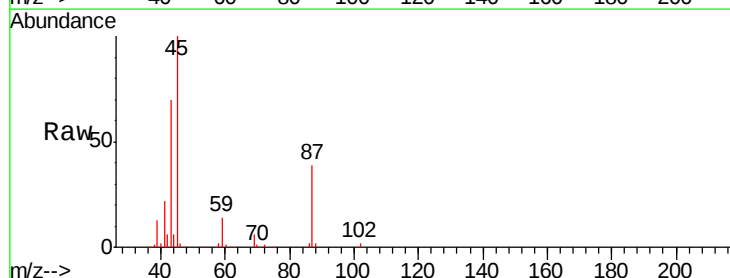
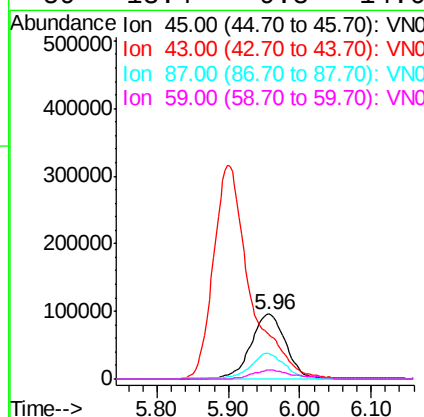
RT: 5.96 min Scan# 1301

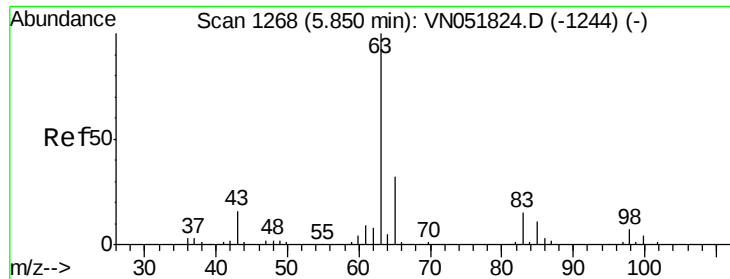
Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Tgt Ion:	45	Resp:	326236
Ion	Ratio	Lower	Upper
45	100		
43	67.4	62.1	93.1
87	38.2	19.9	29.9
59	13.4	9.8	14.6





#21

1,1-Dichloroethane

Concen: 20.57 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

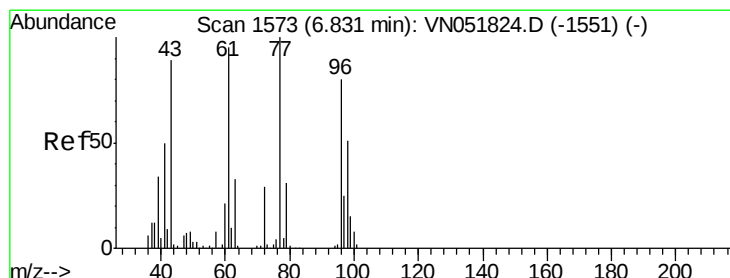
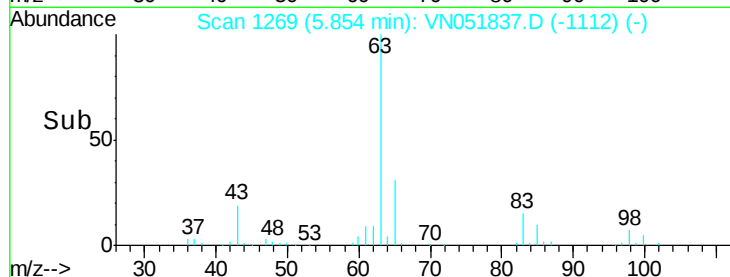
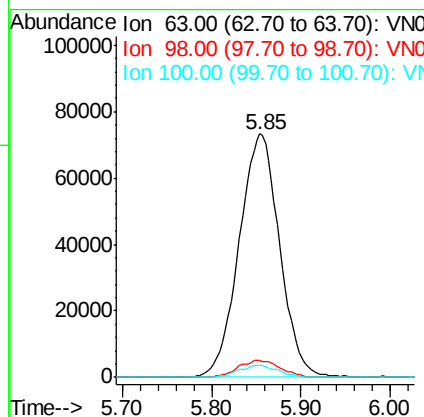
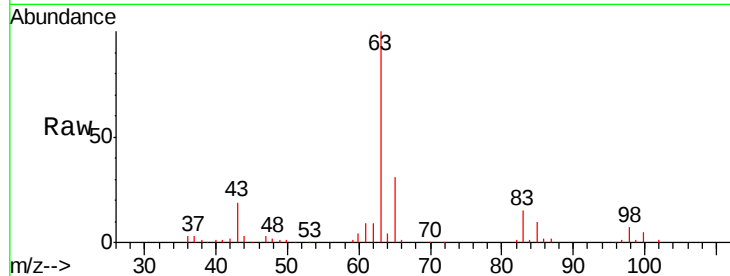
ClientSampleId :

VSTDCCC050EC

Tgt Ion	Ratio	Resp Lower	Upper
63	100		
98	7.0	4.1	12.3
100	4.9	1.6	4.7#

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#22

cis-1,2-Dichloroethene

Concen: 20.03 ug/l

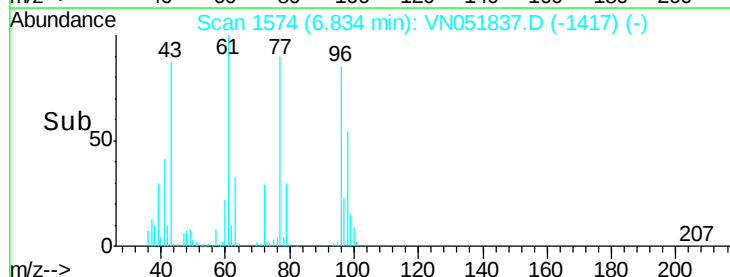
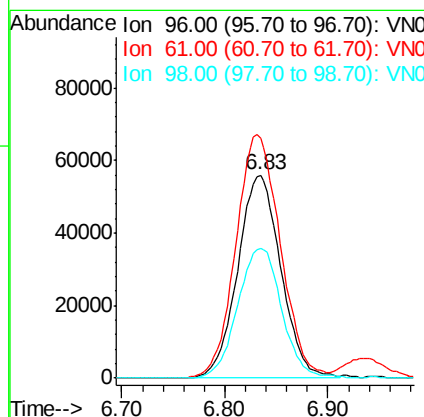
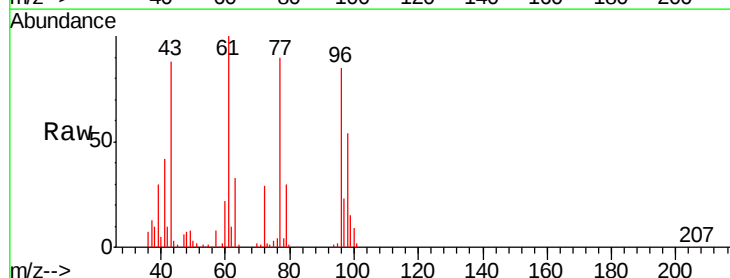
RT: 6.83 min Scan# 1574

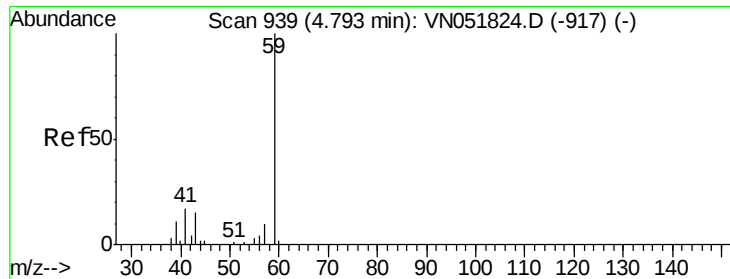
Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	123.8	124.5	186.7#
98	65.1	51.9	77.9





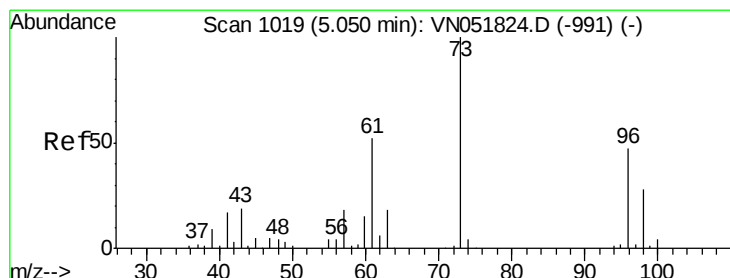
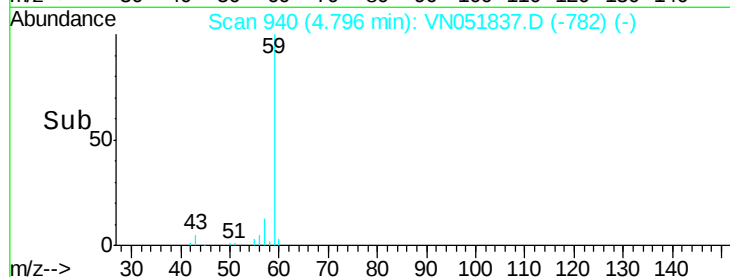
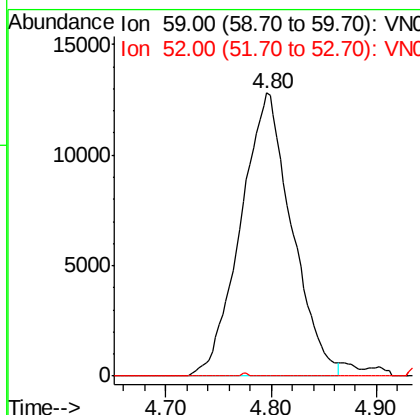
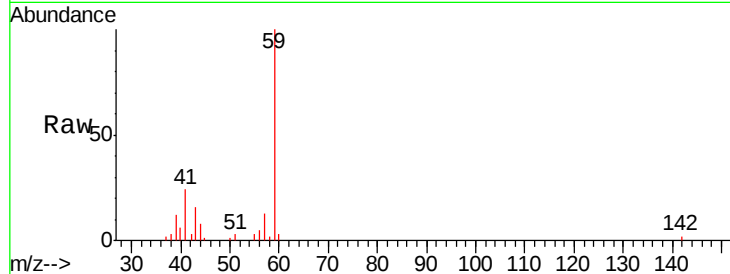
#23
 tert-Butyl Alcohol
 Concen: 97.56 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.01 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 59 Resp: 43228
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.0 0.0#

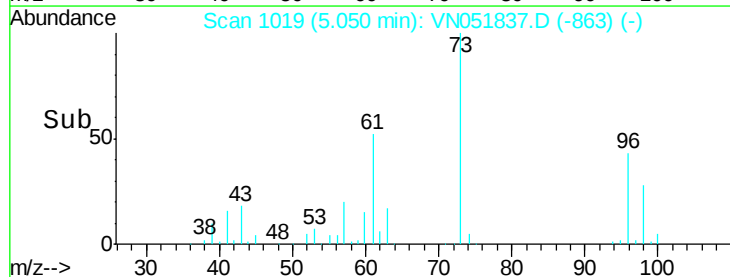
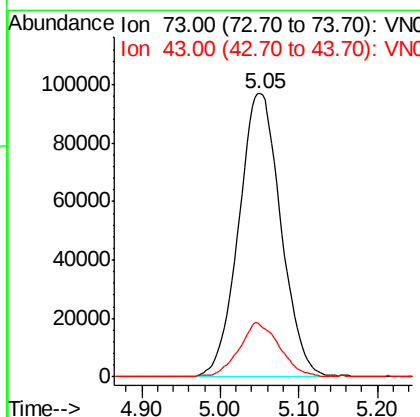
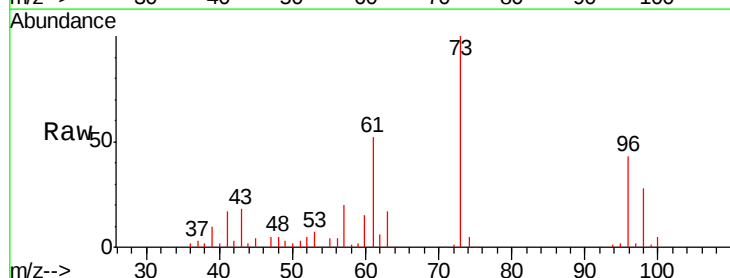
Manual Integrations
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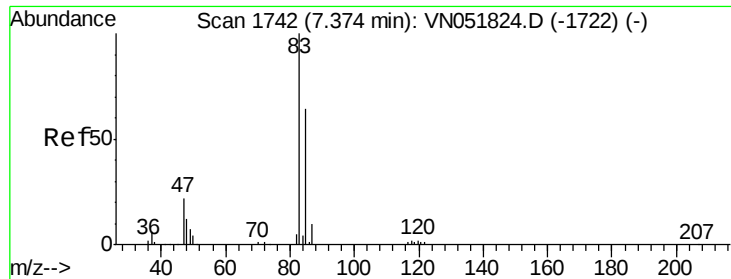
MMDadoda
 10/15/2018 11:28:03 AM



#24
 Methyl tert-Butyl Ether
 Concen: 20.93 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion: 73 Resp: 365521
 Ion Ratio Lower Upper
 73 100
 43 17.9 5.4 8.0#





#25

Chloroform

Concen: 20.30 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 269741

Ion Ratio Lower Upper

83 100

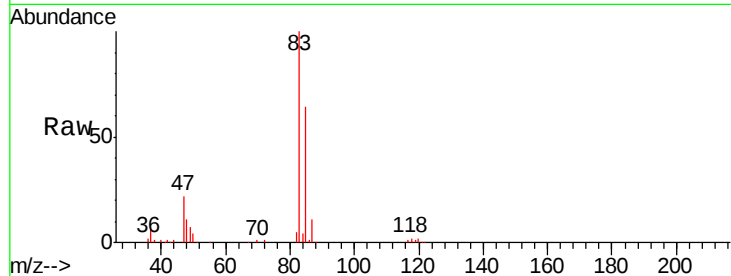
85 64.3 54.6 82.0

Manual Integrations

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Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

7.37

120000

100000

80000

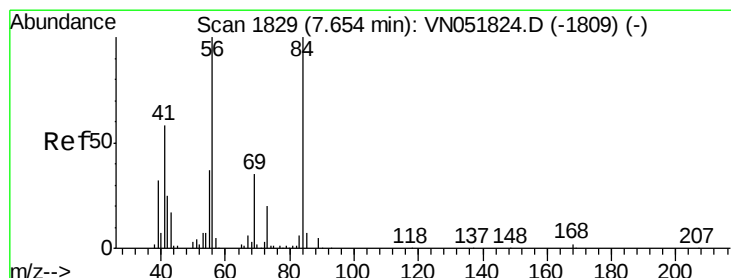
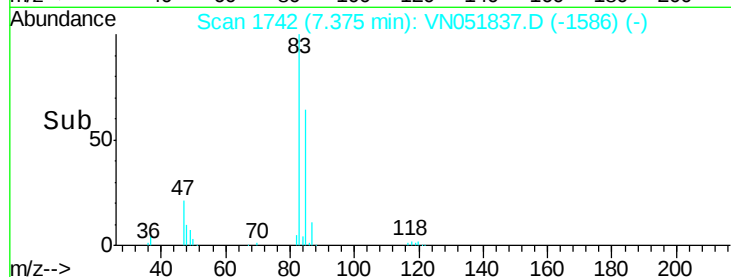
60000

40000

20000

0

Time-->



#26

Cyclohexane

Concen: 19.42 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

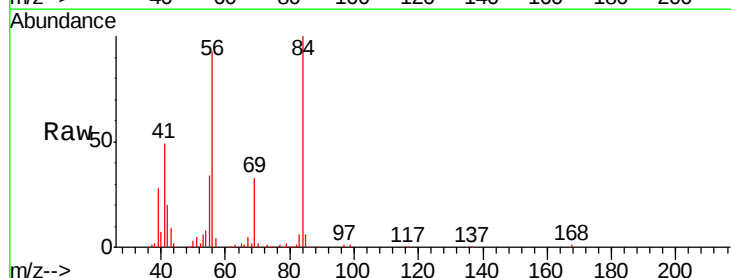
Tgt Ion: 56 Resp: 184356

Ion Ratio Lower Upper

56 100

89 0.2 1.5 2.3#

84 106.0 64.2 96.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

120000

100000

80000

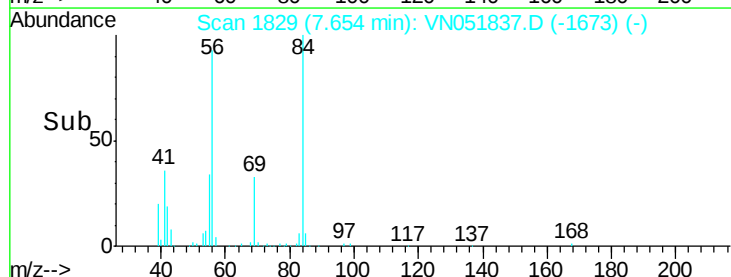
60000

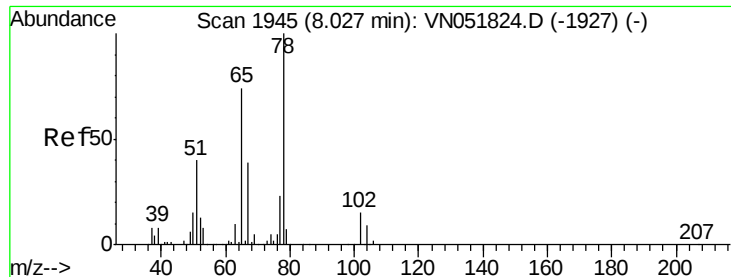
40000

20000

0

Time-->





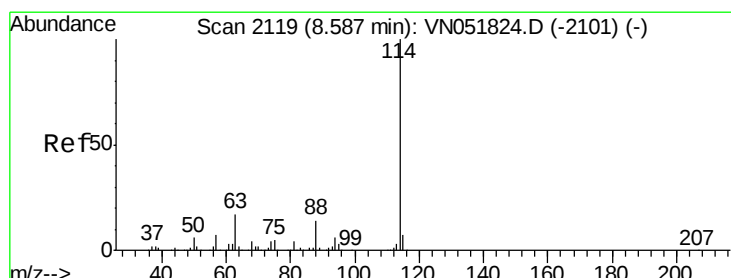
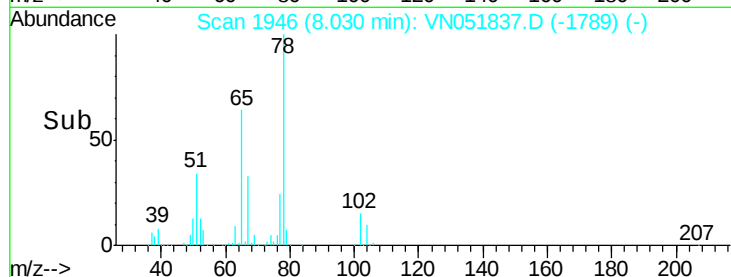
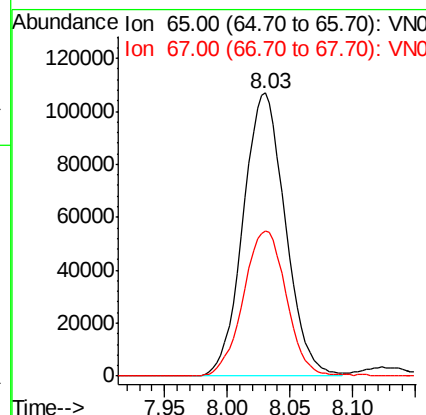
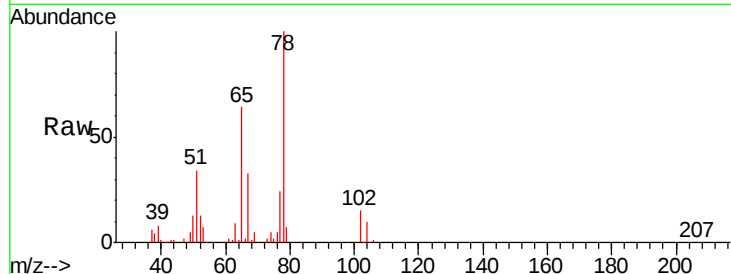
#27
 1,2-Dichloroethane-d4
 Concen: 19.42 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.2	41.8	62.8

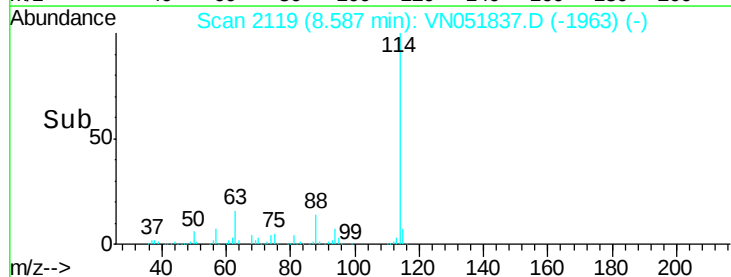
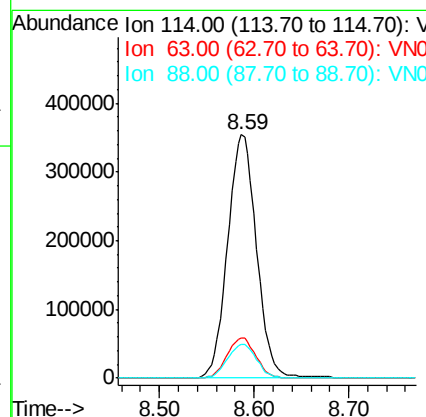
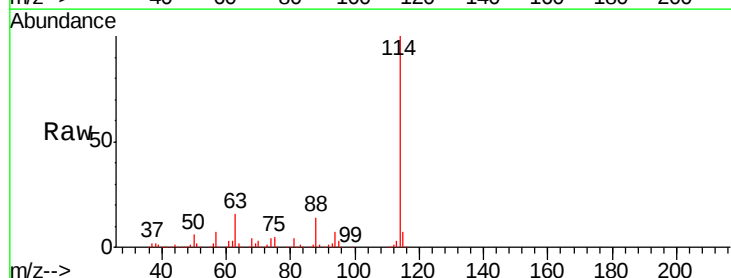
Manual Integrations
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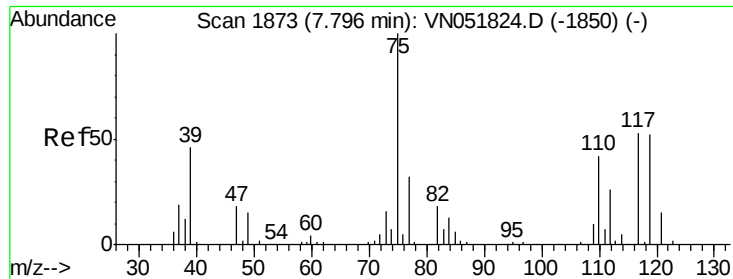
MMDadoda
 10/15/2018 11:28:03 AM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	16.5	16.2	24.2
88	14.0	12.2	18.4





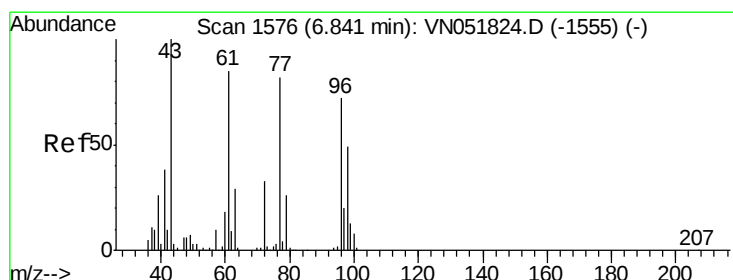
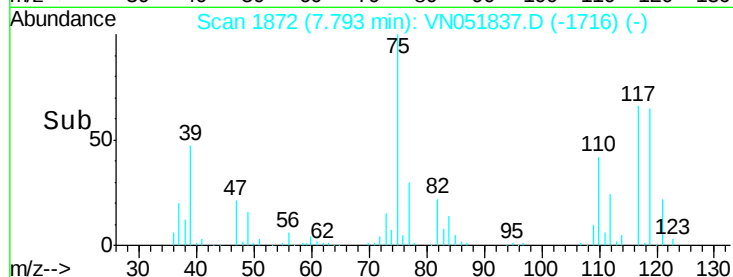
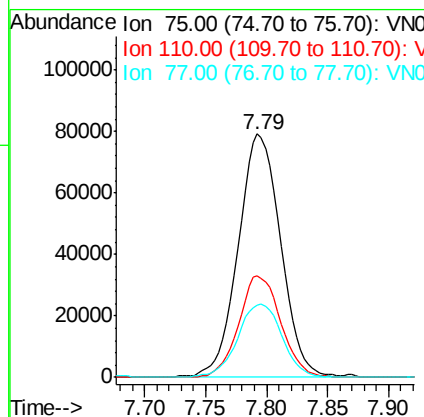
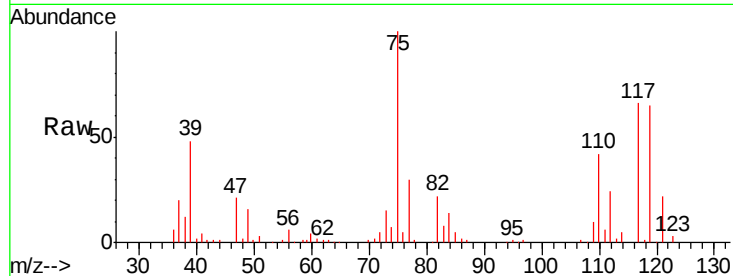
#29
 1,1-Dichloropropene
 Concen: 19.58 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
75	100		
110	41.6	0.0	70.8
77	31.7	0.0	61.6

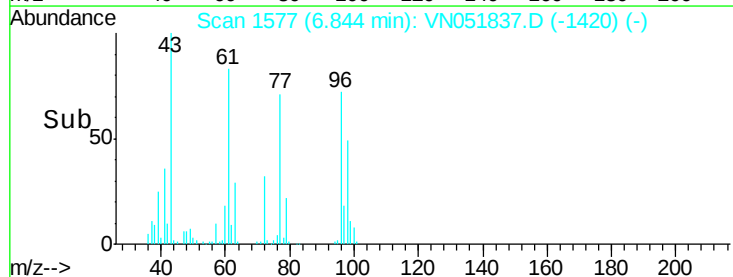
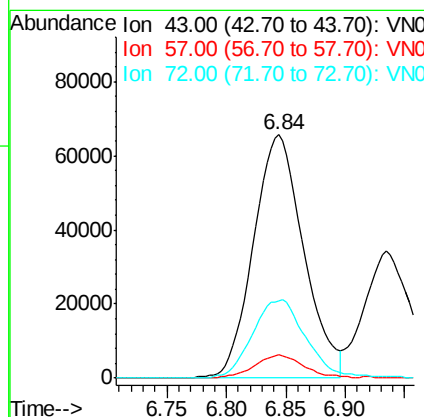
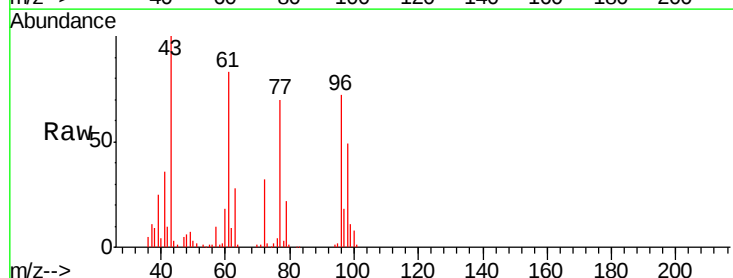
Manual Integrations
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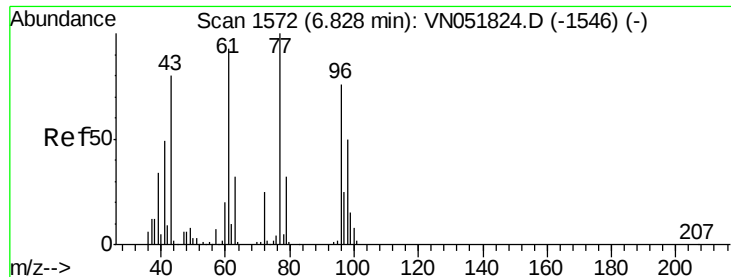
MMDadoda
 10/15/2018 11:28:03 AM



#30
 2-Butanone
 Concen: 94.20 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
43	100		
57	9.4	4.5	6.7#
72	34.4	21.5	32.3#





#31

2,2-Dichloropropane

Concen: 17.77 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 77 Resp: 202464

Ion Ratio Lower Upper

77 100

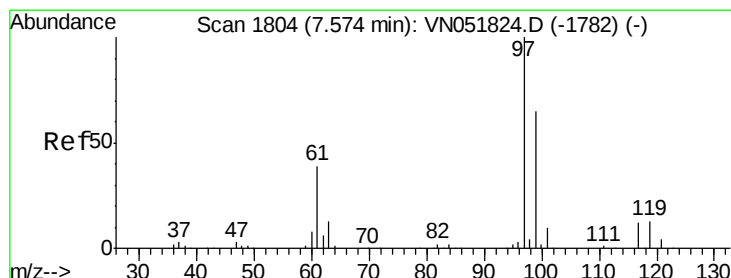
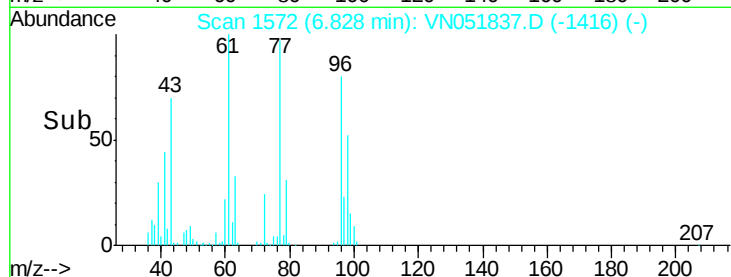
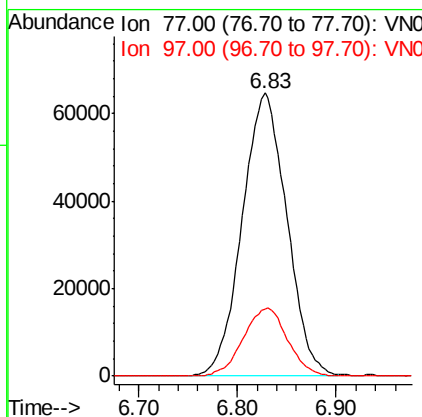
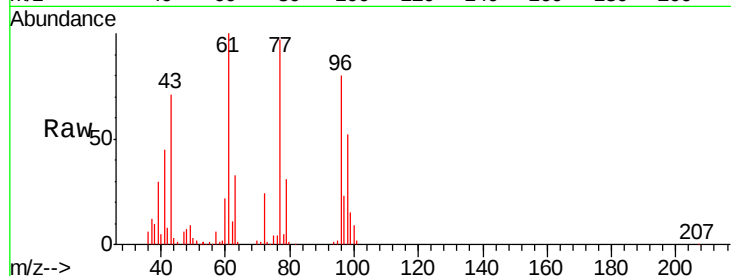
97 23.8 12.0 18.0#

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 19.81 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

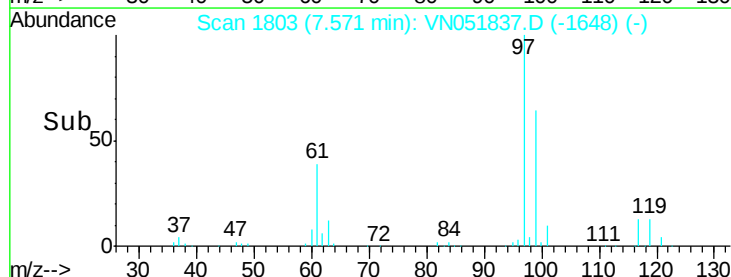
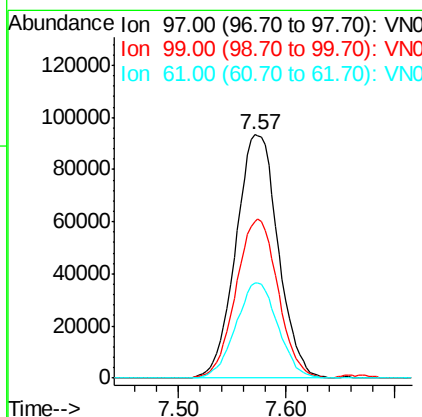
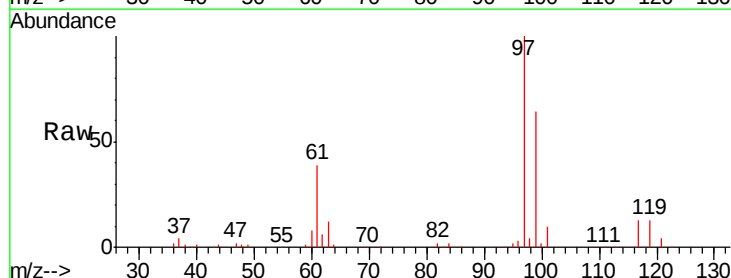
Tgt Ion: 97 Resp: 254356

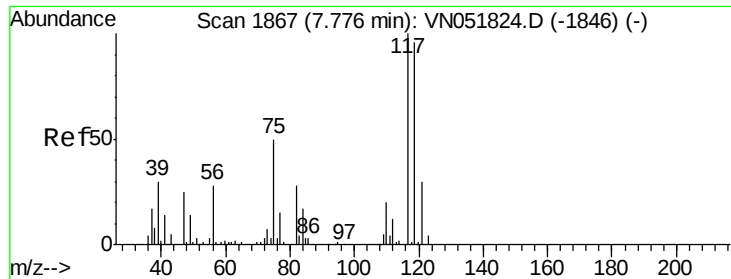
Ion Ratio Lower Upper

97 100

99 64.8 51.6 77.4

61 38.8 37.4 56.0





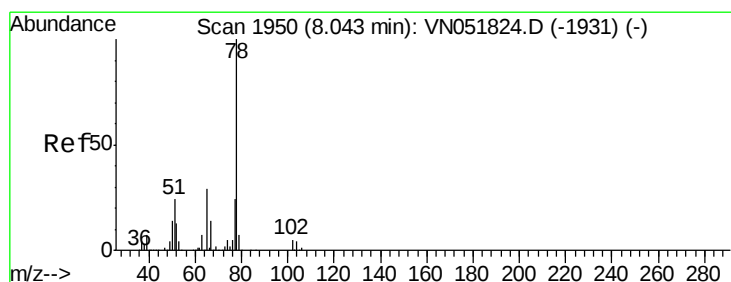
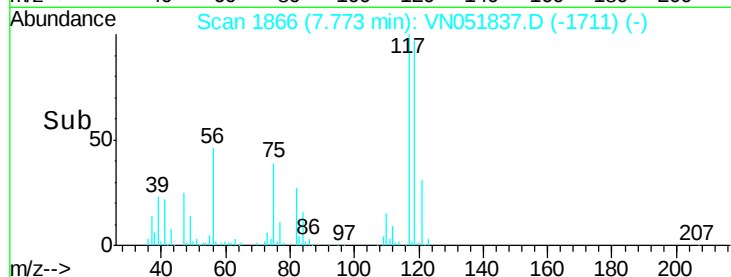
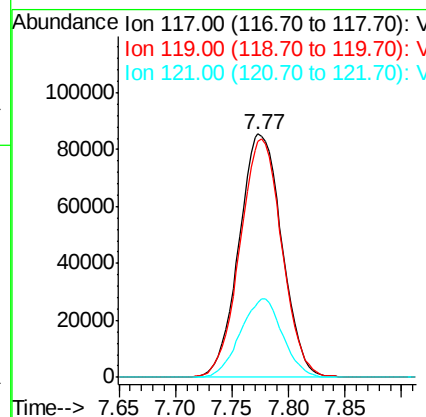
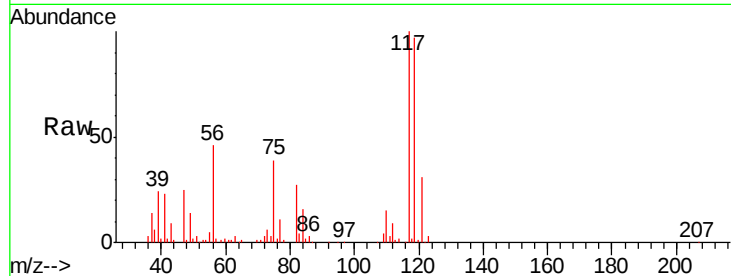
#33
Carbon Tetrachloride
Concen: 19.36 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	85.1	127.7
121	30.9	24.2	36.2

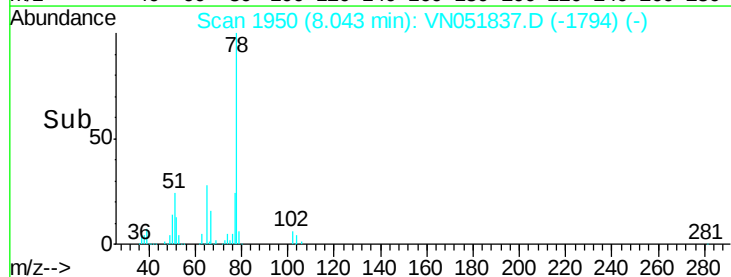
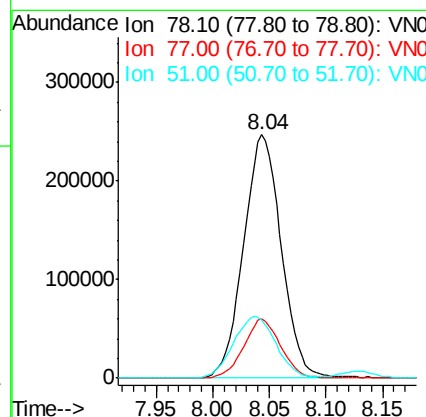
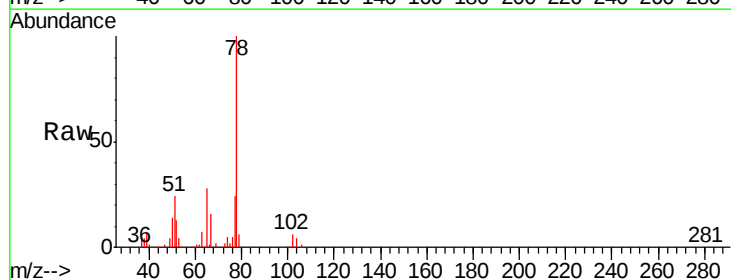
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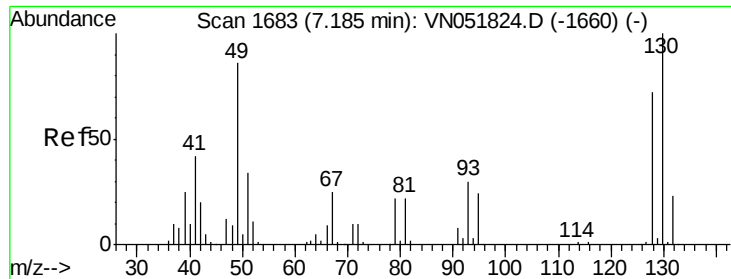
MMDadoda
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#34
Benzene
Concen: 20.03 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.8	28.2
51	23.7	46.2	69.4#





#35

Methacrylonitrile

Concen: 18.08 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 41 Resp: 48063

Ion Ratio Lower Upper

41 100

39 55.5 22.6 67.7

67 63.0 28.9 86.8

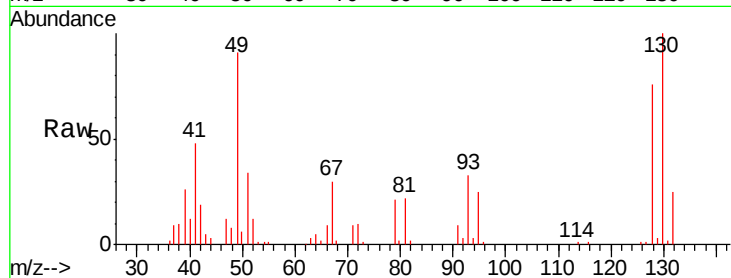
52 24.5 11.3 33.9

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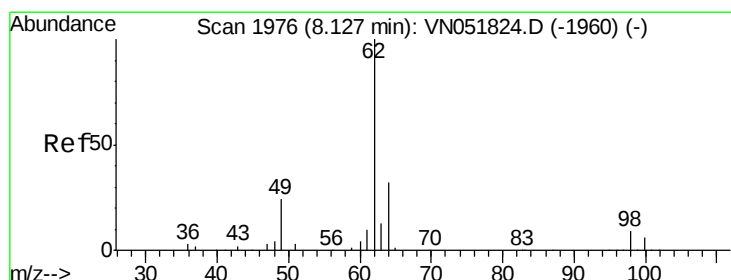
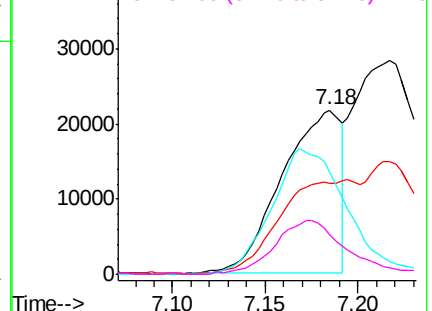
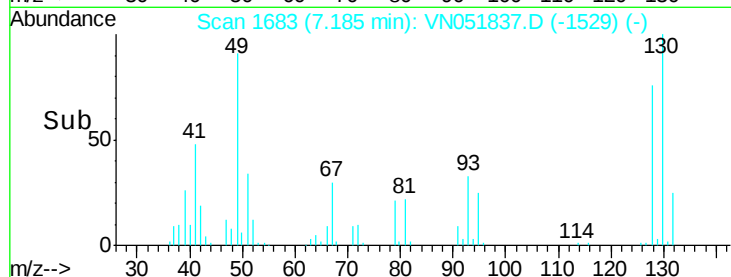


Abundance Ion 41.00 (40.70 to 41.70): VN0

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



#36

1,2-Dichloroethane

Concen: 20.04 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN051837.D

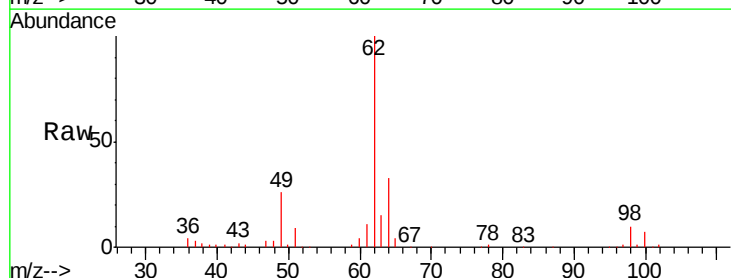
Acq: 12 Oct 2018 17:04

Tgt Ion: 62 Resp: 183881

Ion Ratio Lower Upper

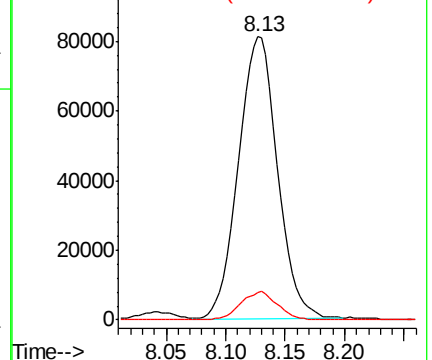
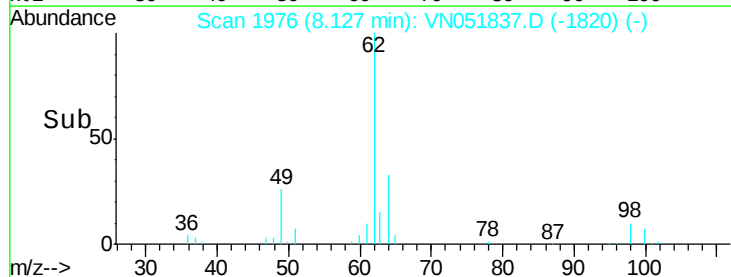
62 100

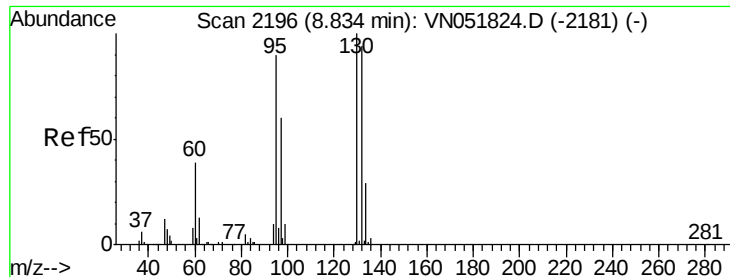
98 9.5 6.9 10.3



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#37

Trichloroethene

Concen: 19.81 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 130 Resp: 176150

Ion Ratio Lower Upper

130 100

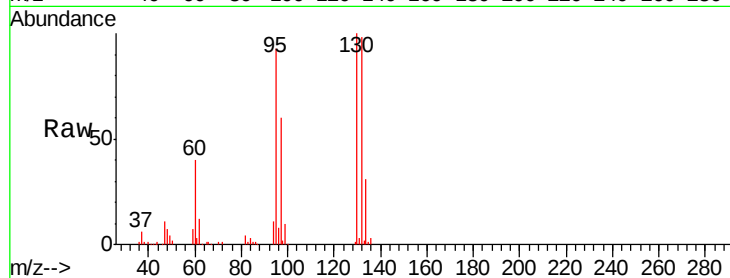
95 92.5 76.4 114.6

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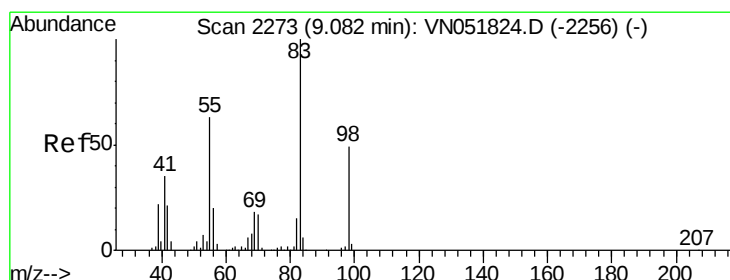
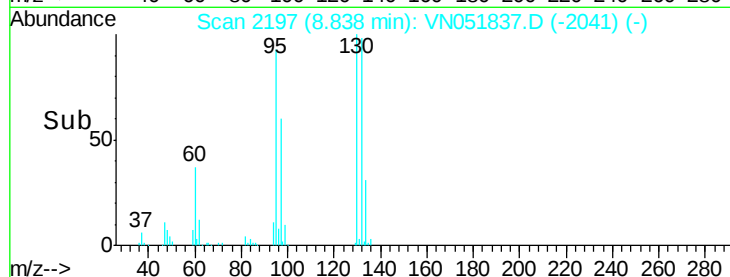
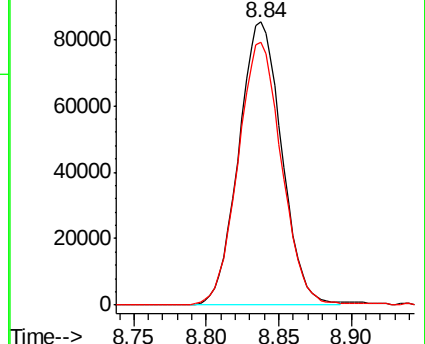
MMDadoda

10/15/2018 11:28:03 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VNO



#38

Methylcyclohexane

Concen: 18.72 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

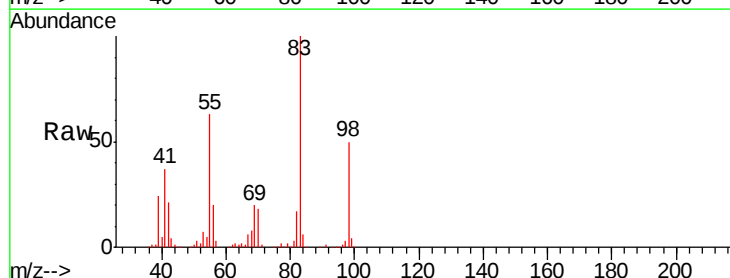
Tgt Ion: 83 Resp: 232507

Ion Ratio Lower Upper

83 100

55 62.4 43.0 129.2

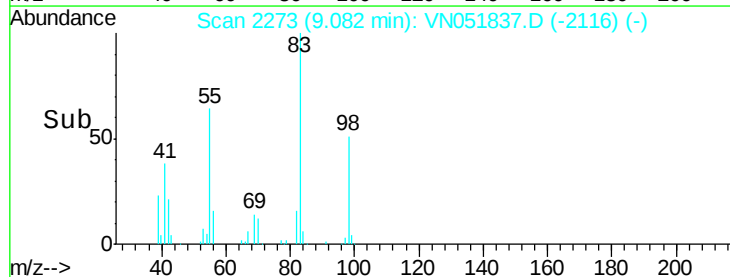
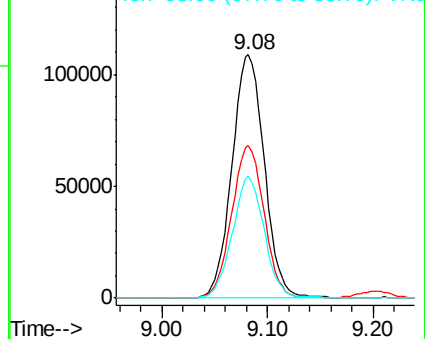
98 48.9 21.3 63.7

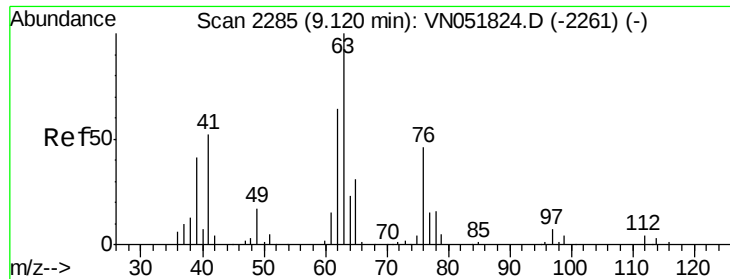


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





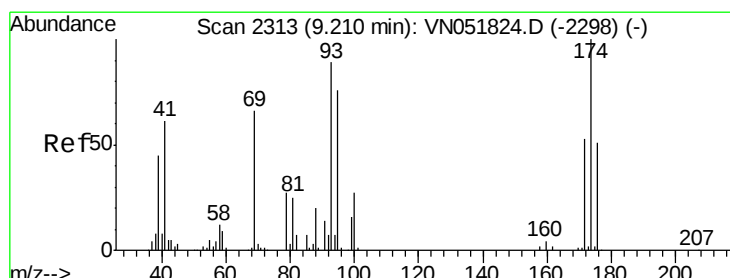
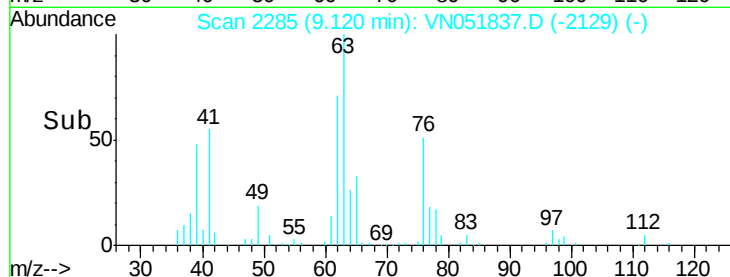
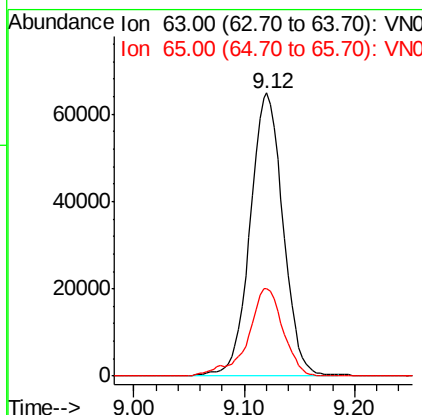
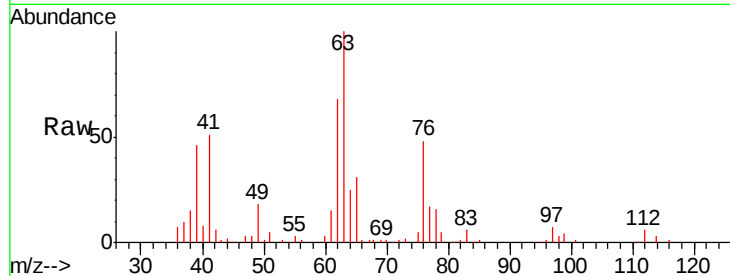
#39
 1,2-Dichloropropane
 Concen: 19.91 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 63 Resp: 134309
 Ion Ratio Lower Upper
 63 100
 65 31.2 23.2 34.8

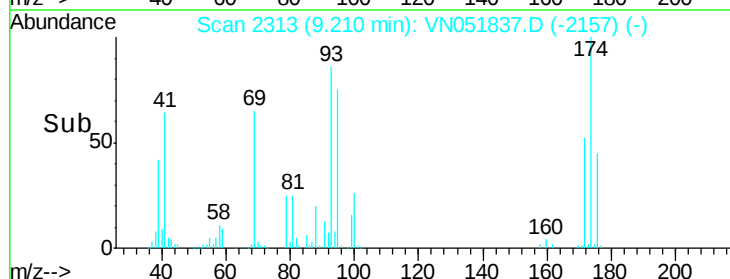
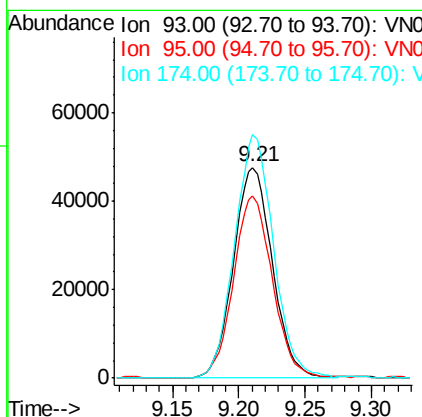
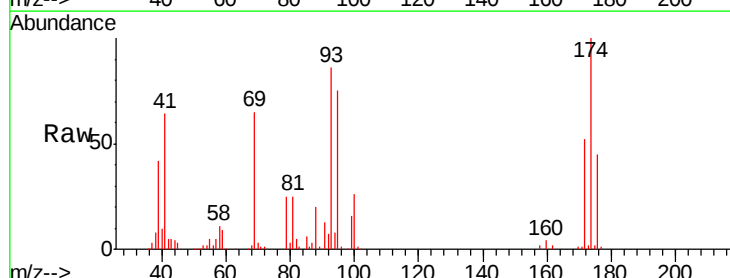
Manual Integrations
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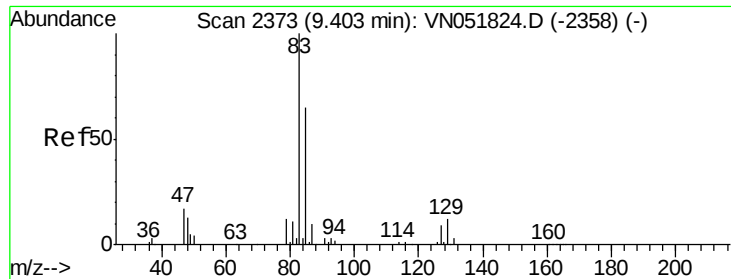
MMDadoda
 10/15/2018 11:28:03 AM



#40
 Dibromomethane
 Concen: 19.53 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion: 93 Resp: 97776
 Ion Ratio Lower Upper
 93 100
 95 86.4 0.0 162.0
 174 115.1 0.0 214.0





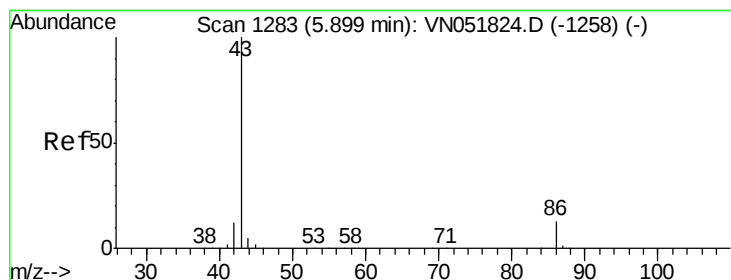
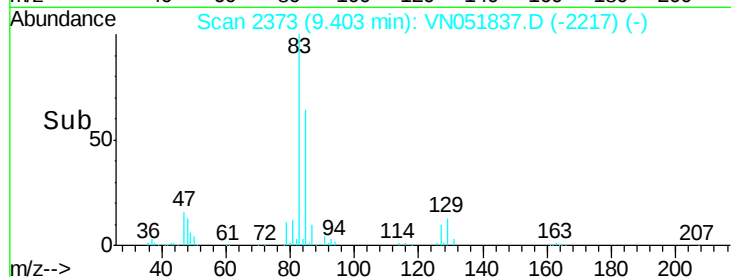
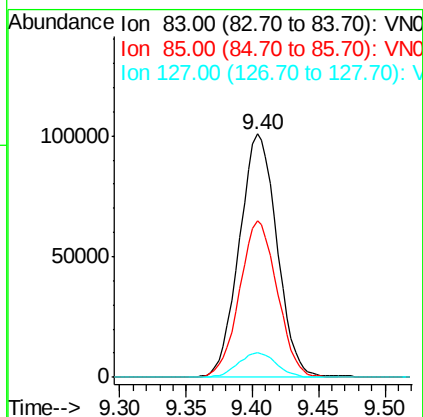
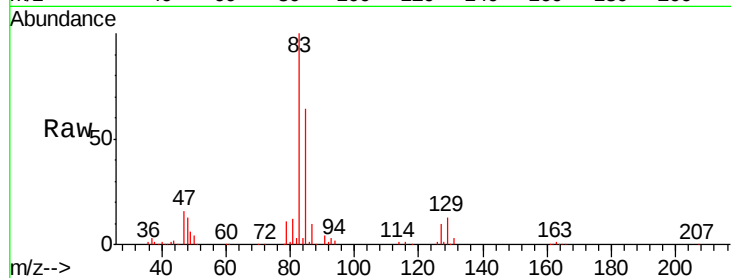
#41
Bromodichloromethane
Concen: 19.29 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	55.7	83.5
127	10.2	8.2	12.4

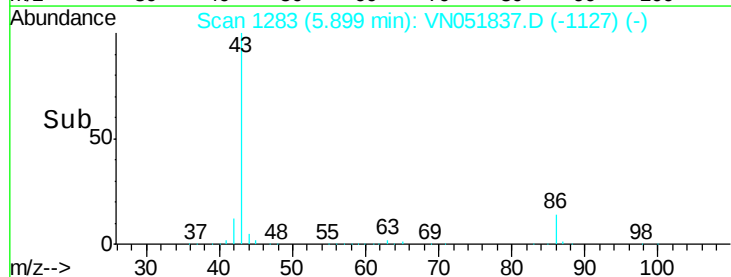
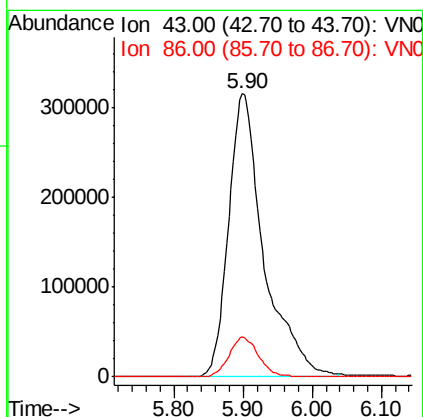
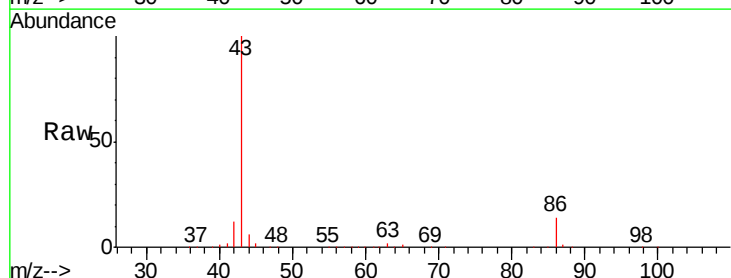
Manual Integrations
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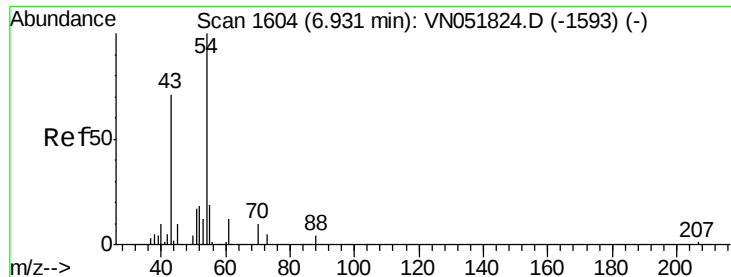
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#42
Vinyl Acetate
Concen: 98.28 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
43	100		
86	11.8	6.5	9.7#





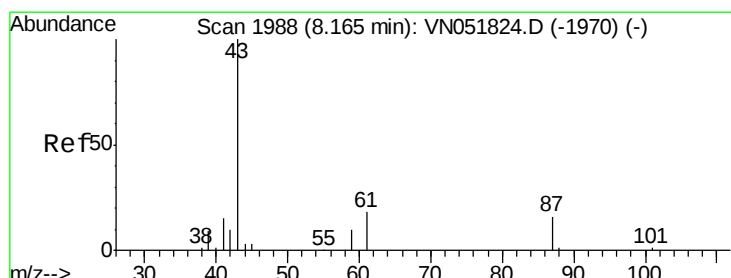
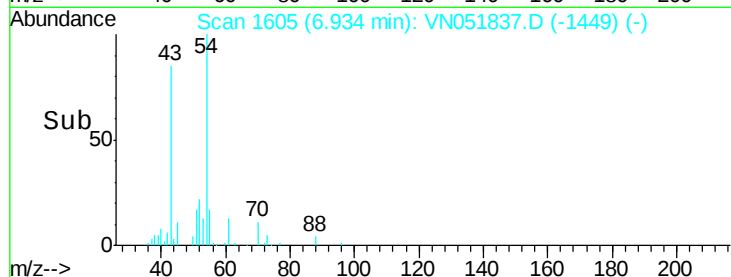
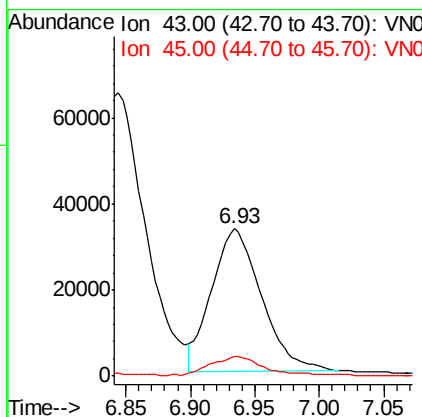
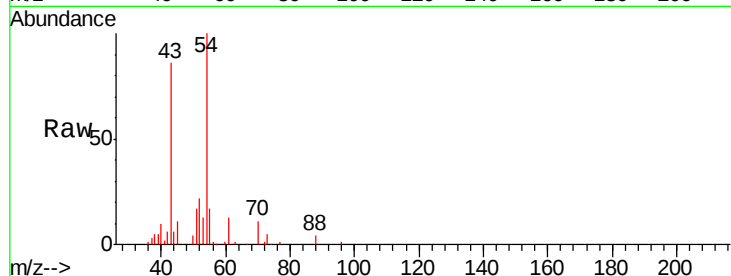
#43
Ethyl Acetate
Concen: 20.50 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 90079
Ion Ratio Lower Upper
43 100
45 12.4 11.0 16.6

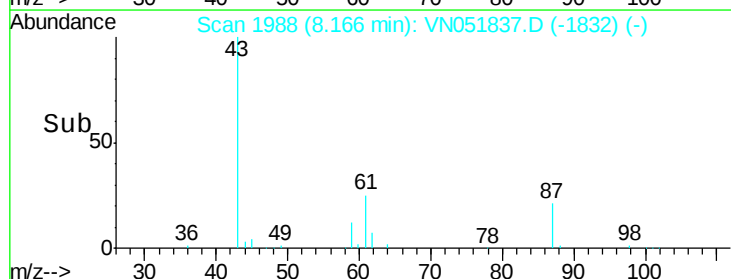
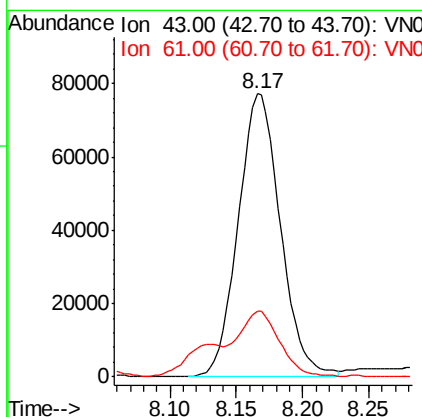
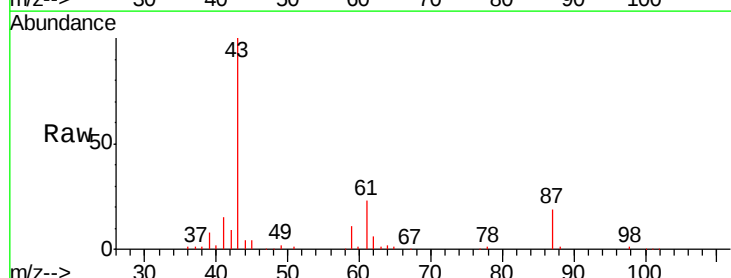
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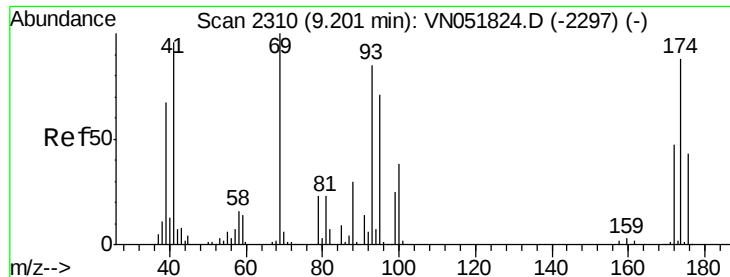
MMDadoda
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#44
Isopropyl Acetate
Concen: 19.37 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 43 Resp: 170024
Ion Ratio Lower Upper
43 100
61 22.4 15.9 23.9





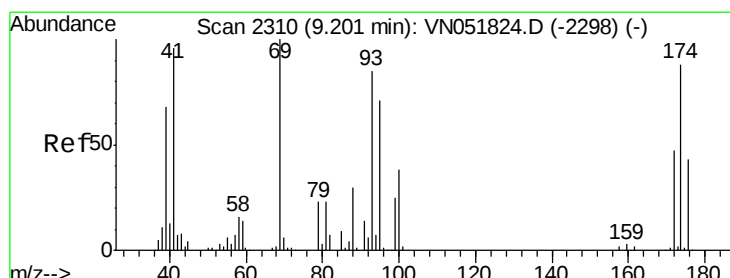
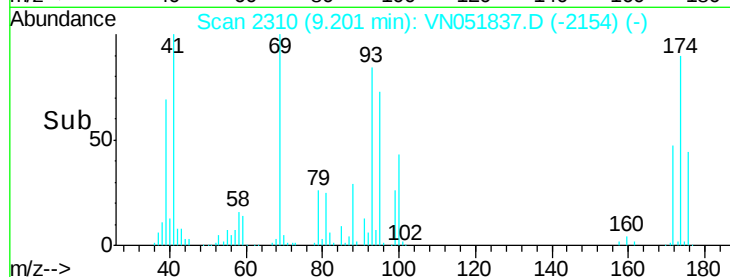
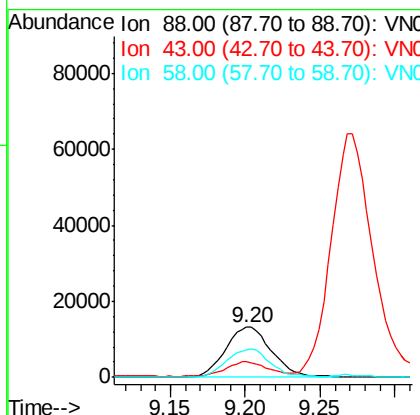
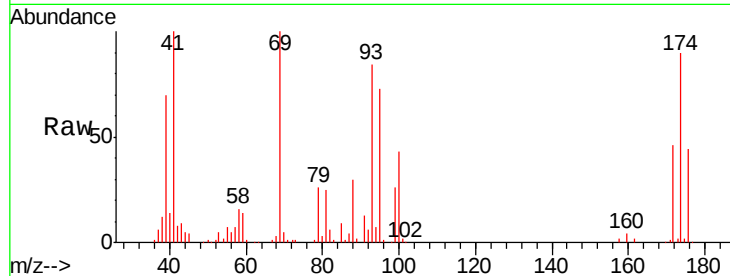
#45
 1,4-Dioxane
 Concen: 405.41 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
88	100		
43	24.0	26.2	39.2#
58	53.2	65.6	98.4#

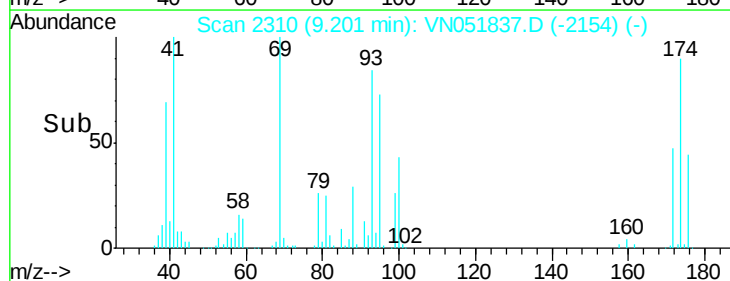
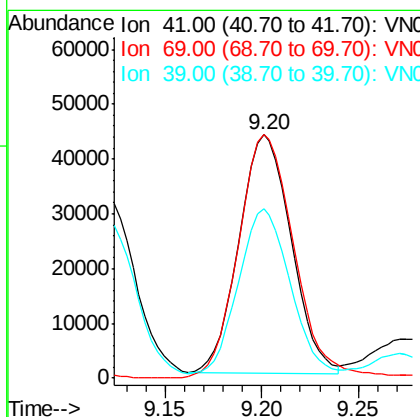
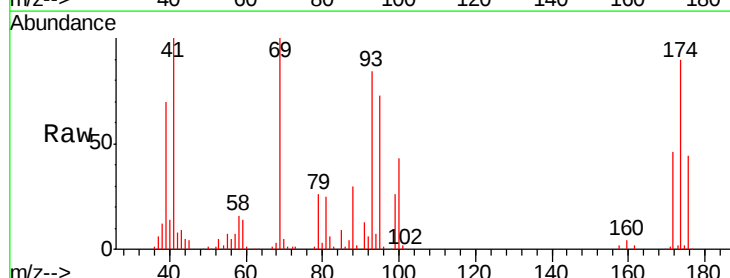
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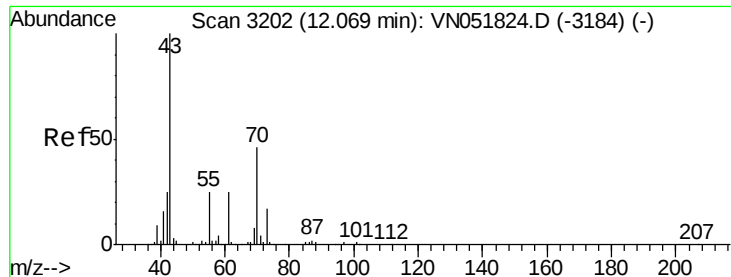
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#46
 Methyl methacrylate
 Concen: 20.11 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
41	100		
69	101.5	40.7	122.1
39	69.5	27.3	81.9





#47

n-amyl Acetate

Concen: 17.62 ug/l m

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 129493

Ion Ratio Lower Upper

43 100

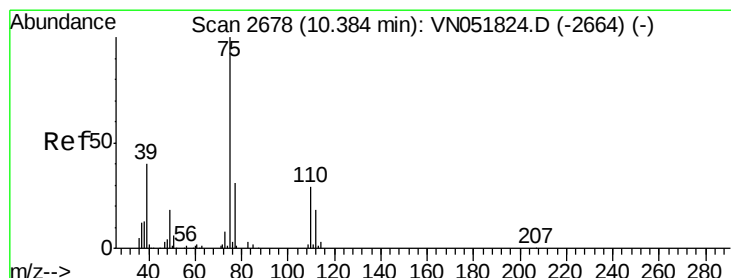
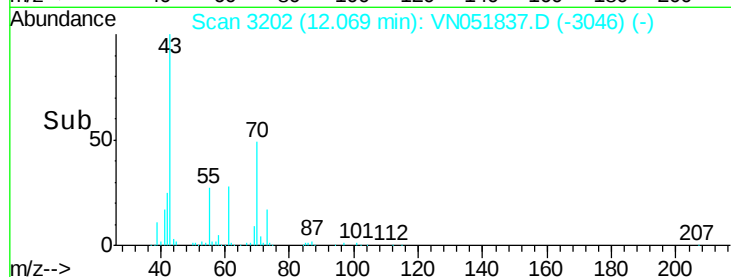
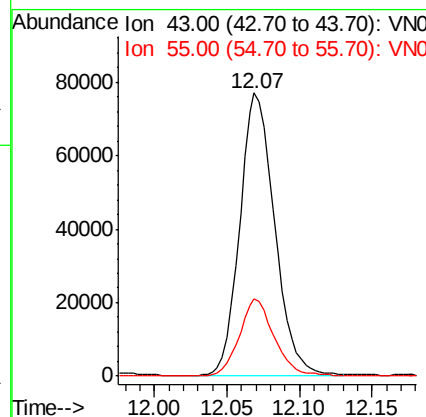
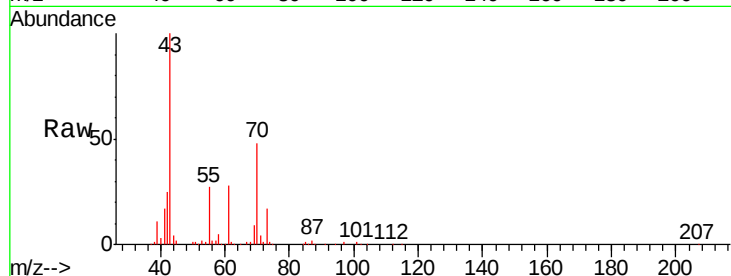
55 0.0 12.2 18.4#

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#48

t-1,3-Dichloropropene

Concen: 18.52 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051837.D

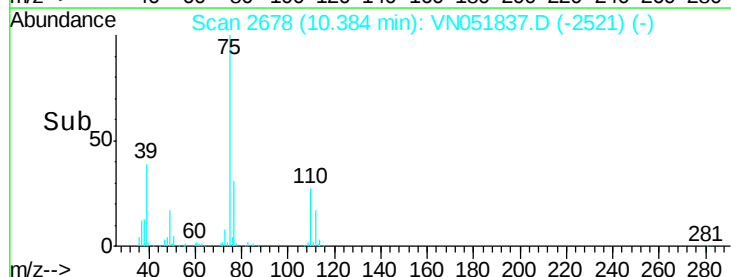
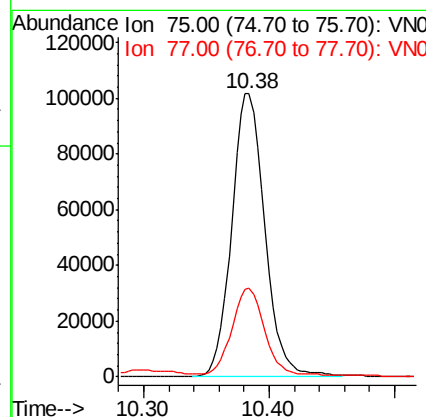
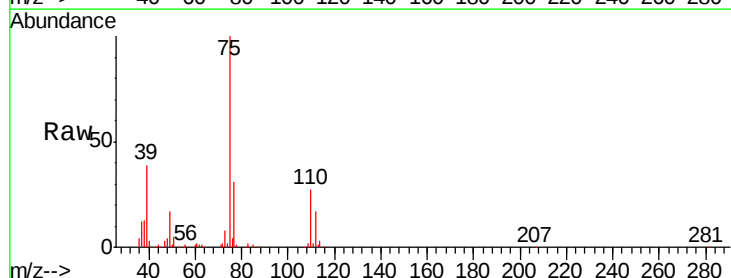
Acq: 12 Oct 2018 17:04

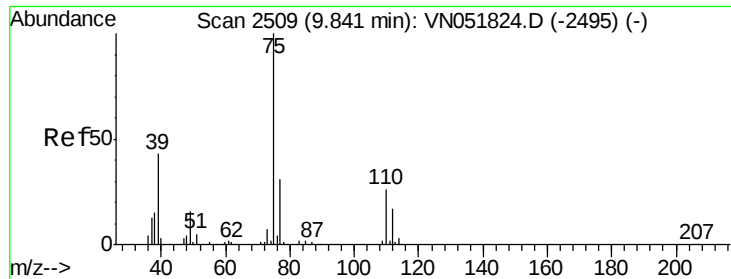
Tgt Ion: 75 Resp: 186768

Ion Ratio Lower Upper

75 100

77 30.8 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 18.93 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

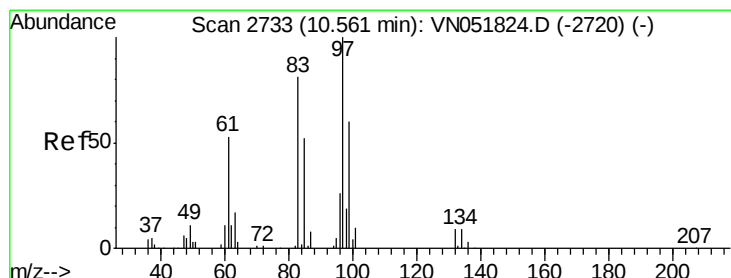
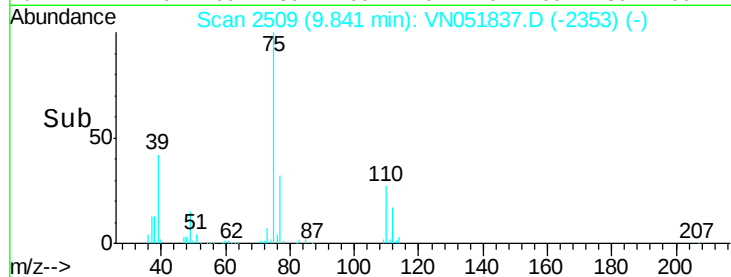
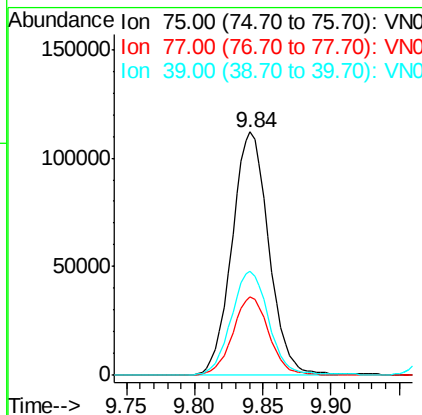
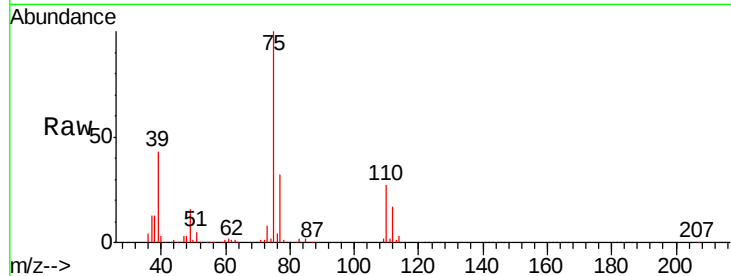
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	75	Resp:	210476
Ion	Ratio	Lower	Upper
75	100		
77	31.9	23.2	34.8
39	42.7	34.6	52.0

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#50

1,1,2-Trichloroethane

Concen: 19.66 ug/l

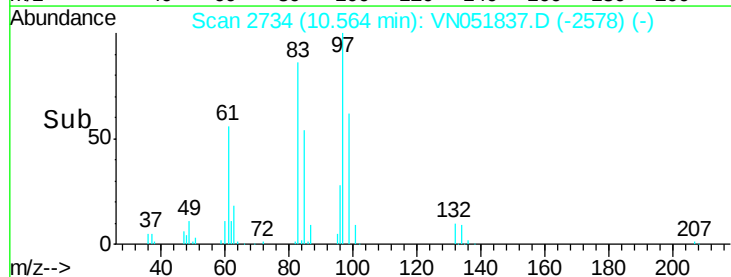
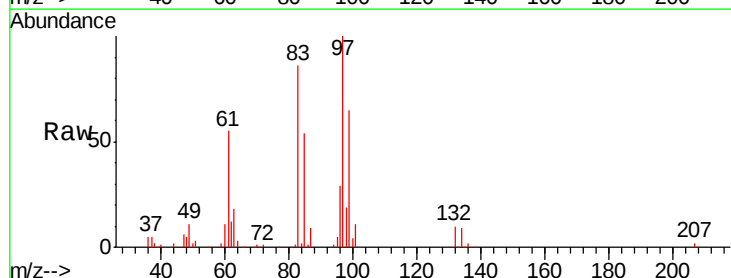
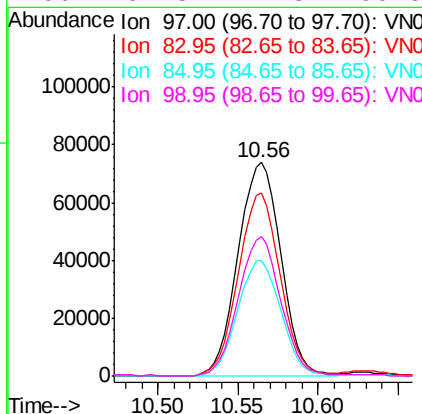
RT: 10.56 min Scan# 2734

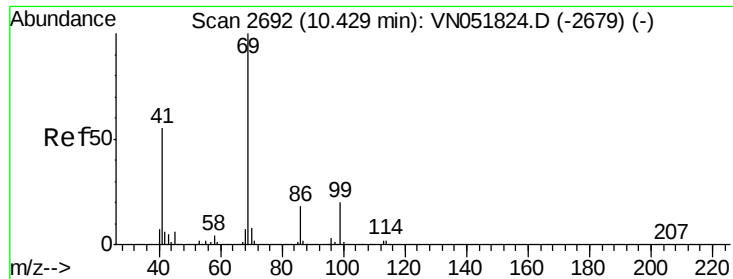
Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Tgt Ion:	97	Resp:	135999
Ion	Ratio	Lower	Upper
97	100		
83	85.8	68.2	102.4
85	54.1	42.5	63.7
99	64.8	44.3	66.5





#51

Ethyl methacrylate

Concen: 19.58 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

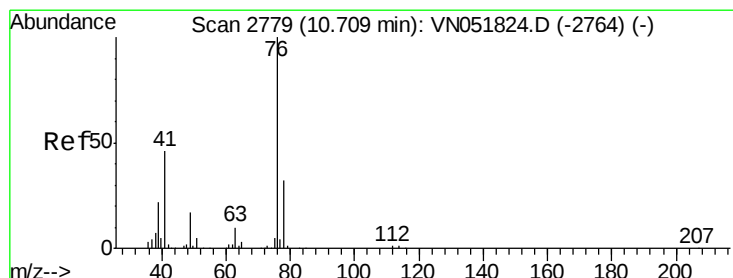
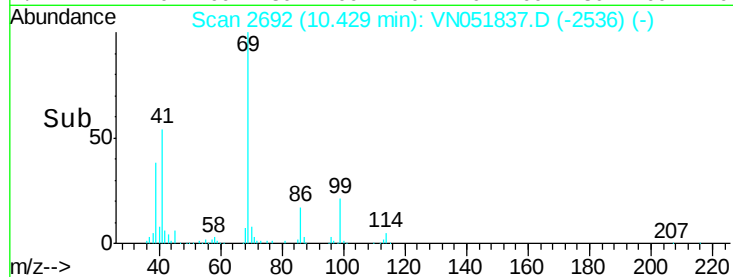
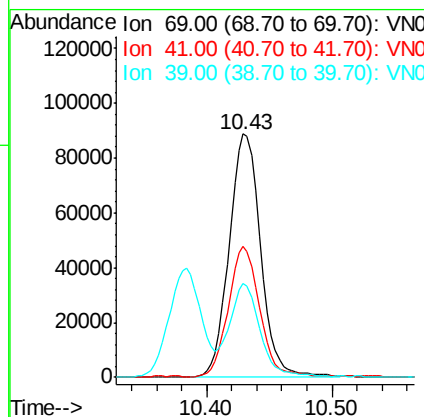
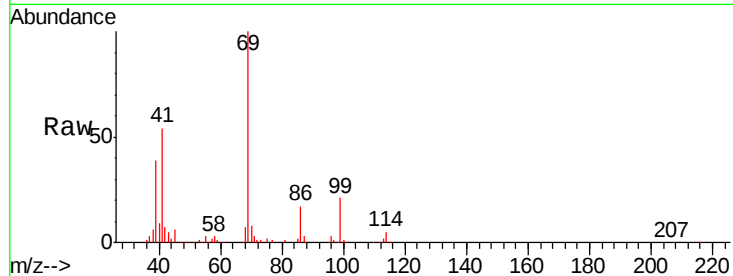
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	69	Resp:	155060
Ion	Ratio	Lower	Upper
69	100		
41	53.7	34.4	103.1
39	38.3	16.3	48.8

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#52

1,3-Dichloropropane

Concen: 20.20 ug/l

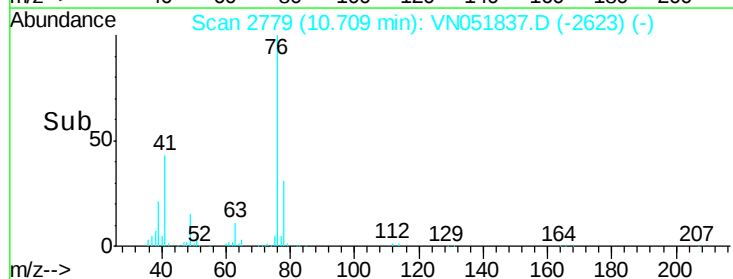
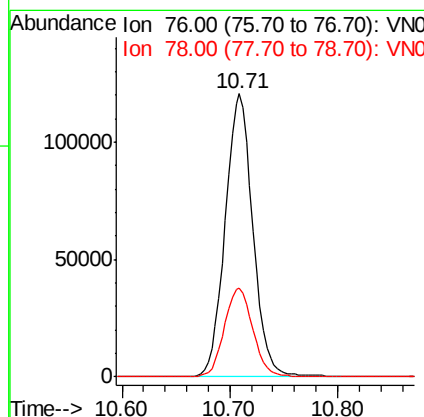
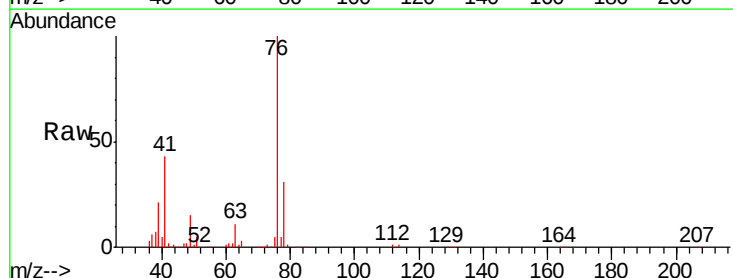
RT: 10.71 min Scan# 2779

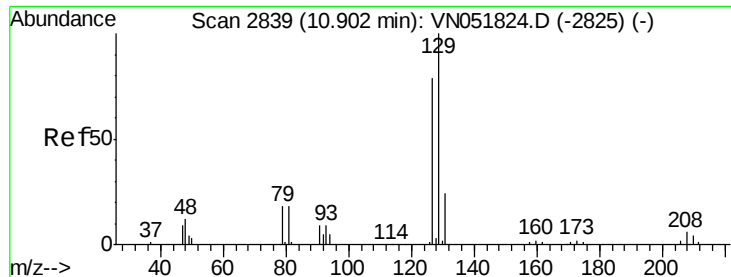
Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Tgt Ion:	76	Resp:	215691
Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	67.6





#53

Dibromochloromethane

Concen: 18.64 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:129 Resp: 159535

Ion Ratio Lower Upper

129 100

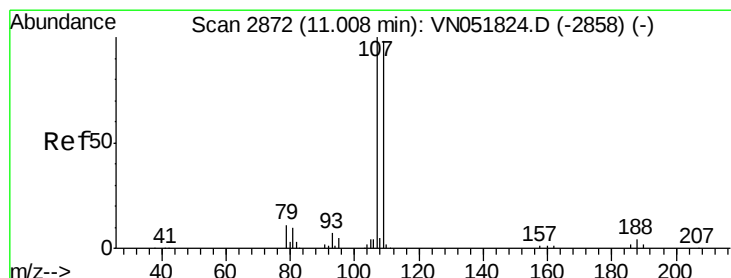
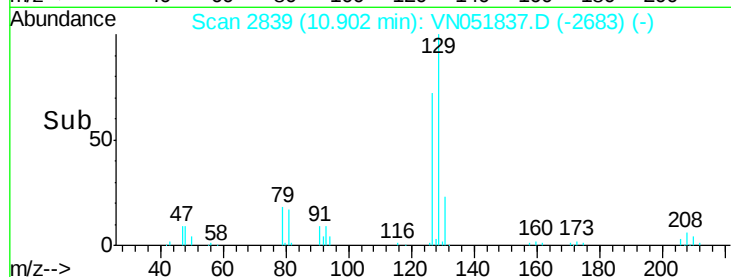
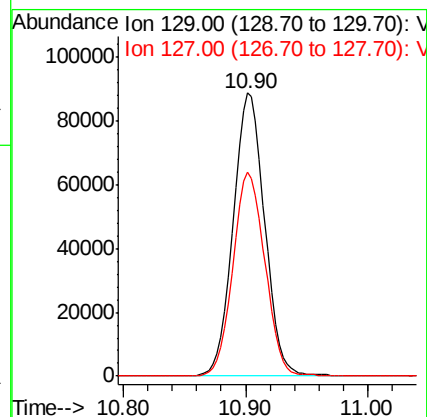
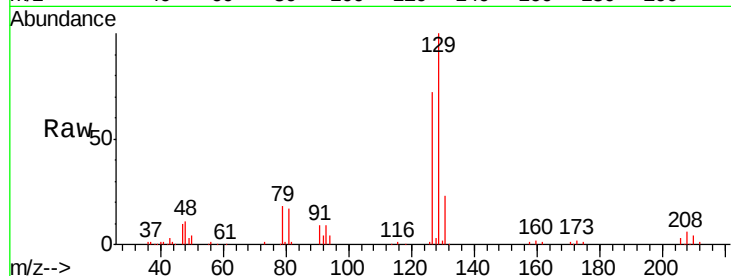
127 73.2 40.2 120.5

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#54

1,2-Dibromoethane

Concen: 19.91 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051837.D

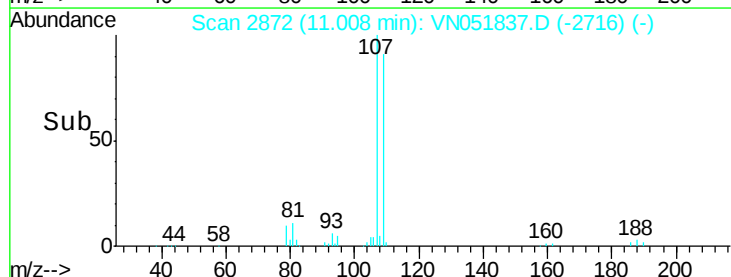
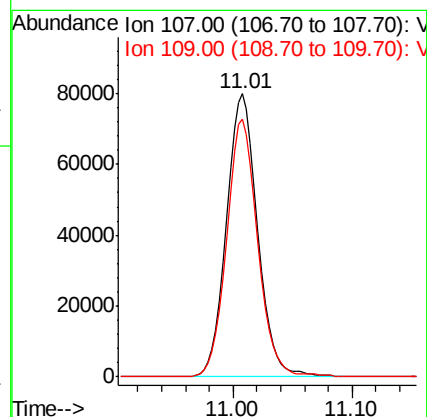
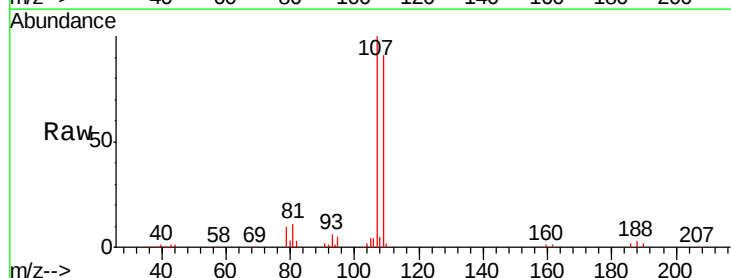
Acq: 12 Oct 2018 17:04

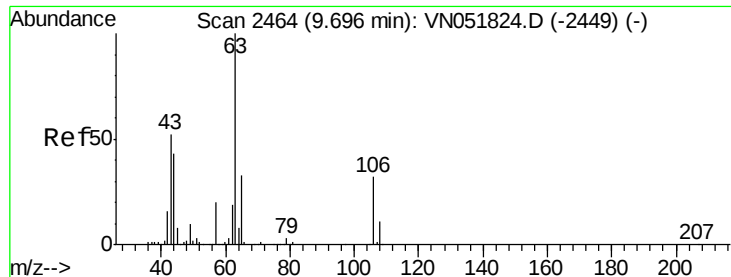
Tgt Ion:107 Resp: 144568

Ion Ratio Lower Upper

107 100

109 90.3 77.4 116.0





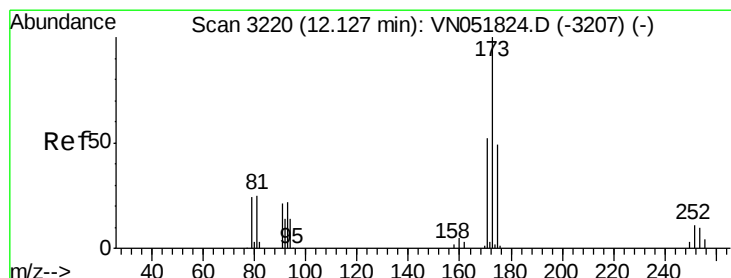
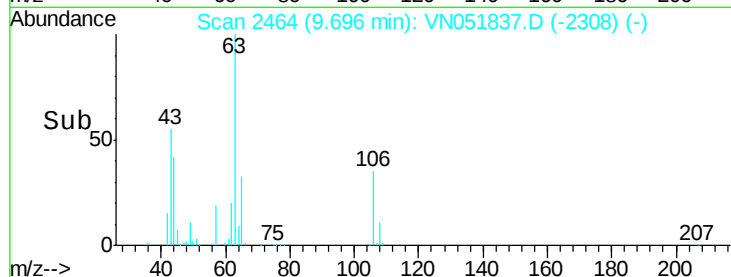
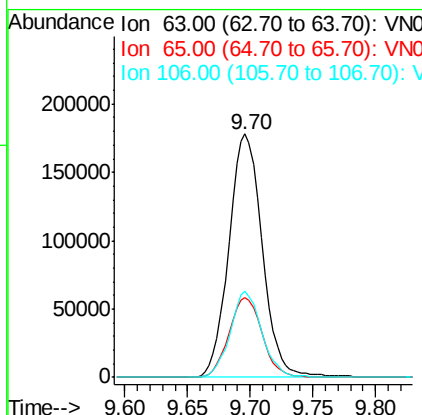
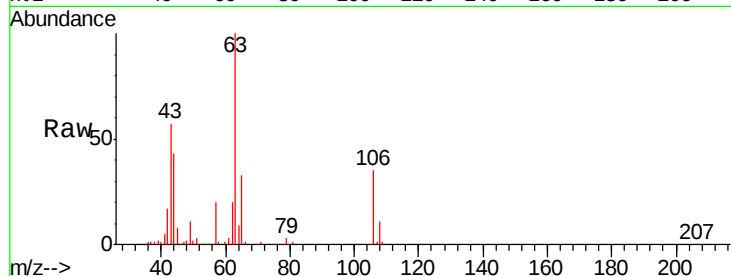
#55
 2-Chloroethyl vinyl ether
 Concen: 97.90 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.4	25.4	38.0
106	33.3	21.2	31.8

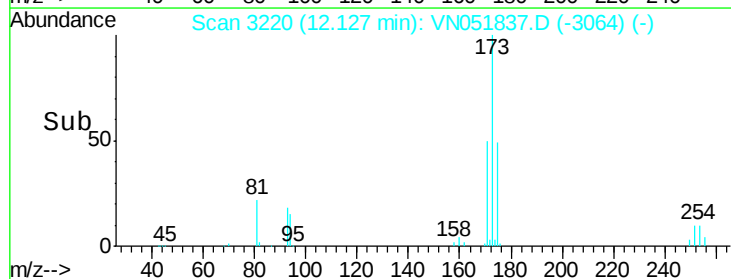
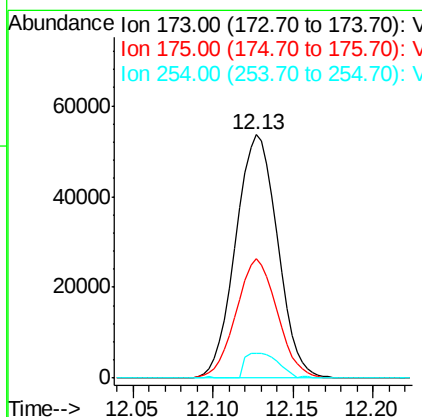
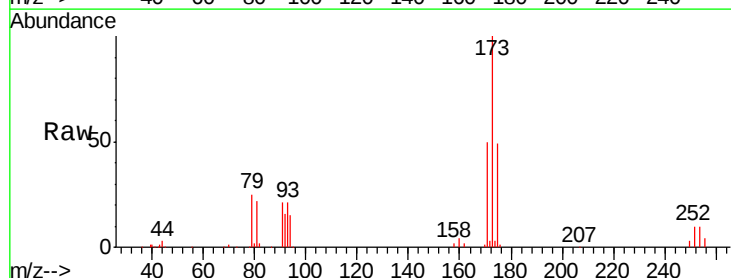
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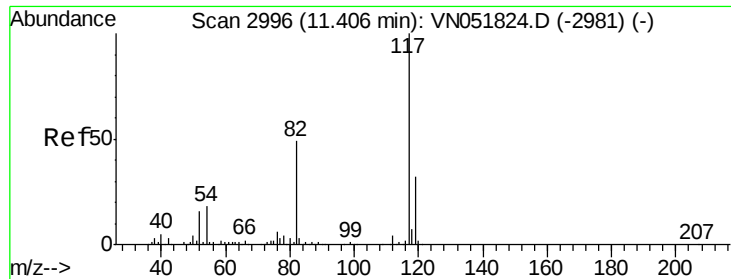
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#56
 Bromoform
 Concen: 17.02 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.9	35.8	53.8
254	8.0	8.6	13.0





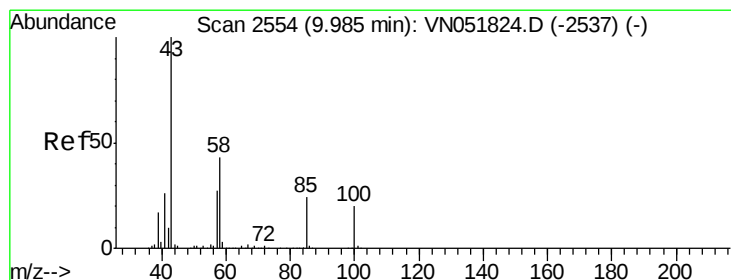
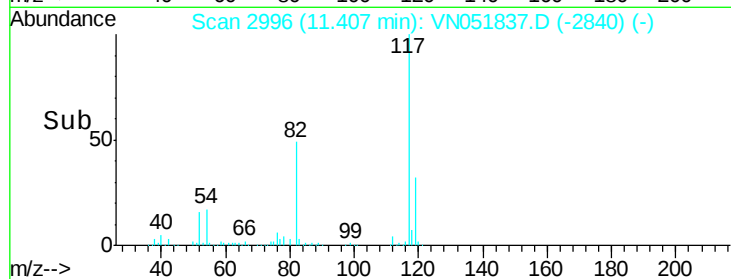
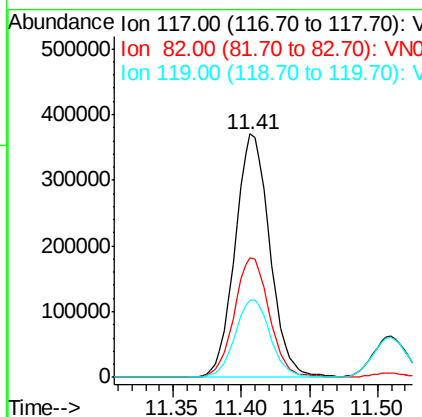
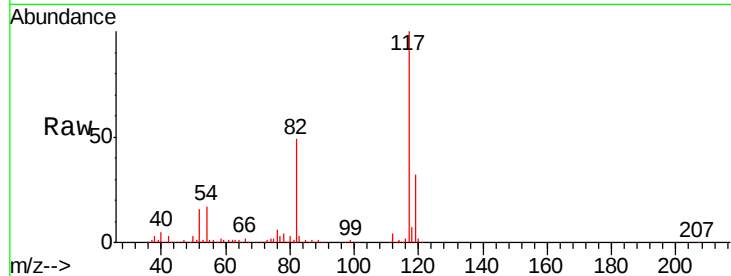
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp Lower	Resp Upper
117	100		
82	49.5	44.1	66.1
119	32.4	25.8	38.8

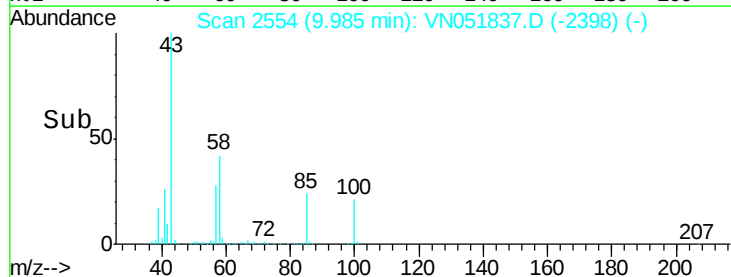
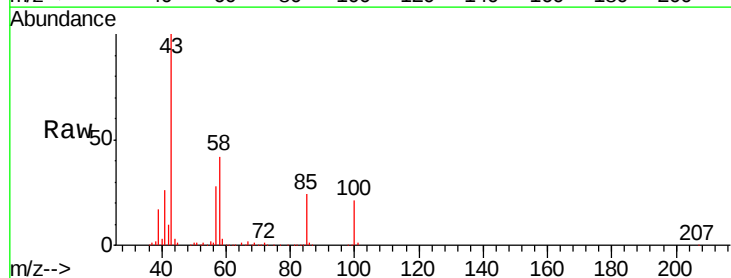
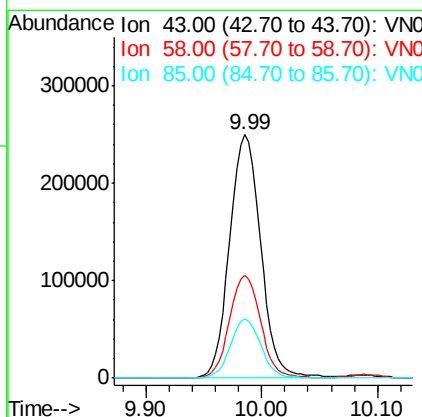
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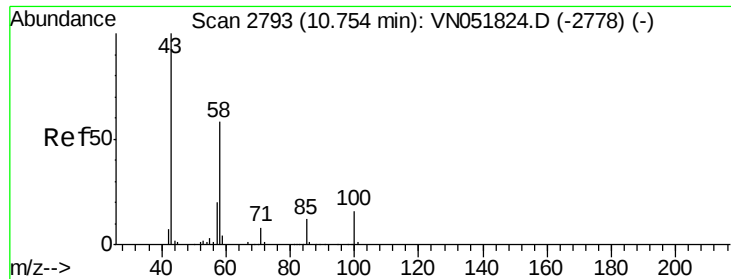
MMDadoda
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#58
4-Methyl-2-Pentanone
Concen: 106.13 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
43	100		
58	42.4	29.3	43.9
85	23.7	12.6	18.8





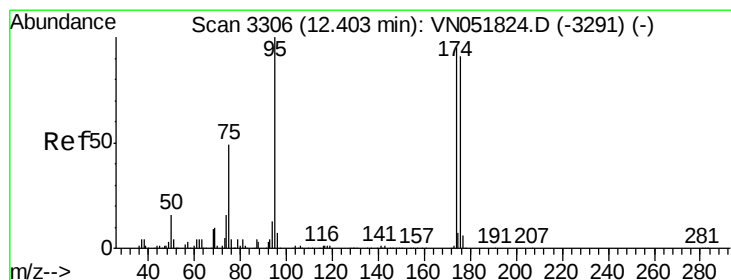
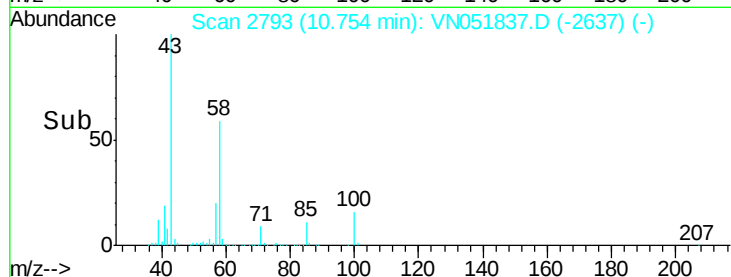
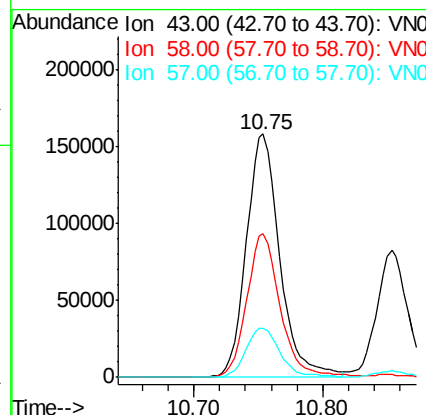
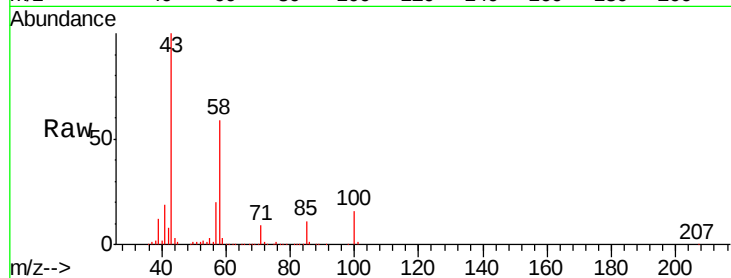
#59
2-Hexanone
Concen: 96.29 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
43	100		
58	59.1	41.3	61.9
57	20.8	13.4	20.0

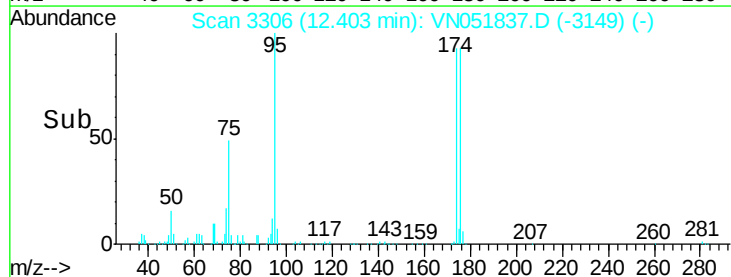
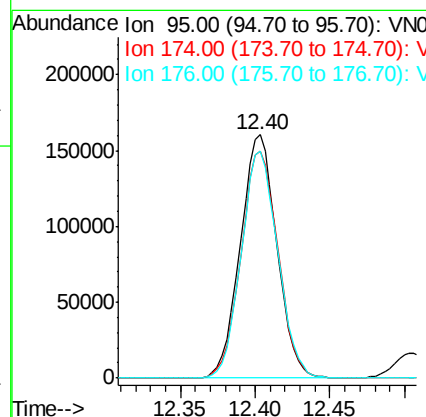
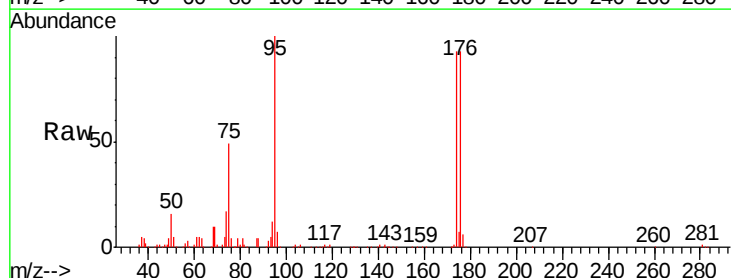
Manual Integrations
APPROVED

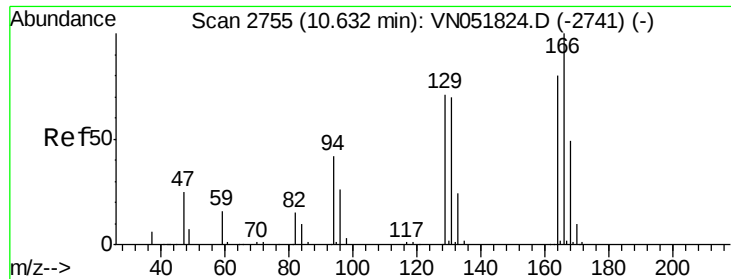
MMDadoda
10/15/2018 11:28:03 AM



#60
4-Bromofluorobenzene
Concen: 96.29 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.5	73.5	110.3
176	93.7	70.2	105.2





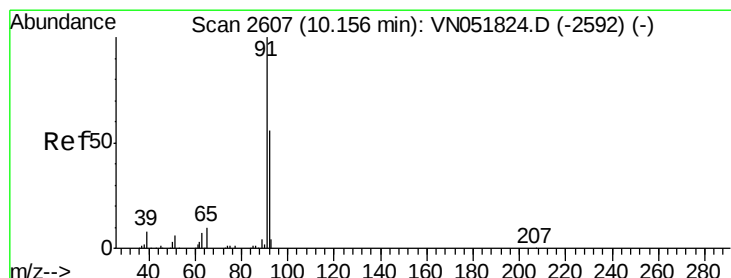
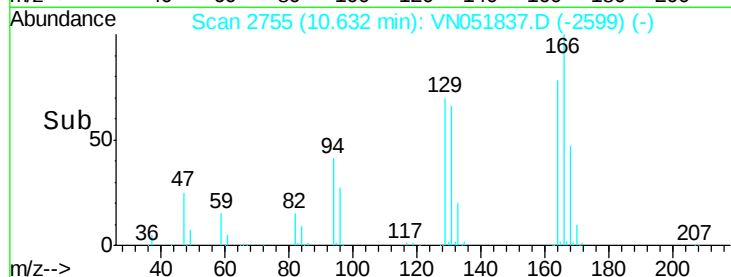
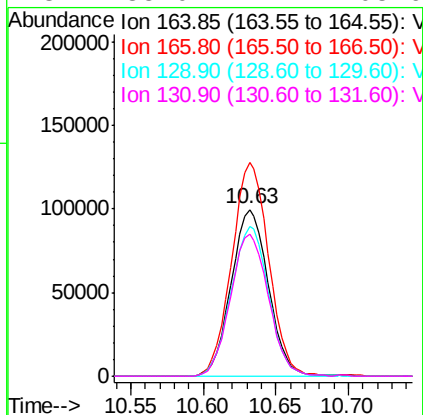
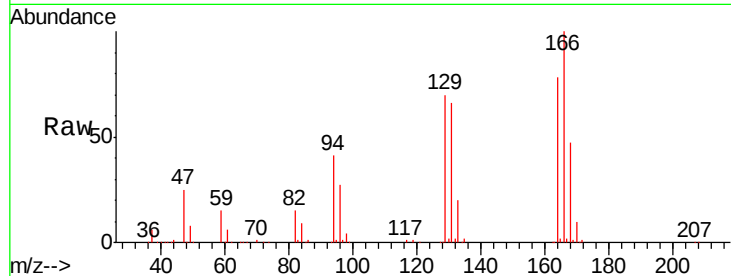
#61
Tetrachloroethene
Concen: 21.24 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	178043		
166	128.0	98.7	148.1	
129	89.8	69.6	104.4	
131	85.0	72.4	108.6	

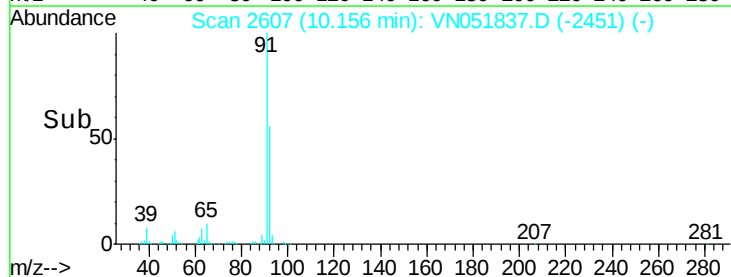
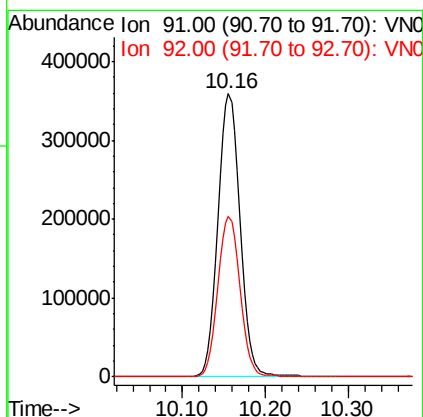
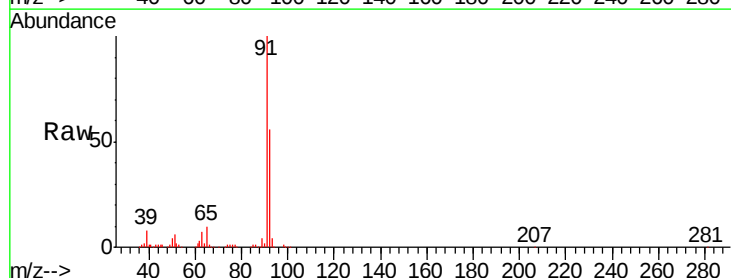
Manual Integrations
APPROVED

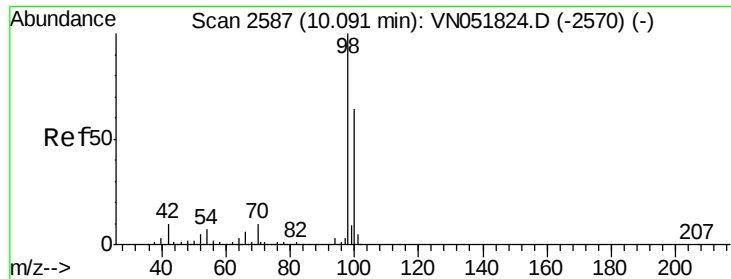
MMDadoda
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#62
Toluene
Concen: 20.44 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	665644		
92	56.7	44.6	66.8	





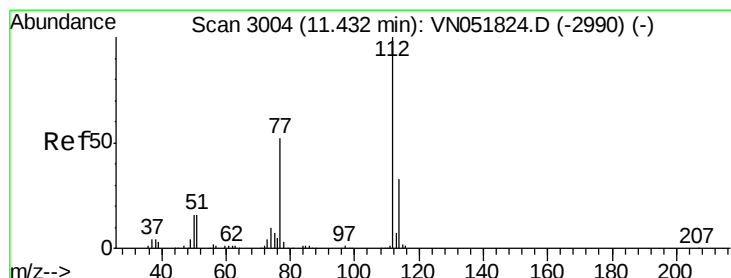
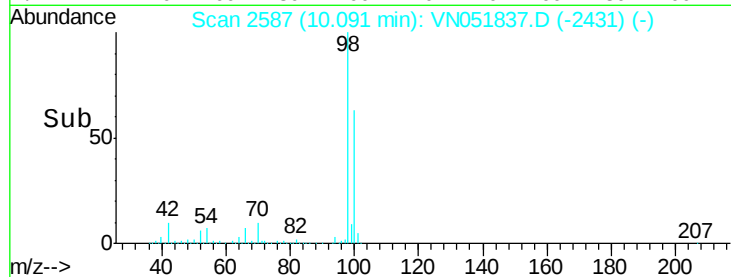
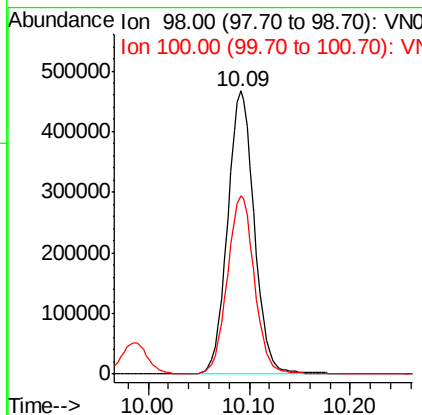
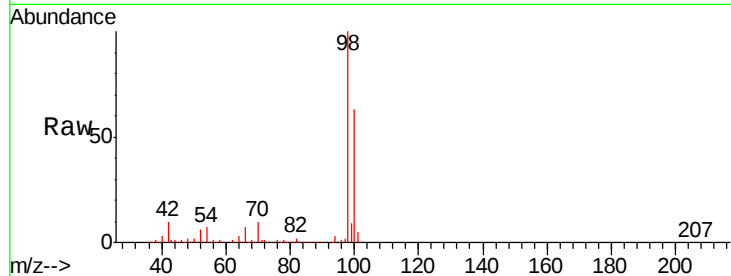
#63
Toluene-d8
Concen: 20.44 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 98 Resp: 862529
Ion Ratio Lower Upper
98 100
100 63.2 50.8 76.2

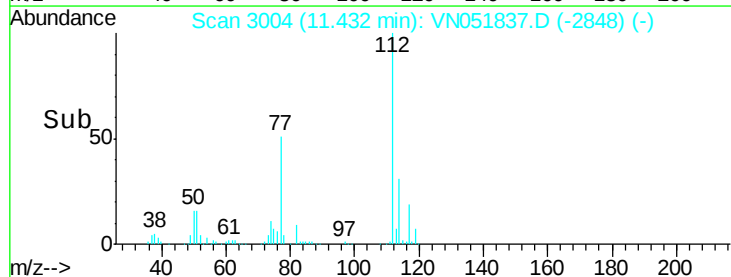
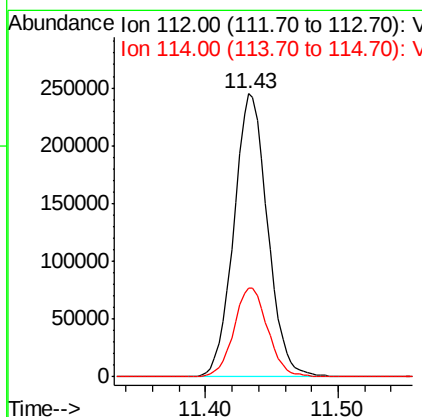
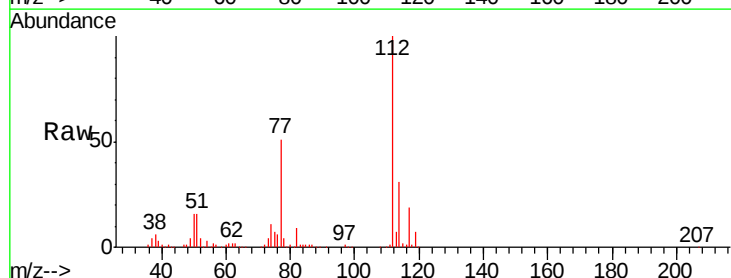
Manual Integrations
APPROVED

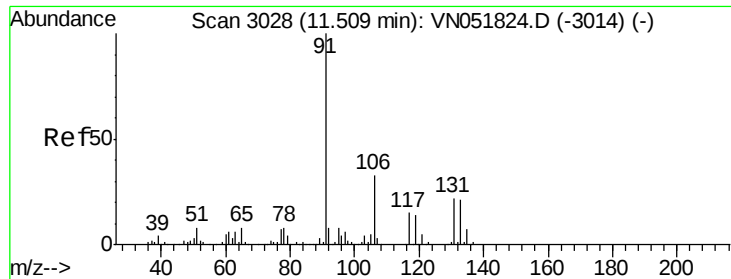
MMDadoda
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#64
Chlorobenzene
Concen: 20.30 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 112 Resp: 433020
Ion Ratio Lower Upper
112 100
114 31.4 27.5 41.3





#65

1,1,1,2-Tetrachloroethane

Concen: 19.98 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

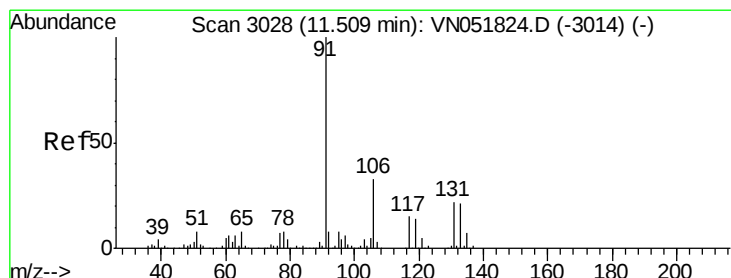
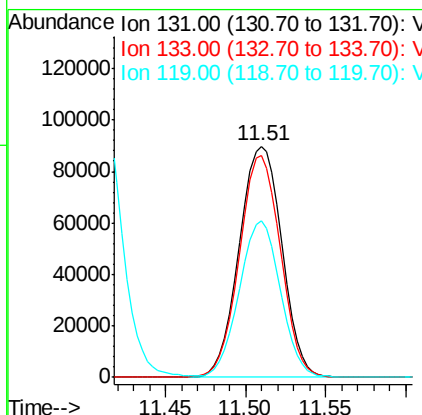
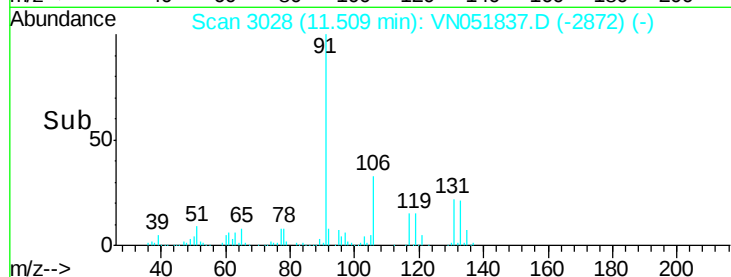
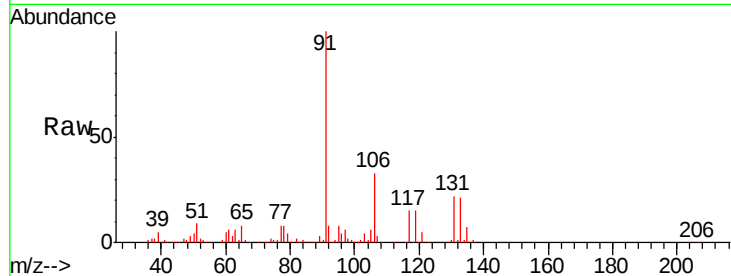
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	131	Resp:	163573
Ion Ratio	Lower	Upper	
131	100		
133	92.6	0.0	190.4
119	65.3	0.0	128.0

Manual Integrations
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#66

Ethyl Benzene

Concen: 19.89 ug/l

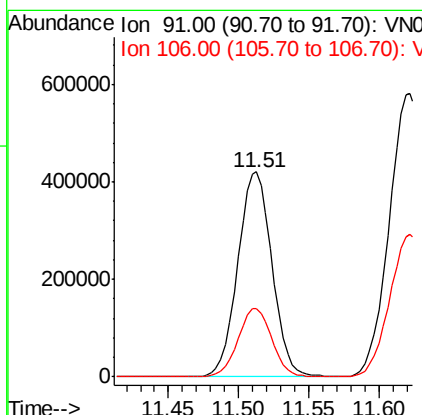
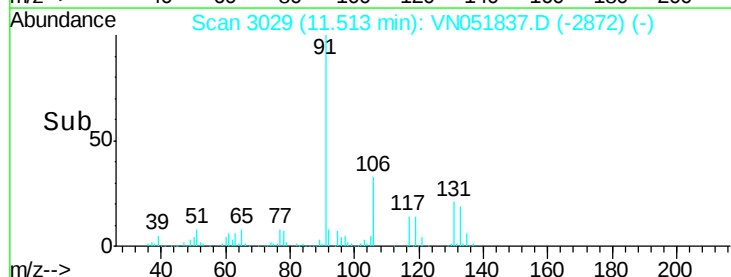
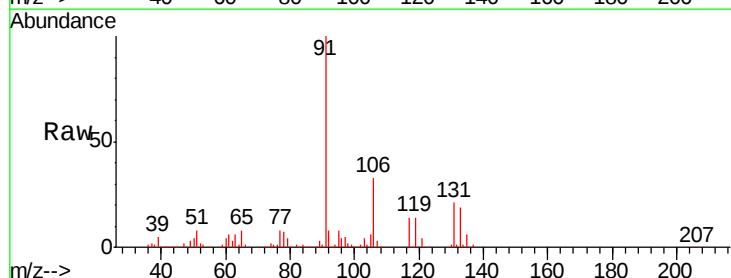
RT: 11.51 min Scan# 3029

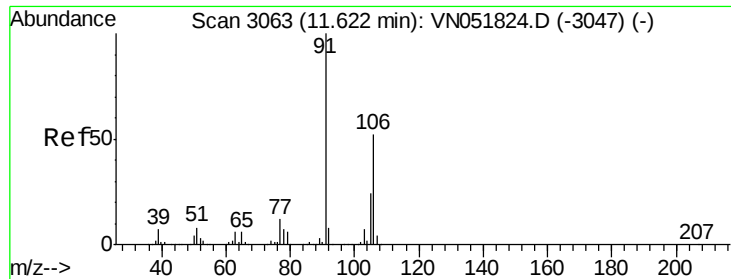
Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Tgt Ion:	91	Resp:	716008
Ion Ratio	Lower	Upper	
91	100		
106	33.3	25.9	38.9





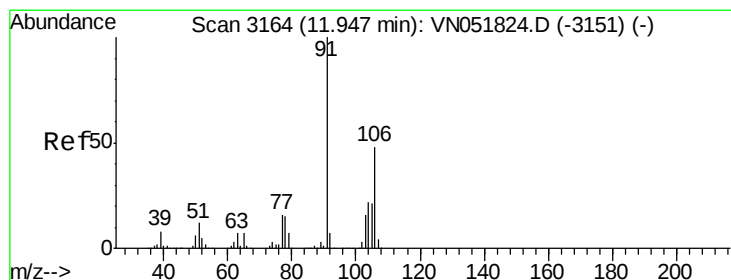
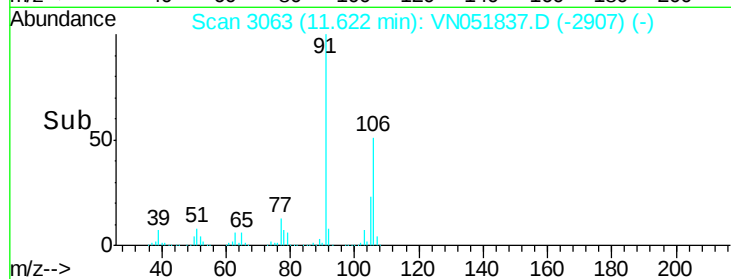
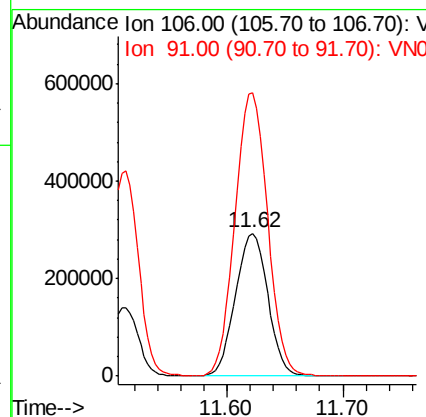
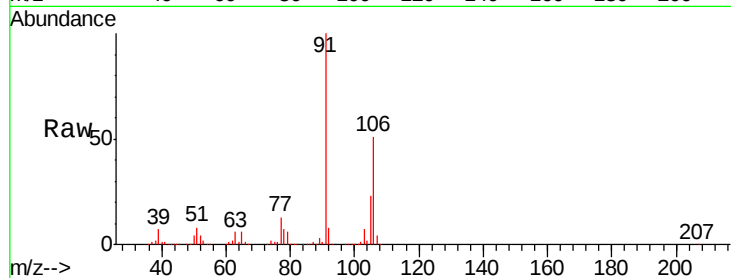
#67
m/p-Xylenes
Concen: 38.88 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 567278
Ion Ratio Lower Upper
106 100
91 199.2 158.8 238.2

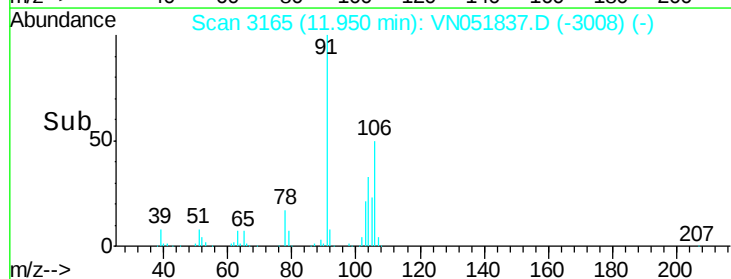
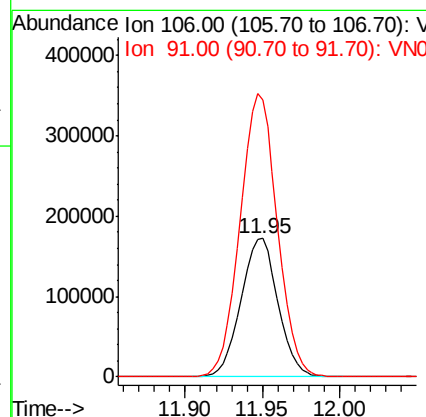
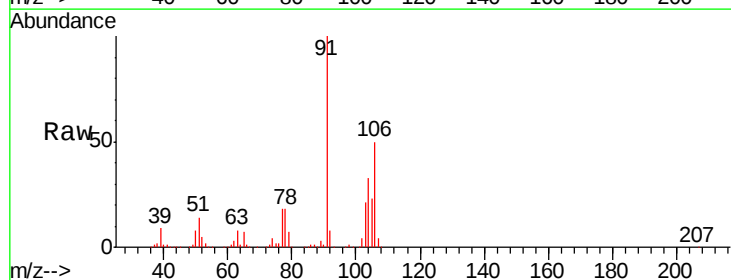
Manual Integrations
APPROVED

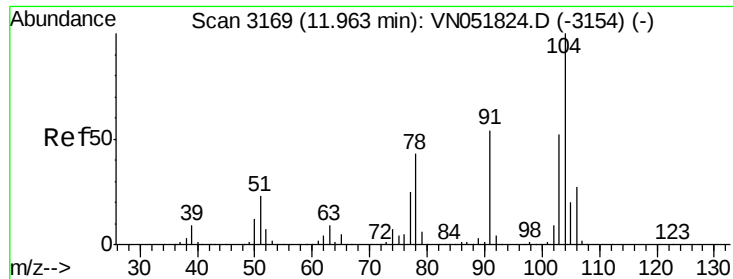
MMDadoda
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#68
o-Xylene
Concen: 20.03 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion:106 Resp: 288193
Ion Ratio Lower Upper
106 100
91 204.1 111.1 333.3





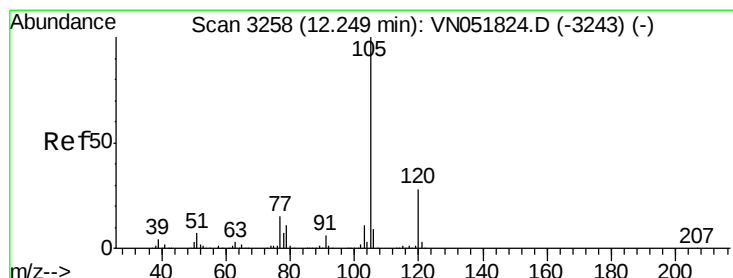
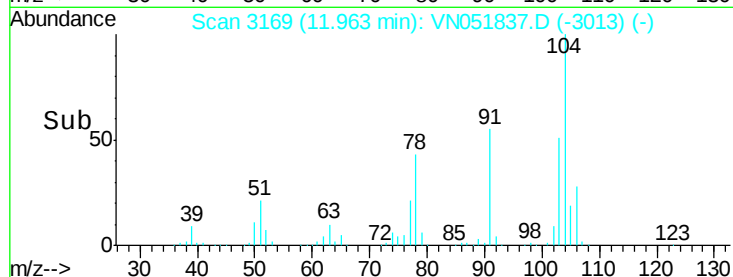
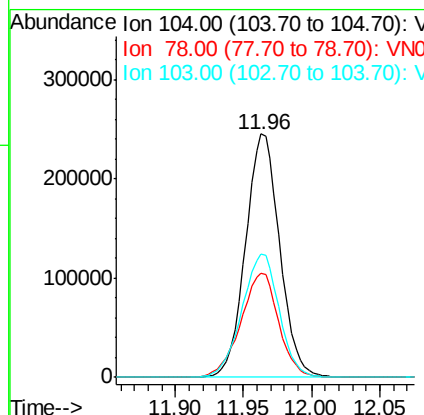
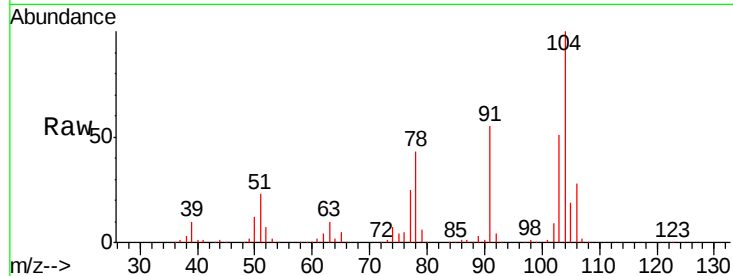
#69
Styrene
Concen: 19.30 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.6	40.6	60.8
103	55.6	44.0	66.0

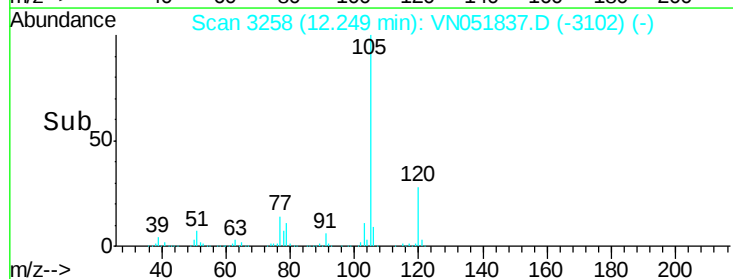
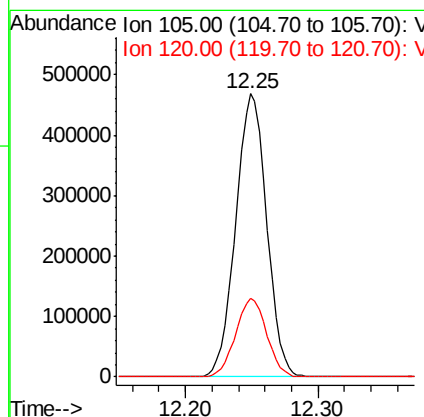
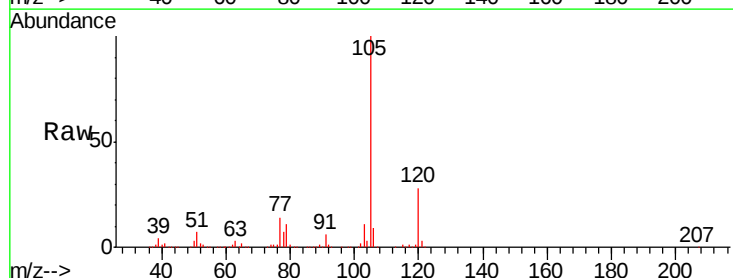
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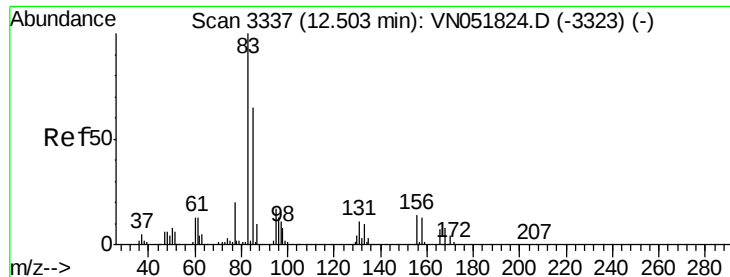
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#70
Isopropylbenzene
Concen: 19.81 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.6	19.0	35.4





#71

1,1,2,2-Tetrachloroethane

Concen: 20.53 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 155545
Ion Ratio Lower Upper

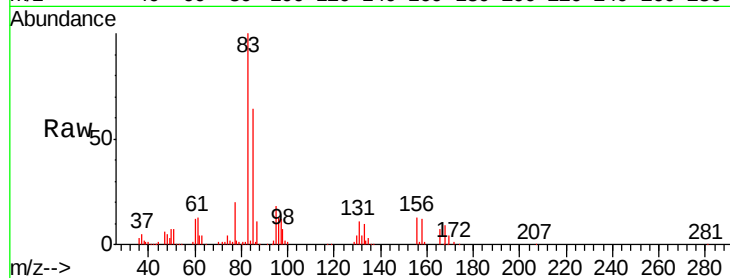
83 100

131 11.5 5.5 16.4

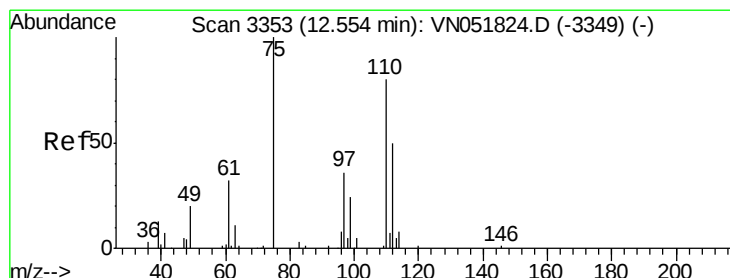
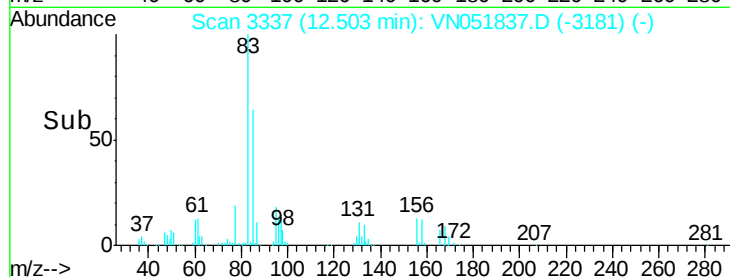
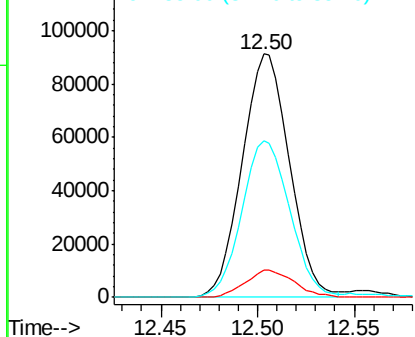
85 65.3 30.6 91.8

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Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 131.00 (130.70 to 131.70): VN
Ion 85.00 (84.70 to 85.70): VN



#72

1,2,3-Trichloropropane

Concen: 22.53 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

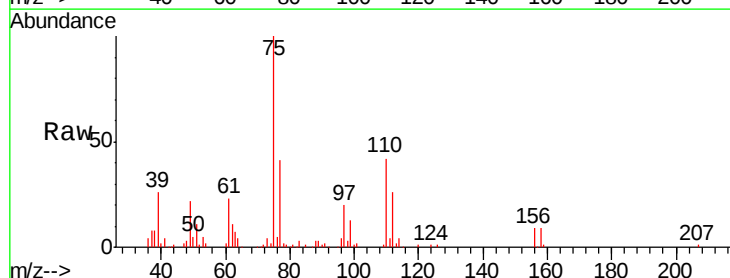
Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

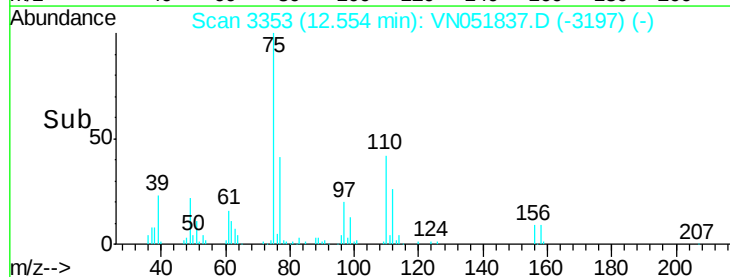
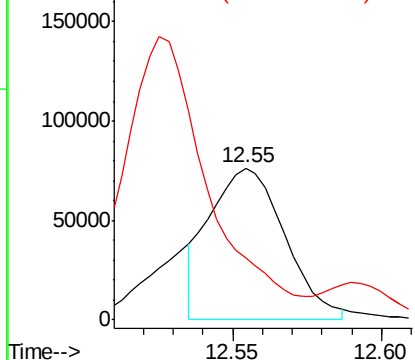
Tgt Ion: 75 Resp: 134254
Ion Ratio Lower Upper

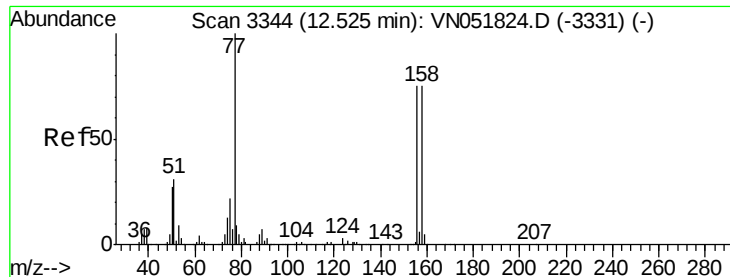
75 100

77 210.5 0.0 400.0



Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 77.00 (76.70 to 77.70): VN





#73

Bromobenzene

Concen: 19.53 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

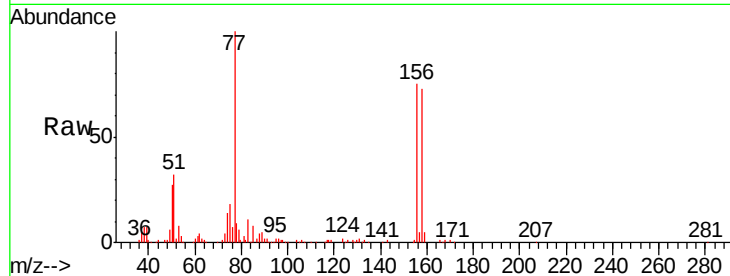
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	156	Resp:	185536
Ion Ratio	Lower	Upper	
156	100		
77	152.3	0.0	377.4
158	96.7	0.0	203.0

Manual Integrations
APPROVED

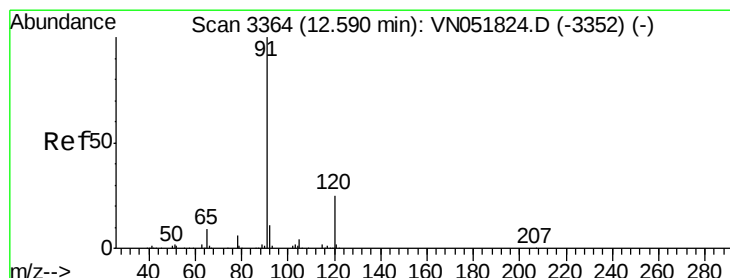
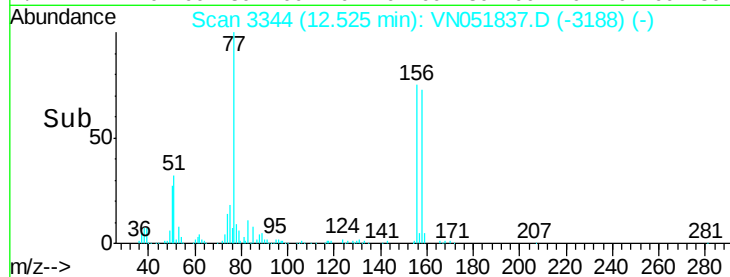
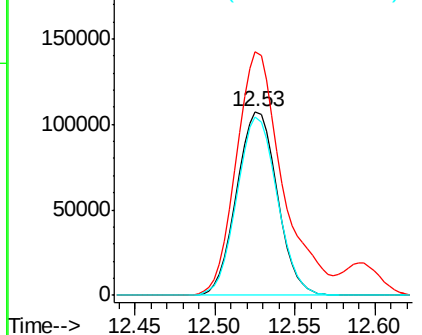
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 19.52 ug/l

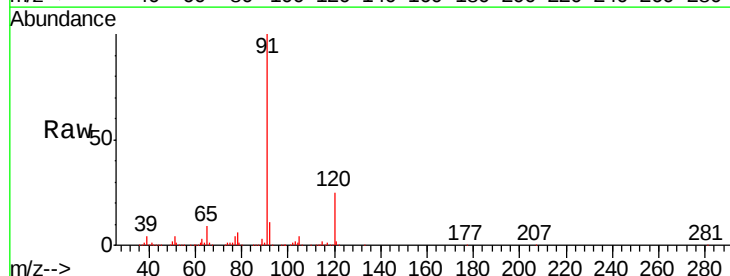
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN051837.D

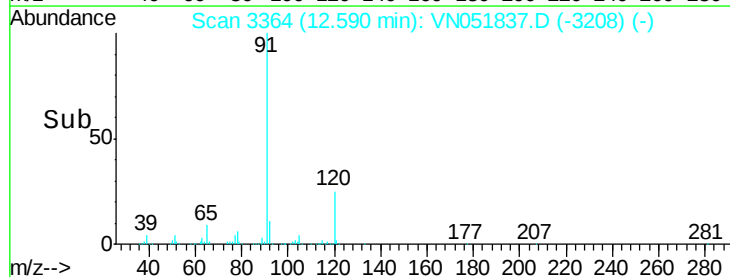
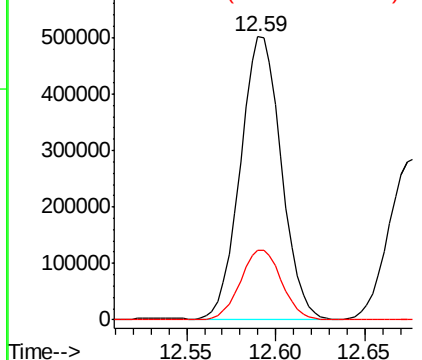
Acq: 12 Oct 2018 17:04

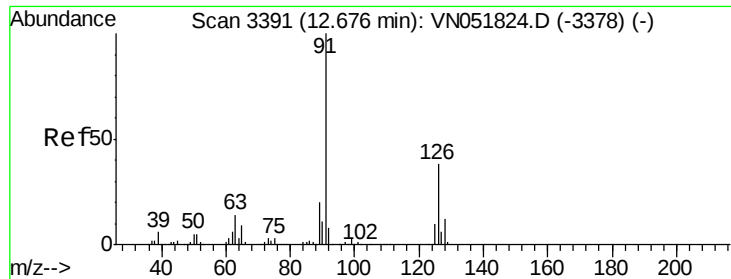
Tgt Ion:	91	Resp:	805285
Ion Ratio	Lower	Upper	
91	100		
120	24.8	0.0	45.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.85 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 480217

Ion Ratio Lower Upper

91 100

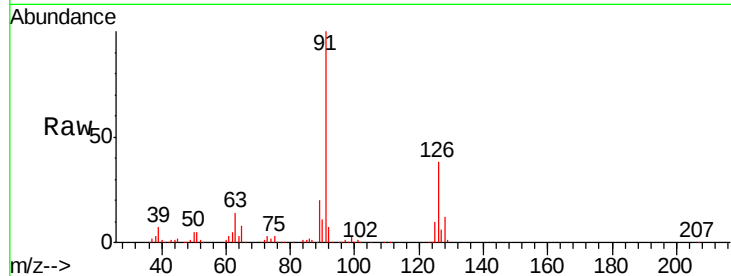
126 37.6 0.0 67.6

Manual Integrations

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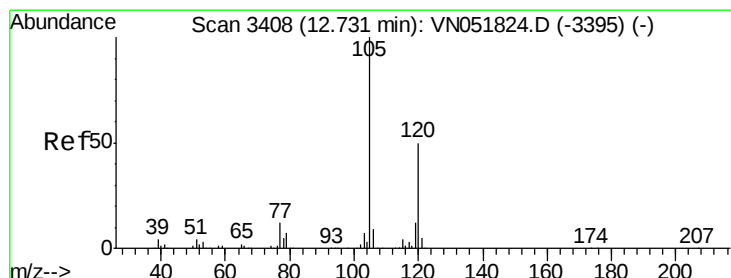
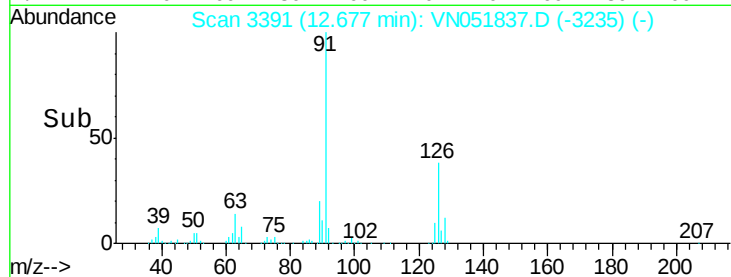
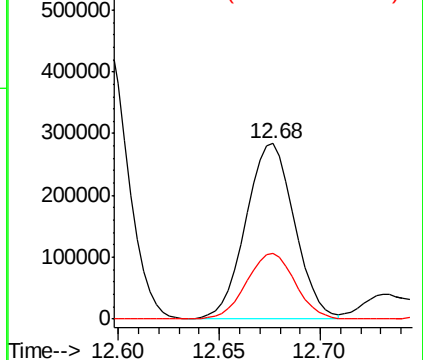
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN051824.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 19.48 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051837.D

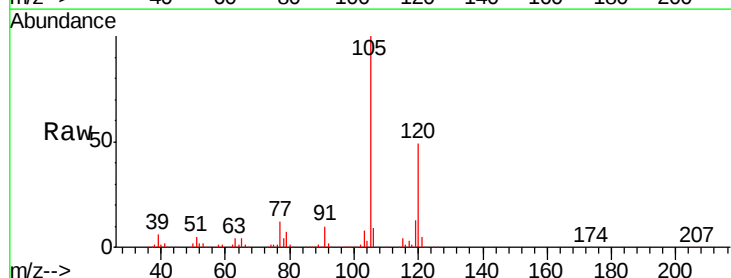
Acq: 12 Oct 2018 17:04

Tgt Ion: 105 Resp: 618076

Ion Ratio Lower Upper

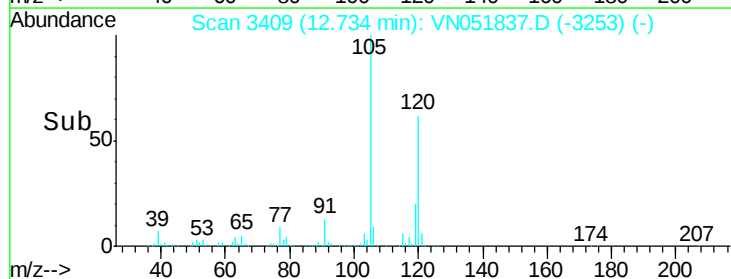
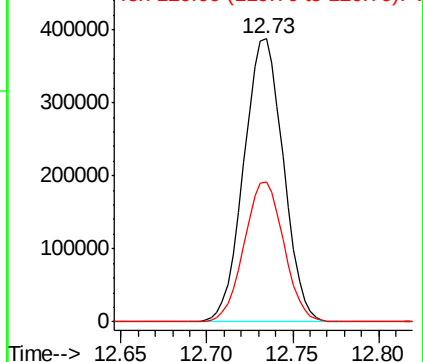
105 100

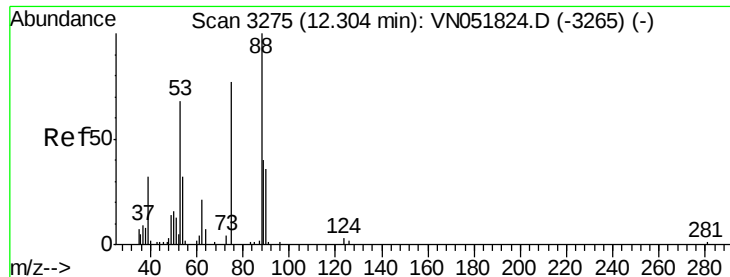
120 49.8 0.0 98.2



Abundance Ion 105.00 (104.70 to 105.70): VN051824.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN051824.D (-3395) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 16.22 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 31968

Ion Ratio Lower Upper

75 100

53 88.9 46.3 138.9

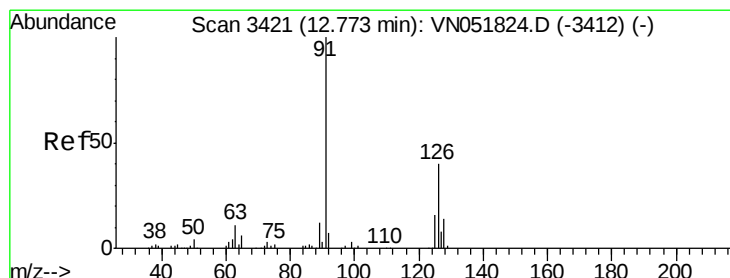
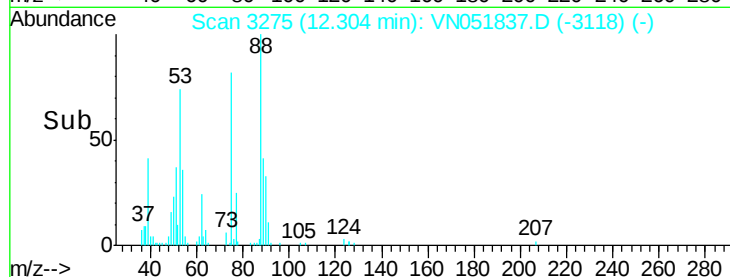
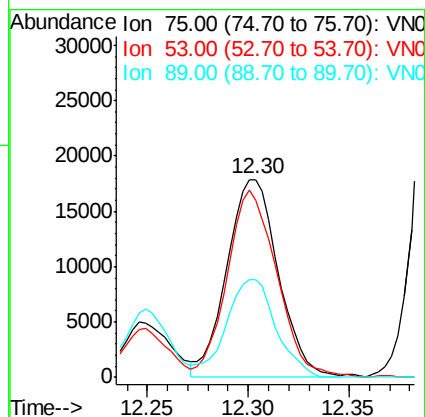
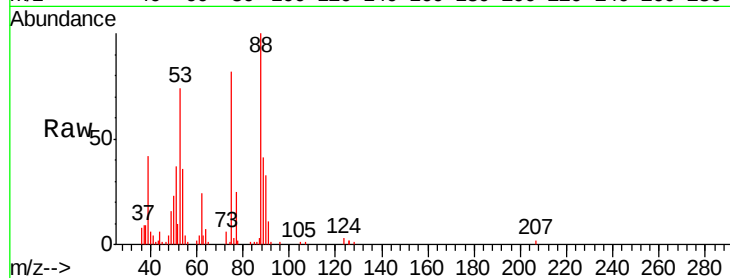
89 50.1 24.6 73.8

Manual Integrations

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#78

4-Chlorotoluene

Concen: 19.33 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051837.D

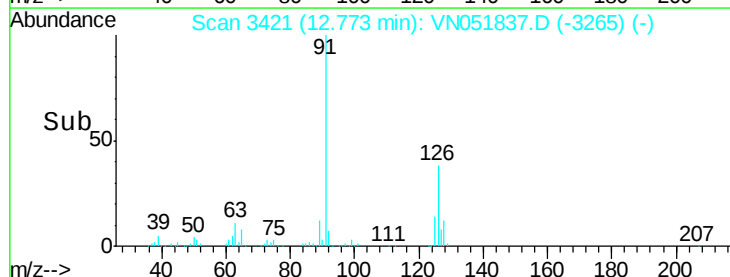
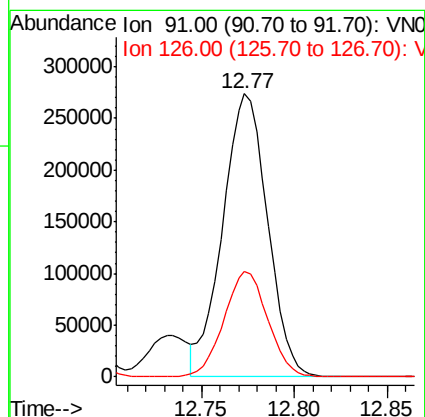
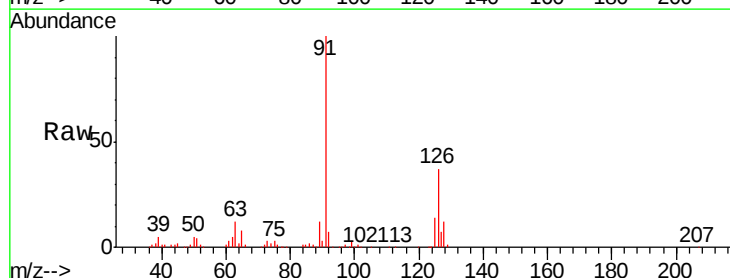
Acq: 12 Oct 2018 17:04

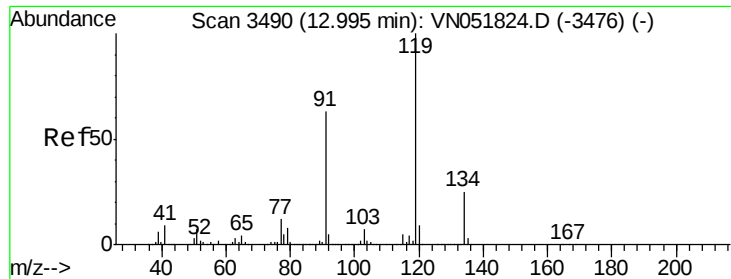
Tgt Ion: 91 Resp: 459429

Ion Ratio Lower Upper

91 100

126 36.3 0.0 65.2





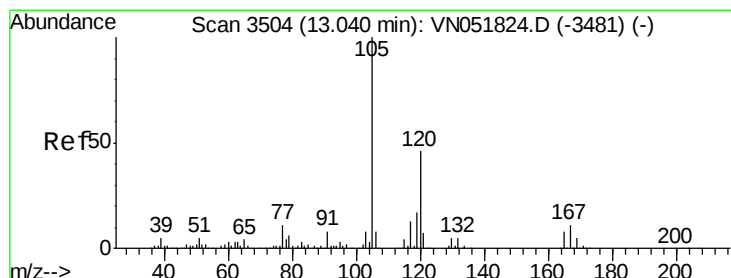
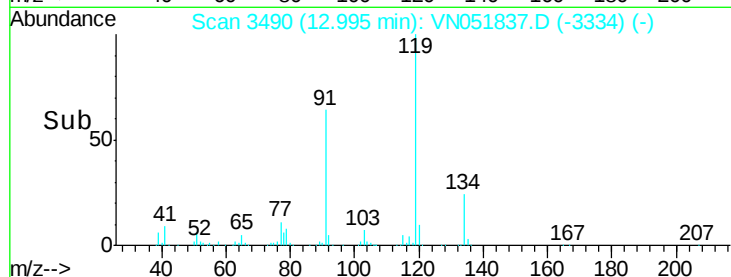
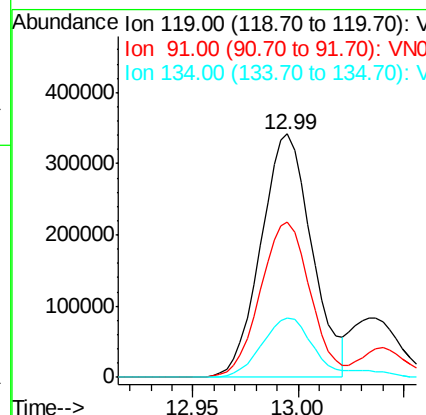
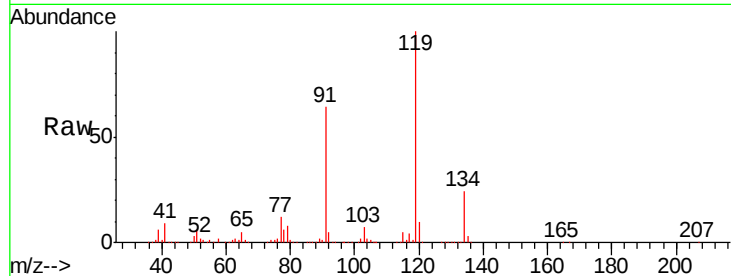
#79
tert-butylbenzene
Concen: 19.67 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	573812		
91	62.3	0.0	131.6	
134	24.8	0.0	46.2	

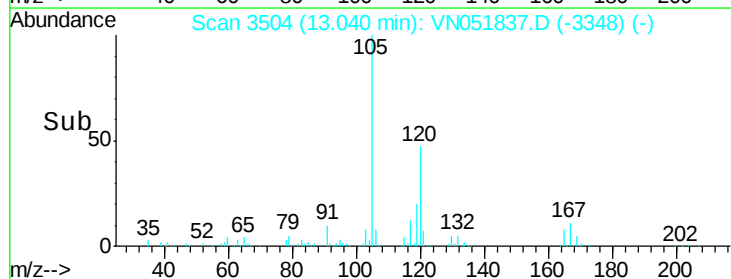
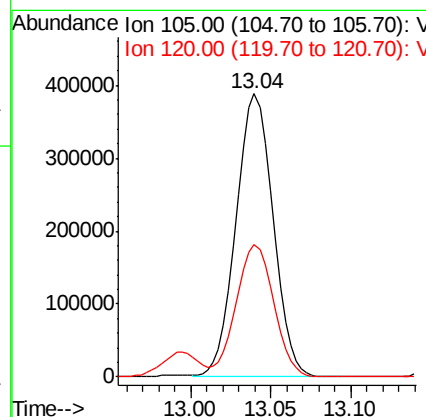
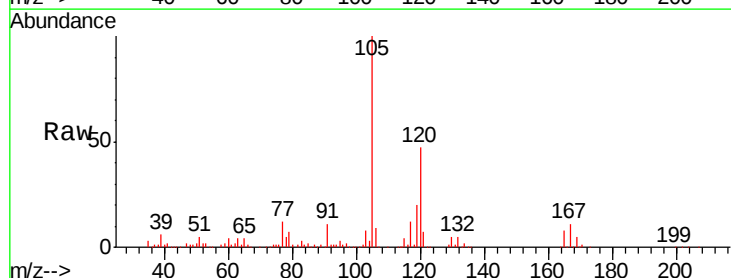
Manual Integrations
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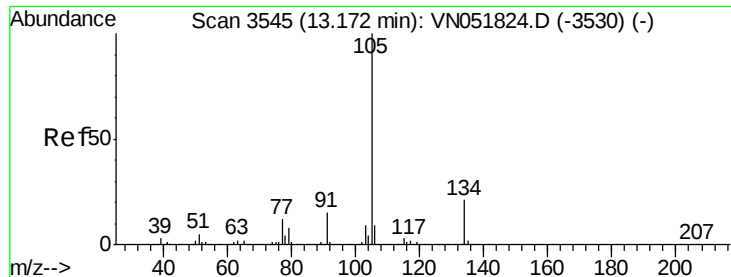
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#80
1,2,4-Trimethylbenzene
Concen: 19.31 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	612314		
120	47.7	0.0	89.6	





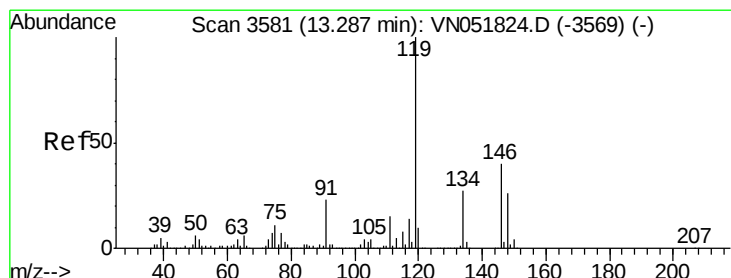
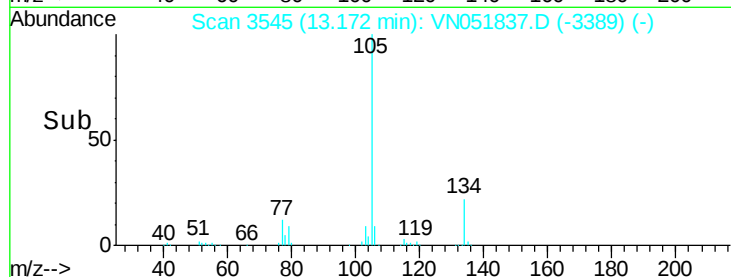
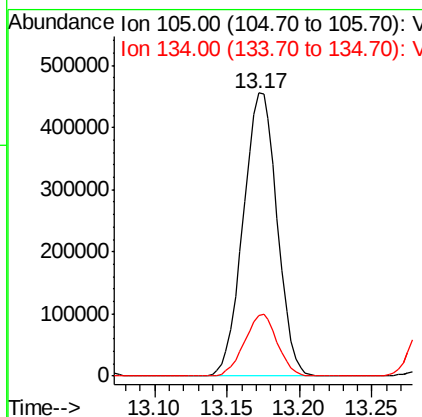
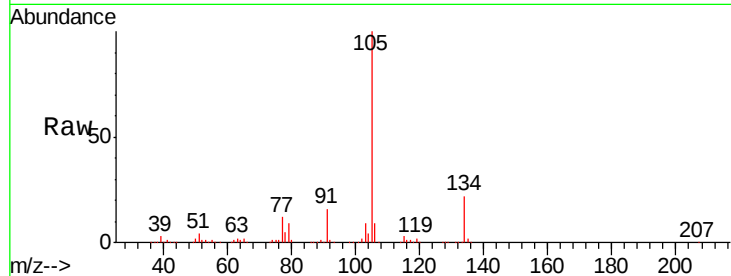
#81
 sec-Butylbenzene
 Concen: 19.45 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.2	0.0	39.4

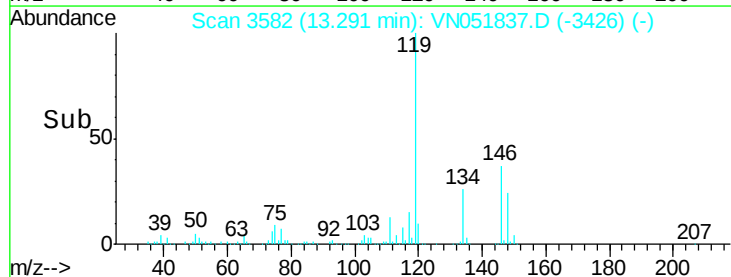
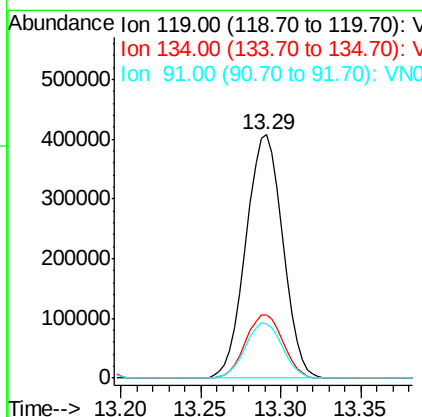
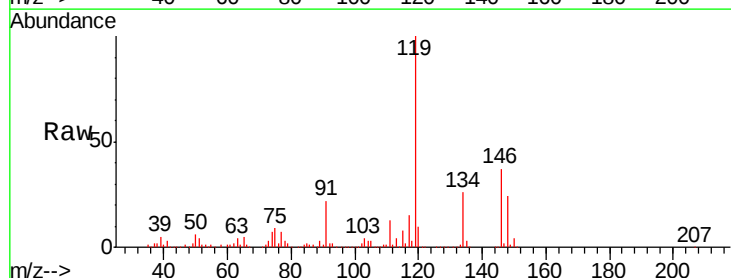
Manual Integrations
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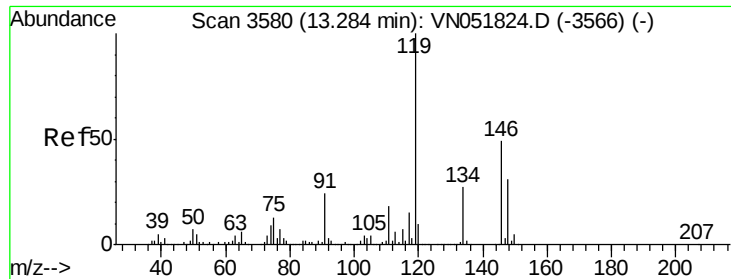
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#82
 p-Isopropyltoluene
 Concen: 18.77 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.5	0.0	53.6
91	22.9	0.0	52.0





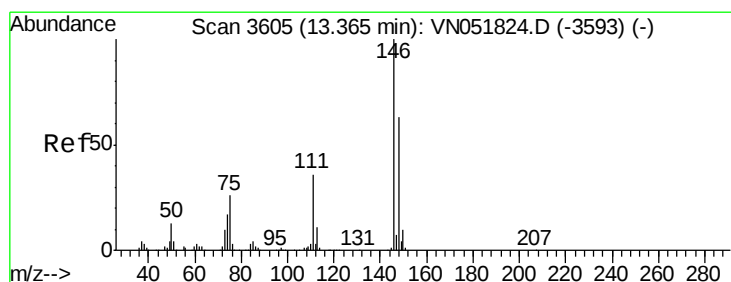
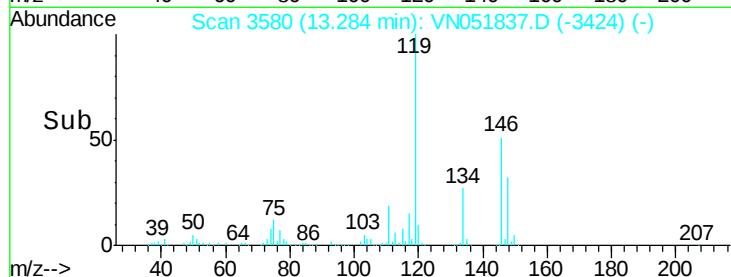
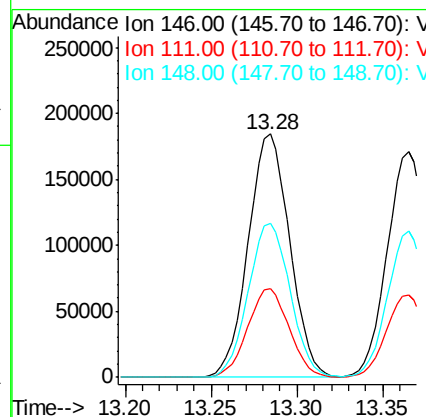
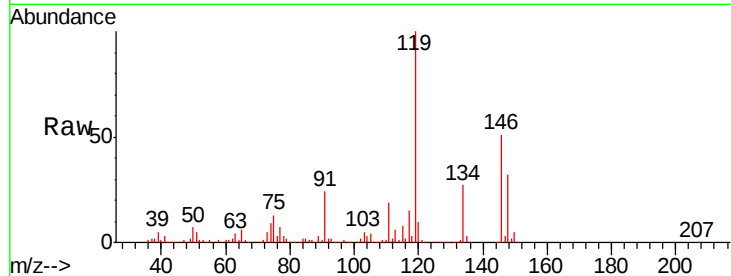
#83
 1,3-Dichlorobenzene
 Concen: 18.48 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	18.1	54.3
148	63.8	31.3	93.8

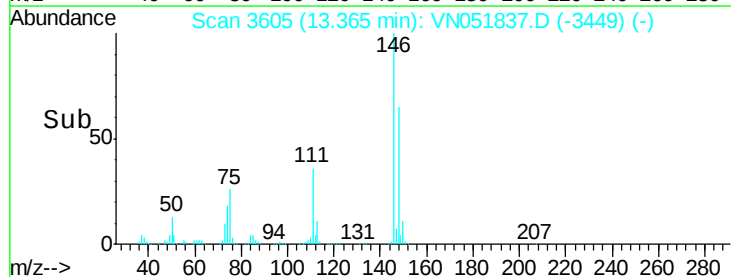
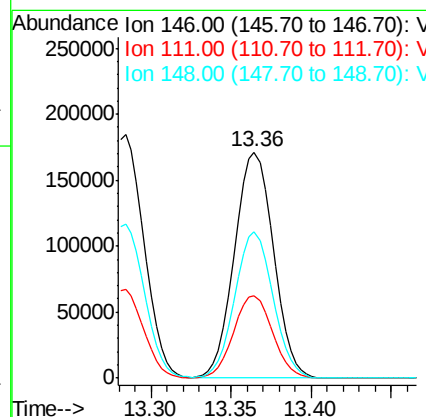
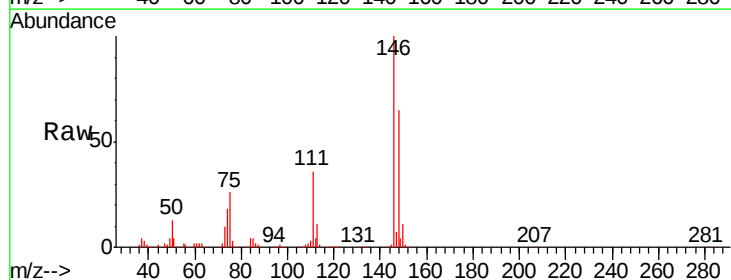
Manual Integrations
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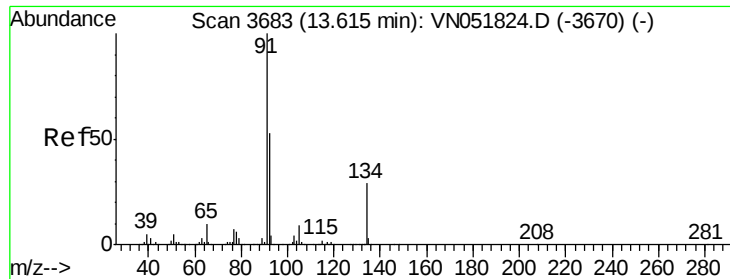
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#84
 1,4-Dichlorobenzene
 Concen: 18.08 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	17.4	52.2
148	63.4	32.8	98.3





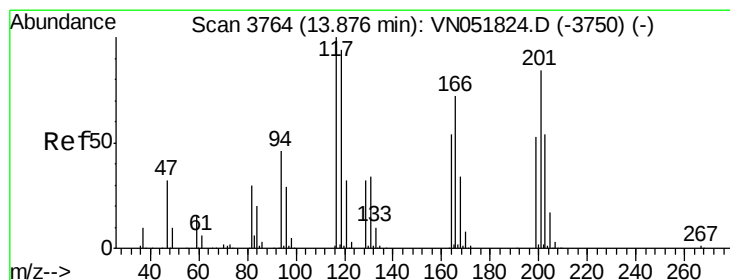
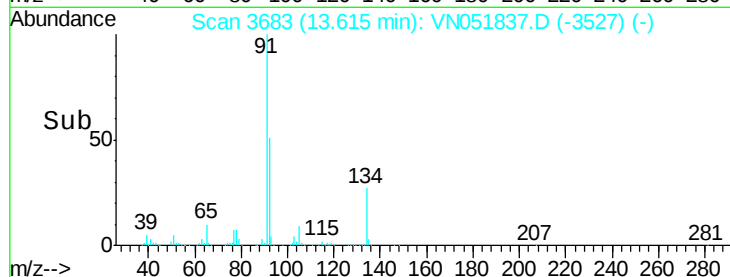
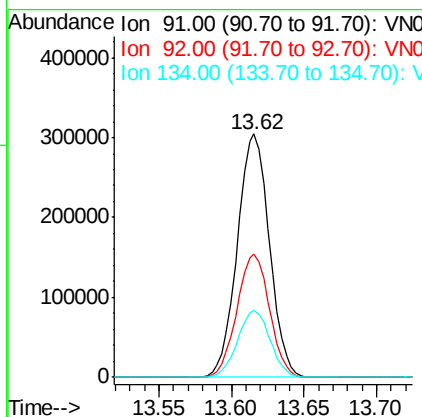
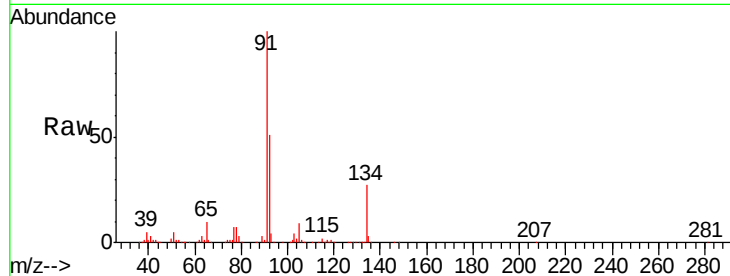
#85
n-Butylbenzene
Concen: 18.19 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.3	0.0	97.4
134	27.8	0.0	49.6

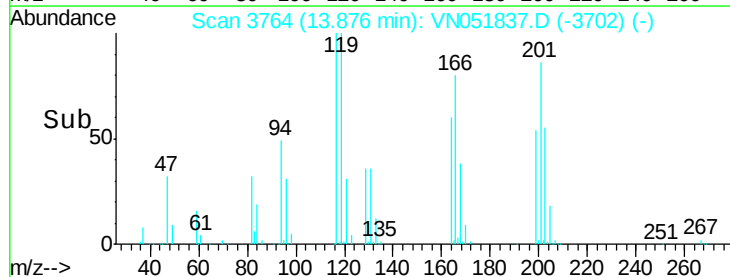
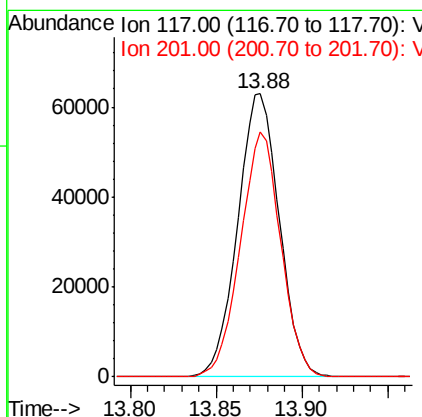
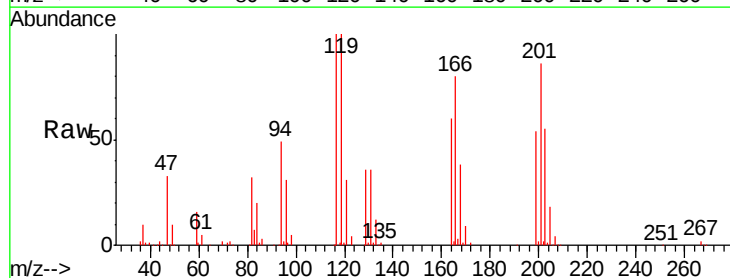
Manual Integrations
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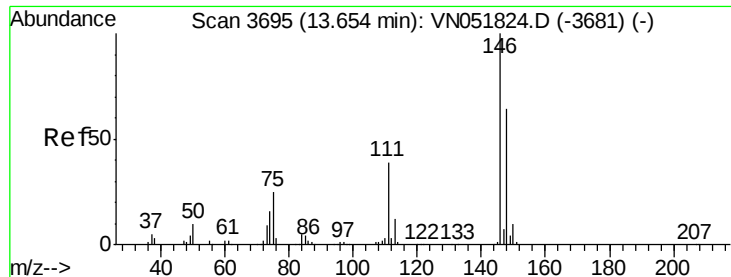
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#86
Hexachloroethane
Concen: 18.04 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.5	47.8	143.3





#87

1,2-Dichlorobenzene

Concen: 19.04 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

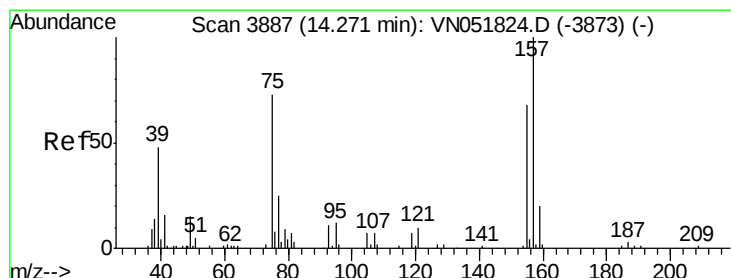
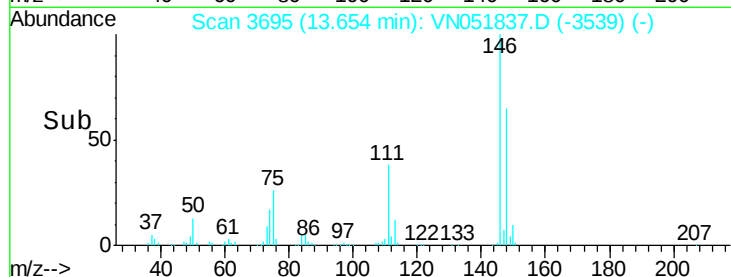
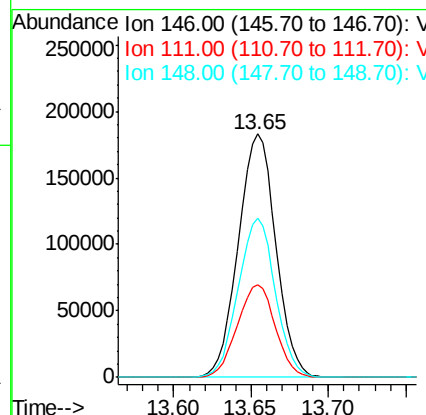
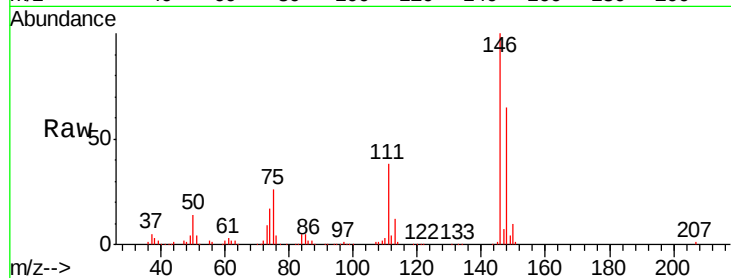
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	146	Resp:	309077
Ion Ratio		Lower	Upper
146	100		
111	38.4	20.8	62.2
148	64.6	33.2	99.6

Manual Integrations
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#88

1,2-Dibromo-3-Chloropropane

Concen: 18.84 ug/l

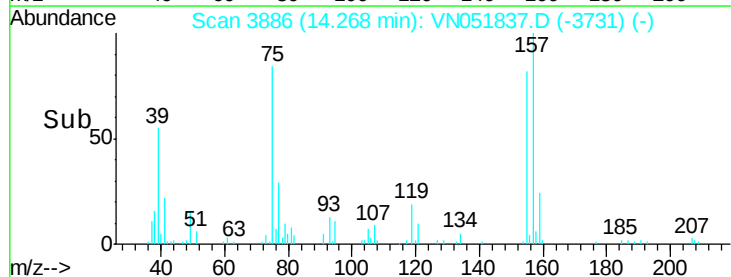
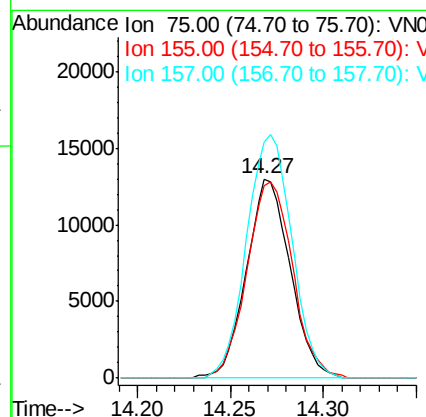
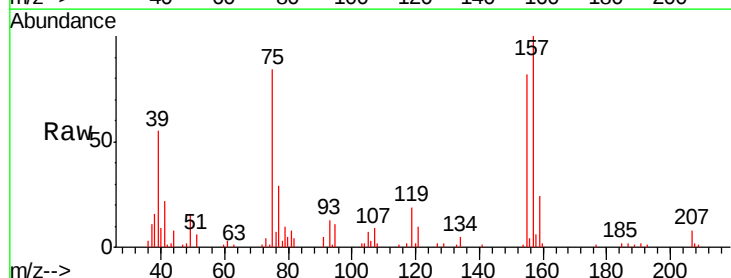
RT: 14.27 min Scan# 3886

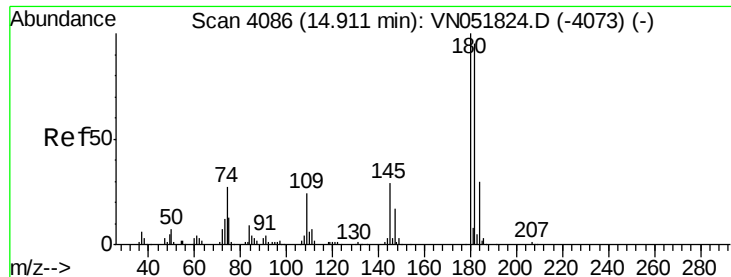
Delta R.T. -0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Tgt Ion:	75	Resp:	21309
Ion Ratio		Lower	Upper
75	100		
155	102.7	57.0	85.6#
157	126.4	87.4	131.0





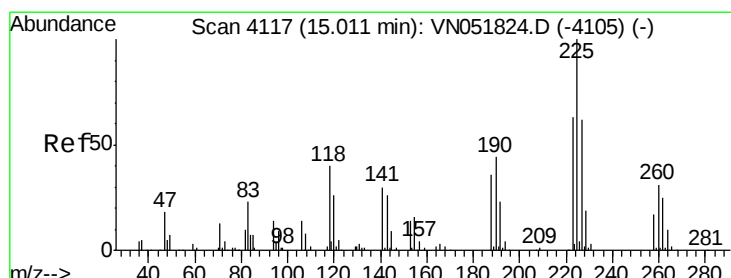
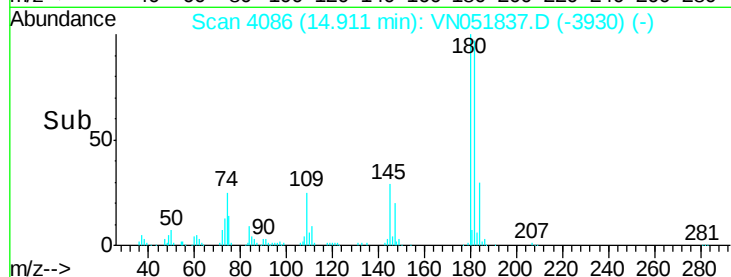
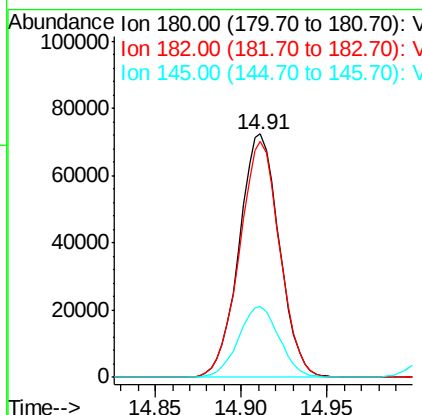
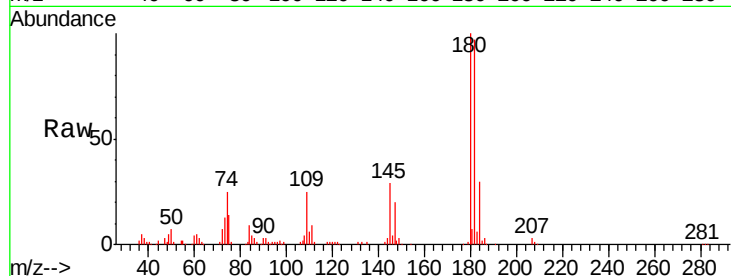
#89
 1,2,4-Trichlorobenzene
 Concen: 18.67 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.7	116.5
145	29.7	23.4	35.2

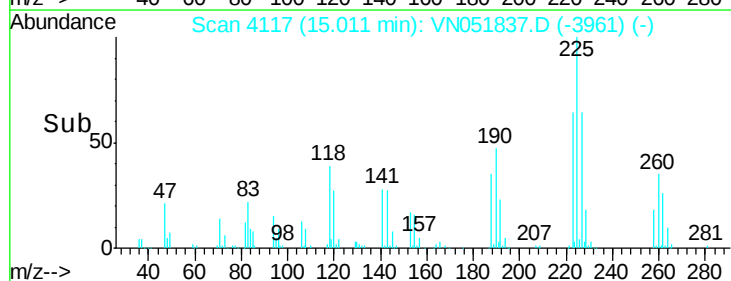
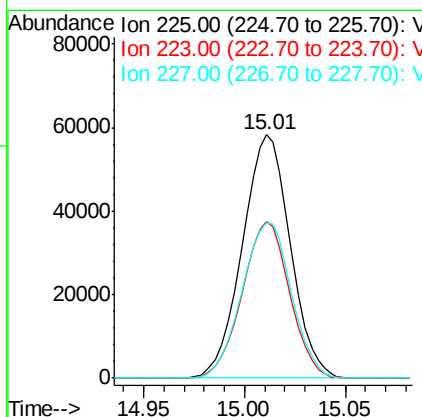
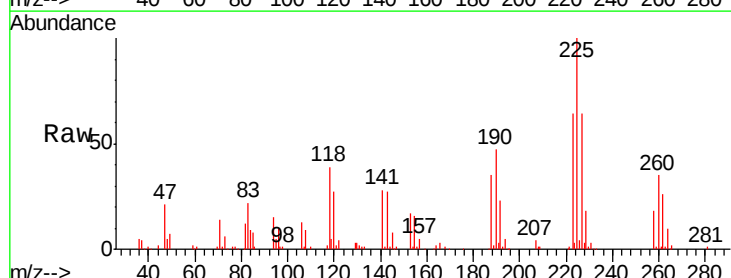
Manual Integrations
 APPROVED

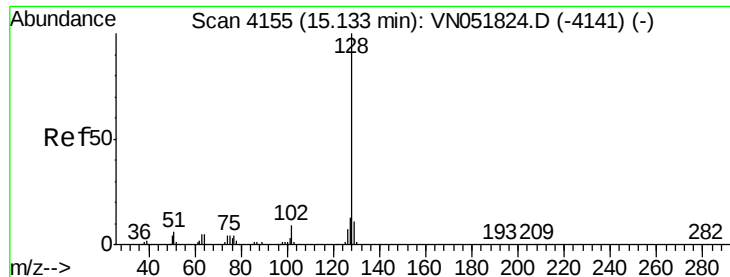
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#90
 Hexachlorobutadiene
 Concen: 18.51 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.6	0.0	117.0
227	65.7	0.0	127.0





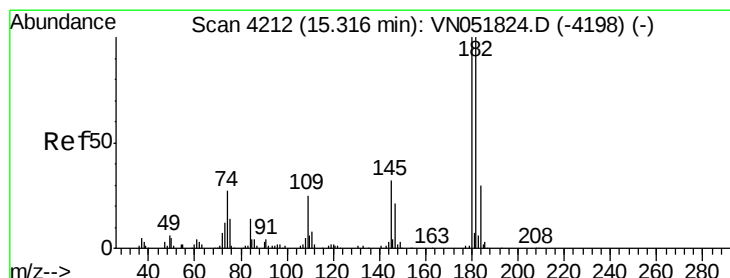
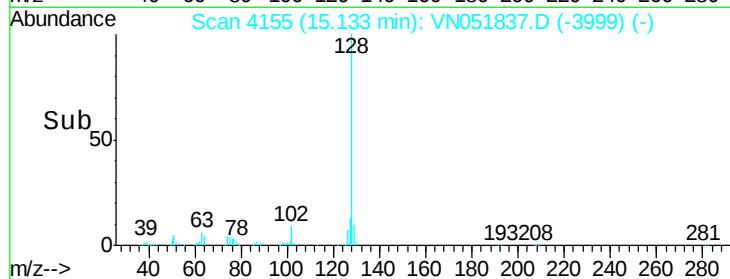
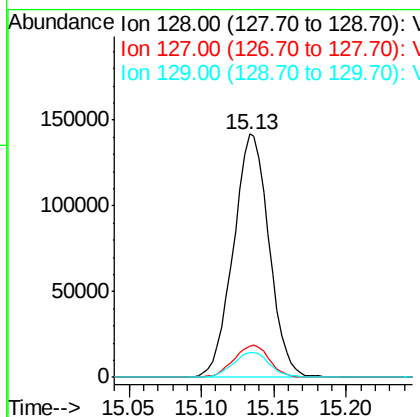
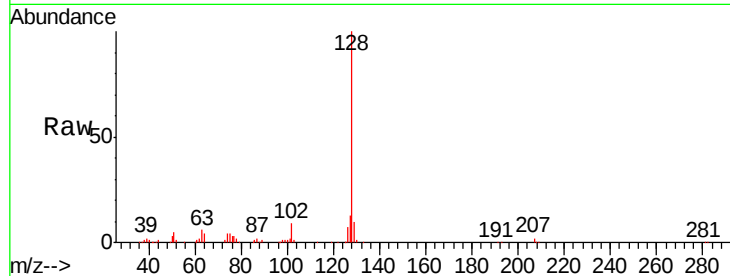
#91
Naphthalene
Concen: 19.48 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	242920		
127	13.2	10.1	15.1	
129	10.5	8.4	12.6	

Manual Integrations
APPROVED

MMDadoda
10/15/2018 11:28:03 AM



#92
1,2,3-Trichlorobenzene
Concen: 17.19 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	126944		
182	98.4	0.0	198.0	
145	30.8	0.0	36.8	

