

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
 Data File : VN049838.D
 Acq On : 17 Jul 2018 10:37
 Operator : MD\SY
 Sample : VSTDIC001
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 7/18/2018 11:59:07 AM

Quant Time: Jul 17 12:55:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 17 12:26:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	513562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	825444	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	705090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	292832	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	7329	1.27	ug/l	100
3) Chloromethane	2.06	50	8835	1.17	ug/l	91
4) Vinyl Chloride	2.18	62	9235	1.16	ug/l	96
5) Bromomethane	2.56	94	7040	1.23	ug/l	96
6) Chloroethane	2.70	64	5954	1.22	ug/l	93
7) Trichlorofluoromethane	3.01	101	12912	1.25	ug/l	93
8) Diethyl Ether	3.41	74	4637	1.22	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	3.74	101	7822	1.23	ug/l	98
12) 1,1-Dichloroethene	3.73	96	6763	1.16	ug/l	91
14) Allyl chloride	4.32	41	10052	1.04	ug/l	97
15) Acrylonitrile	5.00	53	11375	4.20	ug/l	98
16) Acetone	3.83	43	13009m	5.85	ug/l	
17) Carbon Disulfide	4.04	76	22101	1.11	ug/l	100
18) Methyl Acetate	4.34	43	12848	1.59	ug/l	95
19) Methyl tert-butyl Ether	5.06	73	15085	0.89	ug/l	91
20) Methylene Chloride	4.54	84	9080	1.27	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	6461	1.00	ug/l	92
22) Diisopropyl ether	5.96	45	16083	0.87	ug/l #	87
23) Vinyl Acetate	5.90	43	58979	4.14	ug/l	97
24) 1,1-Dichloroethane	5.85	63	13002	1.12	ug/l	99
25) 2-Butanone	6.85	43	15012	4.43	ug/l	94
26) 2,2-Dichloropropane	6.83	77	9804	1.05	ug/l	97
27) cis-1,2-Dichloroethene	6.82	96	7266	1.04	ug/l	98
28) Bromochloromethane	7.20	49	5335	1.02	ug/l #	99
29) Tetrahydrofuran	7.22	42	9403	4.29	ug/l	90
30) Chloroform	7.37	83	13537	1.14	ug/l	99
31) Cyclohexane	7.66	56	17536	1.53	ug/l #	31
32) 1,1,1-Trichloroethane	7.57	97	10990	1.09	ug/l #	50
36) 1,1-Dichloropropene	7.79	75	9772	1.02	ug/l	96
37) Ethyl Acetate	6.94	43	6093	0.81	ug/l #	89
38) Carbon Tetrachloride	7.77	117	10642	1.08	ug/l	97
39) Methylcyclohexane	9.08	83	9547	0.95	ug/l	86
40) Benzene	8.04	78	28580	0.99	ug/l	96
41) Methacrylonitrile	7.18	41	3065m	0.85	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
 Data File : VN049838.D
 Acq On : 17 Jul 2018 10:37
 Operator : MD\SY
 Sample : VSTDIC001
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 7/18/2018 11:59:07 AM

Quant Time: Jul 17 12:55:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 17 12:26:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-Dichloroethane	8.13	62	10743	1.13	ug/l	93
43) Isopropyl Acetate	8.17	43	9734	0.54	ug/l	98
44) Trichloroethene	8.83	130	7789	1.02	ug/l	97
45) 1,2-Dichloropropane	9.12	63	7897	1.06	ug/l	96
46) Dibromomethane	9.21	93	4863	0.98	ug/l	98
47) Bromodichloromethane	9.40	83	9792	1.00	ug/l #	91
48) Methyl methacrylate	9.20	41	5157	0.81	ug/l	89
49) 1,4-Dioxane	9.20	88	1585	15.18	ug/l #	85
51) 4-Methyl-2-Pentanone	9.99	43	28153	3.64	ug/l	95
52) Toluene	10.16	92	14695	0.85	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	7940	0.78	ug/l #	86
54) cis-1,3-Dichloropropene	9.84	75	9434	0.85	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	7389	1.06	ug/l	97
56) Ethyl methacrylate	10.43	69	6084	0.66	ug/l #	94
57) 1,3-Dichloropropane	10.71	76	11296	0.99	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.70	63	13087	3.04	ug/l	100
59) 2-Hexanone	10.76	43	18144	3.31	ug/l	89
60) Dibromochloromethane	10.90	129	7599	0.97	ug/l	99
61) 1,2-Dibromoethane	11.01	107	6478	0.93	ug/l	93
64) Tetrachloroethene	10.63	164	7154	1.10	ug/l	95
65) Chlorobenzene	11.44	112	19072	1.05	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	7262	1.07	ug/l #	65
67) Ethyl Benzene	11.52	91	25723	0.86	ug/l	94
68) m/p-Xylenes	11.63	106	18314	1.61	ug/l	99
69) o-Xylene	11.95	106	8358	0.77	ug/l	95
70) Styrene	11.97	104	12810	0.72	ug/l	98
71) Bromoform	12.13	173	5170	0.96	ug/l #	98
73) Isopropylbenzene	12.25	105	22401	0.96	ug/l	98
74) N-amyl acetate	12.08	43	7289	0.89	ug/l #	86
75) 1,1,2,2-Tetrachloroethane	12.51	83	8543	1.13	ug/l	95
76) 1,2,3-Trichloropropane	12.56	75	7388m	1.17	ug/l	
77) Bromobenzene	12.53	156	6746	1.06	ug/l	88
78) n-propylbenzene	12.59	91	24103	0.91	ug/l	98
79) 2-Chlorotoluene	12.68	91	15710	0.96	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	15384	0.83	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	1679	0.84	ug/l	88
82) 4-Chlorotoluene	12.78	91	14740	0.89	ug/l	98
83) tert-Butylbenzene	12.99	119	13929	0.85	ug/l	93
84) 1,2,4-Trimethylbenzene	13.04	105	15118	0.80	ug/l	95
85) sec-Butylbenzene	13.17	105	18684	0.86	ug/l	98
86) p-Isopropyltoluene	13.29	119	14708	0.79	ug/l	96
87) 1,3-Dichlorobenzene	13.29	146	10858	0.97	ug/l	97
88) 1,4-Dichlorobenzene	13.37	146	10899m	0.95	ug/l	
89) n-Butylbenzene	13.62	91	12445	0.80	ug/l	97
90) Hexachloroethane	13.87	117	4953	1.26	ug/l	96
91) 1,2-Dichlorobenzene	13.66	146	12194	1.10	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1570	1.18	ug/l	72
93) 1,2,4-Trichlorobenzene	14.91	180	3674	0.65	ug/l	86
94) Hexachlorobutadiene	15.01	225	3957	1.15	ug/l	88
95) Naphthalene	15.14	128	7815	0.56	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
Data File : VN049838.D
Acq On : 17 Jul 2018 10:37
Operator : MD\SY
Sample : VSTDICC001
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

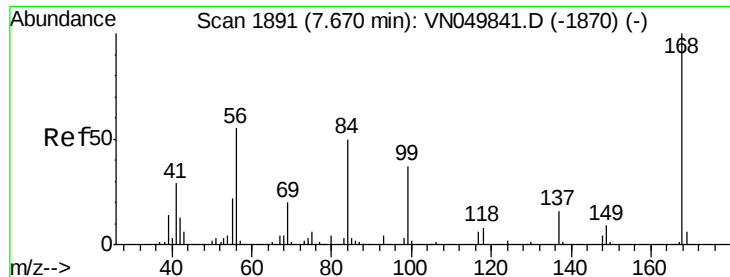
Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM

Quant Time: Jul 17 12:55:41 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071718W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 17 12:26:01 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	15.32	180	4466	0.75	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:168 Resp: 513562

Ion Ratio Lower Upper

168 100

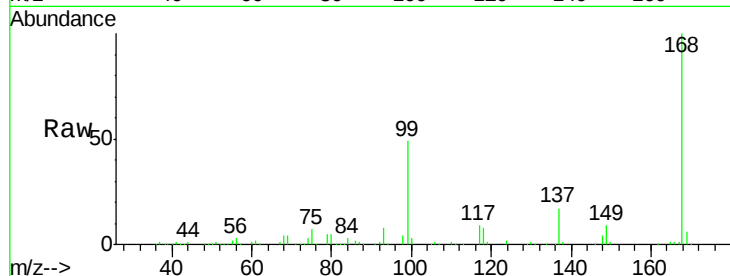
99 49.1 40.6 61.0

Manual Integrations

APPROVED

MMDadoda

7/18/2018 11:59:07 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

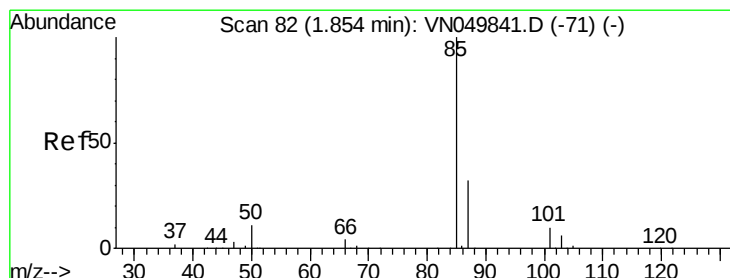
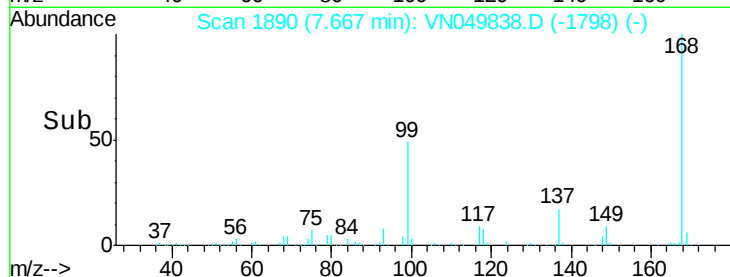
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.27 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049838.D

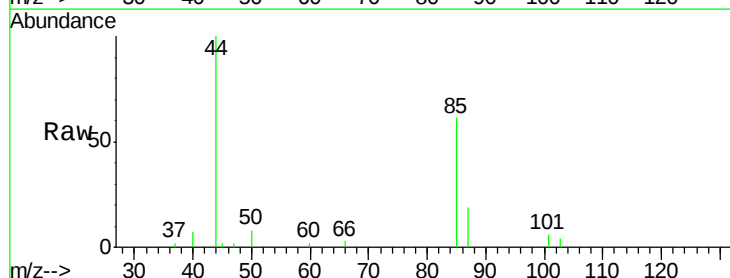
Acq: 17 Jul 2018 10:37

Tgt Ion: 85 Resp: 7329

Ion Ratio Lower Upper

85 100

87 30.8 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

6000

5000

4000

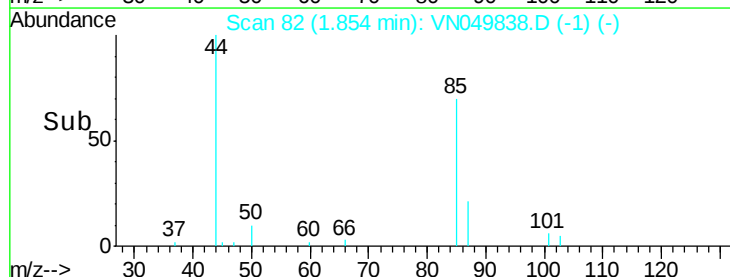
3000

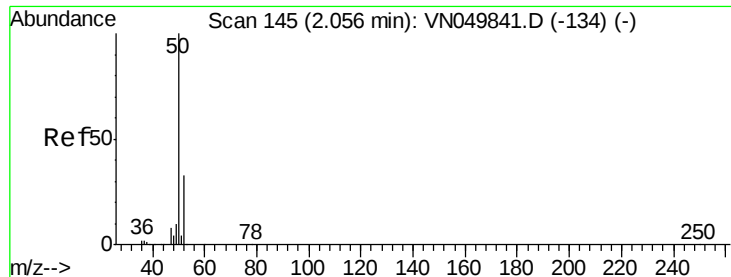
2000

1000

0

Time-->





#3

Chloromethane

Concen: 1.17 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 50 Resp: 8835

Ion Ratio Lower Upper

50 100

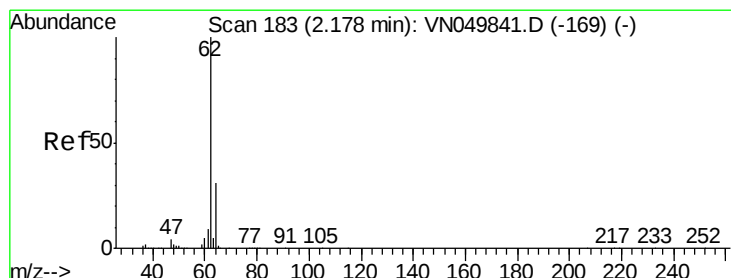
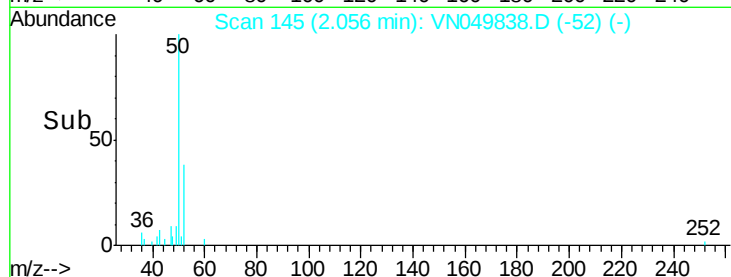
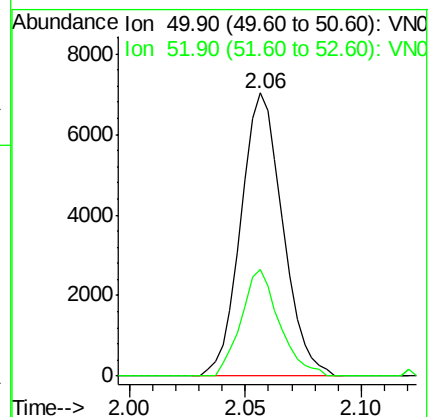
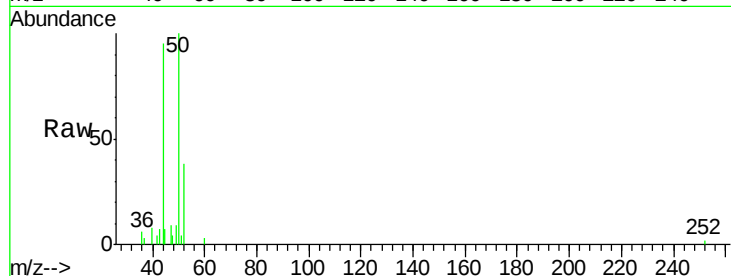
52 37.6 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

7/18/2018 11:59:07 AM



#4

Vinyl Chloride

Concen: 1.16 ug/l

RT: 2.18 min Scan# 183

Delta R.T. 0.00 min

Lab File: VN049838.D

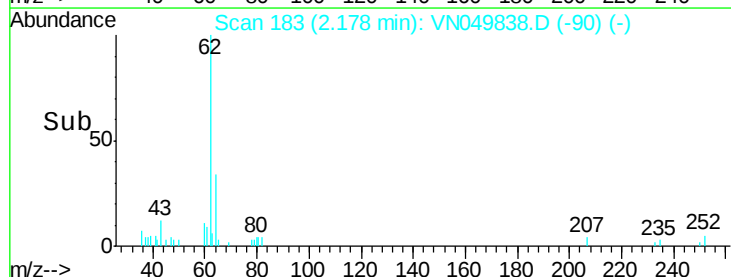
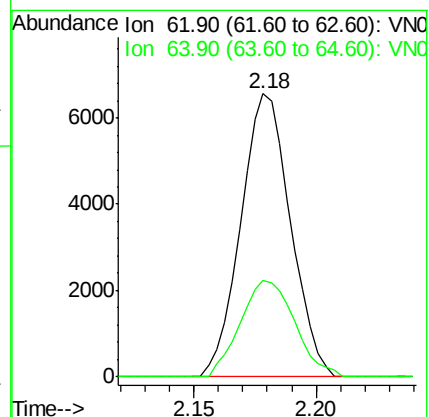
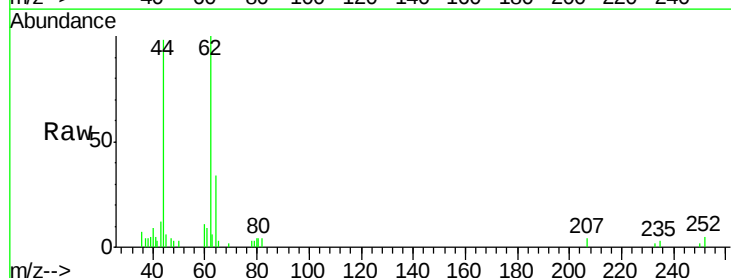
Acq: 17 Jul 2018 10:37

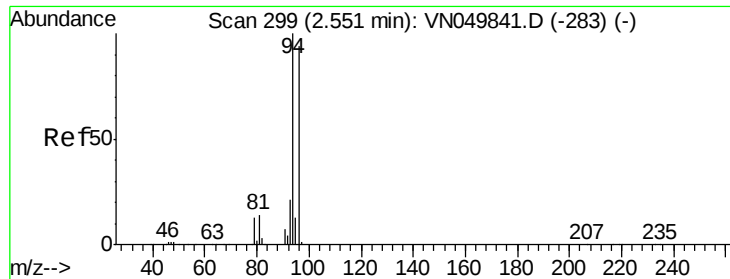
Tgt Ion: 62 Resp: 9235

Ion Ratio Lower Upper

62 100

64 34.0 25.4 38.0





#5

Bromomethane

Concen: 1.23 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 94 Resp: 7040

Ion Ratio Lower Upper

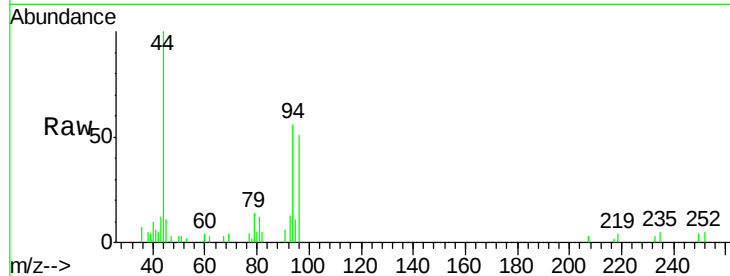
94 100

96 90.7 75.7 113.5

Manual Integrations
APPROVED

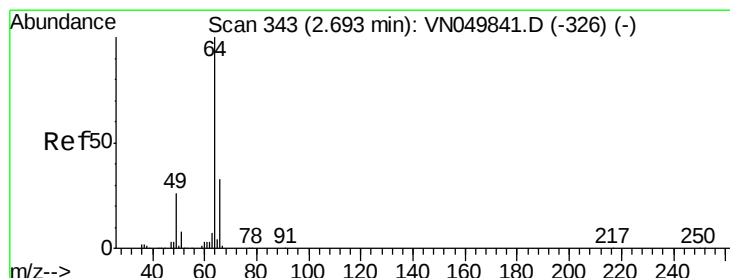
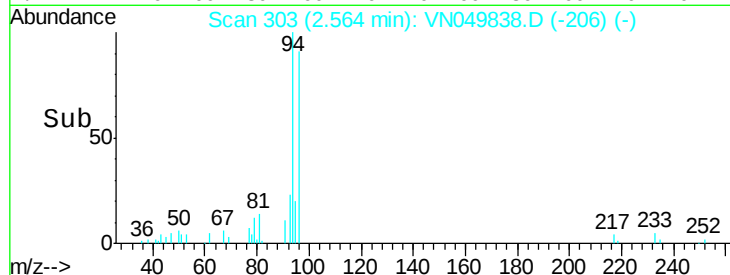
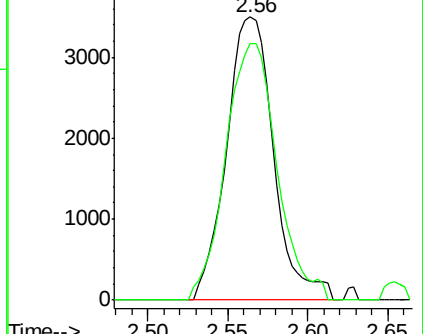
MMDadoda

7/18/2018 11:59:07 AM



Abundance Ion 93.90 (93.60 to 94.60): VN049838.D (-206) (-)

Ion 95.90 (95.60 to 96.60): VN049838.D (-206) (-)



#6

Chloroethane

Concen: 1.22 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VN049838.D

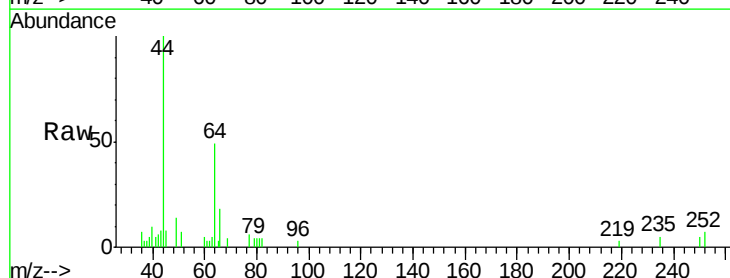
Acq: 17 Jul 2018 10:37

Tgt Ion: 64 Resp: 5954

Ion Ratio Lower Upper

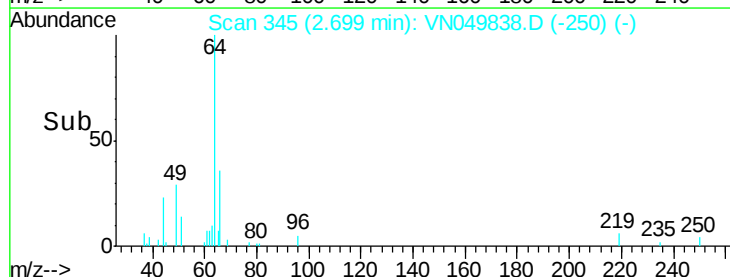
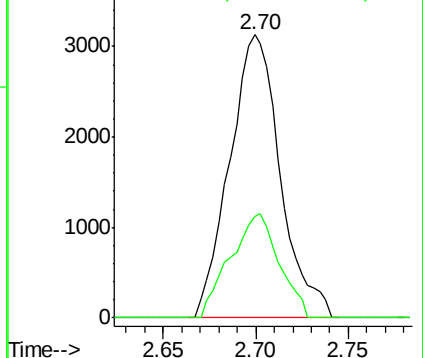
64 100

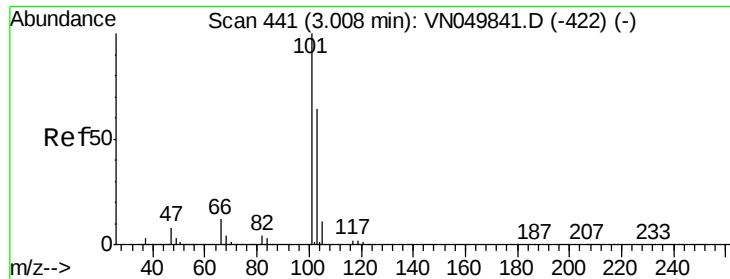
66 36.1 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN049838.D (-250) (-)

Ion 65.90 (65.60 to 66.60): VN049838.D (-250) (-)





#7

Trichlorofluoromethane

Concen: 1.25 ug/l

RT: 3.01 min Scan# 441

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:101 Resp: 12912

Ion Ratio Lower Upper

101 100

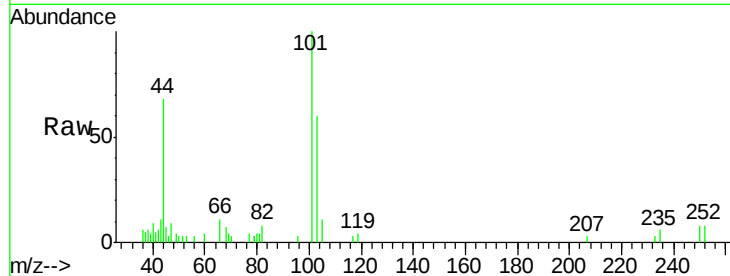
103 60.3 52.8 79.2

Manual Integrations

APPROVED

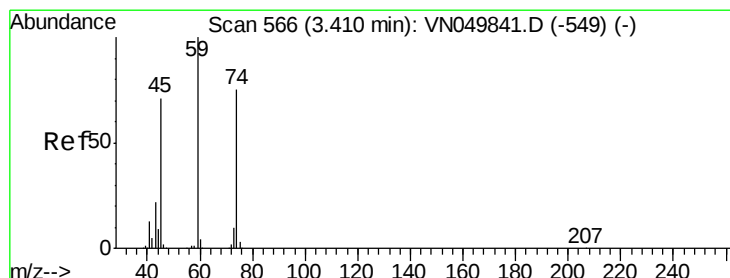
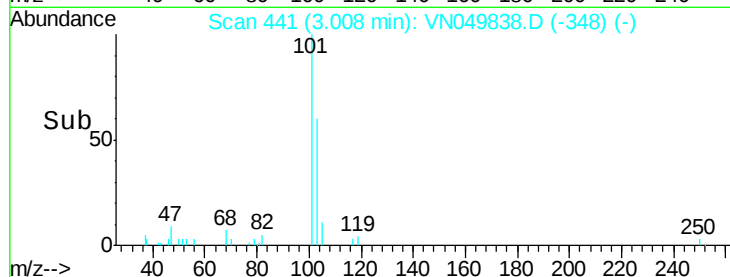
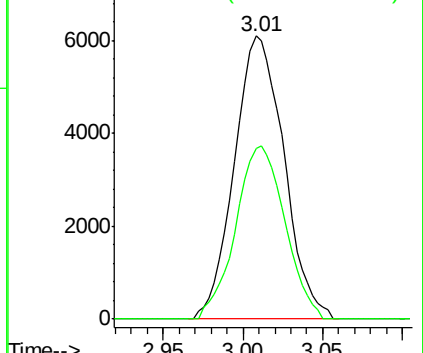
MMDadoda

7/18/2018 11:59:07 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 1.22 ug/l

RT: 3.41 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN049838.D

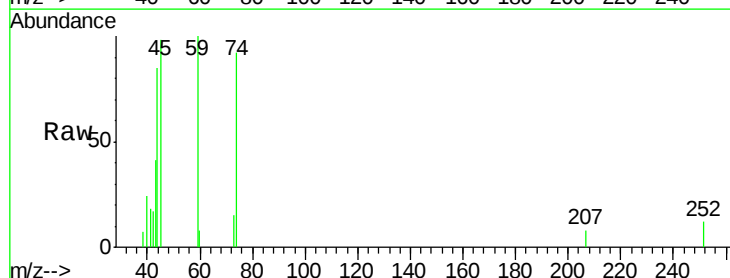
Acq: 17 Jul 2018 10:37

Tgt Ion: 74 Resp: 4637

Ion Ratio Lower Upper

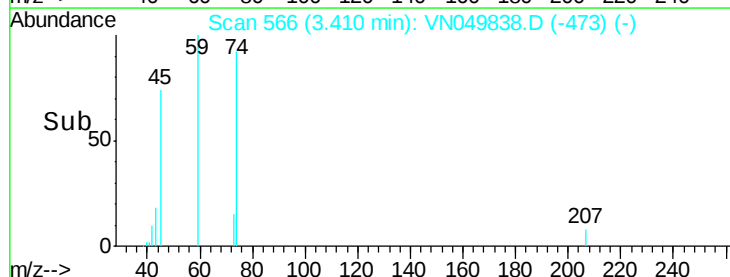
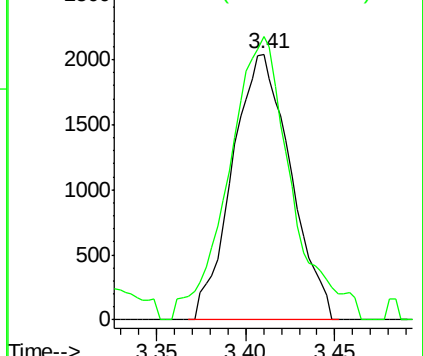
74 100

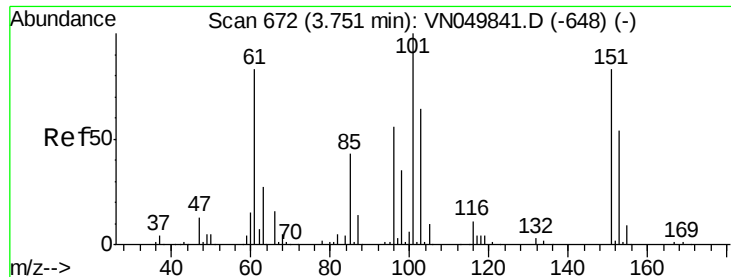
45 114.7 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.23 ug/l

RT: 3.74 min Scan# 670

Delta R.T. -0.01 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

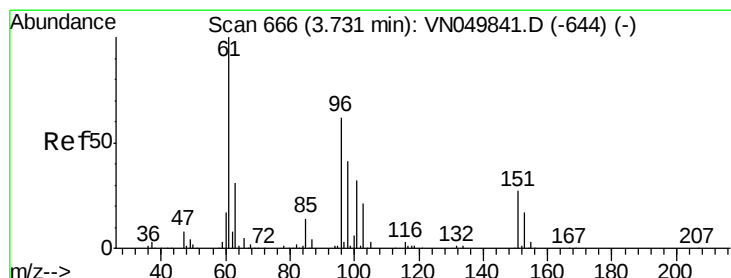
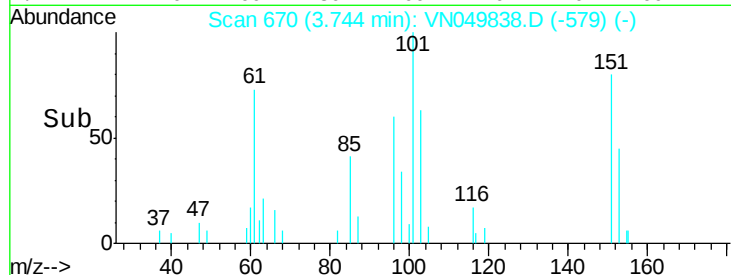
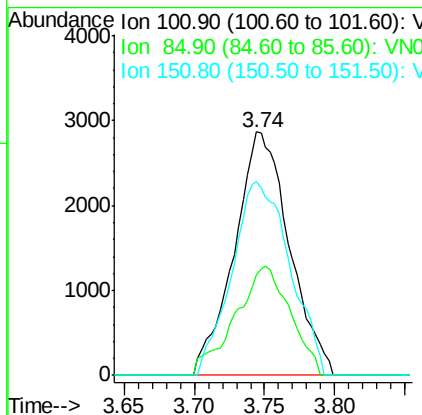
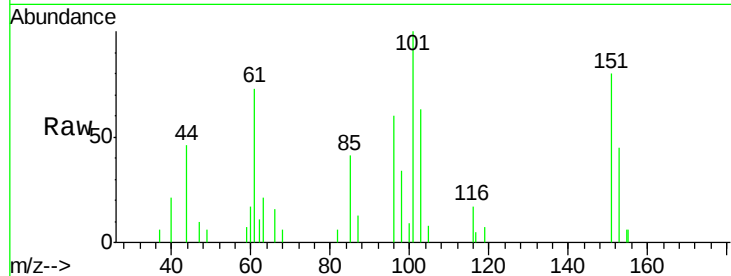
ClientSampled :

VSTDIC001

Tot Ion:	101	Resp:	7822
Ion Ratio	Lower	Upper	
101	100		
85	44.9	34.4	51.6
151	83.8	66.2	99.4

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



#12

1,1-Dichloroethene

Concen: 1.16 ug/l

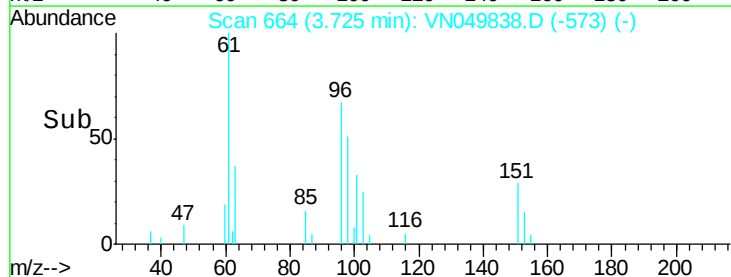
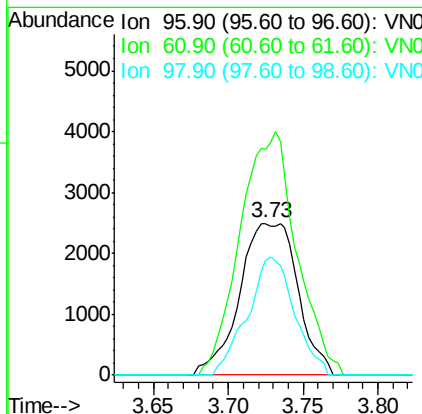
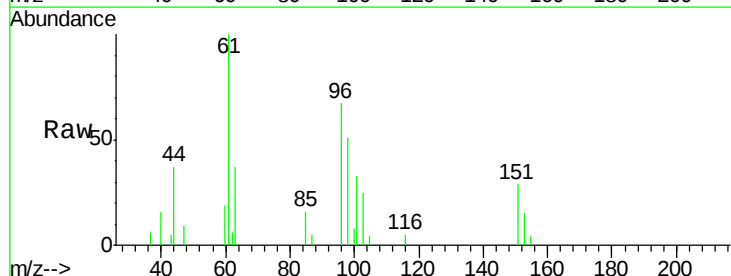
RT: 3.73 min Scan# 664

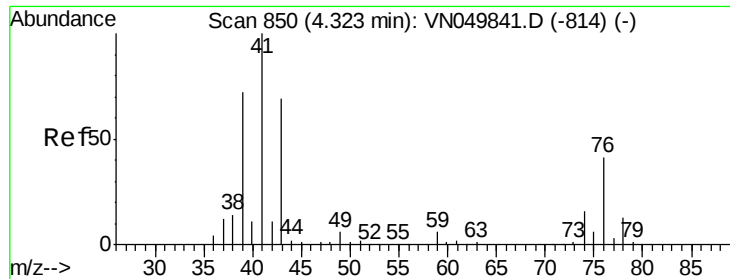
Delta R.T. -0.01 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion:	96	Resp:	6763
Ion Ratio	Lower	Upper	
96	100		
61	148.7	126.5	189.7
98	75.4	51.0	76.6





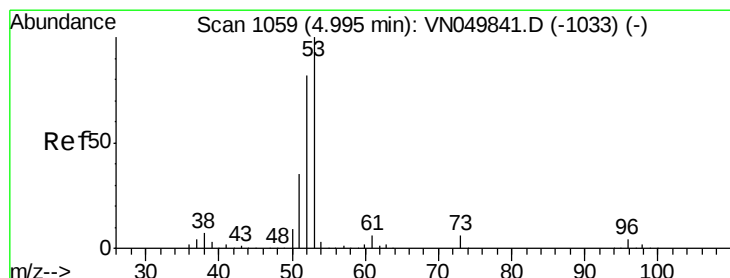
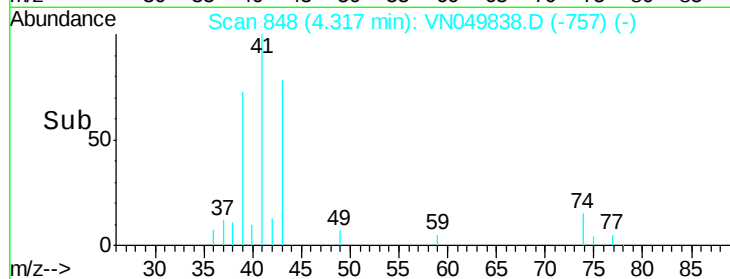
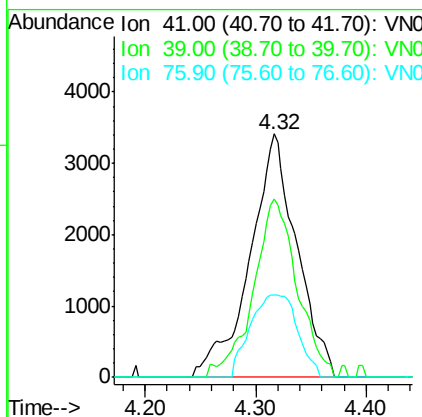
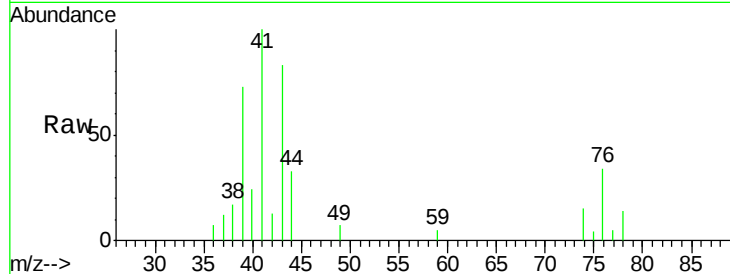
#14
Allvl chloride
Concen: 1.04 ug/l
RT: 4.32 min Scan# 848
Delta R.T. -0.01 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
39	68.4	53.2	79.8
76	34.2	29.0	43.6

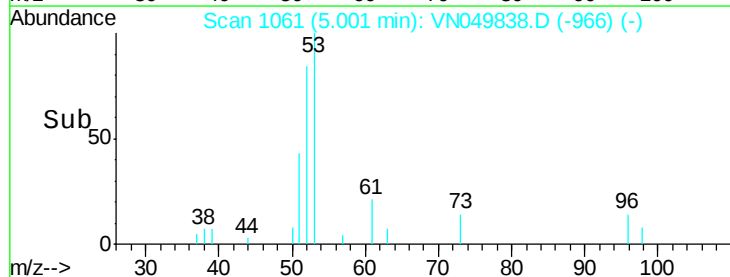
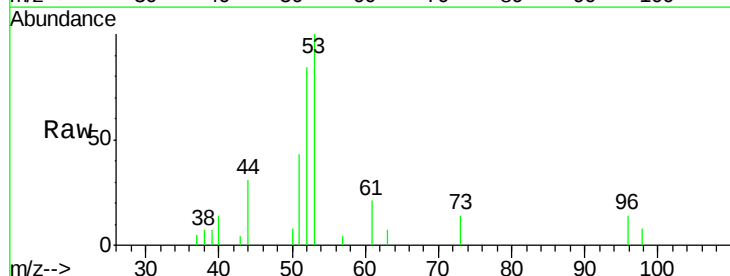
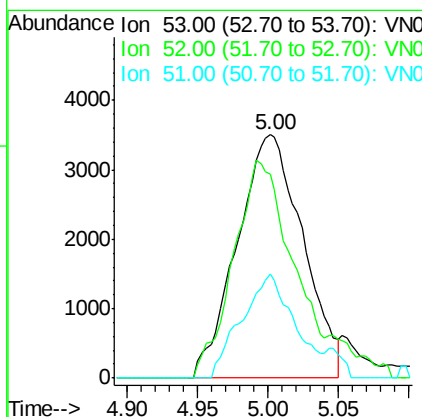
Manual Integrations
APPROVED

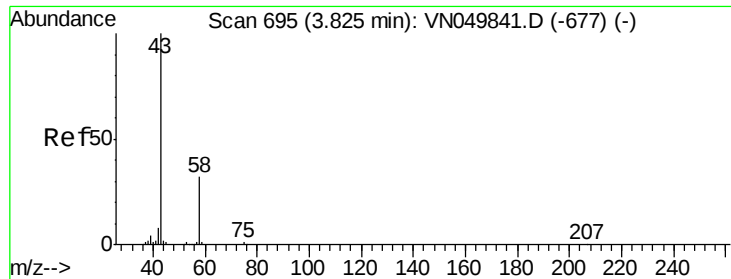
MMDadoda
7/18/2018 11:59:07 AM



#15
Acrylonitrile
Concen: 4.20 ug/l
RT: 5.00 min Scan# 1061
Delta R.T. 0.01 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion	Ratio	Lower	Upper
53	100		
52	79.9	64.8	97.2
51	34.0	28.9	43.3





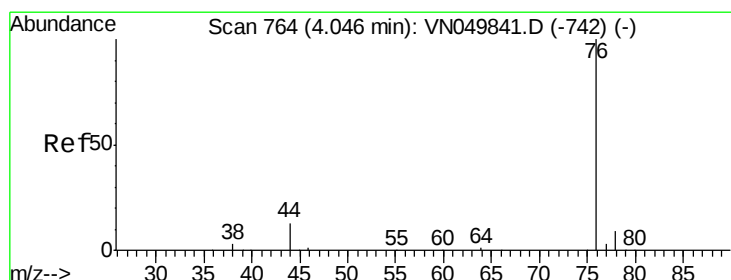
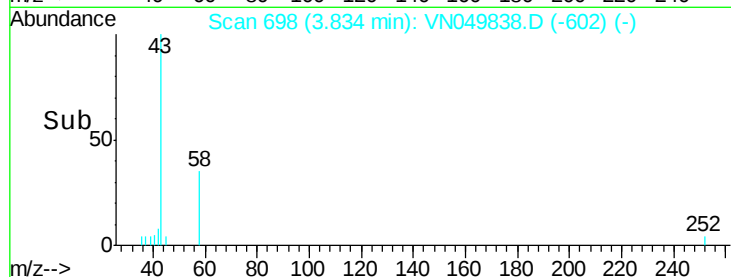
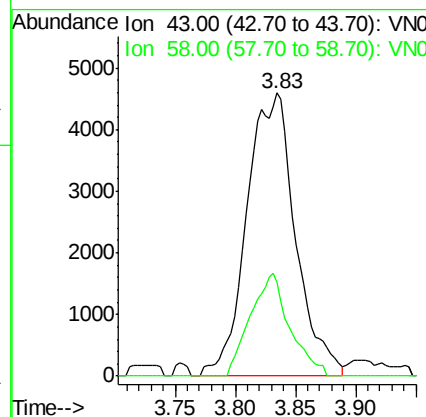
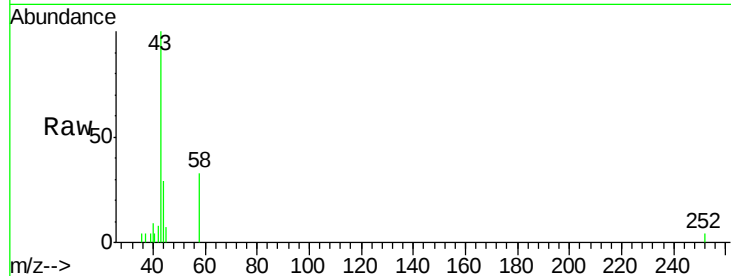
#16
Acetone
Concen: 5.85 ug/l m
RT: 3.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 43 Resp: 13009
Ion Ratio Lower Upper
43 100
58 33.3 25.9 38.9

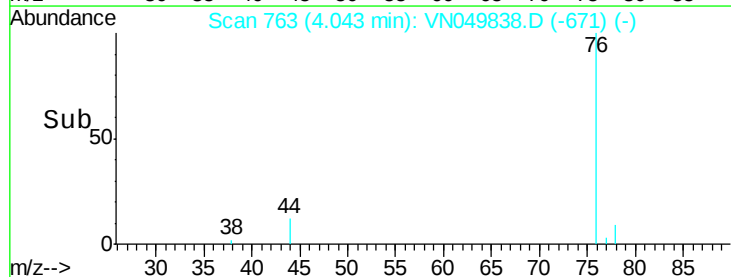
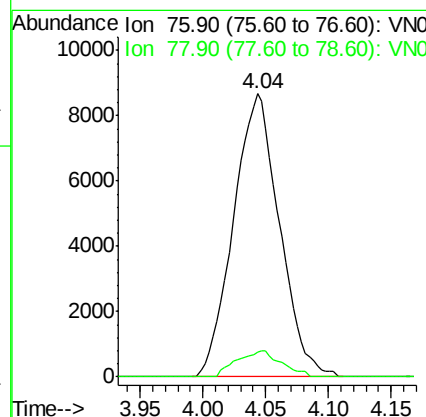
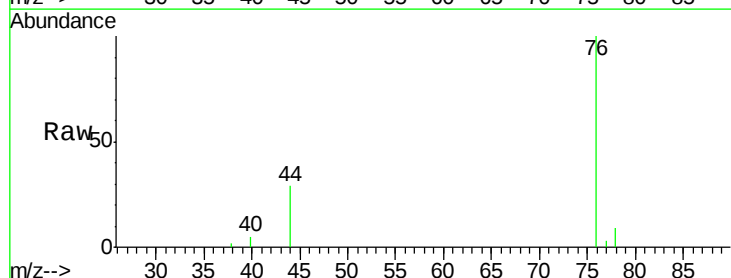
Manual Integrations
APPROVED

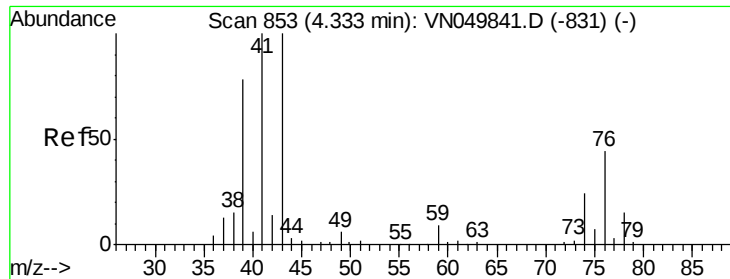
MMDadoda
7/18/2018 11:59:07 AM



#17
Carbon Disulfide
Concen: 1.11 ug/l
RT: 4.04 min Scan# 763
Delta R.T. -0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion: 76 Resp: 22101
Ion Ratio Lower Upper
76 100
78 8.8 7.1 10.7





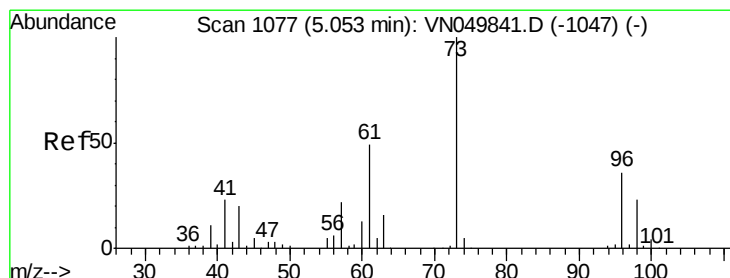
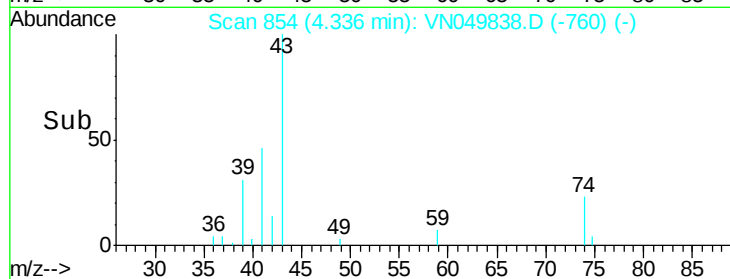
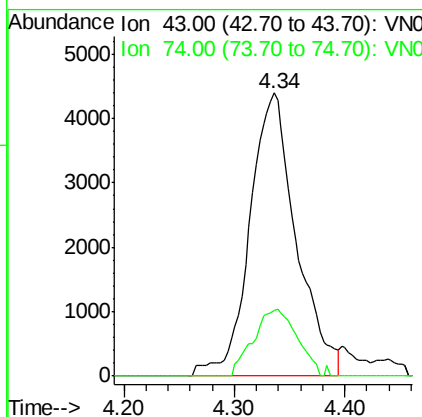
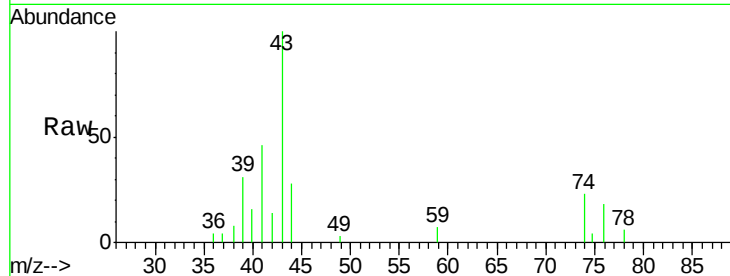
#18
Methyl Acetate
Concen: 1.59 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 43 Resp: 12848
Ion Ratio Lower Upper
43 100
74 22.3 19.8 29.8

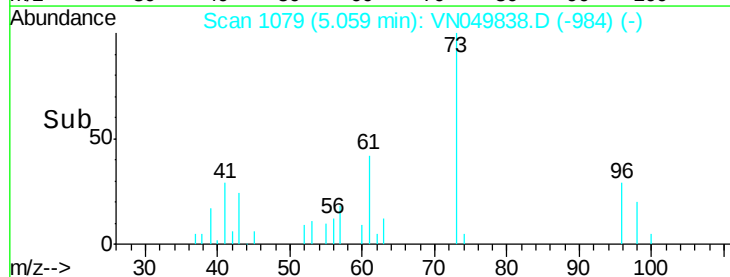
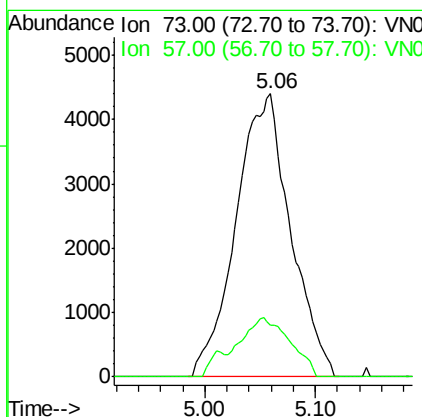
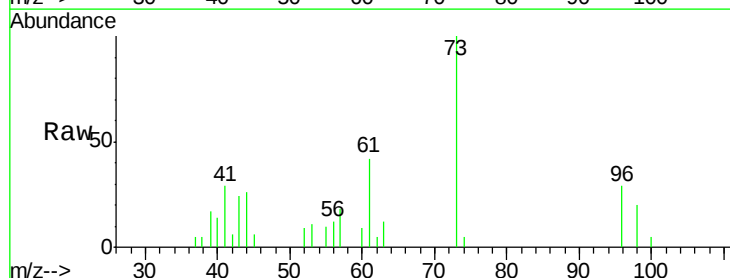
Manual Integrations
APPROVED

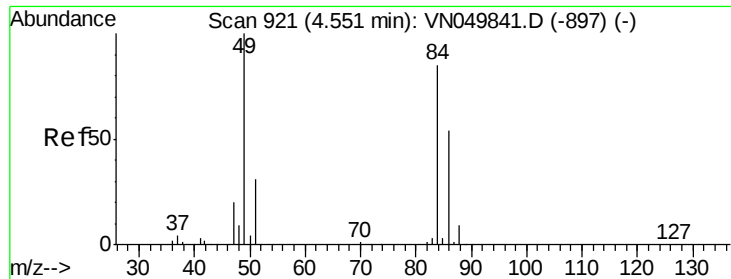
MMDadoda
7/18/2018 11:59:07 AM



#19
Methyl tert-butyl Ether
Concen: 0.89 ug/l
RT: 5.06 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion: 73 Resp: 15085
Ion Ratio Lower Upper
73 100
57 18.4 18.1 27.1





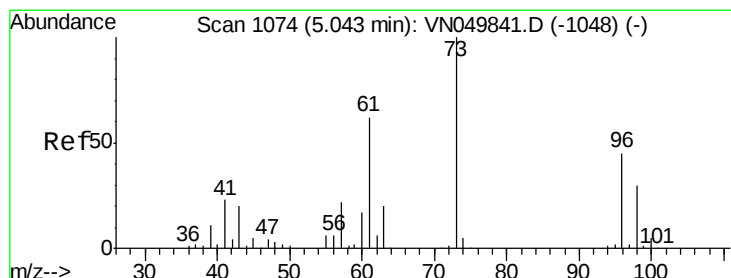
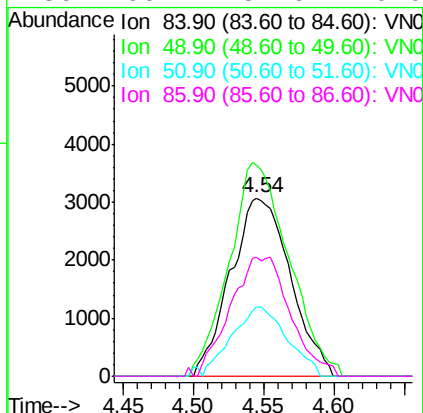
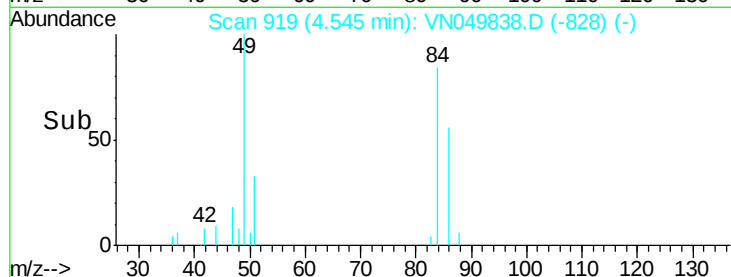
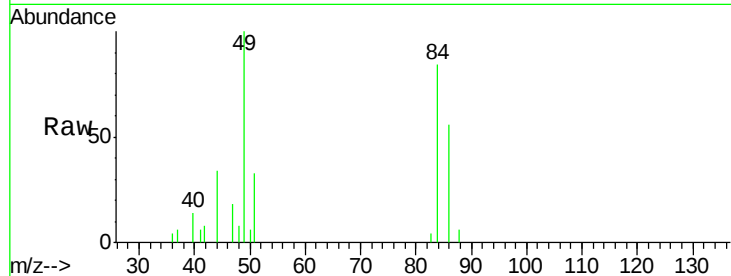
#20
Methvlene Chloride
Concen: 1.27 ug/l
RT: 4.54 min Scan# 919
Delta R.T. -0.01 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion:	84	Resp:	9080
Ion	Ratio	Lower	Upper
84	100		
49	118.7	95.4	143.2
51	39.0	28.4	42.6
86	66.7	52.6	79.0

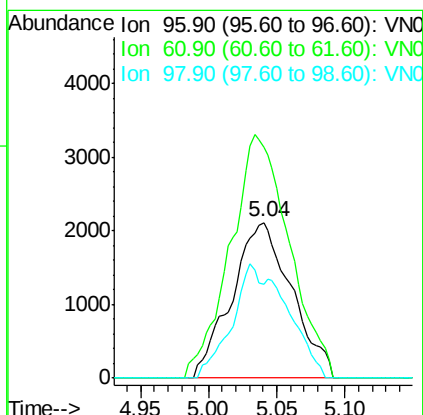
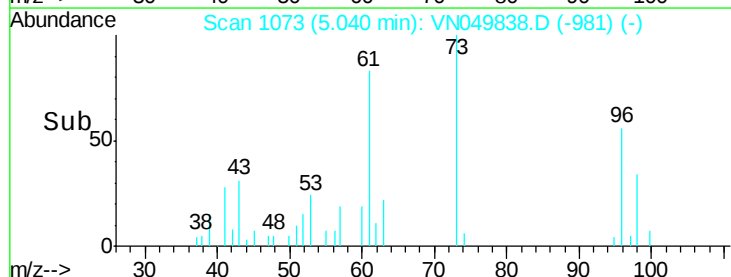
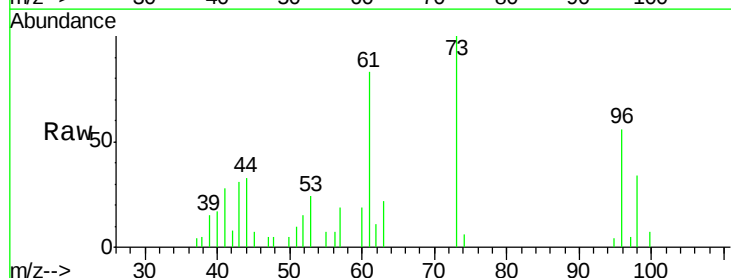
Manual Integrations
APPROVED

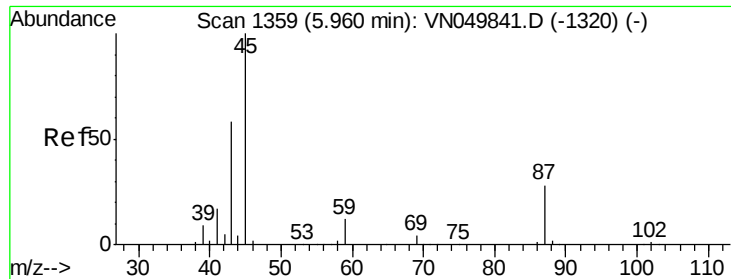
MMDadoda
7/18/2018 11:59:07 AM



#21
trans-1,2-Dichloroethene
Concen: 1.00 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion:	96	Resp:	6461
Ion	Ratio	Lower	Upper
96	100		
61	148.3	109.0	163.6
98	60.5	51.1	76.7





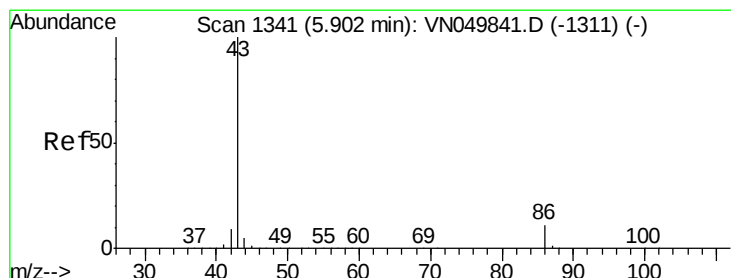
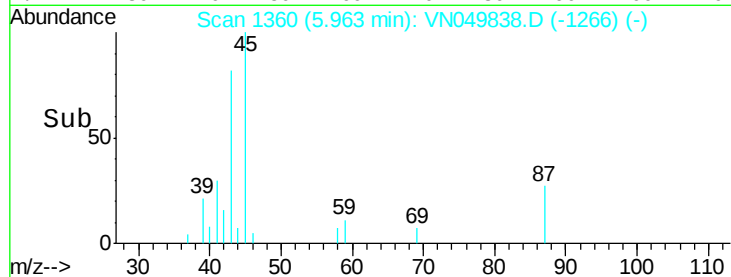
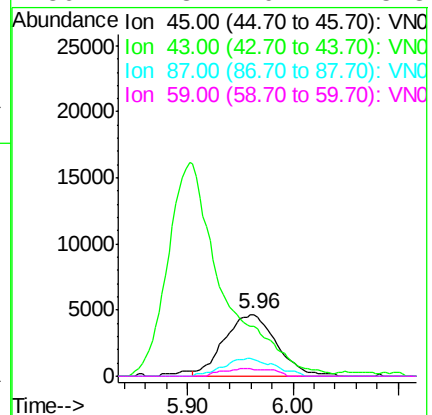
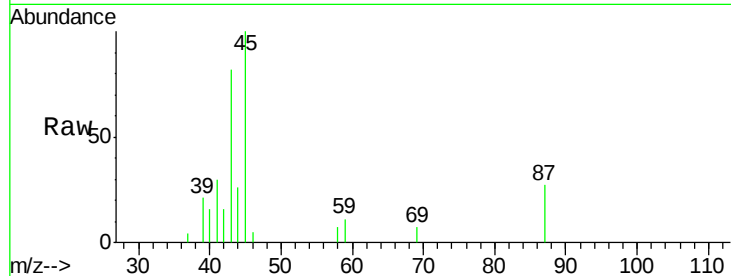
#22
Diisopropyl ether
Concen: 0.87 ug/l
RT: 5.96 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ion	Ratio	Lower	Upper
45	100			
43	75.4	48.1	72.1	
87	27.3	22.6	34.0	
59	11.3	9.2	13.8	

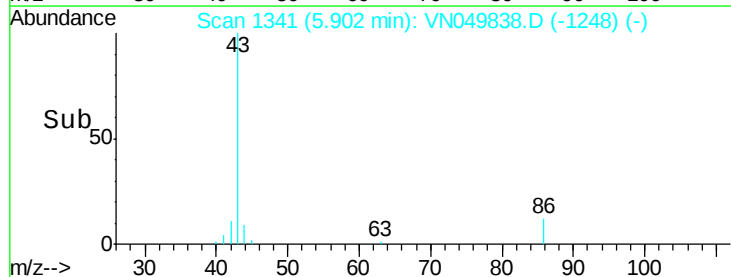
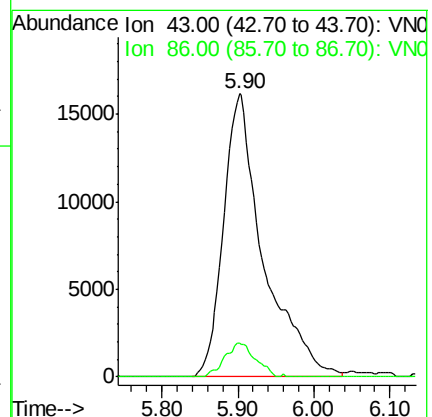
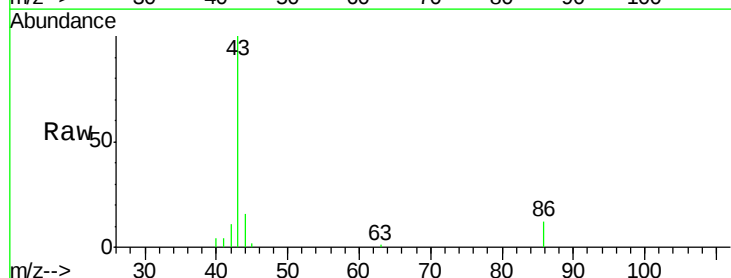
Manual Integrations
APPROVED

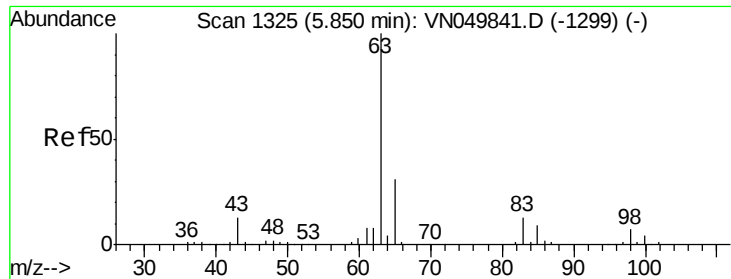
MMDadoda
7/18/2018 11:59:07 AM



#23
Vinyl Acetate
Concen: 4.14 ug/l
RT: 5.90 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
86	11.8	8.4	12.6	





#24

1,1-Dichloroethane

Concen: 1.12 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

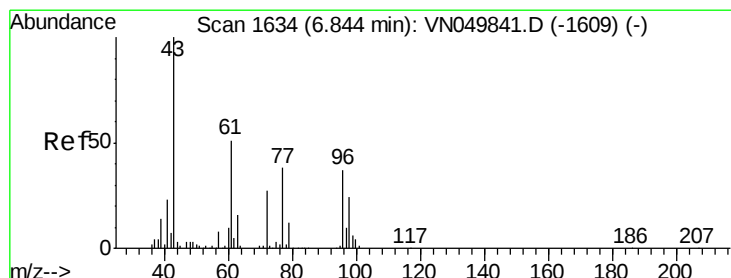
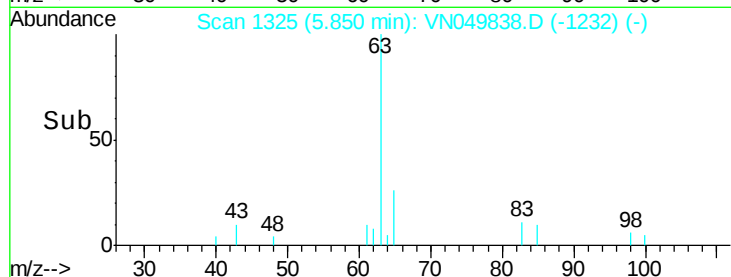
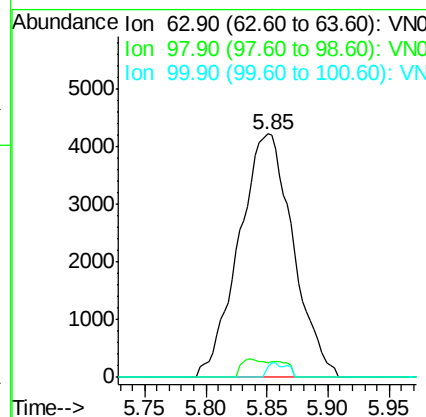
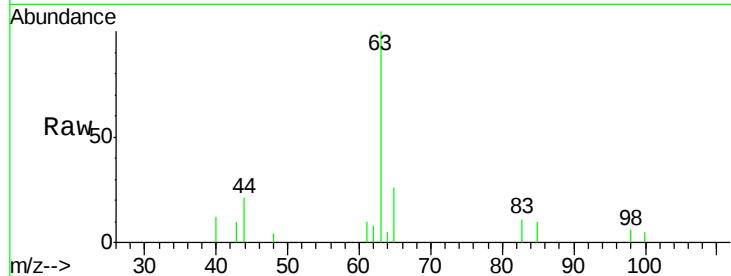
ClientSampled :

VSTDIC001

Tot Ion:	63	Resp:	13002
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.4	10.2
100	4.6	2.2	6.6

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



#25

2-Butanone

Concen: 4.43 ug/l

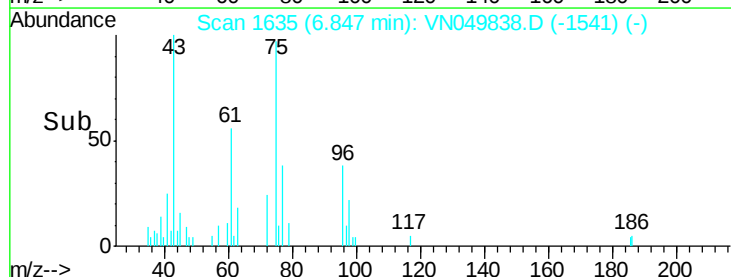
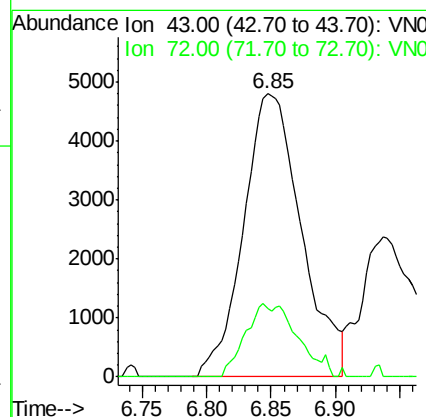
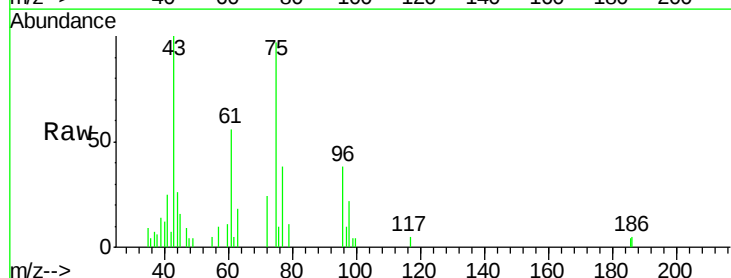
RT: 6.85 min Scan# 1635

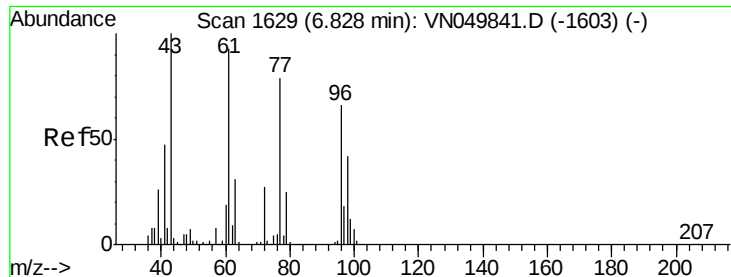
Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion:	43	Resp:	15012
Ion	Ratio	Lower	Upper
43	100		
72	24.2	22.1	33.1





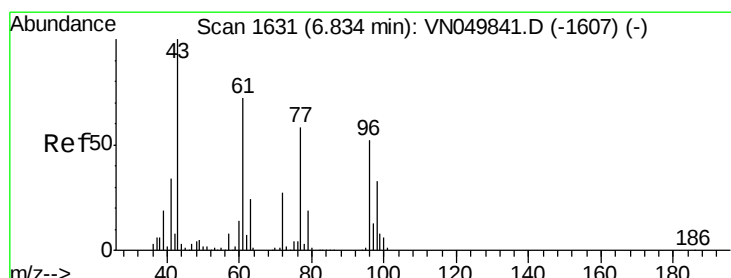
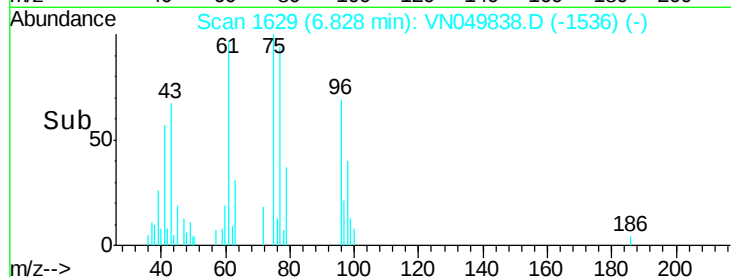
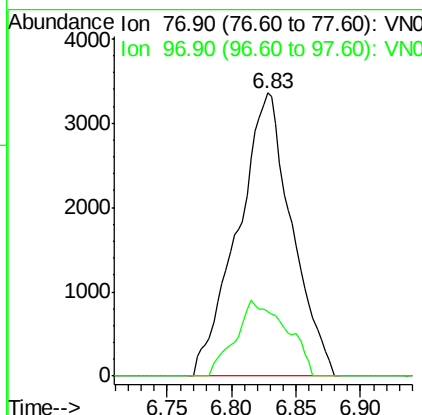
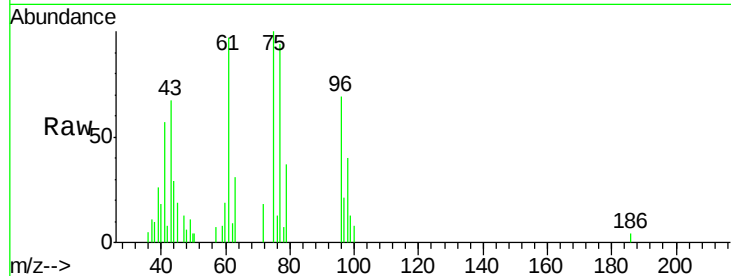
#26
2,2-Dichloropropane
Concen: 1.05 ug/l
RT: 6.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 77 Resp: 9804
Ion Ratio Lower Upper
77 100
97 25.1 11.9 35.5

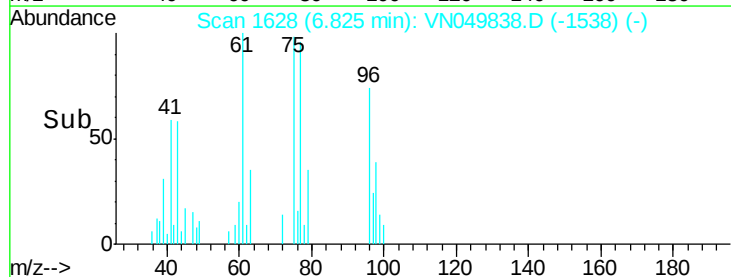
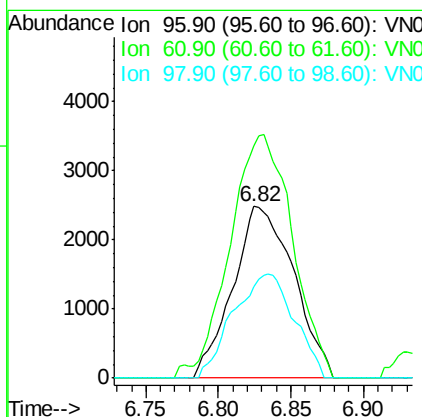
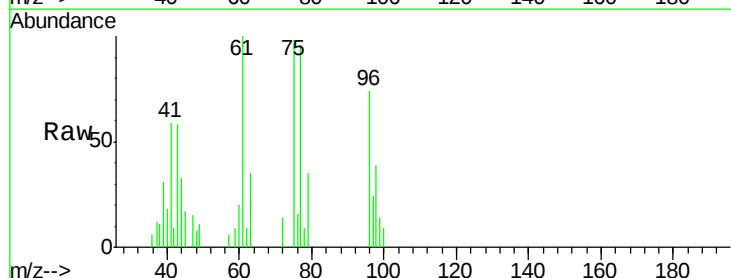
Manual Integrations
APPROVED

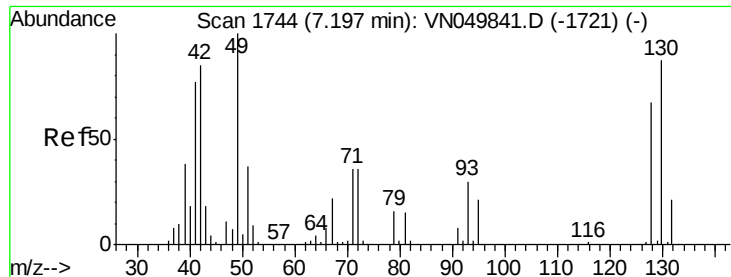
MMDadoda
7/18/2018 11:59:07 AM



#27
cis-1,2-Dichloroethene
Concen: 1.04 ug/l
RT: 6.82 min Scan# 1628
Delta R.T. -0.01 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion: 96 Resp: 7266
Ion Ratio Lower Upper
96 100
61 145.4 0.0 289.0
98 60.2 0.0 130.2





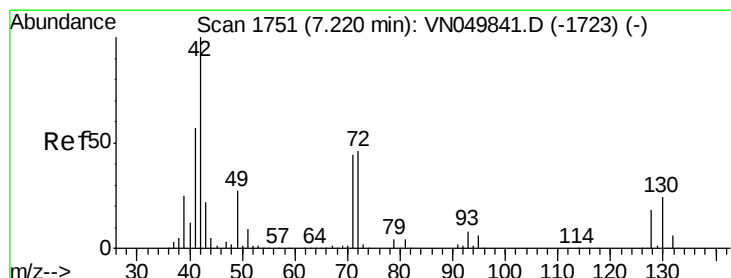
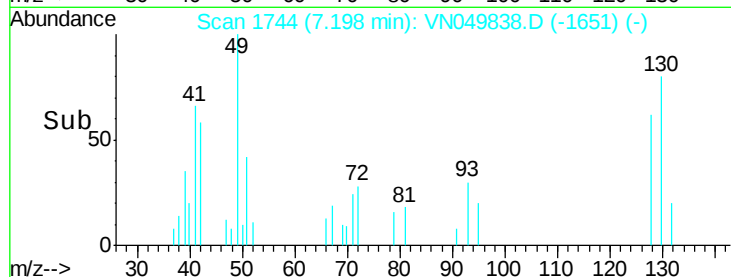
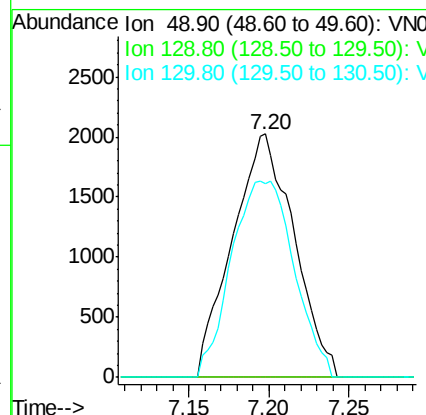
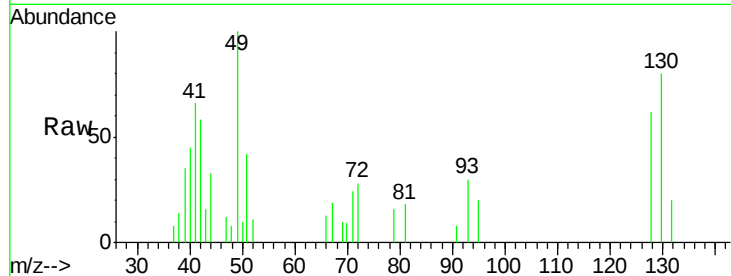
#28
Bromochloromethane
Concen: 1.02 ug/l
RT: 7.20 min Scan# 1744
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	82.2	65.5	98.3

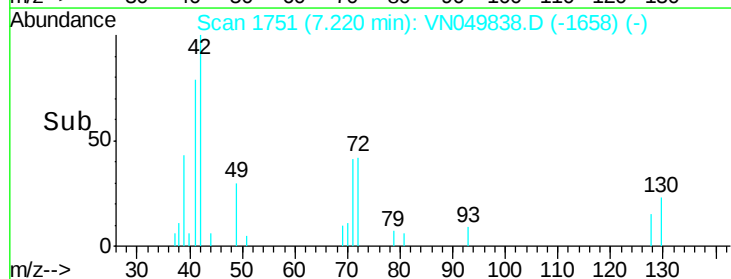
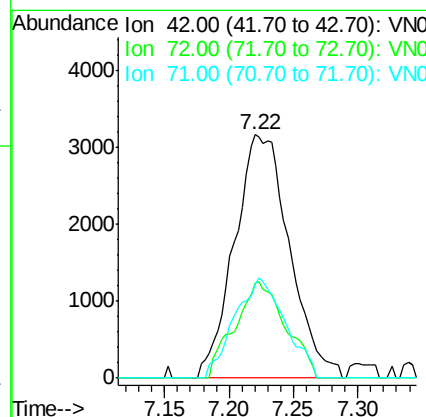
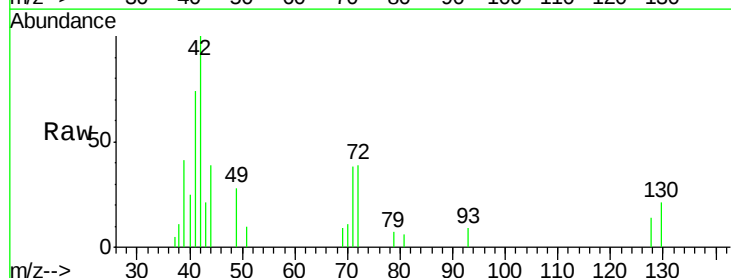
Manual Integrations
APPROVED

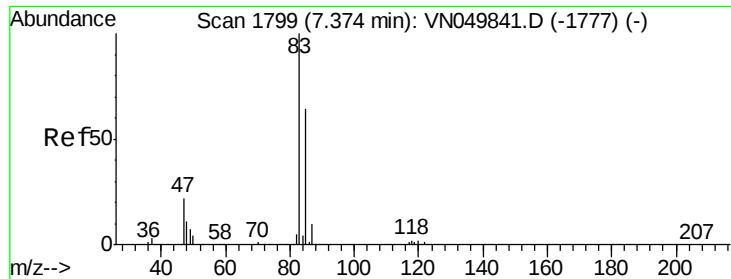
MMDadoda
7/18/2018 11:59:07 AM



#29
Tetrahydrofuran
Concen: 4.29 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion	Ratio	Lower	Upper
42	100		
72	36.5	35.6	53.4
71	37.8	34.0	51.0





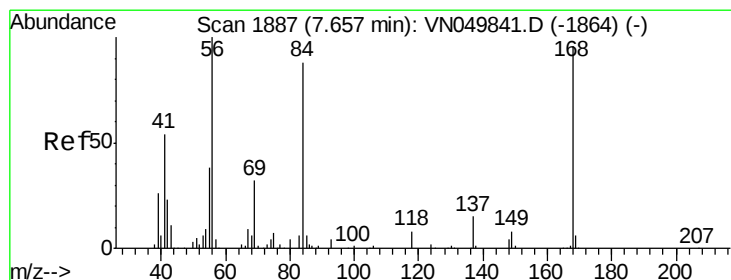
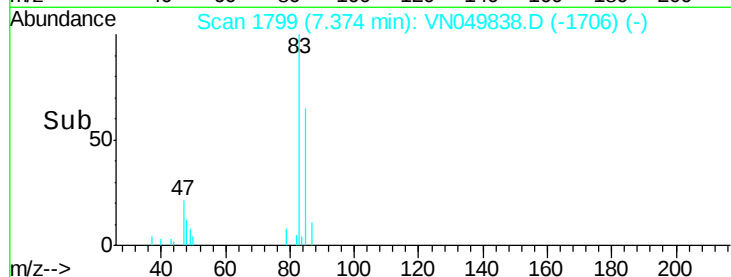
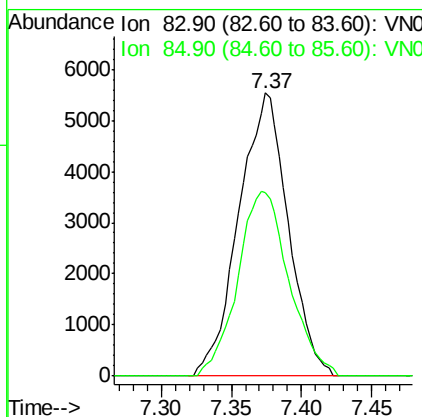
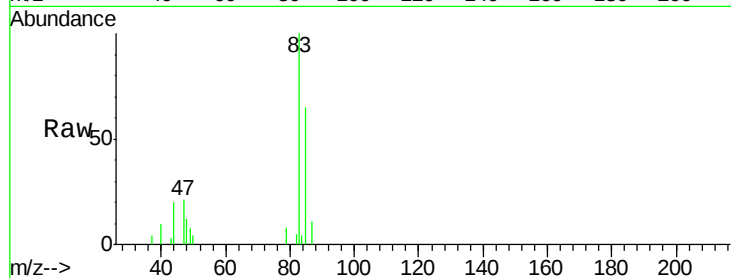
#30
Chloroform
Concen: 1.14 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	13537
Ion Ratio	100	Lower	Upper
85	65.1	51.4	77.2

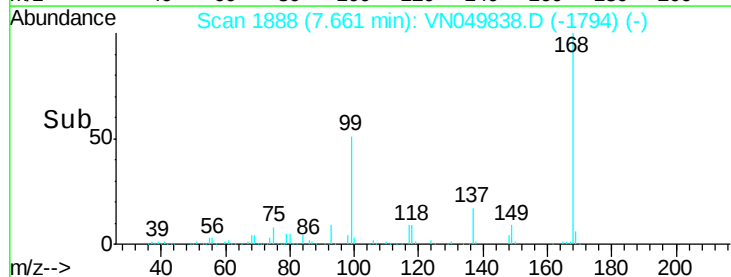
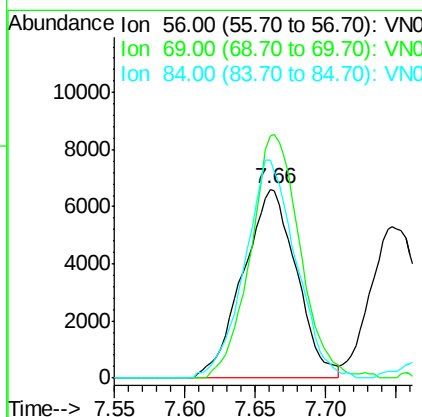
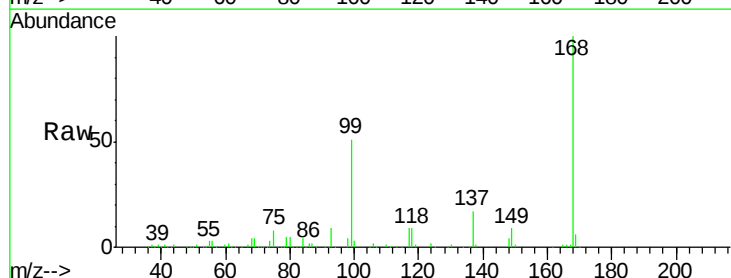
Manual Integrations
APPROVED

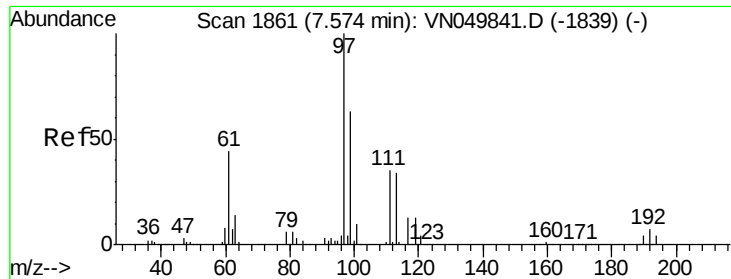
MMDadoda
7/18/2018 11:59:07 AM



#31
Cyclohexane
Concen: 1.53 ug/l
RT: 7.66 min Scan# 1888
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion	56	Resp	17536
Ion Ratio	100	Lower	Upper
69	128.5	26.6	40.0#
84	115.3	69.0	103.6#





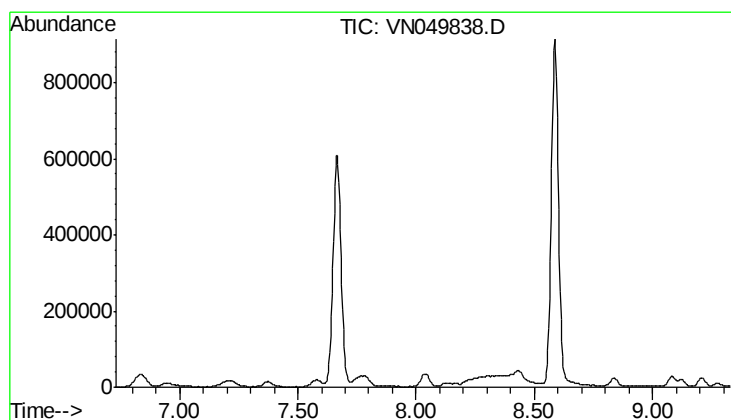
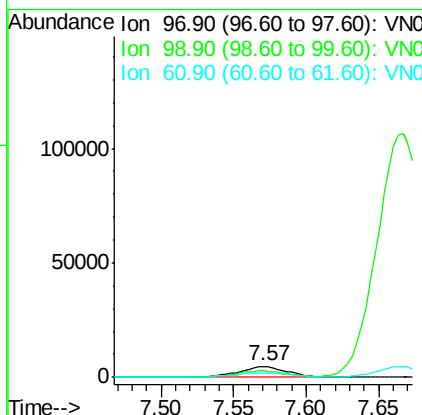
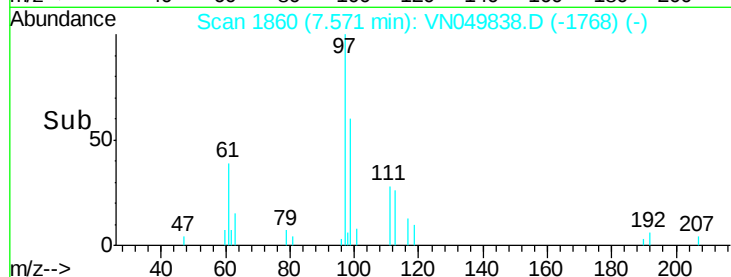
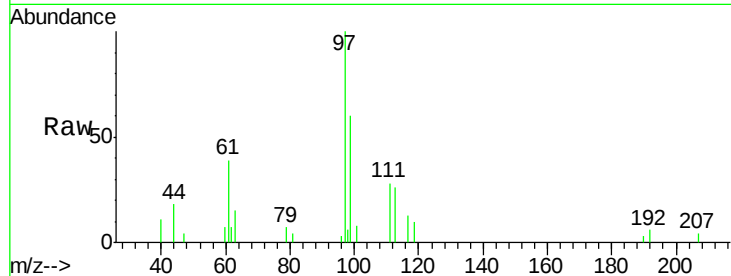
#32
 1,1,1-Trichloroethane
 Concen: 1.09 ug/l
 RT: 7.57 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		10990		
99	0.0	51.0	76.4#		
61	46.9	35.5	53.3		

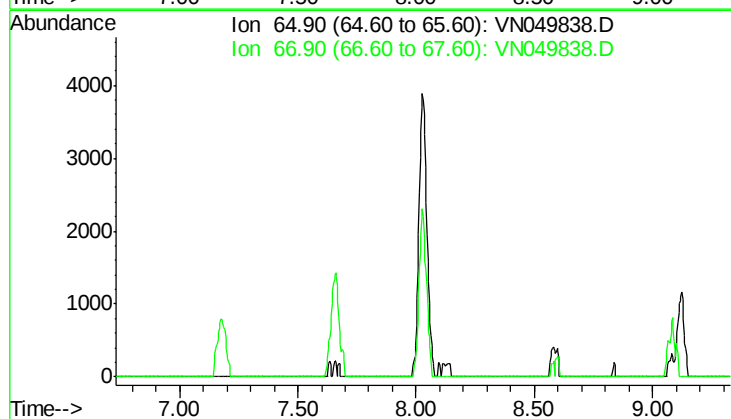
Manual Integrations
 APPROVED

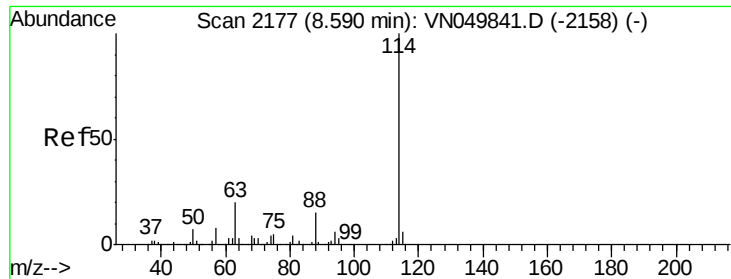
MMDadoda
 7/18/2018 11:59:07 AM



#33
 1,2-Dichloroethane-d4
 Concen: 0.00 ug/l
 Expected RT: 8.03 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Tgt Ion	Sig	Exp Ratio
65	100	
67	53.6	





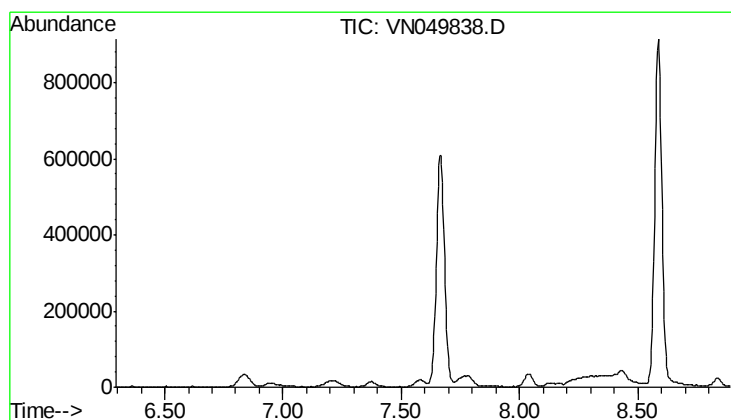
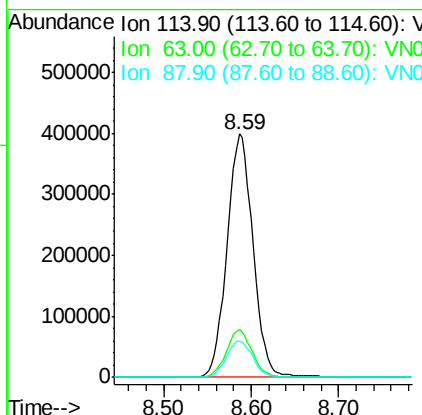
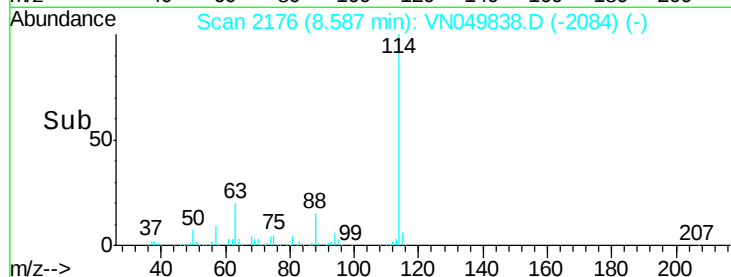
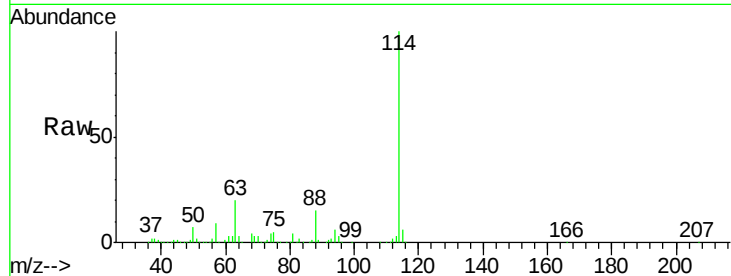
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ion	Ratio	Resp	Lower	Upper
114	100		825444		
63	19.5	0.0		39.8	
88	15.1	0.0		30.6	

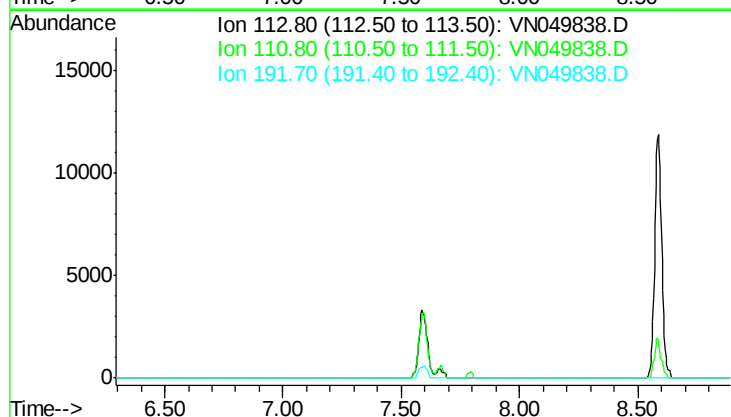
Manual Integrations
 APPROVED

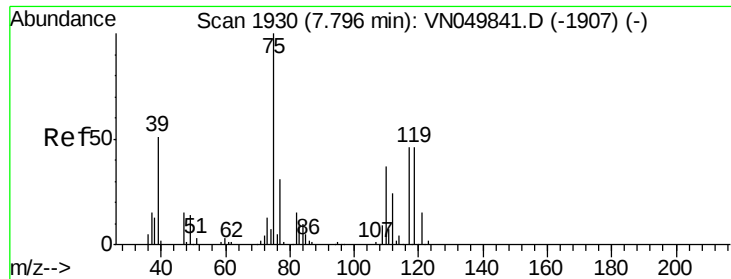
MMDadoda
 7/18/2018 11:59:07 AM



#35
 Dibromofluoromethane
 Concen: 0.00 ug/l
 Expected RT: 7.59 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Tgt Ion	Sig	Exp Ratio
113	100	
111	102.3	
192	22.2	





#36

1,1-Dichloropropene

Concen: 1.02 ug/l

RT: 7.79 min Scan# 1929

Delta R.T. -0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

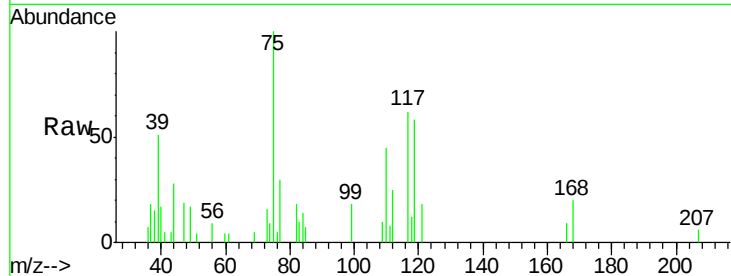
ClientSampleId :

VSTDIC001

Tot Ion:	75	Resp:	9772
Ion	Ratio	Lower	Upper
75	100		
110	37.5	18.1	54.4
77	28.1	24.9	37.3

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM

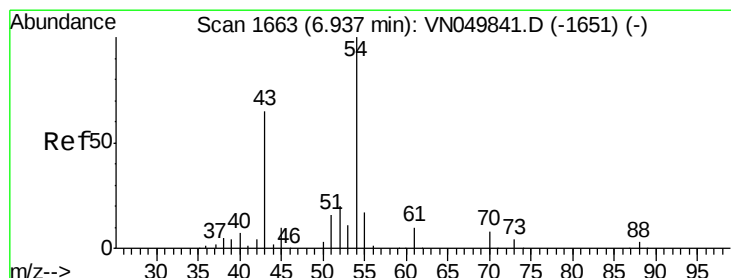
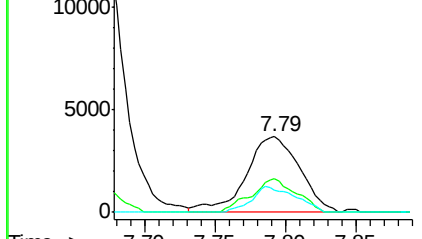
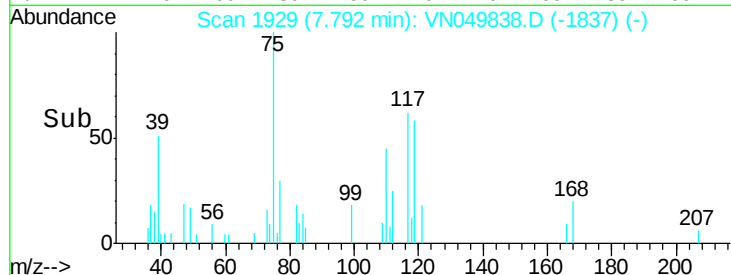


Abundance Ion 74.90 (74.60 to 75.60): VN049841.D (-1907) (-)

Ion 109.90 (109.60 to 110.60): VN049841.D (-1907) (-)

Ion 76.90 (76.60 to 77.60): VN049841.D (-1907) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.81 ug/l

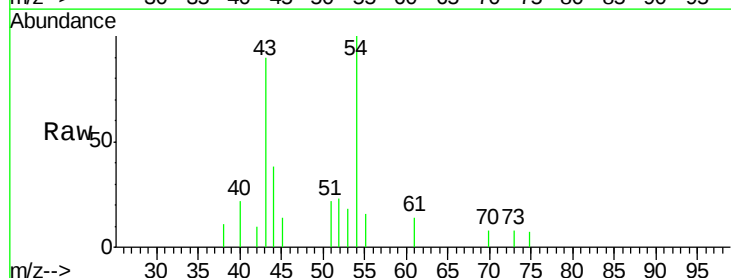
RT: 6.94 min Scan# 1663

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion:	43	Resp:	6093
Ion	Ratio	Lower	Upper
43	100		
61	12.1	11.7	17.5
70	3.4	8.4	12.6#

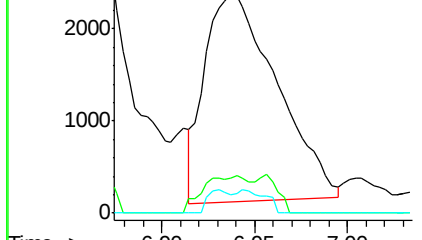
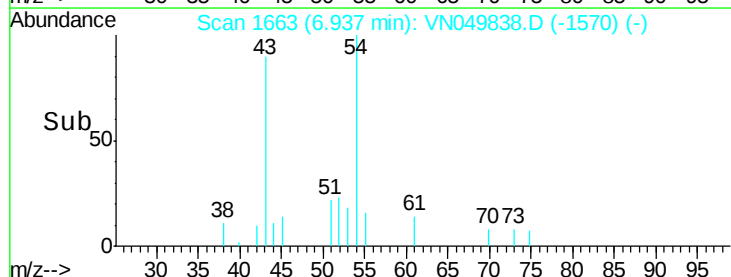


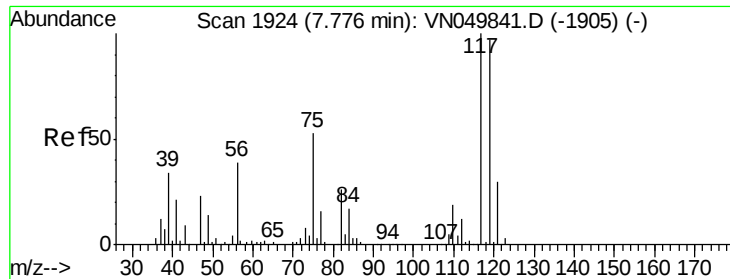
Abundance Ion 43.00 (42.70 to 43.70): VN049841.D (-1651) (-)

Ion 60.90 (60.60 to 61.60): VN049841.D (-1651) (-)

Ion 70.00 (69.70 to 70.70): VN049841.D (-1651) (-)

Time-->





#38

Carbon Tetrachloride

Concen: 1.08 ug/l

RT: 7.77 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampled :

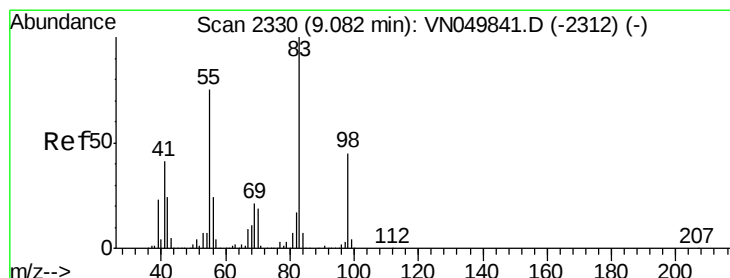
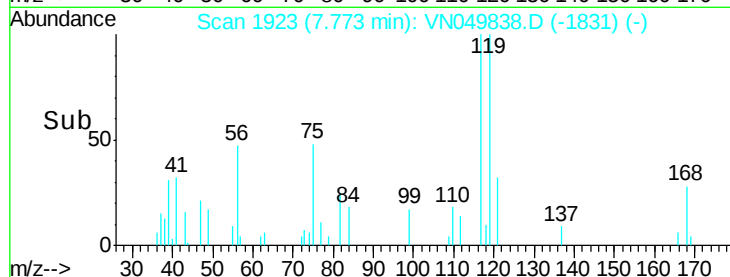
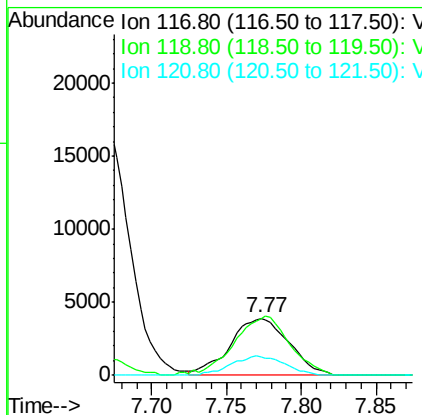
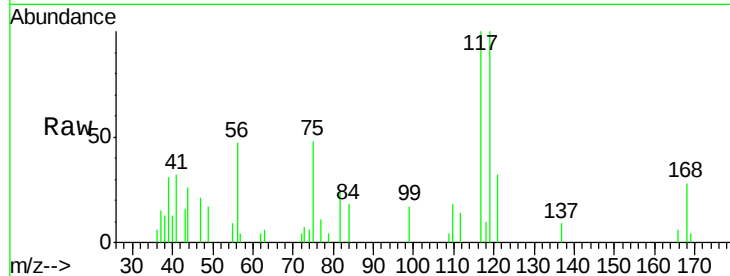
VSTDIC001

Tot Ion:117 Resp: 10642

Ion	Ratio	Lower	Upper
117	100		
119	100.3	77.2	115.8
121	31.8	25.0	37.6

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



#39

Methylcyclohexane

Concen: 0.95 ug/l

RT: 9.08 min Scan# 2329

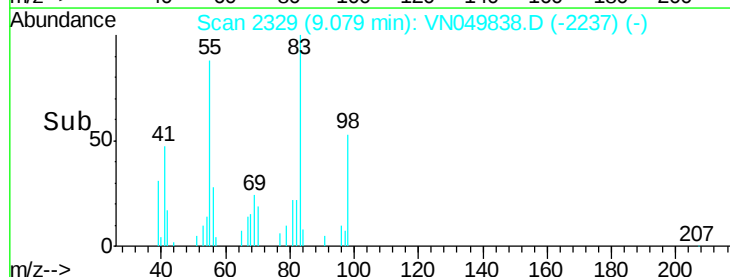
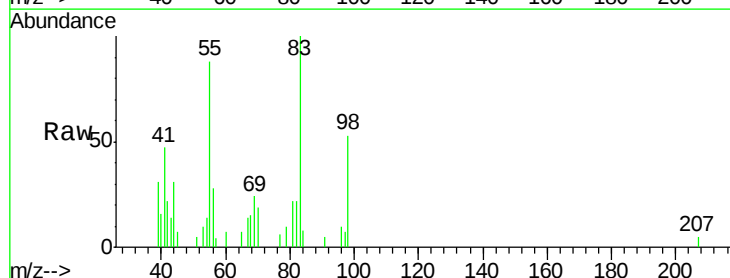
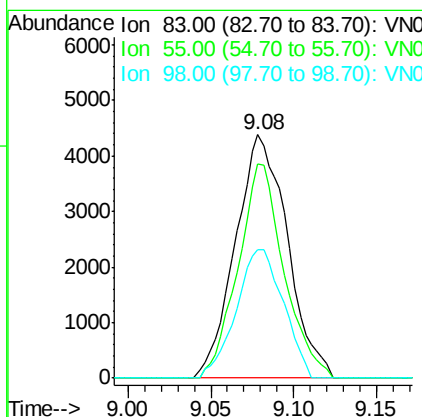
Delta R.T. -0.00 min

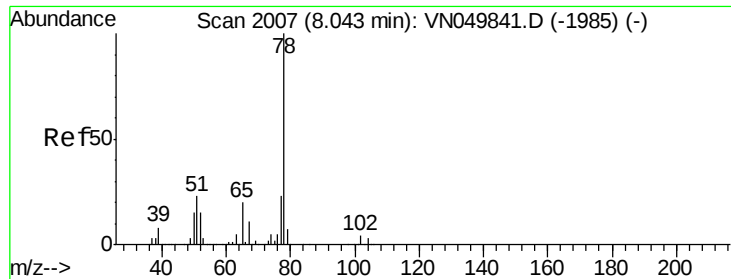
Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion: 83 Resp: 9547

Ion	Ratio	Lower	Upper
83	100		
55	87.8	59.7	89.5
98	52.6	36.5	54.7





#40

Benzene

Concen: 0.99 ug/l

RT: 8.04 min Scan# 2006

Delta R.T. -0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 78 Resp: 28580

Ion Ratio Lower Upper

78 100

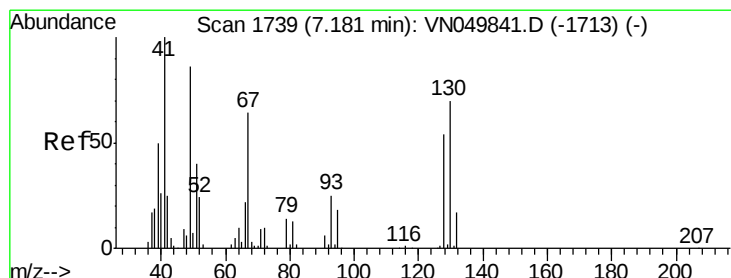
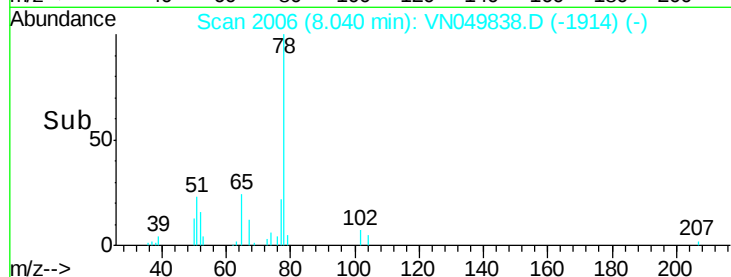
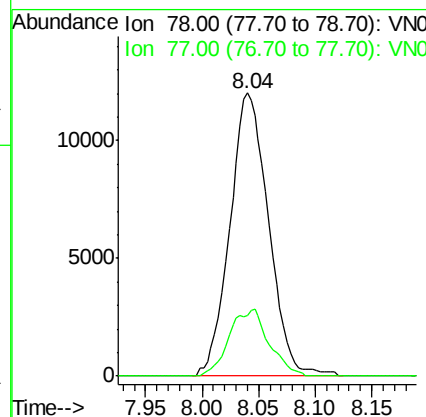
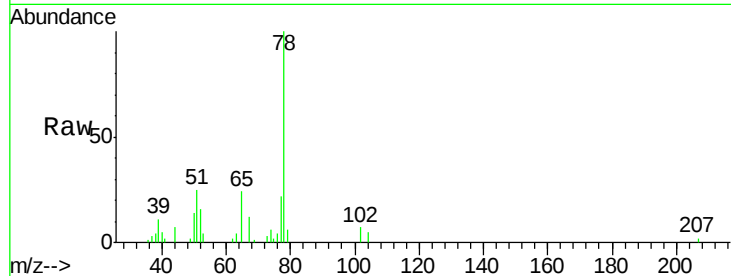
77 21.6 19.0 28.4

Manual Integrations

APPROVED

MMDadoda

7/18/2018 11:59:07 AM



#41

Methacrylonitrile

Concen: 0.85 ug/l m

RT: 7.18 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion: 41 Resp: 3065

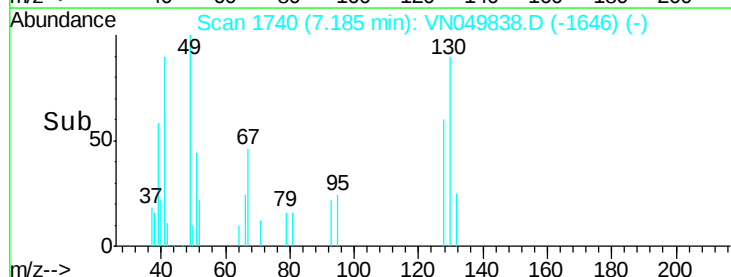
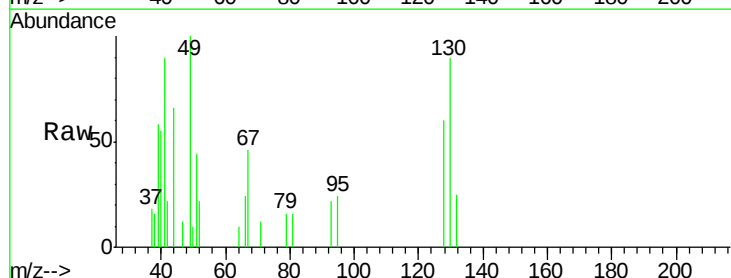
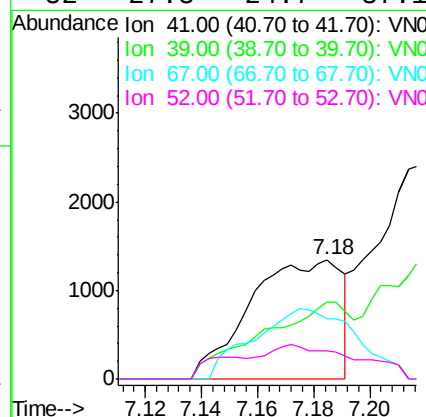
Ion Ratio Lower Upper

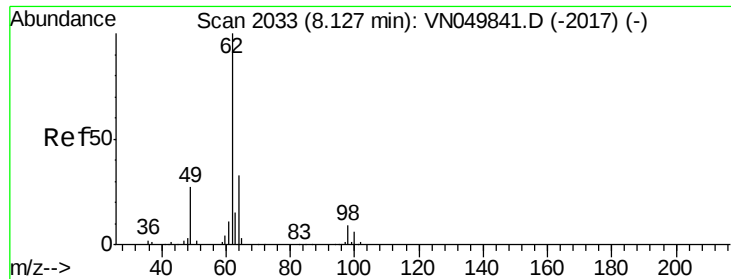
41 100

39 62.5 45.4 68.2

67 65.7 65.4 98.0

52 27.8 24.7 37.1





#42

1,2-Dichloroethane

Concen: 1.13 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

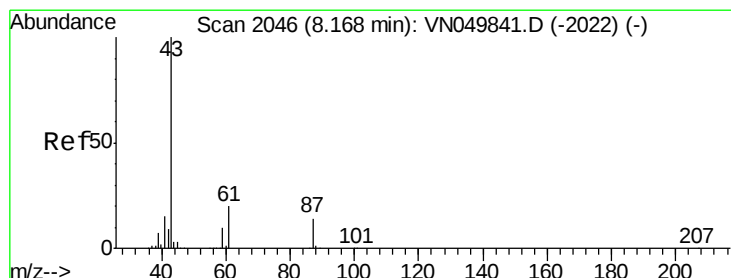
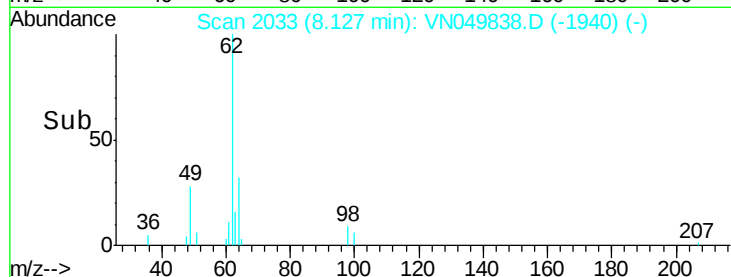
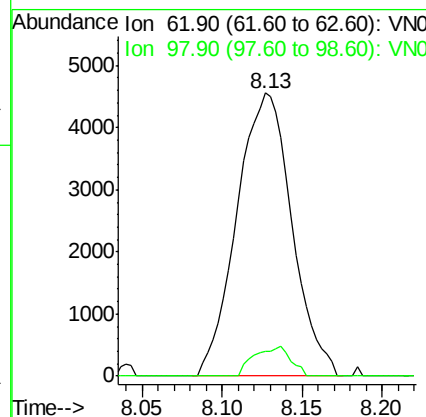
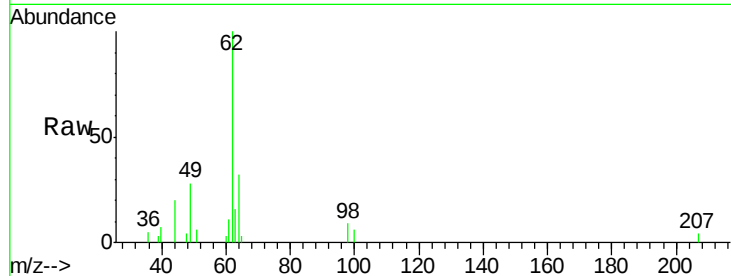
ClientSampled :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.9	0.0	19.0

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



#43

Isopropyl Acetate

Concen: 0.54 ug/l

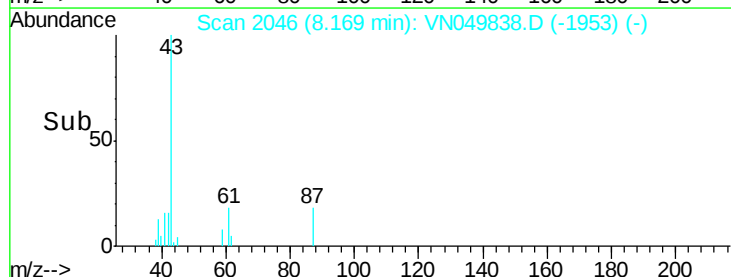
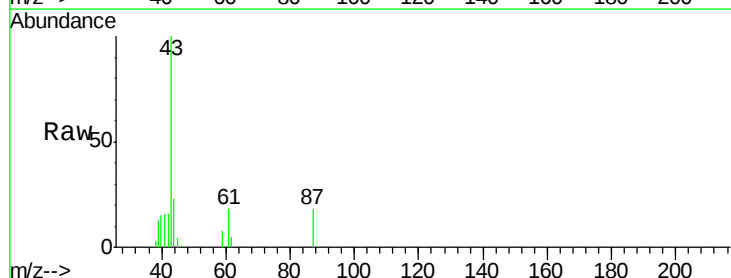
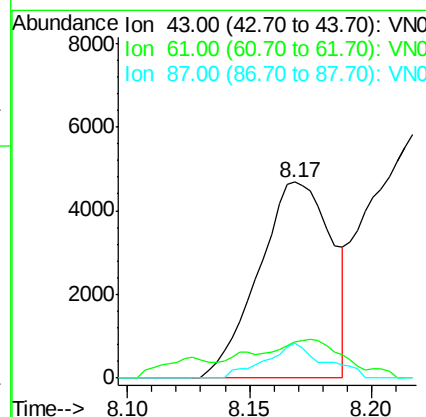
RT: 8.17 min Scan# 2046

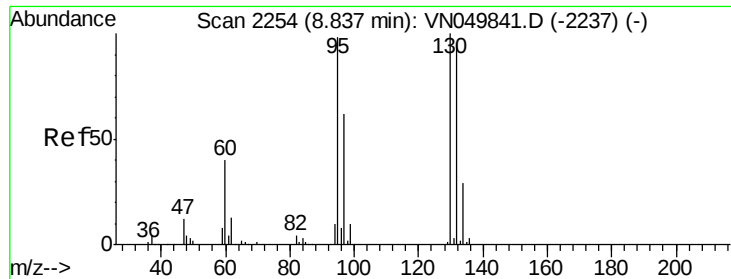
Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.9	22.3
87	14.1	10.0	15.0





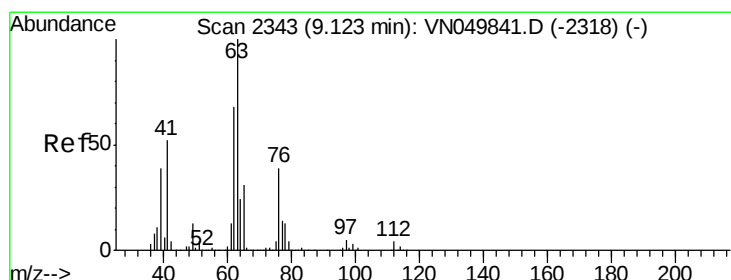
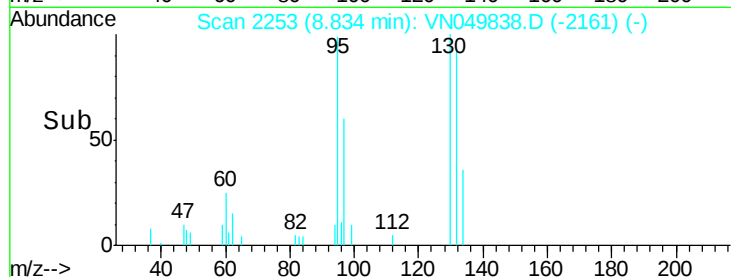
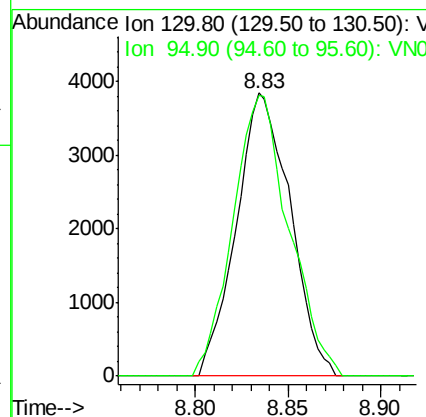
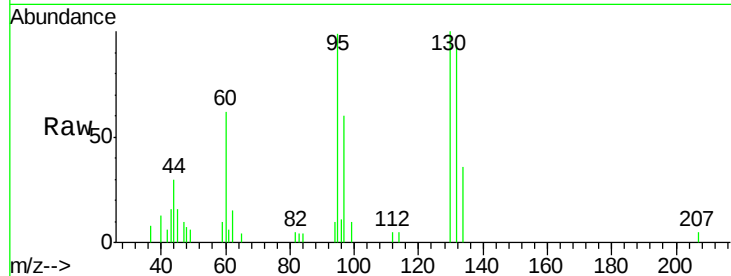
#44
 Trichloroethene
 Concen: 1.02 ug/l
 RT: 8.83 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	192.8

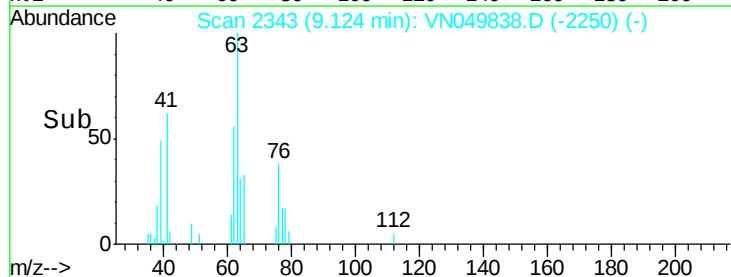
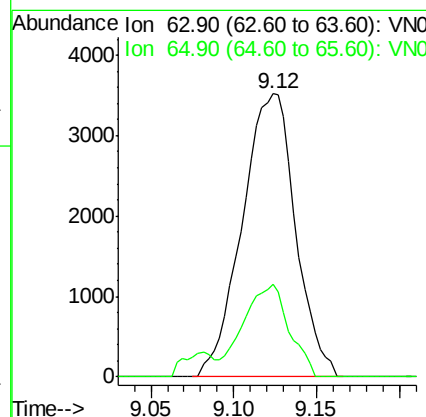
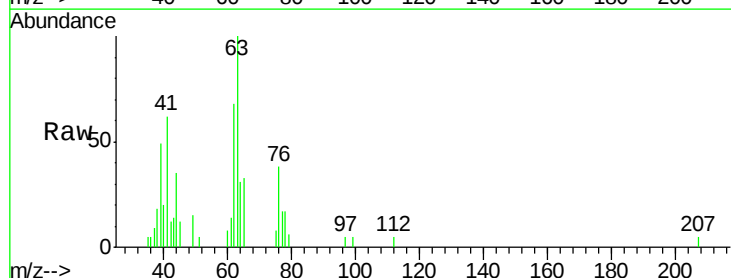
Manual Integrations
 APPROVED

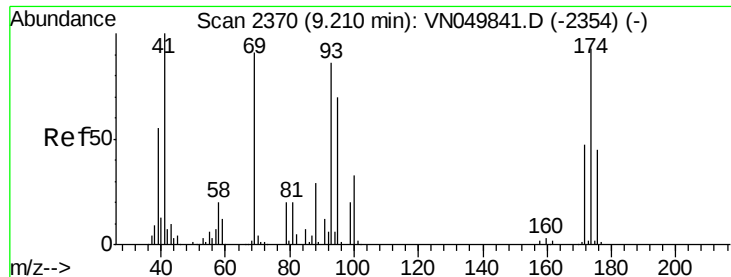
MMDadoda
 7/18/2018 11:59:07 AM



#45
 1,2-Dichloropropane
 Concen: 1.06 ug/l
 RT: 9.12 min Scan# 2343
 Delta R.T. 0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Tgt Ion	Ratio	Lower	Upper
63	100		
65	33.0	24.7	37.1





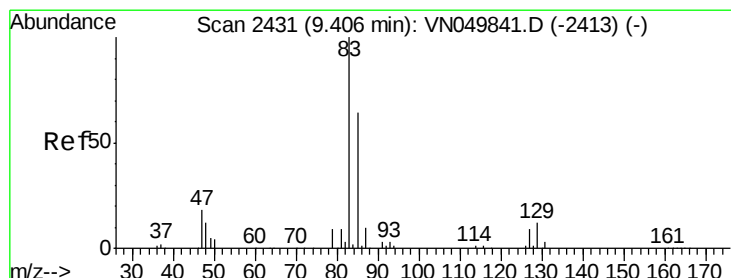
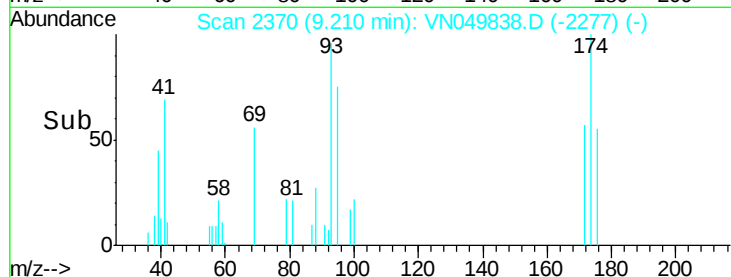
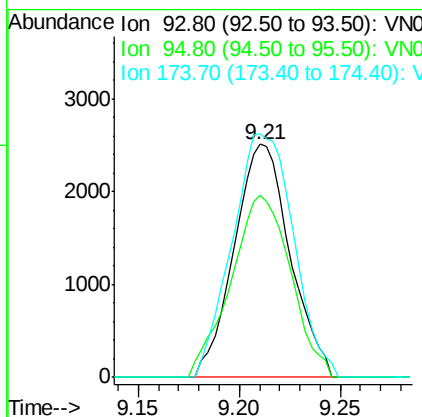
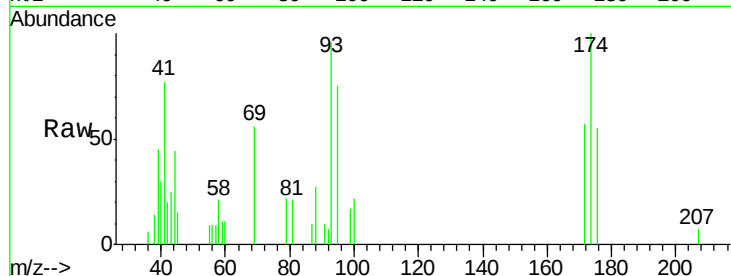
#46
Dibromomethane
Concen: 0.98 ug/l
RT: 9.21 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
93	100		
95	83.1	67.9	101.9
174	114.7	89.4	134.0

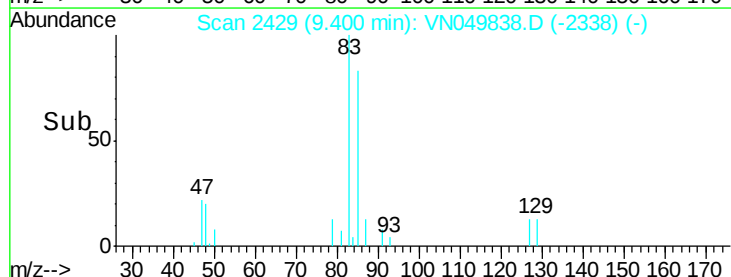
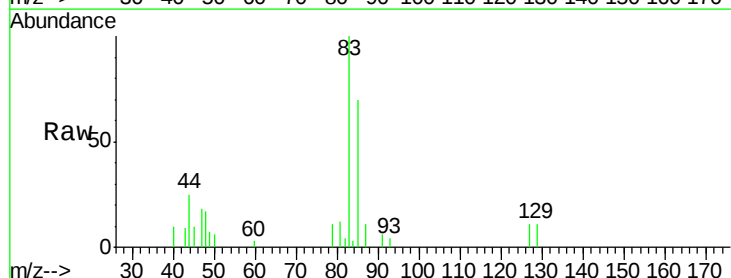
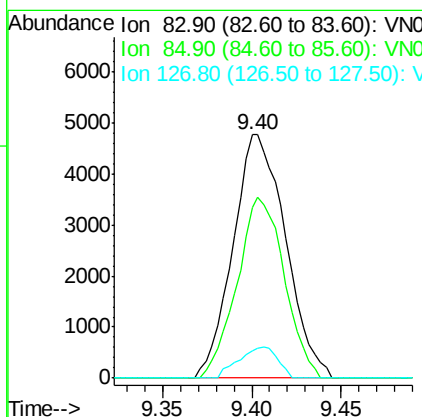
Manual Integrations
APPROVED

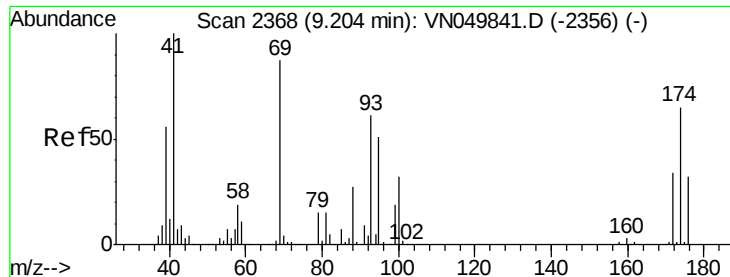
MMDadoda
7/18/2018 11:59:07 AM



#47
Bromodichloromethane
Concen: 1.00 ug/l
RT: 9.40 min Scan# 2429
Delta R.T. -0.01 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.0	50.5	75.7
127	11.3	6.8	10.2





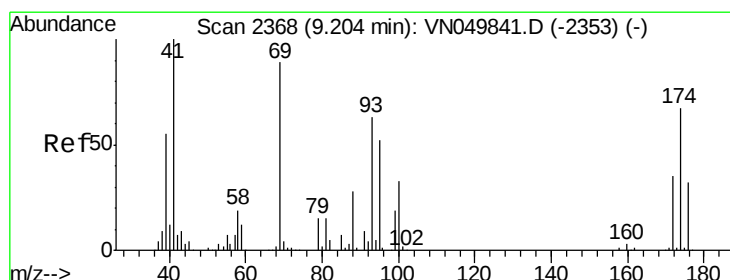
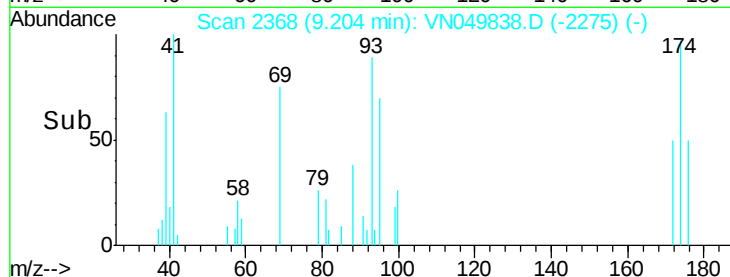
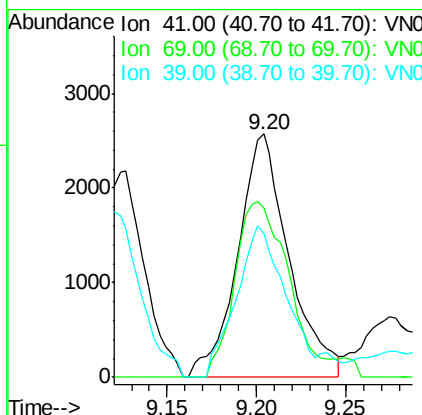
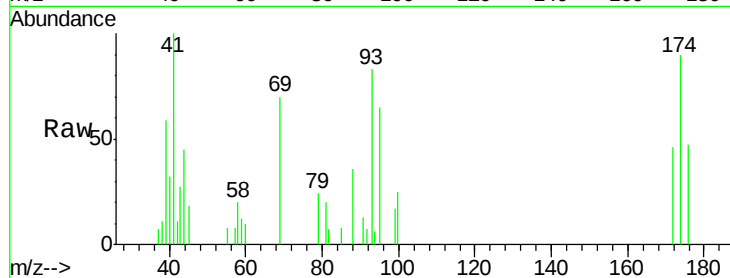
#48
Methvl methacrylate
Concen: 0.81 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
69	75.9	71.5	107.3
39	59.7	44.7	67.1

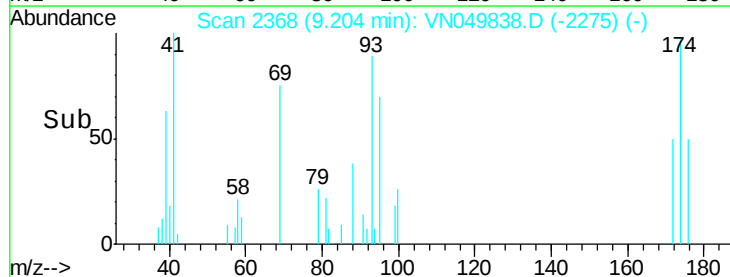
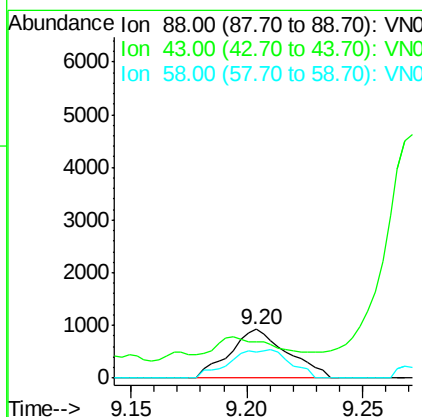
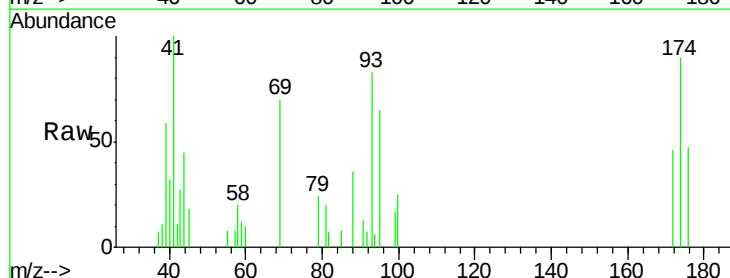
Manual Integrations
APPROVED

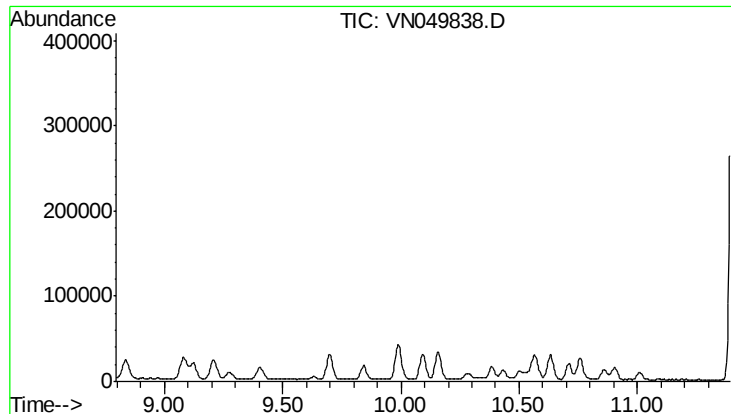
MMDadoda
7/18/2018 11:59:07 AM



#49
1,4-Dioxane
Concen: 15.18 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion	Ratio	Lower	Upper
88	100		
43	52.1	25.1	37.7#
58	61.7	52.5	78.7





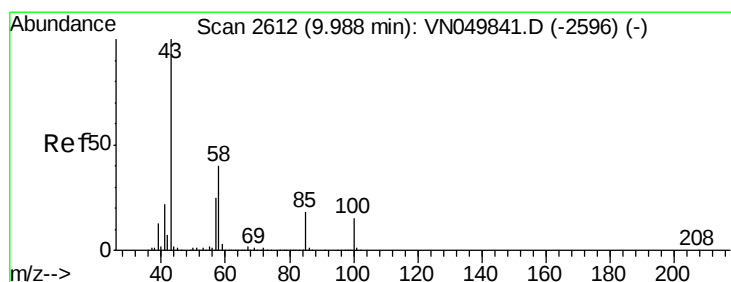
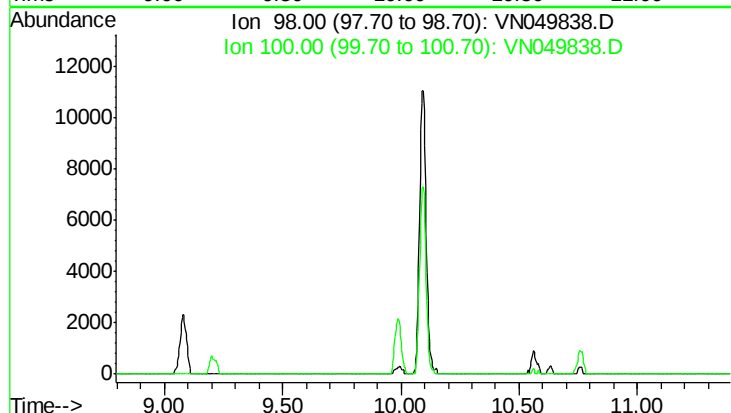
#50
Toluene-d8
Concen: 0.00 ug/l
Expected RT: 10.09 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 98
Sig Exp Ratio
98 100
100 64.6

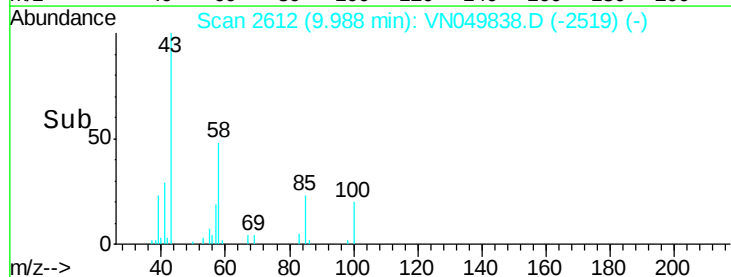
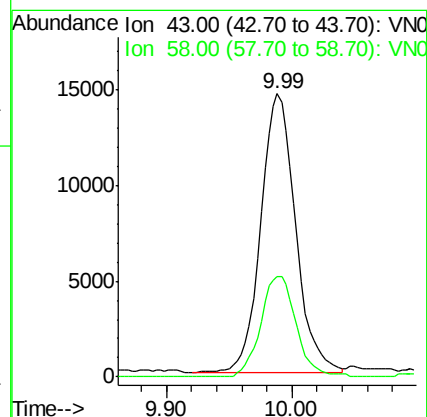
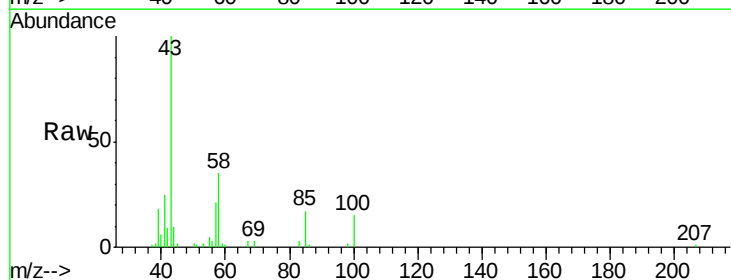
Manual Integrations
APPROVED

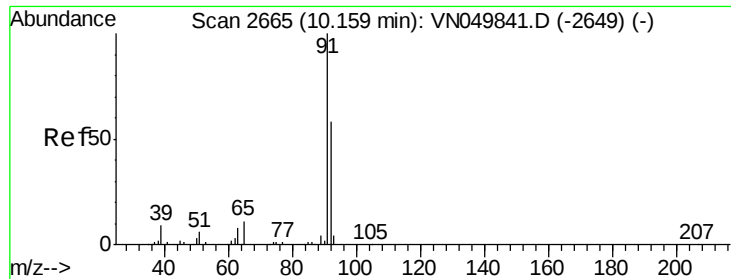
MMDadoda
7/18/2018 11:59:07 AM



#51
4-Methyl-2-Pentanone
Concen: 3.64 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion: 43 Resp: 28153
Ion Ratio Lower Upper
43 100
58 36.8 31.8 47.8





#52

Toluene

Concen: 0.85 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 92 Resp: 14695

Ion Ratio Lower Upper

92 100

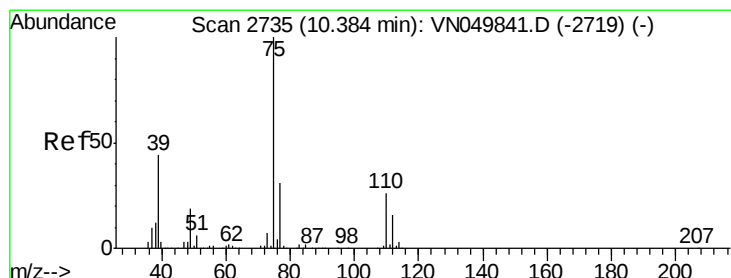
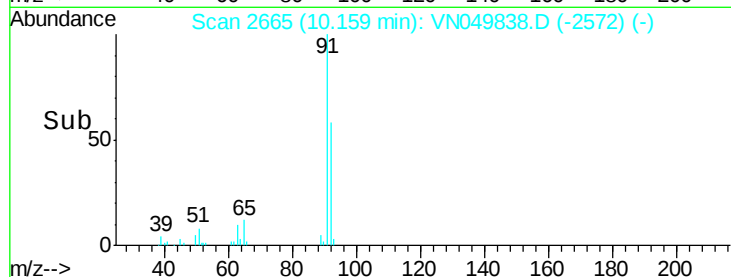
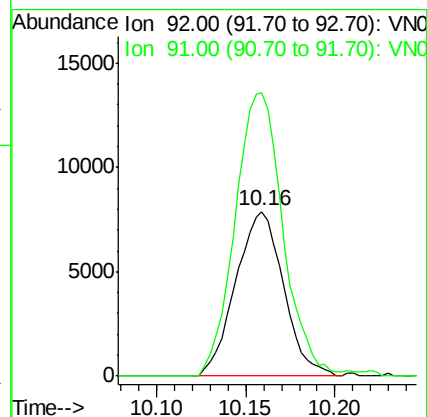
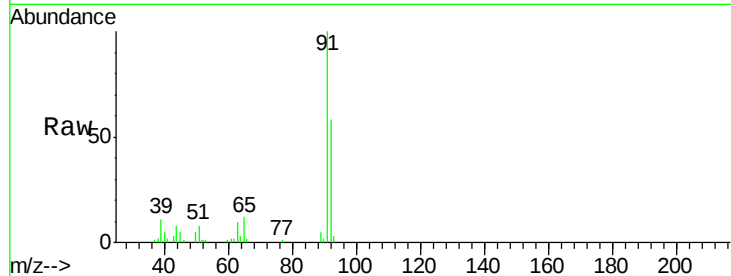
91 172.1 140.1 210.1

Manual Integrations

APPROVED

MMDadoda

7/18/2018 11:59:07 AM



#53

t-1,3-Dichloropropene

Concen: 0.78 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049838.D

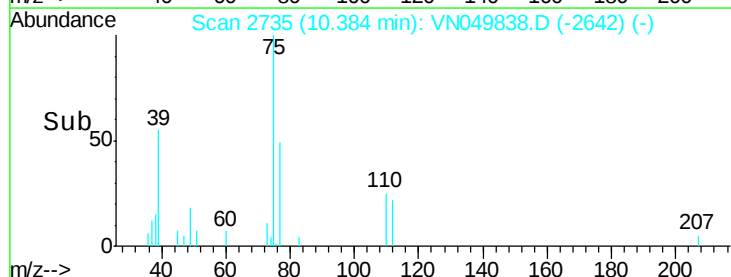
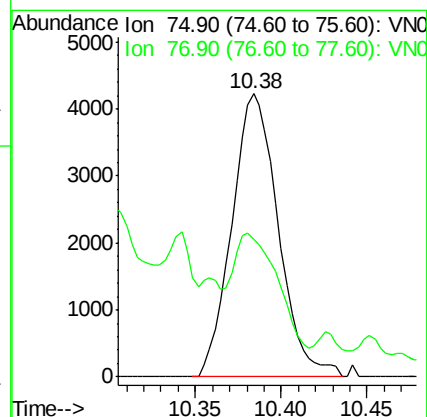
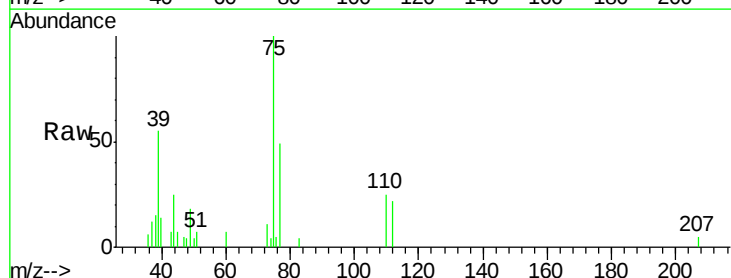
Acq: 17 Jul 2018 10:37

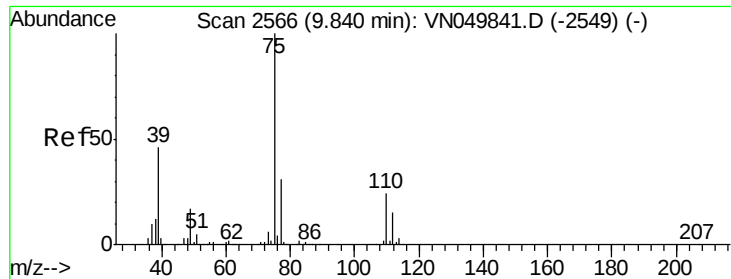
Tgt Ion: 75 Resp: 7940

Ion Ratio Lower Upper

75 100

77 39.0 25.2 37.8#





#54

cis-1,3-Dichloropropene

Concen: 0.85 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

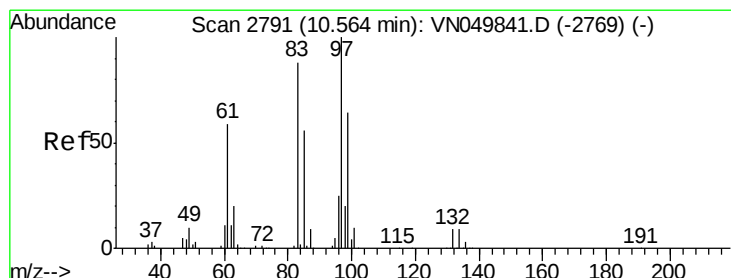
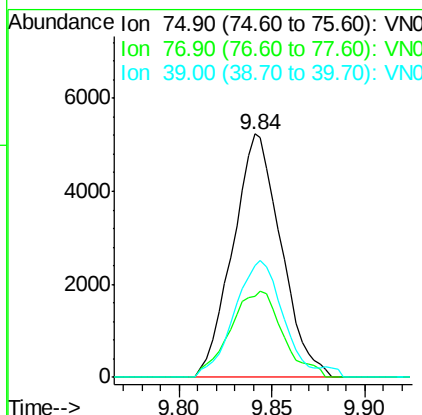
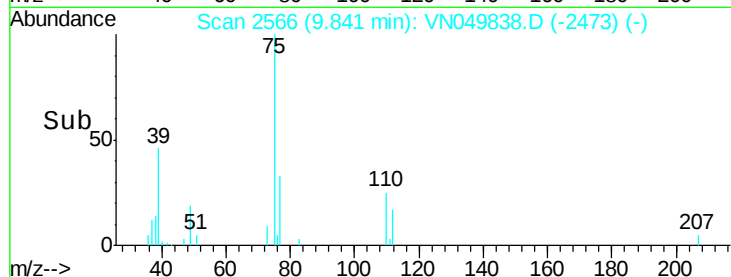
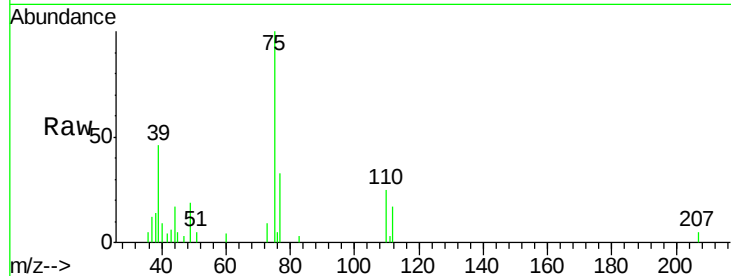
ClientSampleId :

VSTDIC001

Tot Ion:	75	Resp:	9434
Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.3	37.9
39	46.1	35.5	53.3

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



#55

1,1,2-Trichloroethane

Concen: 1.06 ug/l

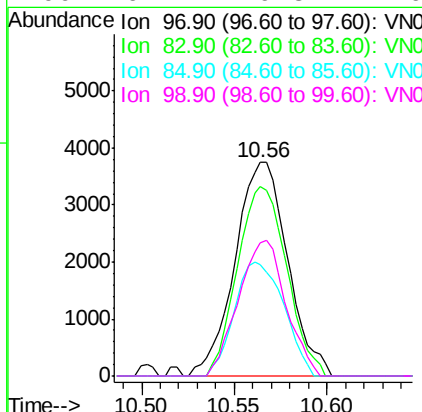
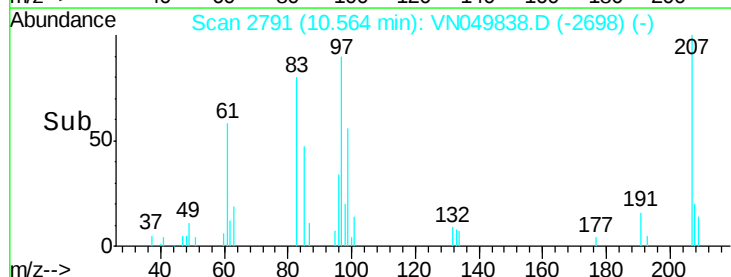
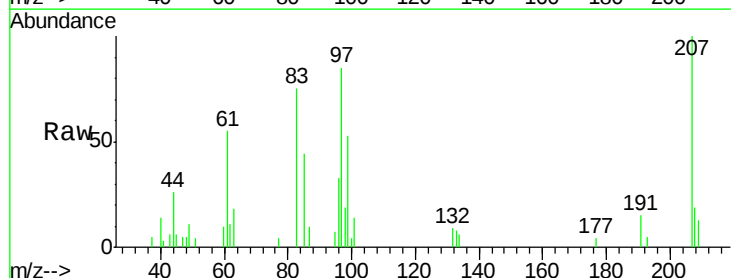
RT: 10.56 min Scan# 2791

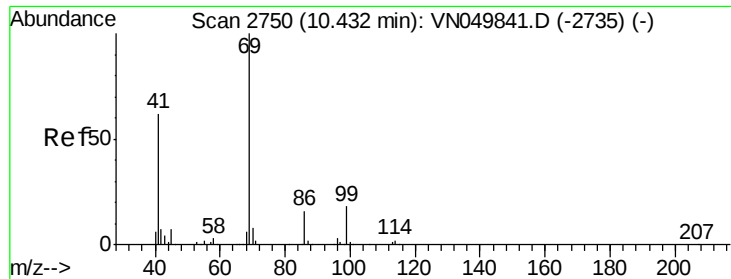
Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion:	97	Resp:	7389
Ion	Ratio	Lower	Upper
97	100		
83	88.8	69.0	103.6
85	51.9	44.9	67.3
99	62.4	49.8	74.6





#56

Ethyl methacrylate

Concen: 0.66 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

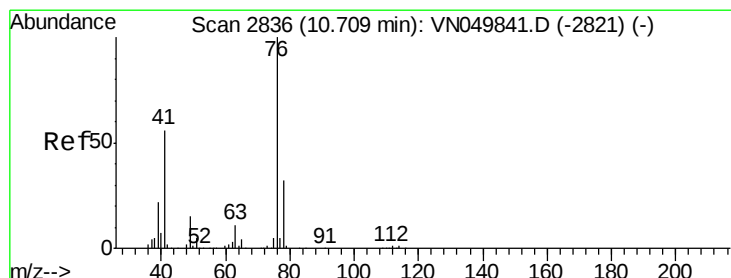
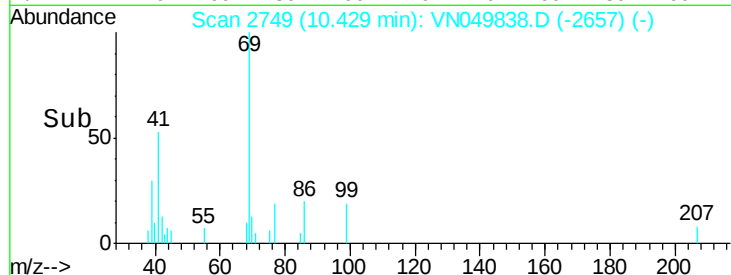
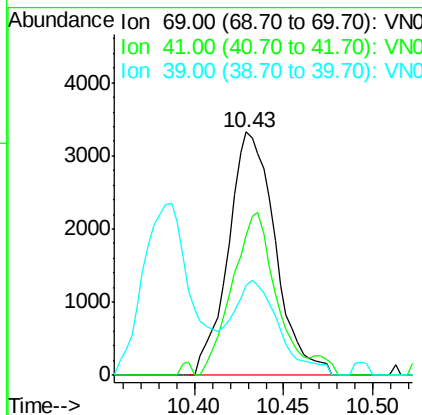
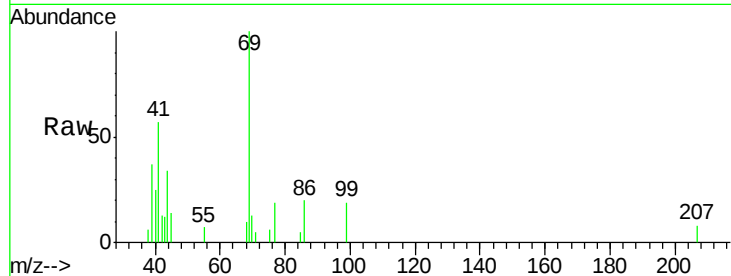
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
69	100		
41	62.0	51.6	77.4
39	39.4	25.8	38.8

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



#57

1,3-Dichloropropane

Concen: 0.99 ug/l

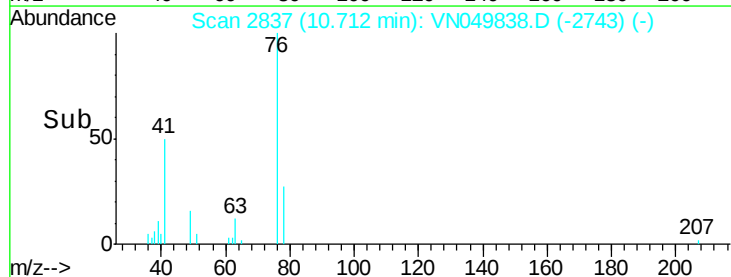
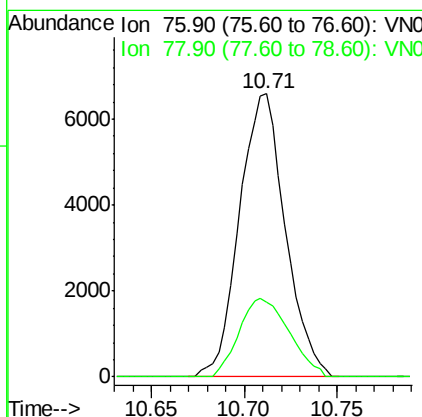
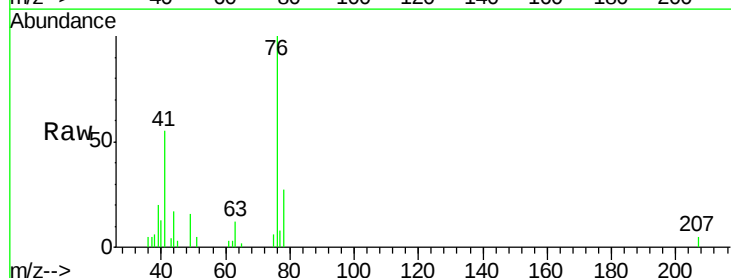
RT: 10.71 min Scan# 2837

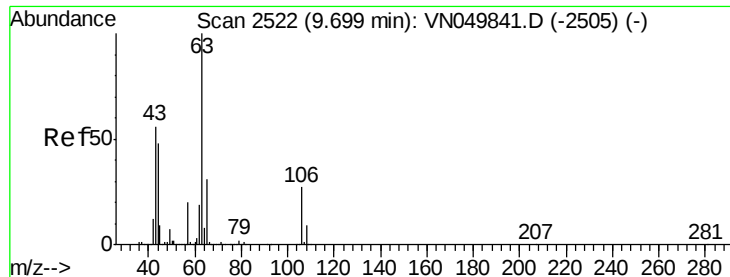
Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion	Ratio	Lower	Upper
76	100		
78	30.2	25.8	38.8





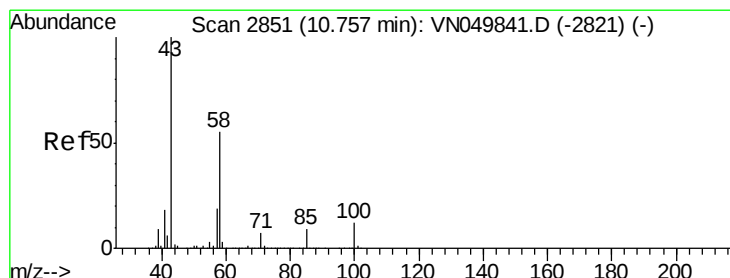
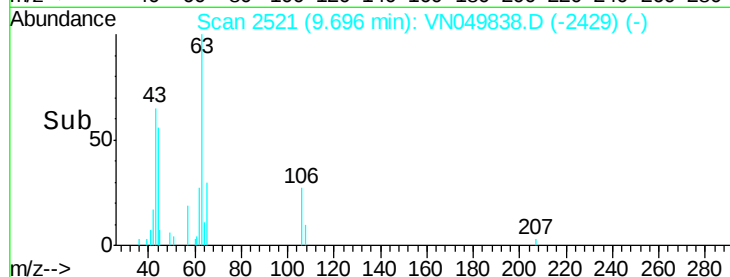
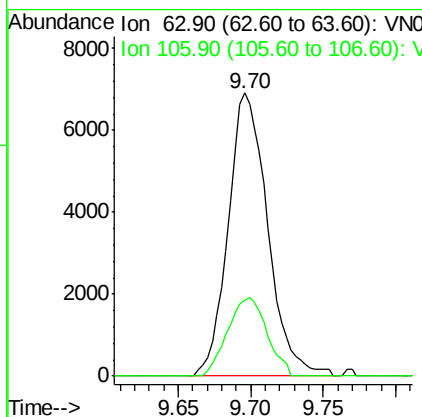
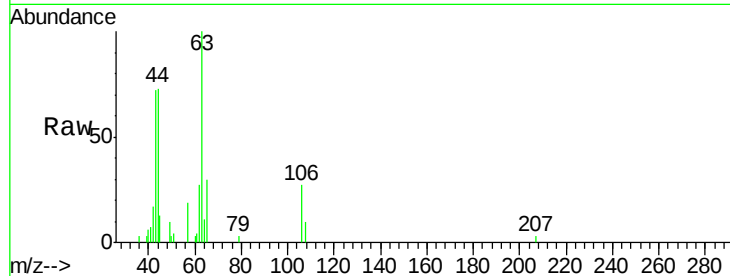
#58
 2-Chloroethyl Vinyl ether
 Concen: 3.04 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion: 63 Resp: 13087
 Ion Ratio Lower Upper
 63 100
 106 27.5 21.8 32.8

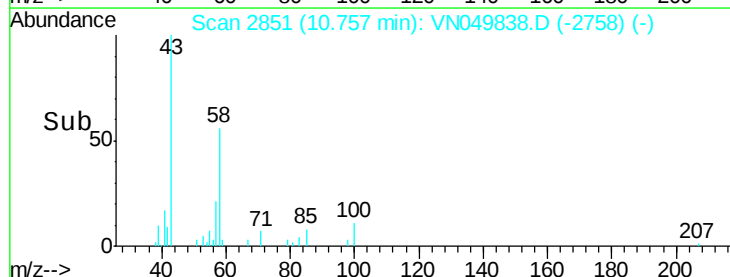
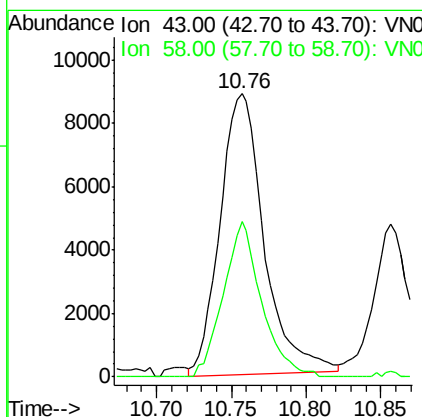
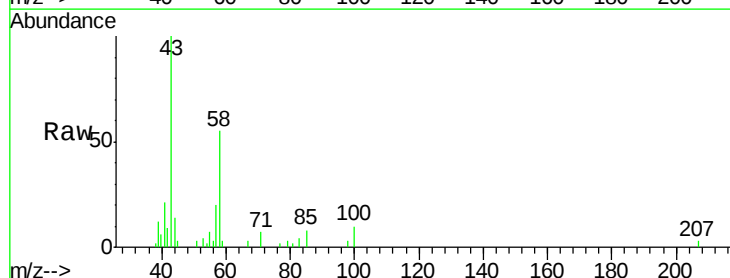
Manual Integrations
 APPROVED

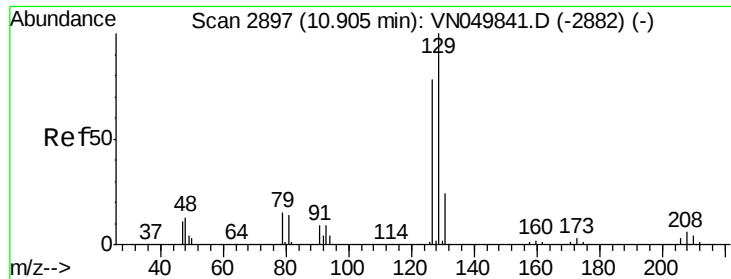
MMDadoda
 7/18/2018 11:59:07 AM



#59
 2-Hexanone
 Concen: 3.31 ug/l
 RT: 10.76 min Scan# 2851
 Delta R.T. 0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Tgt Ion: 43 Resp: 18144
 Ion Ratio Lower Upper
 43 100
 58 48.0 27.8 83.4





#60

Dibromochloromethane

Concen: 0.97 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:129 Resp: 7599

Ion Ratio Lower Upper

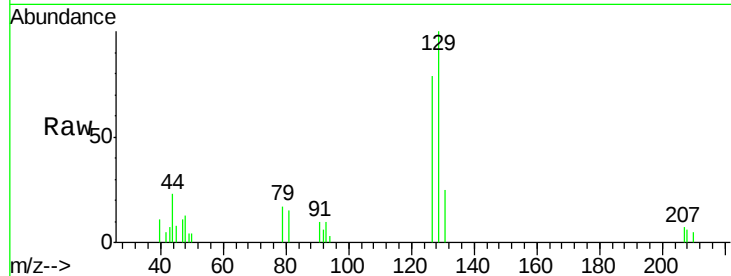
129 100

127 76.2 38.3 114.9

Manual Integrations
APPROVED

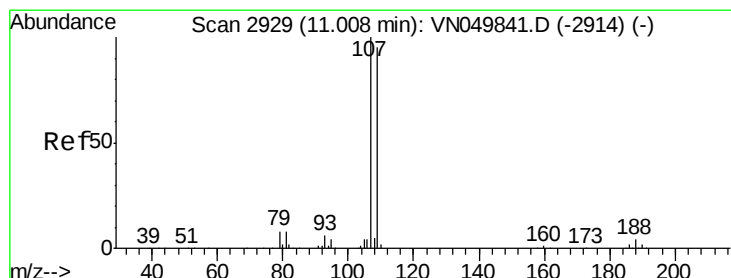
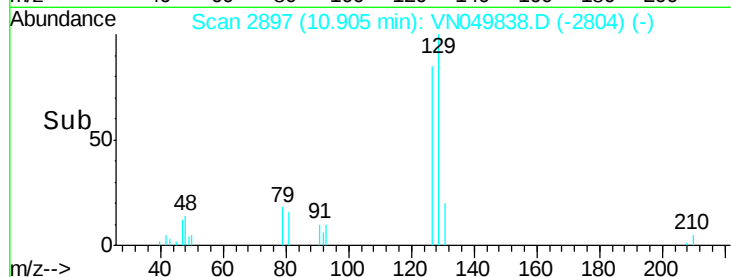
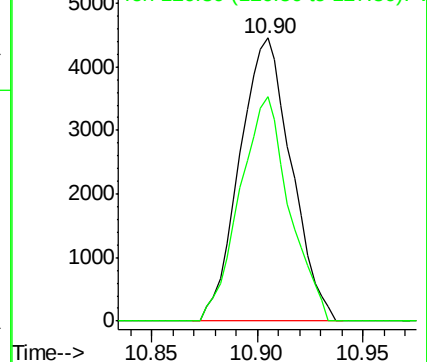
MMDadoda

7/18/2018 11:59:07 AM



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 0.93 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049838.D

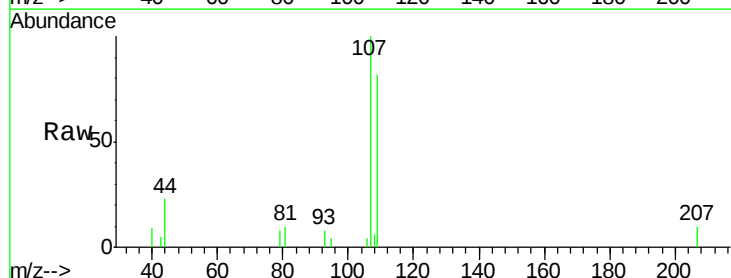
Acq: 17 Jul 2018 10:37

Tgt Ion:107 Resp: 6478

Ion Ratio Lower Upper

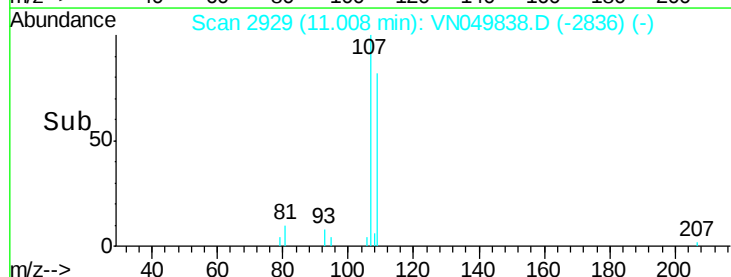
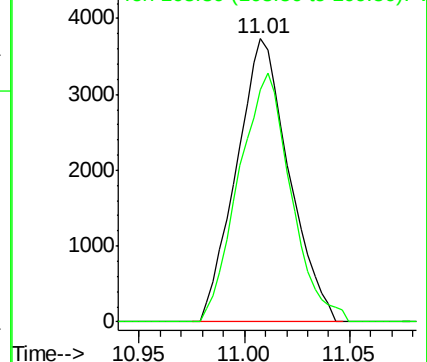
107 100

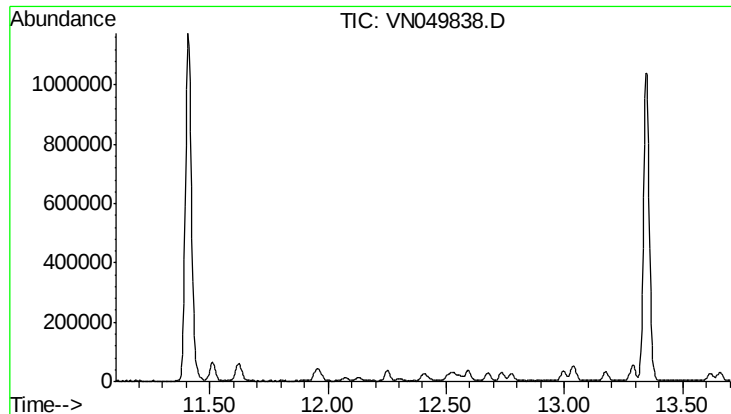
109 87.4 75.0 112.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62
 4-Bromofluorobenzene
 Concen: 0.00 ug/l
 Expected RT: 12.40 min

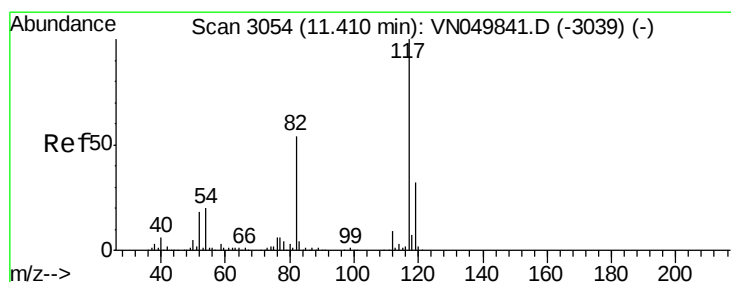
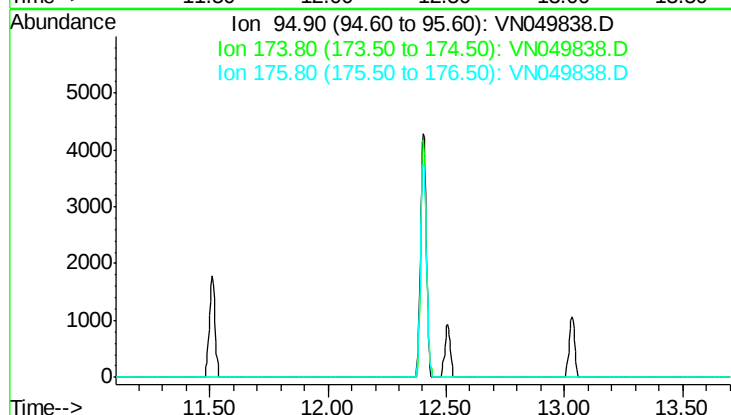
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Tot Ion	95
Sig	Exp Ratio
95	100
174	89.8
176	87.0

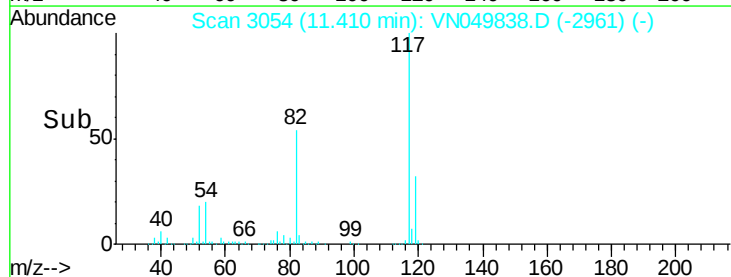
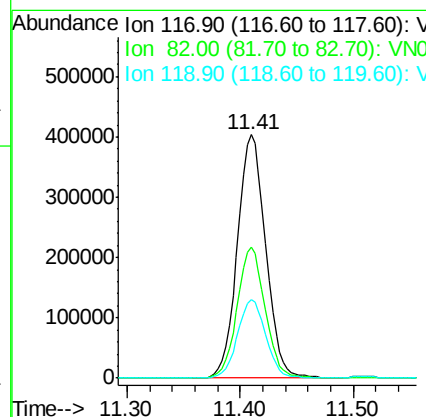
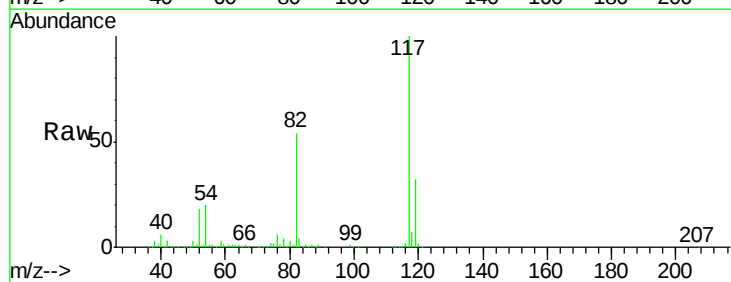
Manual Integrations
 APPROVED

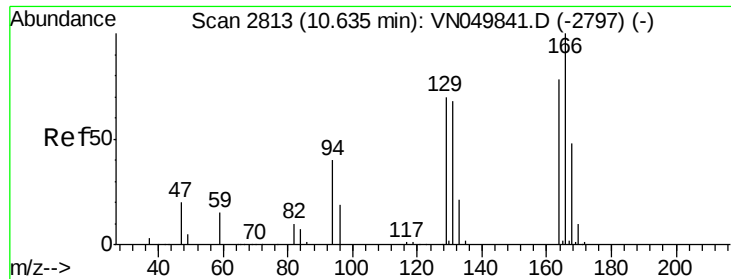
MMDadoda
 7/18/2018 11:59:07 AM



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.41 min Scan# 3054
 Delta R.T. 0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Tgt Ion	117	Resp	705090
Ion	Ratio	Lower	Upper
117	100		
82	53.5	41.9	62.9
119	32.2	25.4	38.2





#64

Tetrachloroethene

Concen: 1.10 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:164 Resp: 7154

Ion Ratio Lower Upper

164 100

166 126.1 101.8 152.6

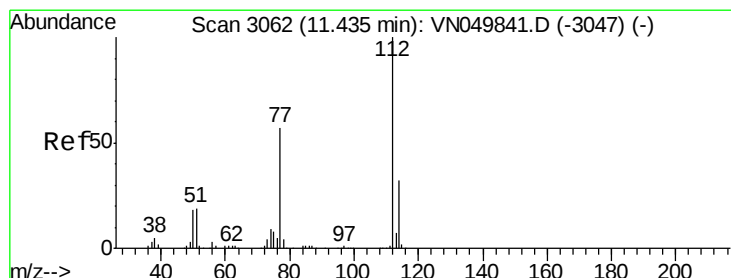
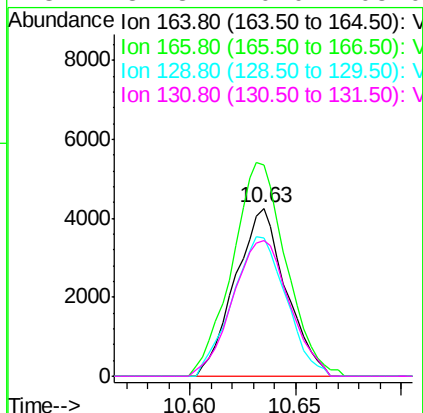
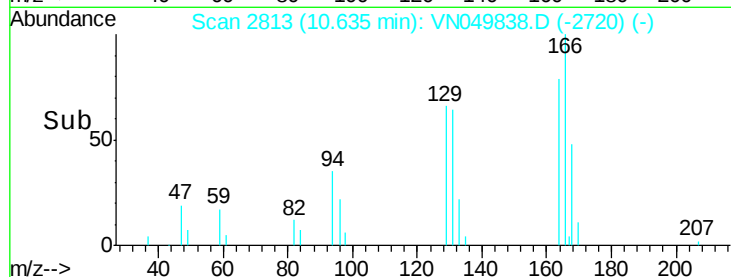
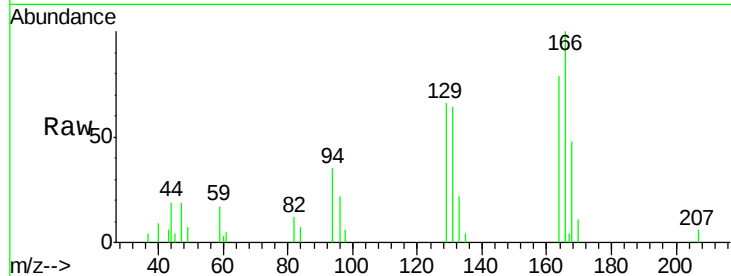
129 82.8 72.8 109.2

131 81.3 70.0 105.0

Manual Integrations
APPROVED

MMDadoda

7/18/2018 11:59:07 AM



#65

Chlorobenzene

Concen: 1.05 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049838.D

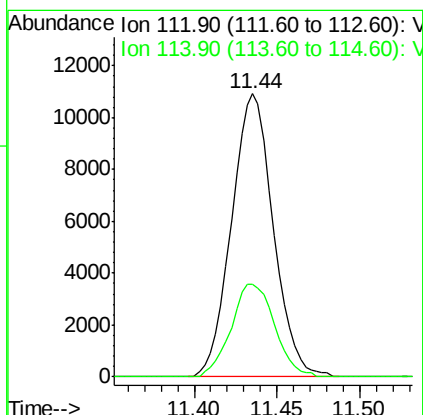
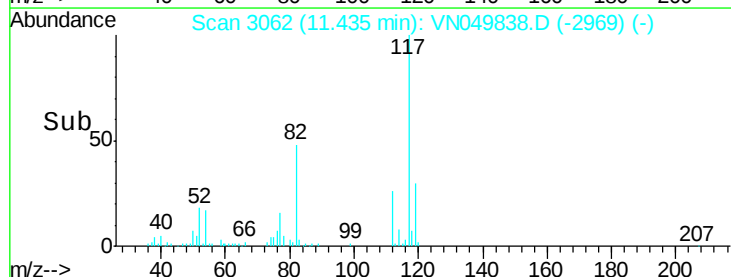
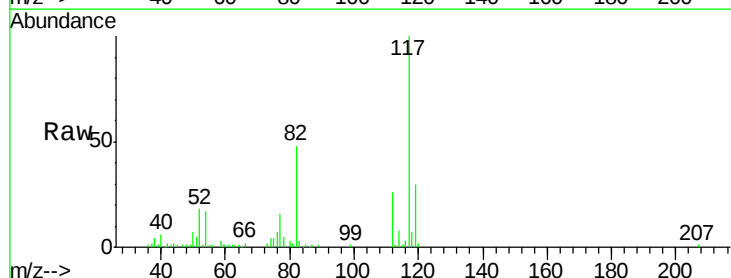
Acq: 17 Jul 2018 10:37

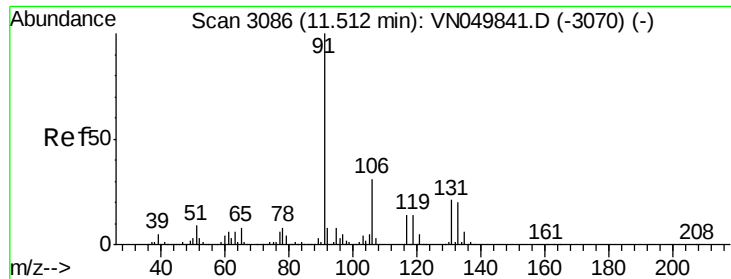
Tgt Ion:112 Resp: 19072

Ion Ratio Lower Upper

112 100

114 32.6 25.4 38.0





#66

1,1,1,2-Tetrachloroethane

Concen: 1.07 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

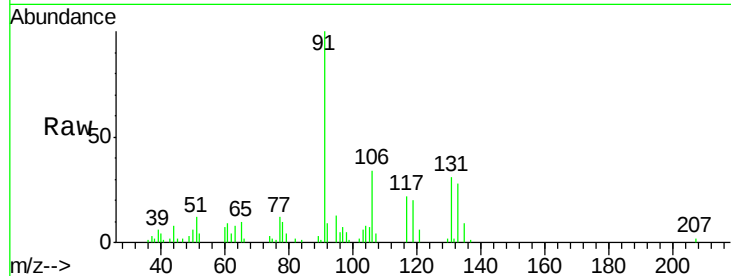
ClientSampleId :

VSTDIC001

Tot Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.5	142.6
119	0.0	33.1	99.3#

Manual Integrations
APPROVED

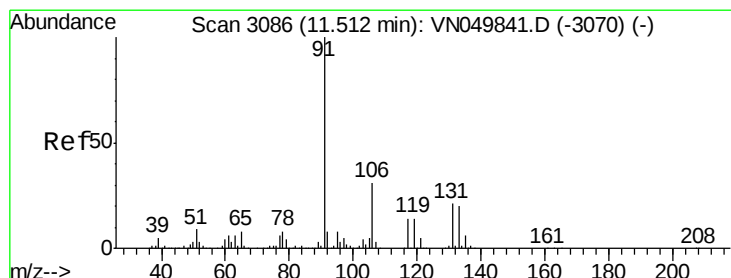
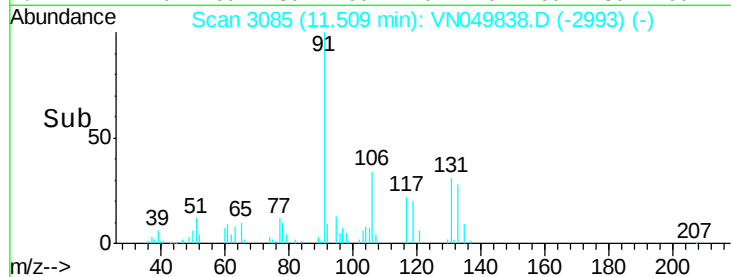
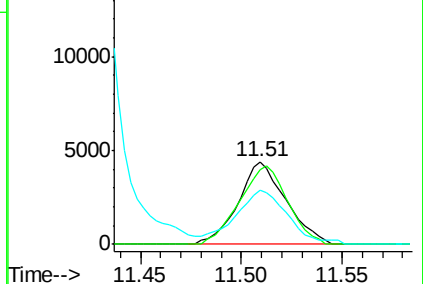
MMDadoda
7/18/2018 11:59:07 AM



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 0.86 ug/l

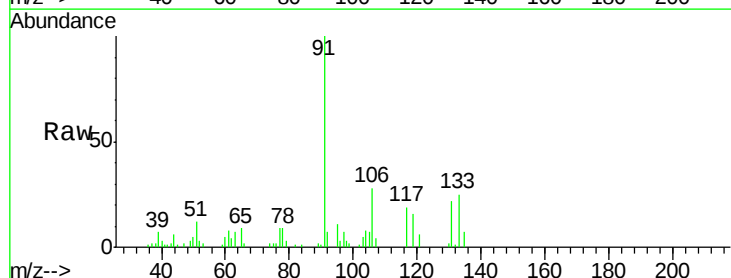
RT: 11.52 min Scan# 3087

Delta R.T. 0.00 min

Lab File: VN049838.D

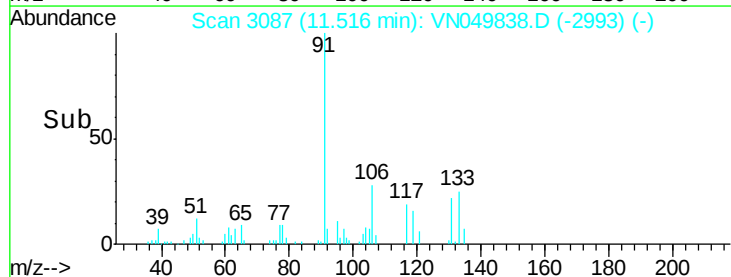
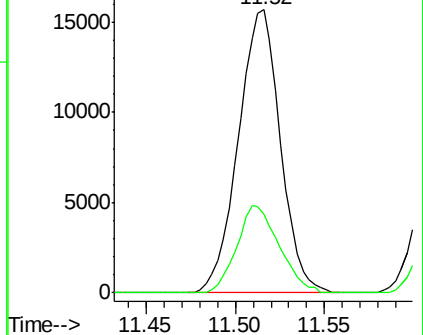
Acq: 17 Jul 2018 10:37

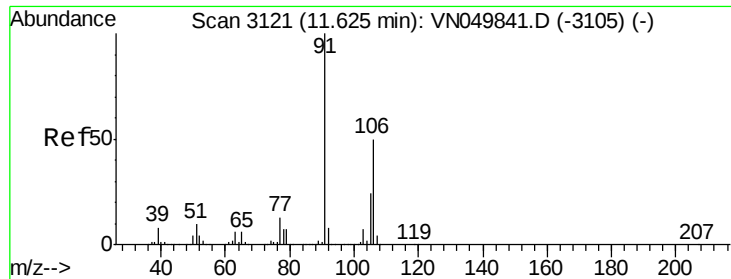
Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.9	24.8	37.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





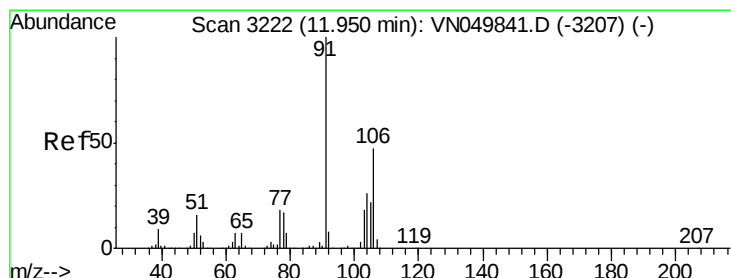
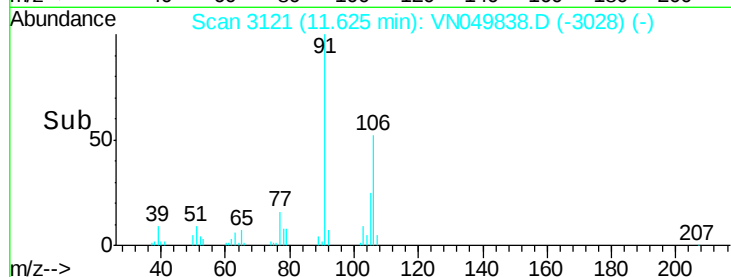
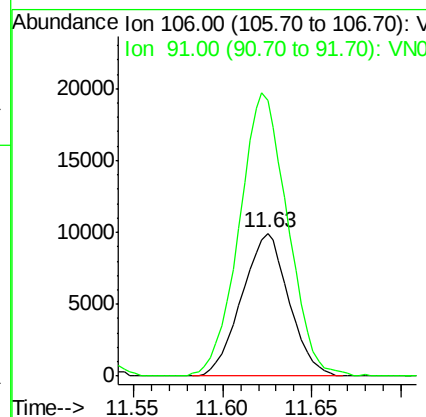
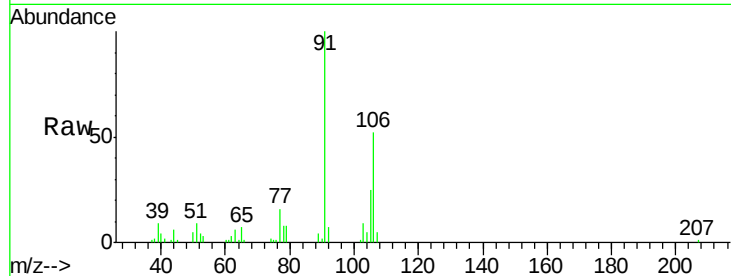
#68
m/p-Xvlenes
Concen: 1.61 ug/l
RT: 11.63 min Scan# 3121
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion:106 Resp: 18314
Ion Ratio Lower Upper
106 100
91 203.3 163.4 245.2

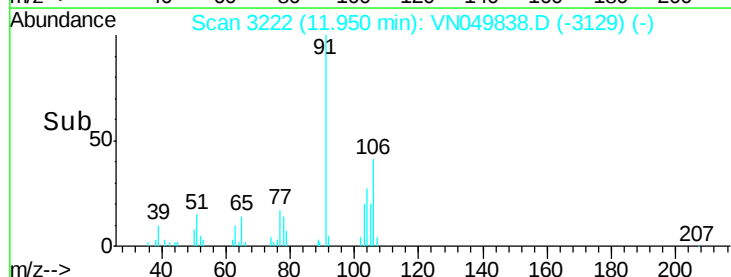
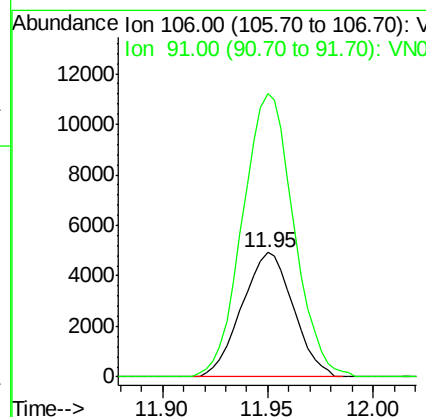
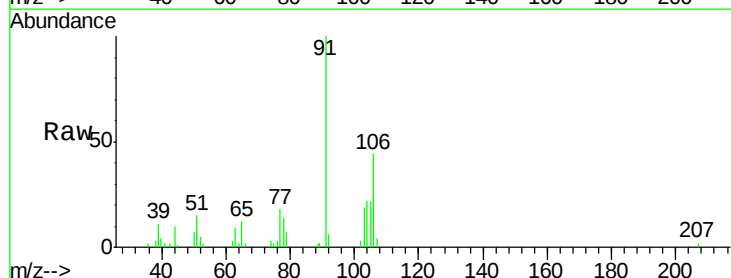
Manual Integrations
APPROVED

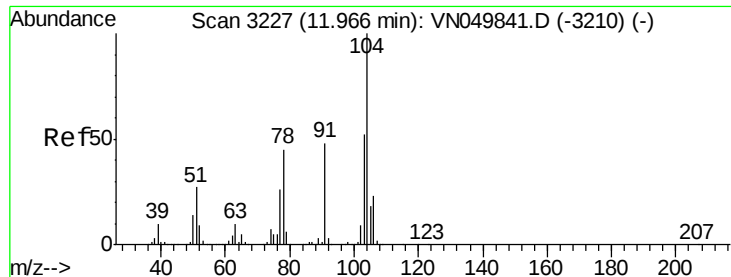
MMDadoda
7/18/2018 11:59:07 AM



#69
o-Xylene
Concen: 0.77 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion:106 Resp: 8358
Ion Ratio Lower Upper
106 100
91 225.8 108.7 326.1





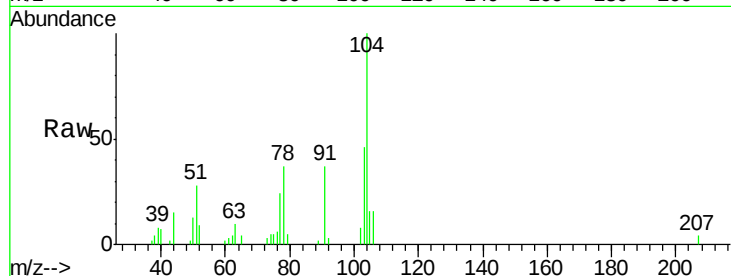
#70
Stvrene
Concen: 0.72 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

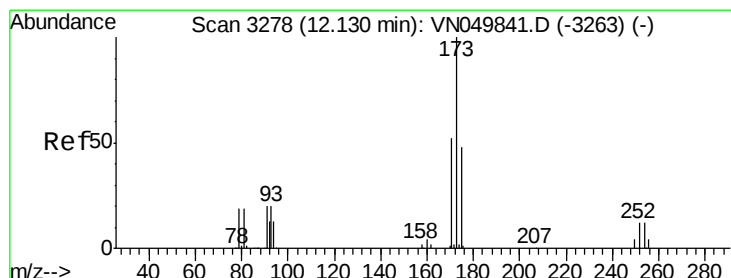
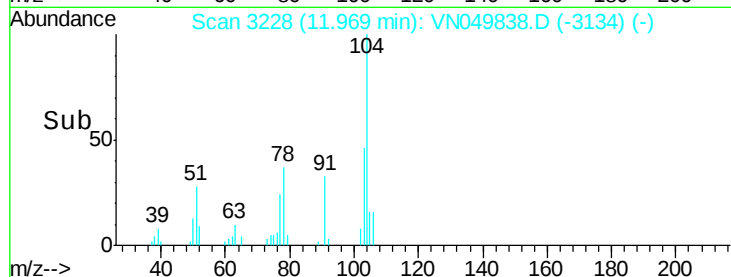
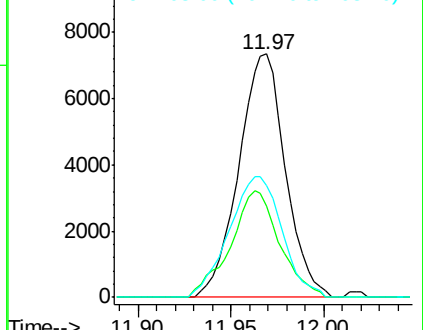
Tot Ion	Ratio	Lower	Upper
104	100		
78	46.3	39.2	58.8
103	56.2	44.6	67.0

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM

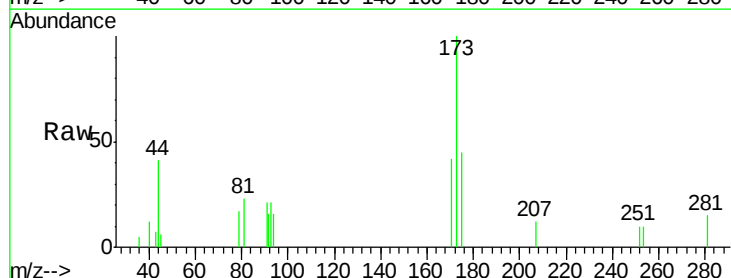


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

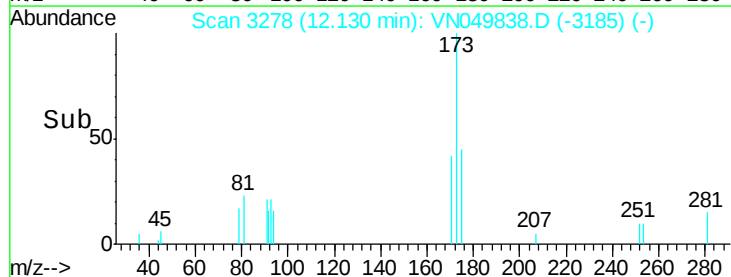
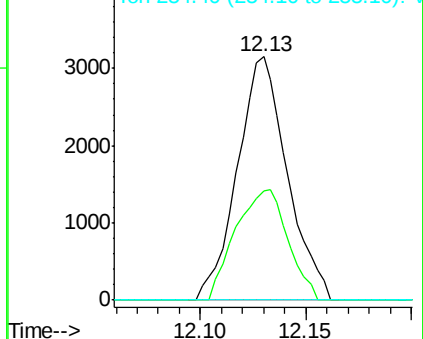


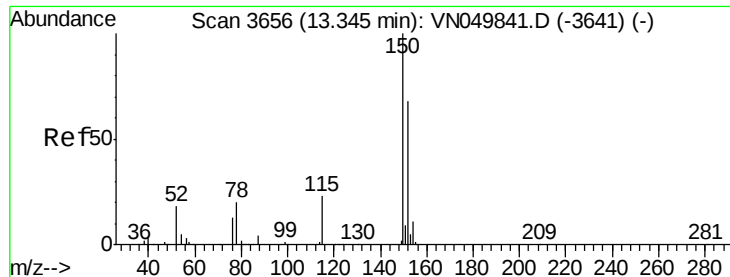
#71
Bromoform
Concen: 0.96 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.5	24.6	73.8
254	0.0	0.2	0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion:152 Resp: 292832

Ion Ratio Lower Upper

152 100

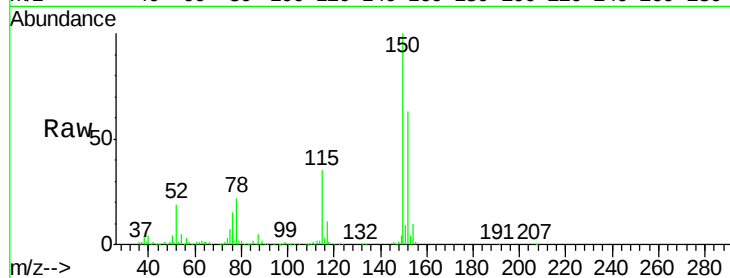
115 55.4 28.1 84.2

150 158.1 0.0 347.6

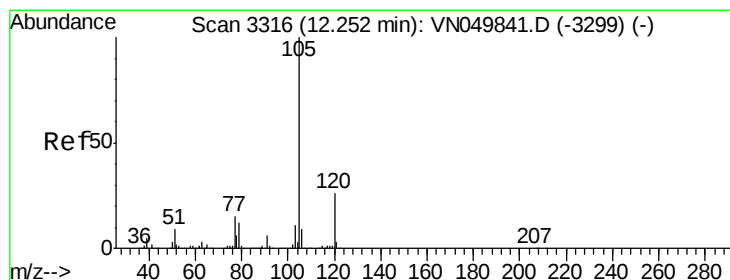
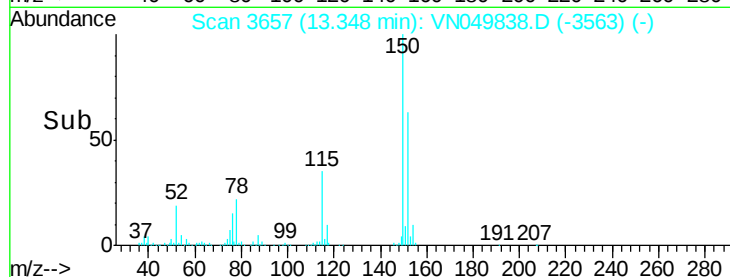
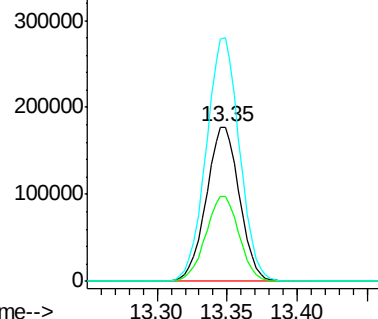
Manual Integrations
APPROVED

MMDadoda

7/18/2018 11:59:07 AM



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.96 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049838.D

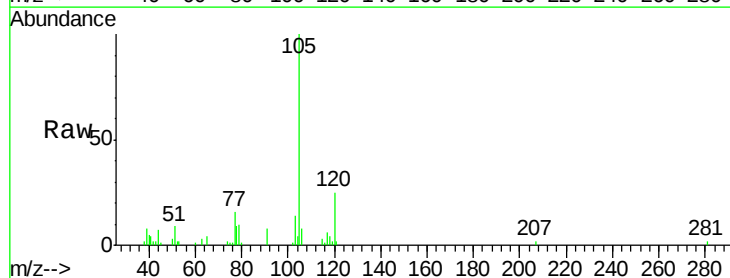
Acq: 17 Jul 2018 10:37

Tgt Ion:105 Resp: 22401

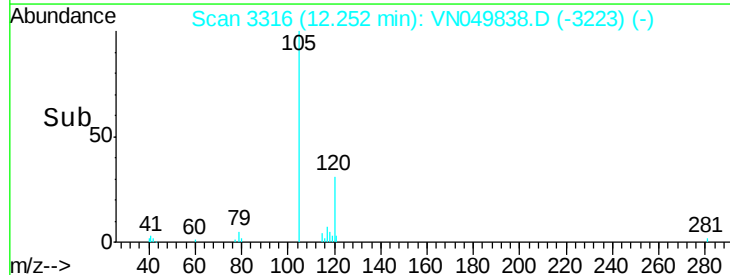
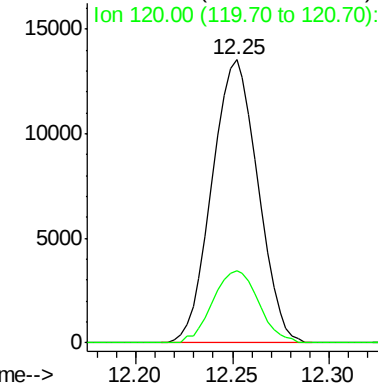
Ion Ratio Lower Upper

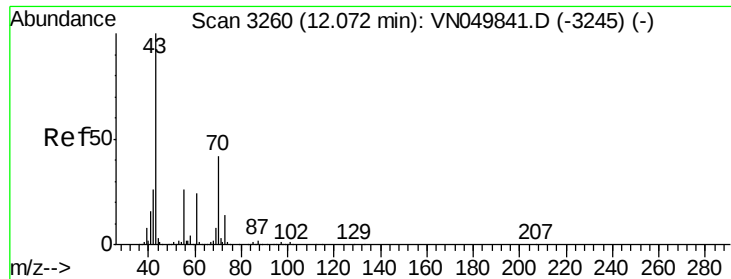
105 100

120 25.4 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.89 ug/l

RT: 12.08 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampleId :

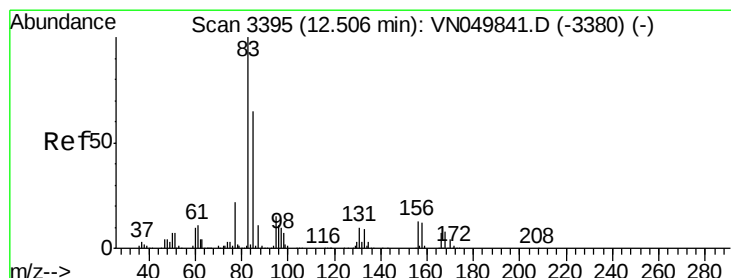
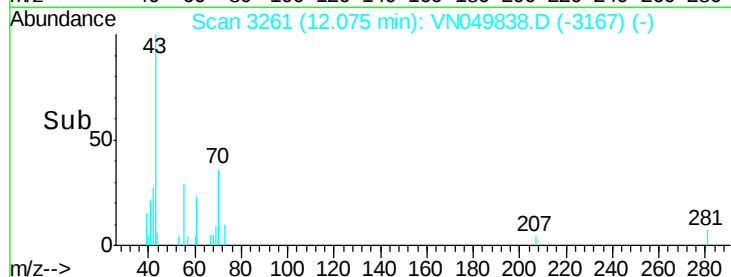
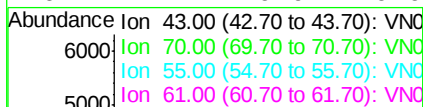
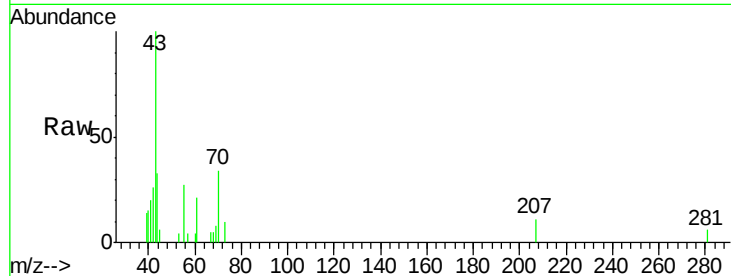
VSTDIC001

Tot Ion: 43 Resp: 7289

Ion	Ratio	Lower	Upper
43	100		
70	32.5	34.8	52.2#
55	22.4	20.9	31.3
61	17.7	19.9	29.9#

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



#75

1,1,2,2-Tetrachloroethane

Concen: 1.13 ug/l

RT: 12.51 min Scan# 3395

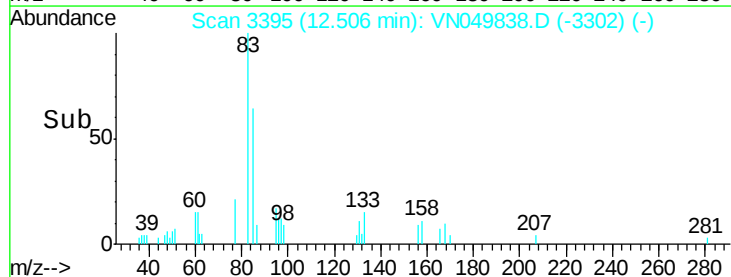
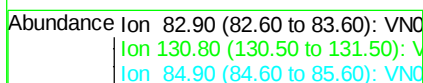
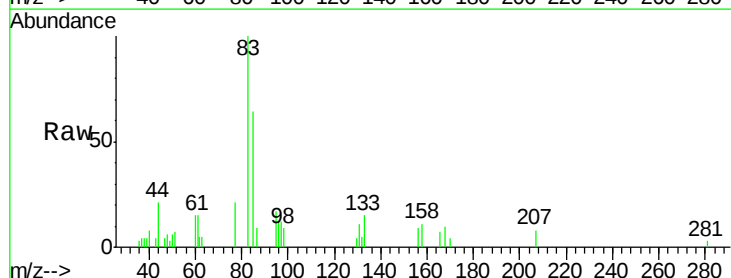
Delta R.T. 0.00 min

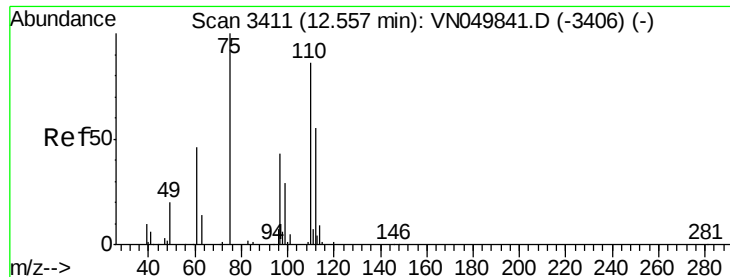
Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion: 83 Resp: 8543

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.2	15.6
85	69.6	32.5	97.4





#76

1,2,3-Trichloropropane

Concen: 1.17 ug/l m

RT: 12.56 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 75 Resp: 7388

Ion Ratio Lower Upper

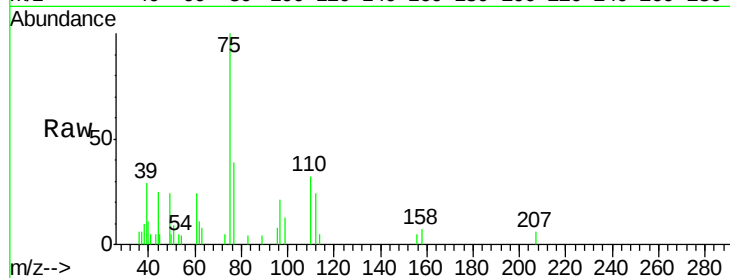
75 100

77 0.0 0.0 0.0

Manual Integrations
APPROVED

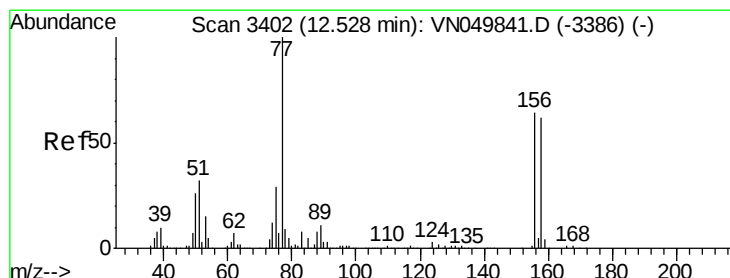
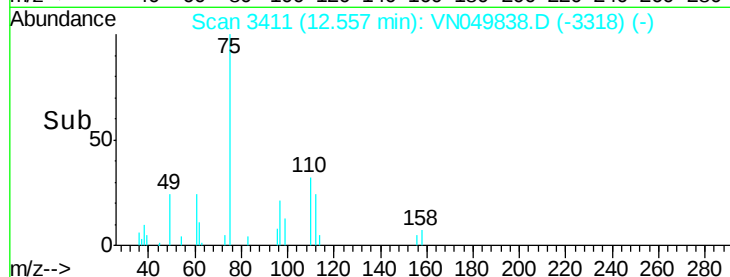
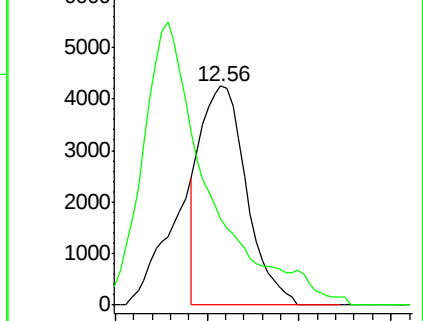
MMDadoda

7/18/2018 11:59:07 AM



Abundance Ion 74.90 (74.60 to 75.60): VN049841.D (-3406) (-)

Ion 77.00 (76.70 to 77.70): VN049841.D (-3406) (-)



#77

Bromobenzene

Concen: 1.06 ug/l

RT: 12.53 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

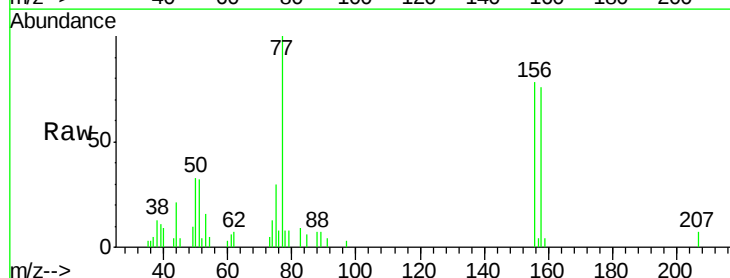
Tgt Ion: 156 Resp: 6746

Ion Ratio Lower Upper

156 100

77 203.2 90.2 270.6

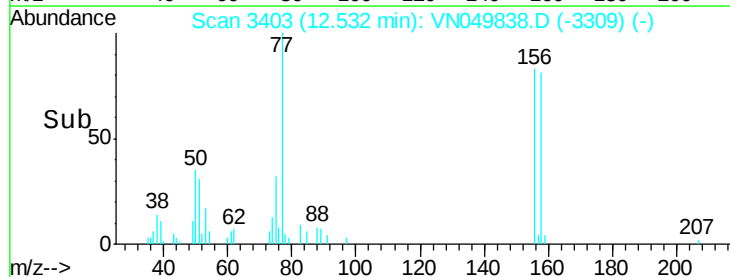
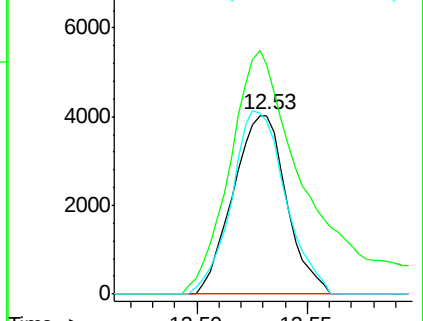
158 103.9 49.1 147.3

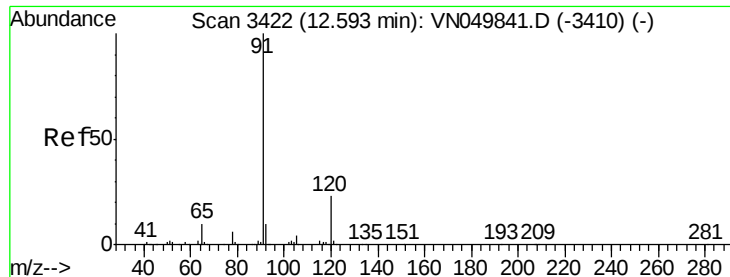


Abundance Ion 155.80 (155.50 to 156.50): VN049841.D (-3386) (-)

Ion 77.00 (76.70 to 77.70): VN049841.D (-3386) (-)

Ion 157.80 (157.50 to 158.50): VN049841.D (-3386) (-)





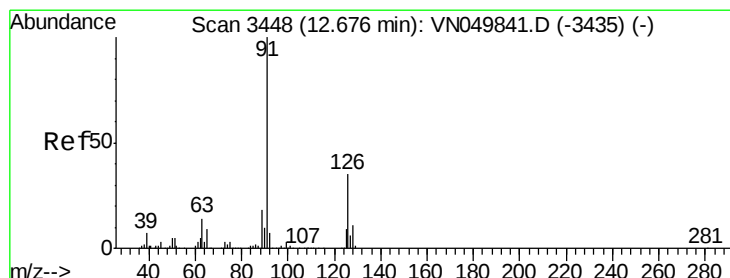
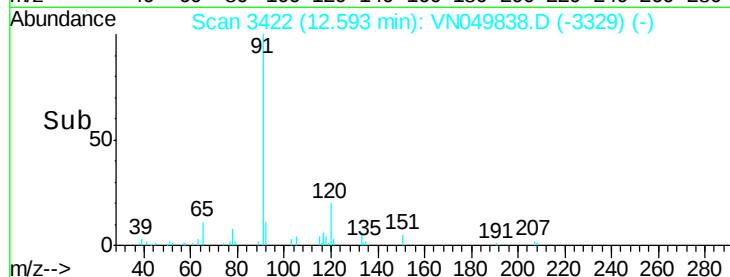
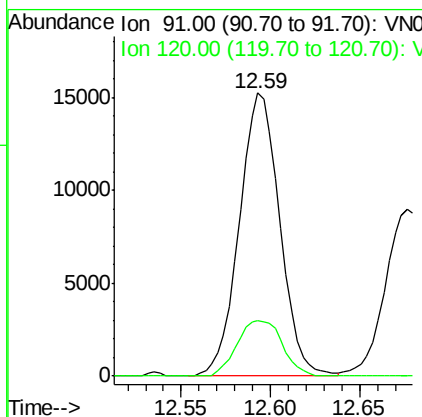
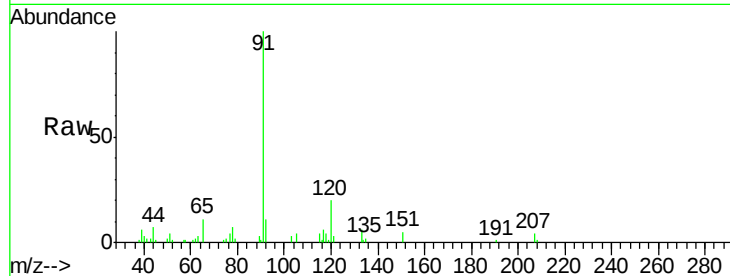
#78
n-propylbenzene
Concen: 0.91 ug/l
RT: 12.59 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion: 91 Resp: 24103
Ion Ratio Lower Upper
91 100
120 21.8 11.5 34.4

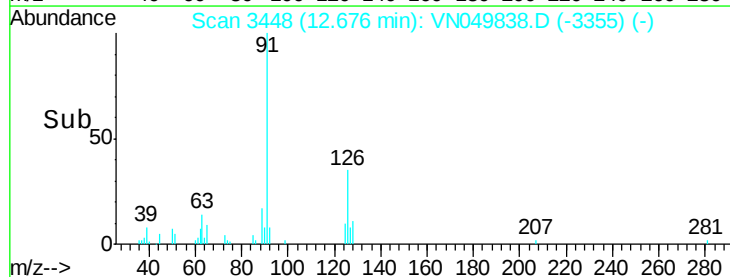
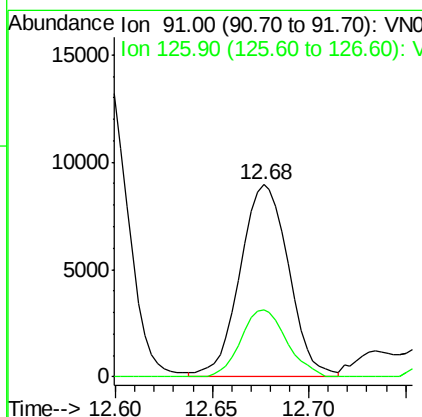
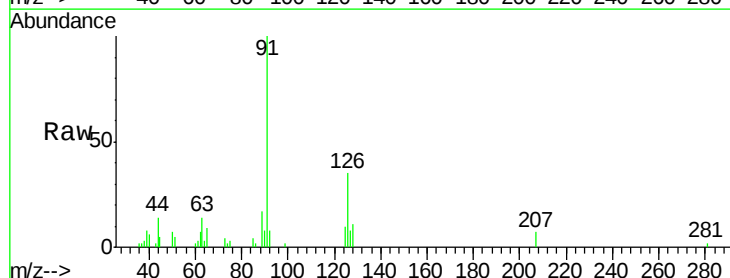
Manual Integrations
APPROVED

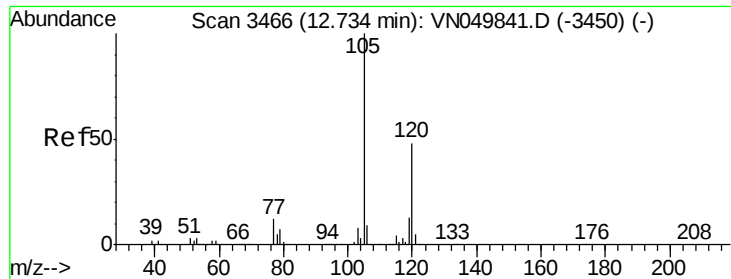
MMDadoda
7/18/2018 11:59:07 AM



#79
2-Chlorotoluene
Concen: 0.96 ug/l
RT: 12.68 min Scan# 3448
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion: 91 Resp: 15710
Ion Ratio Lower Upper
91 100
126 32.7 17.5 52.5





#80

1,3,5-Trimethylbenzene

Concen: 0.83 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion:105 Resp: 15384

Ion Ratio Lower Upper

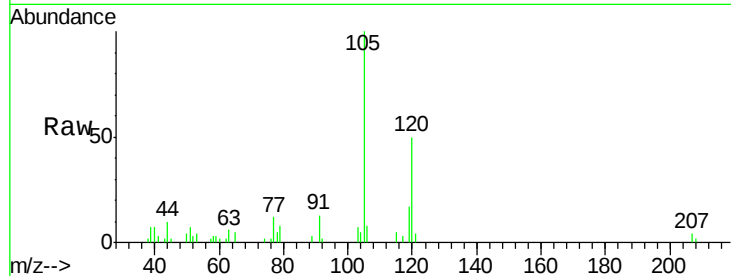
105 100

120 49.9 24.3 72.8

Manual Integrations
APPROVED

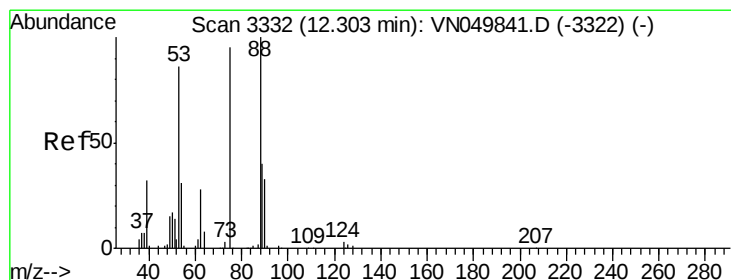
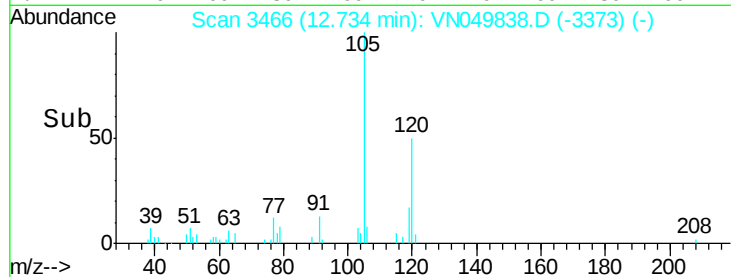
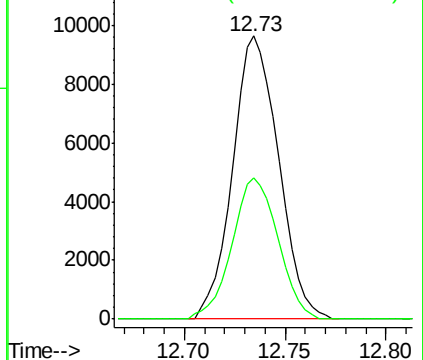
MMDadoda

7/18/2018 11:59:07 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 0.84 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

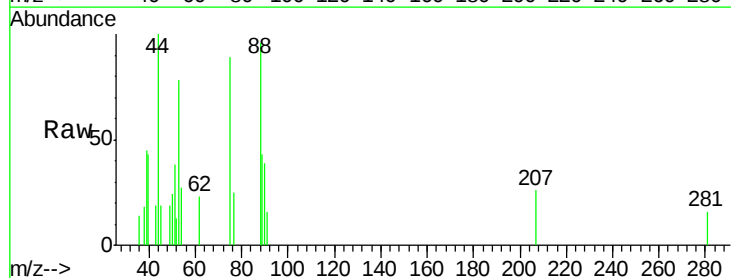
Tgt Ion: 75 Resp: 1679

Ion Ratio Lower Upper

75 100

53 108.0 73.9 110.9

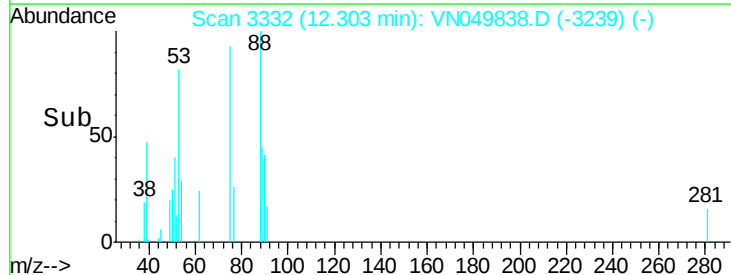
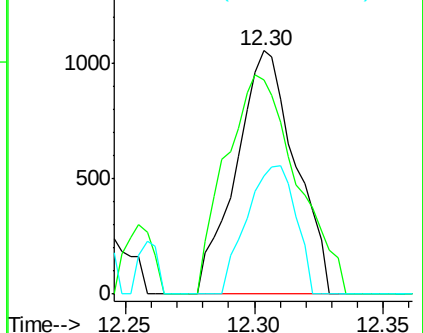
89 43.7 35.9 53.9

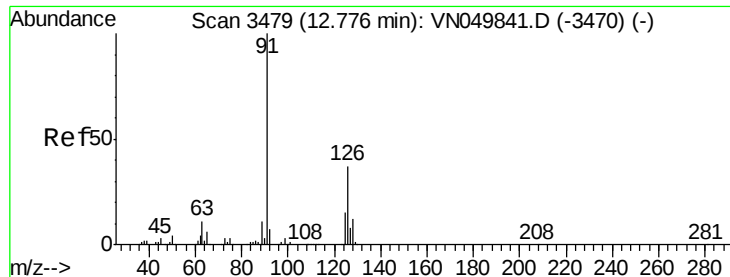


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.89 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 91 Resp: 14740

Ion Ratio Lower Upper

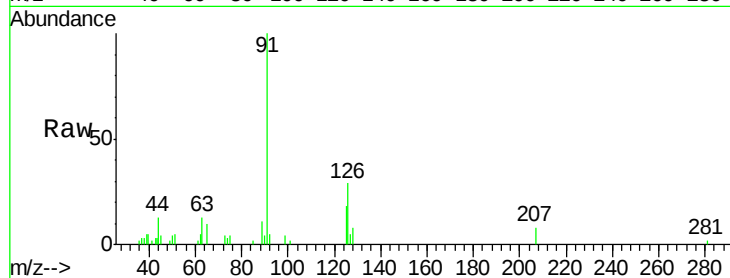
91 100

126 33.3 17.2 51.6

Manual Integrations
APPROVED

MMDadoda

7/18/2018 11:59:07 AM



Abundance Ion 91.00 (90.70 to 91.70): VN049838.D (-3470) (-)

Ion 125.90 (125.60 to 126.60): VN049838.D (-3470) (-)

12.78

10000

8000

6000

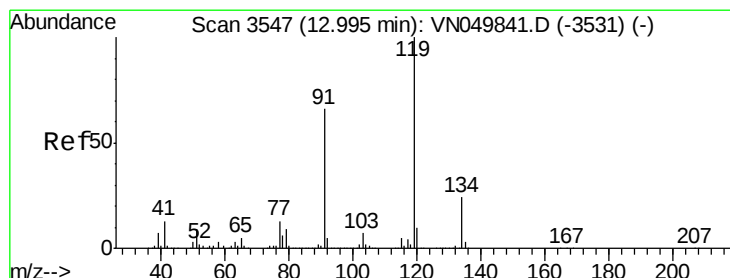
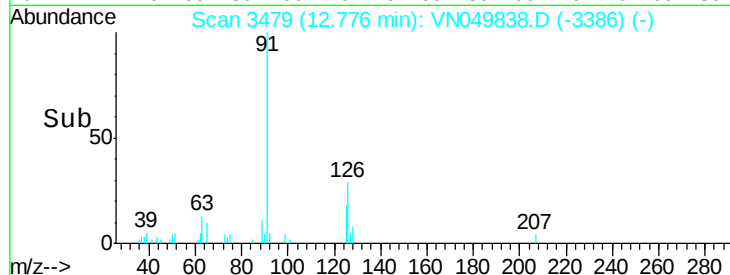
4000

2000

0

12.75 12.80

Time-->



#83

tert-Butylbenzene

Concen: 0.85 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

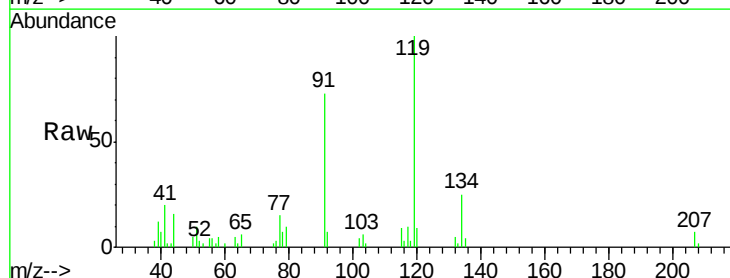
Tgt Ion: 119 Resp: 13929

Ion Ratio Lower Upper

119 100

91 71.4 32.0 96.2

134 25.7 12.8 38.4



Abundance Ion 119.00 (118.70 to 119.70): VN049838.D (-3531) (-)

Ion 91.00 (90.70 to 91.70): VN049838.D (-3531) (-)

Ion 134.00 (133.70 to 134.70): VN049838.D (-3531) (-)

12.99

10000

8000

6000

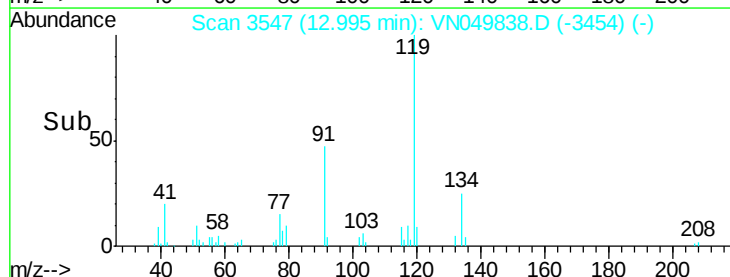
4000

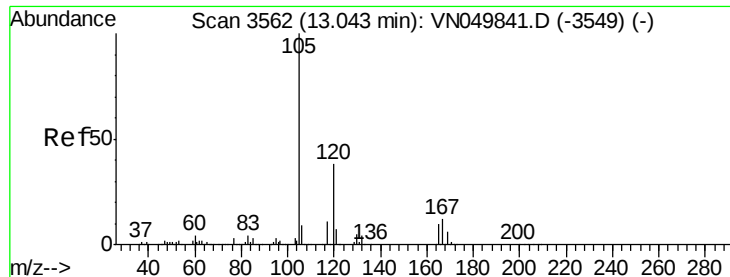
2000

0

12.95 13.00

Time-->





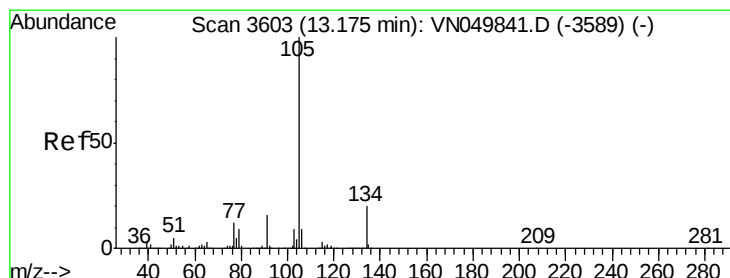
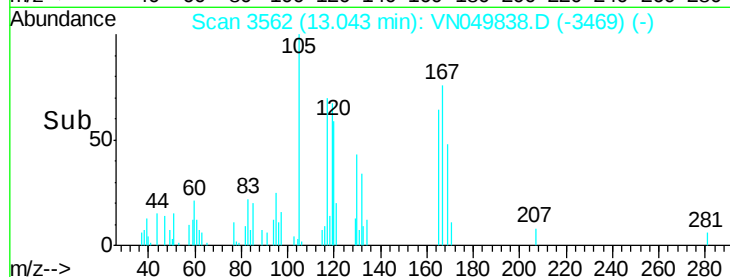
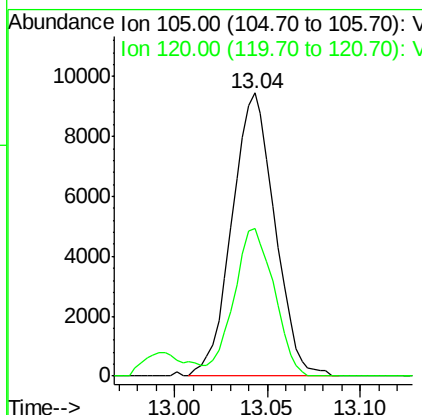
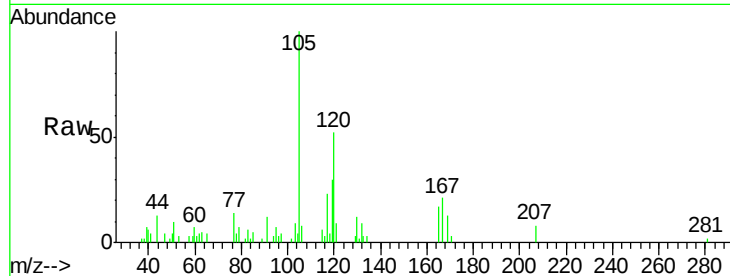
#84
 1,2,4-Trimethylbenzene
 Concen: 0.80 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

Tot Ion:105 Resp: 15118
 Ion Ratio Lower Upper
 105 100
 120 49.0 22.7 68.1

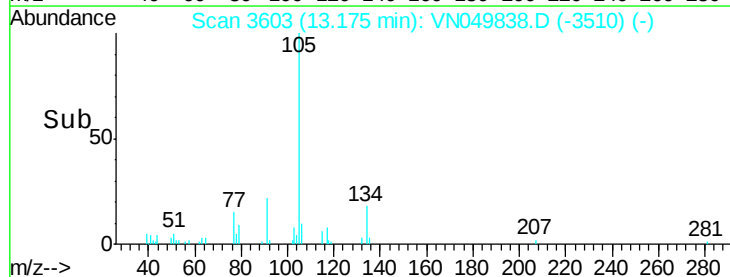
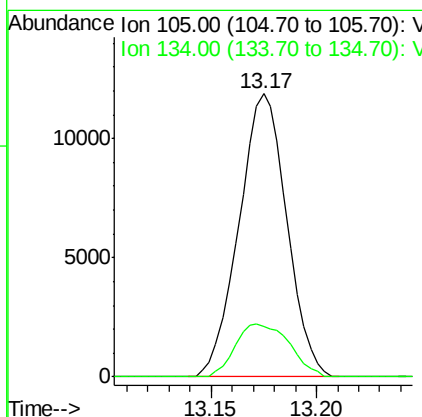
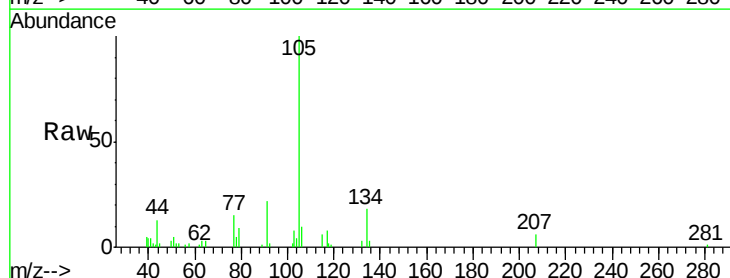
Manual Integrations
 APPROVED

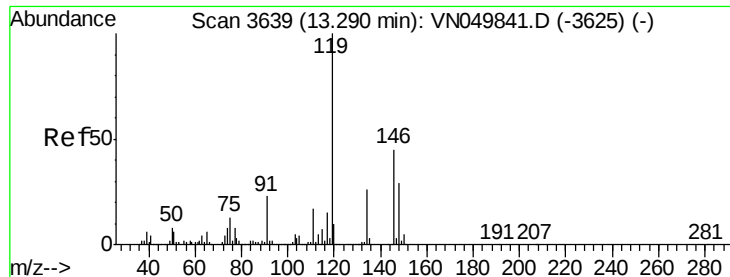
MMDadoda
 7/18/2018 11:59:07 AM



#85
 sec-Butylbenzene
 Concen: 0.86 ug/l
 RT: 13.17 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Tgt Ion:105 Resp: 18684
 Ion Ratio Lower Upper
 105 100
 134 21.1 10.1 30.1





#86

p-Isopropyltoluene

Concen: 0.79 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

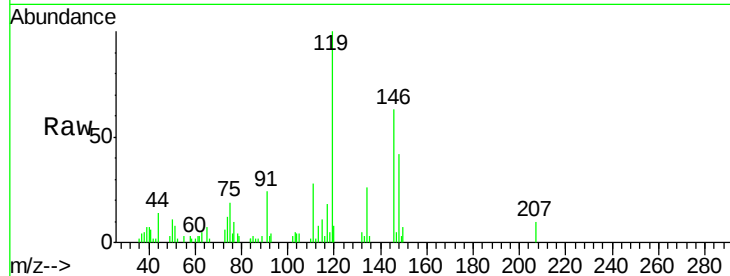
ClientSampleId :

VSTDIC001

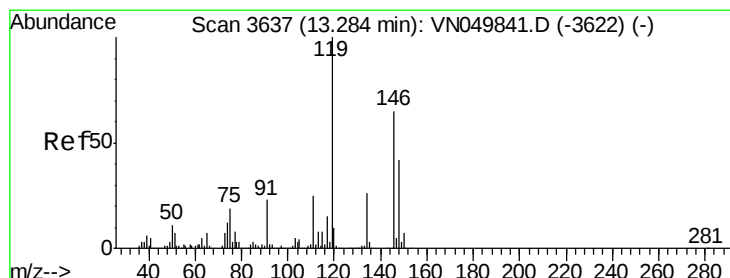
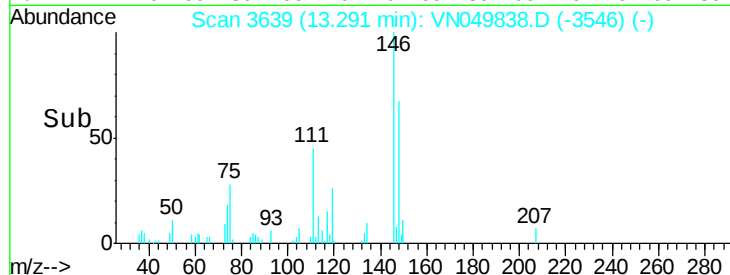
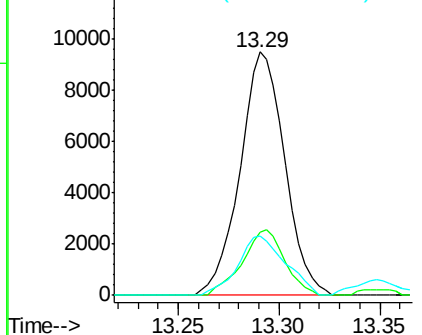
Tot Ion:	119	Resp:	14708
Ion Ratio	Lower	Upper	
119	100		
134	25.6	13.3	39.9
91	25.9	11.4	34.1

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#87

1,3-Dichlorobenzene

Concen: 0.97 ug/l

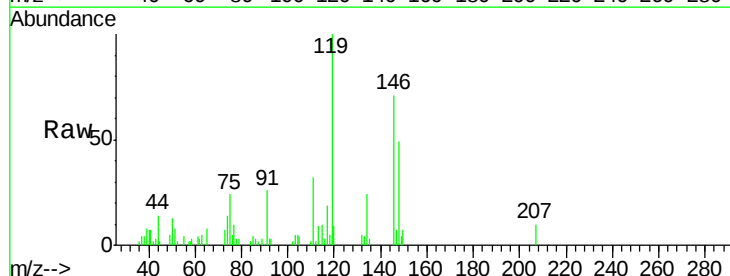
RT: 13.29 min Scan# 3638

Delta R.T. 0.00 min

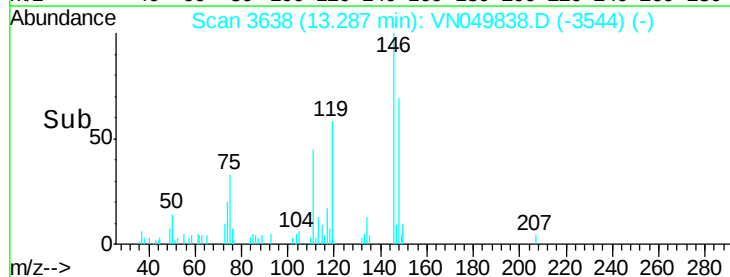
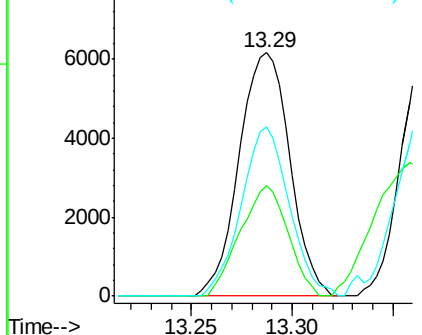
Lab File: VN049838.D

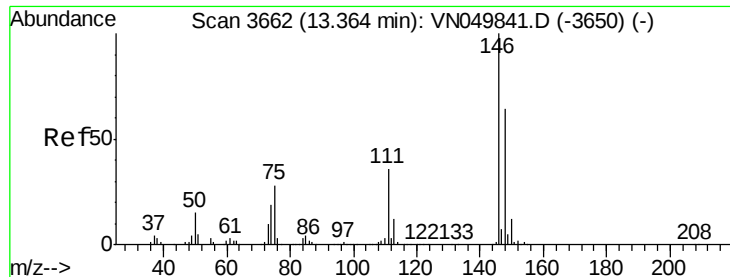
Acq: 17 Jul 2018 10:37

Tgt Ion:	146	Resp:	10858
Ion Ratio	Lower	Upper	
146	100		
111	42.7	19.0	57.0
148	65.7	32.5	97.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 0.95 ug/l m

RT: 13.37 min Scan# 3663

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

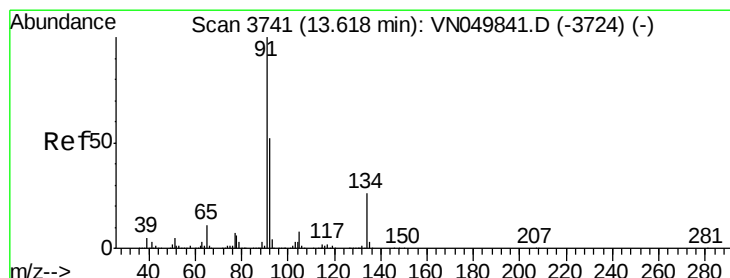
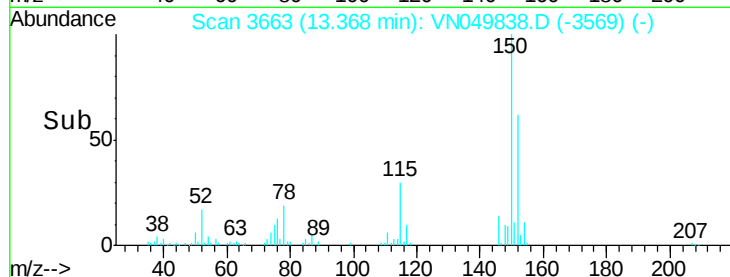
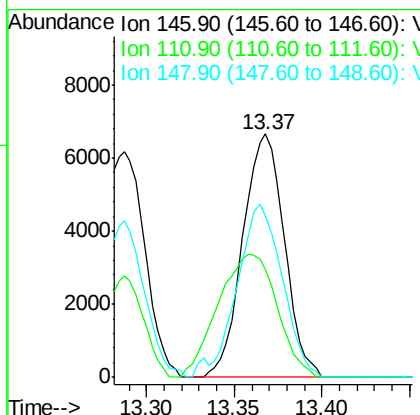
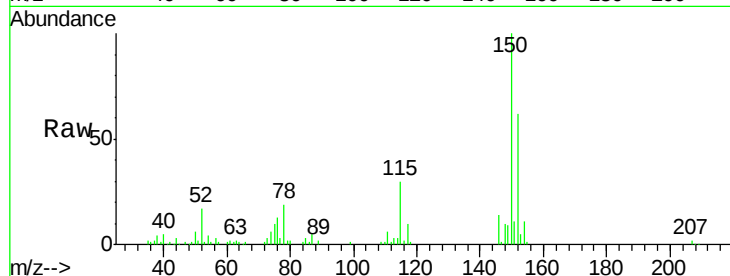
ClientSampleId :

VSTDIC001

Tot Ion:	146	Resp:	10899
Ion	Ratio	Lower	Upper
146	100		
111	42.5	18.9	56.5
148	65.5	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



#89

n-Butylbenzene

Concen: 0.80 ug/l

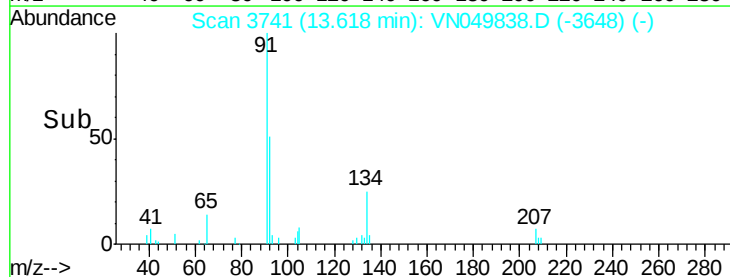
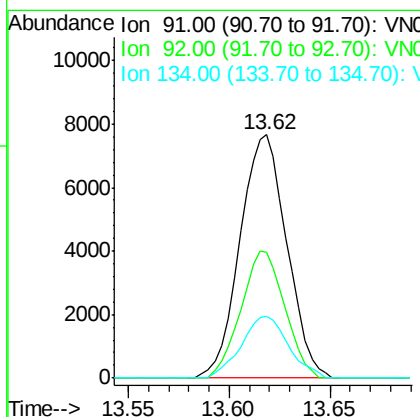
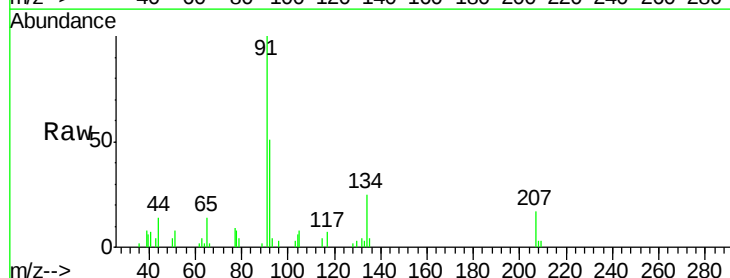
RT: 13.62 min Scan# 3741

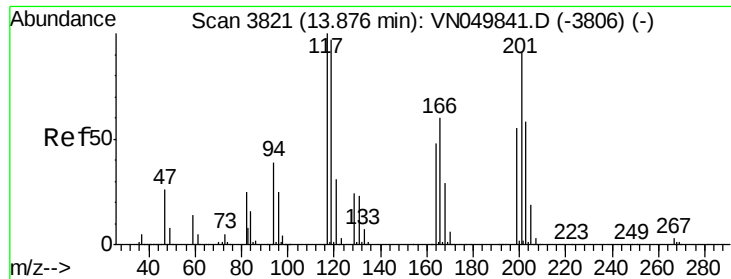
Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Tgt Ion:	91	Resp:	12445
Ion	Ratio	Lower	Upper
91	100		
92	48.8	25.8	77.3
134	25.5	13.0	38.9





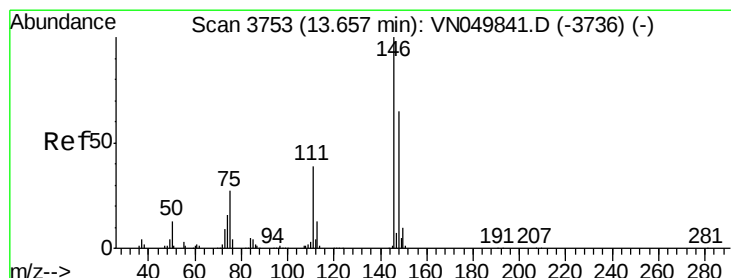
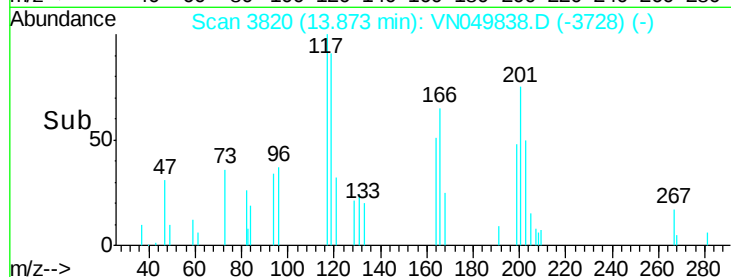
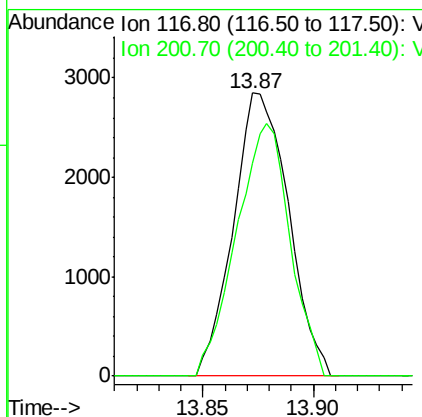
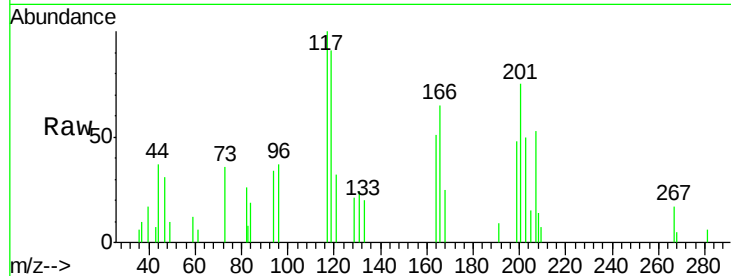
#90
Hexachloroethane
Concen: 1.26 ug/l
RT: 13.87 min Scan# 3820
Delta R.T. -0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion:117 Resp: 4953
Ion Ratio Lower Upper
117 100
201 86.5 45.3 135.8

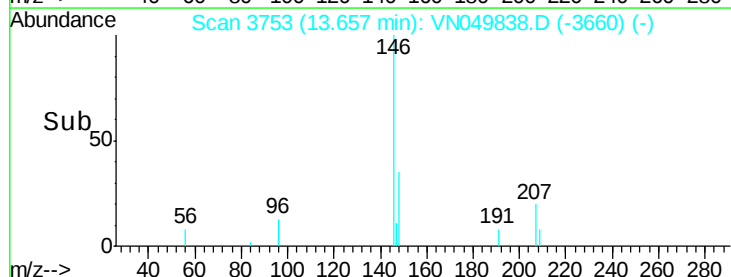
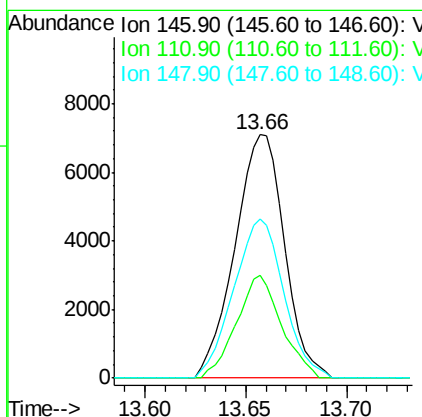
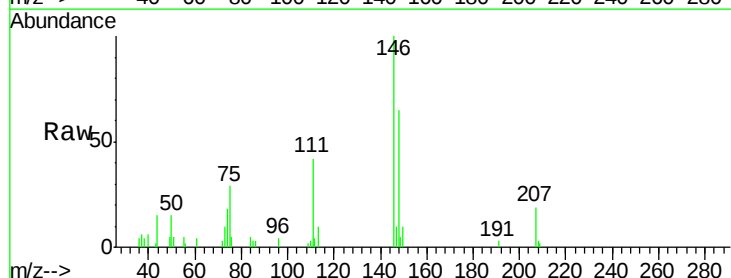
Manual Integrations
APPROVED

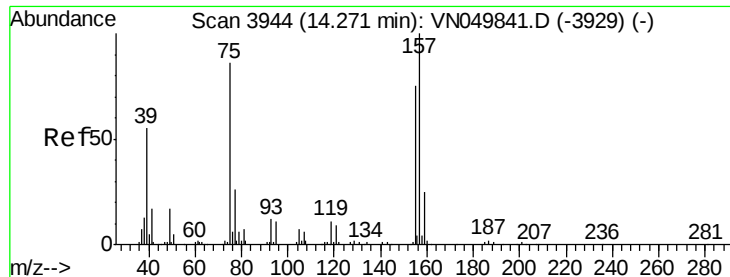
MMDadoda
7/18/2018 11:59:07 AM



#91
1,2-Dichlorobenzene
Concen: 1.10 ug/l
RT: 13.66 min Scan# 3753
Delta R.T. 0.00 min
Lab File: VN049838.D
Acq: 17 Jul 2018 10:37

Tgt Ion:146 Resp: 12194
Ion Ratio Lower Upper
146 100
111 38.3 19.7 59.1
148 66.2 32.0 96.2





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.18 ug/l

RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 75 Resp: 1570

Ion Ratio Lower Upper

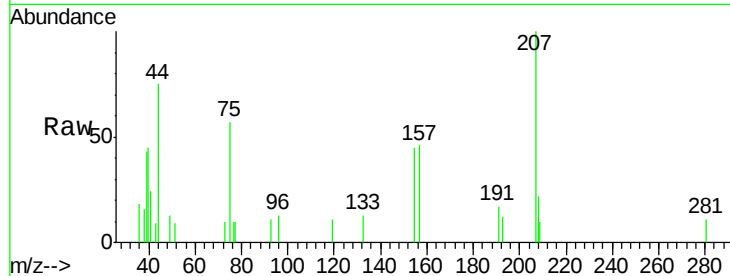
75 100

155 69.7 45.7 137.1

157 78.5 56.9 170.7

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



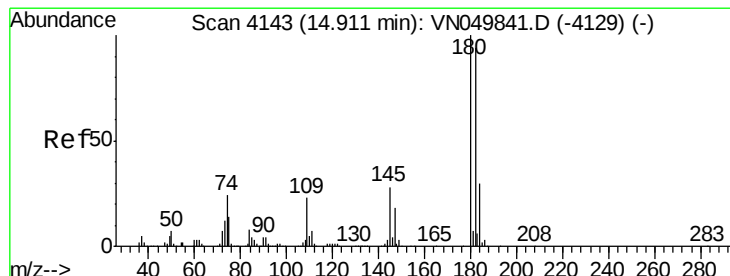
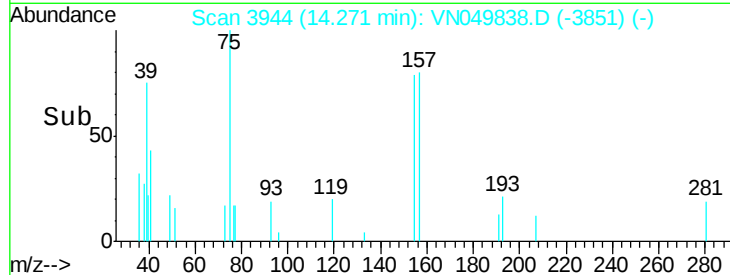
Abundance Ion 74.90 (74.60 to 75.60): VN049838.D (-3851) (-)

Ion 154.80 (154.50 to 155.50): VN049838.D (-3851) (-)

Ion 156.80 (156.50 to 157.50): VN049838.D (-3851) (-)

Time-->

14.25 14.30



#93

1,2,4-Trichlorobenzene

Concen: 0.65 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

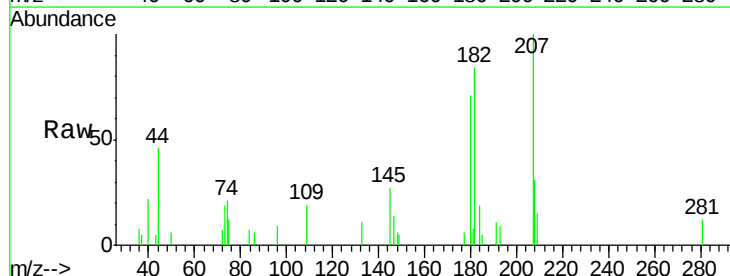
Tgt Ion: 180 Resp: 3674

Ion Ratio Lower Upper

180 100

182 110.3 47.3 141.9

145 32.9 14.4 43.0



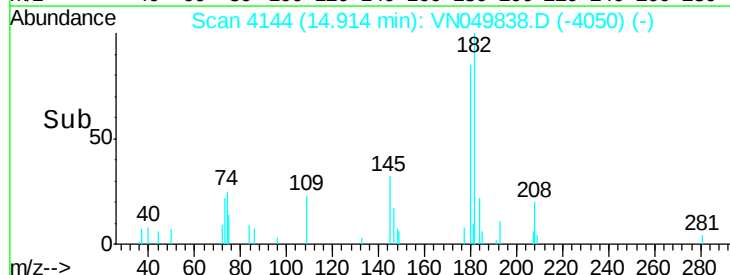
Abundance Ion 179.80 (179.50 to 180.50): VN049838.D (-4050) (-)

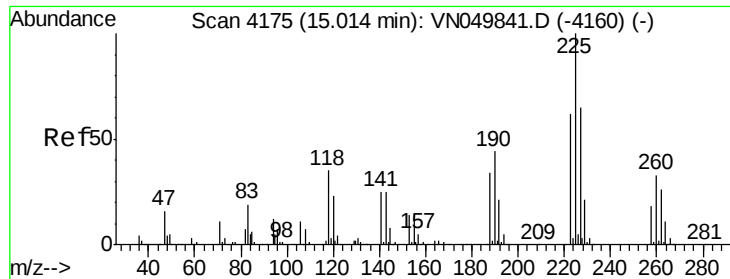
Ion 181.80 (181.50 to 182.50): VN049838.D (-4050) (-)

Ion 144.80 (144.50 to 145.50): VN049838.D (-4050) (-)

Time-->

14.90 14.95





#94

Hexachlorobutadiene

Concen: 1.15 ug/l

RT: 15.01 min Scan# 4175

Delta R.T. 0.00 min

Lab File: VN049838.D

Acq: 17 Jul 2018 10:37

Instrument :

MSVOA_N

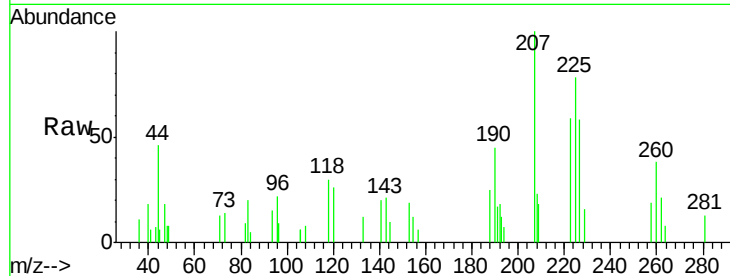
ClientSampled :

VSTDIC001

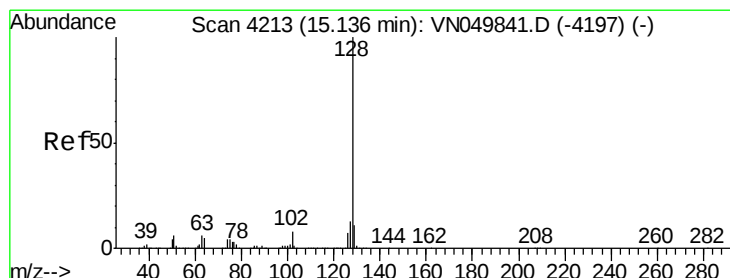
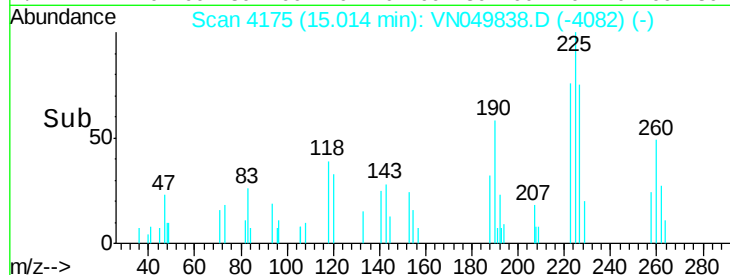
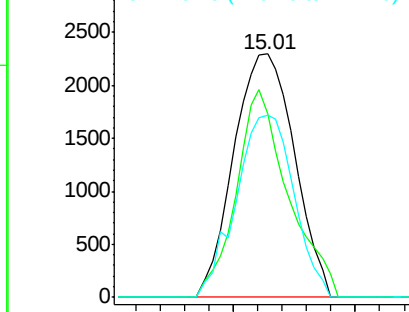
Tot Ion:	225	Resp:	3957
Ion Ratio	Lower	Upper	
225	100		
223	73.1	30.9	92.7
227	71.3	31.8	95.4

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:07 AM



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.56 ug/l

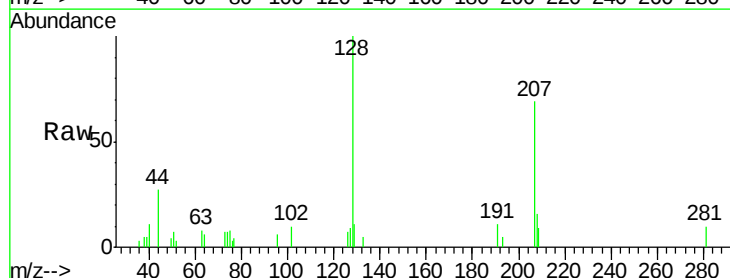
RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

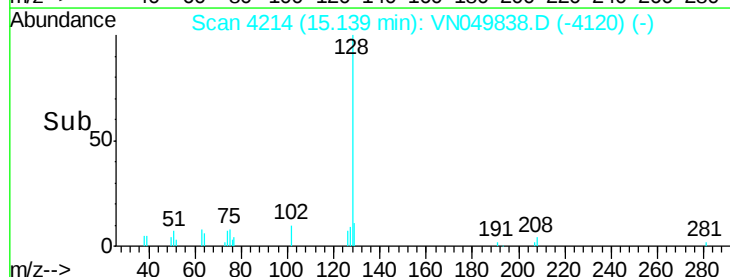
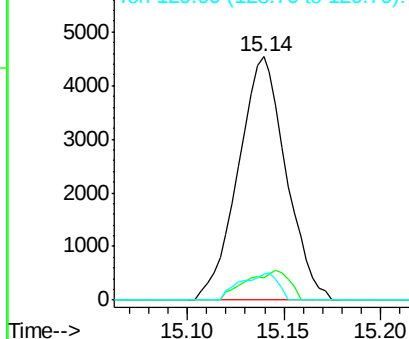
Lab File: VN049838.D

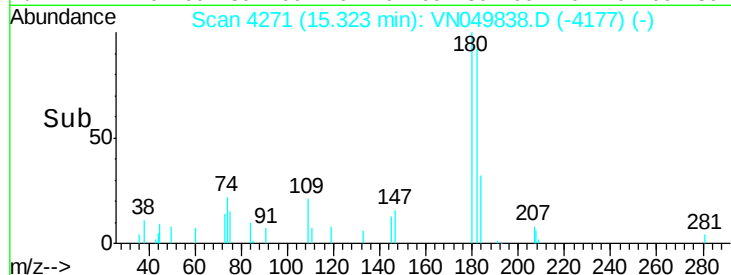
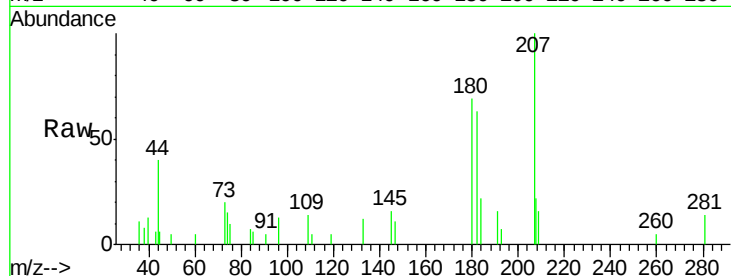
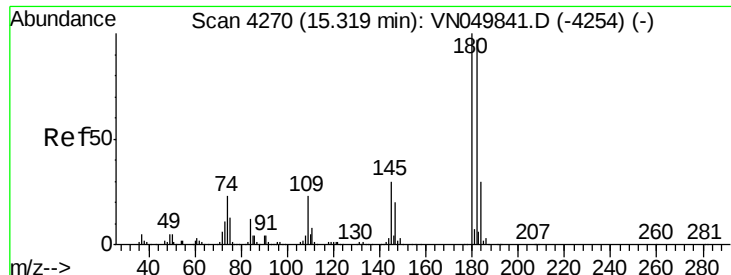
Acq: 17 Jul 2018 10:37

Tgt Ion:	128	Resp:	7815
Ion Ratio	Lower	Upper	
128	100		
127	10.9	10.4	15.6
129	8.8	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.75 ug/l
 RT: 15.32 min Scan# 4271
 Delta R.T. 0.00 min
 Lab File: VN049838.D
 Acq: 17 Jul 2018 10:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.4	47.4	142.2
145	18.2	15.2	45.6

Manual Integrations
 APPROVED

MMDadoda
 7/18/2018 11:59:07 AM

