

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050036.D
 Acq On : 25 Jul 2018 8:29
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:36 PM

Quant Time: Jul 26 15:12:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:10:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	123326	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	620588	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	535471	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	260399	30.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.90%
60) 4-Bromofluorobenzene	12.40	95	224667	27.64	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.13%
63) Toluene-d8	10.09	98	791363	30.14	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.47%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	34746	3.62	ug/l	98
3) Chloromethane	2.06	50	43412	4.73	ug/l	100
4) Vinyl Chloride	2.18	62	46661	4.74	ug/l	99
5) Bromomethane	2.56	94	31506	5.33	ug/l	94
6) Chloroethane	2.70	64	30010	5.19	ug/l	97
7) Trichlorofluoromethane	3.01	101	63881	4.88	ug/l	98
8) Diethyl Ether	3.41	74	20383	5.06	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	40107	5.02	ug/l	98
10) 1,1-Dichloroethene	3.73	96	32412	4.72	ug/l	92
11) Methyl Iodide	3.95	142	40188	4.10	ug/l	95
12) Methyl Acetate	4.33	43	34892	4.44	ug/l	96
13) Acrolein	3.61	56	15654	37.72	ug/l	99
14) Acrylonitrile	4.99	53	55669	22.29	ug/l	99
15) Acetone	3.82	58	16705	23.72	ug/l	96
16) Carbon Disulfide	4.05	76	104457	5.02	ug/l	100
17) Allyl chloride	4.32	41	47802	4.61	ug/l	98
18) Methylene Chloride	4.55	84	40689	5.17	ug/l	94
19) trans-1,2-Dichloroethene	5.04	96	34357	4.69	ug/l	97
20) Diisopropyl ether	5.96	45	91883	4.14	ug/l	91
21) 1,1-Dichloroethane	5.85	63	70620	5.11	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	37093	4.67	ug/l	97
23) tert-Butyl Alcohol	4.81	59	12100m	21.94	ug/l	
24) Methyl tert-Butyl Ether	5.05	73	76750	4.23	ug/l	97
25) Chloroform	7.37	83	71659	5.06	ug/l	99
26) Cyclohexane	7.65	56	44584	4.09	ug/l #	99
29) 1,1-Dichloropropene	7.79	75	44739	4.43	ug/l	99
30) 2-Butanone	6.84	43	71594	24.01	ug/l #	96
31) 2,2-Dichloropropane	6.83	77	57060	5.18	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	61300	5.25	ug/l	100
33) Carbon Tetrachloride	7.78	117	54511	5.29	ug/l	93
34) Benzene	8.05	78	148914	4.93	ug/l #	79
35) Methacrylonitrile	7.17	41	17188	5.28	ug/l	94
36) 1,2-Dichloroethane	8.13	62	52849	5.34	ug/l	97
37) Trichloroethene	8.83	130	40672	5.18	ug/l	95
38) Methylcyclohexane	9.08	83	45828	4.53	ug/l	96
39) 1,2-Dichloropropane	9.12	63	40083	5.05	ug/l	99
40) Dibromomethane	9.21	93	25121	5.21	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050036.D
 Acq On : 25 Jul 2018 8:29
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:36 PM

Quant Time: Jul 26 15:12:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:10:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	53036	5.19	ug/l	97
42) Vinyl Acetate	5.90	43	299354	21.21	ug/l	99
43) Ethyl Acetate	6.94	43	27986	4.35	ug/l #	71
44) Isopropyl Acetate	8.17	43	55728	4.73	ug/l #	91
45) 1,4-Dioxane	9.20	88	6416	83.36	ug/l	92
46) Methyl methacrylate	9.20	41	23683	4.23	ug/l	97
47) n-amyl Acetate	12.07	43	32056	3.82	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	45799	4.75	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	51003	4.52	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	36296	5.24	ug/l	98
51) Ethyl methacrylate	10.43	69	33544	4.34	ug/l	98
52) 1,3-Dichloropropane	10.71	76	56143	4.93	ug/l	100
53) Dibromochloromethane	10.90	129	39410	5.09	ug/l	98
54) 1,2-Dibromoethane	11.01	107	32570	4.88	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	67981	18.60	ug/l	97
56) Bromoform	12.13	173	26078	4.91	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	138885	21.84	ug/l	97
59) 2-Hexanone	10.75	43	90988	21.46	ug/l	93
61) Tetrachloroethene	10.63	164	41233	5.31	ug/l	98
62) Toluene	10.16	91	159642	5.02	ug/l	99
64) Chlorobenzene	11.44	112	93680	4.96	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	38381	5.14	ug/l	100
66) Ethyl Benzene	11.51	91	137035	4.35	ug/l	99
67) m/p-Xylenes	11.62	106	104172	8.33	ug/l	98
68) o-Xylene	11.95	106	49970	4.35	ug/l	99
69) Styrene	11.97	104	71737	3.81	ug/l	97
70) Isopropylbenzene	12.25	105	129975	4.17	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	43268	5.17	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	36030m	3.57	ug/l	
73) Bromobenzene	12.53	156	39052	4.78	ug/l	97
74) n-propylbenzene	12.59	91	151485	4.13	ug/l	100
75) 2-Chlorotoluene	12.68	91	97675	4.45	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	103999	3.96	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	9459	4.35	ug/l	91
78) 4-Chlorotoluene	12.78	91	90787	4.18	ug/l	98
79) tert-butylbenzene	12.99	119	91493	4.20	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	101597	3.82	ug/l	100
81) sec-Butylbenzene	13.17	105	124168	4.12	ug/l	99
82) p-Isopropyltoluene	13.29	119	94787	3.70	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	64260	4.48	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	55854	4.12	ug/l	100
85) n-Butylbenzene	13.62	91	70960	3.56	ug/l	98
86) Hexachloroethane	13.88	117	25188	4.99	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	61965	4.32	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	5951	4.60	ug/l	90
89) 1,2,4-Trichlorobenzene	14.91	180	17647	2.83	ug/l	97
90) Hexachlorobutadiene	15.01	225	21740	4.66	ug/l	96
91) Naphthalene	15.14	128	33008	2.69	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	20978	3.20	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
Data File : VN050036.D
Acq On : 25 Jul 2018 8:29
Operator : MD\SY
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

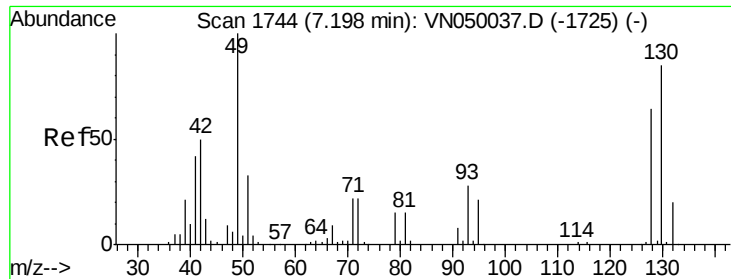
Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:36 PM

Quant Time: Jul 26 15:12:16 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:10:52 2018
Response via : Initial Calibration

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

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



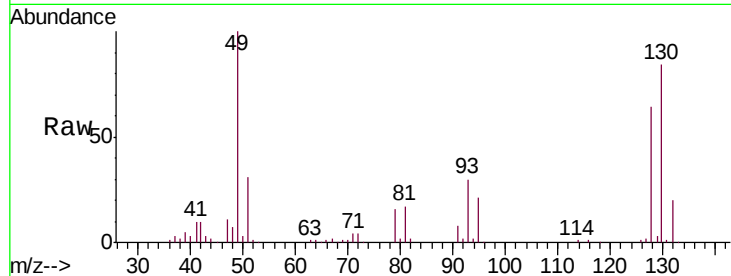
#1
 Bromochloromethane
 Concen: 30.00 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

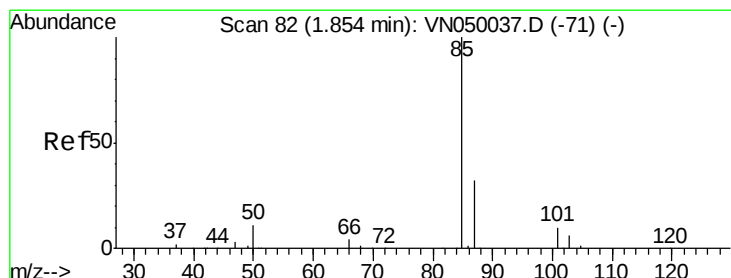
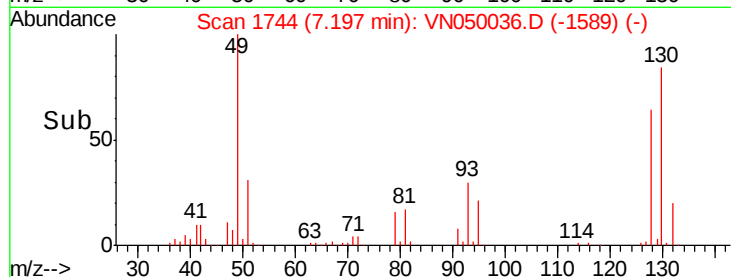
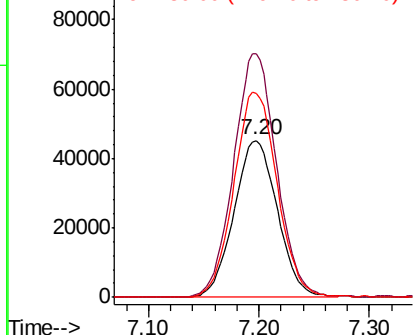
Tot Ion	Ratio	Lower	Upper
128	100		
49	153.7	0.0	378.3
130	130.5	0.0	320.7

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:36 PM

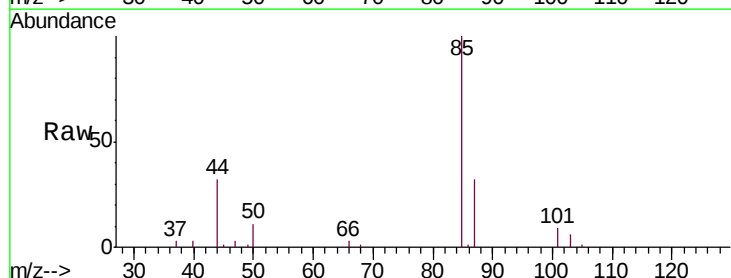


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

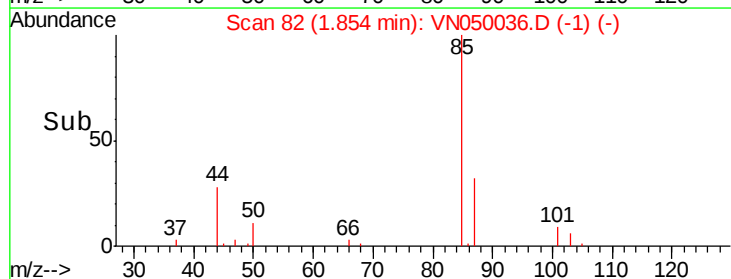
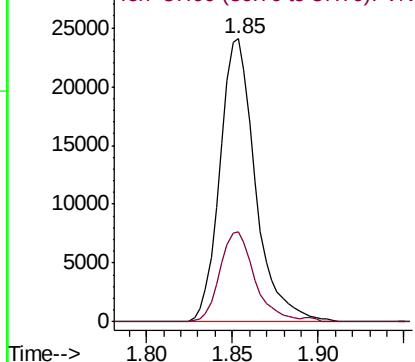


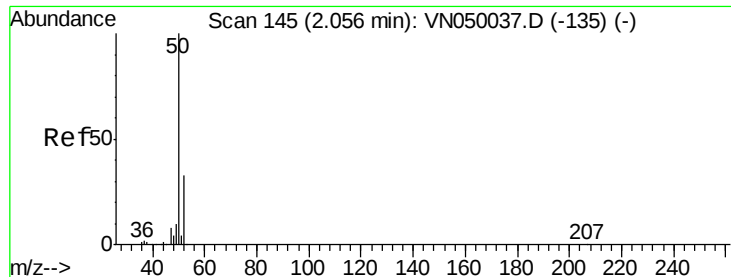
#2
 Dichlorodifluoromethane
 Concen: 3.62 ug/l
 RT: 1.85 min Scan# 82
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.9	15.4	46.4



Abundance Ion 85.00 (84.70 to 85.70): VN
 Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 4.73 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 43412

Ion Ratio Lower Upper

50 100

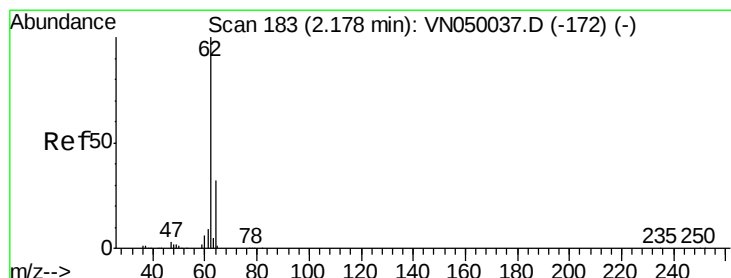
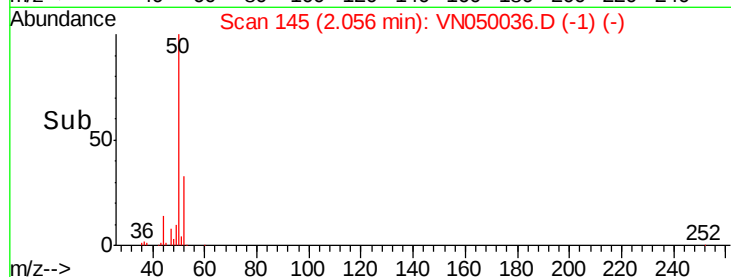
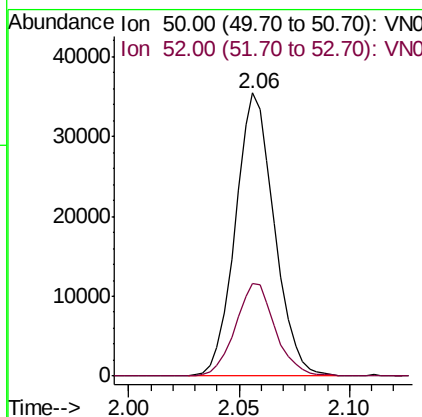
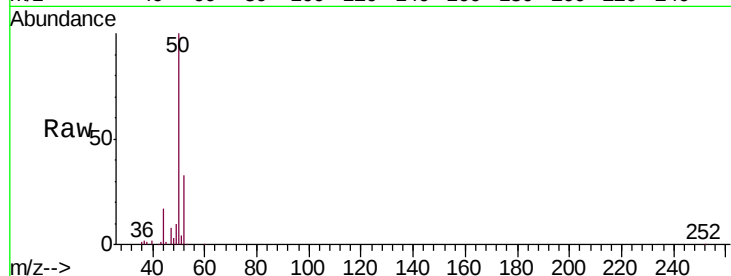
52 32.7 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:36 PM



#4

Vinyl Chloride

Concen: 4.74 ug/l

RT: 2.18 min Scan# 183

Delta R.T. -0.00 min

Lab File: VN050036.D

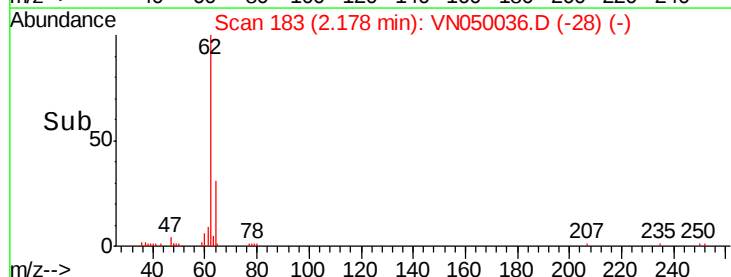
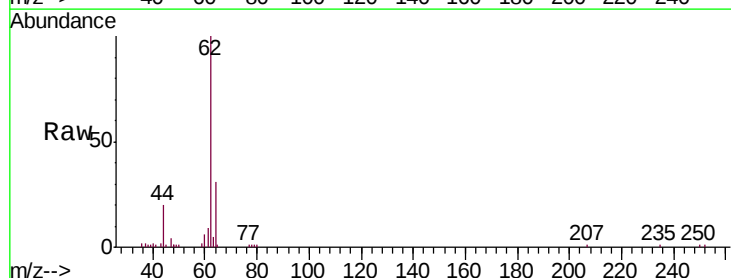
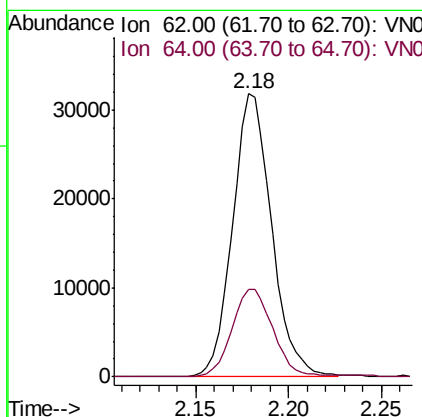
Acq: 25 Jul 2018 8:29

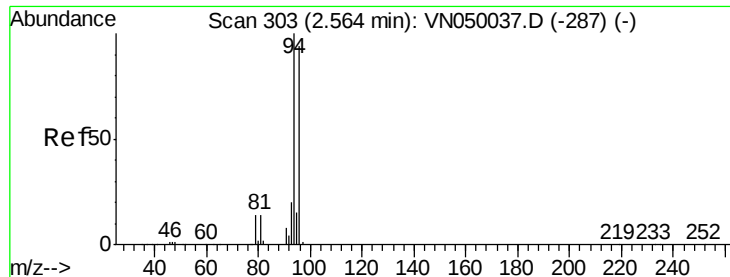
Tgt Ion: 62 Resp: 46661

Ion Ratio Lower Upper

62 100

64 31.0 24.4 36.6





#5

Bromomethane

Concen: 5.33 ug/l

RT: 2.56 min Scan# 303

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 31506

Ion Ratio Lower Upper

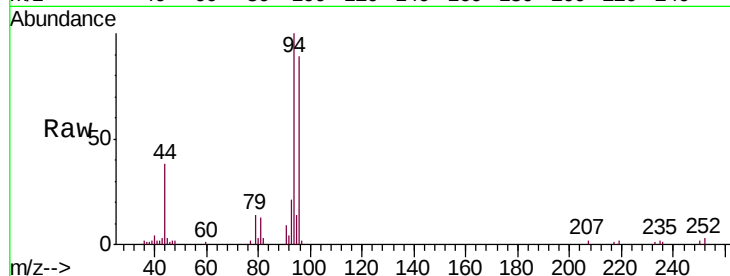
94 100

96 89.2 75.9 113.9

Manual Integrations
APPROVED

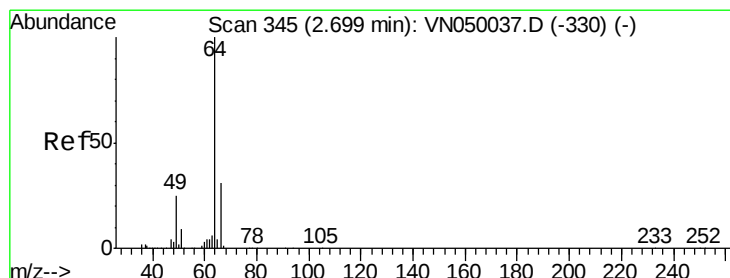
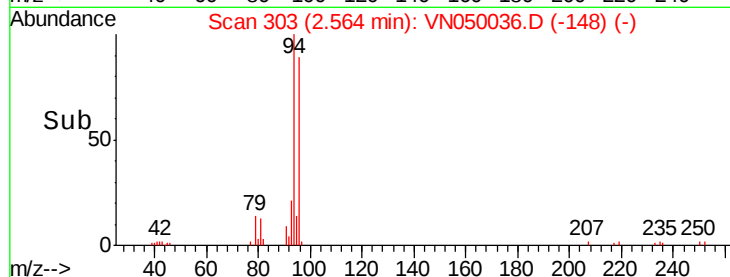
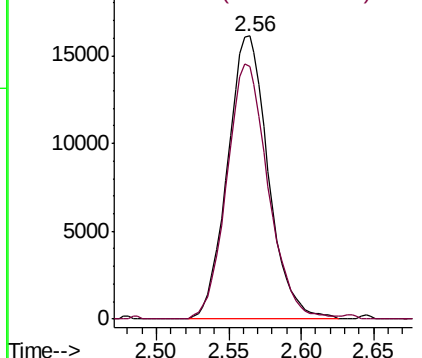
MMDadoda

7/26/2018 3:53:36 PM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 5.19 ug/l

RT: 2.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VN050036.D

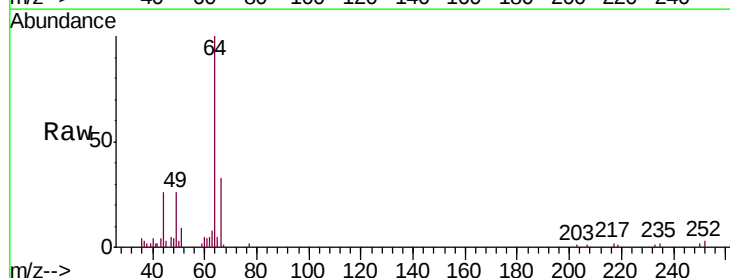
Acq: 25 Jul 2018 8:29

Tgt Ion: 64 Resp: 30010

Ion Ratio Lower Upper

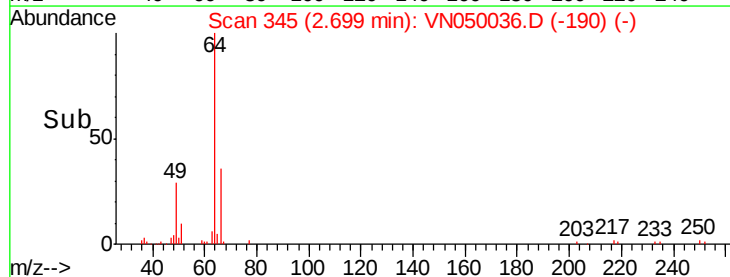
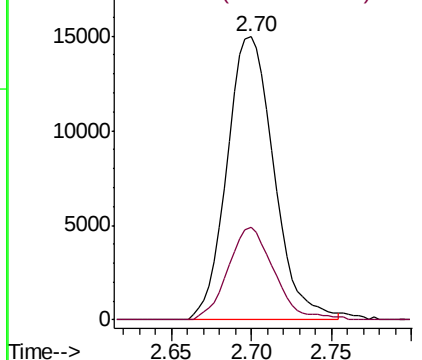
64 100

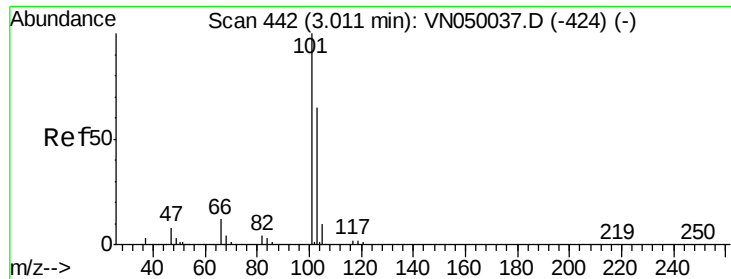
66 32.9 25.0 37.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

Trichlorofluoromethane

Concen: 4.88 ug/l

RT: 3.01 min Scan# 442

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 63881

Ion Ratio Lower Upper

101 100

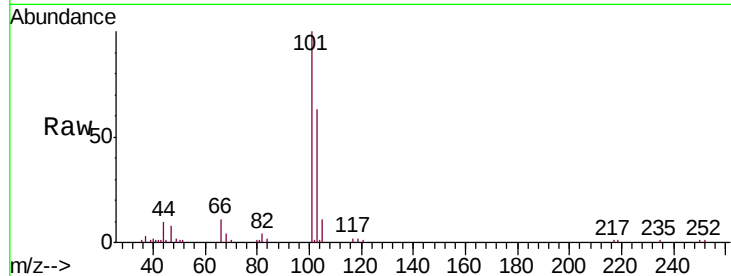
103 62.5 51.5 77.3

Manual Integrations

APPROVED

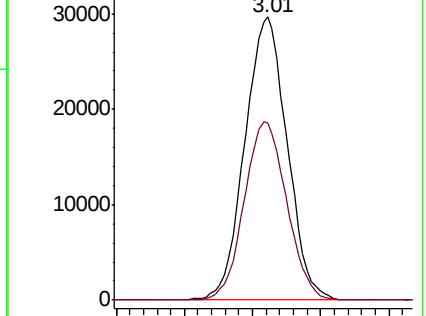
MMDadoda

7/26/2018 3:53:36 PM

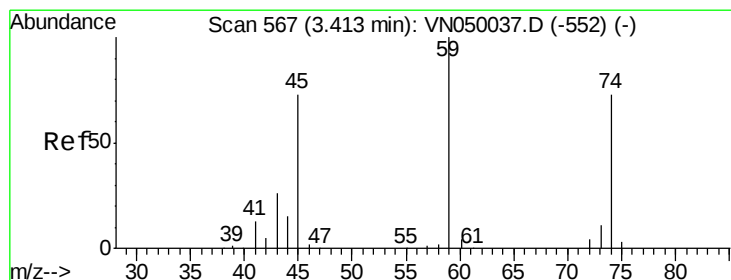
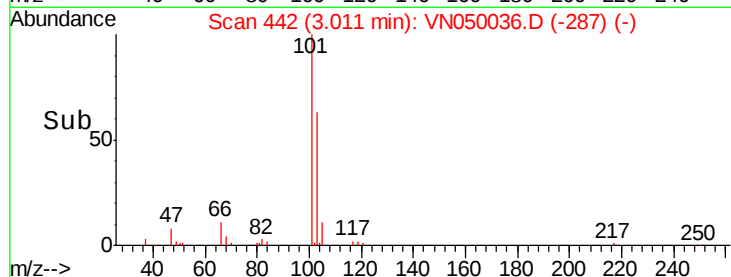


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#8

Diethyl Ether

Concen: 5.06 ug/l

RT: 3.41 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN050036.D

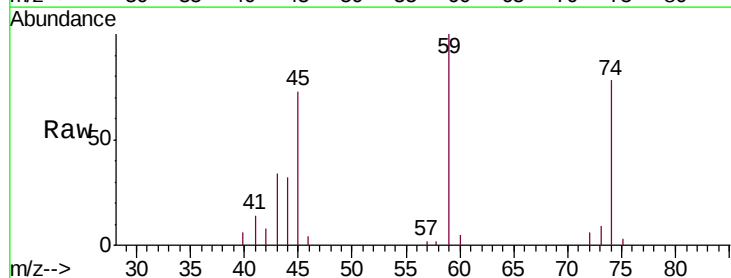
Acq: 25 Jul 2018 8:29

Tgt Ion: 74 Resp: 20383

Ion Ratio Lower Upper

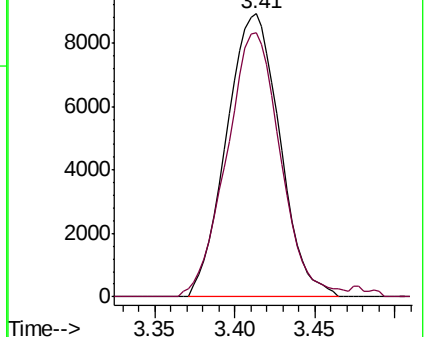
74 100

45 94.0 18.7 167.9

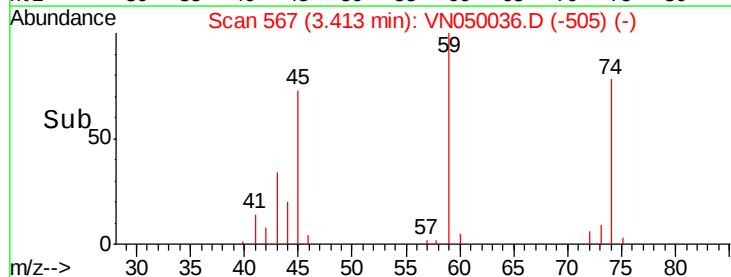


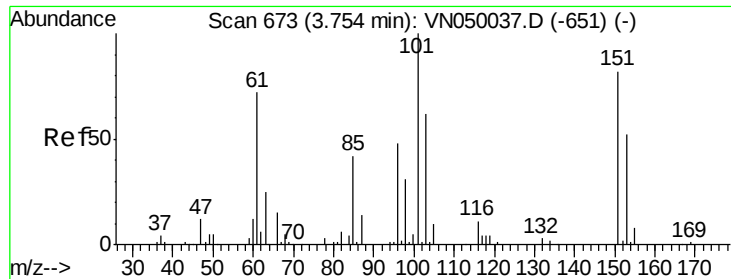
Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO



Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.02 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

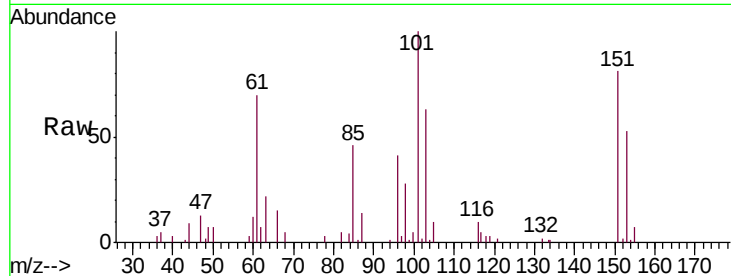
ClientSampleId :

VSTDIC005

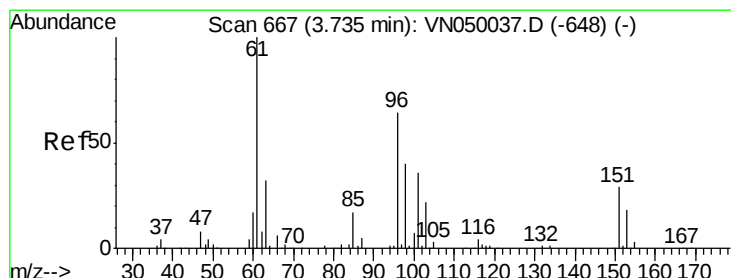
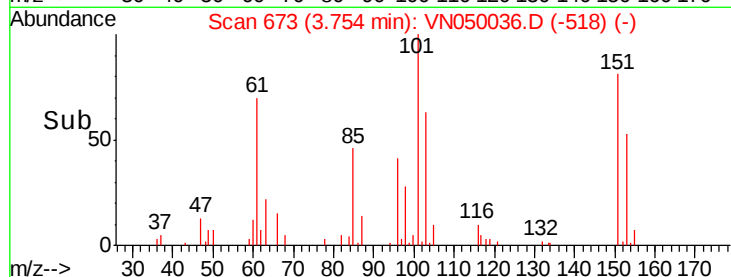
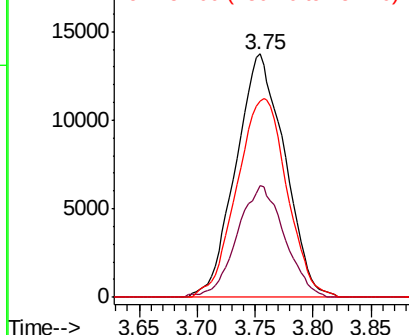
Tot Ion:	101	Resp:	40107
Ion Ratio	Lower	Upper	
101	100		
85	44.5	0.0	83.0
151	84.0	0.0	166.8

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:36 PM



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): V
Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 4.72 ug/l

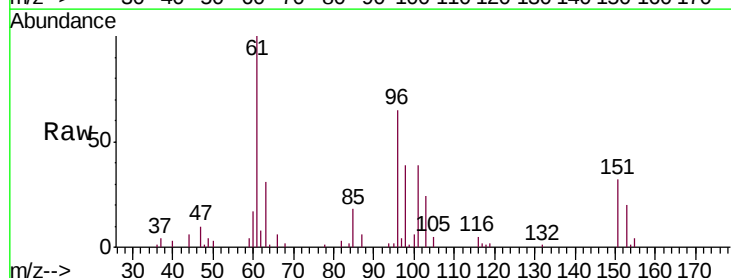
RT: 3.73 min Scan# 667

Delta R.T. -0.00 min

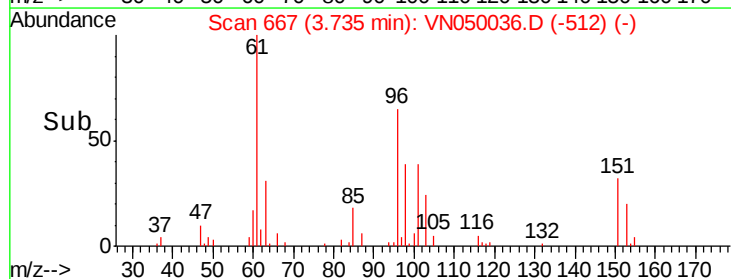
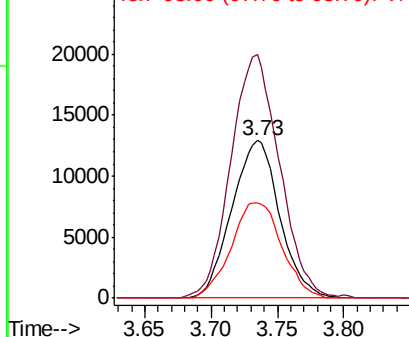
Lab File: VN050036.D

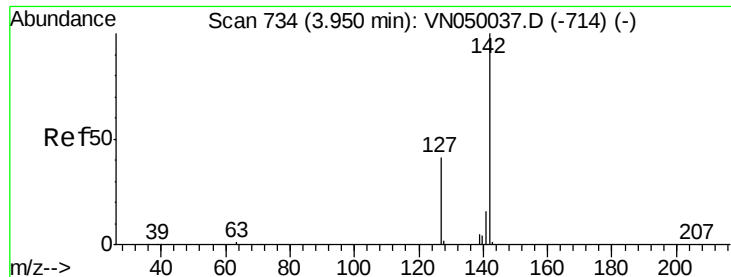
Acq: 25 Jul 2018 8:29

Tgt Ion:	96	Resp:	32412
Ion Ratio	Lower	Upper	
96	100		
61	153.3	130.6	195.8
98	60.5	53.5	80.3



Abundance Ion 96.00 (95.70 to 96.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 98.00 (97.70 to 98.70): V





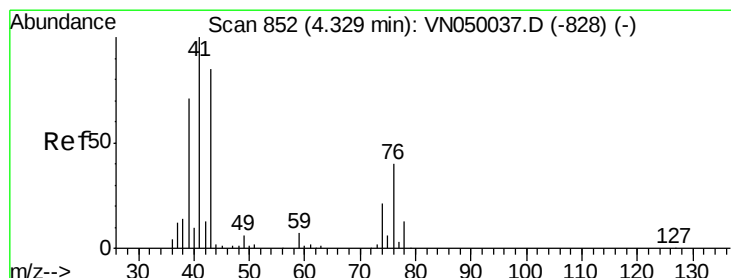
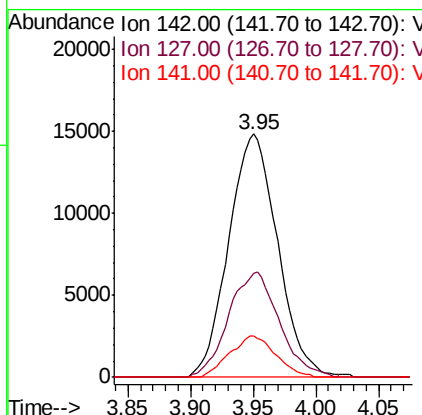
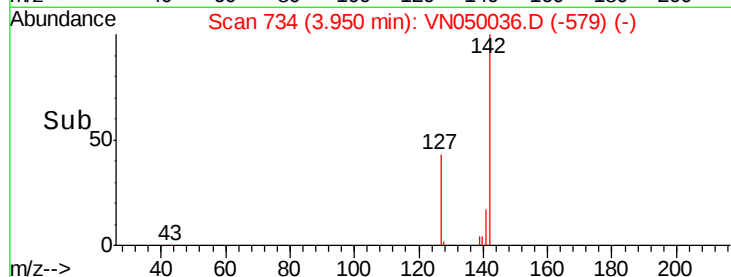
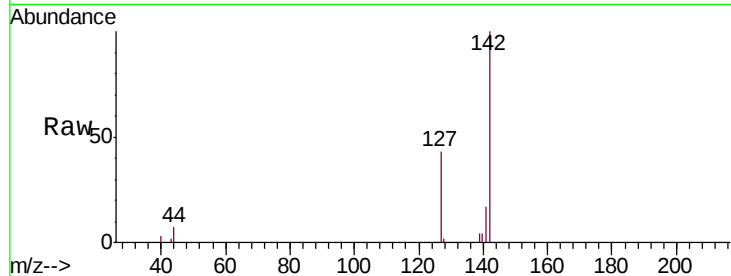
#11
Methyl Iodide
Concen: 4.10 ug/l
RT: 3.95 min Scan# 734
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
142	100		
127	42.8	20.2	60.5
141	17.1	6.9	20.6

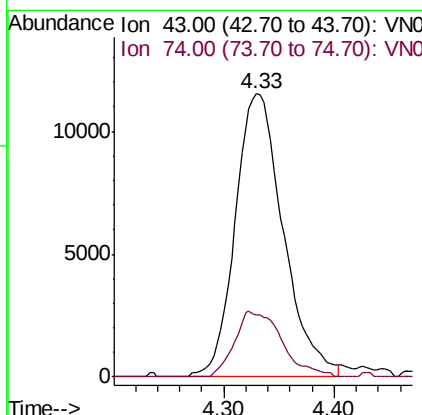
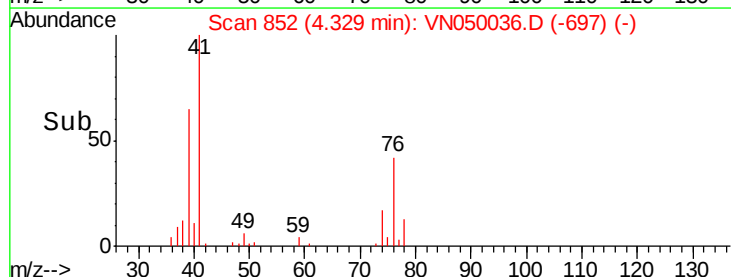
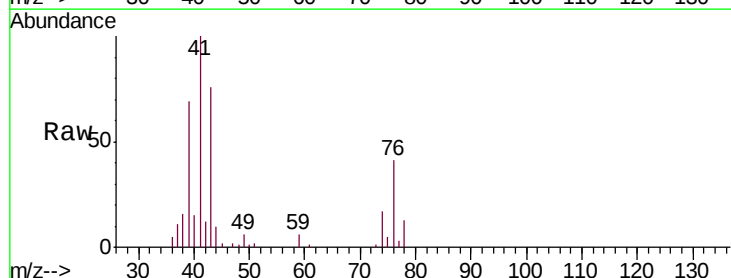
Manual Integrations
APPROVED

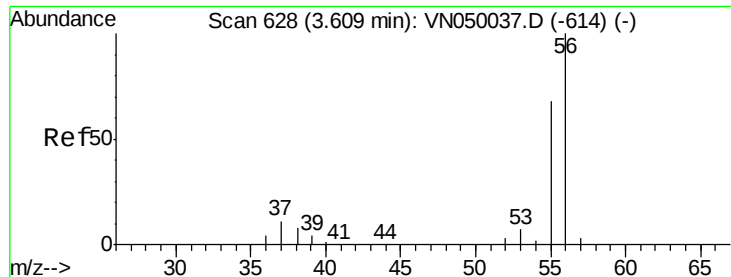
MMDadoda
7/26/2018 3:53:36 PM



#12
Methyl Acetate
Concen: 4.44 ug/l
RT: 4.33 min Scan# 852
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.3	19.3	28.9





#13

Acrolein

Concen: 37.72 ug/l

RT: 3.61 min Scan# 628

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 15654

Ion Ratio Lower Upper

56 100

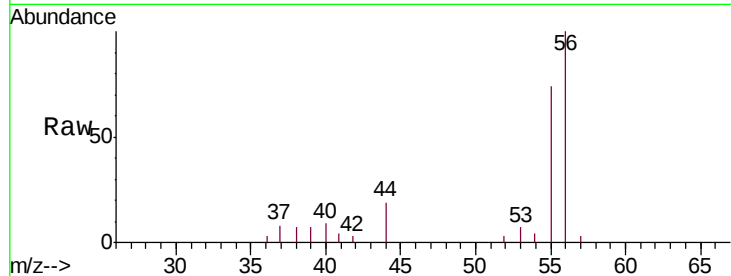
55 74.4 58.6 88.0

Manual Integrations

APPROVED

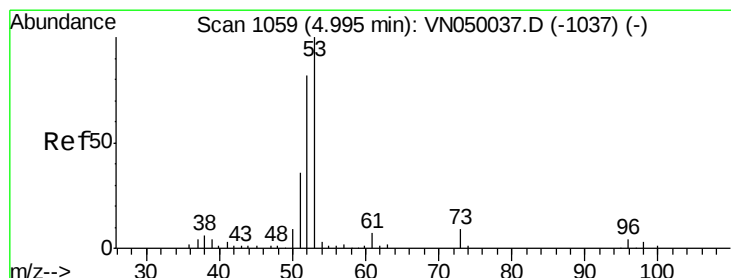
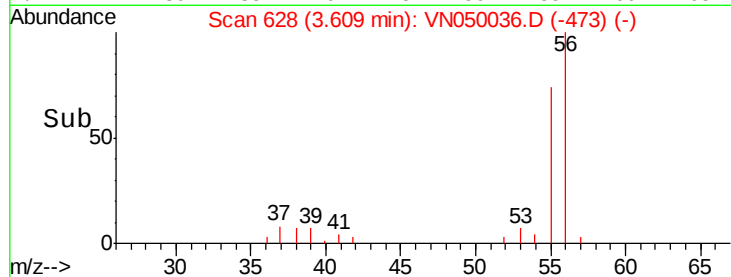
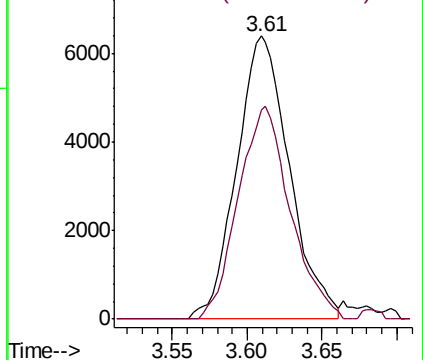
MMDadoda

7/26/2018 3:53:36 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 22.29 ug/l

RT: 4.99 min Scan# 1059

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

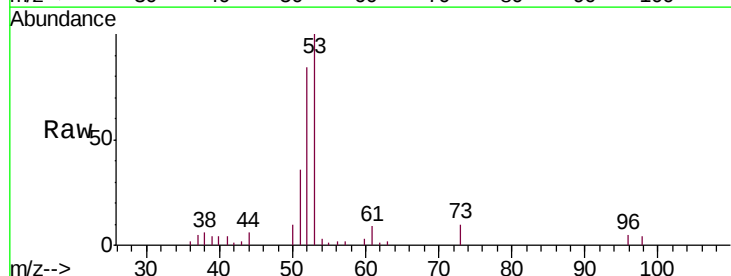
Tgt Ion: 53 Resp: 55669

Ion Ratio Lower Upper

53 100

52 81.9 41.5 124.5

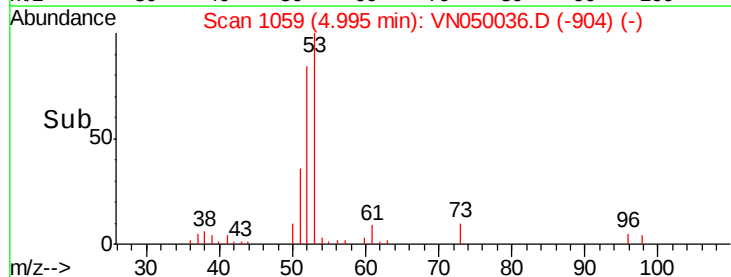
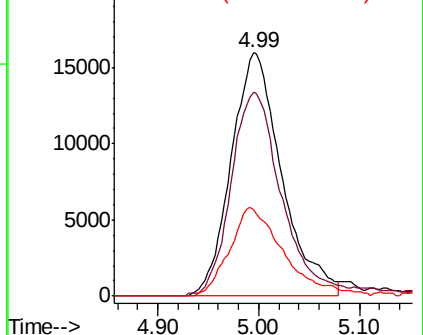
51 37.0 18.7 56.1

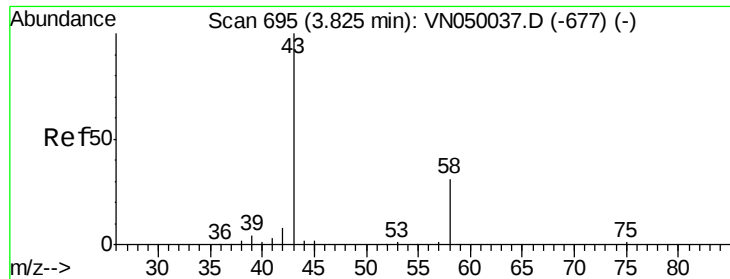


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 23.72 ug/l

RT: 3.82 min Scan# 695

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 58 Resp: 16705

Ion Ratio Lower Upper

58 100

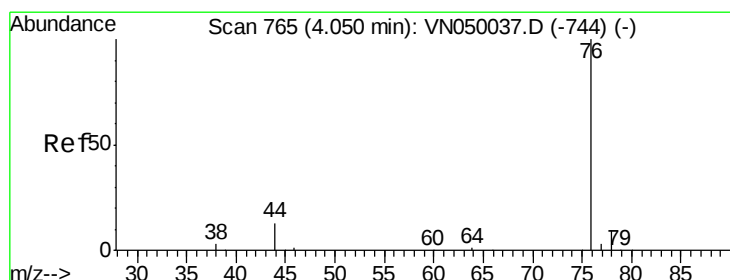
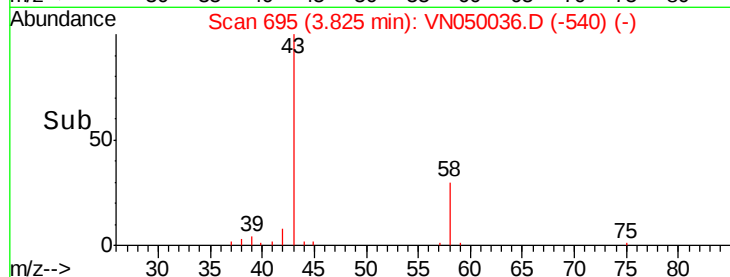
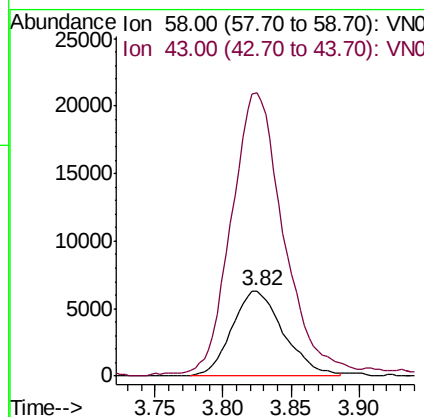
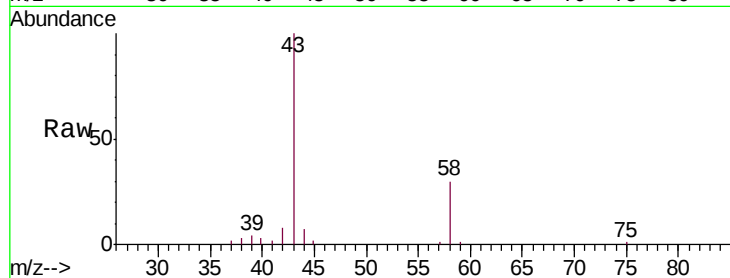
43 323.9 252.0 378.0

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:36 PM



#16

Carbon Disulfide

Concen: 5.02 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN050036.D

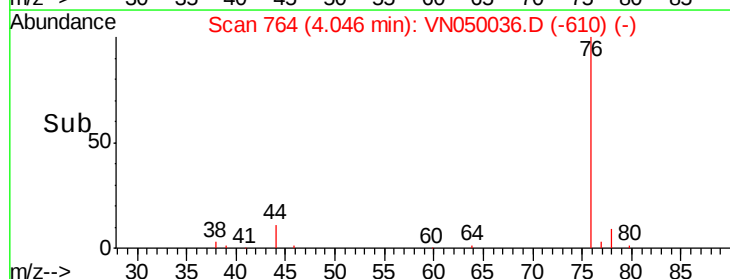
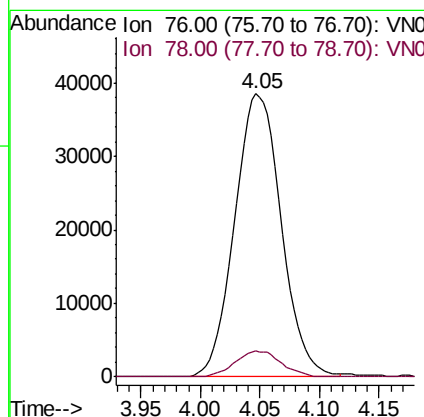
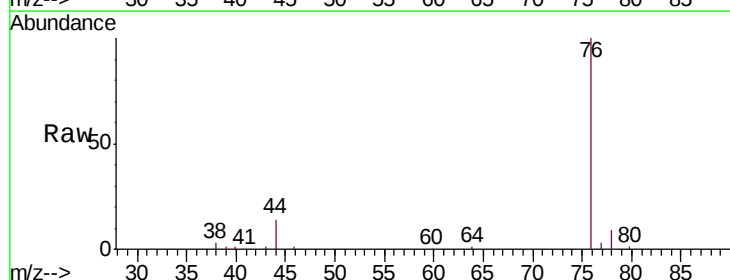
Acq: 25 Jul 2018 8:29

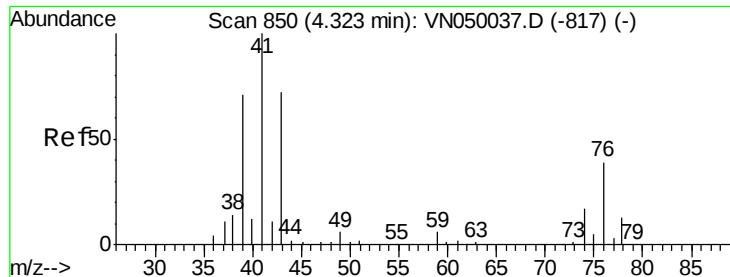
Tgt Ion: 76 Resp: 104457

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





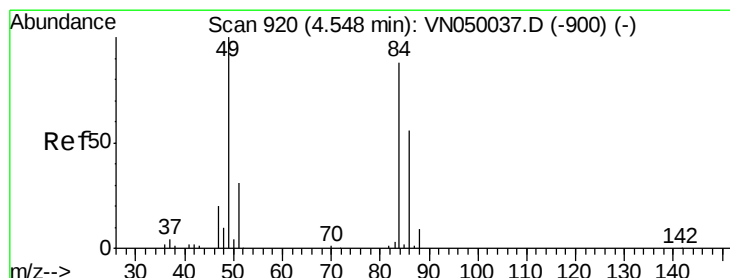
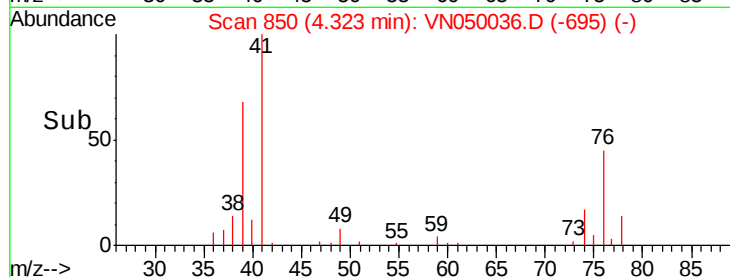
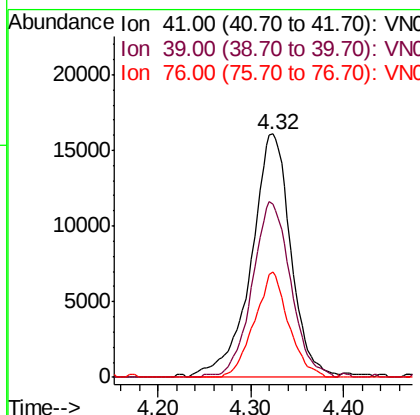
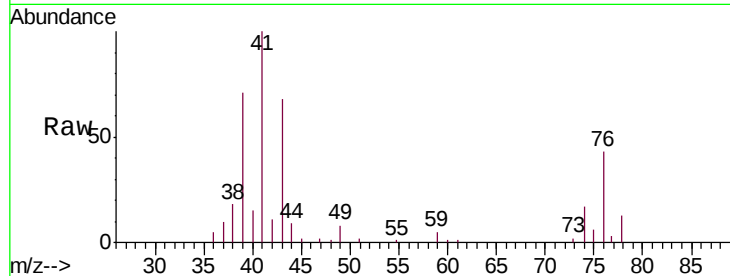
#17
Allvl chloride
Concen: 4.61 ug/l
RT: 4.32 min Scan# 850
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	71.3	35.4	106.3
76	43.2	19.7	59.1

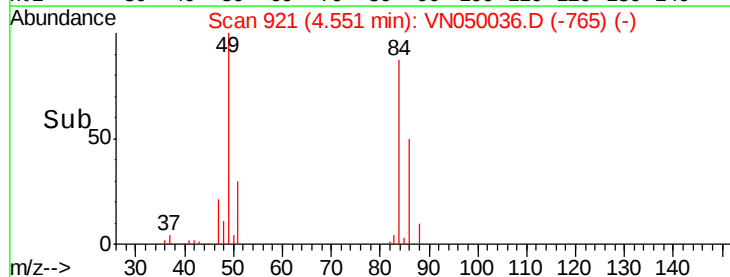
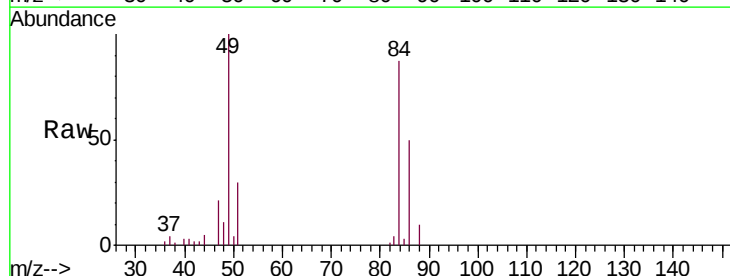
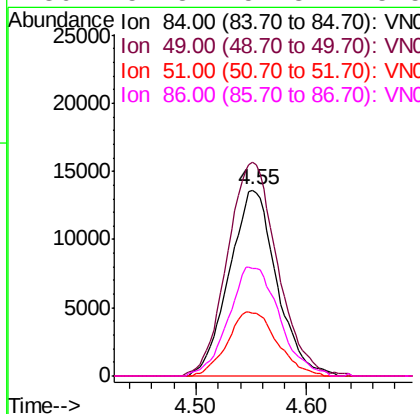
Manual Integrations
APPROVED

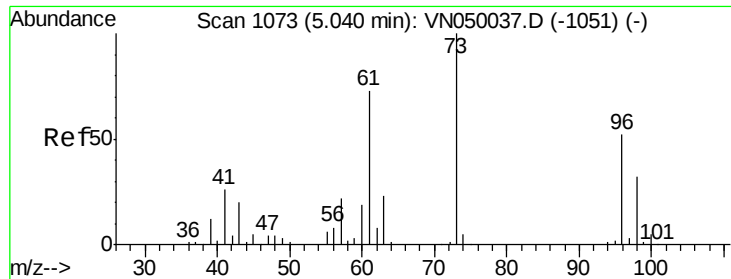
MMDadoda
7/26/2018 3:53:36 PM



#18
Methylene Chloride
Concen: 5.17 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
84	100		
49	113.5	95.1	142.7
51	33.9	28.8	43.2
86	57.8	52.3	78.5





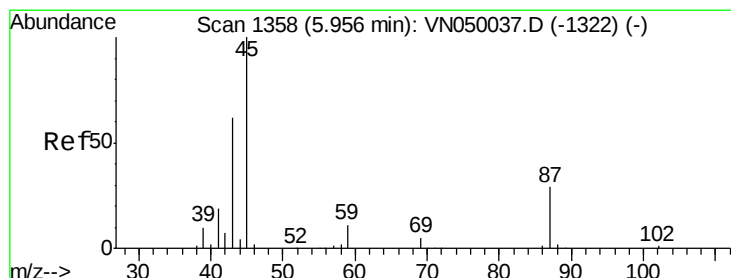
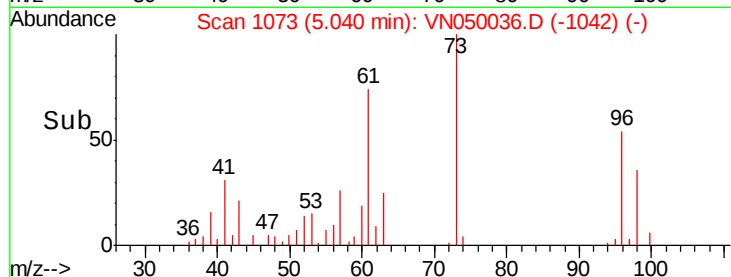
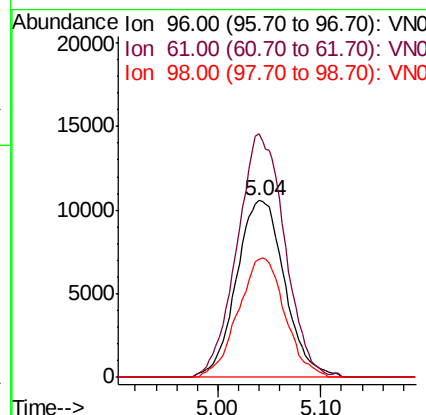
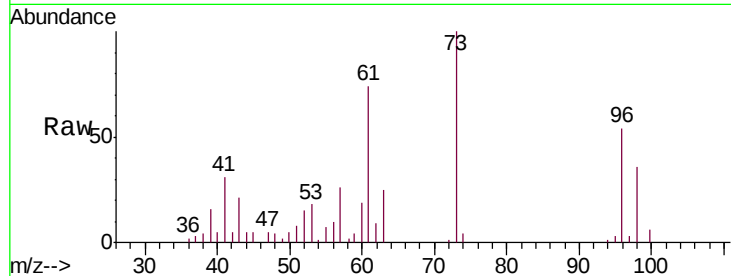
#19
trans-1,2-Dichloroethene
Concen: 4.69 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.7	112.1	168.1
98	67.1	51.3	76.9

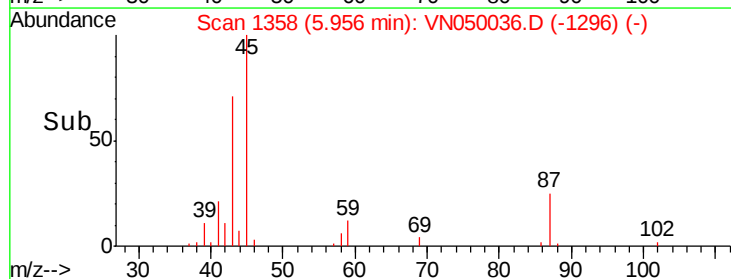
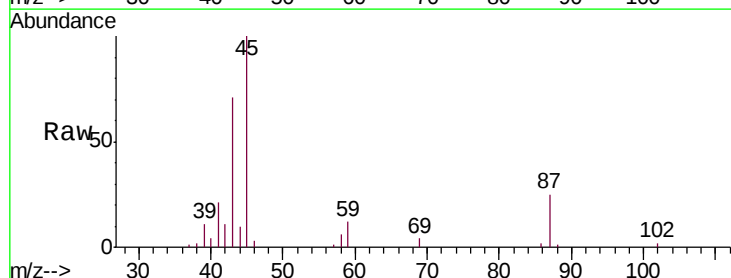
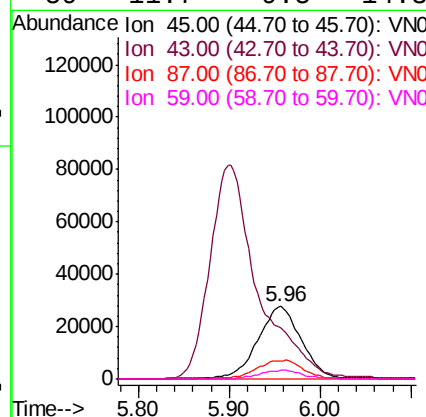
Manual Integrations
APPROVED

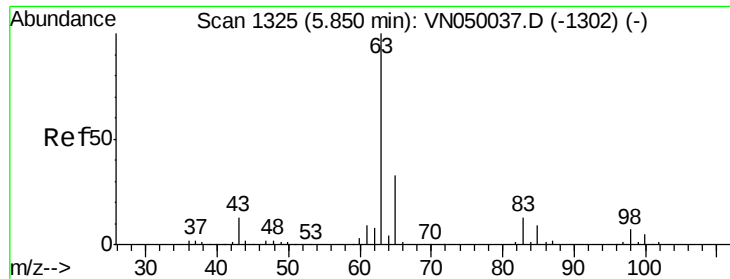
MMDadoda
7/26/2018 3:53:36 PM



#20
Diisopropyl ether
Concen: 4.14 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
45	100		
43	66.5	46.6	70.0
87	24.1	22.3	33.5
59	11.7	9.5	14.3





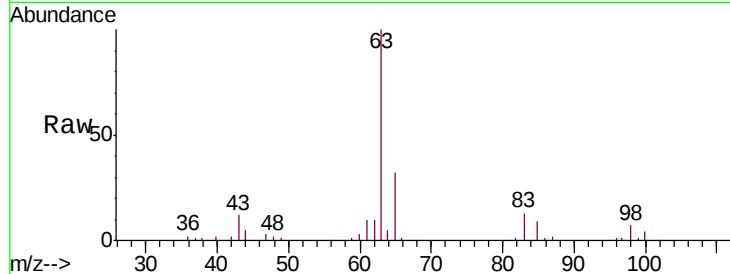
#21
 1,1-Dichloroethane
 Concen: 5.11 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

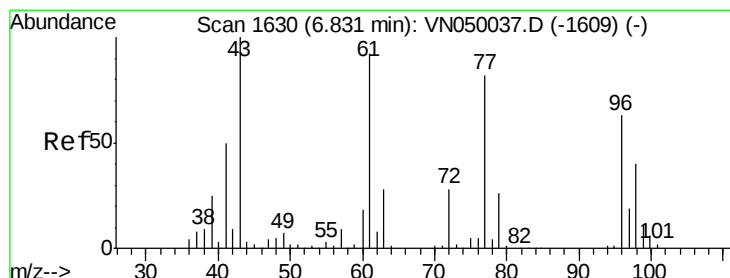
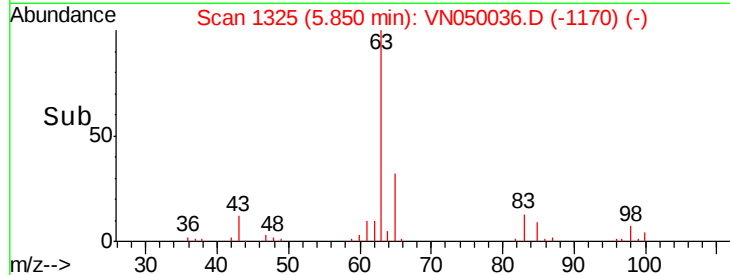
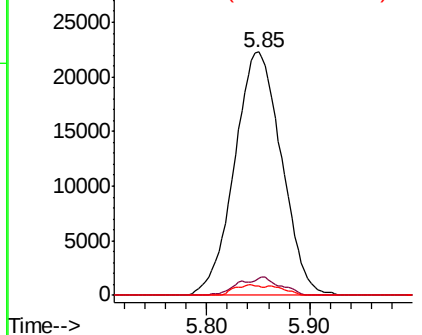
Tot Ion:	63	Resp:	70620
Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.6
100	3.7	2.3	6.8

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:36 PM

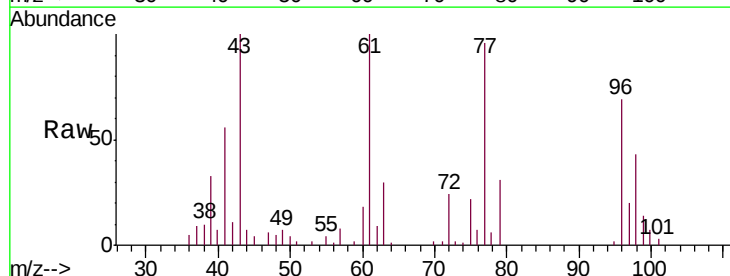


Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0

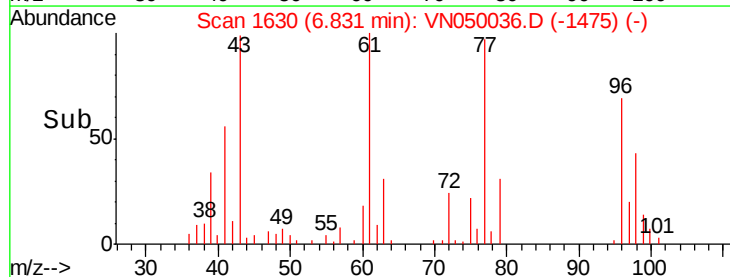
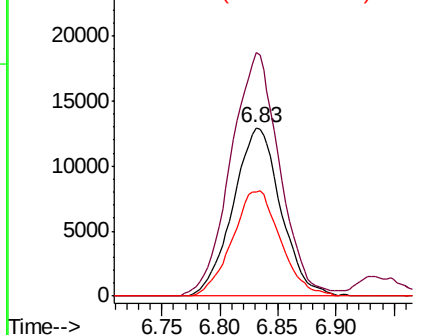


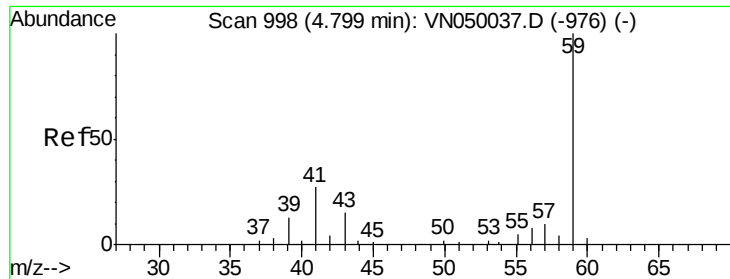
#22
 cis-1,2-Dichloroethene
 Concen: 4.67 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion:	96	Resp:	37093
Ion	Ratio	Lower	Upper
96	100		
61	148.1	114.2	171.2
98	63.4	51.7	77.5



Abundance Ion 96.00 (95.70 to 96.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0





#23

tert-Butyl Alcohol

Concen: 21.94 ug/l m

RT: 4.81 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 59 Resp: 12100

Ion Ratio Lower Upper

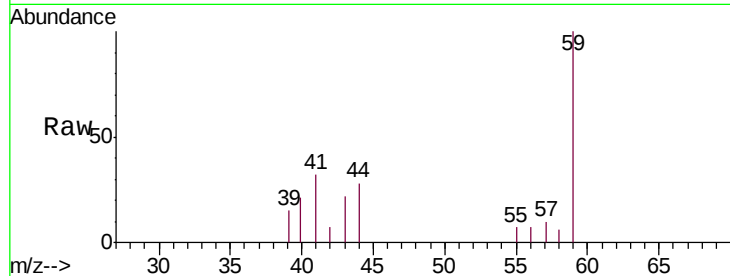
59 100

52 0.8 0.1 0.1#

Manual Integrations
APPROVED

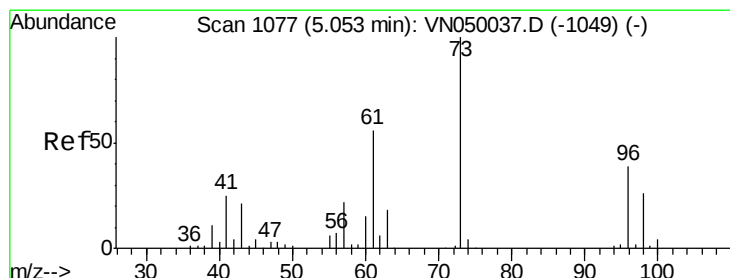
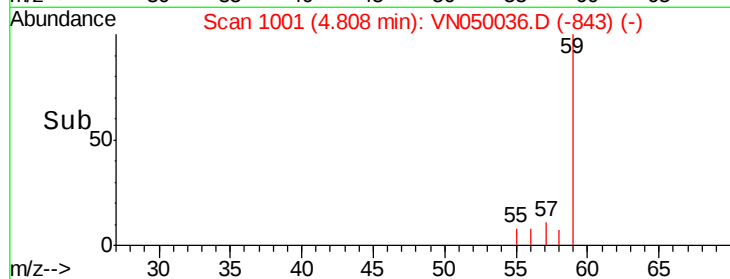
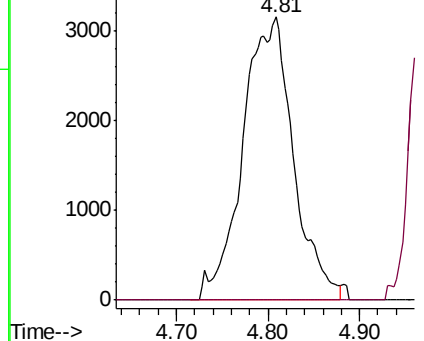
MMDadoda

7/26/2018 3:53:36 PM



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#24

Methyl tert-Butyl Ether

Concen: 4.23 ug/l

RT: 5.05 min Scan# 1076

Delta R.T. -0.00 min

Lab File: VN050036.D

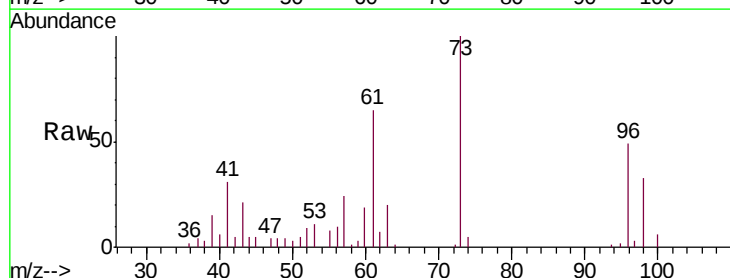
Acq: 25 Jul 2018 8:29

Tgt Ion: 73 Resp: 76750

Ion Ratio Lower Upper

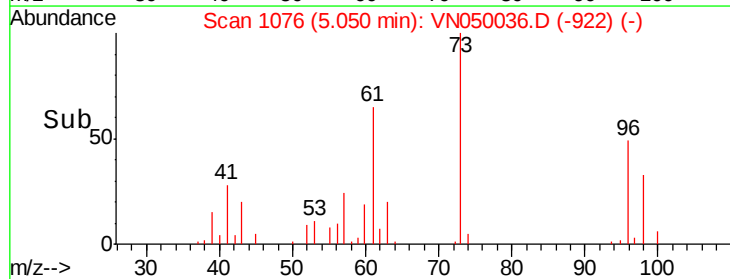
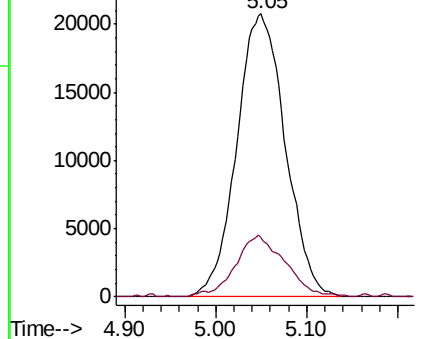
73 100

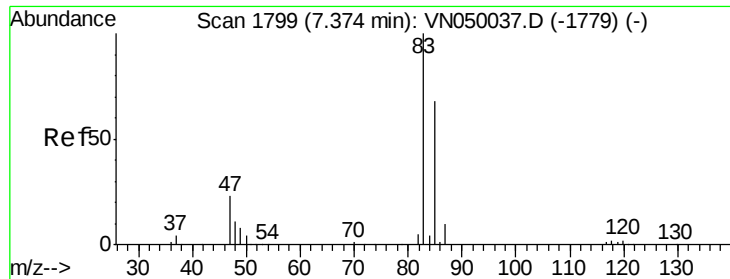
43 20.6 15.5 23.3



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





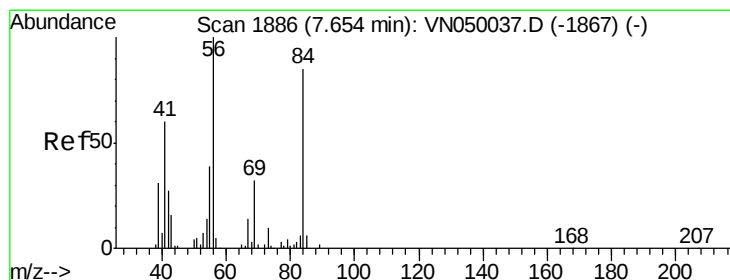
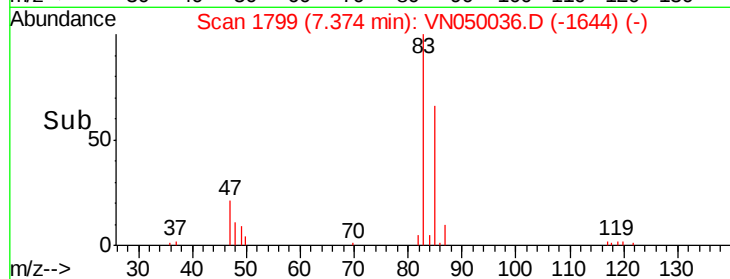
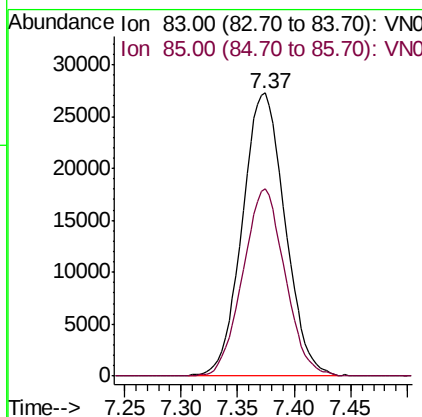
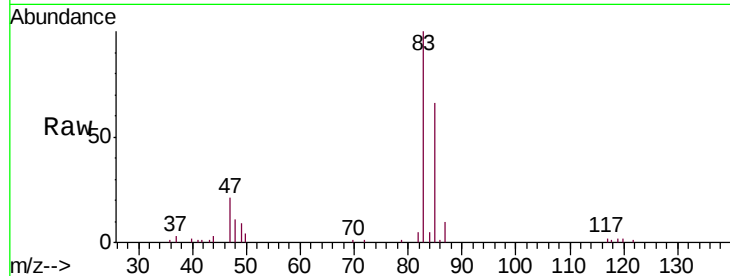
#25
Chloroform
Concen: 5.06 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	71659
Ion Ratio	100	Lower	Upper
83	100		
85	66.1	52.1	78.1

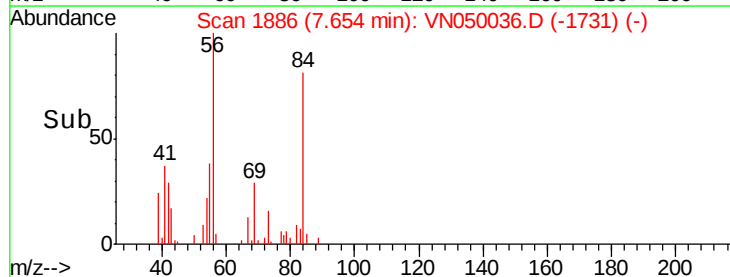
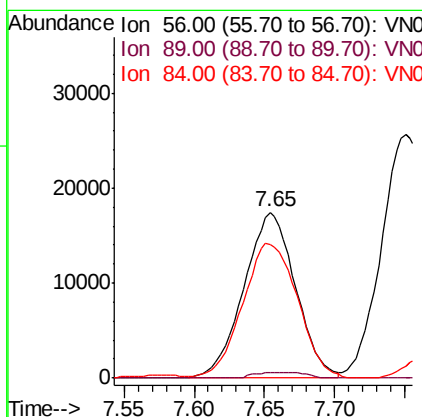
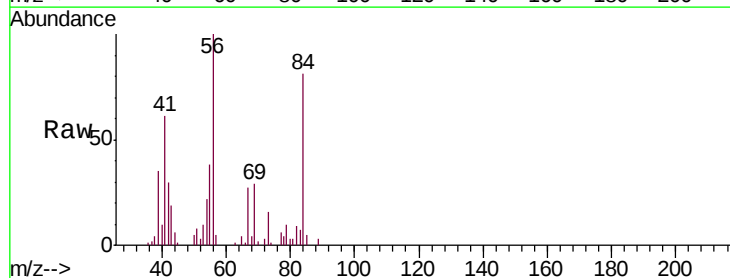
Manual Integrations
APPROVED

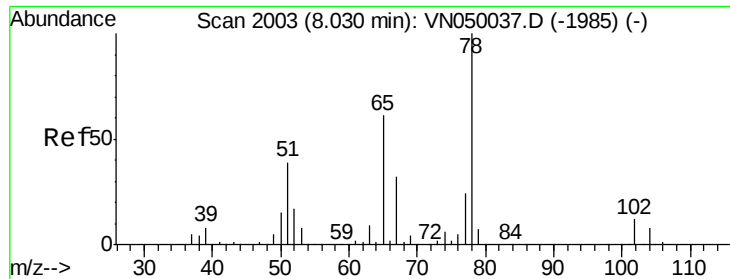
MMDadoda
7/26/2018 3:53:36 PM



#26
Cyclohexane
Concen: 4.09 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	56	Resp	44584
Ion Ratio	100	Lower	Upper
56	100		
89	0.8	3.0	4.4#
84	86.6	69.8	104.8





#27

1,2-Dichloroethane-d4

Concen: 30.57 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 260399

Ion Ratio Lower Upper

65 100

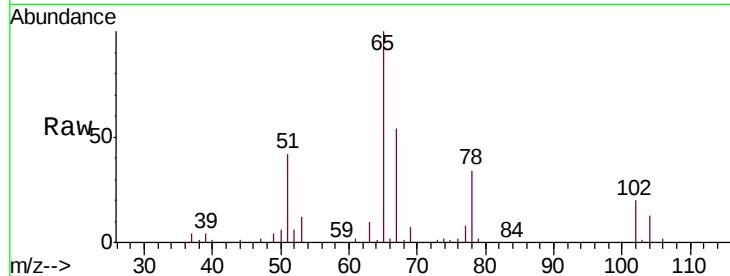
67 53.1 42.7 64.1

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:36 PM



Abundance Ion 65.00 (64.70 to 65.70): VN050037.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050037.D (-1985) (-)

8.03

120000

100000

80000

60000

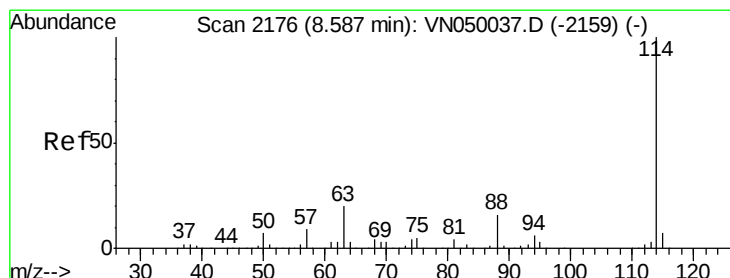
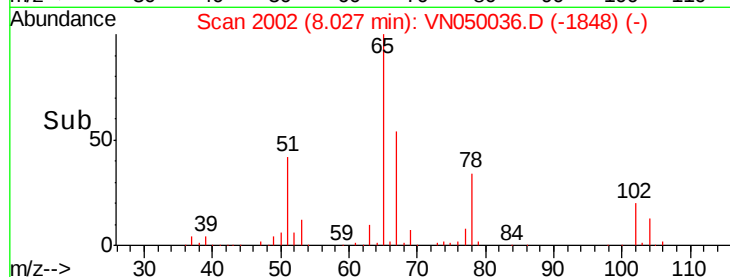
40000

20000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

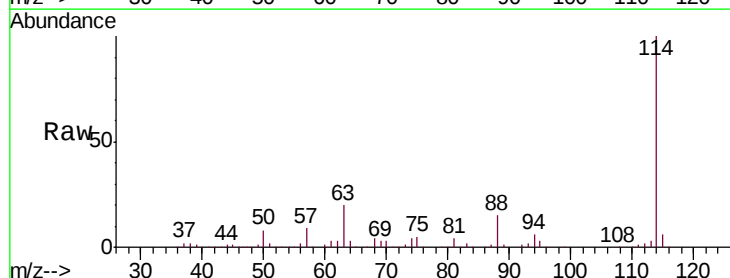
Tgt Ion: 114 Resp: 620588

Ion Ratio Lower Upper

114 100

63 19.9 16.2 24.2

88 15.2 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

8.59

400000

300000

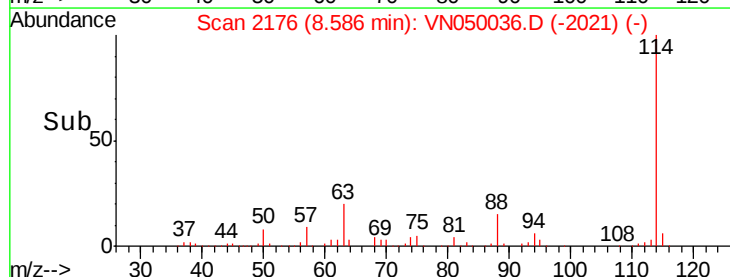
200000

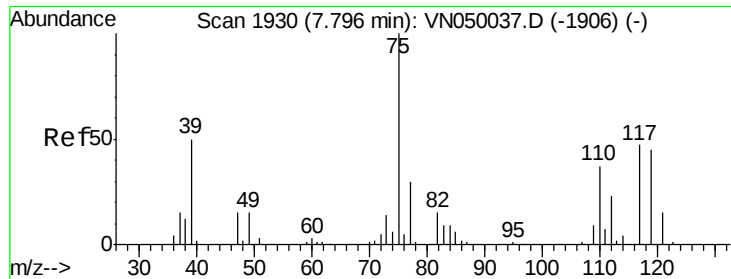
100000

0

8.50 8.55 8.60 8.65 8.70

Time-->





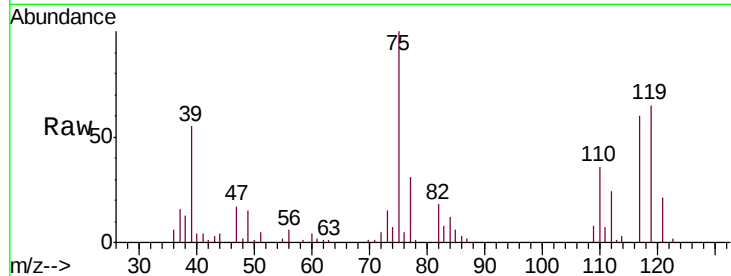
#29
 1,1-Dichloropropene
 Concen: 4.43 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

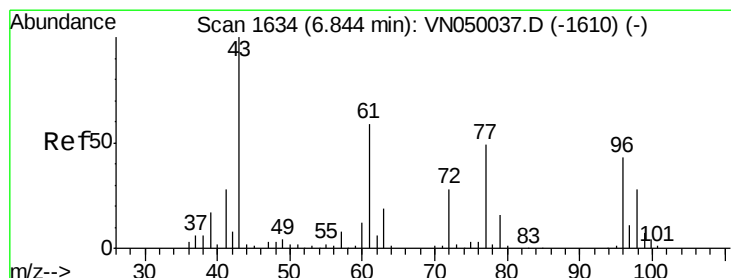
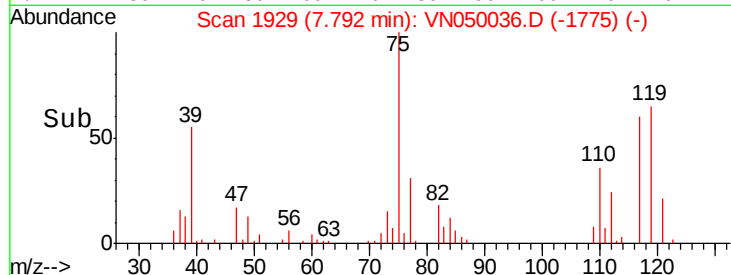
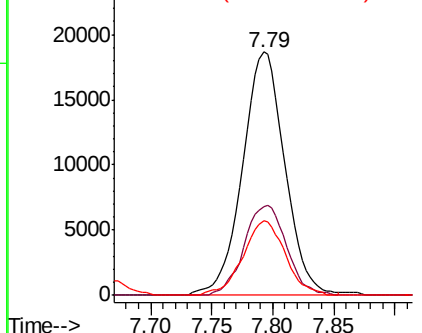
Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	37.0	0.0	73.2
77	30.6	0.0	62.0

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:36 PM

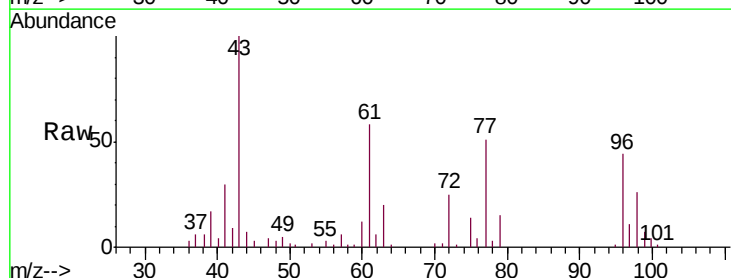


Abundance Ion 75.00 (74.70 to 75.70): VN050036.D (-1775) (-)
 Ion 110.00 (109.70 to 110.70): VN050036.D (-1775) (-)
 Ion 77.00 (76.70 to 77.70): VN050036.D (-1775) (-)

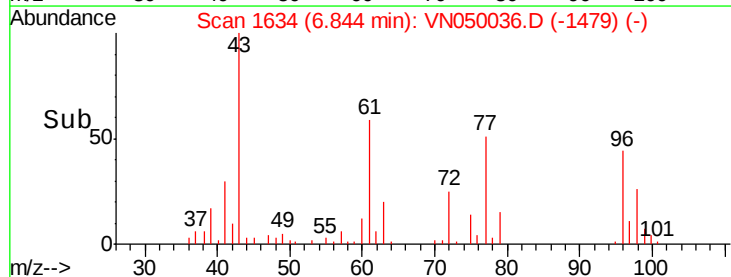
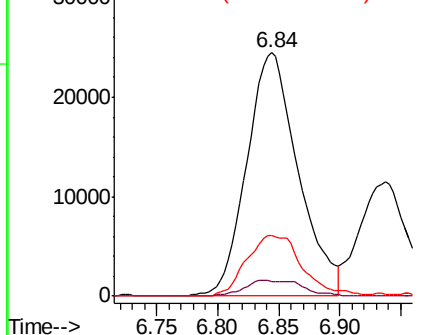


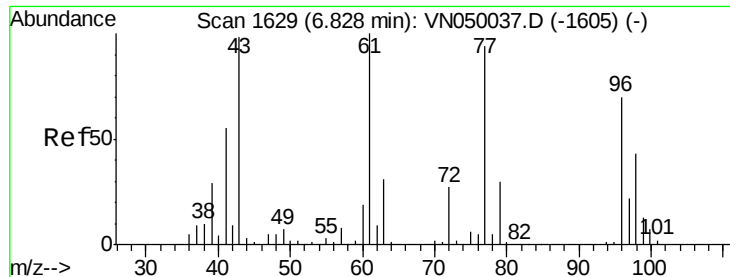
#30
 2-Butanone
 Concen: 24.01 ug/l
 RT: 6.84 min Scan# 1634
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	3.9	6.8	10.2#
72	26.3	21.4	32.0



Abundance Ion 43.00 (42.70 to 43.70): VN050036.D (-1479) (-)
 Ion 57.00 (56.70 to 57.70): VN050036.D (-1479) (-)
 Ion 72.00 (71.70 to 72.70): VN050036.D (-1479) (-)





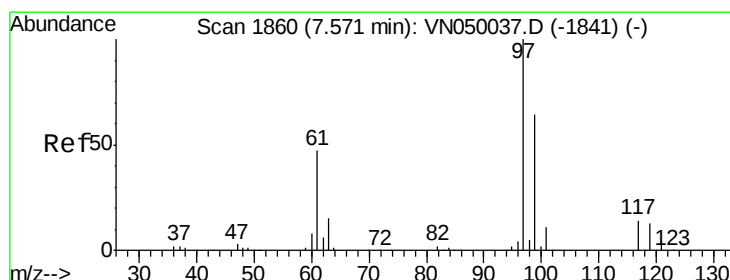
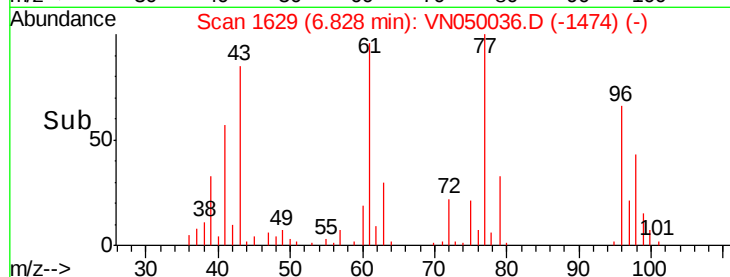
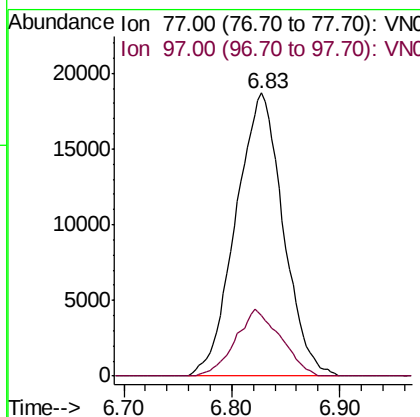
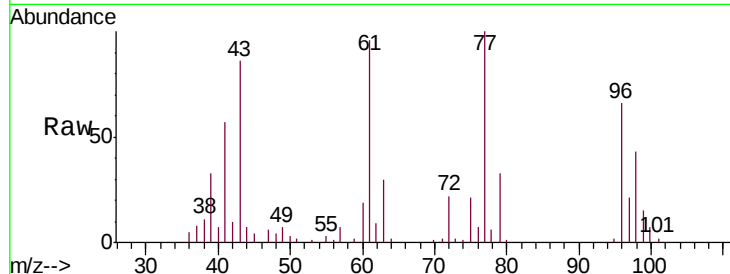
#31
 2,2-Dichloropropane
 Concen: 5.18 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
77	100		
97	22.5	18.9	28.3

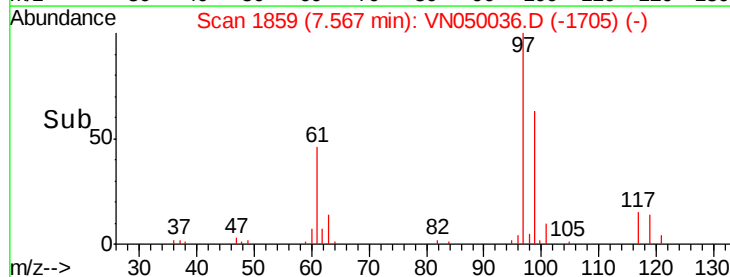
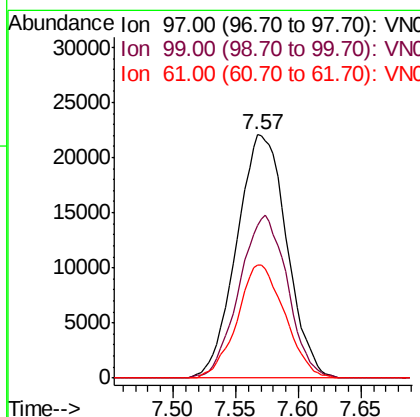
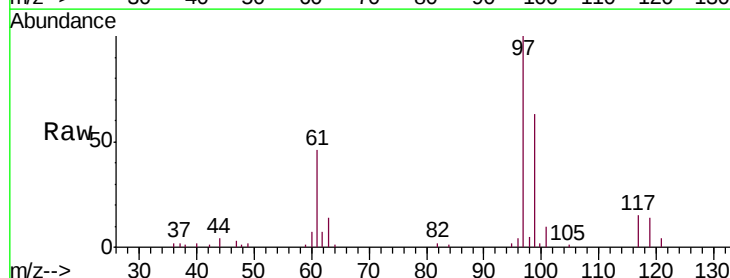
Manual Integrations
 APPROVED

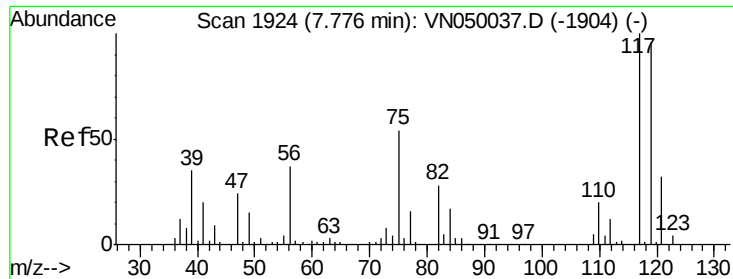
MMDadoda
 7/26/2018 3:53:36 PM



#32
 1,1,1-Trichloroethane
 Concen: 5.25 ug/l
 RT: 7.57 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.2	76.8
61	44.1	35.3	52.9





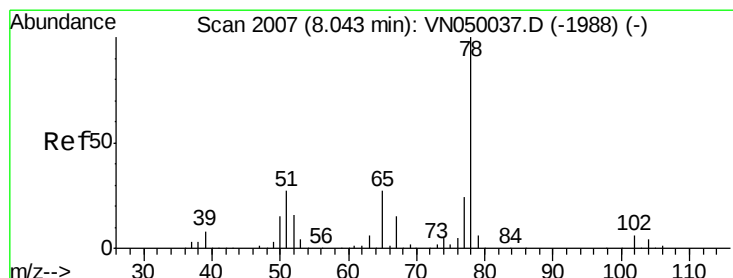
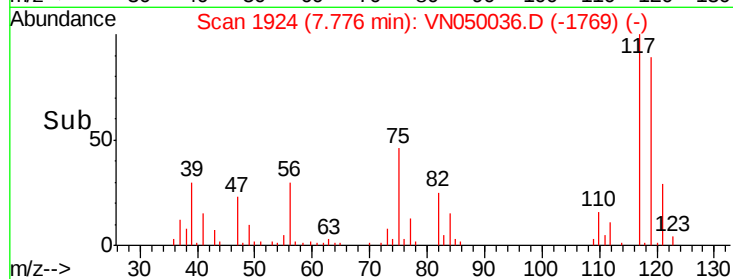
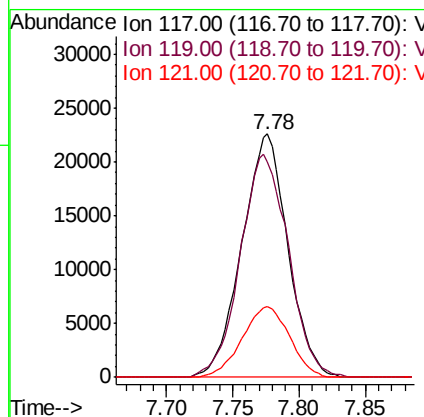
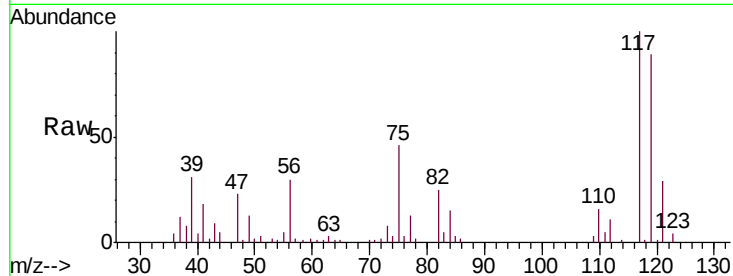
#33
Carbon Tetrachloride
Concen: 5.29 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
119	88.6	76.9	115.3
121	28.9	24.4	36.6

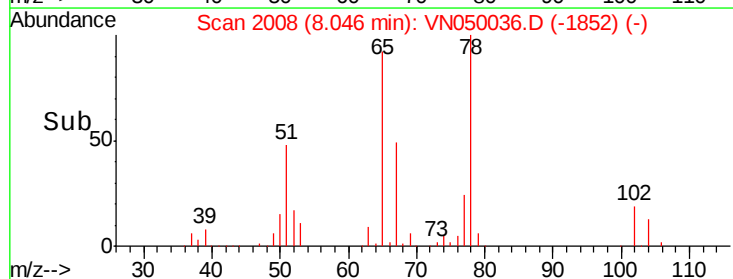
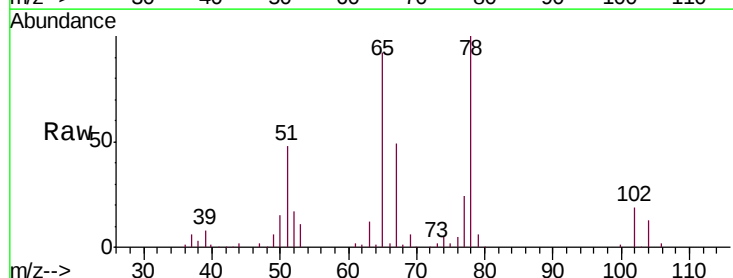
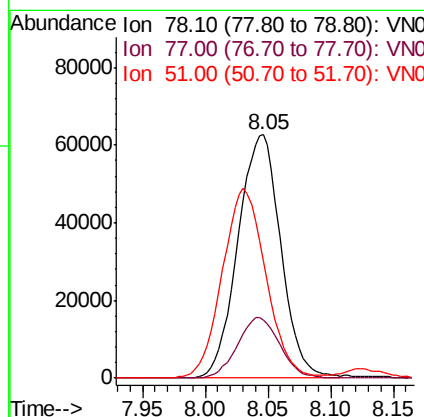
Manual Integrations
APPROVED

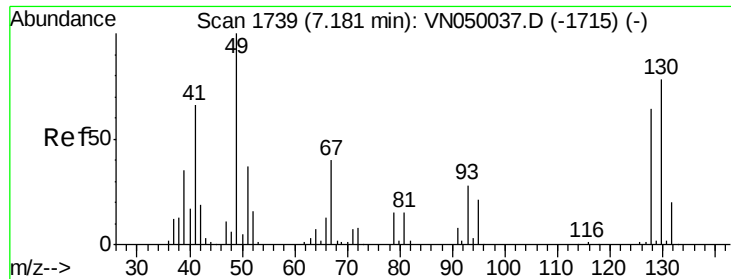
MMDadoda
7/26/2018 3:53:36 PM



#34
Benzene
Concen: 4.93 ug/l
RT: 8.05 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.1	28.7
51	46.3	21.0	31.4





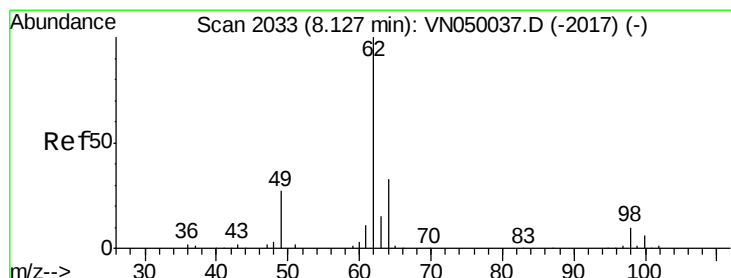
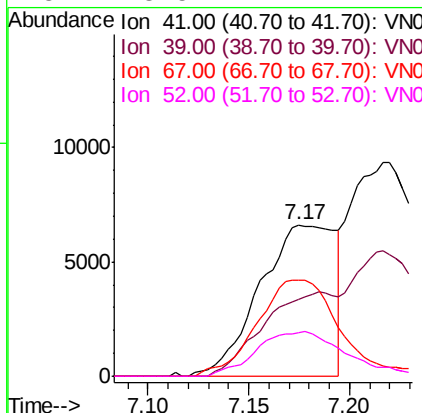
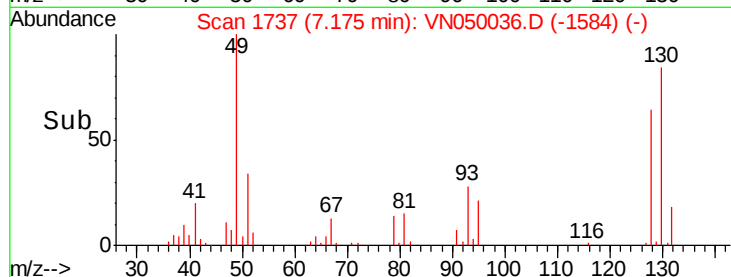
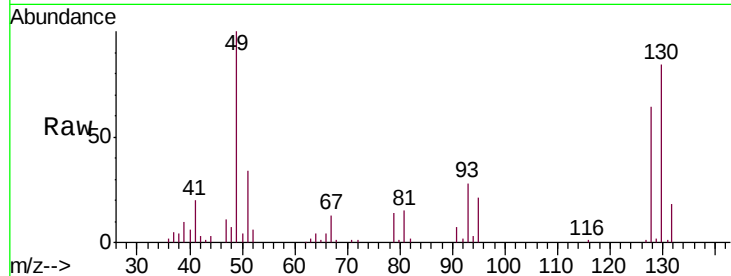
#35
Methacrylonitrile
Concen: 5.28 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. -0.01 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	17188
Ion Ratio	Lower	Upper	
41	100		
39	50.9	27.6	82.7
67	63.5	35.1	105.5
52	28.5	14.1	42.4

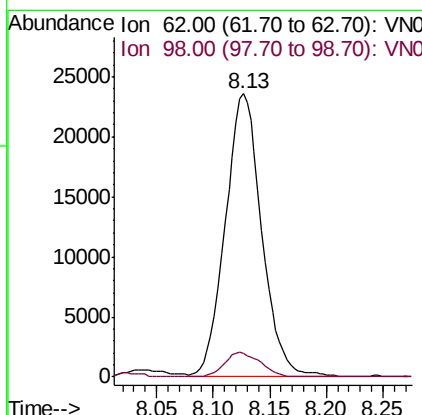
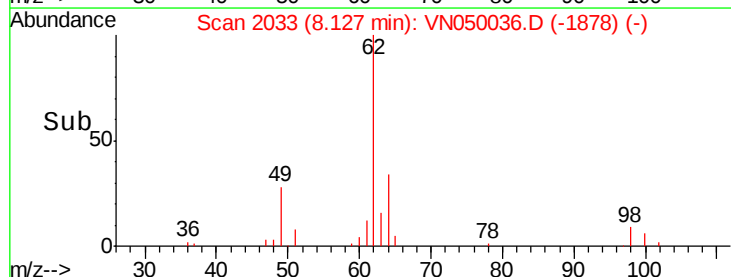
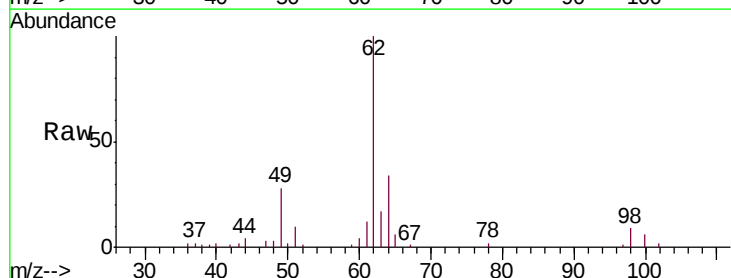
Manual Integrations
APPROVED

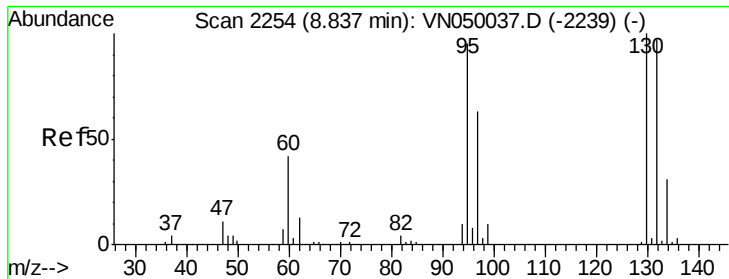
MMDadoda
7/26/2018 3:53:36 PM



#36
1,2-Dichloroethane
Concen: 5.34 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion:	62	Resp:	52849
Ion Ratio	Lower	Upper	
62	100		
98	8.6	7.8	11.6





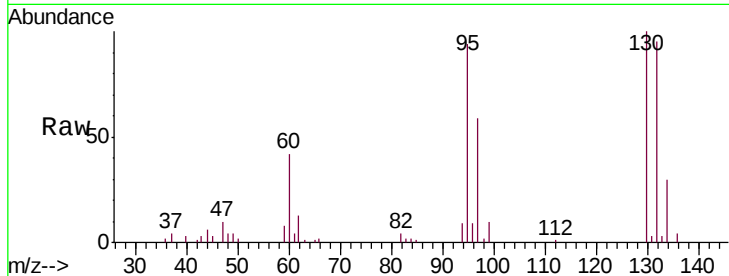
#37
 Trichloroethene
 Concen: 5.18 ug/l
 RT: 8.83 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

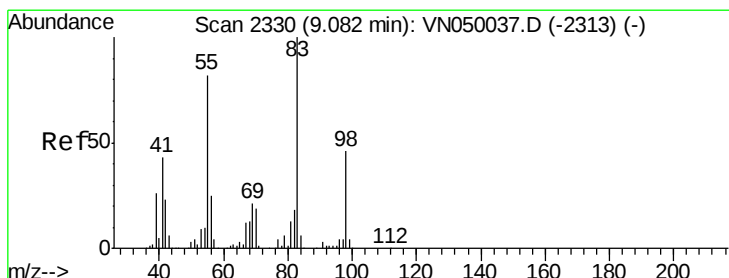
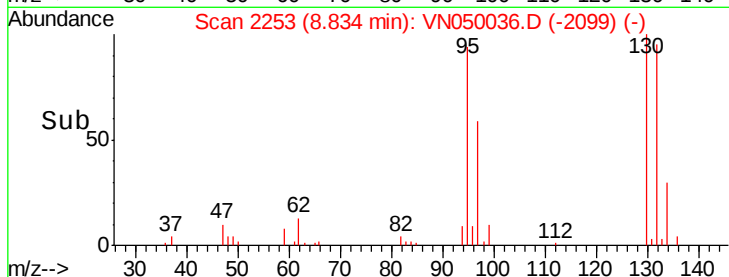
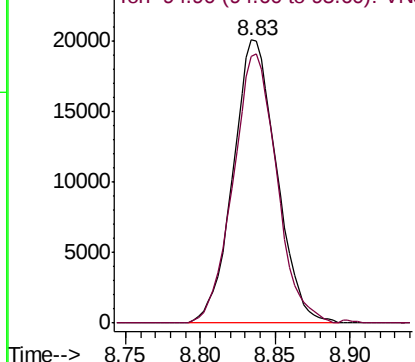
Tot Ion:130 Resp: 40672
 Ion Ratio Lower Upper
 130 100
 95 94.2 79.7 119.5

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:36 PM

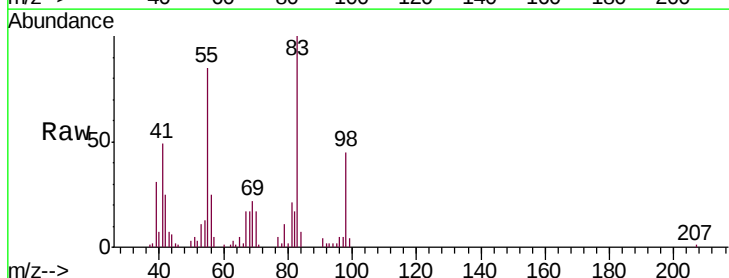


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

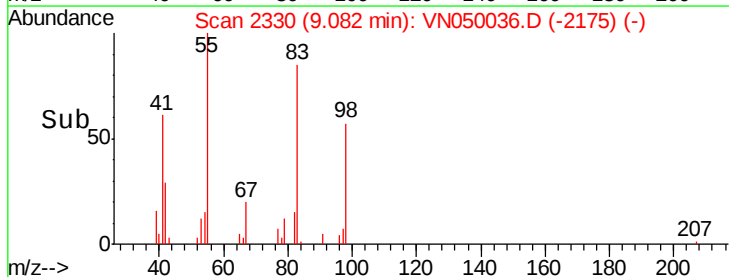
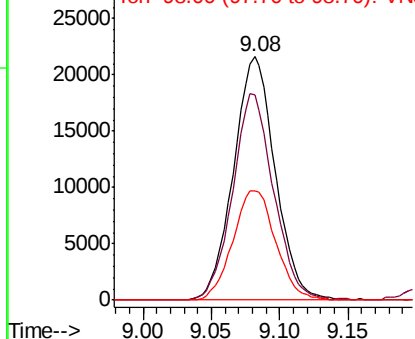


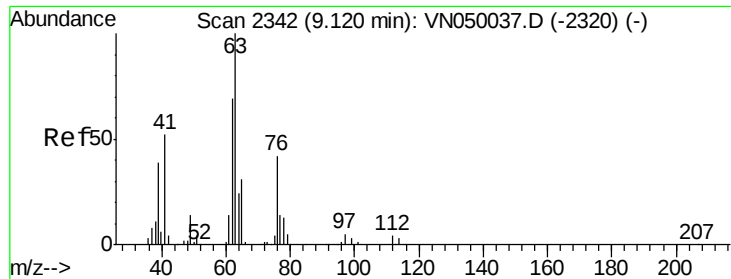
#38
 Methylcyclohexane
 Concen: 4.53 ug/l
 RT: 9.08 min Scan# 2330
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion: 83 Resp: 45828
 Ion Ratio Lower Upper
 83 100
 55 83.3 39.3 117.8
 98 46.1 23.0 69.0



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: 5.05 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 40083

Ion Ratio Lower Upper

63 100

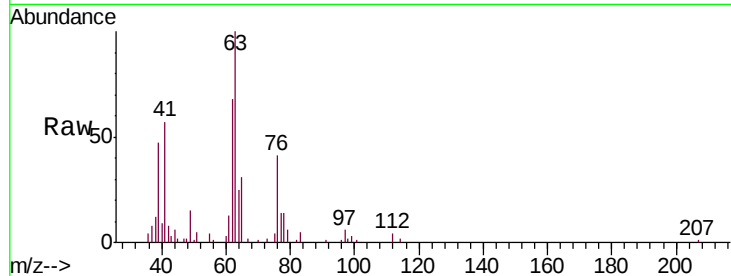
65 30.9 24.2 36.2

Manual Integrations

APPROVED

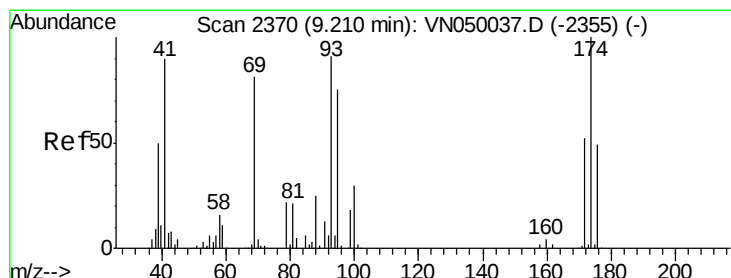
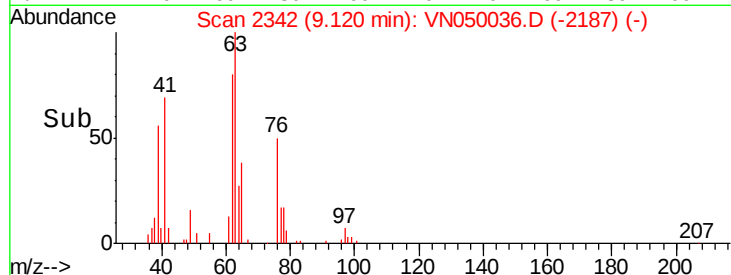
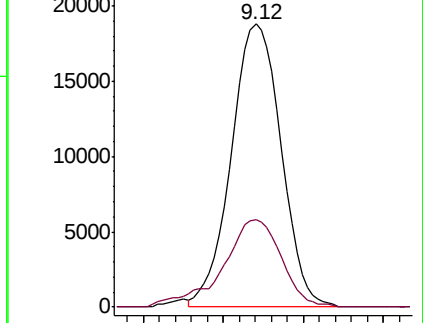
MMDadoda

7/26/2018 3:53:36 PM



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 5.21 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

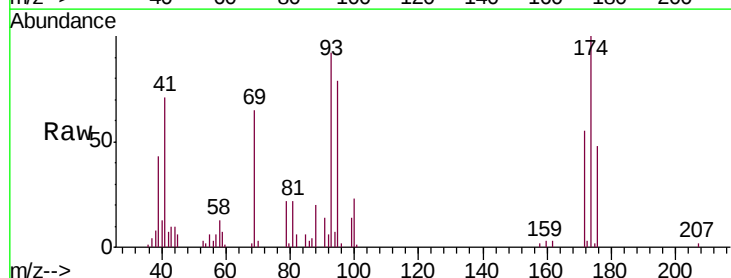
Tgt Ion: 93 Resp: 25121

Ion Ratio Lower Upper

93 100

95 82.0 0.0 165.6

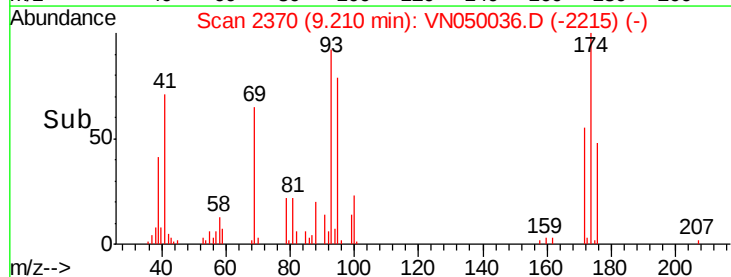
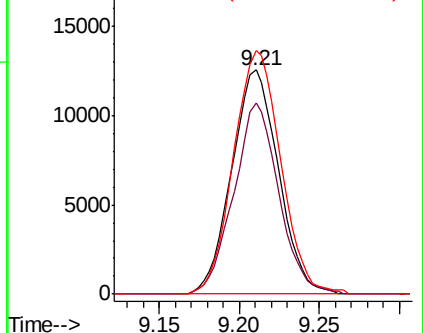
174 109.8 0.0 223.2

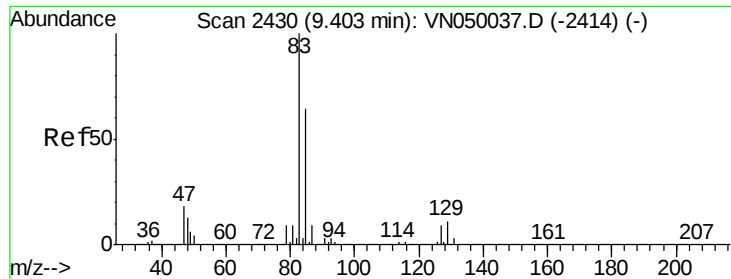


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





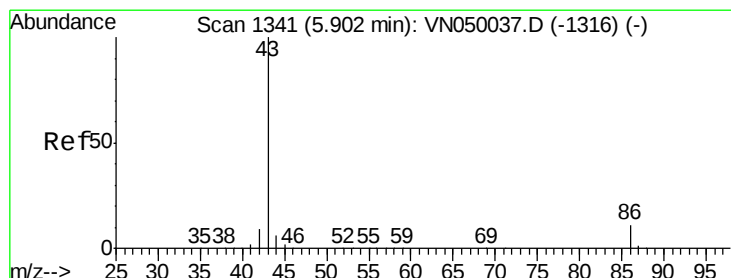
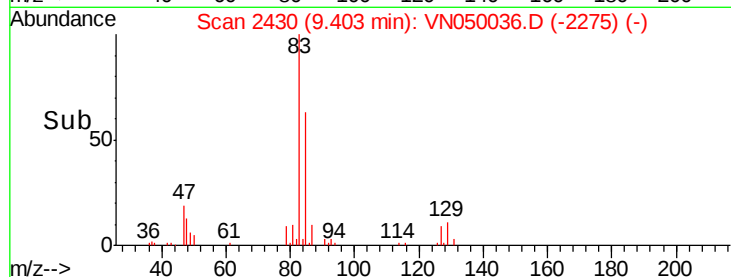
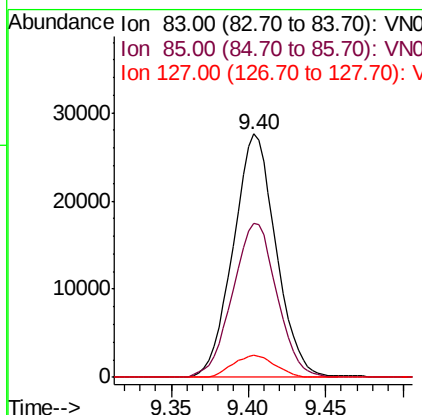
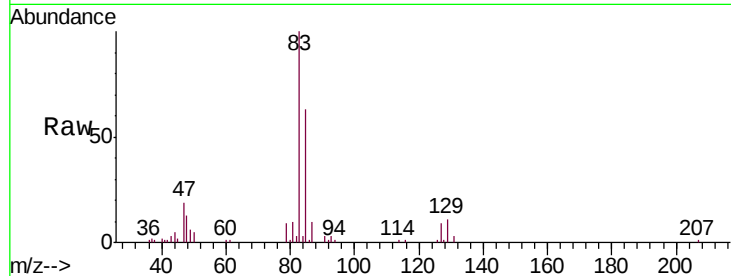
#41
Bromodichloromethane
Concen: 5.19 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.6	78.8
127	9.0	7.0	10.4

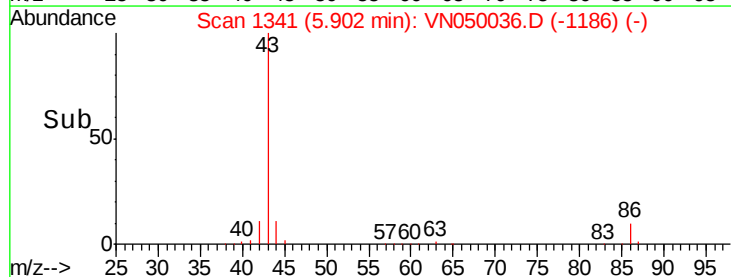
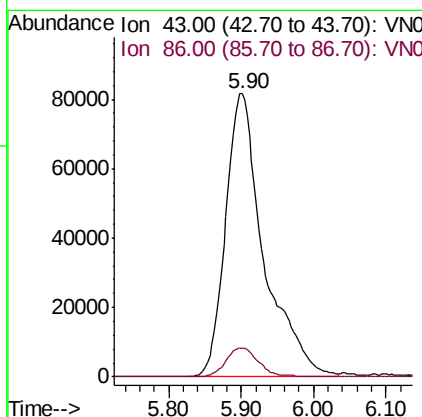
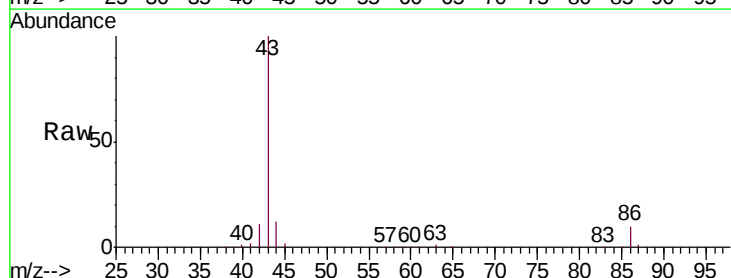
Manual Integrations
APPROVED

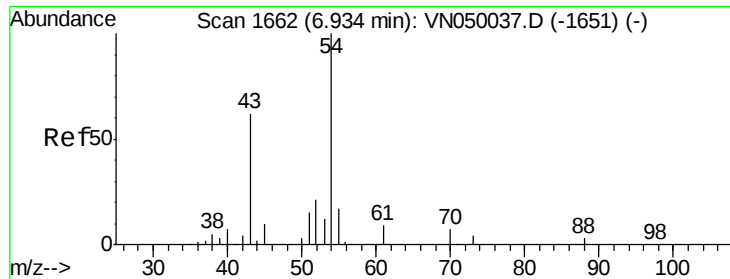
MMDadoda
7/26/2018 3:53:36 PM



#42
Vinyl Acetate
Concen: 21.21 ug/l
RT: 5.90 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.6	7.3	10.9





#43

Ethyl Acetate

Concen: 4.35 ug/l

RT: 6.94 min Scan# 1663

Delta R.T. 0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 27986

Ion Ratio Lower Upper

43 100

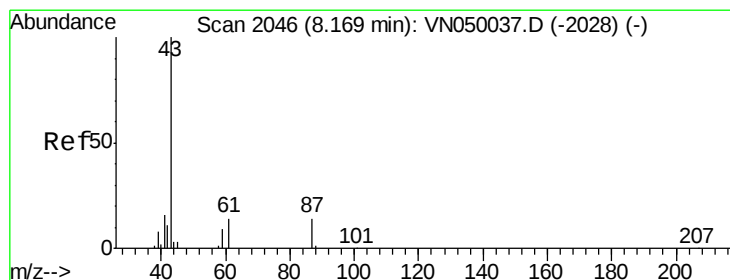
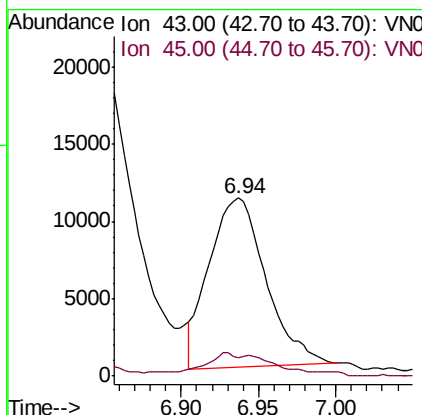
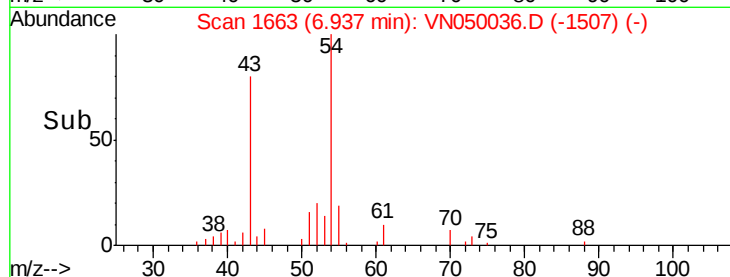
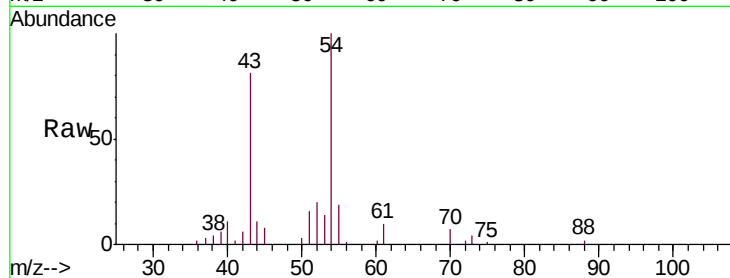
45 4.0 13.0 19.6#

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:36 PM



#44

Isopropyl Acetate

Concen: 4.73 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. -0.00 min

Lab File: VN050036.D

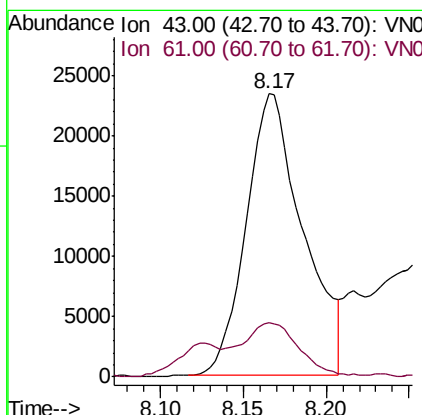
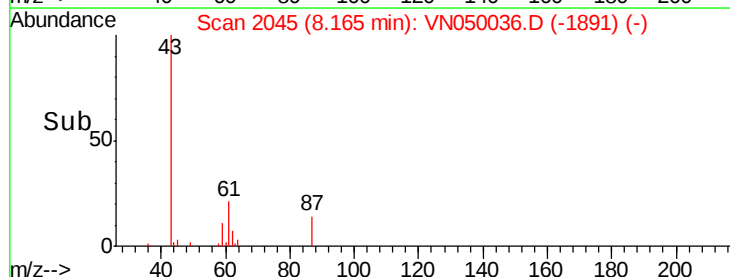
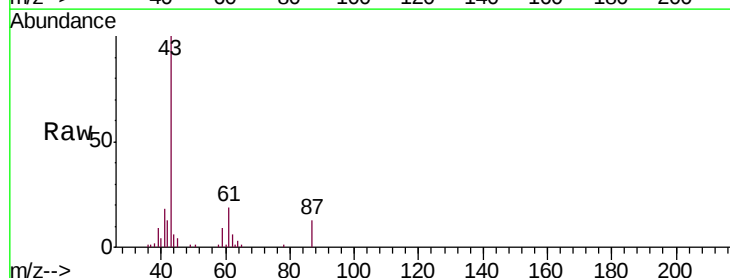
Acq: 25 Jul 2018 8:29

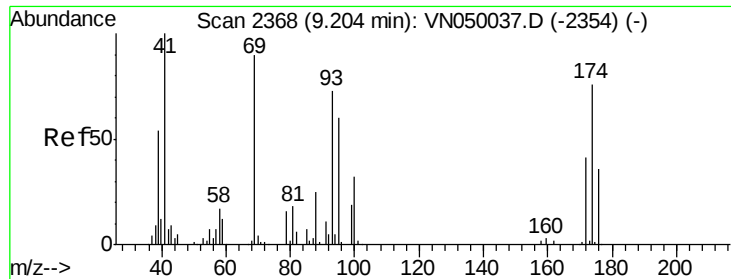
Tgt Ion: 43 Resp: 55728

Ion Ratio Lower Upper

43 100

61 16.3 16.4 24.6#





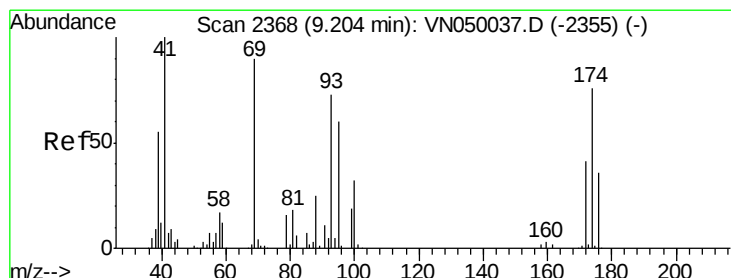
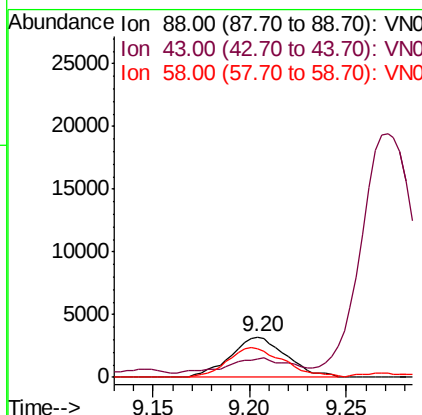
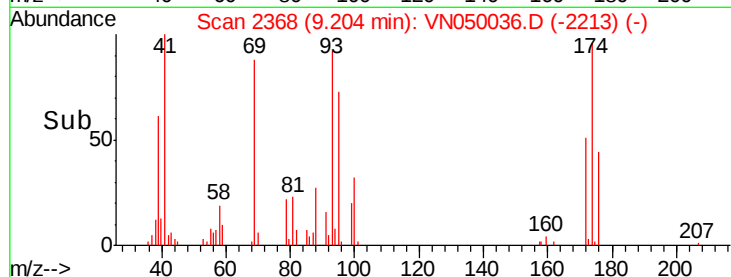
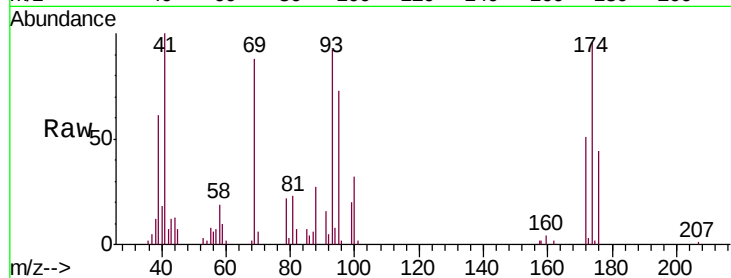
#45
1,4-Dioxane
Concen: 83.36 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.9	40.3
58	76.2	53.6	80.4

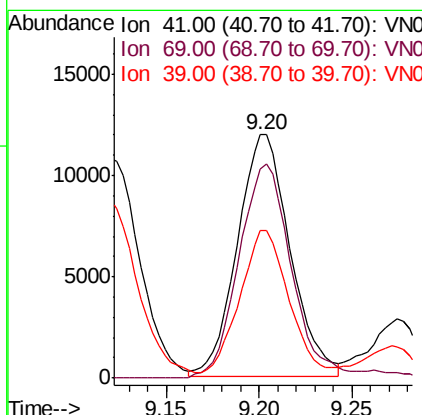
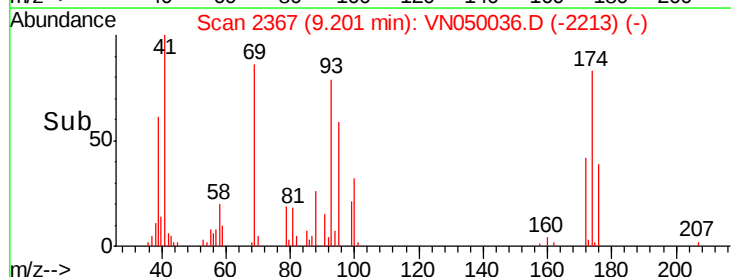
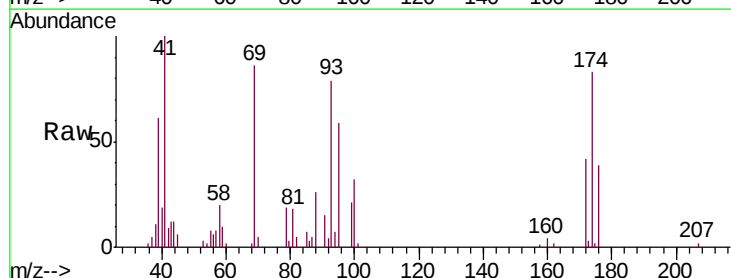
Manual Integrations
APPROVED

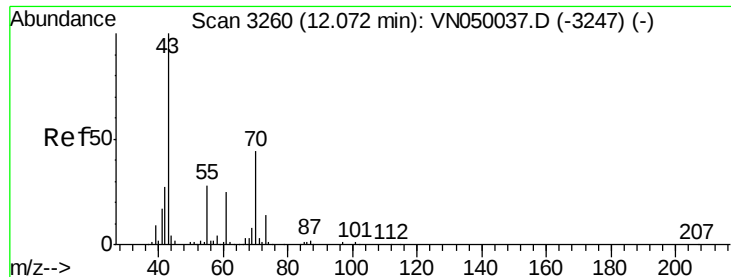
MMDadoda
7/26/2018 3:53:36 PM



#46
Methyl methacrylate
Concen: 4.23 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
41	100		
69	88.5	44.0	132.1
39	59.2	27.0	80.8





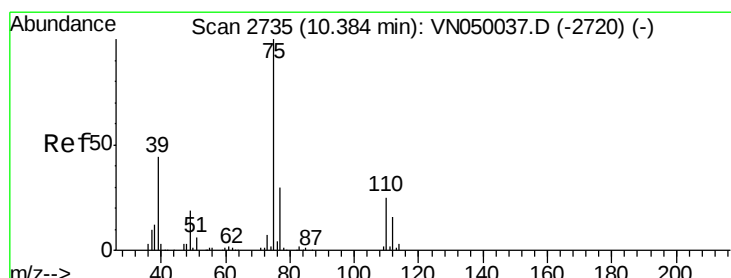
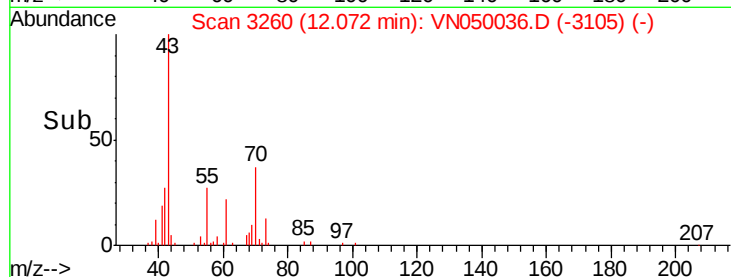
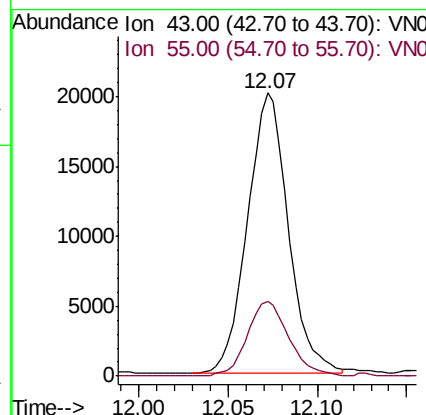
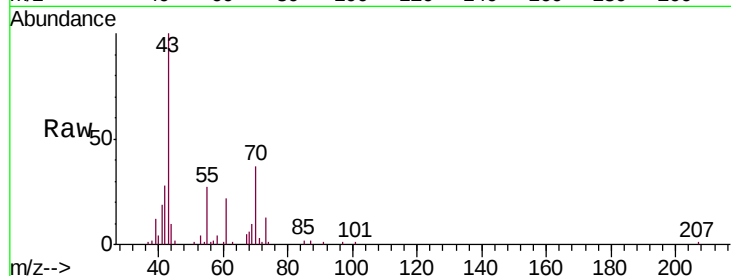
#47
n-amvl Acetate
Concen: 3.82 ug/l
RT: 12.07 min Scan# 3260
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	43	Resp	32056
Ion Ratio	100	Lower	Upper
43	100	21.0	31.4
55	27.2		

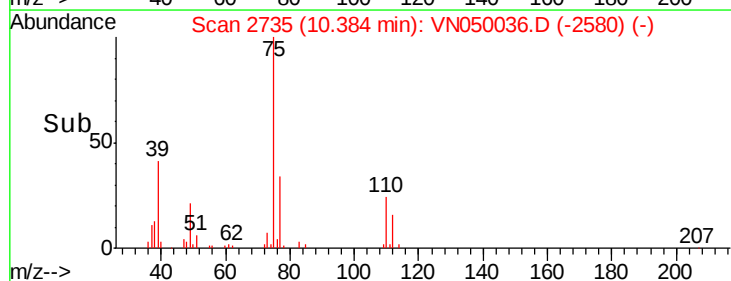
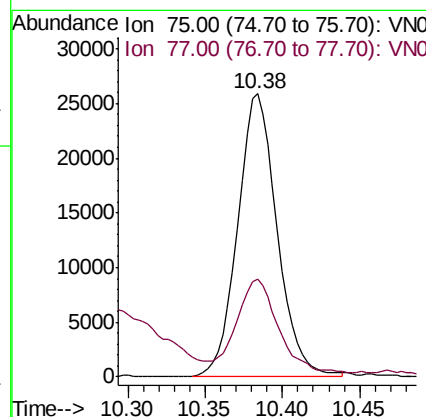
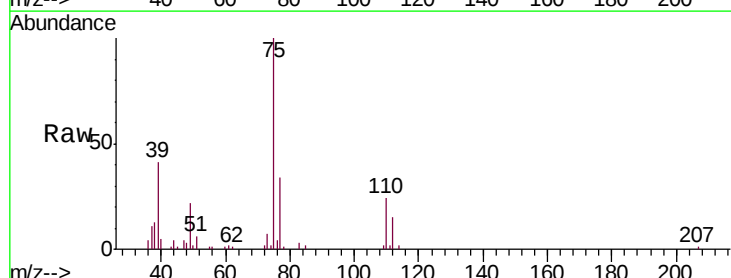
Manual Integrations
APPROVED

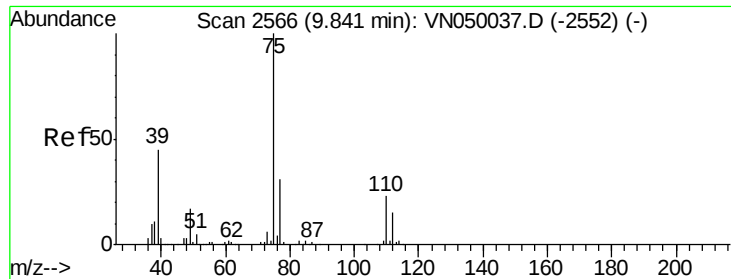
MMDadoda
7/26/2018 3:53:36 PM



#48
t-1,3-Dichloropropene
Concen: 4.75 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	75	Resp	45799
Ion Ratio	100	Lower	Upper
75	100	24.6	37.0
77	32.5		





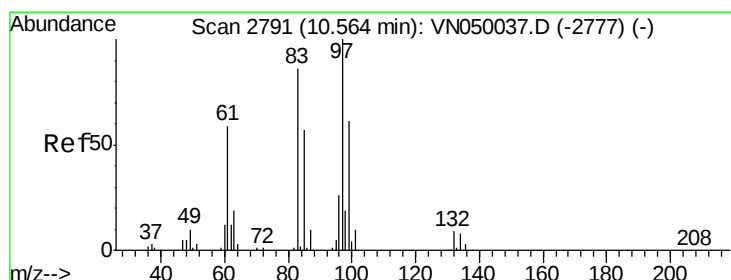
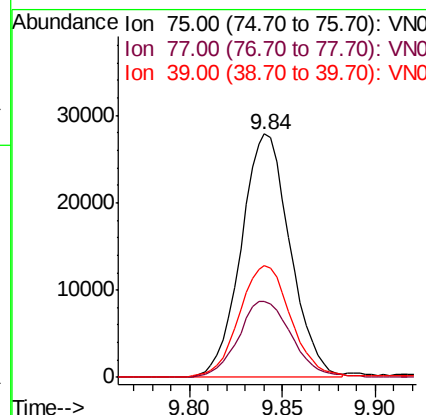
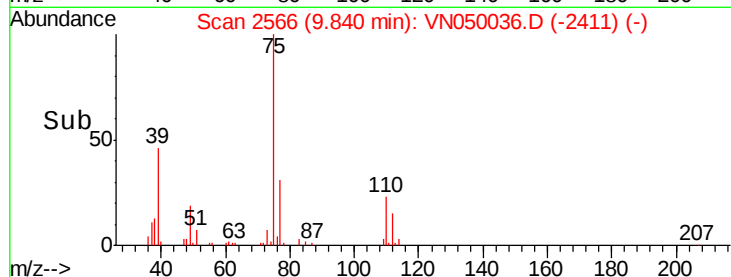
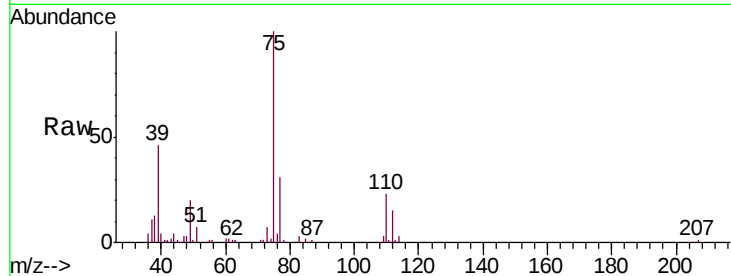
#49
 cis-1,3-Dichloropropene
 Concen: 4.52 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5
39	45.2	36.3	54.5

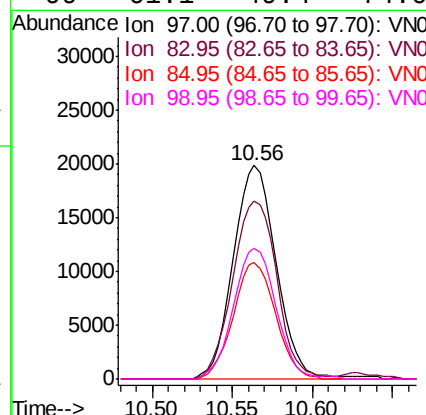
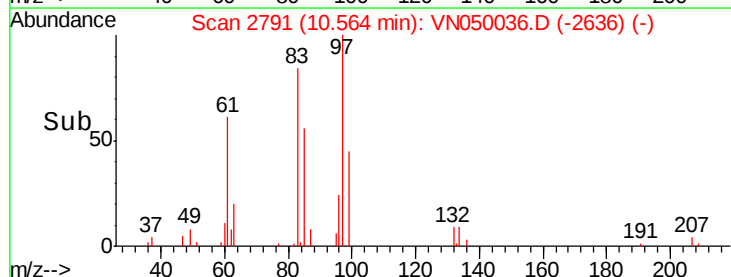
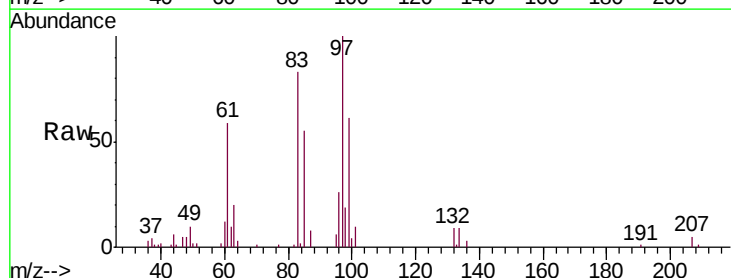
Manual Integrations
 APPROVED

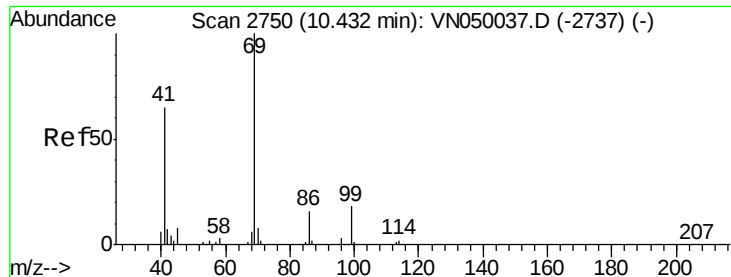
MMDadoda
 7/26/2018 3:53:36 PM



#50
 1,1,2-Trichloroethane
 Concen: 5.24 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
97	100		
83	83.4	68.1	102.1
85	54.5	45.4	68.2
99	61.1	49.4	74.0





#51

Ethyl methacrylate

Concen: 4.34 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

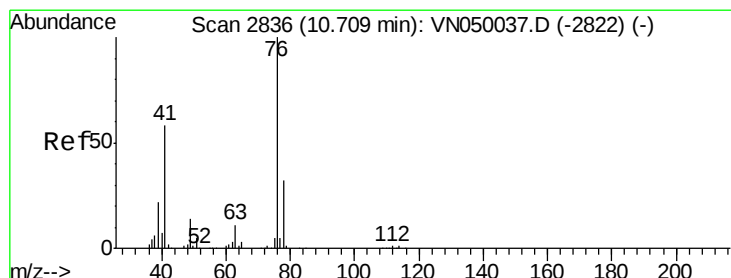
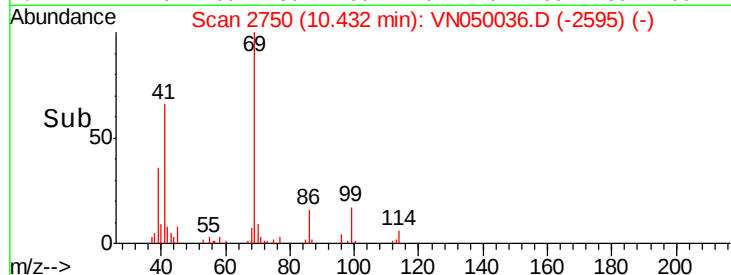
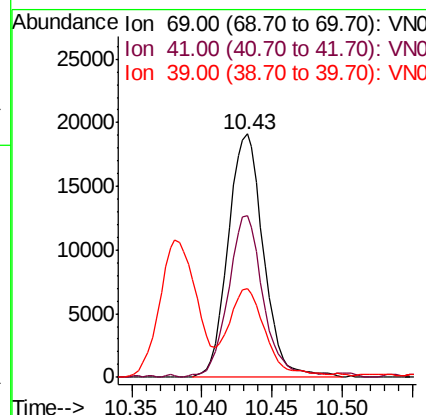
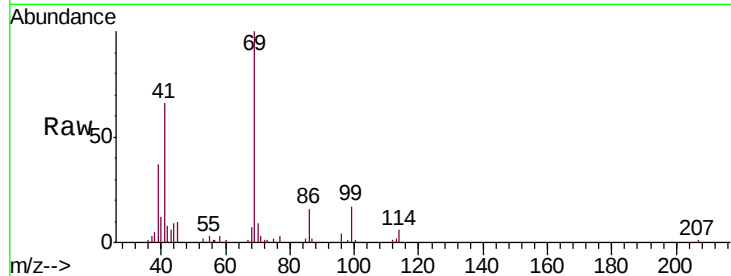
ClientSampleId :

VSTDIC005

Tot Ion:	69	Resp:	33544
Ion	Ratio	Lower	Upper
69	100		
41	65.4	31.9	95.9
39	35.2	16.7	50.1

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:36 PM



#52

1,3-Dichloropropane

Concen: 4.93 ug/l

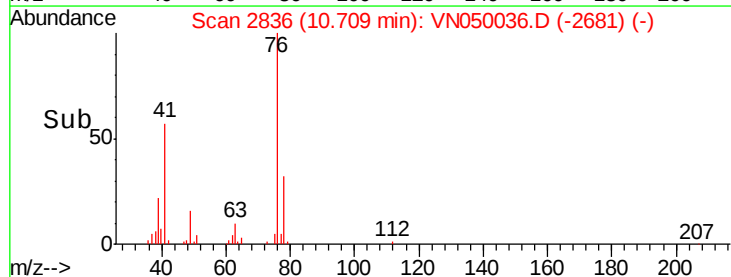
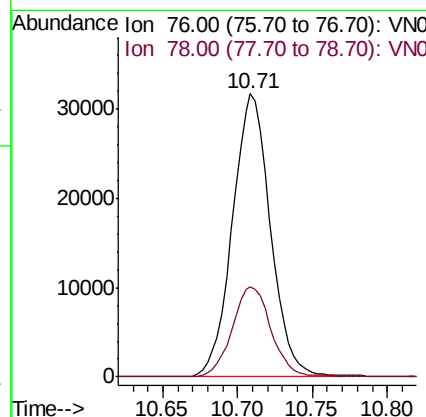
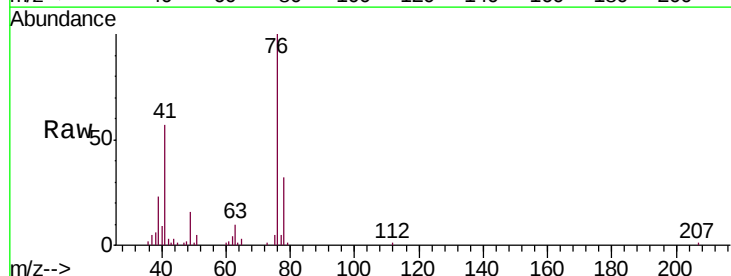
RT: 10.71 min Scan# 2836

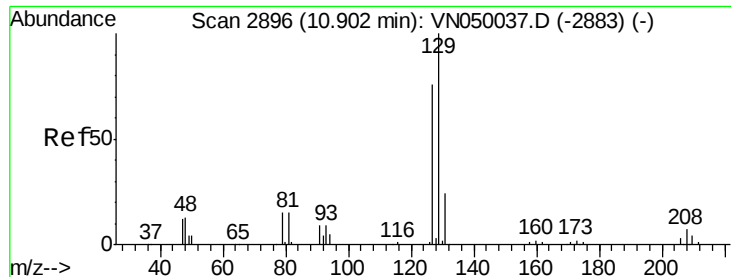
Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Tgt Ion:	76	Resp:	56143
Ion	Ratio	Lower	Upper
76	100		
78	32.8	0.0	65.6





#53

Dibromochloromethane

Concen: 5.09 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:129 Resp: 39410

Ion Ratio Lower Upper

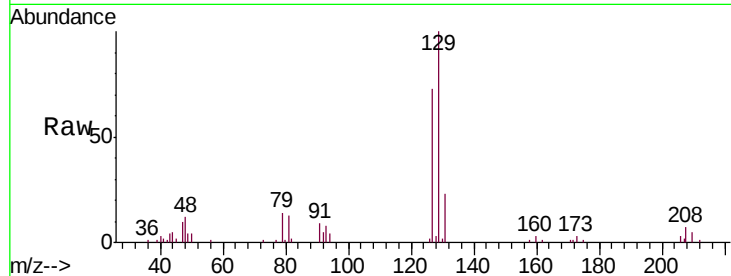
129 100

127 74.2 38.1 114.5

Manual Integrations
APPROVED

MMDadoda

7/26/2018 3:53:36 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

25000

20000

15000

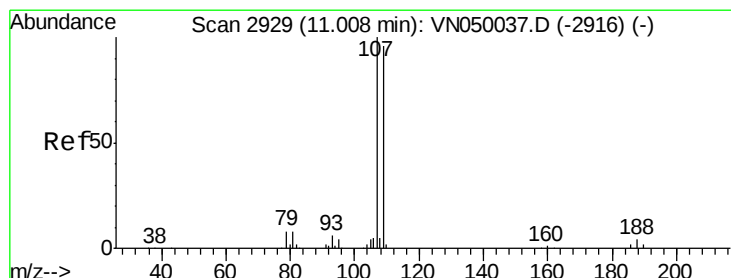
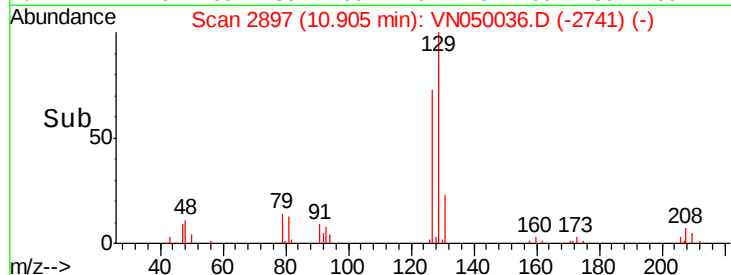
10000

5000

0

10.85 10.90 10.95

Time-->



#54

1,2-Dibromoethane

Concen: 4.88 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN050036.D

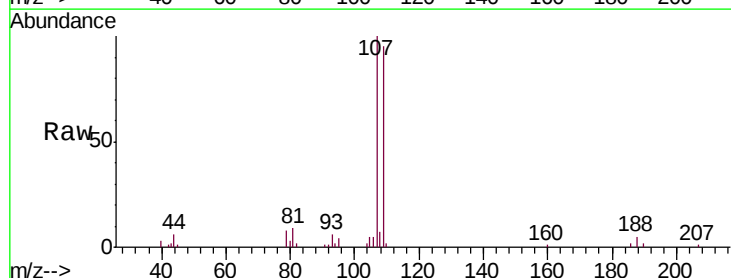
Acq: 25 Jul 2018 8:29

Tgt Ion:107 Resp: 32570

Ion Ratio Lower Upper

107 100

109 95.8 76.2 114.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

20000

15000

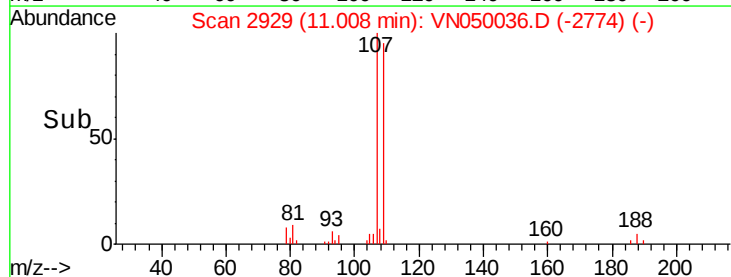
10000

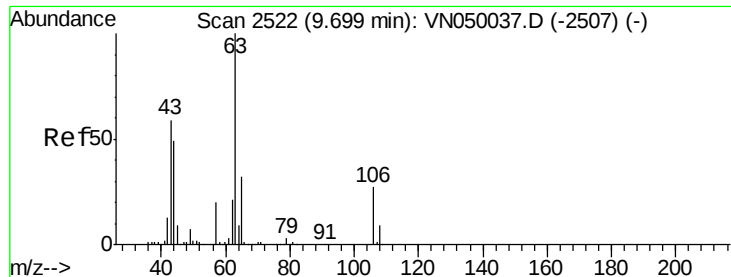
5000

0

10.95 11.00 11.05 11.10

Time-->





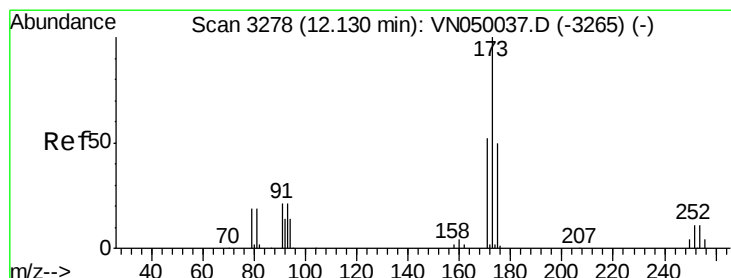
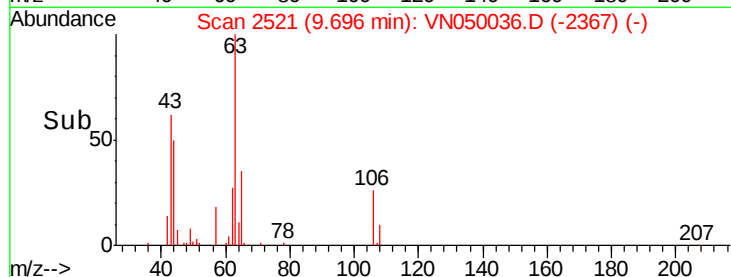
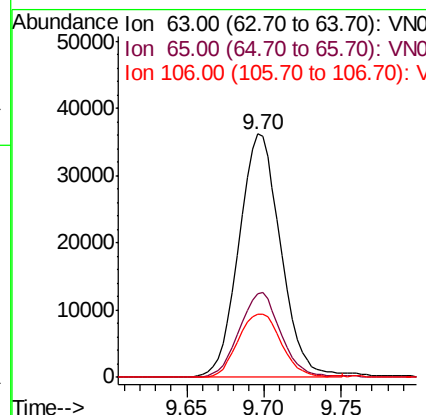
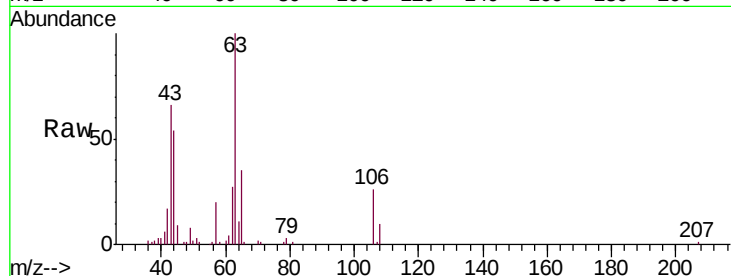
#55
2-Chloroethyl vinyl ether
Concen: 18.60 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	34.5	25.5	38.3
106	26.9	21.8	32.6

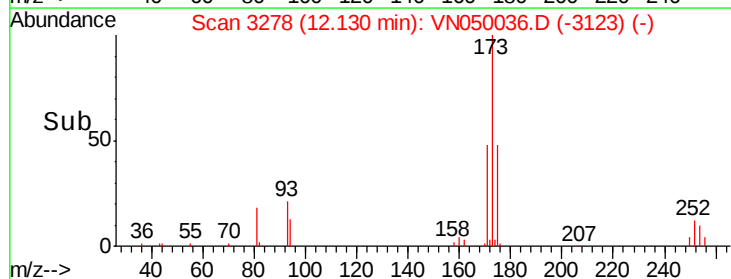
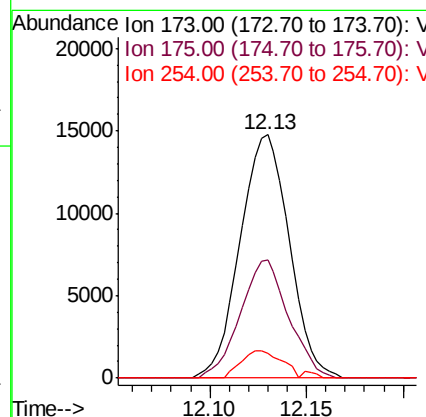
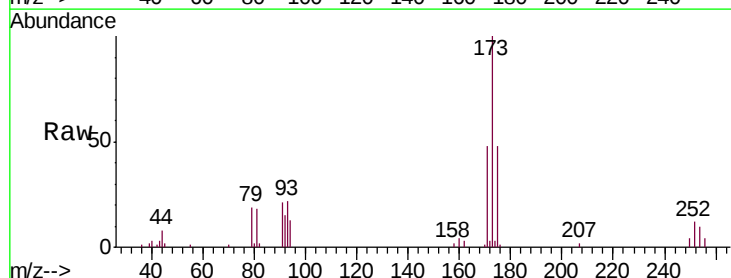
Manual Integrations
APPROVED

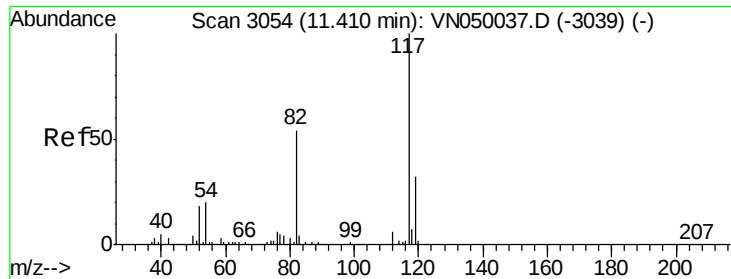
MMDadoda
7/26/2018 3:53:36 PM



#56
Bromoform
Concen: 4.91 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.5	38.6	57.8
254	9.2	8.8	13.2





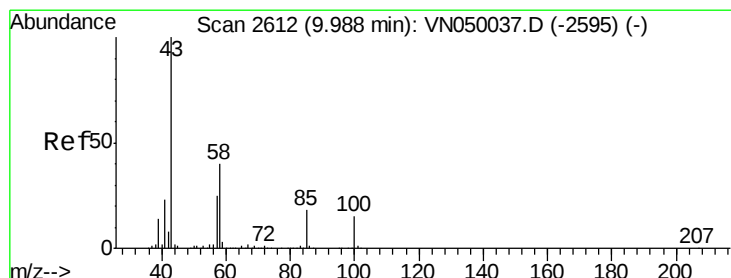
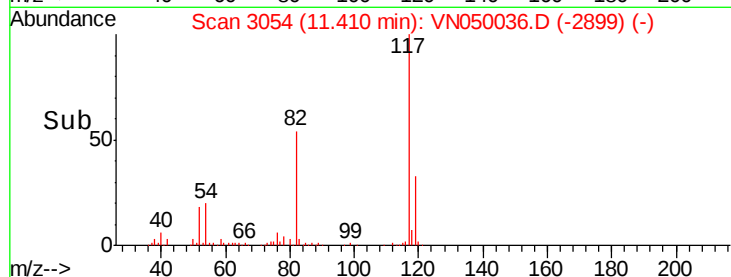
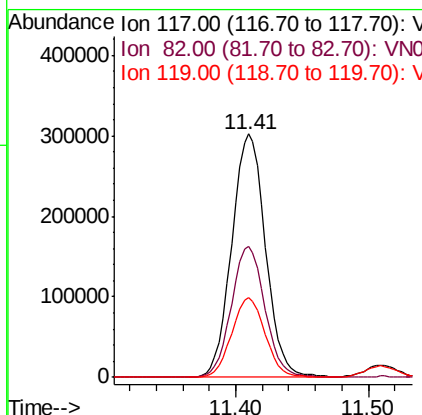
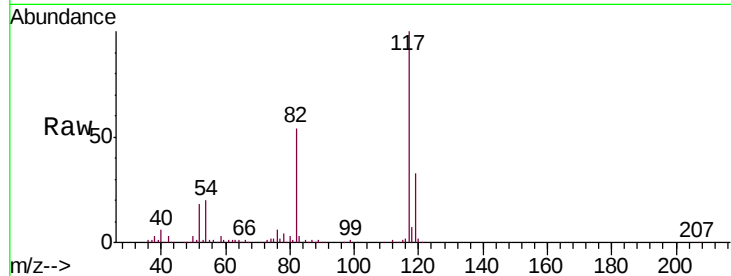
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp Lower	Upper
117	100		
82	53.6	42.4	63.6
119	32.5	25.4	38.0

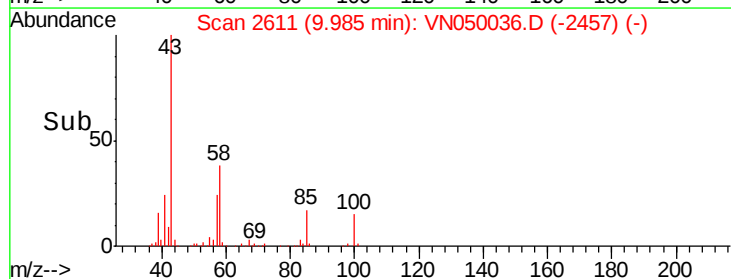
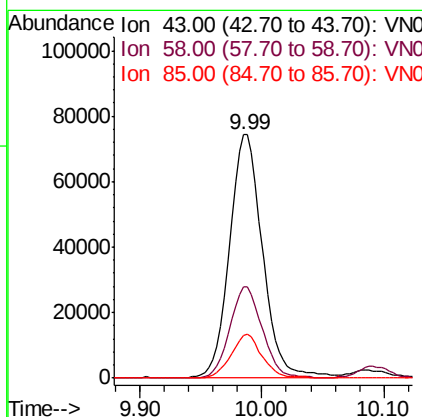
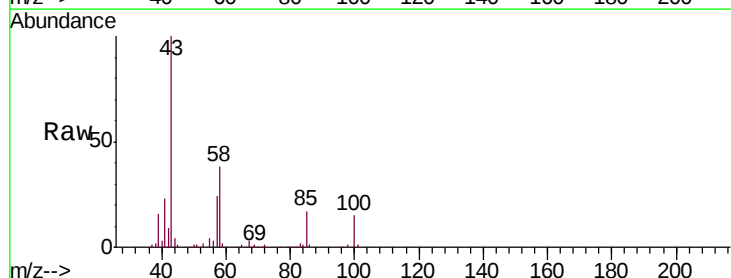
Manual Integrations
APPROVED

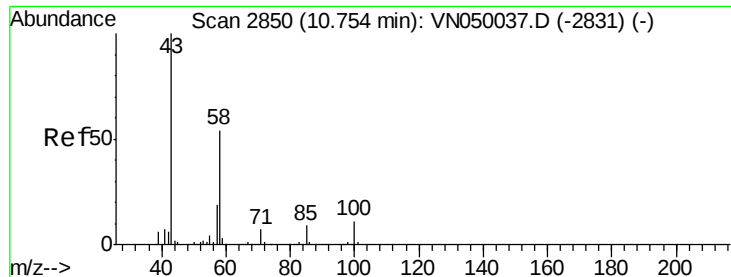
MMDadoda
7/26/2018 3:53:36 PM



#58
4-Methyl-2-Pentanone
Concen: 21.84 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
58	37.4	31.2	46.8
85	16.8	14.4	21.6





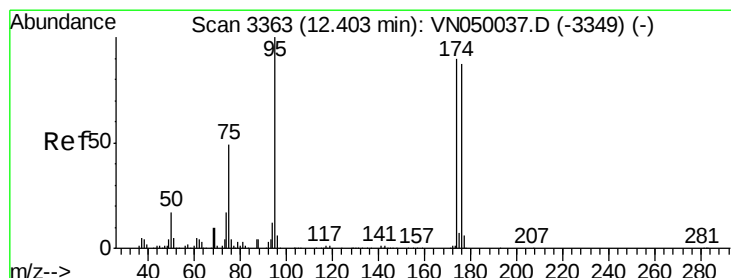
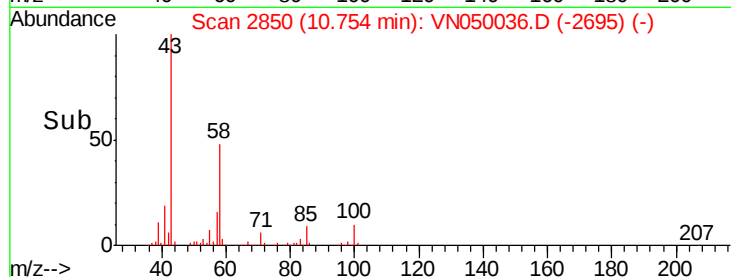
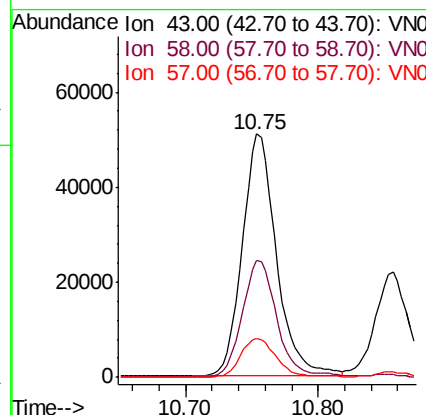
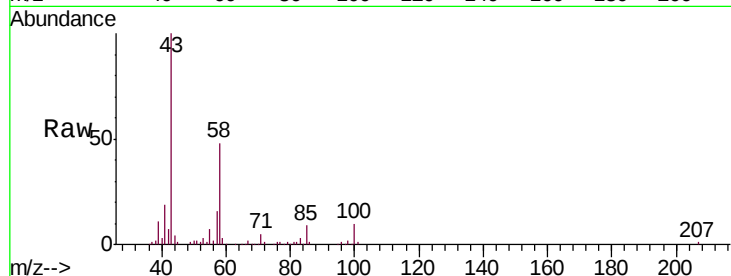
#59
2-Hexanone
Concen: 21.46 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.5	43.8	65.8
57	16.9	15.1	22.7

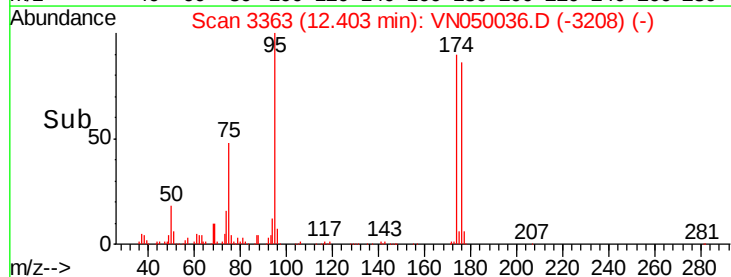
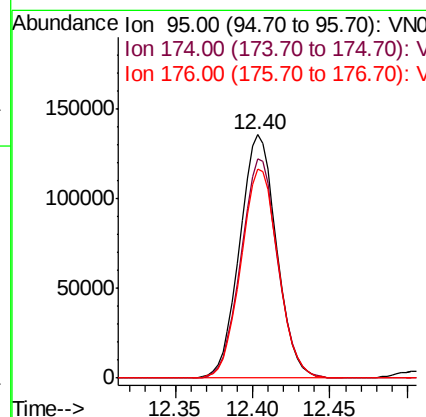
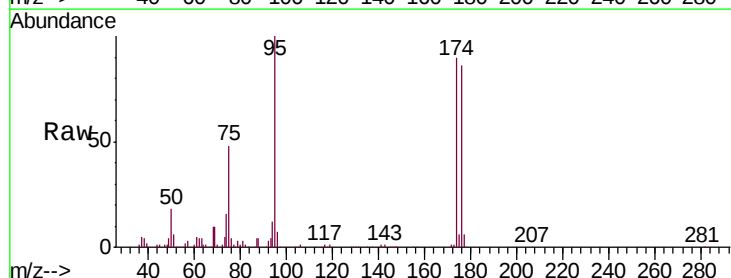
Manual Integrations
APPROVED

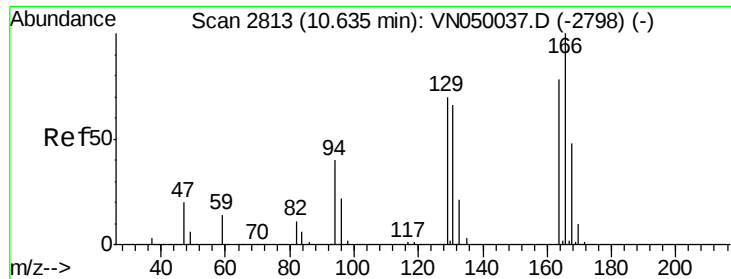
MMDadoda
7/26/2018 3:53:36 PM



#60
4-Bromofluorobenzene
Concen: 27.64 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.2	72.3	108.5
176	87.0	70.0	105.0





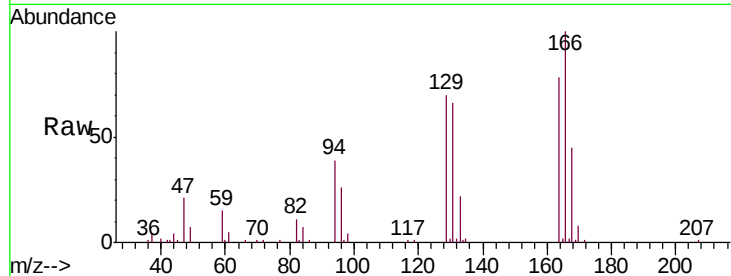
#61
Tetrachloroethene
Concen: 5.31 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.1	100.0	150.0
129	89.4	69.3	103.9
131	85.2	68.8	103.2

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:36 PM



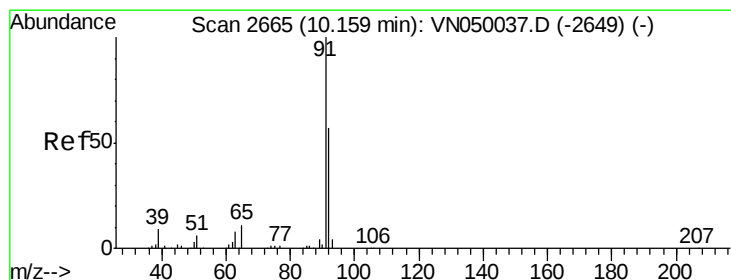
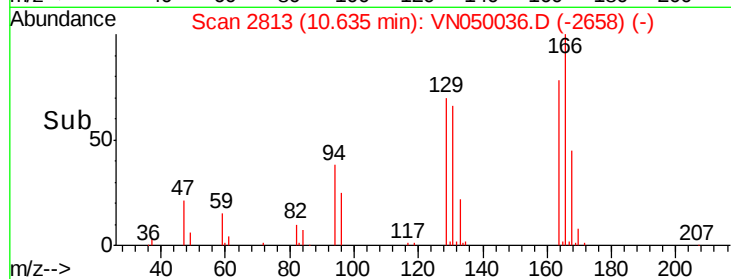
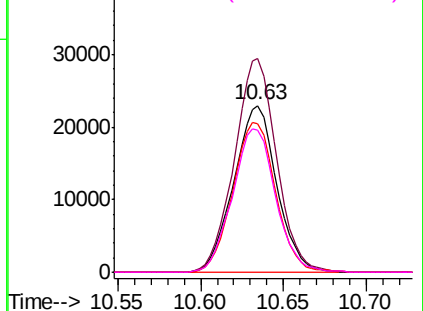
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

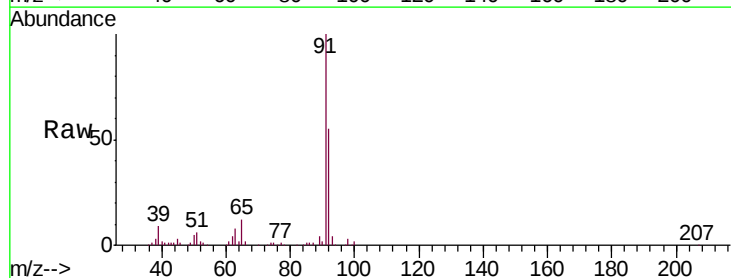
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62
Toluene
Concen: 5.02 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

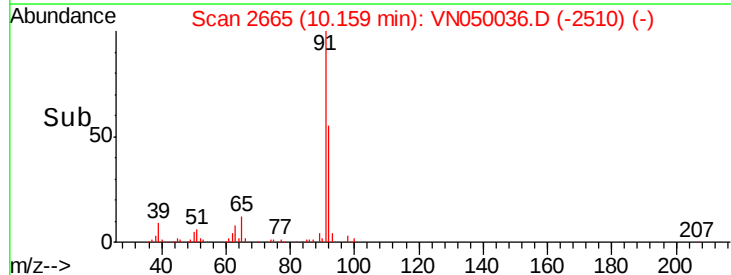
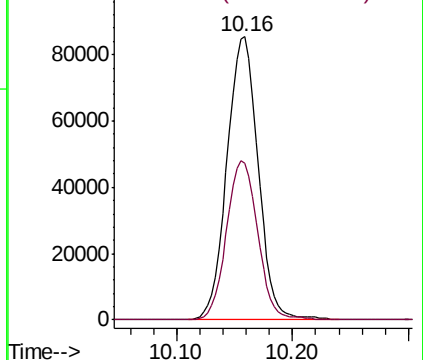
Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.4	45.7	68.5

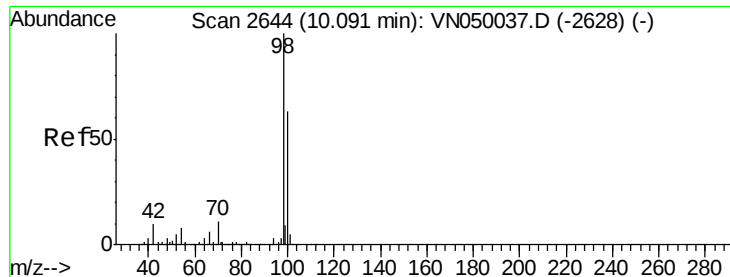


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.14 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 98 Resp: 791363

Ion Ratio Lower Upper

98 100

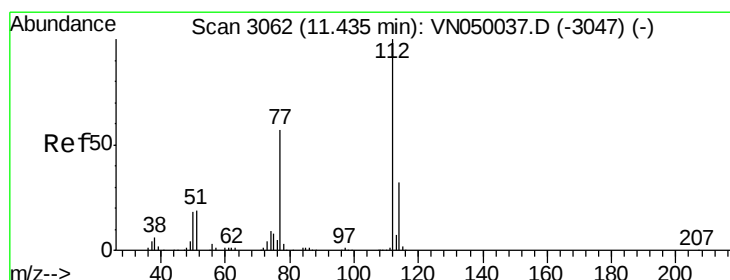
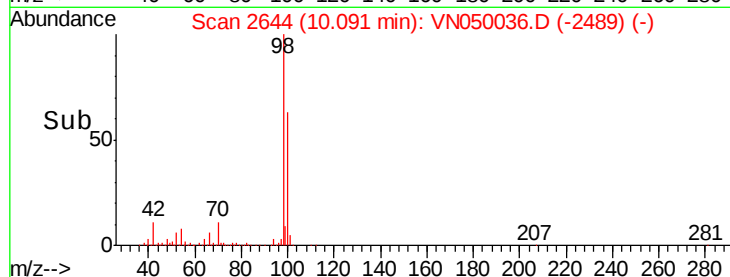
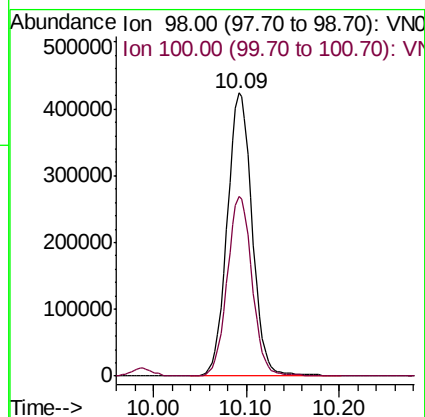
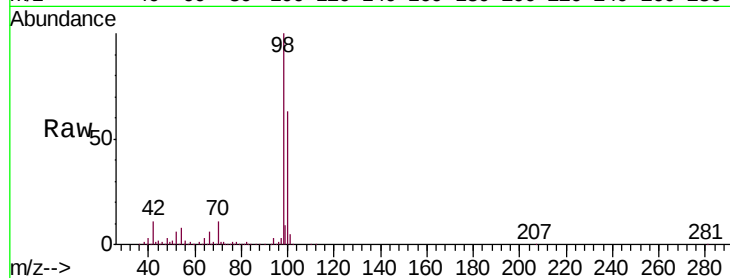
100 63.0 51.2 76.8

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:36 PM



#64

Chlorobenzene

Concen: 4.96 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN050036.D

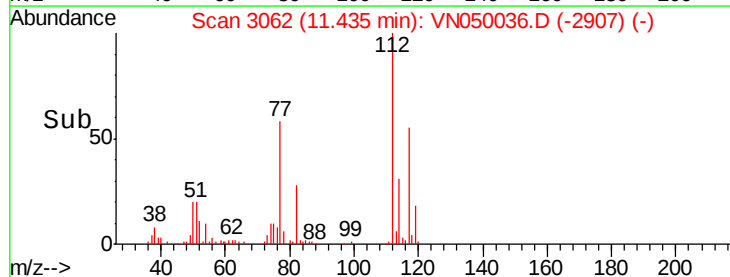
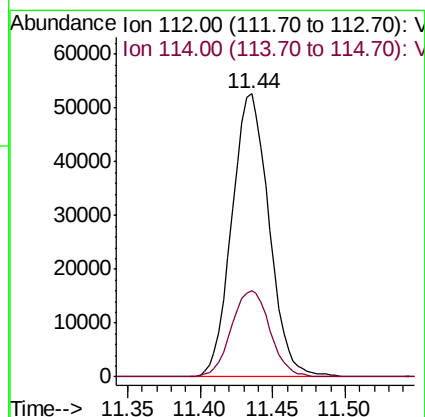
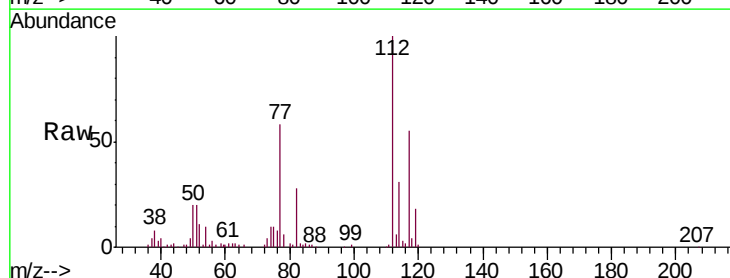
Acq: 25 Jul 2018 8:29

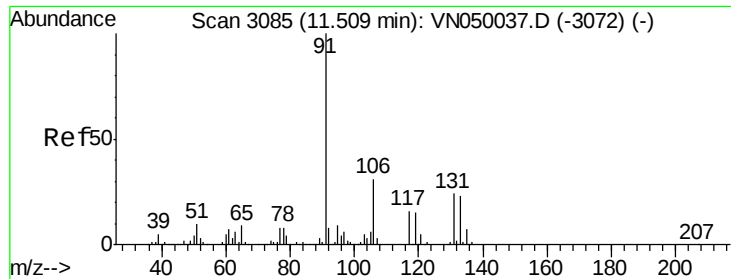
Tgt Ion: 112 Resp: 93680

Ion Ratio Lower Upper

112 100

114 30.7 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 5.14 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

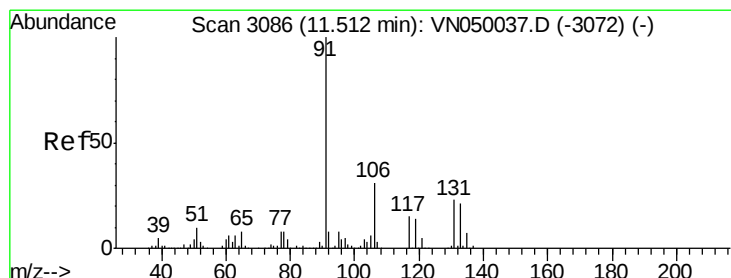
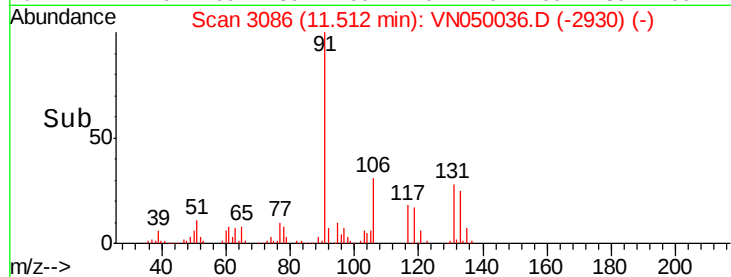
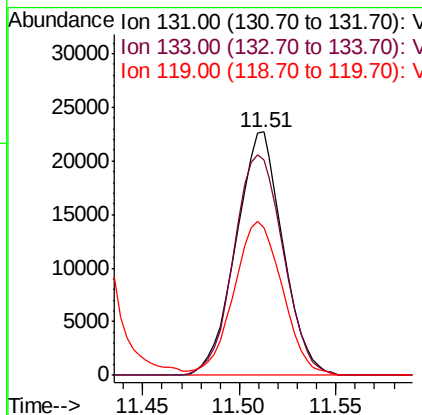
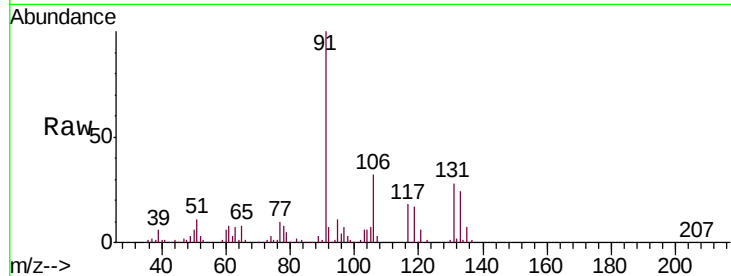
ClientSampled :

VSTDIC005

Tot Ion:	131	Resp:	38381
Ion Ratio	Lower	Upper	
131	100		
133	95.6	0.0	190.0
119	65.6	0.0	131.6

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:36 PM



#66

Ethyl Benzene

Concen: 4.35 ug/l

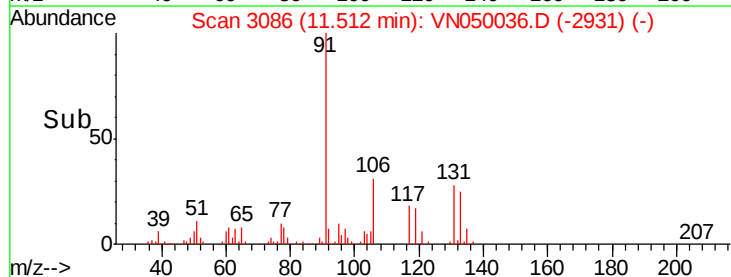
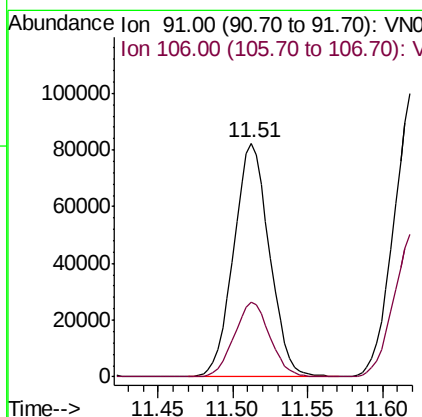
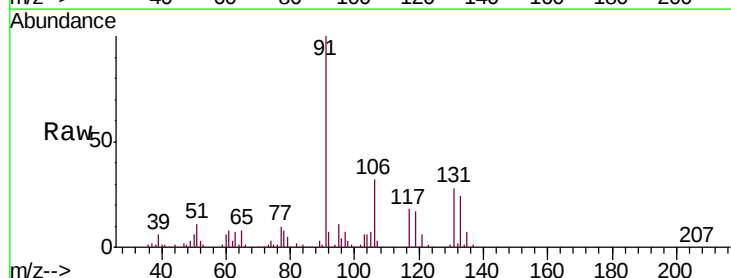
RT: 11.51 min Scan# 3086

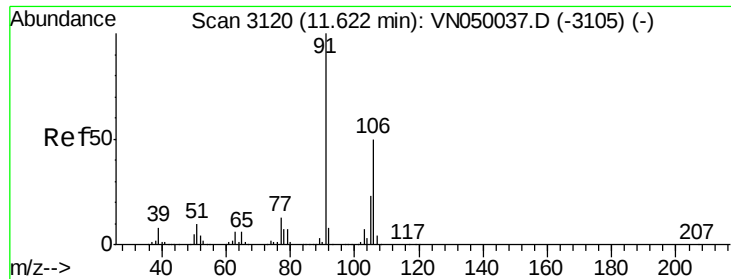
Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Tgt Ion:	91	Resp:	137035
Ion Ratio	Lower	Upper	
91	100		
106	31.9	25.1	37.7





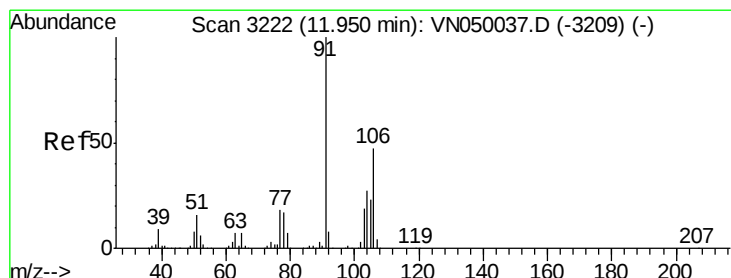
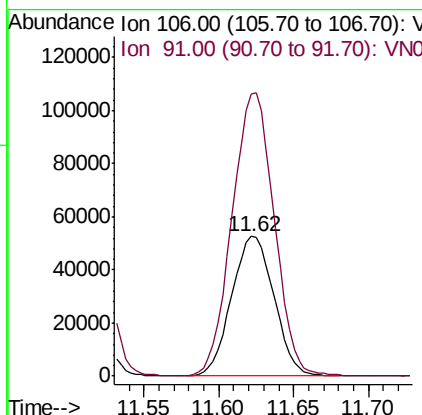
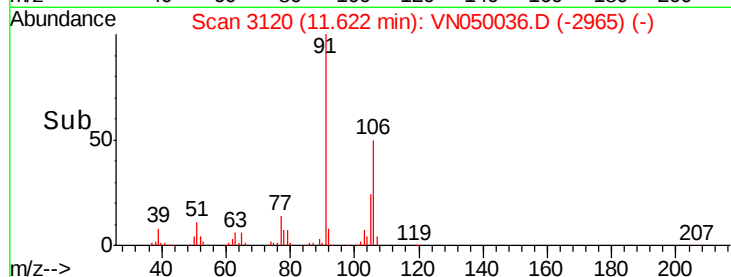
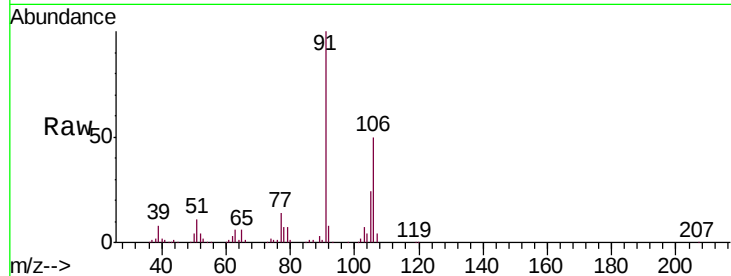
#67
m/p-Xylenes
Concen: 8.33 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	200.1	162.5	243.7		

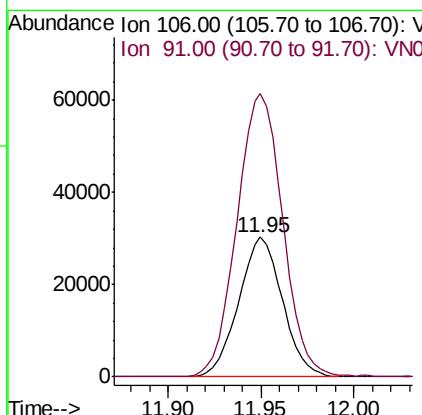
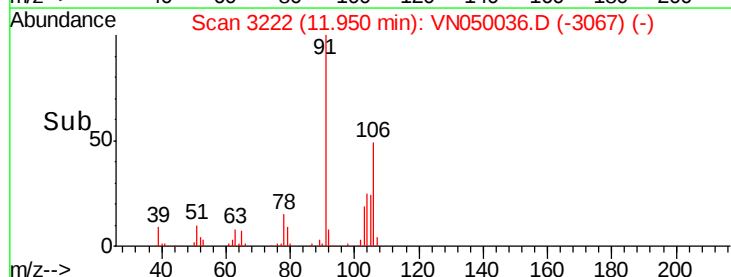
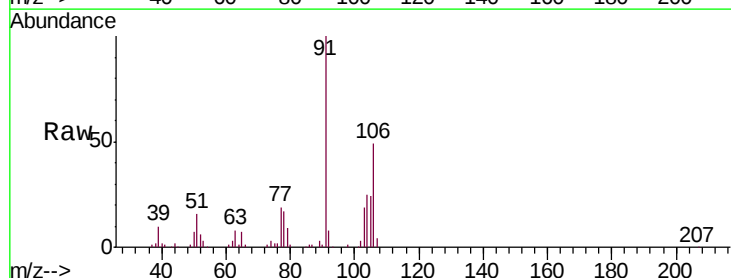
Manual Integrations
APPROVED

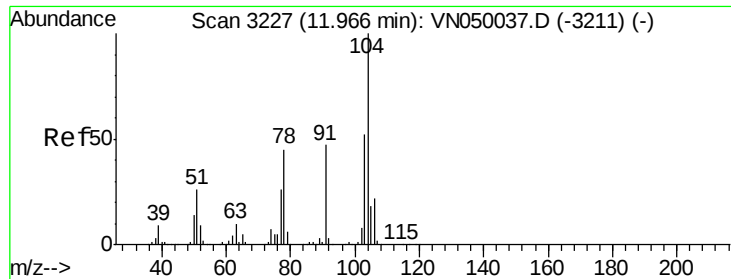
MMDadoda
7/26/2018 3:53:36 PM



#68
o-Xylene
Concen: 4.35 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	211.3	106.8	320.4		





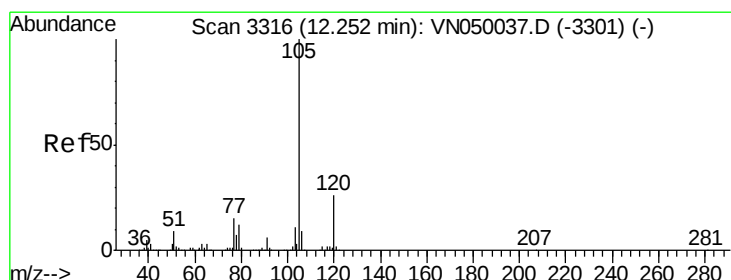
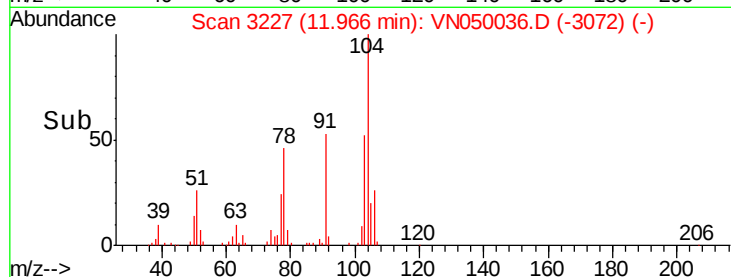
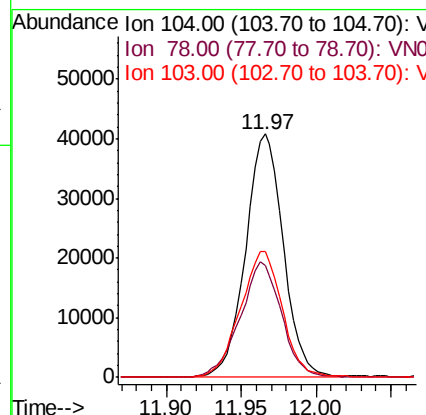
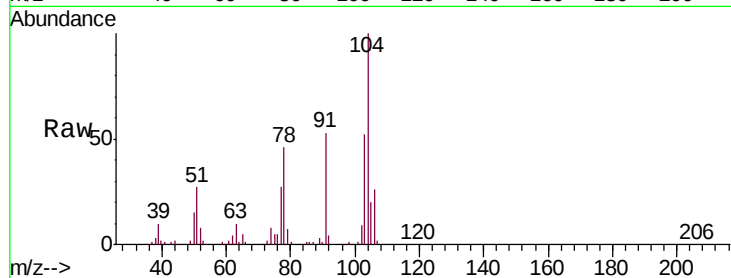
#69
Stvrene
Concen: 3.81 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.9	39.3	58.9
103	57.2	44.5	66.7

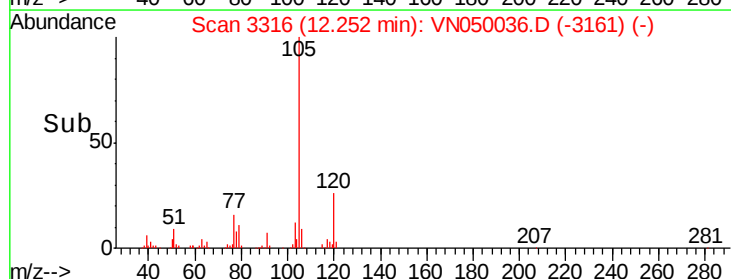
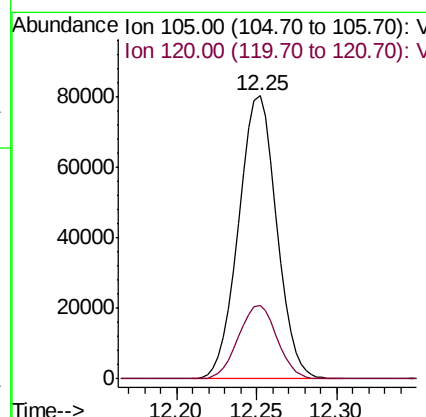
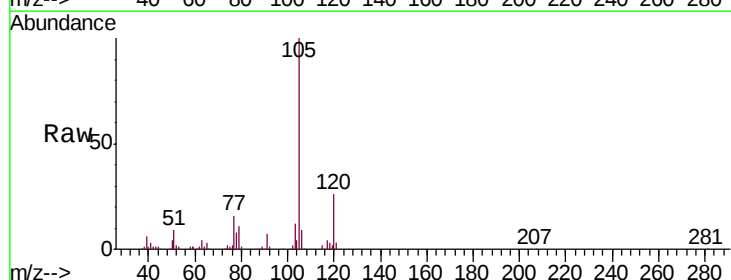
Manual Integrations
APPROVED

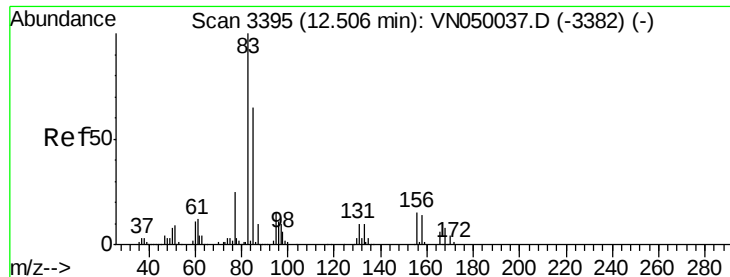
MMDadoda
7/26/2018 3:53:36 PM



#70
Isopropylbenzene
Concen: 4.17 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.2	18.9	35.1





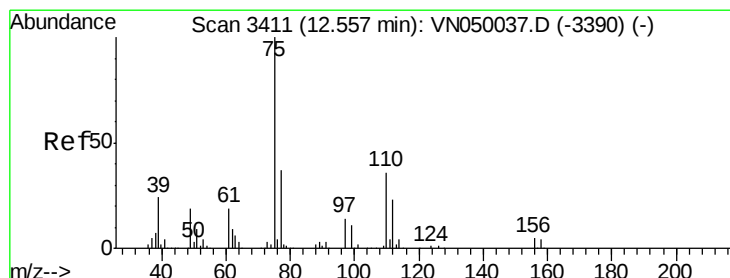
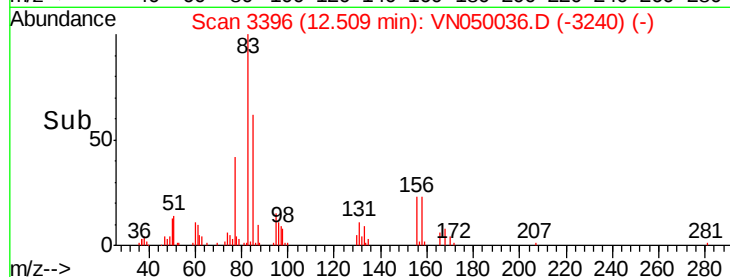
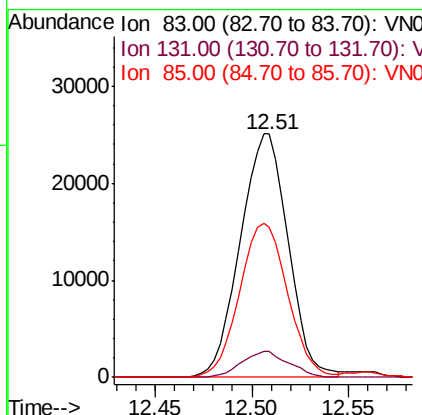
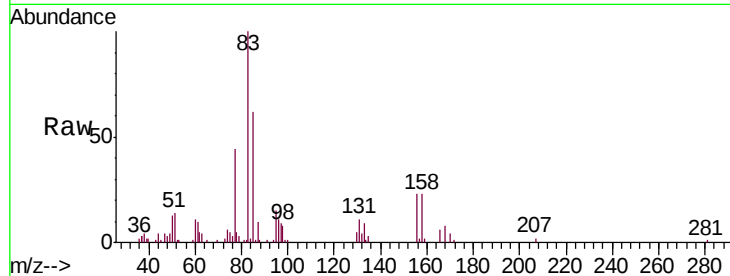
#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.17 ug/l
 RT: 12.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	83	Resp	43268
Ion Ratio	100	Lower	Upper
83	100		
131	10.4	5.2	15.6
85	63.4	31.7	95.1

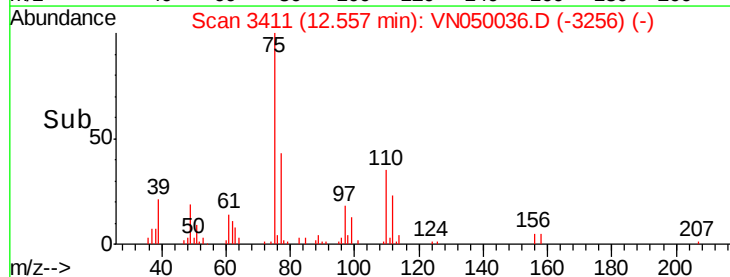
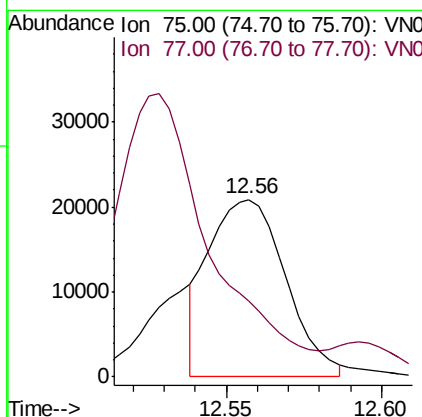
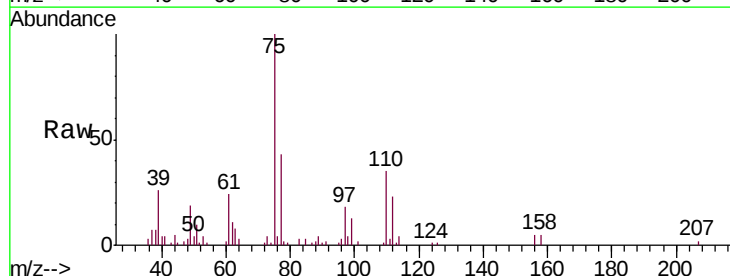
Manual Integrations
 APPROVED

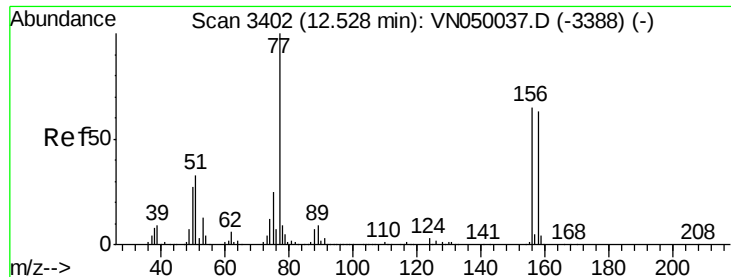
MMDadoda
 7/26/2018 3:53:36 PM



#72
 1,2,3-Trichloropropane
 Concen: 3.57 ug/l m
 RT: 12.56 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion	75	Resp	36030
Ion Ratio	100	Lower	Upper
75	100		
77	201.6	0.0	454.4





#73

Bromobenzene

Concen: 4.78 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

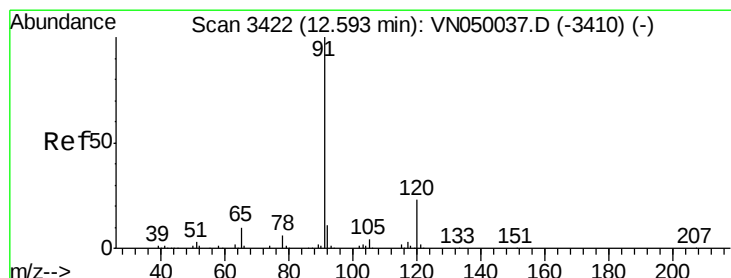
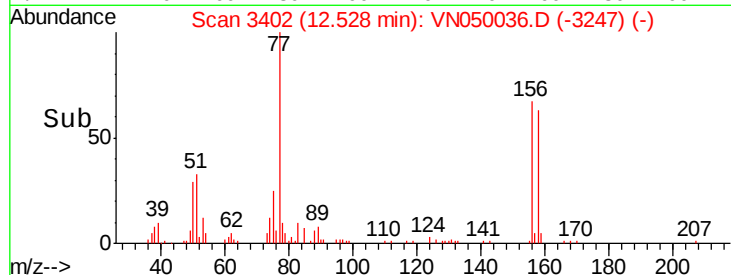
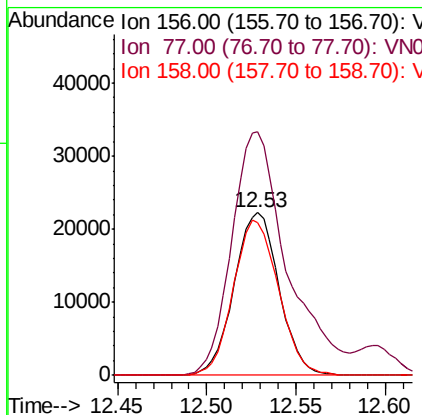
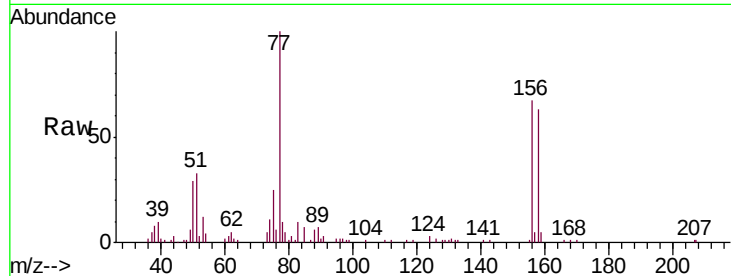
ClientSampleId :

VSTDIC005

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	186.0	0.0	39052		359.8
158	95.9	0.0	192.8		

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:36 PM



#74

n-propylbenzene

Concen: 4.13 ug/l

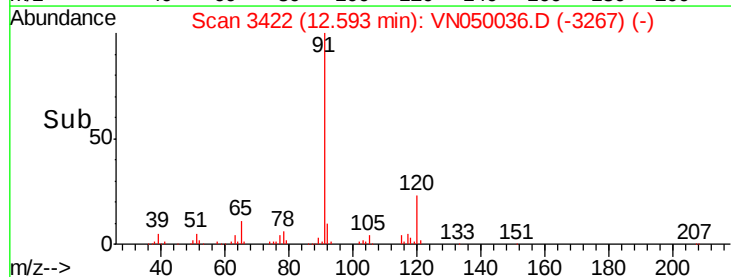
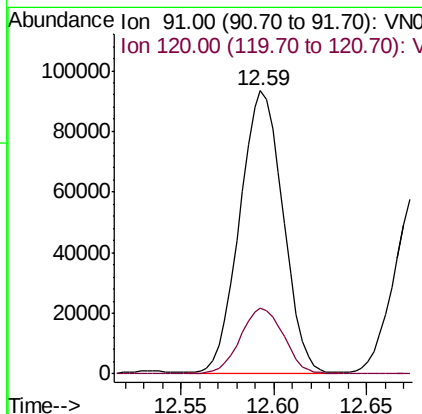
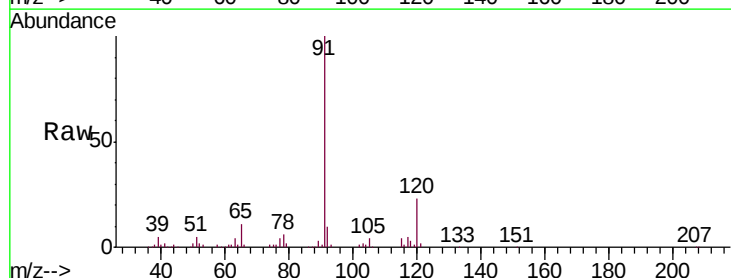
RT: 12.59 min Scan# 3422

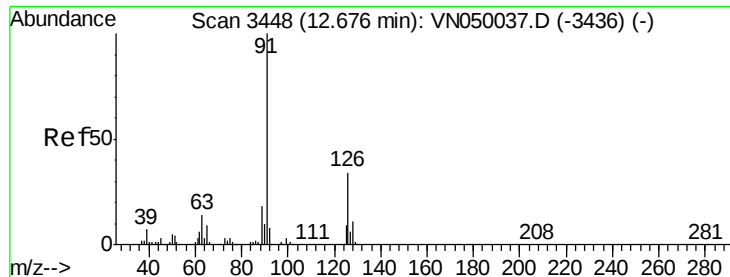
Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	23.1	0.0	151485		46.4





#75

2-Chlorotoluene

Concen: 4.45 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 97675

Ion Ratio Lower Upper

91 100

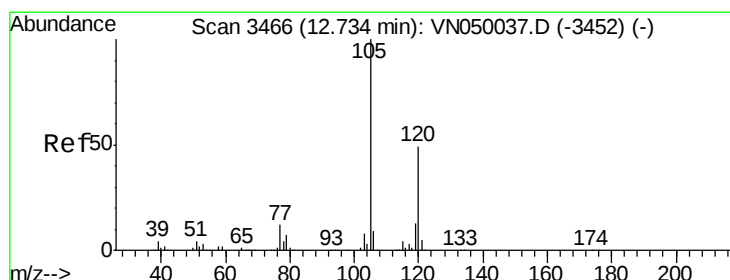
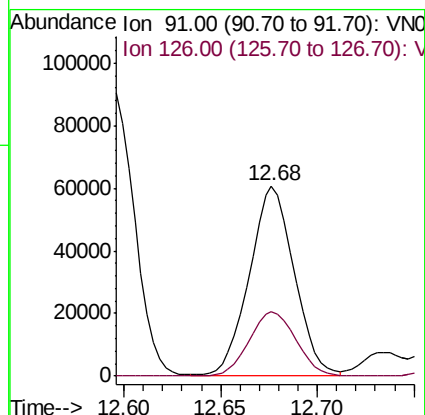
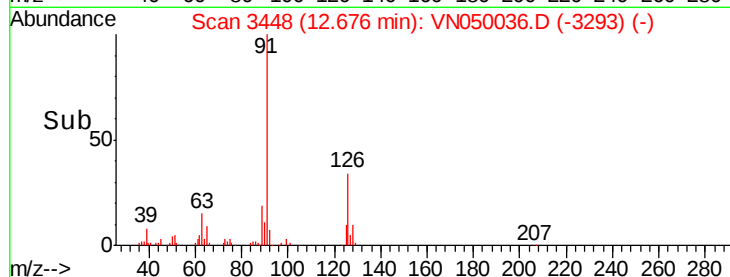
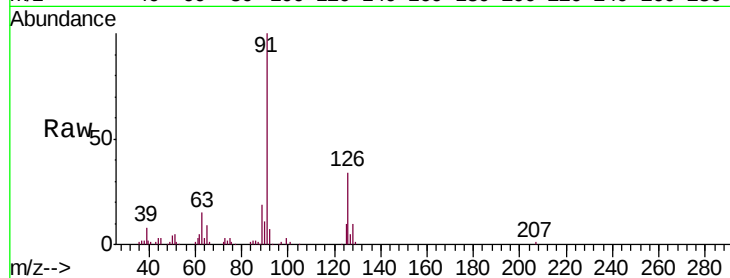
126 35.1 0.0 68.6

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:36 PM



#76

1,3,5-Trimethylbenzene

Concen: 3.96 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050036.D

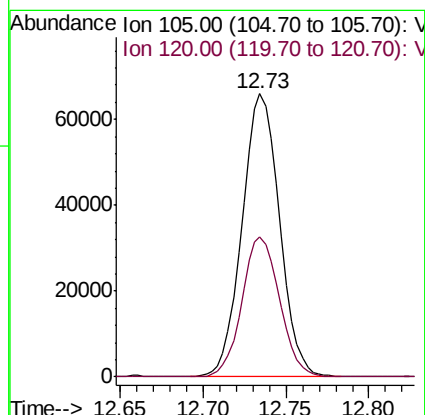
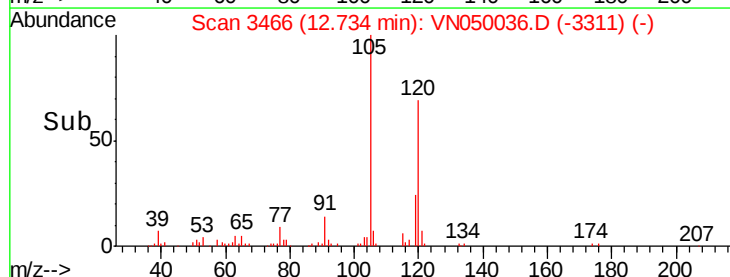
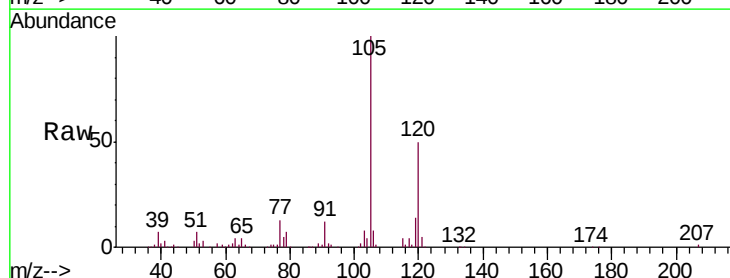
Acq: 25 Jul 2018 8:29

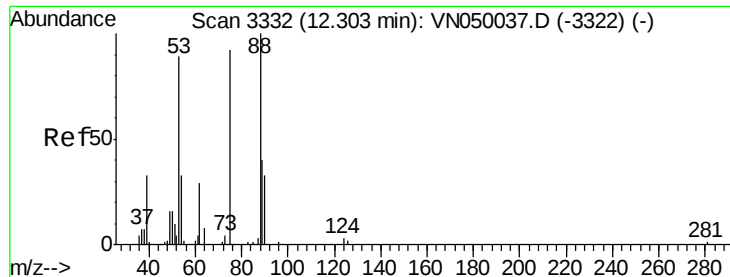
Tgt Ion: 105 Resp: 103999

Ion Ratio Lower Upper

105 100

120 49.5 0.0 98.0





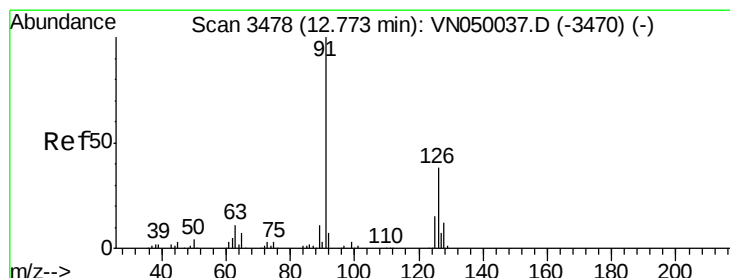
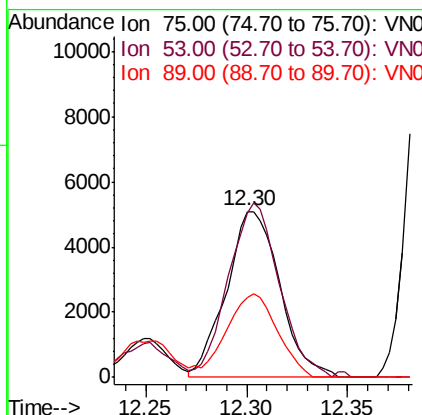
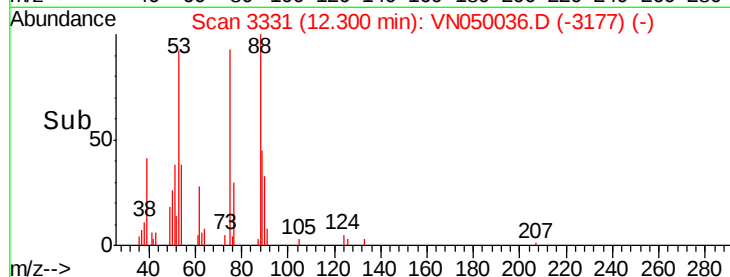
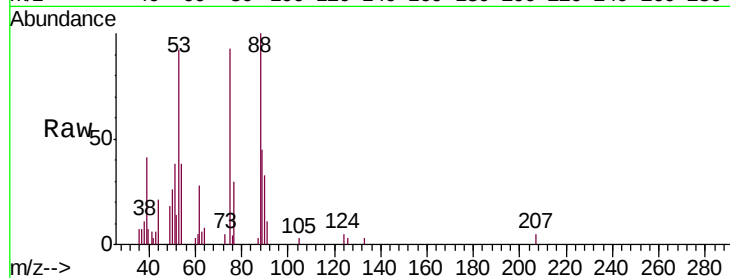
#77
t-1,4-Dichloro-2-butene
Concen: 4.35 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	96.3	44.6	134.0
89	48.6	20.7	62.1

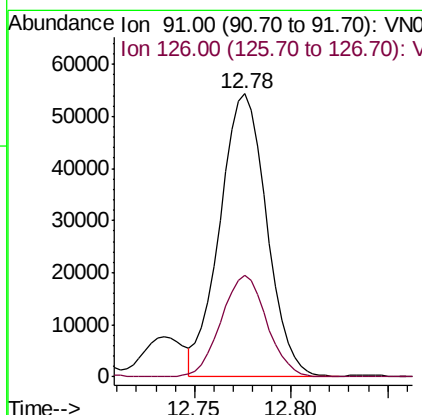
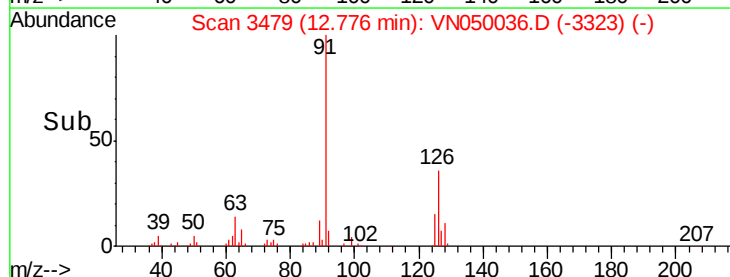
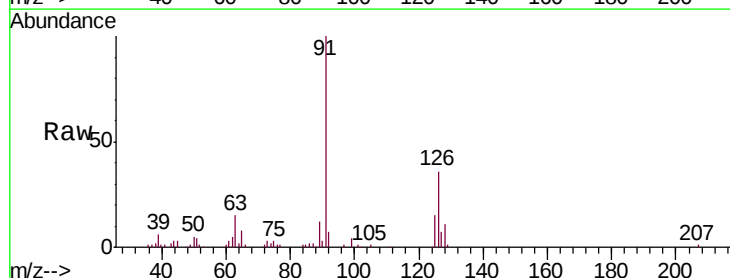
Manual Integrations
APPROVED

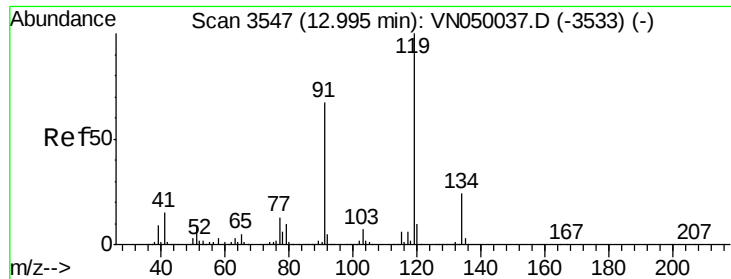
MMDadoda
7/26/2018 3:53:36 PM



#78
4-Chlorotoluene
Concen: 4.18 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.2	0.0	68.4





#79

tert-butylbenzene

Concen: 4.20 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

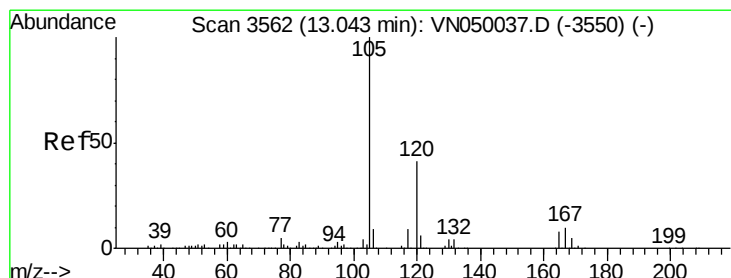
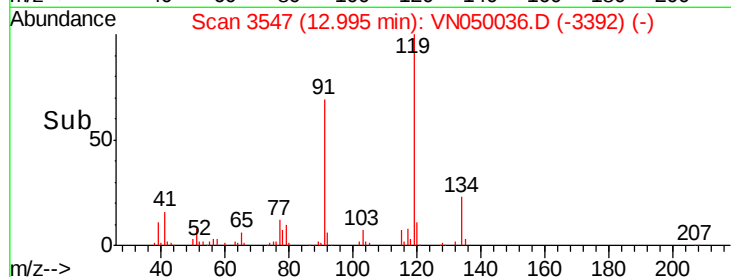
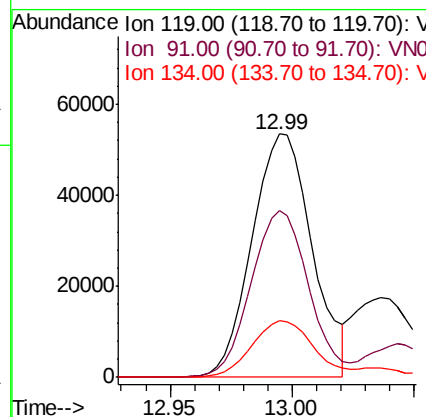
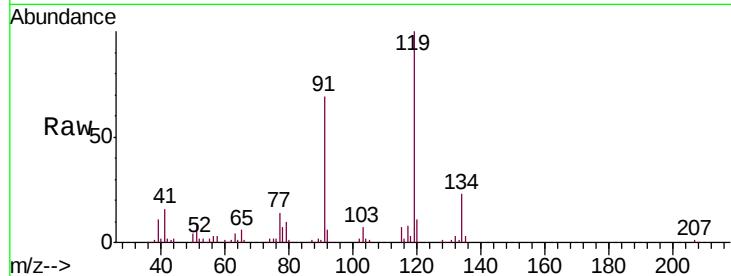
ClientSampleId :

VSTDIC005

Tot Ion:	119	Resp:	91493
Ion Ratio	Lower	Upper	
119	100		
91	65.8	0.0	126.8
134	23.7	0.0	47.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:36 PM



#80

1,2,4-Trimethylbenzene

Concen: 3.82 ug/l

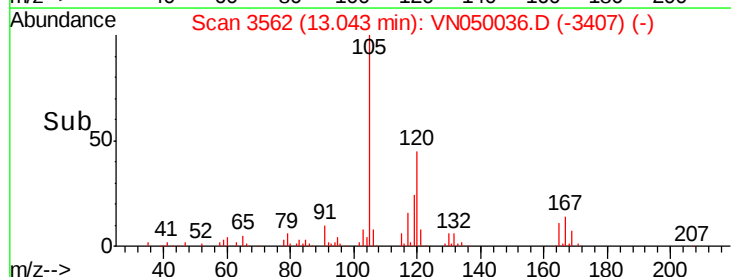
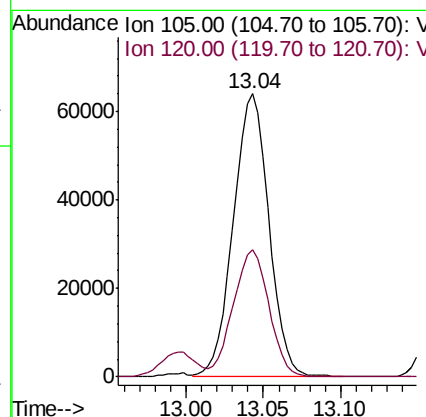
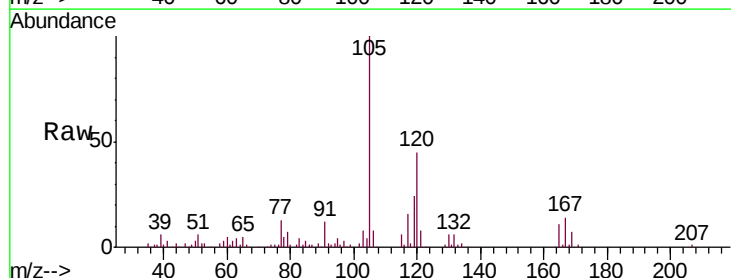
RT: 13.04 min Scan# 3562

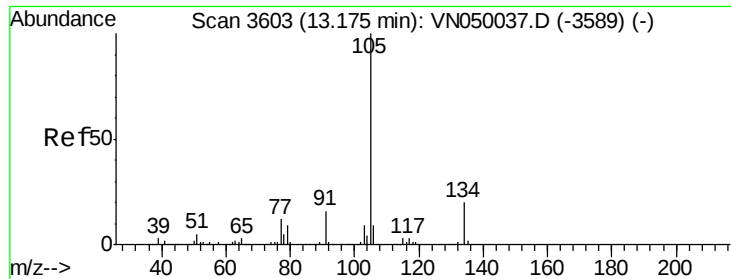
Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Tgt Ion:	105	Resp:	101597
Ion Ratio	Lower	Upper	
105	100		
120	45.3	0.0	90.6





#81

sec-Butylbenzene

Concen: 4.12 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 124168

Ion Ratio Lower Upper

105 100

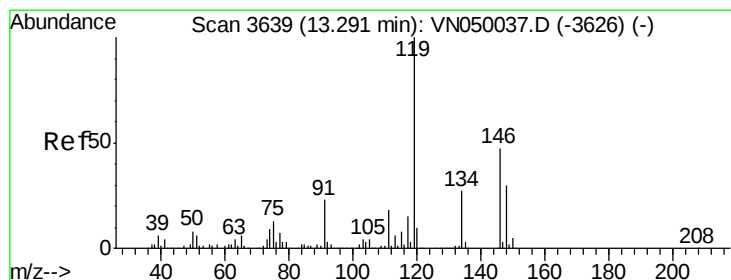
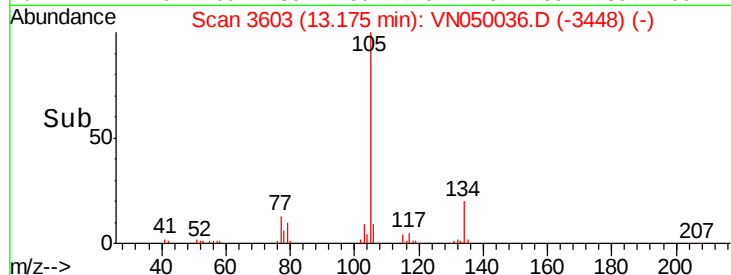
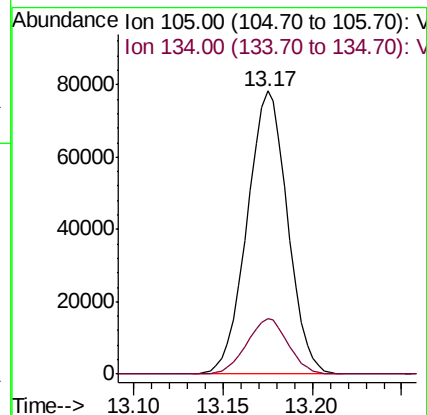
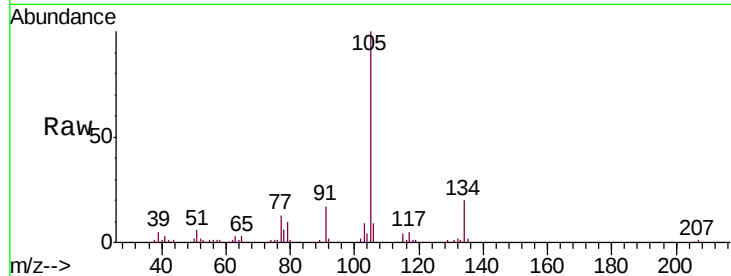
134 19.9 0.0 40.6

Manual Integrations

APPROVED

MMDadoda

7/26/2018 3:53:36 PM



#82

p-Isopropyltoluene

Concen: 3.70 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN050036.D

Acq: 25 Jul 2018 8:29

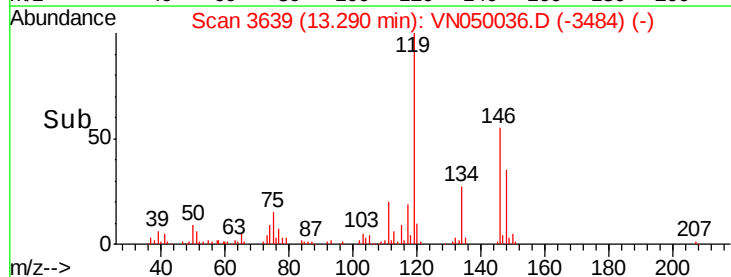
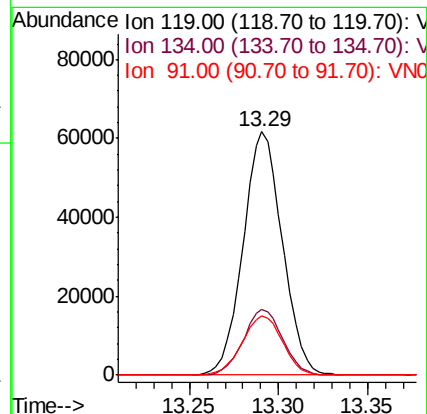
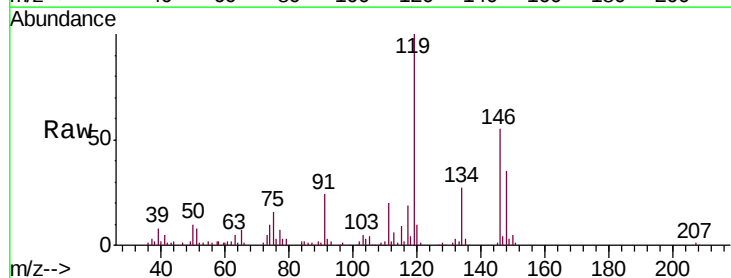
Tgt Ion:119 Resp: 94787

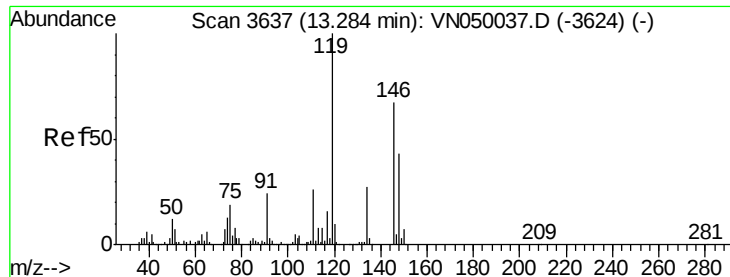
Ion Ratio Lower Upper

119 100

134 27.0 0.0 52.2

91 25.2 0.0 45.6





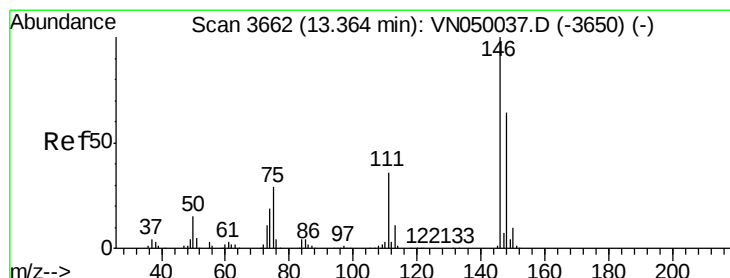
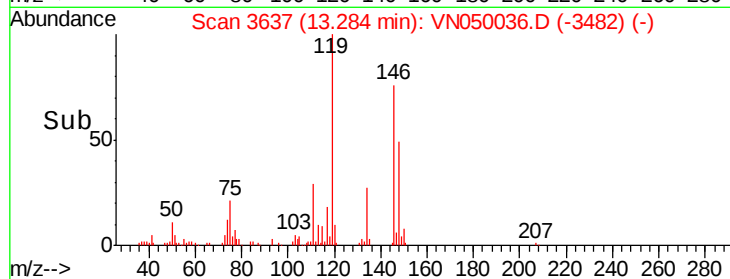
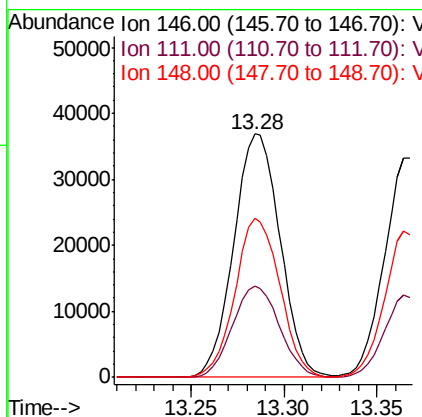
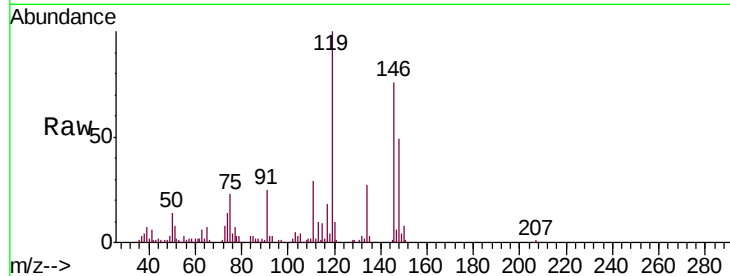
#83
 1,3-Dichlorobenzene
 Concen: 4.48 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.1	57.1
148	63.3	31.9	95.9

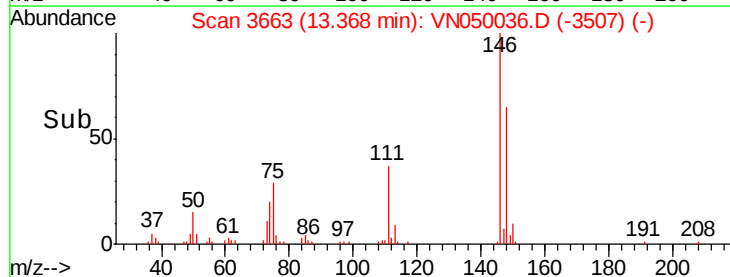
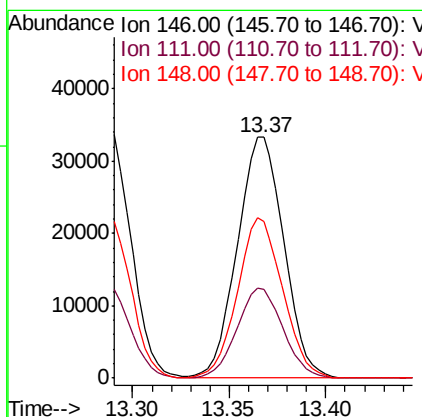
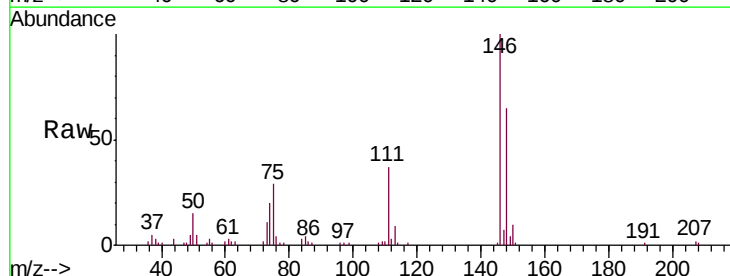
Manual Integrations
 APPROVED

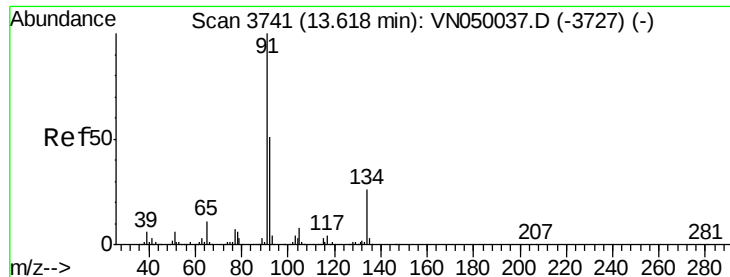
MMDadoda
 7/26/2018 3:53:36 PM



#84
 1,4-Dichlorobenzene
 Concen: 4.12 ug/l
 RT: 13.37 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	17.9	53.8
148	64.7	32.4	97.0





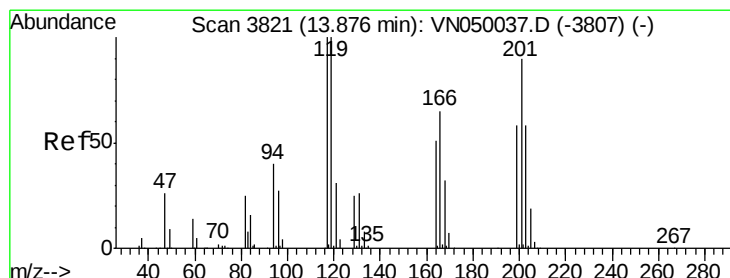
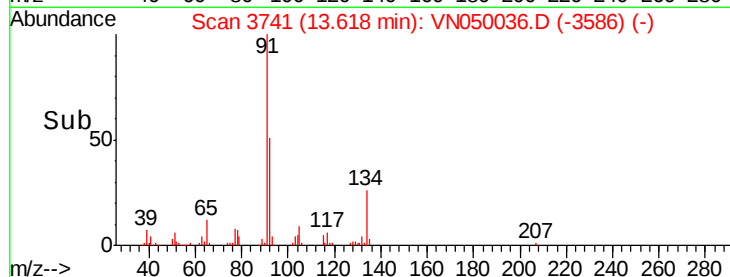
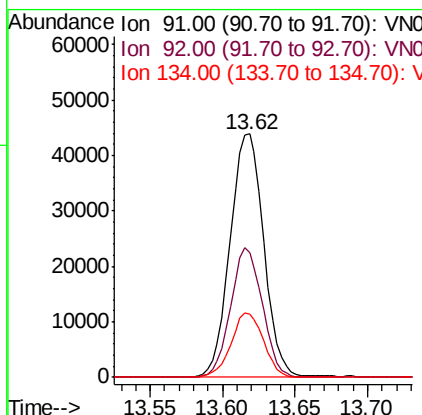
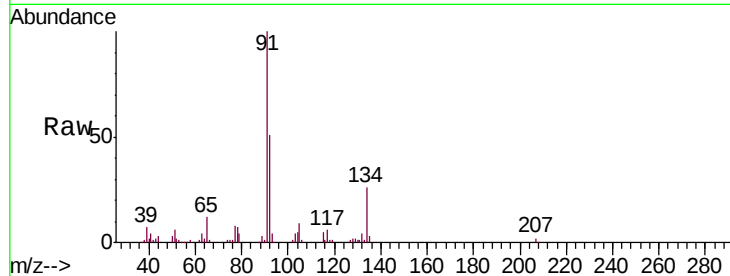
#85
n-Butylbenzene
Concen: 3.56 ug/l
RT: 13.62 min Scan# 3741
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
91	100	70960		
92	49.8	0.0	102.8	
134	25.3	0.0	51.0	

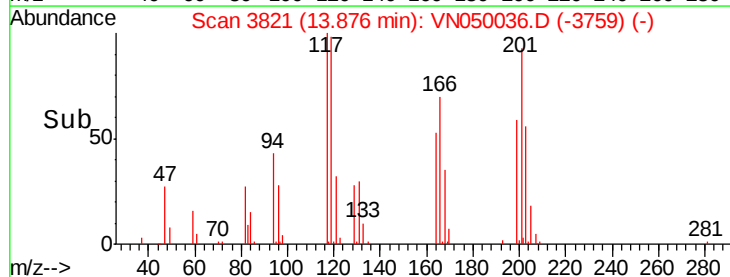
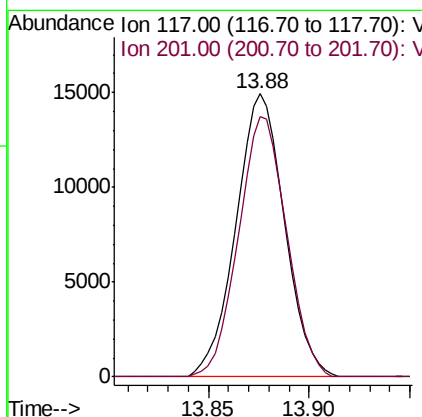
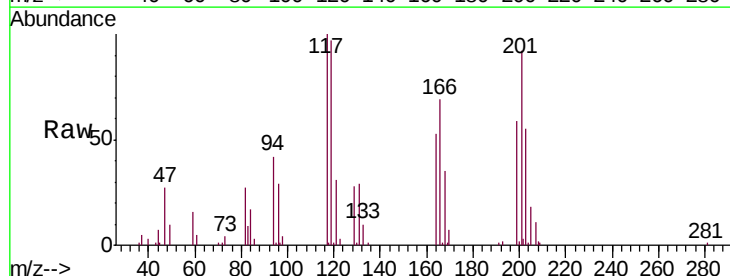
Manual Integrations
APPROVED

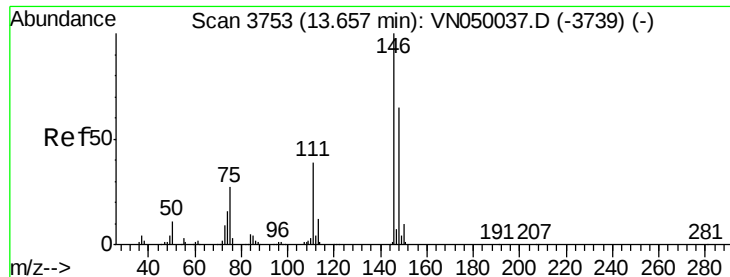
MMDadoda
7/26/2018 3:53:36 PM



#86
Hexachloroethane
Concen: 4.99 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	25188		
201	90.9	46.6	139.7	





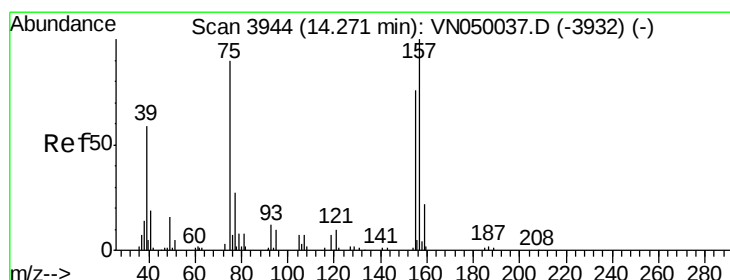
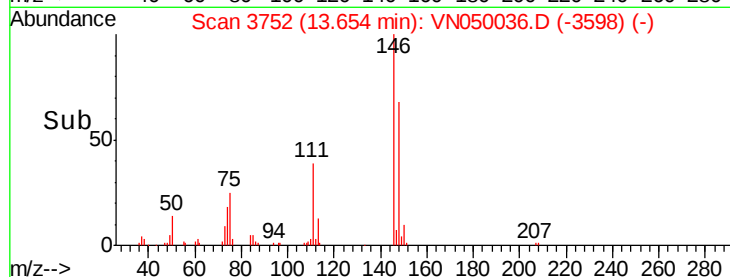
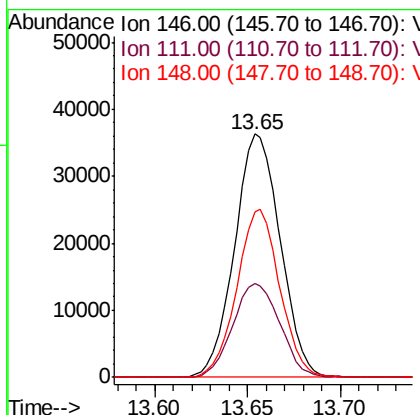
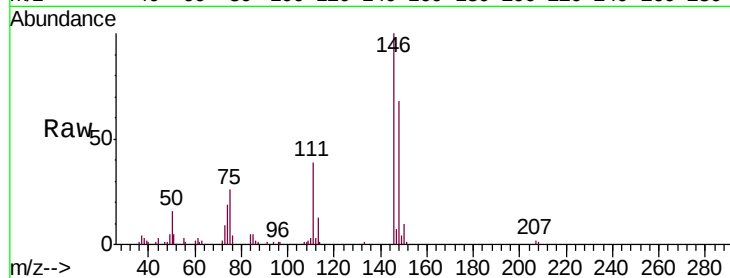
#87
 1,2-Dichlorobenzene
 Concen: 4.32 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.8	59.3
148	64.8	31.8	95.3

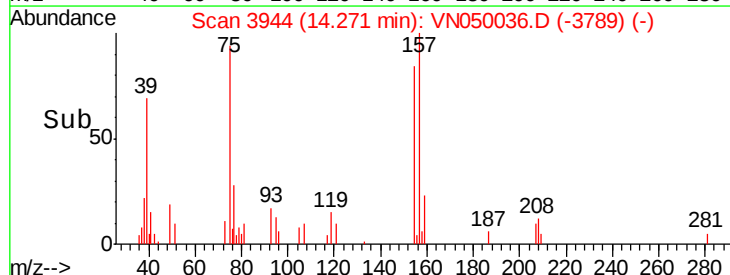
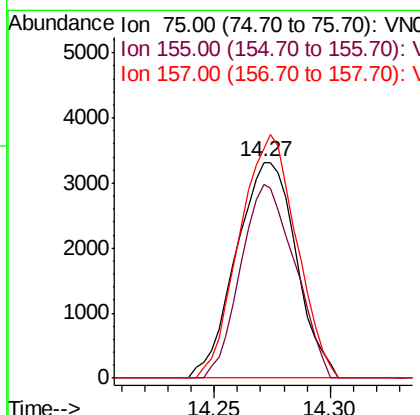
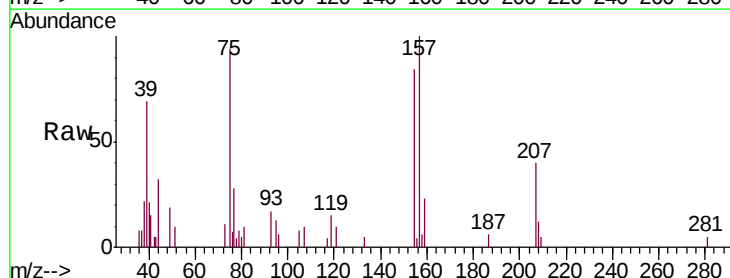
Manual Integrations
 APPROVED

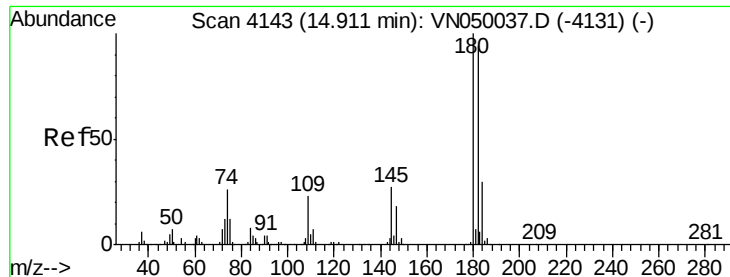
MMDadoda
 7/26/2018 3:53:36 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 4.60 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.4	73.0	109.6
157	107.1	94.9	142.3





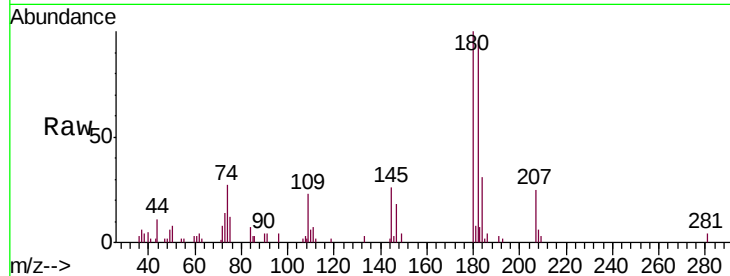
#89
 1,2,4-Trichlorobenzene
 Concen: 2.83 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.4	76.7	115.1
145	27.8	23.4	35.0

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:53:36 PM

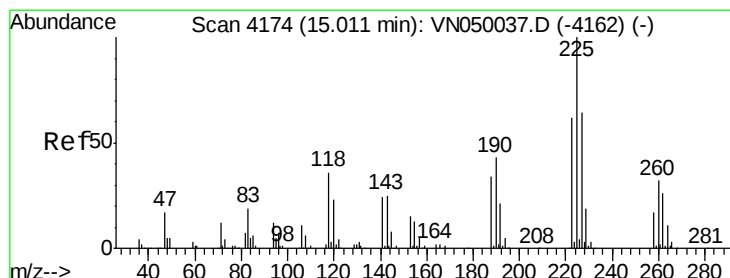
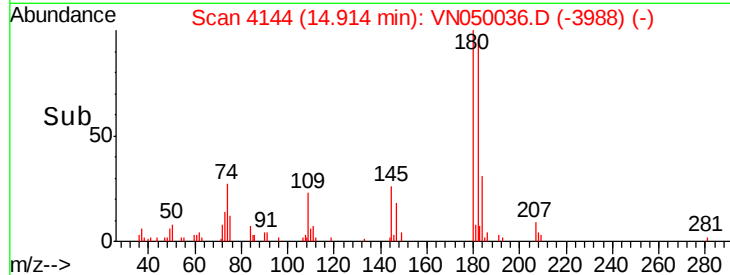
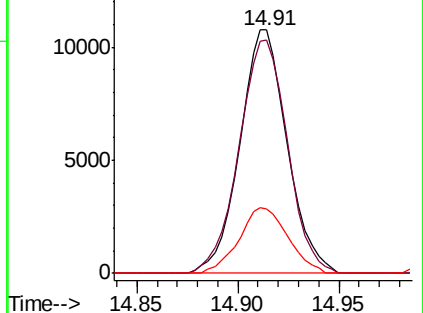


Abundance

Ion 180.00 (179.70 to 180.70): V

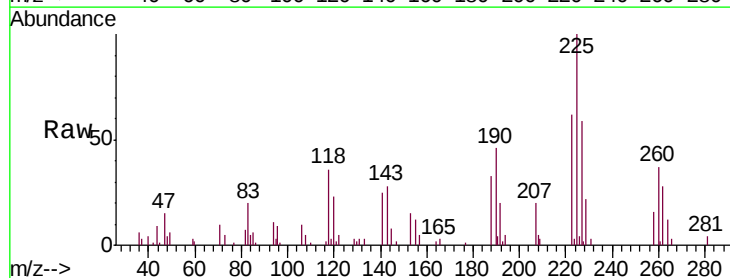
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
 Hexachlorobutadiene
 Concen: 4.66 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050036.D
 Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	0.0	124.4
227	61.6	0.0	133.0

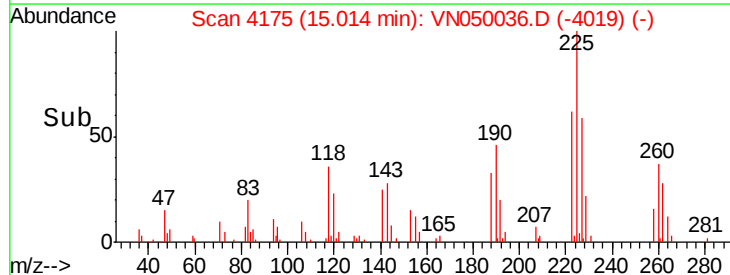
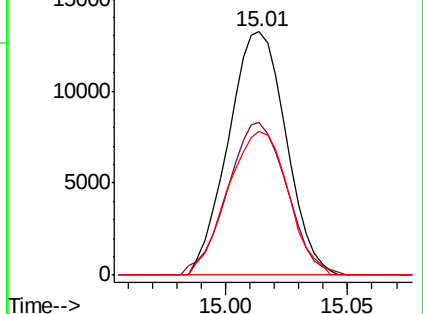


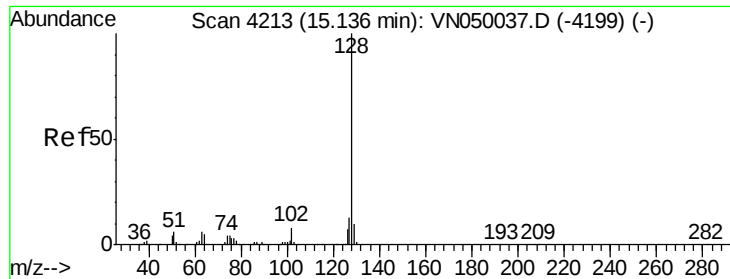
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





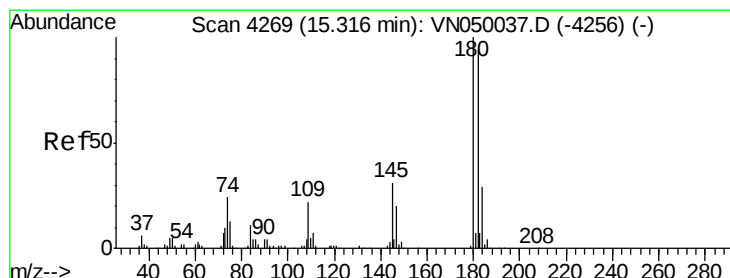
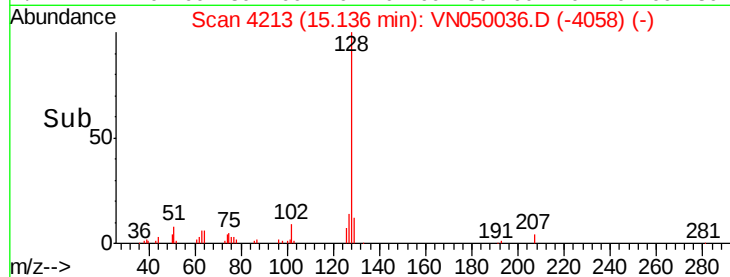
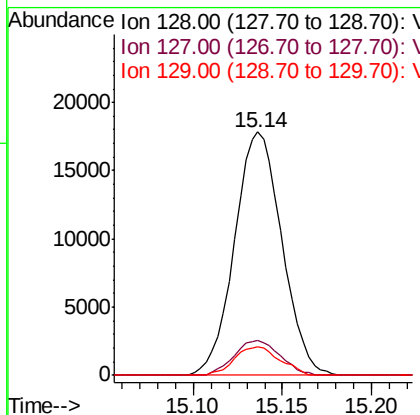
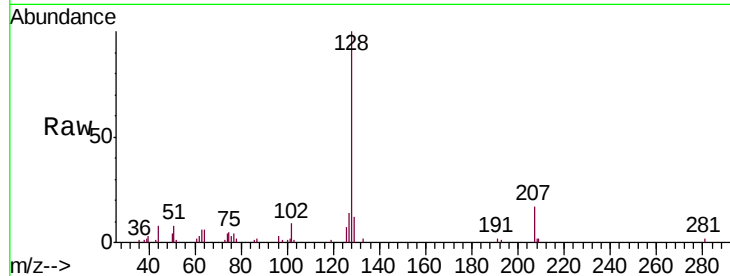
#91
Naphthalene
Concen: 2.69 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.2	15.4
129	11.2	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:53:36 PM



#92
1,2,3-Trichlorobenzene
Concen: 3.20 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN050036.D
Acq: 25 Jul 2018 8:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	0.0	188.8
145	29.1	0.0	60.8

