

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070518\
 Data File : VN049714.D
 Acq On : 5 Jul 2018 15:41
 Operator : MD\SY
 Sample : VN0705WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0705WBSD01

Manual Integrations
 APPROVED

sam
 7/6/2018 4:26:02 PM

Quant Time: Jul 05 16:46:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1235212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1838255	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1628008	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	867845	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	735815	45.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.22%	
35) Dibromofluoromethane	7.59	113	628058	45.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.40%	
50) Toluene-d8	10.09	98	2354108	43.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.52%	
62) 4-Bromofluorobenzene	12.40	95	809446	44.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	253324	18.198	ug/l	98
3) Chloromethane	2.06	50	326584	18.784	ug/l	99
4) Vinyl Chloride	2.18	62	366270	19.615	ug/l	99
5) Bromomethane	2.56	94	164092	16.729	ug/l	97
6) Chloroethane	2.70	64	230969	19.542	ug/l	99
7) Trichlorofluoromethane	3.01	101	467149	21.901	ug/l	99
8) Diethyl Ether	3.41	74	173100	20.022	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	303240	19.760	ug/l	99
10) Methyl Iodide	3.94	142	349163	18.180	ug/l	99
11) Tert butyl alcohol	4.80	59	116627	124.595	ug/l #	90
12) 1,1-Dichloroethene	3.73	96	273697	18.865	ug/l	99
13) Acrolein	3.61	56	46259	52.907	ug/l	99
14) Allyl chloride	4.32	41	422649	21.209	ug/l	98
15) Acrylonitrile	5.00	53	537419	111.162	ug/l	98
16) Acetone	3.82	43	436296	129.327	ug/l	98
17) Carbon Disulfide	4.05	76	780273	19.320	ug/l	99
18) Methyl Acetate	4.33	43	313912	18.263	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	779328	20.838	ug/l	99
20) Methylene Chloride	4.55	84	329112	19.593	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	288683	19.334	ug/l	100
22) Diisopropyl ether	5.96	45	922372	20.458	ug/l	96
23) Vinyl Acetate	5.90	43	2970662	101.603	ug/l	100
24) 1,1-Dichloroethane	5.85	63	562333	19.798	ug/l	100
25) 2-Butanone	6.84	43	648245	119.707	ug/l	96
26) 2,2-Dichloropropane	6.82	77	472855	20.044	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	324375	19.448	ug/l	99
28) Bromochloromethane	7.20	49	259231	21.504	ug/l	98
29) Tetrahydrofuran	7.22	42	414047	119.961	ug/l	100
30) Chloroform	7.37	83	577967	19.961	ug/l	100
31) Cyclohexane	7.65	56	486963	19.549	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	495208	20.201	ug/l	100
36) 1,1-Dichloropropene	7.79	75	419566	20.287	ug/l	100
37) Ethyl Acetate	6.94	43	285715	23.686	ug/l	98
38) Carbon Tetrachloride	7.77	117	395272	19.648	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070518\
 Data File : VN049714.D
 Acq On : 5 Jul 2018 15:41
 Operator : MD\SY
 Sample : VN0705WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0705WBSD01

Manual Integrations
 APPROVED

sam
 7/6/2018 4:26:02 PM

Quant Time: Jul 05 16:46:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	431209	19.017	ug/l	96
40) Benzene	8.04	78	1284056	20.333	ug/l	100
41) Methacrylonitrile	7.18	41	139448	20.508	ug/l	94
42) 1,2-Dichloroethane	8.13	62	412000	20.443	ug/l	99
43) Isopropyl Acetate	8.17	43	548783	22.595	ug/l	98
44) Trichloroethene	8.84	130	370915	19.476	ug/l	96
45) 1,2-Dichloropropane	9.12	63	341791	20.949	ug/l	100
46) Dibromomethane	9.21	93	209115	21.186	ug/l	98
47) Bromodichloromethane	9.41	83	427812	20.360	ug/l	98
48) Methyl methacrylate	9.20	41	243189	22.687	ug/l	99
49) 1,4-Dioxane	9.20	88	66834	463.769	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	1422503	120.277	ug/l	99
52) Toluene	10.16	92	781431	20.482	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	400927	19.927	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	477392	20.302	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	298227	20.994	ug/l	100
56) Ethyl methacrylate	10.43	69	365365	21.942	ug/l	98
57) 1,3-Dichloropropane	10.71	76	492311	21.373	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	731168	91.427	ug/l	100
59) 2-Hexanone	10.76	43	970194	124.056	ug/l	98
60) Dibromochloromethane	10.90	129	326600	21.272	ug/l	100
61) 1,2-Dibromoethane	11.01	107	287947	21.155	ug/l	100
64) Tetrachloroethene	10.63	164	428054	19.418	ug/l	98
65) Chlorobenzene	11.44	112	840484	19.790	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	310495	20.347	ug/l	100
67) Ethyl Benzene	11.51	91	1396289	19.889	ug/l	99
68) m/p-Xylenes	11.62	106	1113566	41.390	ug/l	100
69) o-Xylene	11.95	106	527730	20.488	ug/l	98
70) Styrene	11.97	104	853424	20.477	ug/l	99
71) Bromoform	12.13	173	216380	21.340	ug/l	# 99
73) Isopropylbenzene	12.25	105	1395894	20.193	ug/l	99
74) N-amyl acetate	12.07	43	411392	21.787	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	360072	24.365	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	349089m	25.081	ug/l	
77) Bromobenzene	12.53	156	365445	19.441	ug/l	98
78) n-propylbenzene	12.59	91	1614498	20.378	ug/l	100
79) 2-Chlorotoluene	12.68	91	983406	19.613	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1194489	20.794	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	79824	19.479	ug/l	99
82) 4-Chlorotoluene	12.78	91	987999	19.597	ug/l	100
83) tert-Butylbenzene	13.00	119	976538	19.789	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1213030	20.551	ug/l	100
85) sec-Butylbenzene	13.17	105	1332704	20.384	ug/l	100
86) p-Isopropyltoluene	13.29	119	1163589	20.547	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	642212	19.835	ug/l	98
88) 1,4-Dichlorobenzene	13.37	146	627395	19.799	ug/l	100
89) n-Butylbenzene	13.62	91	899993	18.563	ug/l	99
90) Hexachloroethane	13.88	117	123292	20.727	ug/l	100
91) 1,2-Dichlorobenzene	13.66	146	645490	20.455	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	59218	24.025	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070518\
Data File : VN049714.D
Acq On : 5 Jul 2018 15:41
Operator : MD\SY
Sample : VN0705WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

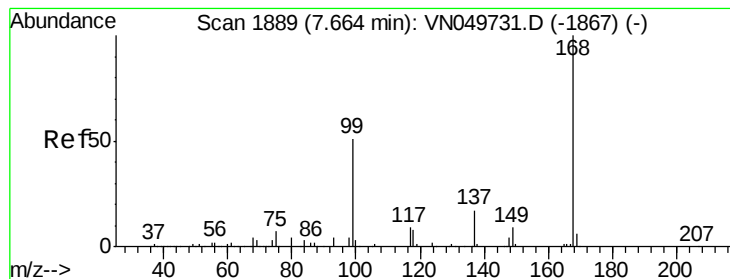
Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM

Quant Time: Jul 05 16:46:24 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	261382	17.964	ug/l	99
94) Hexachlorobutadiene	15.01	225	197566	20.099	ug/l	100
95) Naphthalene	15.14	128	540059	18.125	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	271875	18.962	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion:168 Resp: 1235212

Ion Ratio Lower Upper

168 100

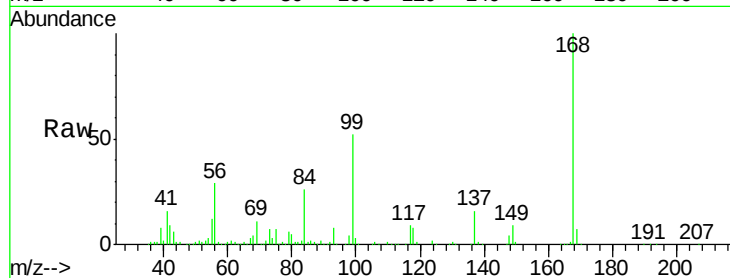
99 51.4 40.6 61.0

Manual Integrations

APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

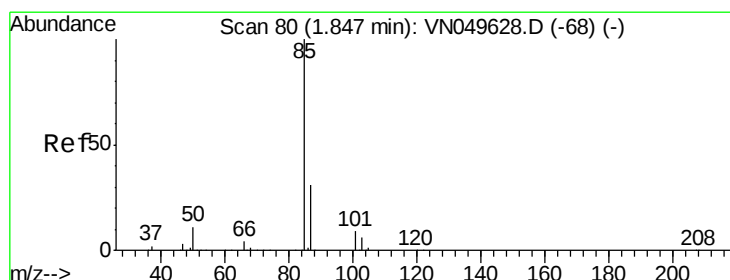
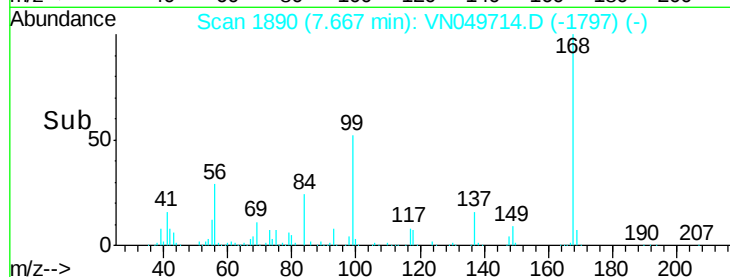
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.198 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN049714.D

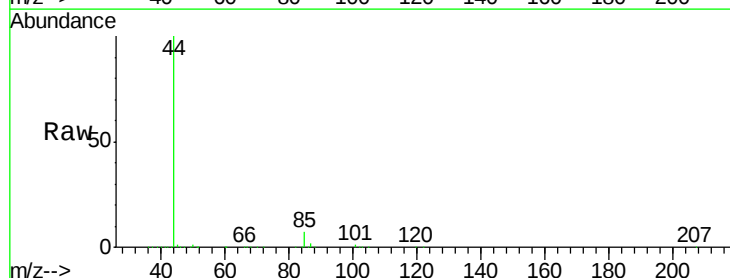
Acq: 5 Jul 2018 15:41

Tgt Ion: 85 Resp: 253324

Ion Ratio Lower Upper

85 100

87 31.6 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

200000

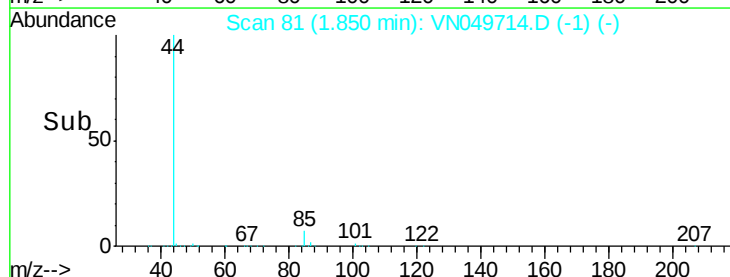
150000

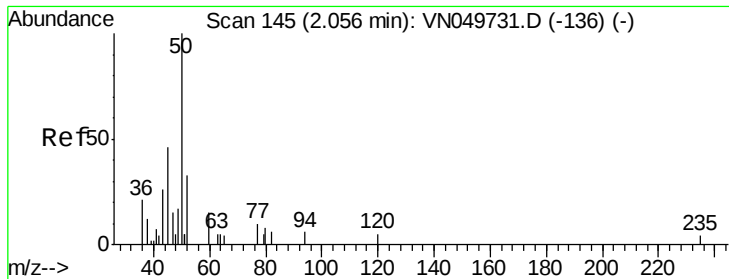
100000

50000

0

Time-->





#3

Chloromethane

Concen: 18.784 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion: 50 Resp: 326584

Ion Ratio Lower Upper

50 100

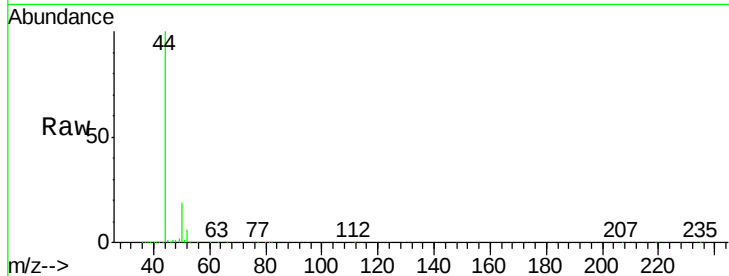
52 33.2 26.1 39.1

Manual Integrations

APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

250000

200000

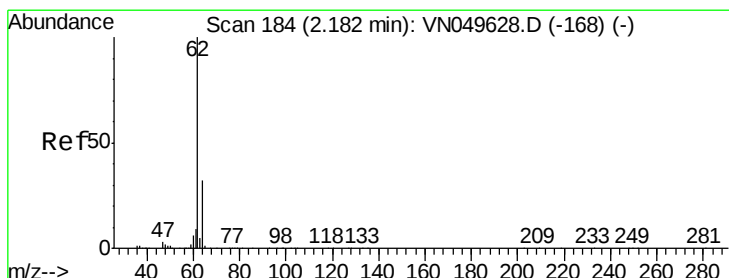
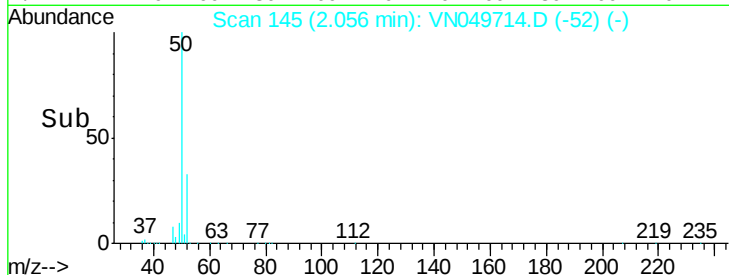
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 19.615 ug/l

RT: 2.18 min Scan# 183

Delta R.T. -0.00 min

Lab File: VN049714.D

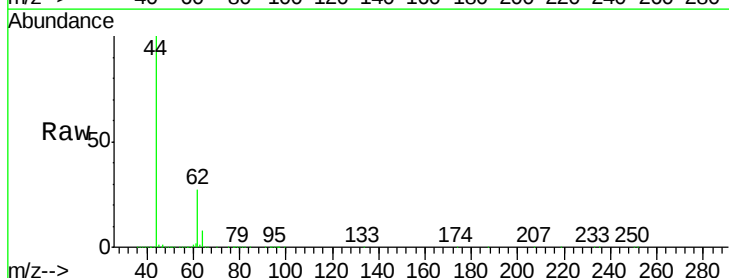
Acq: 5 Jul 2018 15:41

Tgt Ion: 62 Resp: 366270

Ion Ratio Lower Upper

62 100

64 31.1 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.18

250000

200000

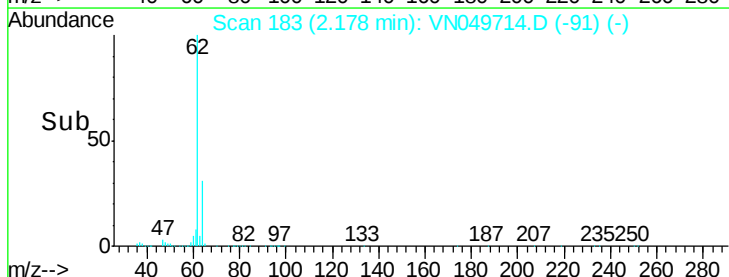
150000

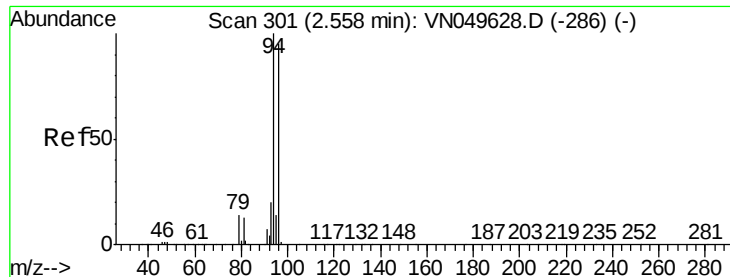
100000

50000

0

Time-->





#5

Bromomethane

Concen: 16.729 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion: 94 Resp: 164092

Ion Ratio Lower Upper

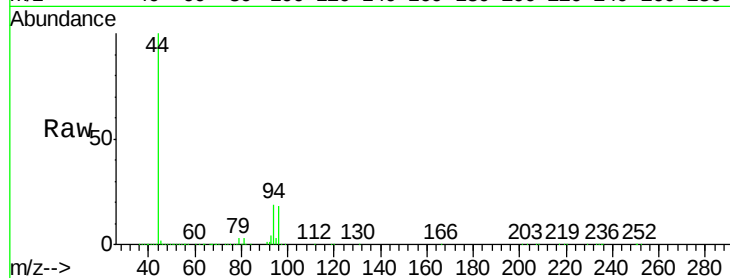
94 100

96 91.3 75.7 113.5

Manual Integrations
APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

100000

80000

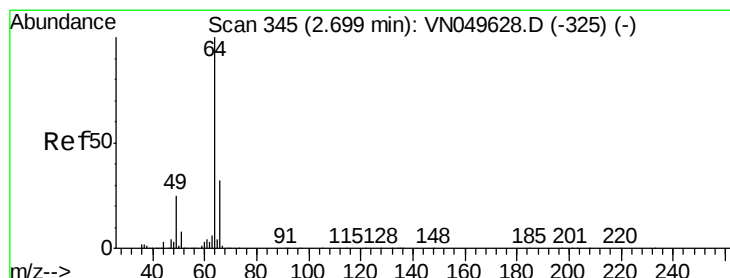
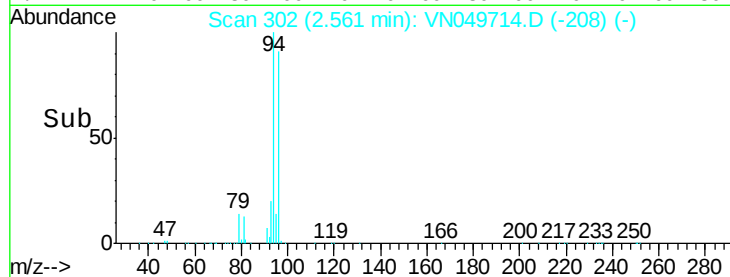
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 19.542 ug/l

RT: 2.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VN049714.D

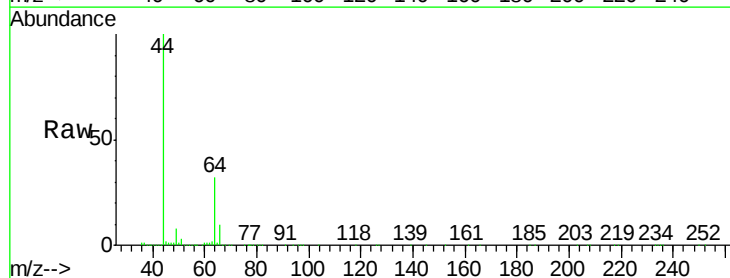
Acq: 5 Jul 2018 15:41

Tgt Ion: 64 Resp: 230969

Ion Ratio Lower Upper

64 100

66 31.3 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

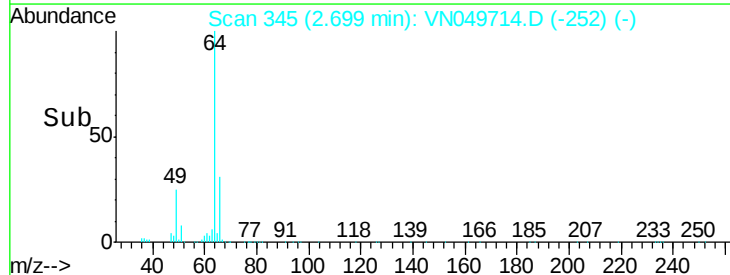
2.70

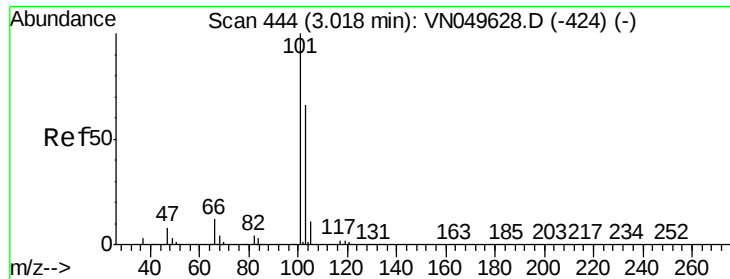
100000

50000

0

Time-->





#7

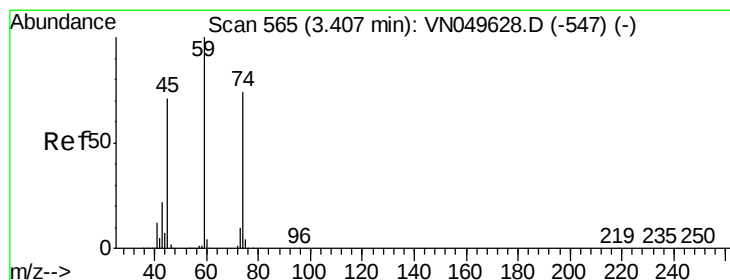
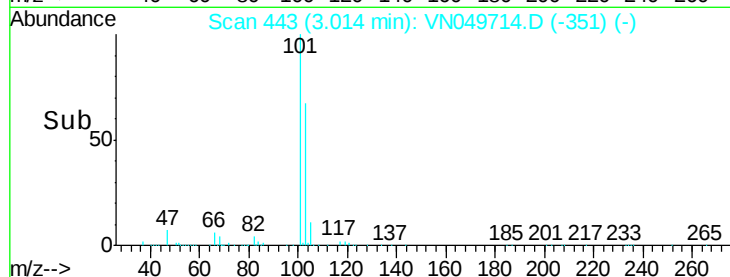
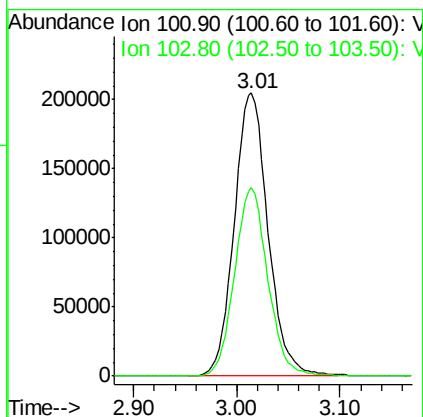
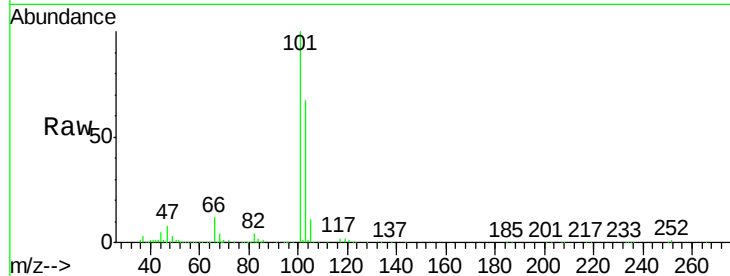
Trichlorofluoromethane
Concen: 21.901 ug/l
RT: 3.01 min Scan# 443
Delta R.T. -0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.7	52.8	79.2

Manual Integrations
APPROVED

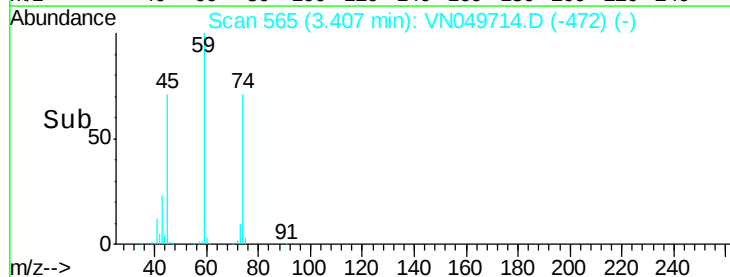
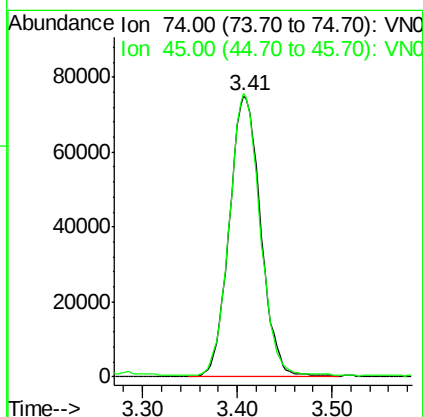
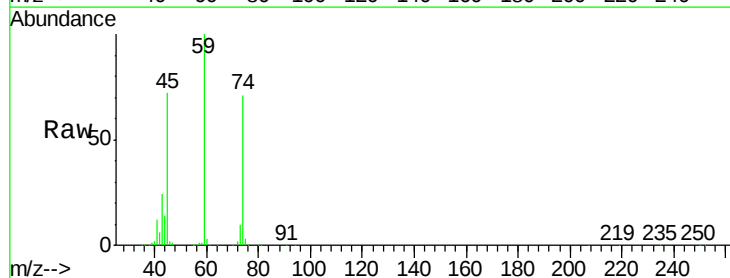
sam
7/6/2018 4:26:02 PM

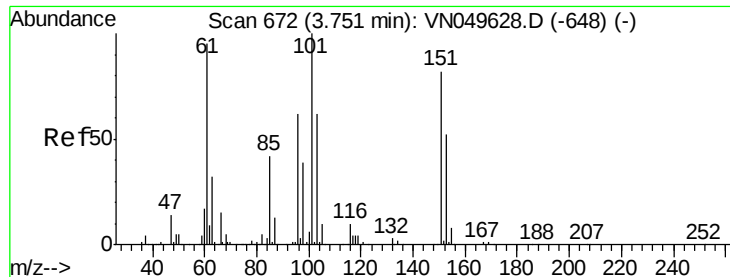


#8

Diethyl Ether
Concen: 20.022 ug/l
RT: 3.41 min Scan# 565
Delta R.T. -0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.7	48.4	145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.760 ug/l

RT: 3.75 min Scan# 672

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

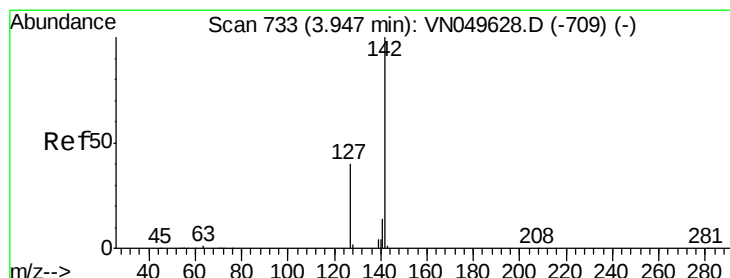
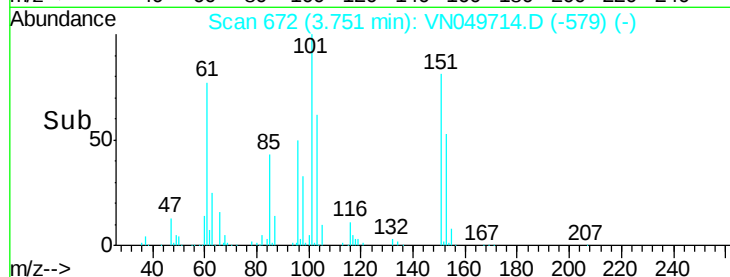
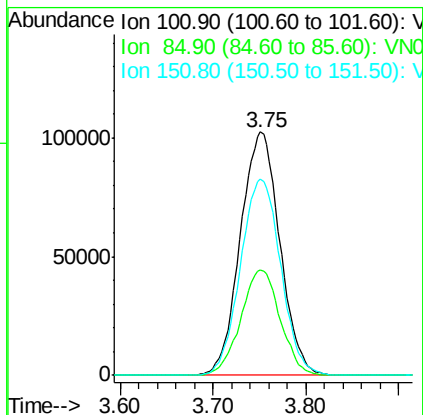
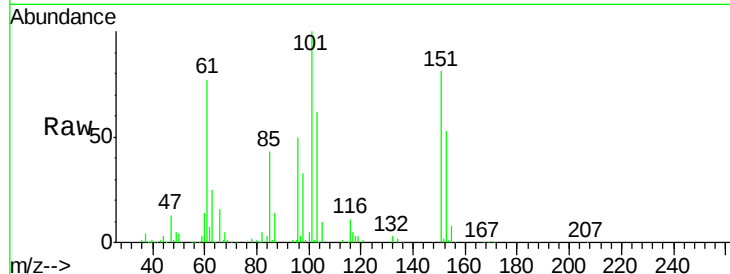
ClientSampleId :

VN0705WBSD01

Tot Ion:	101	Resp:	303240
Ion Ratio	Lower	Upper	
101	100		
85	43.3	34.4	51.6
151	82.2	66.2	99.4

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#10

Methyl Iodide

Concen: 18.180 ug/l

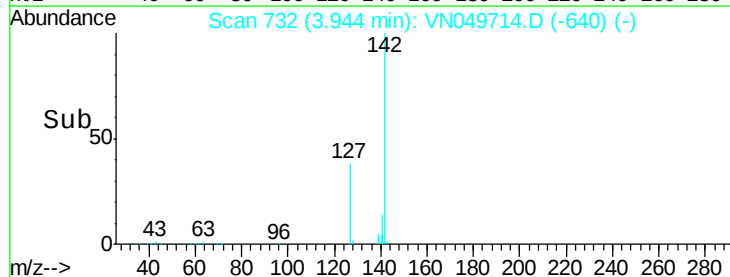
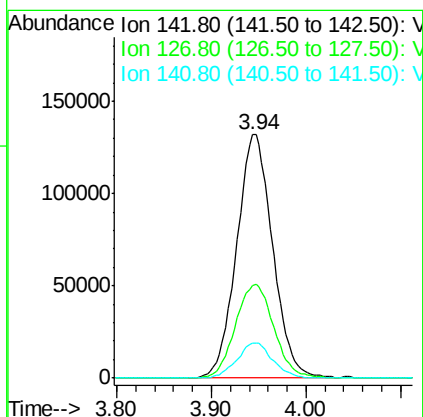
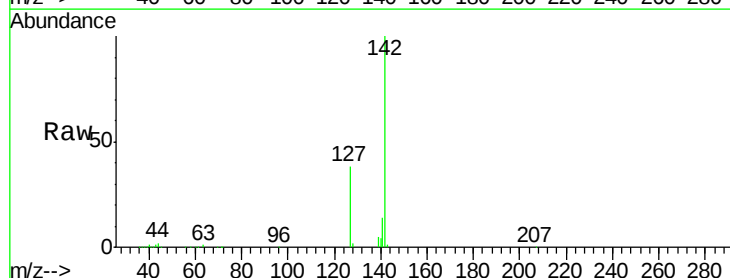
RT: 3.94 min Scan# 732

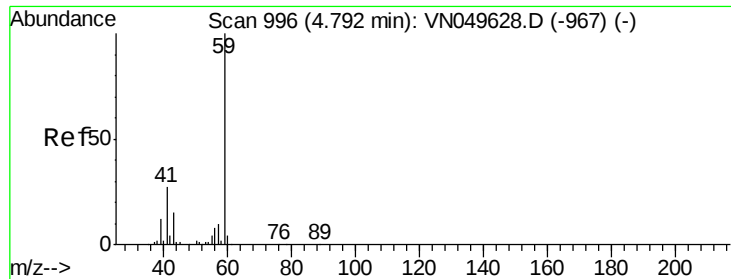
Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	142	Resp:	349163
Ion Ratio	Lower	Upper	
142	100		
127	41.3	32.5	48.7
141	14.3	11.1	16.7





#11

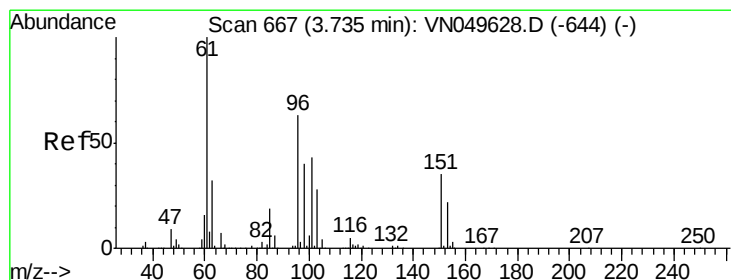
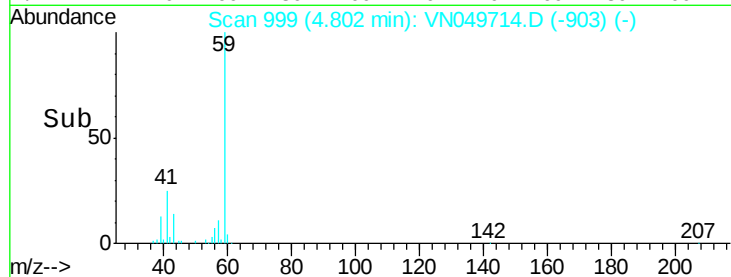
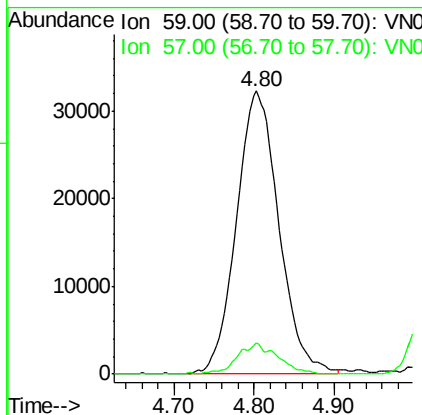
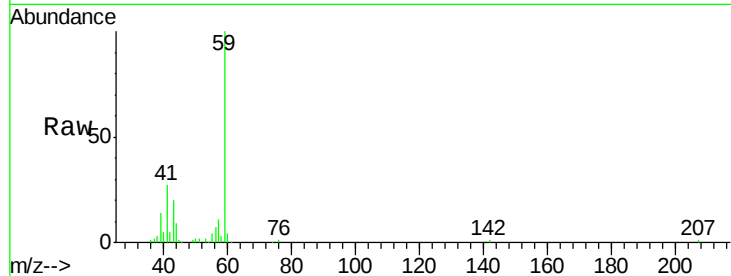
Tert butyl alcohol
 Concen: 124.595 ug/l
 RT: 4.80 min Scan# 999
 Delta R.T. 0.01 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.9	8.5	12.7#

Manual Integrations
 APPROVED

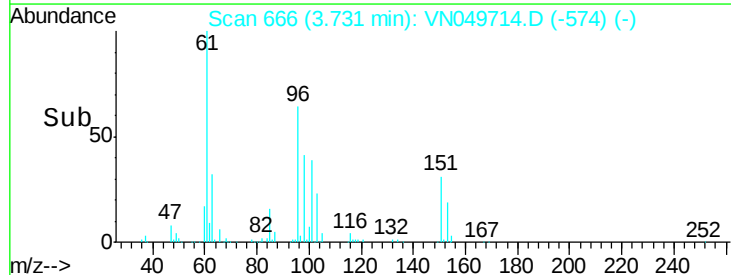
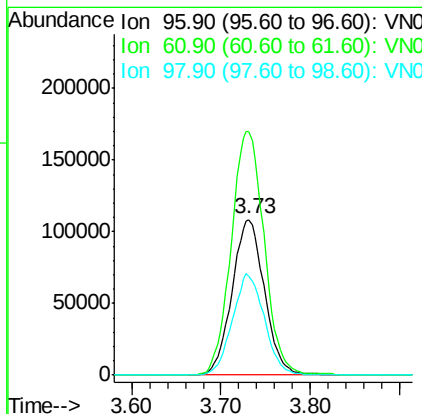
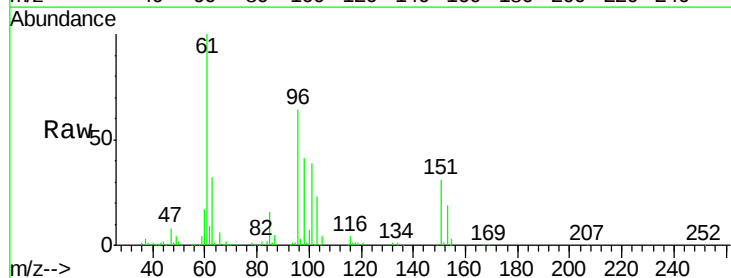
sam
 7/6/2018 4:26:02 PM

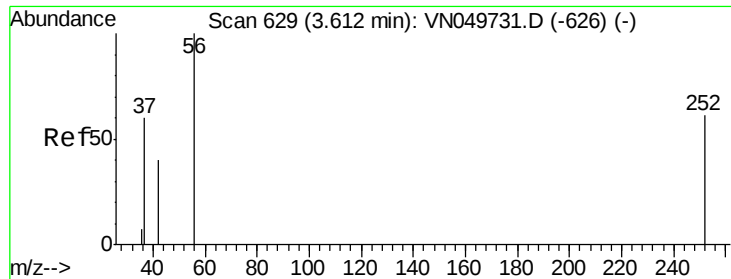


#12

1,1-Dichloroethene
 Concen: 18.865 ug/l
 RT: 3.73 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.2	126.5	189.7
98	63.8	51.0	76.6





#13

Acrolein

Concen: 52.907 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion: 56 Resp: 46259

Ion Ratio Lower Upper

56 100

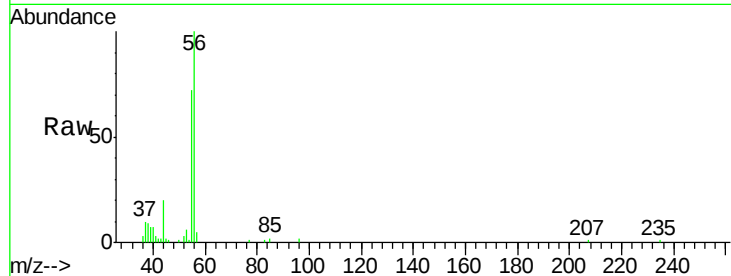
55 69.2 55.8 83.8

Manual Integrations

APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

20000

15000

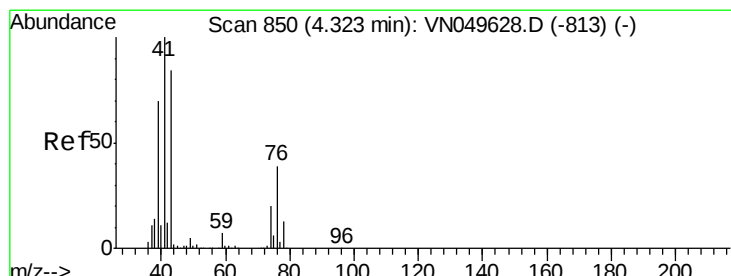
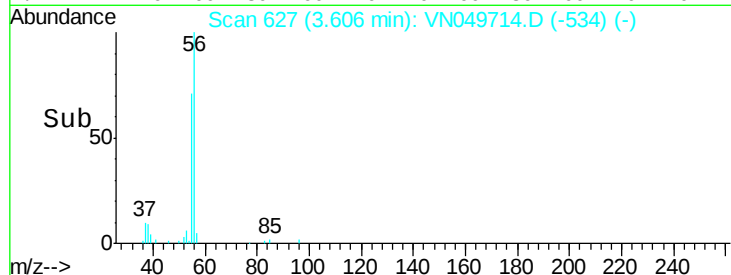
10000

5000

0

3.50 3.60 3.70

Time-->



#14

Allyl chloride

Concen: 21.209 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

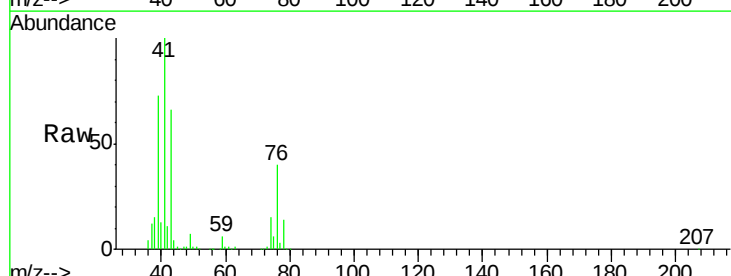
Tgt Ion: 41 Resp: 422649

Ion Ratio Lower Upper

41 100

39 68.2 53.2 79.8

76 37.4 29.0 43.6



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

150000

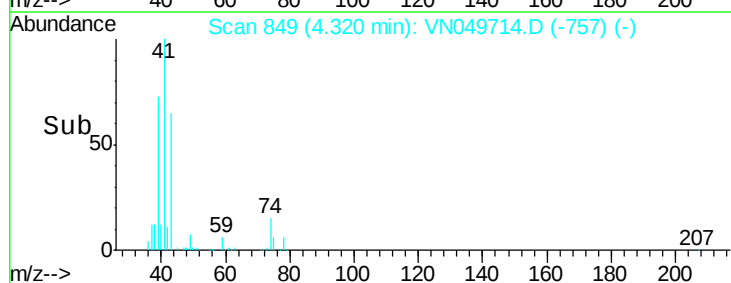
100000

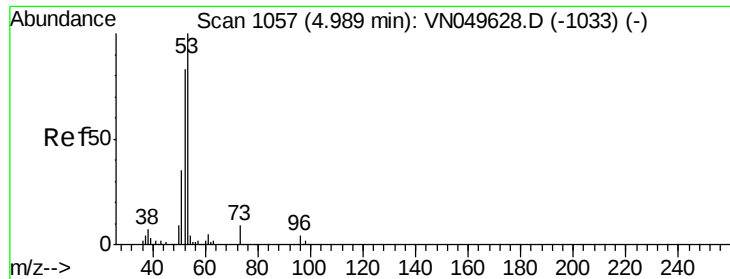
50000

0

4.20 4.30 4.40

Time-->





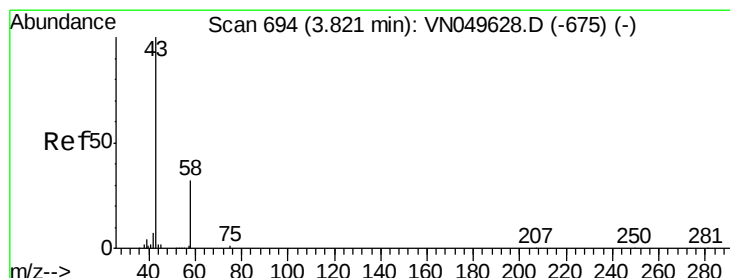
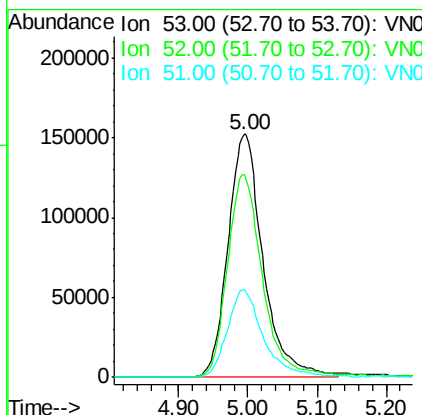
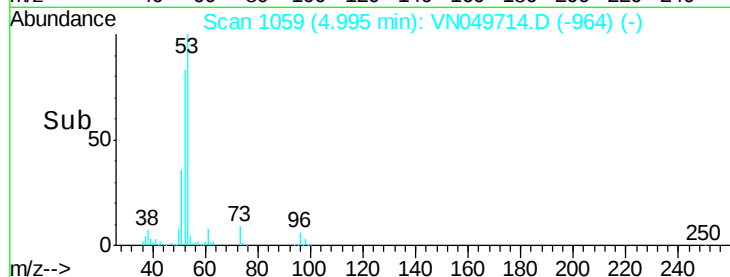
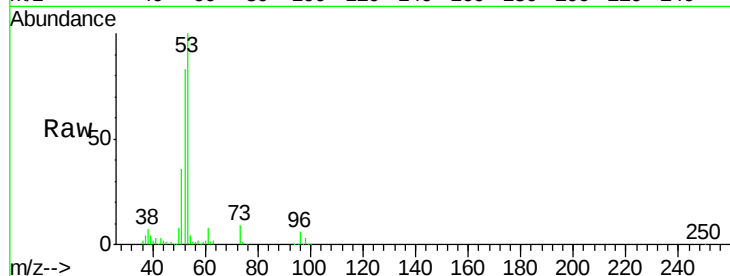
#15
 Acrylonitrile
 Concen: 111.162 ug/l
 RT: 5.00 min Scan# 1059
 Delta R.T. 0.01 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0705WBSD01

Tot Ion	53	Resp	537419
Ion	Ratio	Lower	Upper
53	100		
52	83.0	64.8	97.2
51	36.7	28.9	43.3

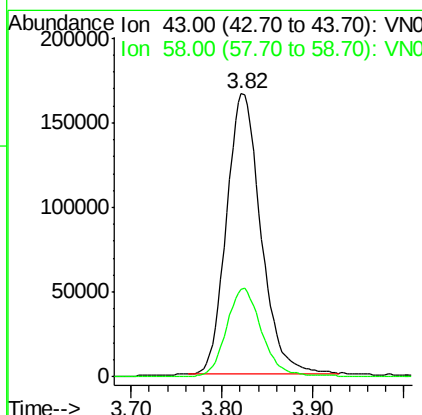
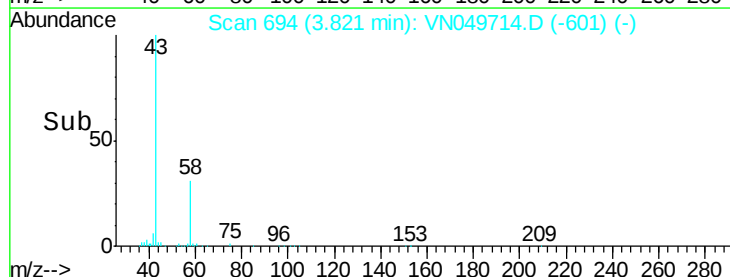
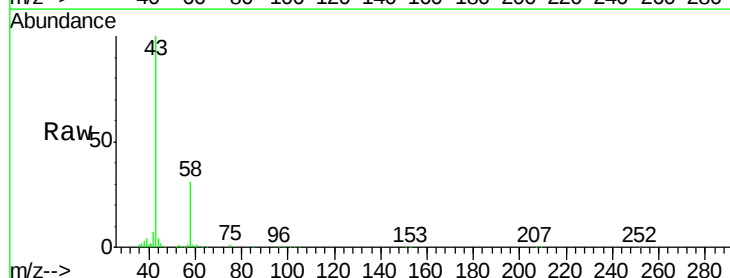
Manual Integrations
 APPROVED

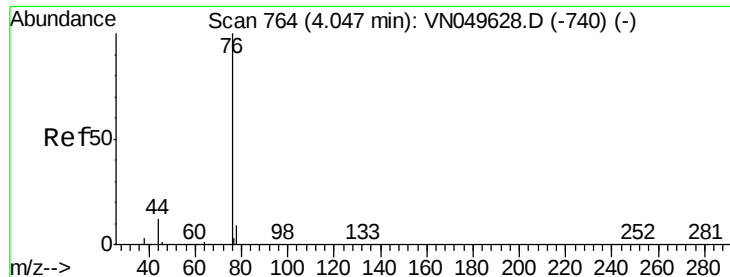
sam
 7/6/2018 4:26:02 PM



#16
 Acetone
 Concen: 129.327 ug/l
 RT: 3.82 min Scan# 694
 Delta R.T. 0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Tgt Ion	43	Resp	436296
Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.9	38.9





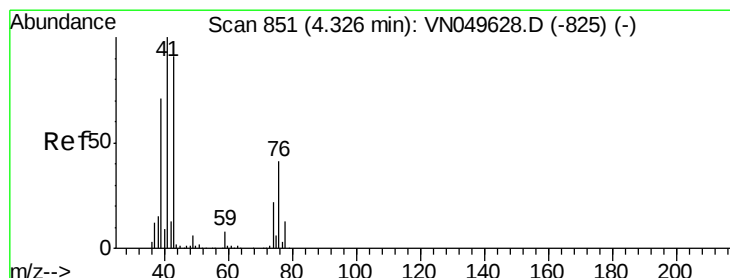
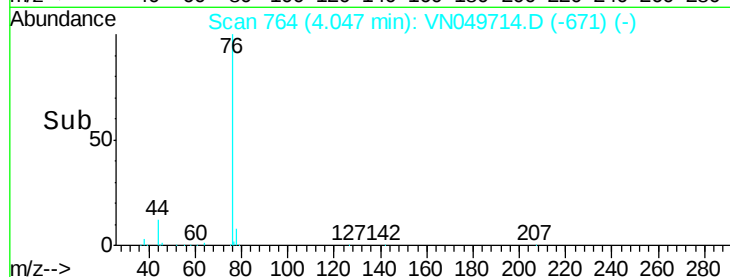
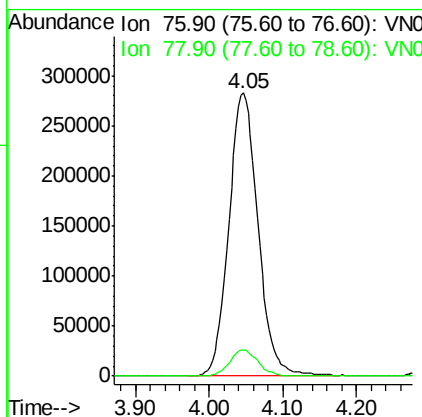
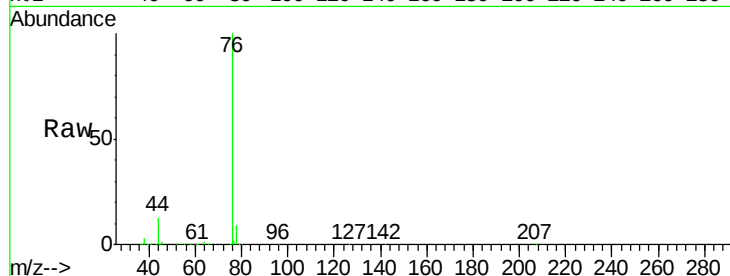
#17
Carbon Disulfide
Concen: 19.320 ug/l
RT: 4.05 min Scan# 764
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.1	10.7

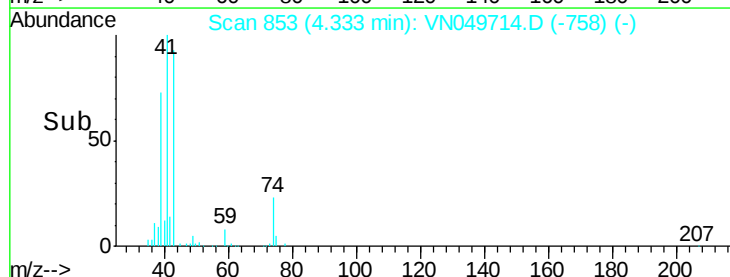
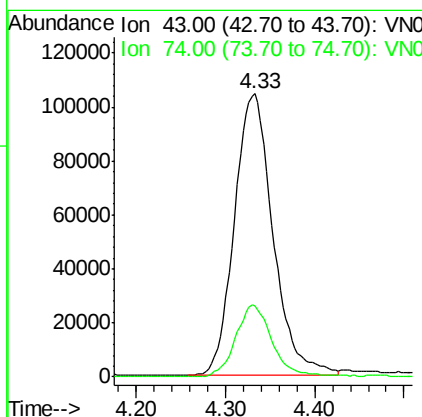
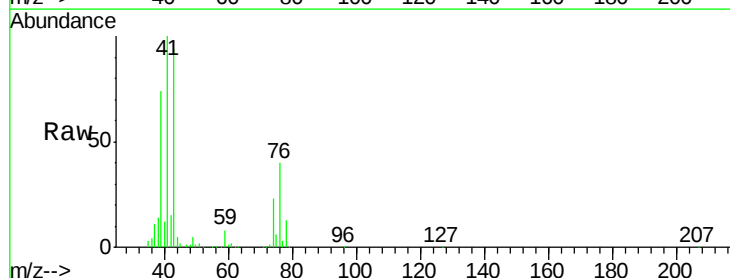
Manual Integrations
APPROVED

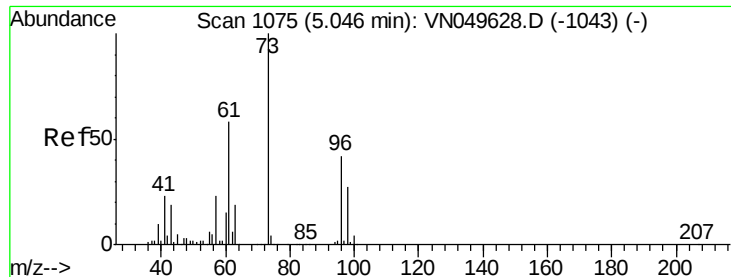
sam
7/6/2018 4:26:02 PM



#18
Methyl Acetate
Concen: 18.263 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.9	19.8	29.8





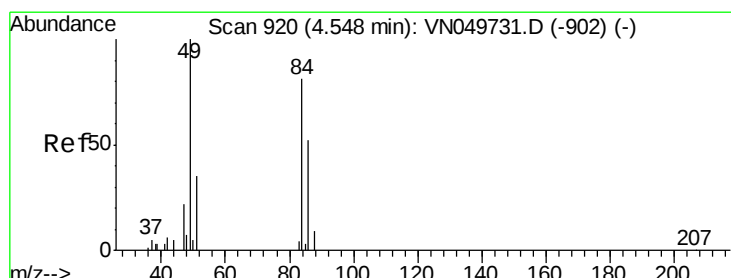
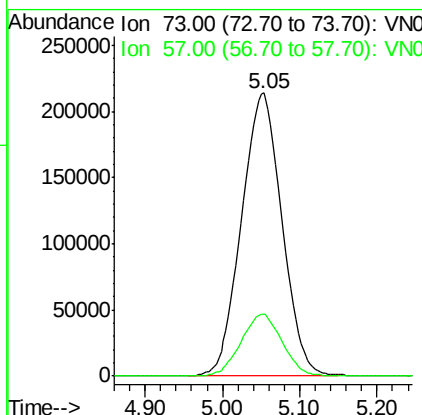
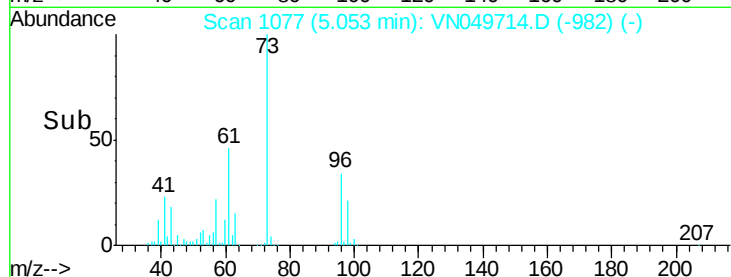
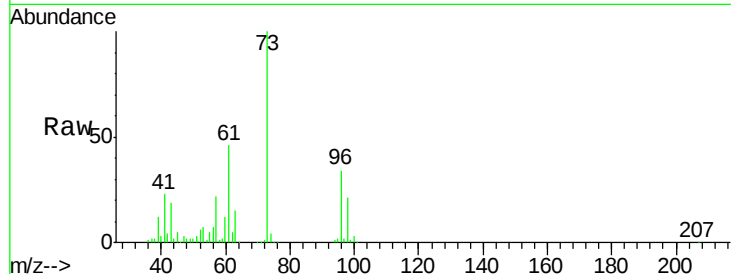
#19
Methyl tert-butyl Ether
Concen: 20.838 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.01 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion: 73 Resp: 779328
Ion Ratio Lower Upper
73 100
57 22.1 18.1 27.1

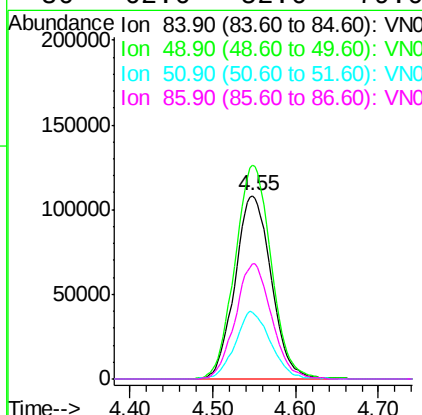
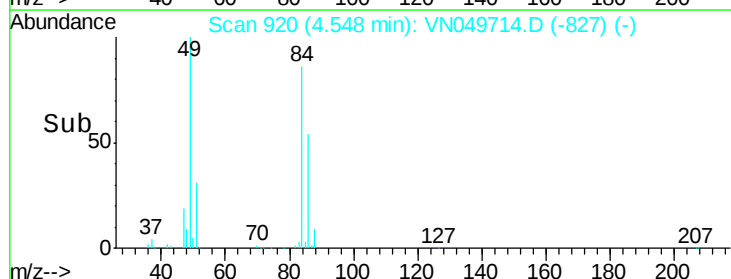
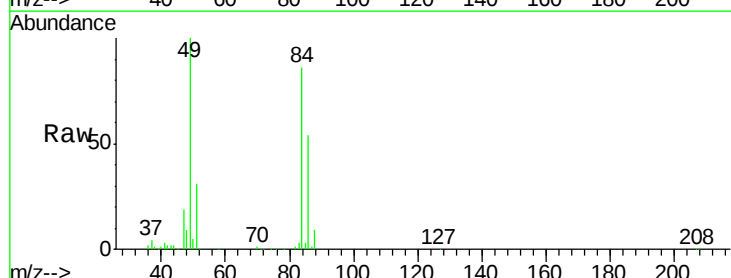
Manual Integrations
APPROVED

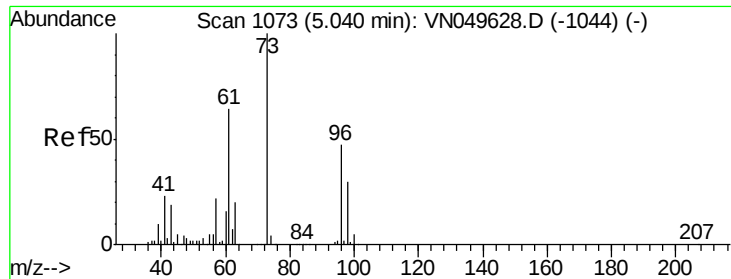
sam
7/6/2018 4:26:02 PM



#20
Methylene Chloride
Concen: 19.593 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion: 84 Resp: 329112
Ion Ratio Lower Upper
84 100
49 116.5 95.4 143.2
51 36.3 28.4 42.6
86 62.6 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 19.334 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

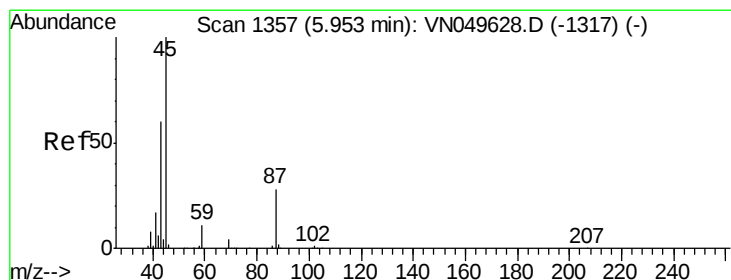
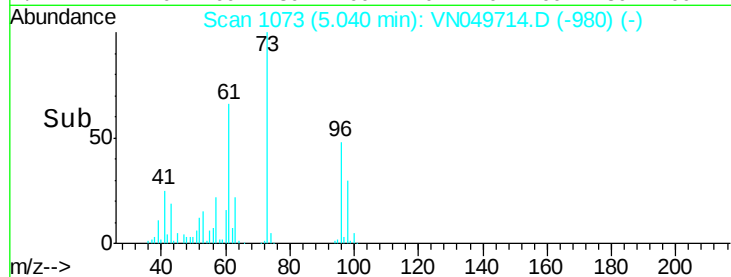
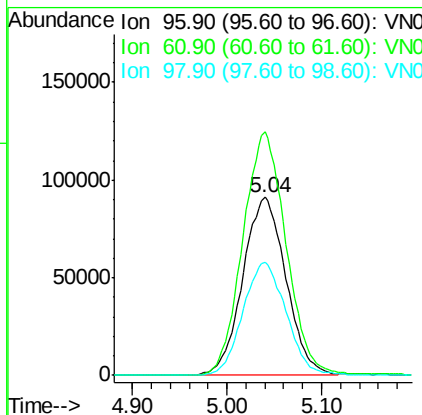
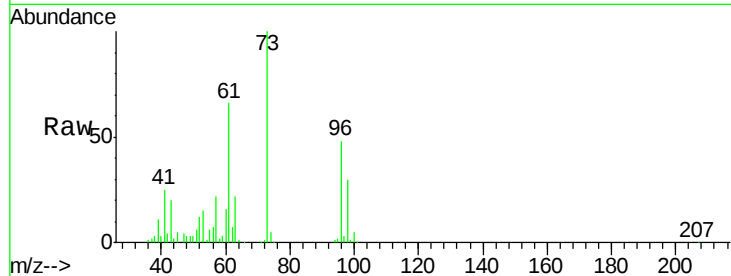
ClientSampleId :

VN0705WBSD01

Tot Ion:	96	Resp:	288683
Ion	Ratio	Lower	Upper
96	100		
61	136.6	109.0	163.6
98	63.3	51.1	76.7

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#22

Diisopropyl ether

Concen: 20.458 ug/l

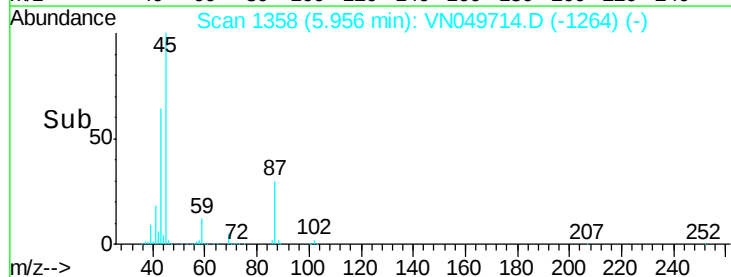
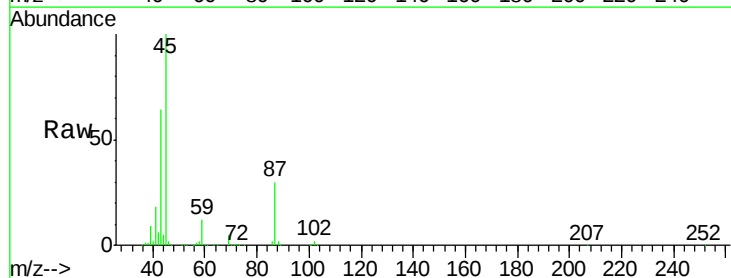
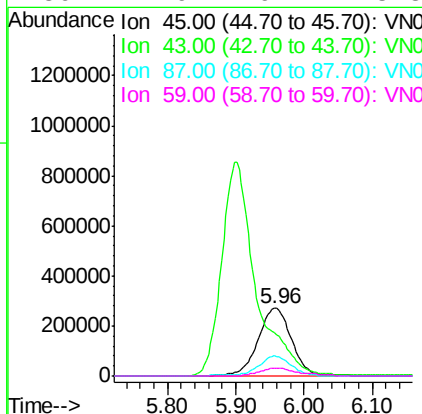
RT: 5.96 min Scan# 1358

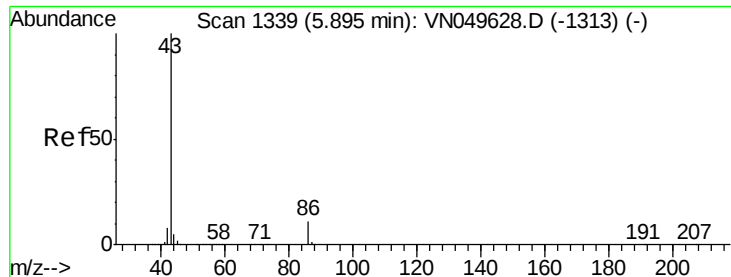
Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	45	Resp:	922372
Ion	Ratio	Lower	Upper
45	100		
43	63.8	48.1	72.1
87	29.4	22.6	34.0
59	11.9	9.2	13.8





#23

Vinyl Acetate

Concen: 101.603 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion: 43 Resp: 2970662

Ion Ratio Lower Upper

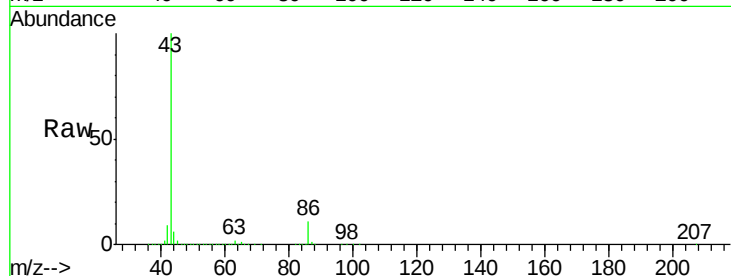
43 100

86 10.5 8.4 12.6

Manual Integrations
APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

1000000

800000

600000

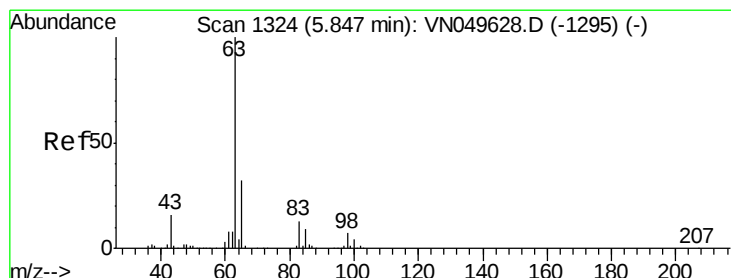
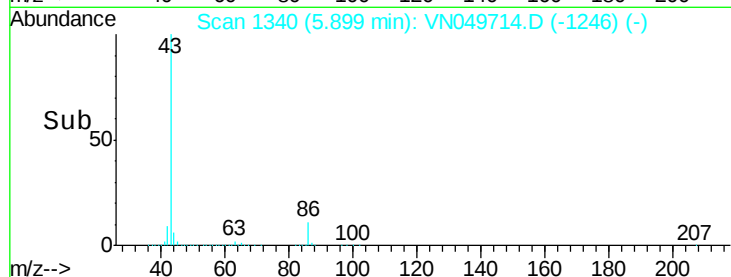
400000

200000

0

5.70 5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 19.798 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

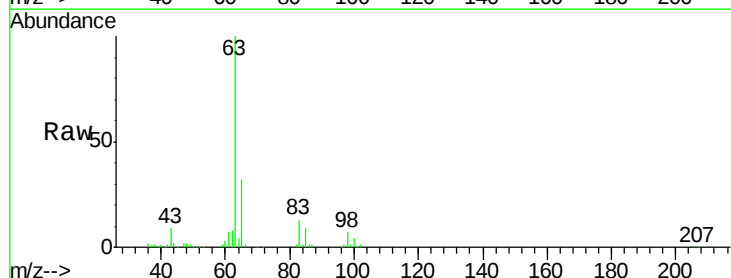
Tgt Ion: 63 Resp: 562333

Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.2

100 4.1 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

200000

150000

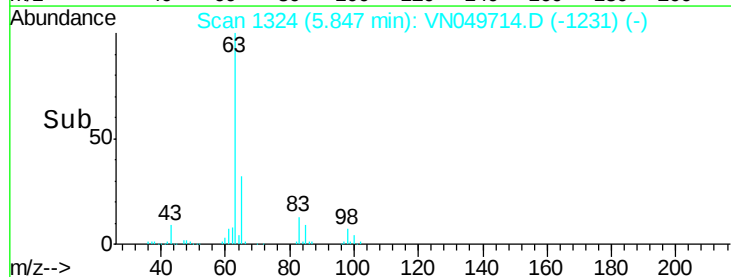
100000

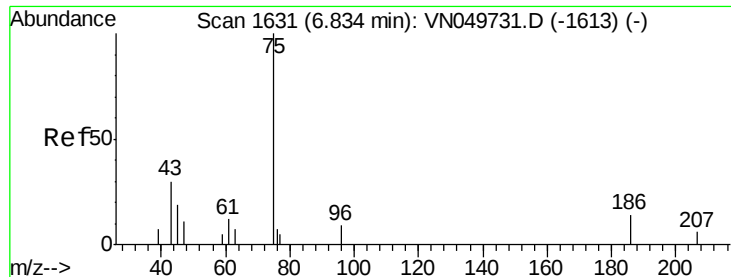
50000

0

5.70 5.80 5.90

Time-->





#25

2-Butanone

Concen: 119.707 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampled :

VN0705WBSD01

Tot Ion: 43 Resp: 648245

Ion Ratio Lower Upper

43 100

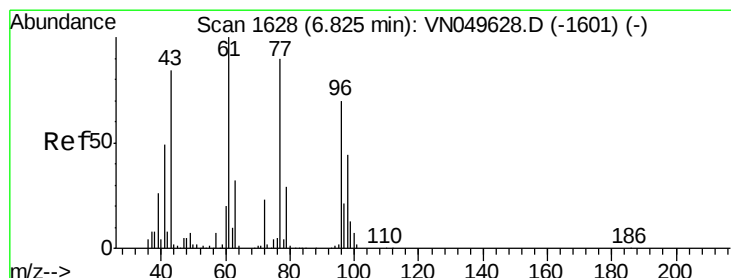
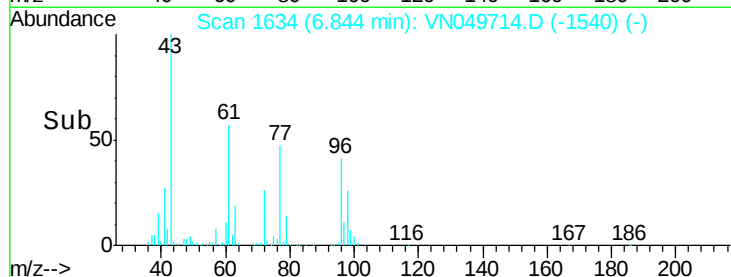
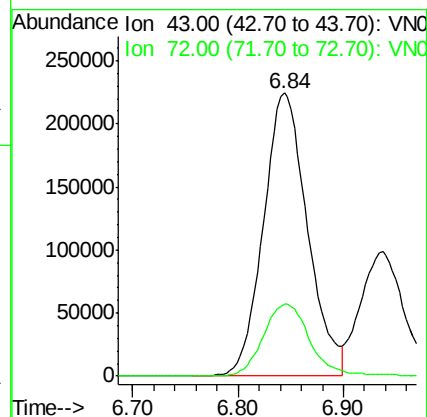
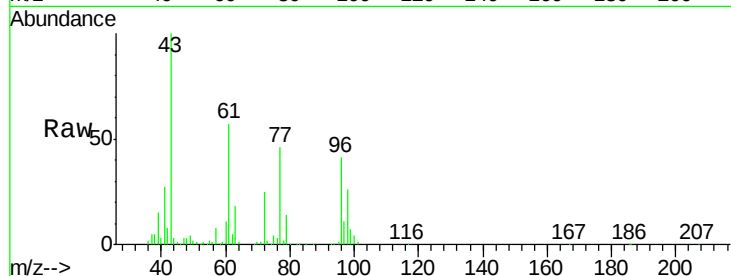
72 25.5 22.1 33.1

Manual Integrations

APPROVED

sam

7/6/2018 4:26:02 PM



#26

2,2-Dichloropropane

Concen: 20.044 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VN049714.D

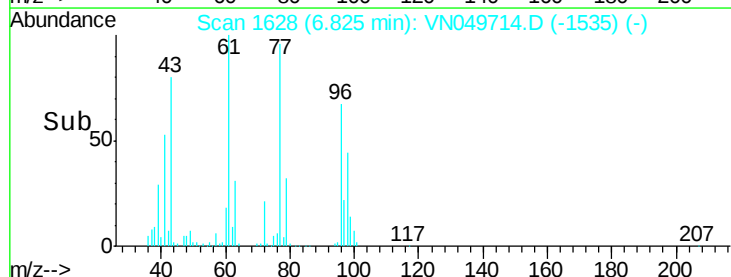
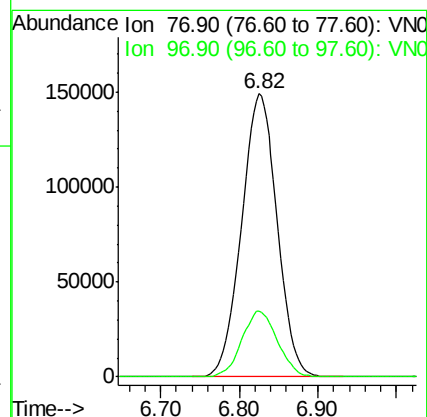
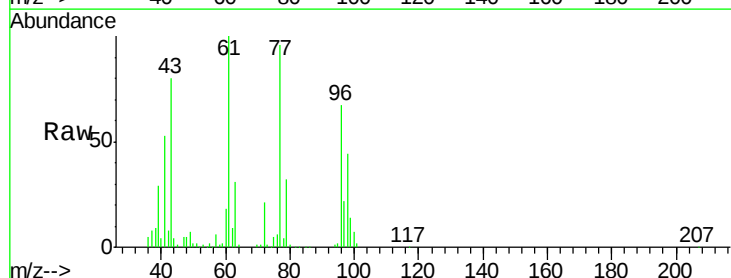
Acq: 5 Jul 2018 15:41

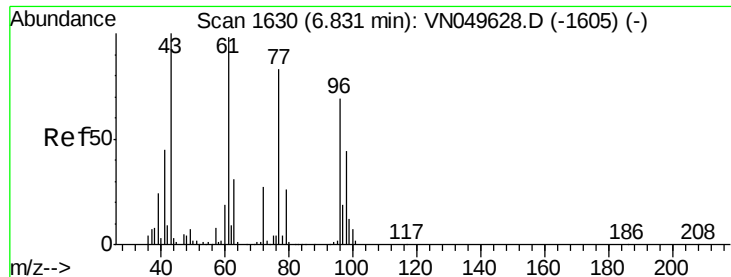
Tgt Ion: 77 Resp: 472855

Ion Ratio Lower Upper

77 100

97 23.4 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 19.448 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

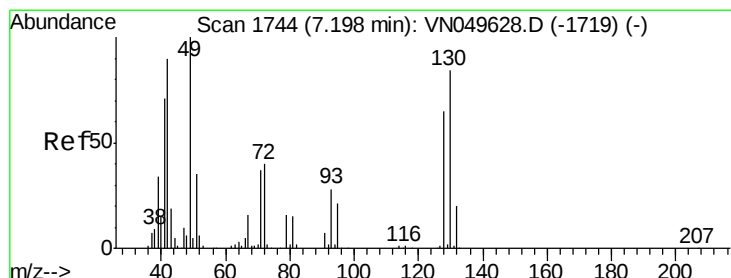
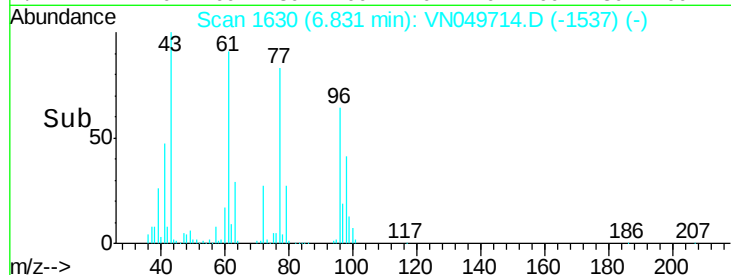
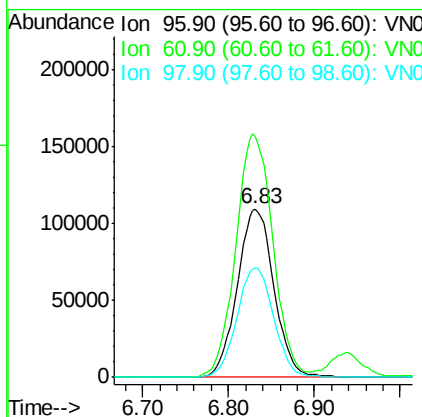
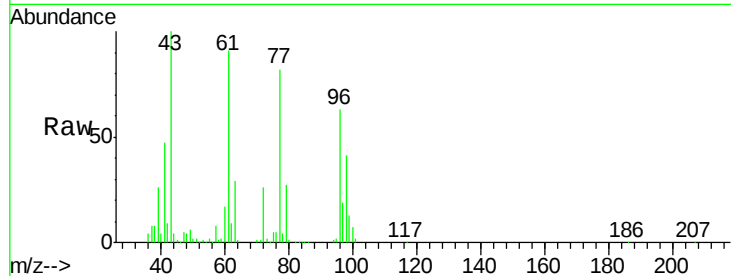
ClientSampleId :

VN0705WBSD01

Tot Ion:	96	Resp:	324375
Ion	Ratio	Lower	Upper
96	100		
61	146.4	0.0	289.0
98	65.5	0.0	130.2

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#28

Bromochloromethane

Concen: 21.504 ug/l

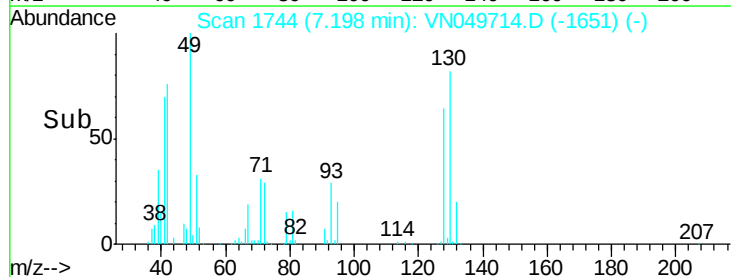
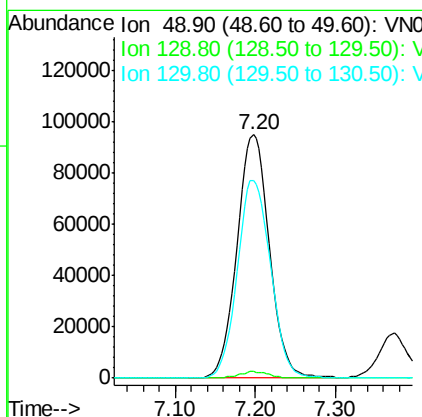
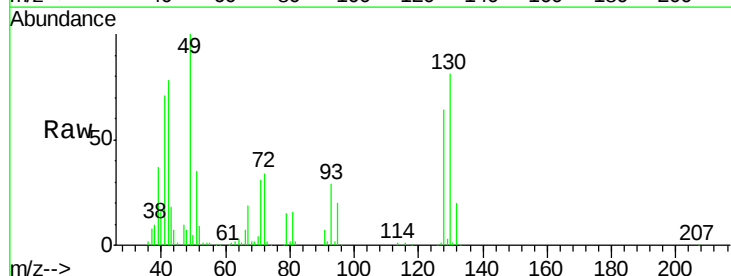
RT: 7.20 min Scan# 1744

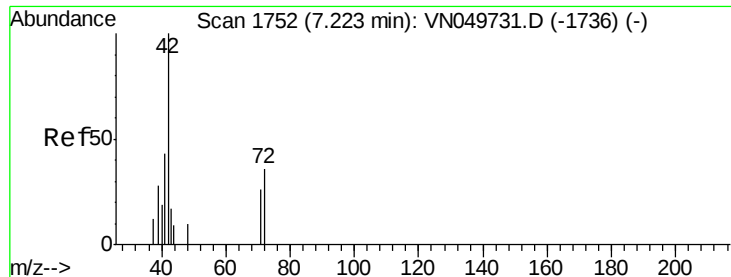
Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	49	Resp:	259231
Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	83.3	65.5	98.3





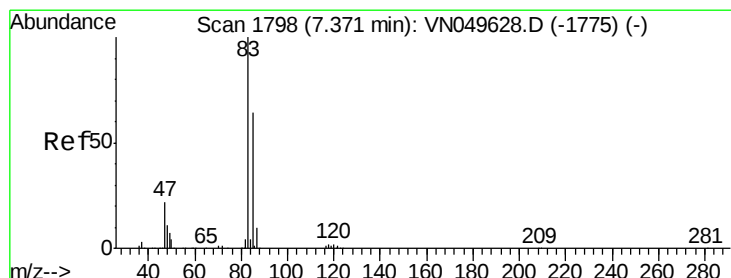
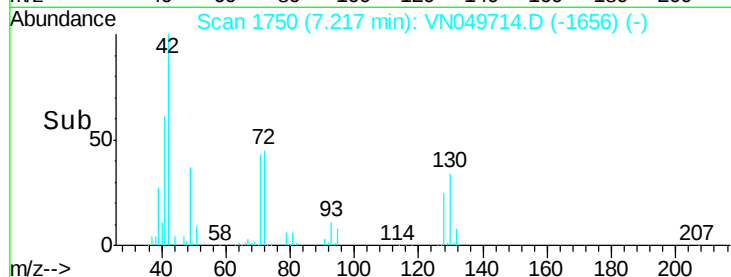
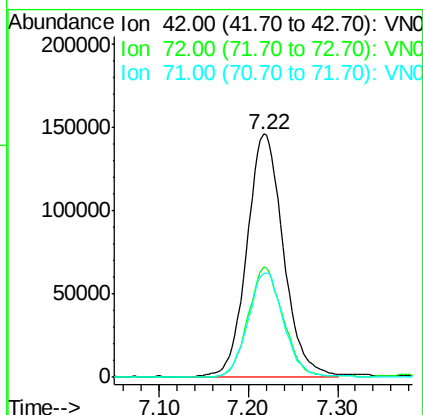
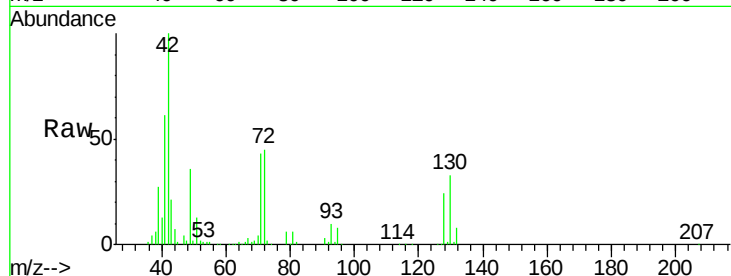
#29
Tetrahydrofuran
Concen: 119.961 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampled :
VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.2	35.6	53.4
71	42.5	34.0	51.0

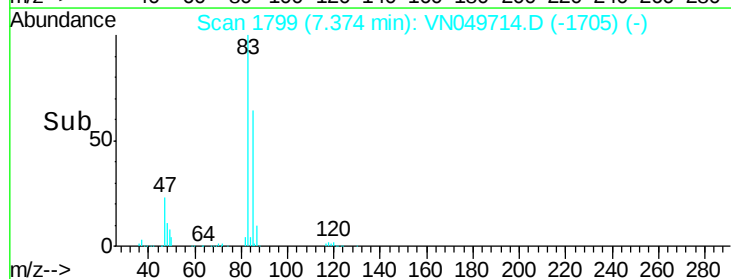
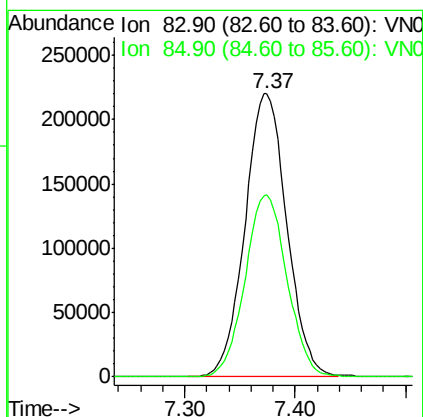
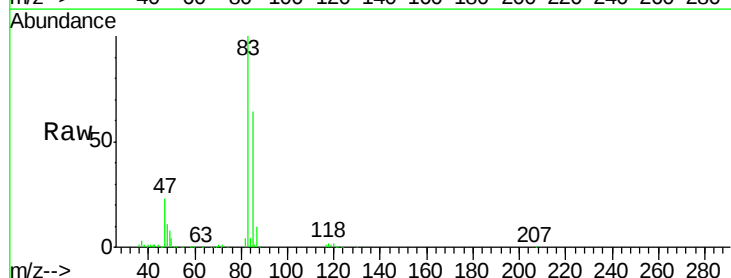
Manual Integrations
APPROVED

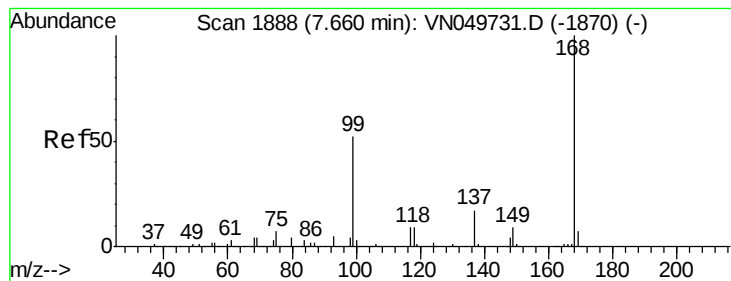
sam
7/6/2018 4:26:02 PM



#30
Chloroform
Concen: 19.961 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.4	77.2





#31

Cyclohexane

Concen: 19.549 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

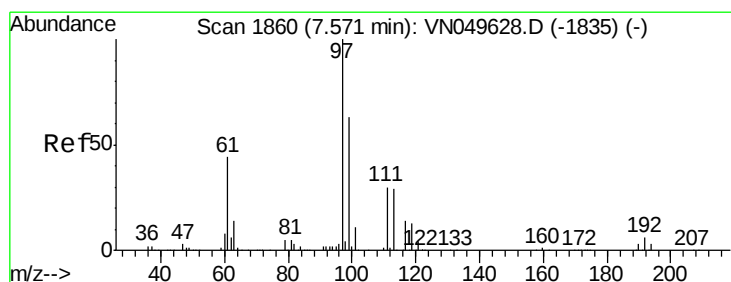
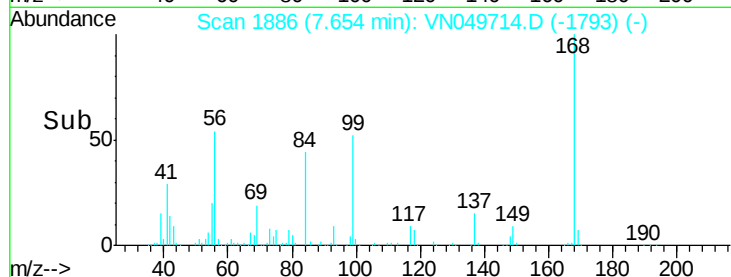
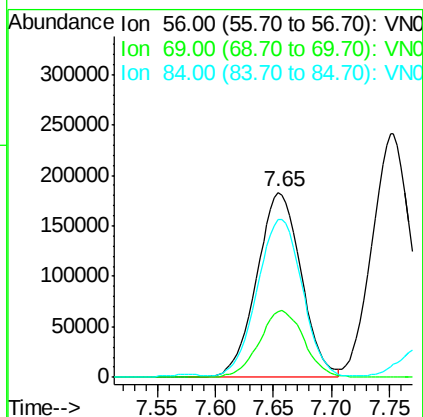
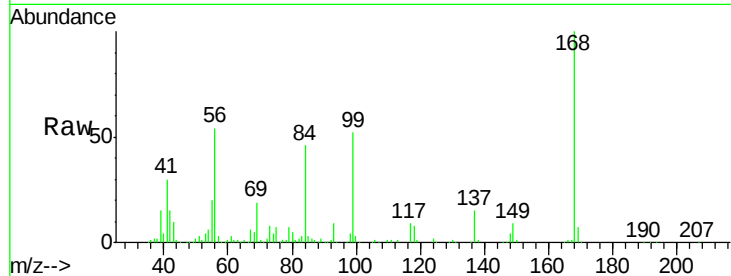
ClientSampleId :

VN0705WBSD01

Tot Ion:	56	Resp:	486963
Ion	Ratio	Lower	Upper
56	100		
69	35.4	26.6	40.0
84	83.6	69.0	103.6

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#32

1,1,1-Trichloroethane

Concen: 20.201 ug/l

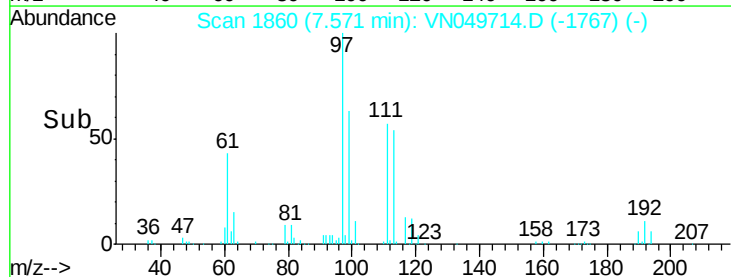
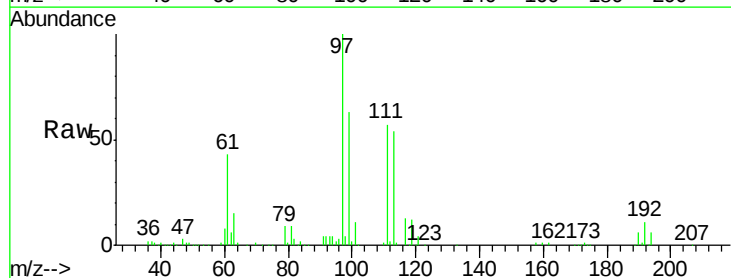
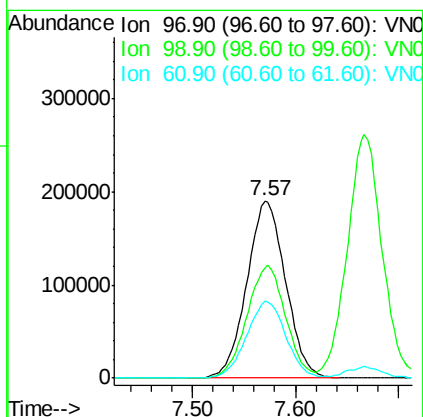
RT: 7.57 min Scan# 1860

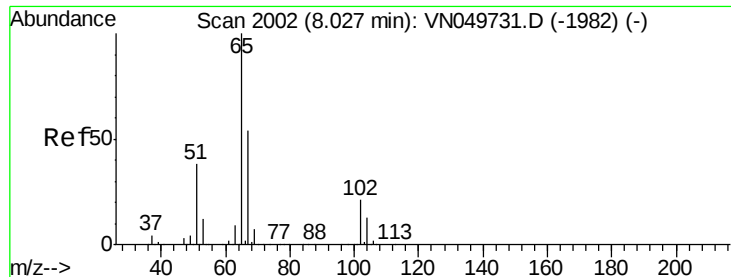
Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	97	Resp:	495208
Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.0	76.4
61	44.1	35.5	53.3





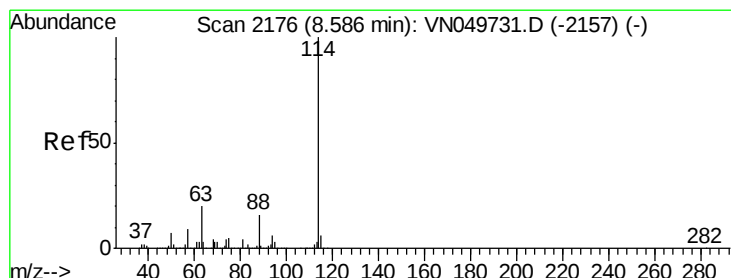
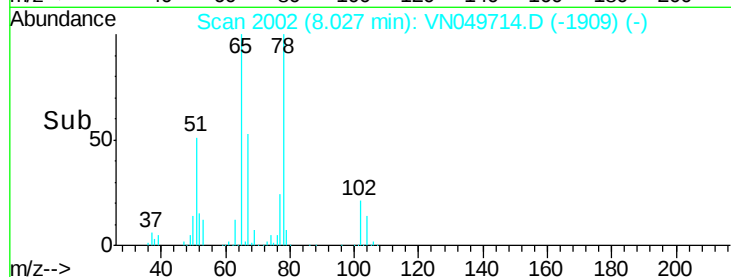
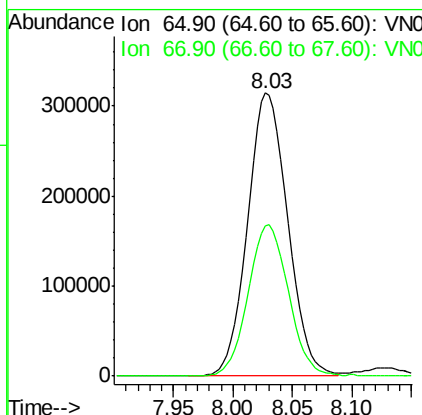
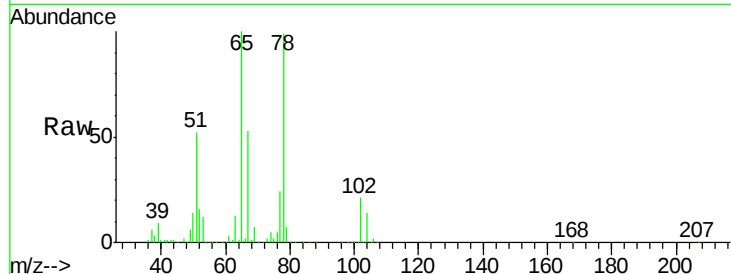
#33
 1,2-Dichloroethane-d4
 Concen: 45.108 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Instrument :
 MSVOA_N
 ClientSampled :
 VN0705WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	735815		
67	53.6	0.0	107.2	

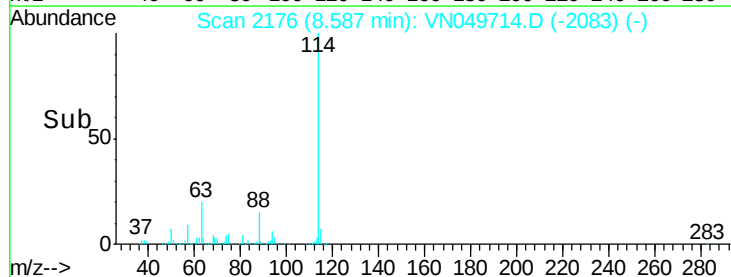
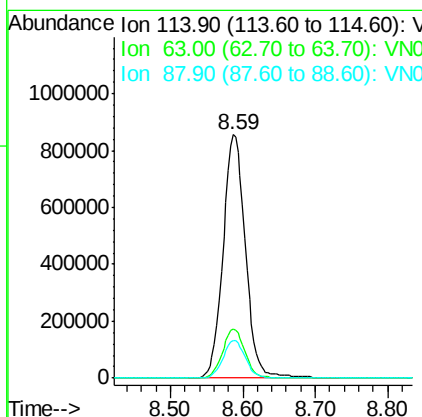
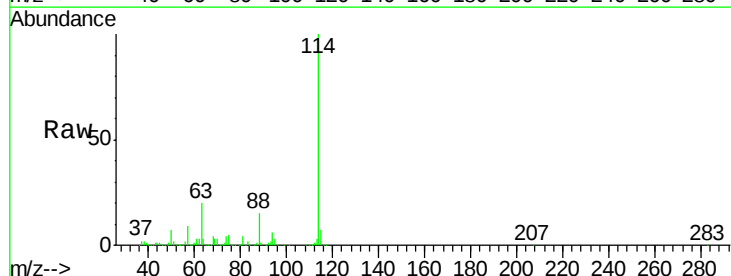
Manual Integrations
 APPROVED

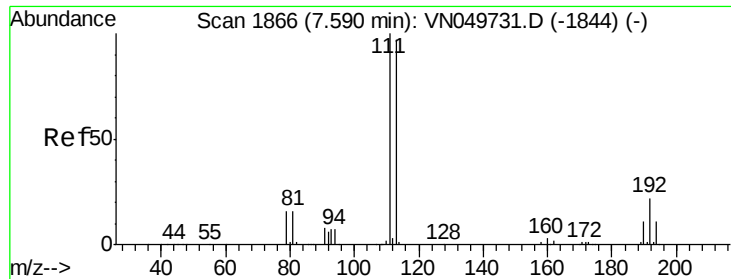
sam
 7/6/2018 4:26:02 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1838255		
63	20.1	0.0	39.8	
88	15.4	0.0	30.6	





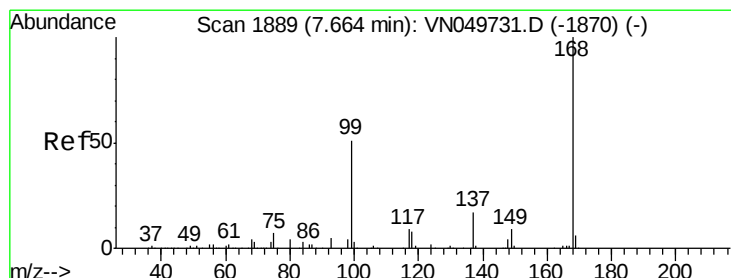
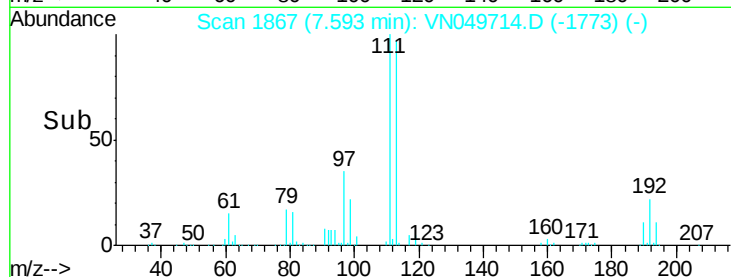
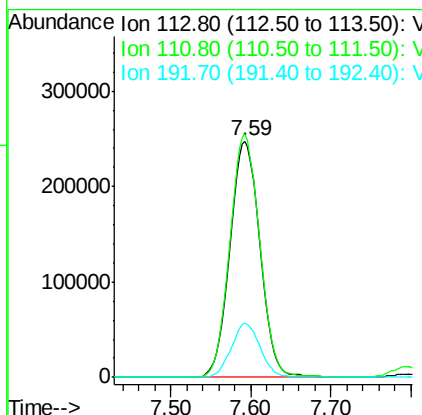
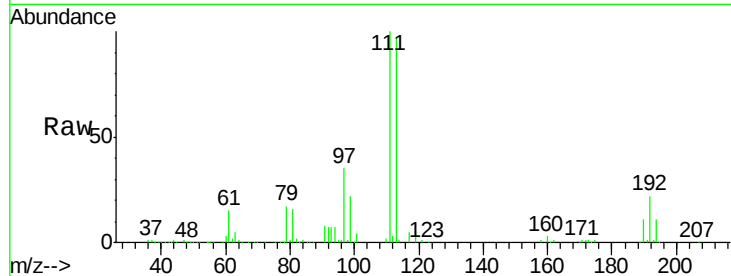
#35
Dibromofluoromethane
Concen: 45.701 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.7	81.8	122.8	
192	22.0	17.8	26.6	

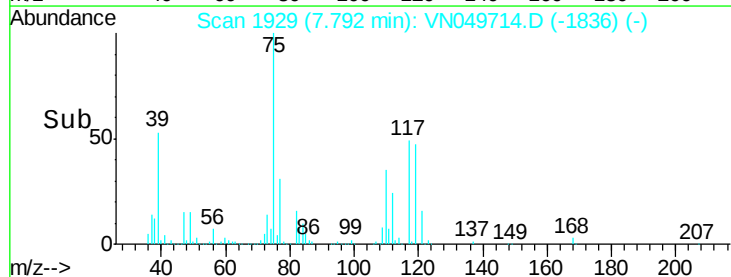
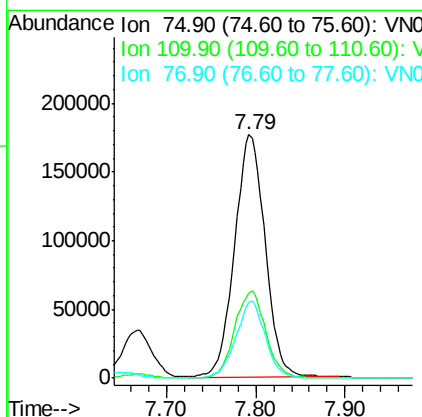
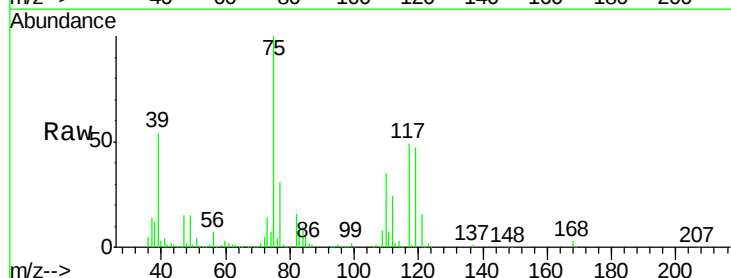
Manual Integrations
APPROVED

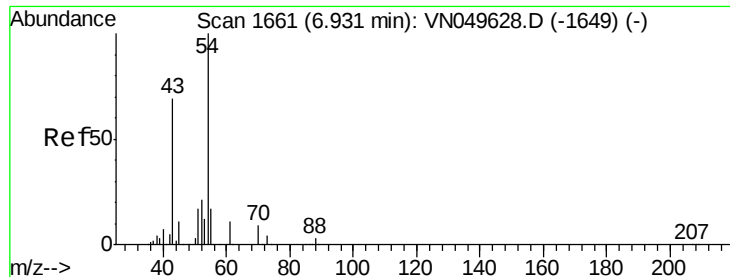
sam
7/6/2018 4:26:02 PM



#36
1,1-Dichloropropene
Concen: 20.287 ug/l
RT: 7.79 min Scan# 1929
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.5	18.1	54.4	
77	31.0	24.9	37.3	





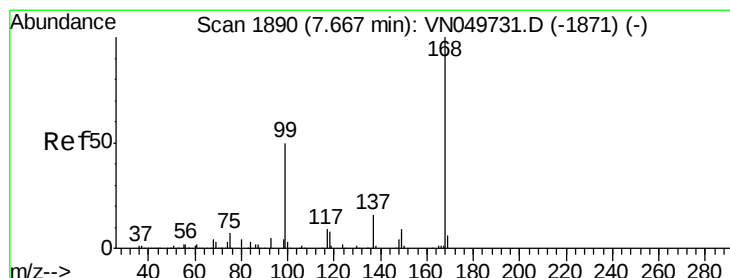
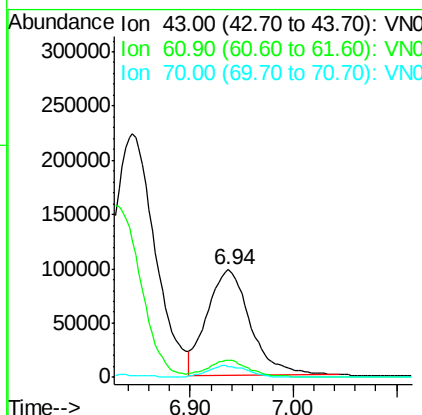
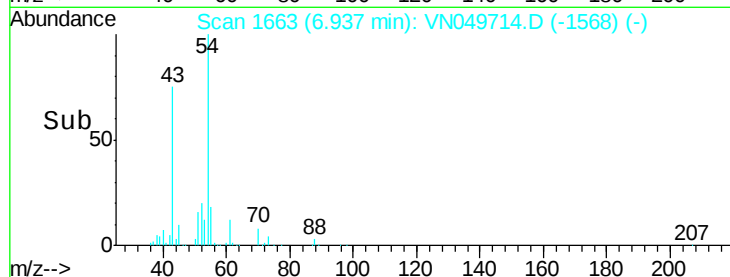
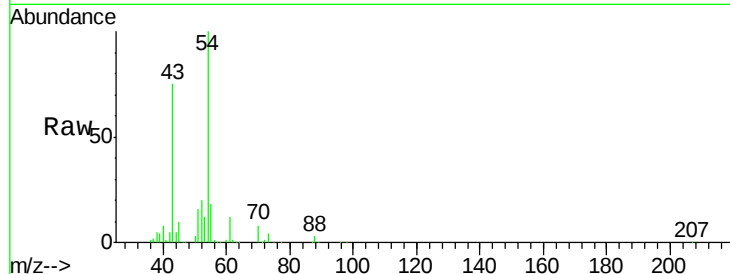
#37
Ethyl Acetate
Concen: 23.686 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.01 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.0	11.7	17.5
70	9.8	8.4	12.6

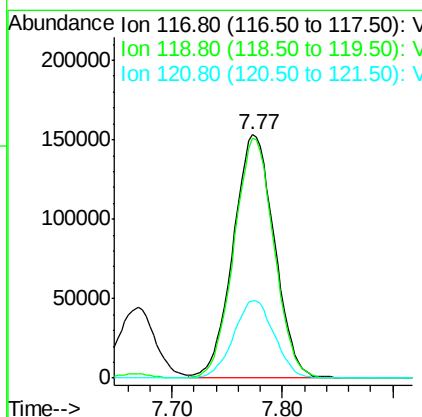
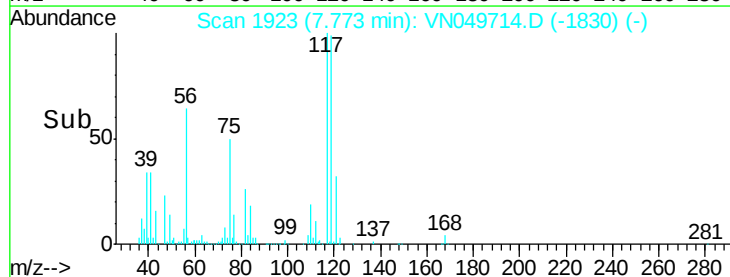
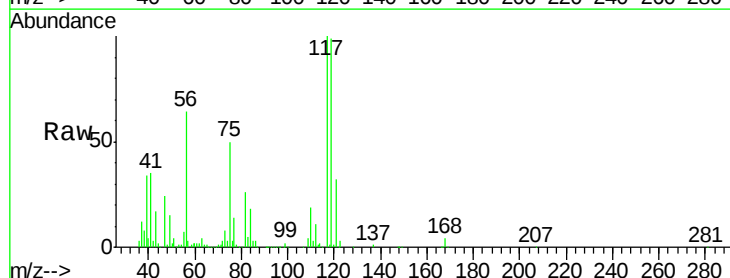
Manual Integrations
APPROVED

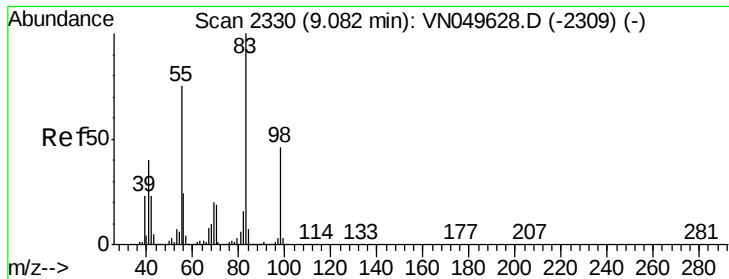
sam
7/6/2018 4:26:02 PM



#38
Carbon Tetrachloride
Concen: 19.648 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	77.2	115.8
121	31.8	25.0	37.6





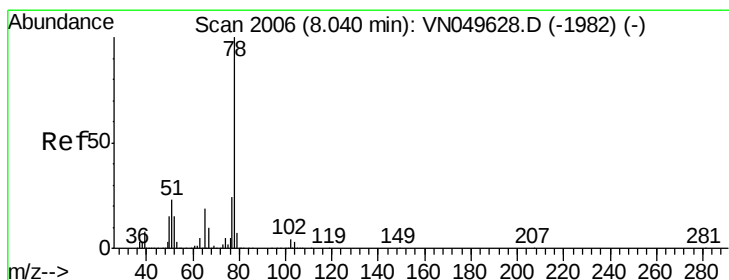
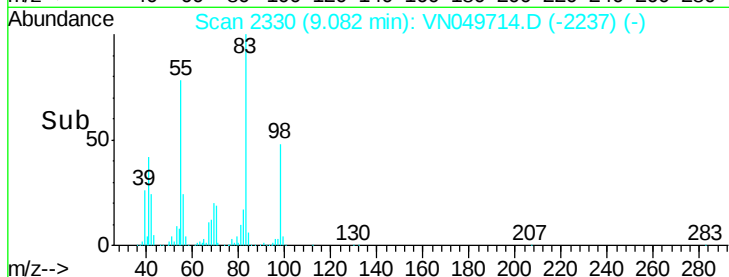
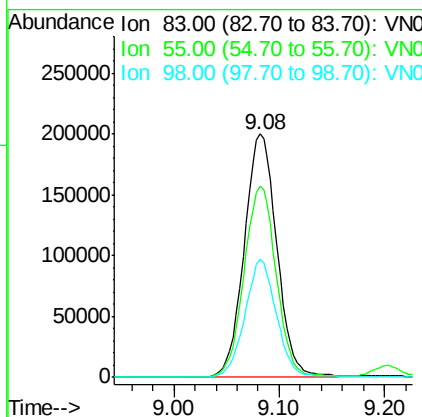
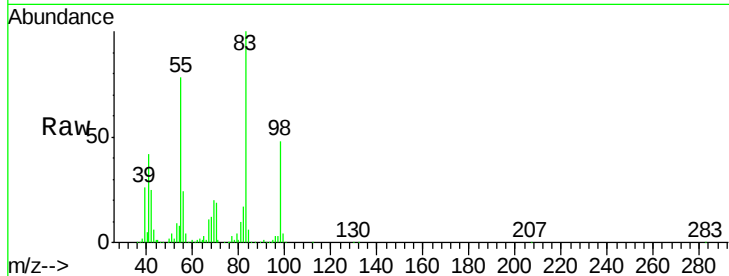
#39
Methvlcvclohexane
Concen: 19.017 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.4	59.7	89.5
98	48.4	36.5	54.7

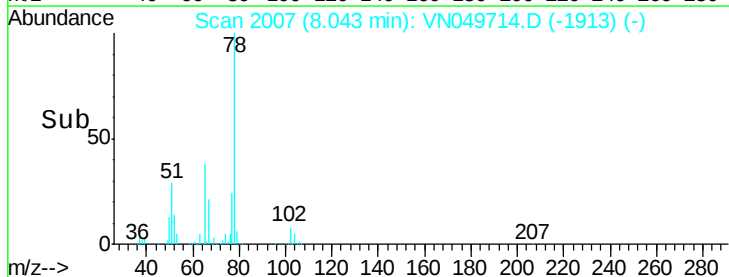
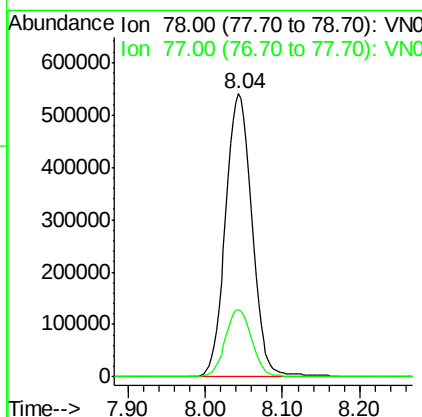
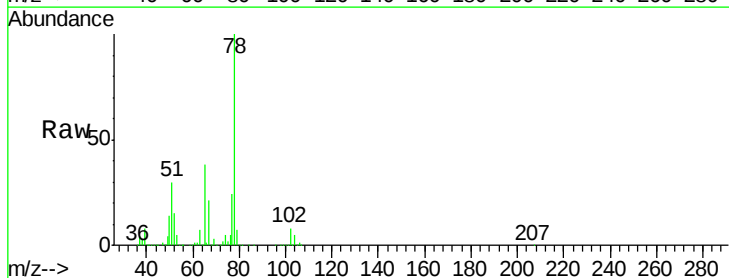
Manual Integrations
APPROVED

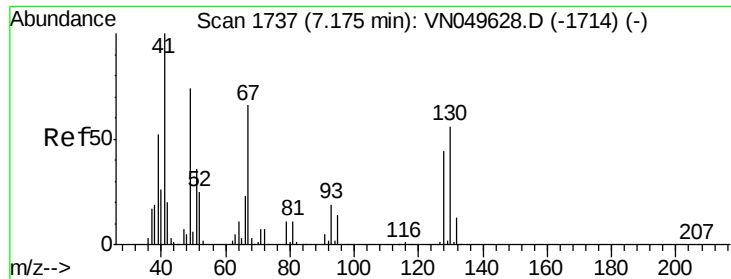
sam
7/6/2018 4:26:02 PM



#40
Benzene
Concen: 20.333 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





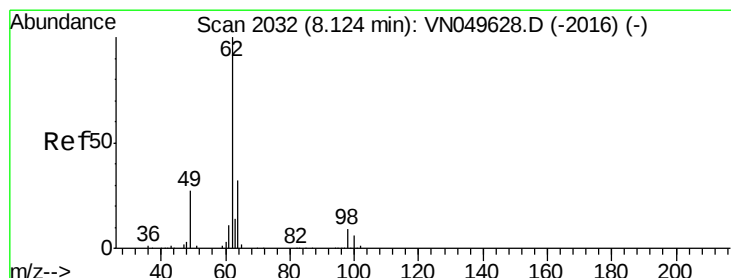
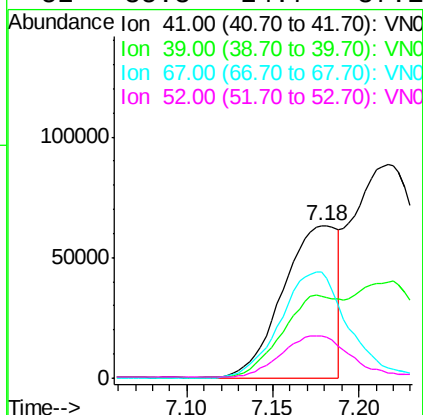
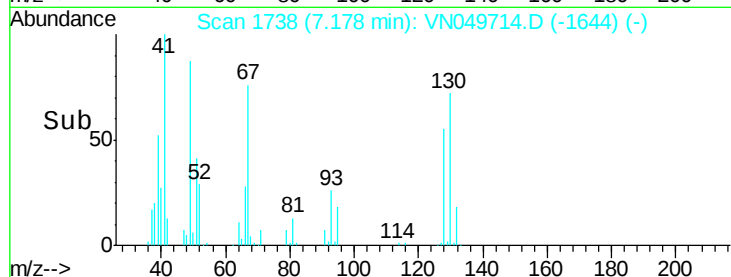
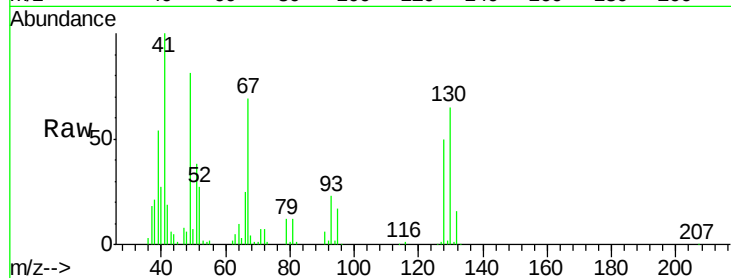
#41
Methacrylonitrile
Concen: 20.508 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	41	Resp	139448
Ion Ratio	Lower	Upper	
41	100		
39	58.4	45.4	68.2
67	88.1	65.4	98.0
52	35.3	24.7	37.1

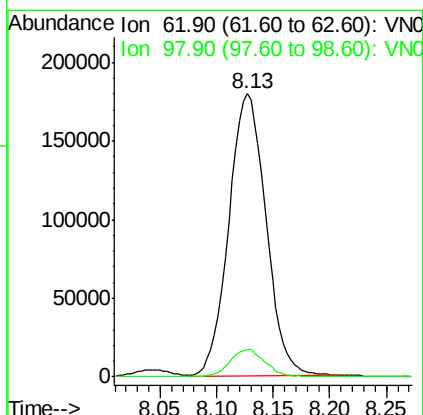
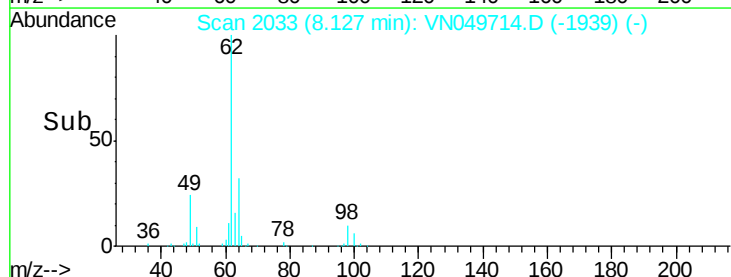
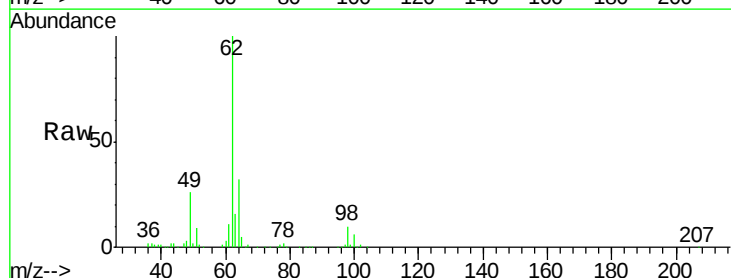
Manual Integrations
APPROVED

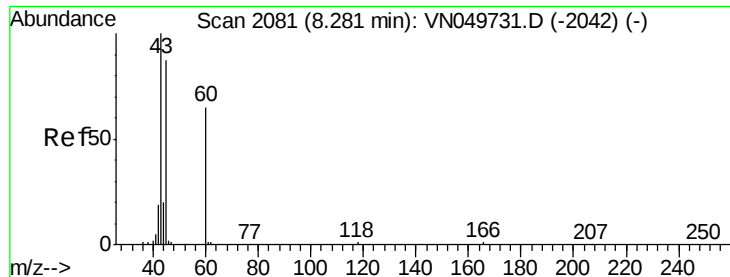
sam
7/6/2018 4:26:02 PM



#42
1,2-Dichloroethane
Concen: 20.443 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	62	Resp	412000
Ion Ratio	Lower	Upper	
62	100		
98	9.2	0.0	19.0





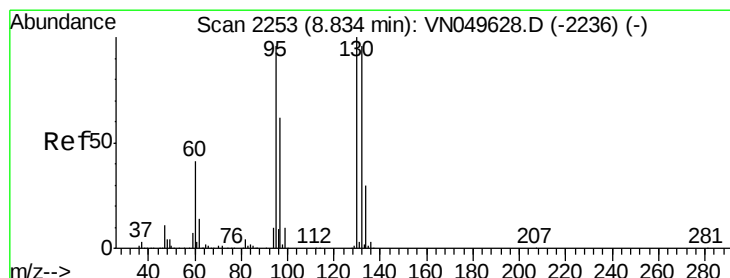
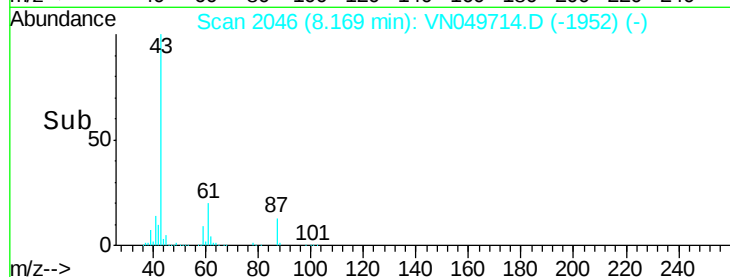
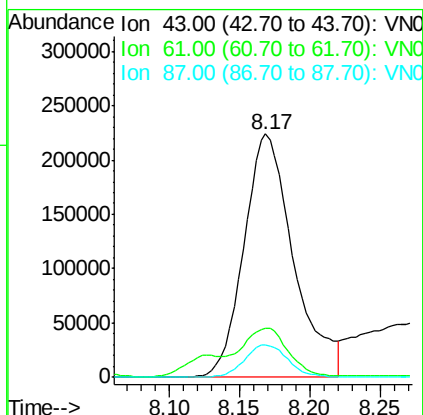
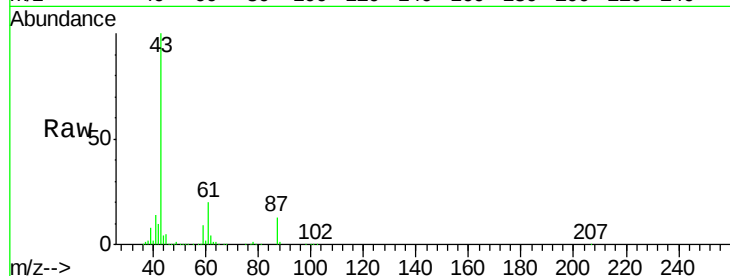
#43
Isopropyl Acetate
Concen: 22.595 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.9	22.3
87	11.7	10.0	15.0

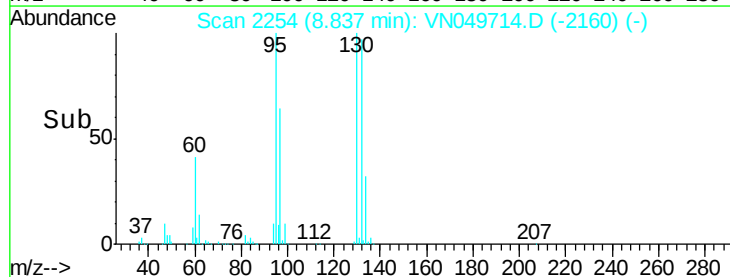
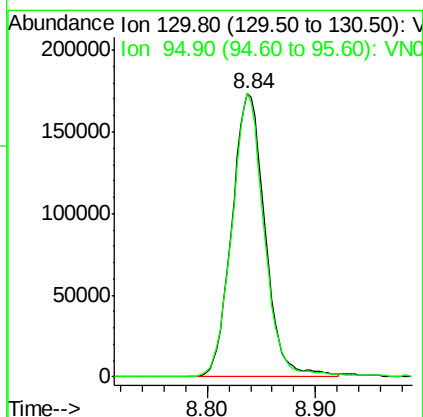
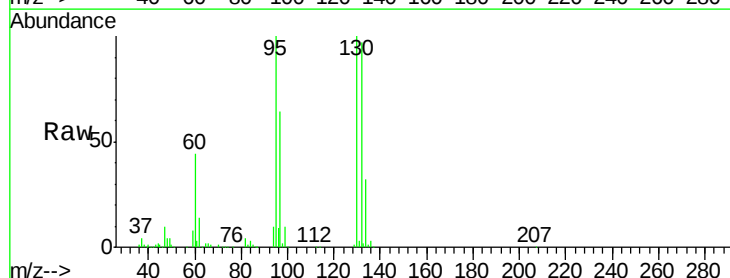
Manual Integrations
APPROVED

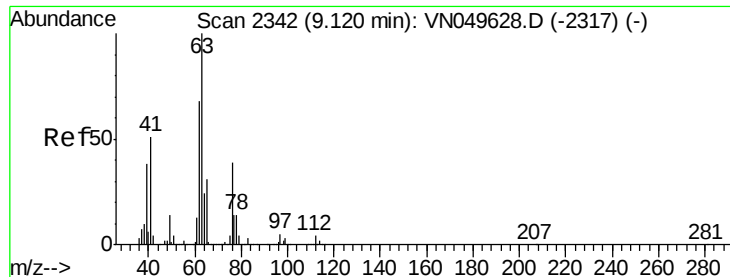
sam
7/6/2018 4:26:02 PM



#44
Trichloroethene
Concen: 19.476 ug/l
RT: 8.84 min Scan# 2254
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	192.8





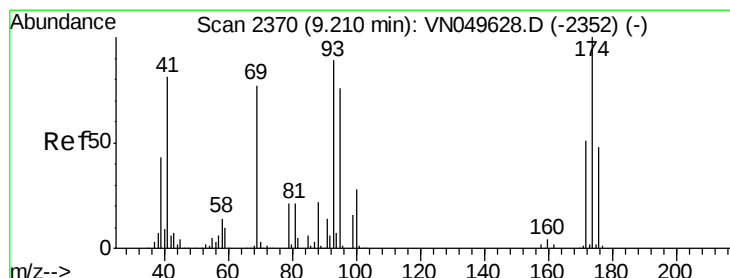
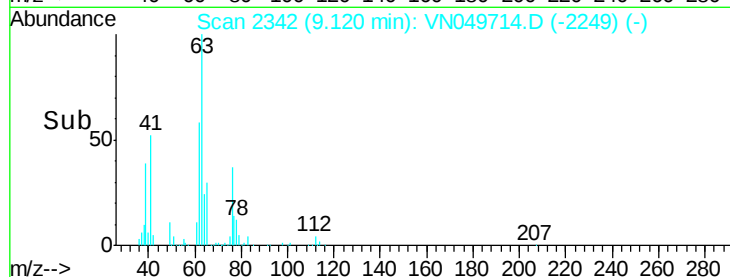
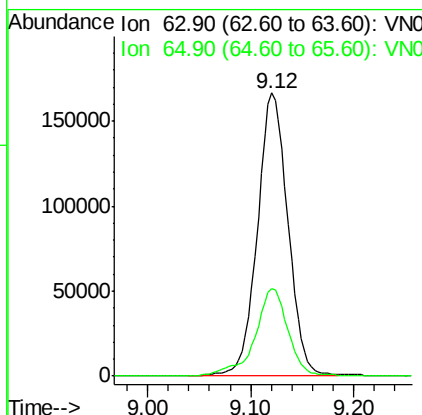
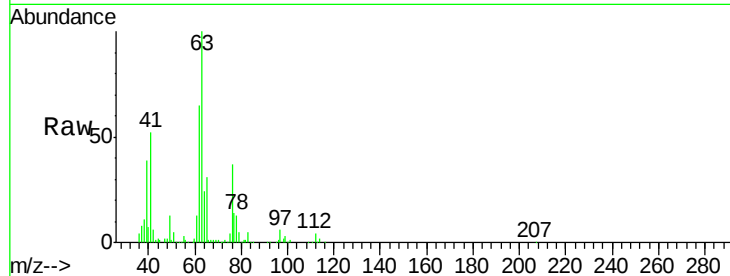
#45
 1,2-Dichloropropane
 Concen: 20.949 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

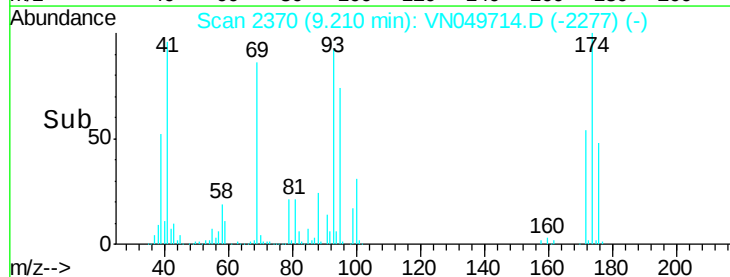
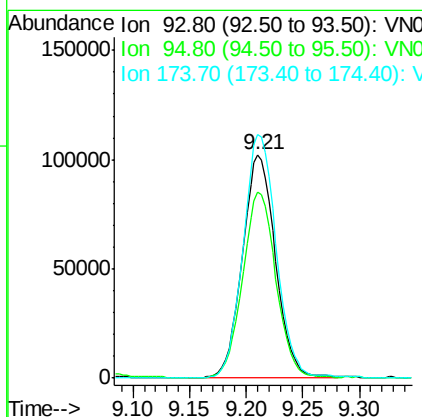
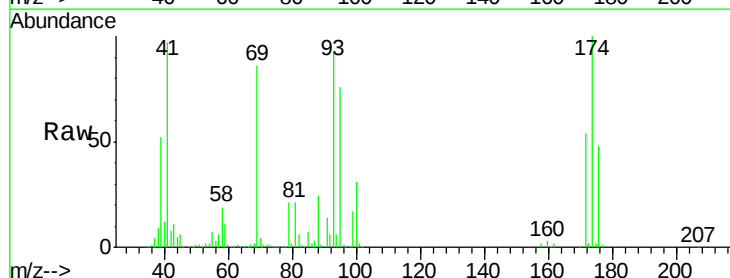
Manual Integrations
 APPROVED

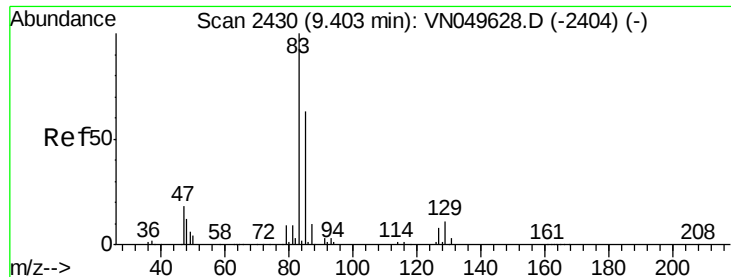
sam
 7/6/2018 4:26:02 PM



#46
 Dibromomethane
 Concen: 21.186 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.5	67.9	101.9
174	109.1	89.4	134.0





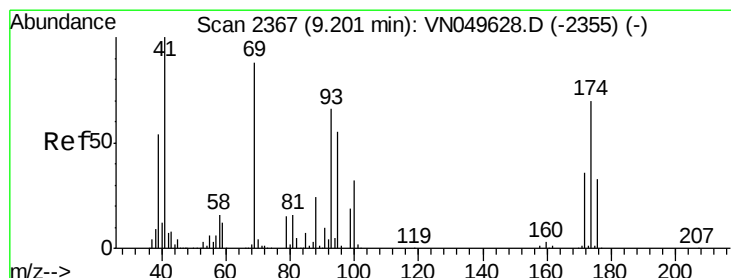
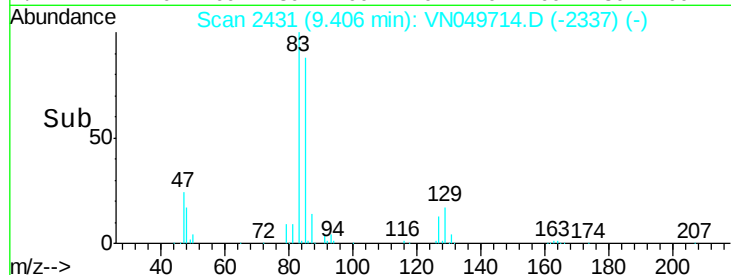
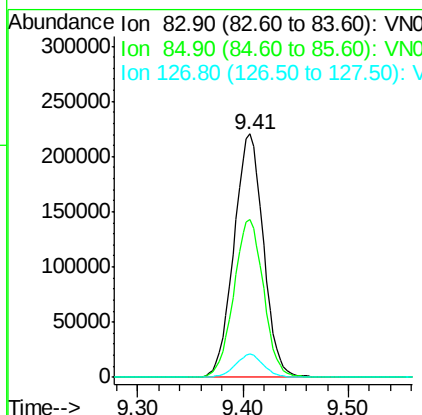
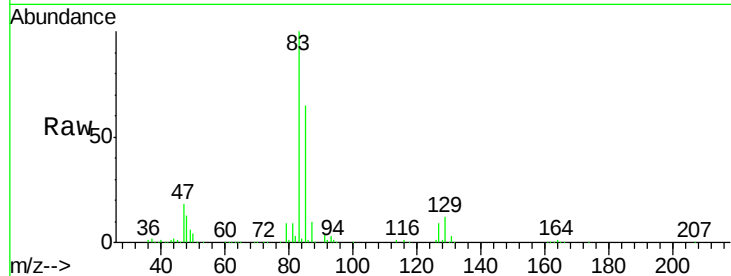
#47
Bromodichloromethane
Concen: 20.360 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	64.7	50.5	75.7	
127	9.4	6.8	10.2	

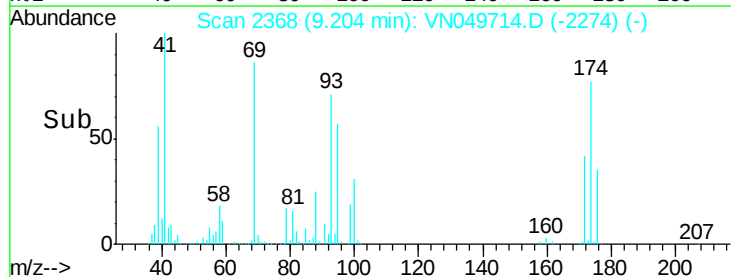
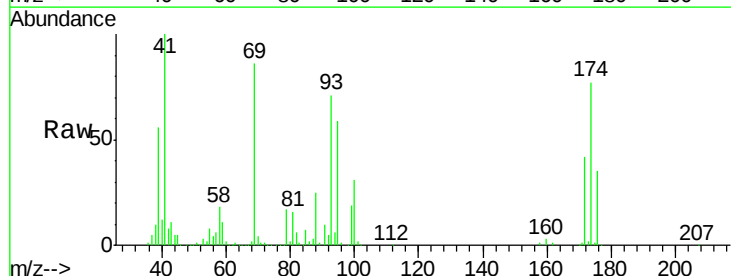
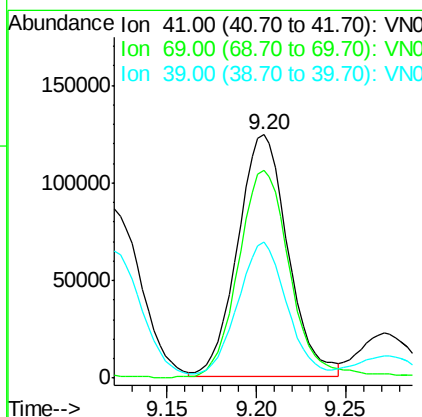
Manual Integrations
APPROVED

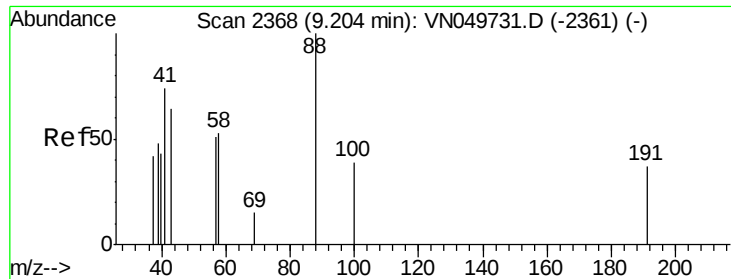
sam
7/6/2018 4:26:02 PM



#48
Methyl methacrylate
Concen: 22.687 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	88.8	71.5	107.3	
39	54.8	44.7	67.1	





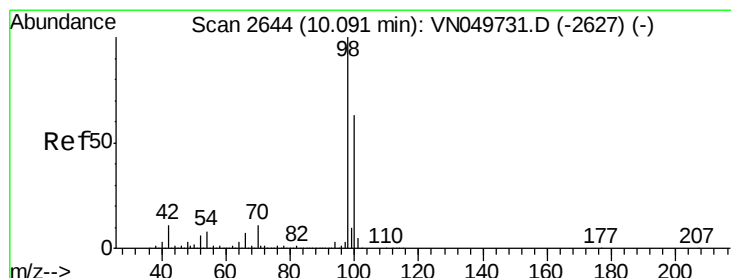
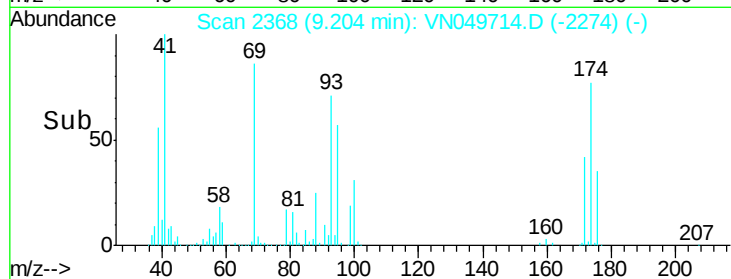
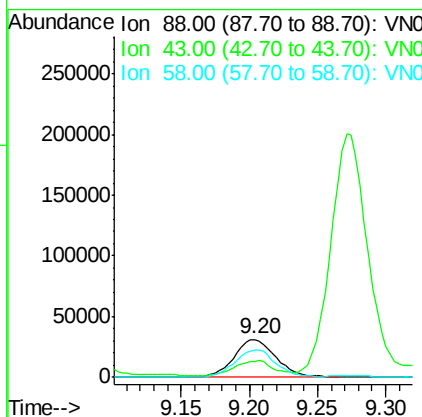
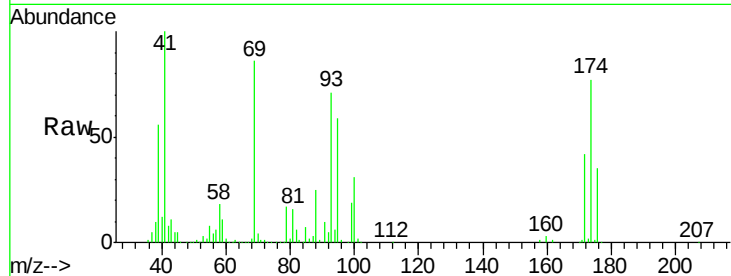
#49
1,4-Dioxane
Concen: 463.769 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	88	Resp	66834
Ion Ratio	Lower	Upper	
88	100		
43	33.2	25.1	37.7
58	71.3	52.5	78.7

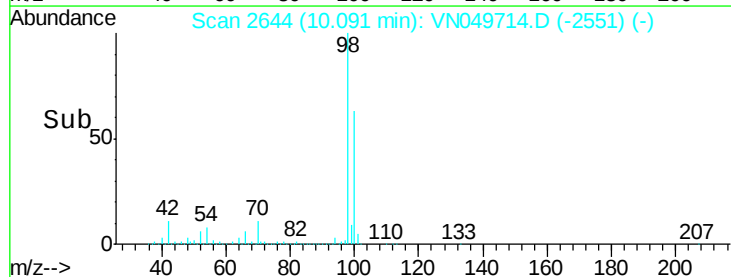
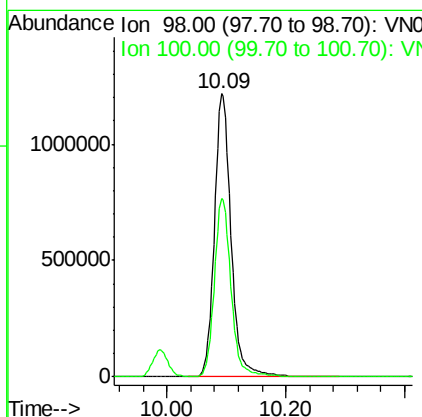
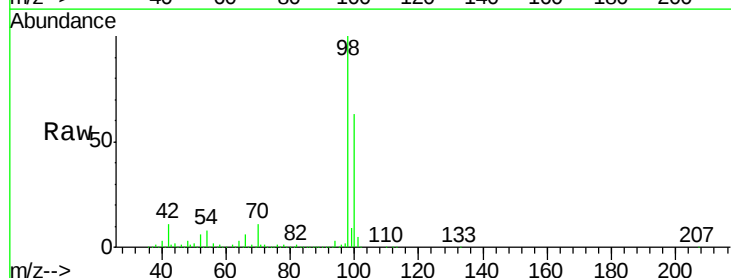
Manual Integrations
APPROVED

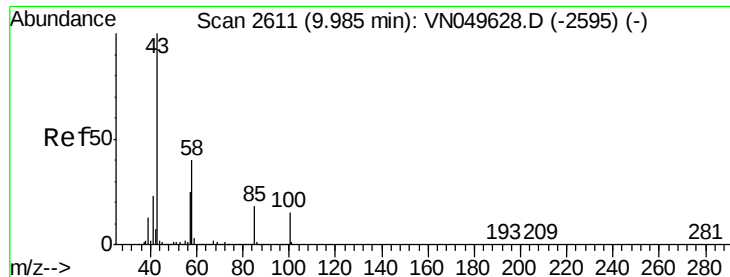
sam
7/6/2018 4:26:02 PM



#50
Toluene-d8
Concen: 43.763 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	98	Resp	2354108
Ion Ratio	Lower	Upper	
98	100		
100	63.4	51.7	77.5





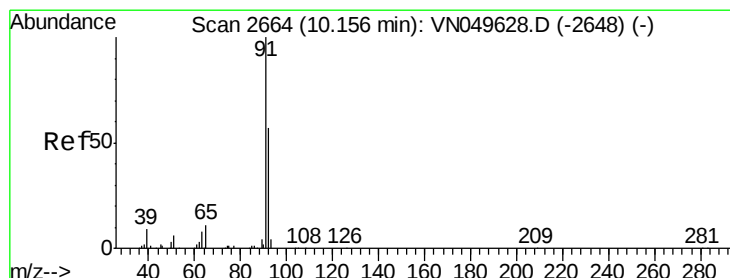
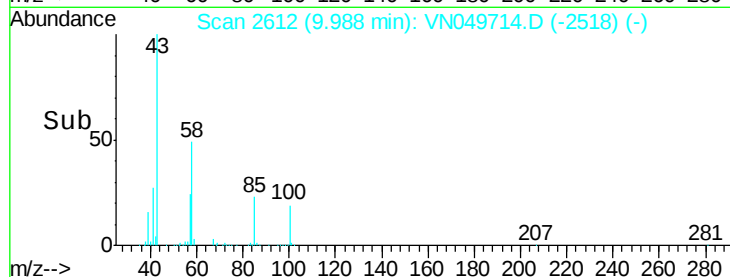
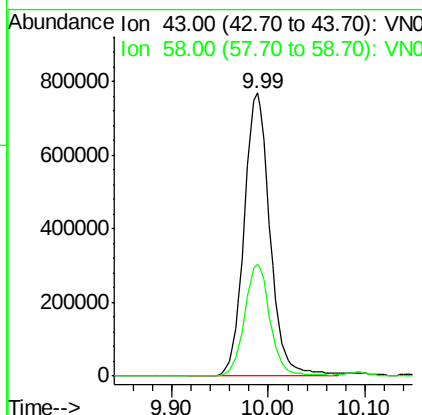
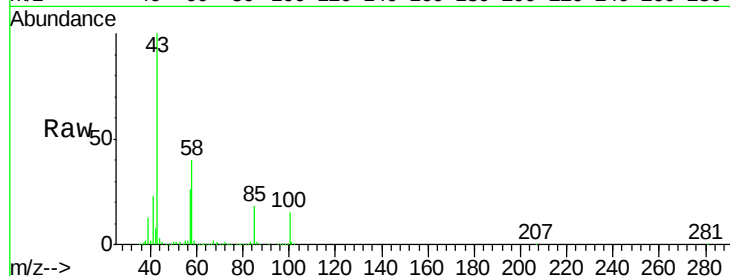
#51
4-Methyl-2-Pentanone
Concen: 120.277 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion: 43 Resp: 1422503
Ion Ratio Lower Upper
43 100
58 39.1 31.8 47.8

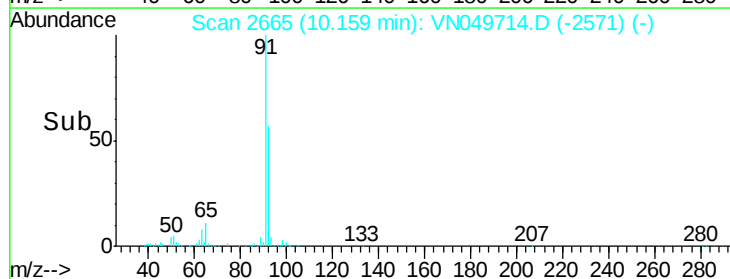
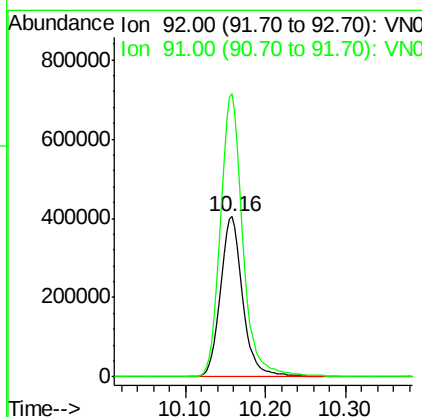
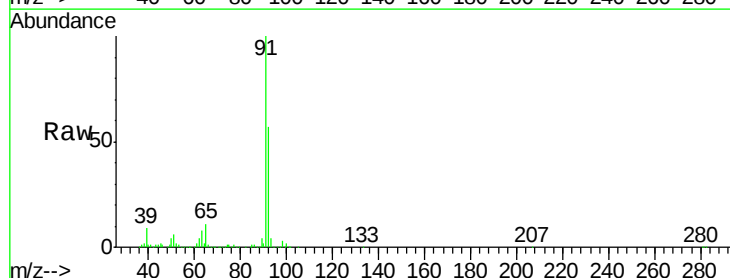
Manual Integrations
APPROVED

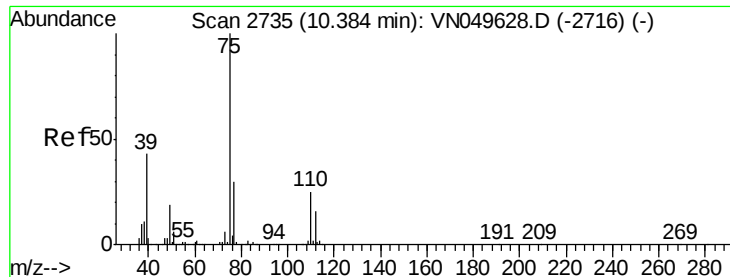
sam
7/6/2018 4:26:02 PM



#52
Toluene
Concen: 20.482 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion: 92 Resp: 781431
Ion Ratio Lower Upper
92 100
91 177.6 140.1 210.1





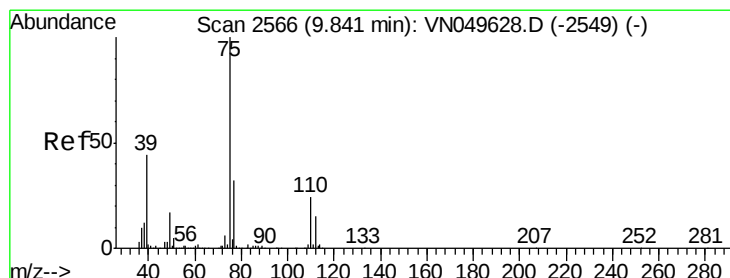
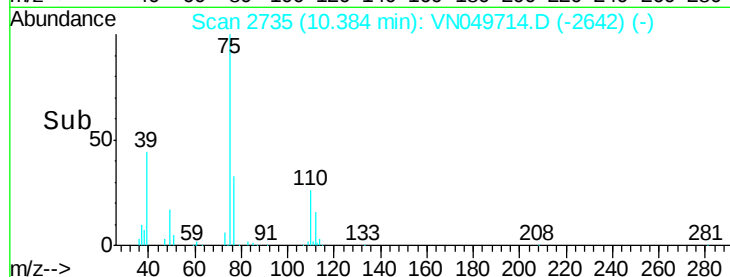
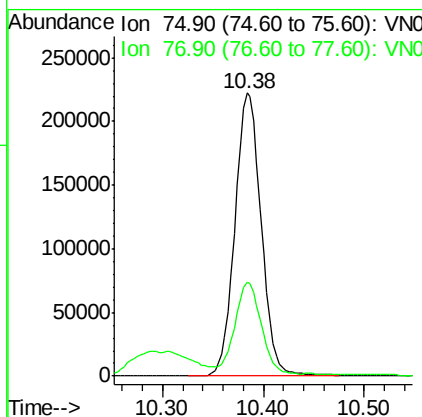
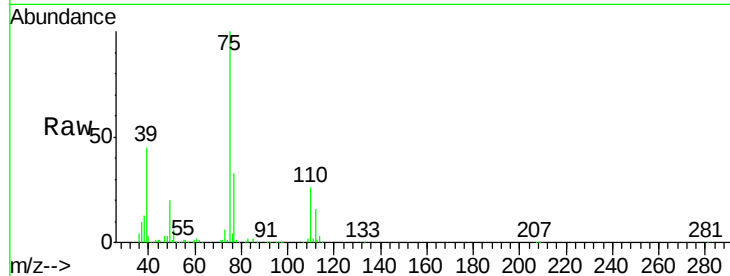
#53
t-1,3-Dichloropropene
Concen: 19.927 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.2	37.8

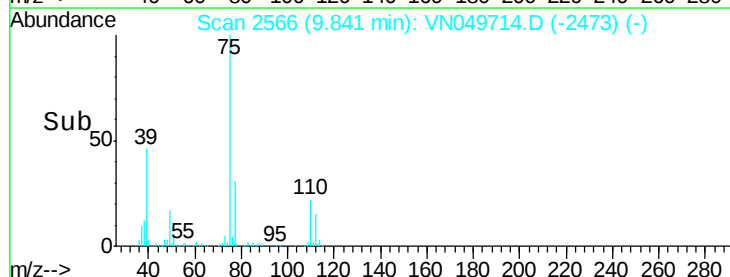
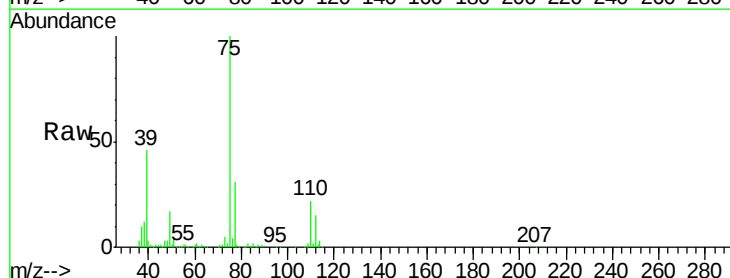
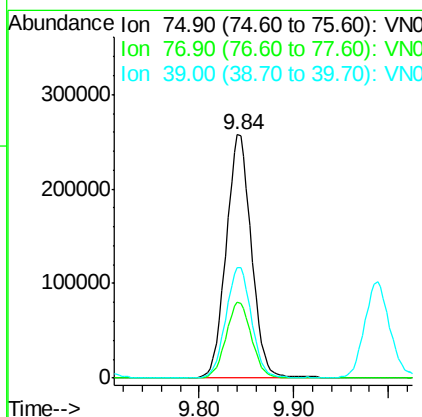
Manual Integrations
APPROVED

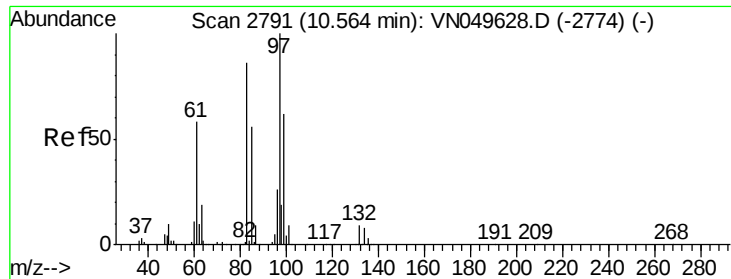
sam
7/6/2018 4:26:02 PM



#54
cis-1,3-Dichloropropene
Concen: 20.302 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.3	37.9
39	45.5	35.5	53.3





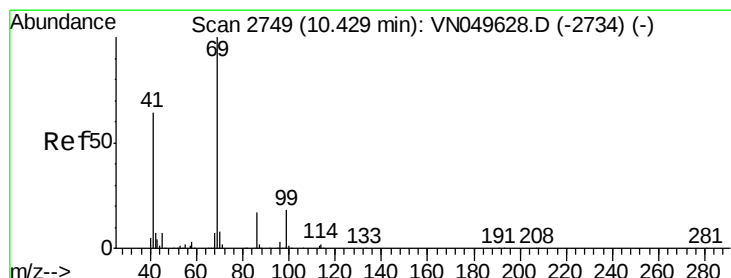
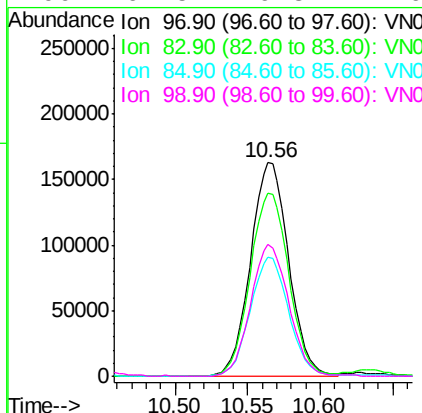
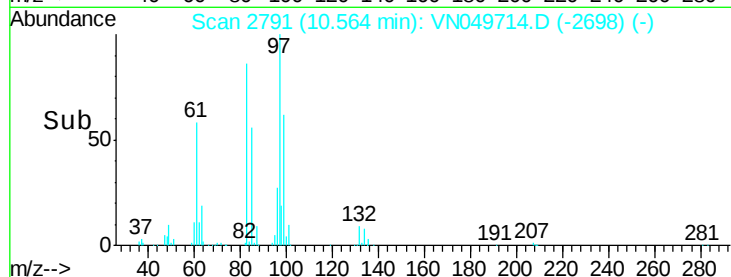
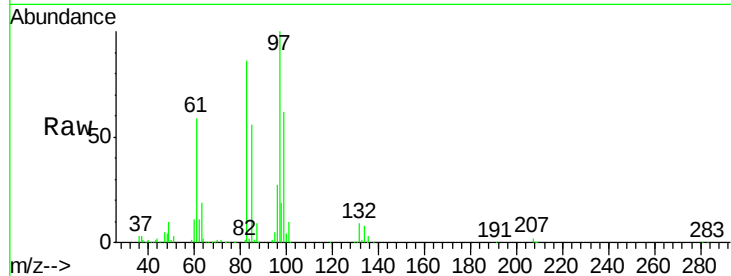
#55
 1,1,2-Trichloroethane
 Concen: 20.994 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.0	69.0	103.6
85	56.0	44.9	67.3
99	61.5	49.8	74.6

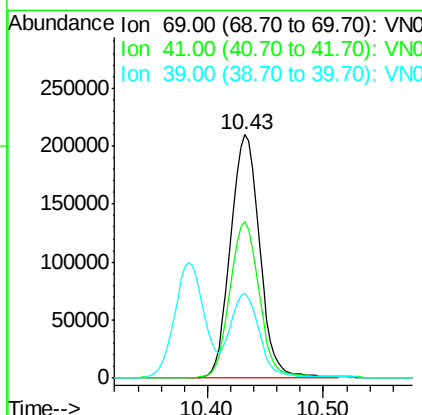
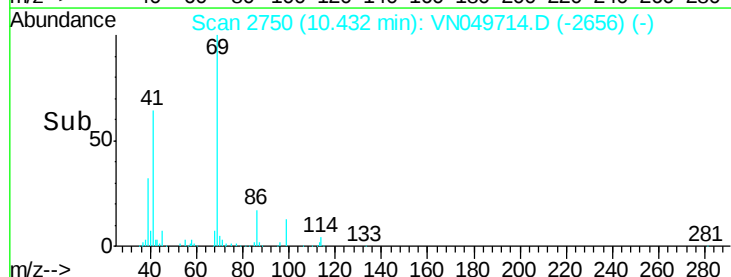
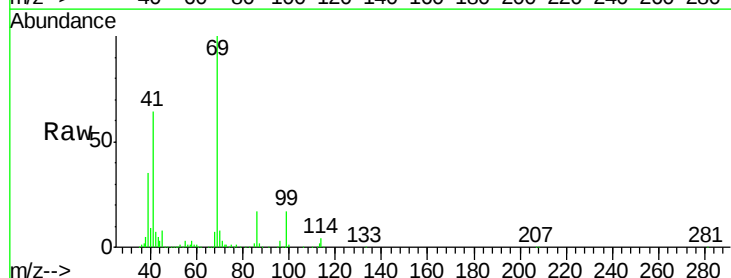
Manual Integrations
 APPROVED

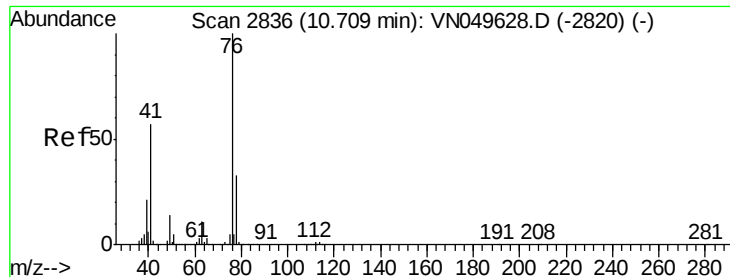
sam
 7/6/2018 4:26:02 PM



#56
 Ethyl methacrylate
 Concen: 21.942 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
69	100		
41	63.6	51.6	77.4
39	34.0	25.8	38.8





#57

1,3-Dichloropropane

Concen: 21.373 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampled :

VN0705WBSD01

Tot Ion: 76 Resp: 492311

Ion Ratio Lower Upper

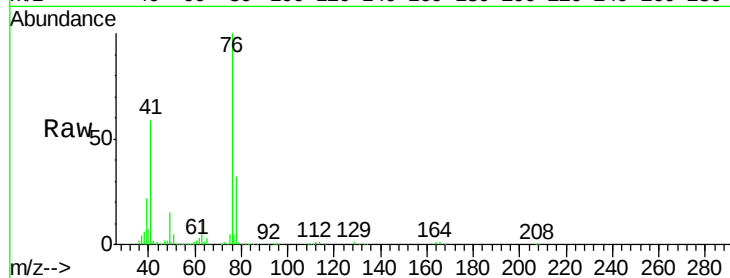
76 100

78 32.1 25.8 38.8

Manual Integrations
APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

250000

200000

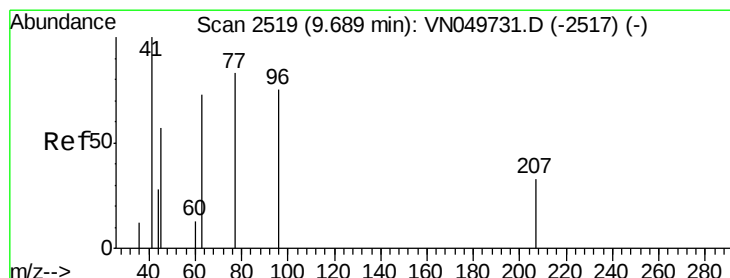
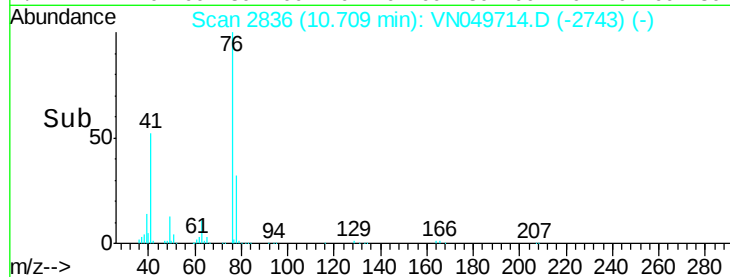
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 91.427 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN049714.D

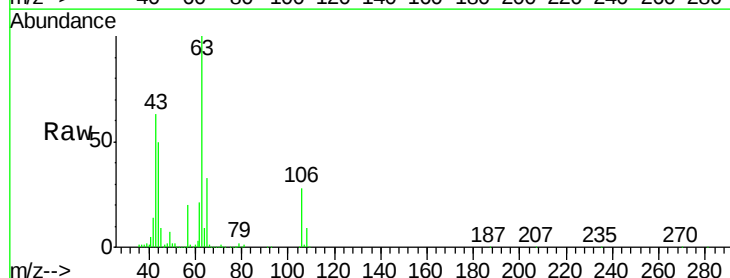
Acq: 5 Jul 2018 15:41

Tgt Ion: 63 Resp: 731168

Ion Ratio Lower Upper

63 100

106 27.3 21.8 32.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

400000

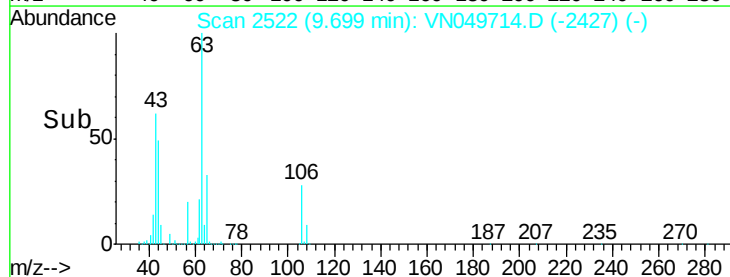
300000

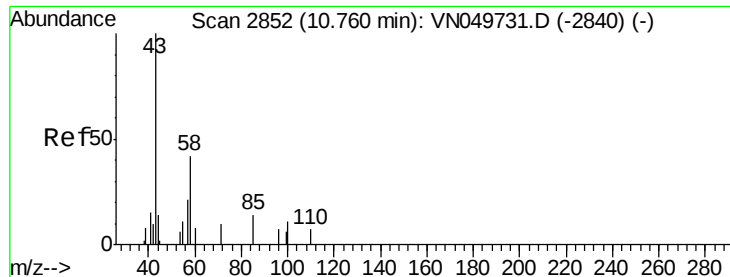
200000

100000

0

Time-->





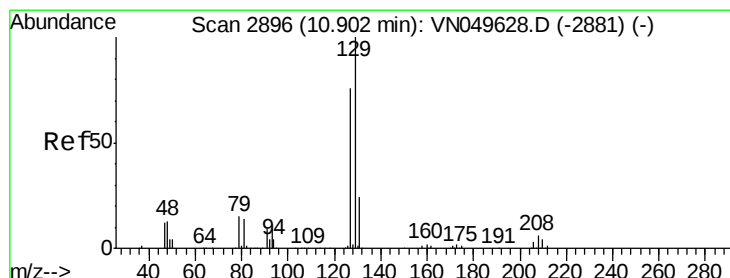
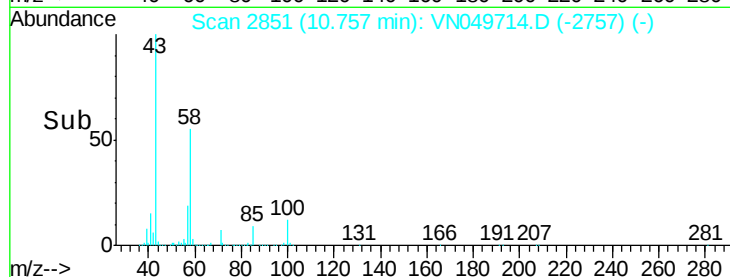
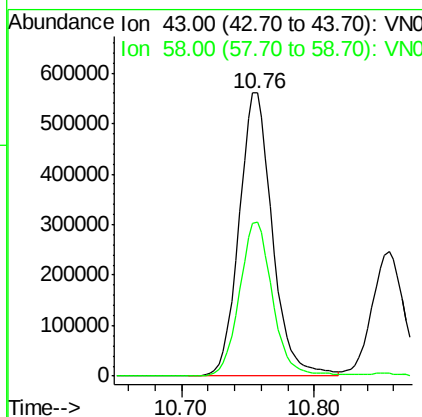
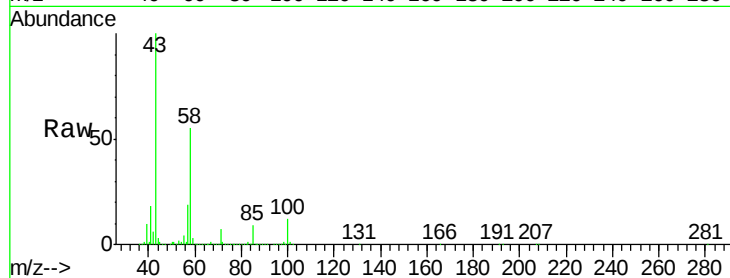
#59
2-Hexanone
Concen: 124.056 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampleId :
VN0705WBSD01

Tot Ion: 43 Resp: 970194
Ion Ratio Lower Upper
43 100
58 54.4 27.8 83.4

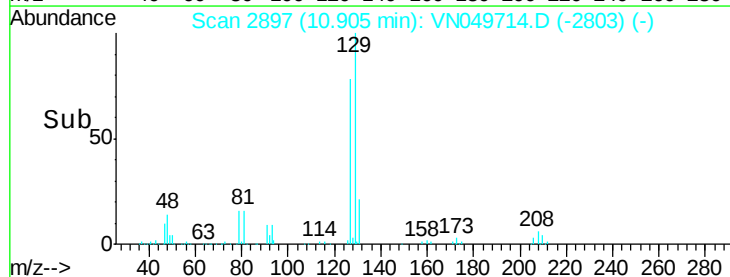
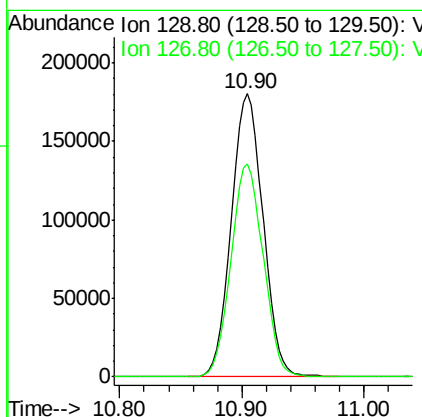
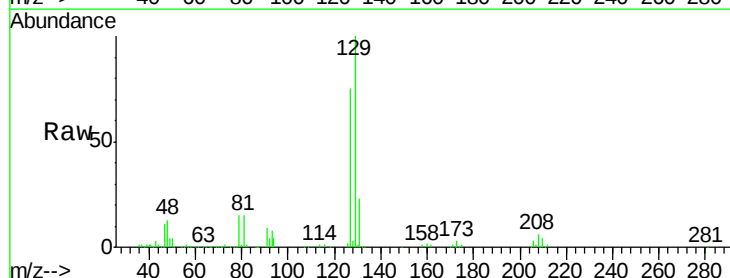
Manual Integrations
APPROVED

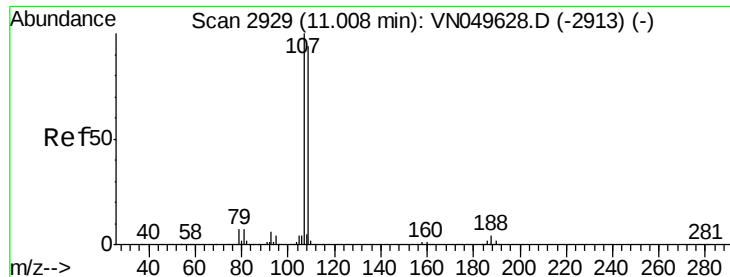
sam
7/6/2018 4:26:02 PM



#60
Dibromochloromethane
Concen: 21.272 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion: 129 Resp: 326600
Ion Ratio Lower Upper
129 100
127 76.4 38.3 114.9





#61

1,2-Dibromoethane

Concen: 21.155 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion: 107 Resp: 287947

Ion Ratio Lower Upper

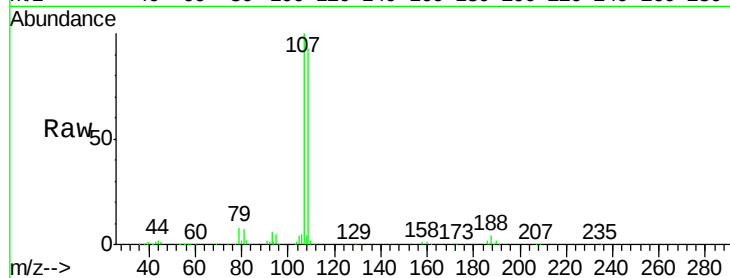
107 100

109 94.3 75.0 112.6

Manual Integrations
APPROVED

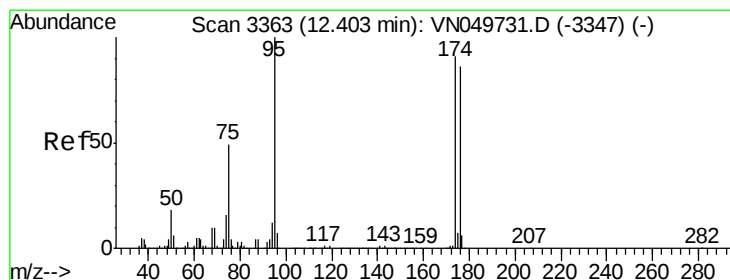
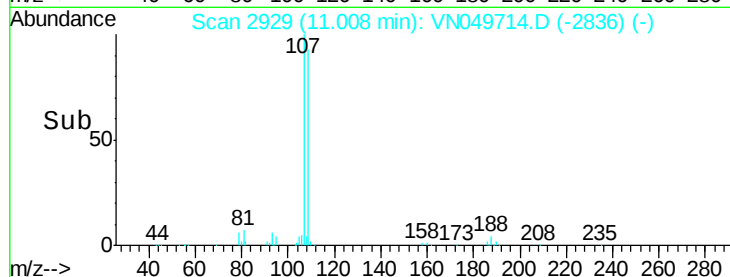
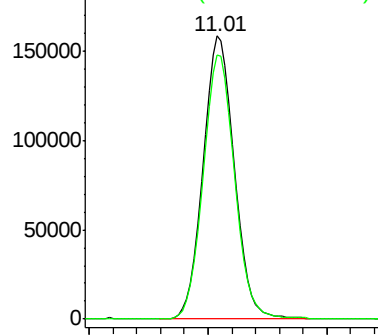
sam

7/6/2018 4:26:02 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 44.074 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

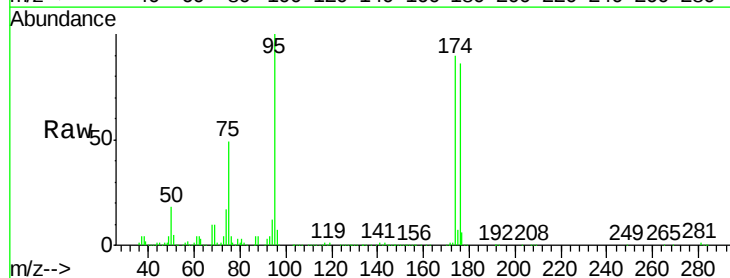
Tgt Ion: 95 Resp: 809446

Ion Ratio Lower Upper

95 100

174 90.6 0.0 179.6

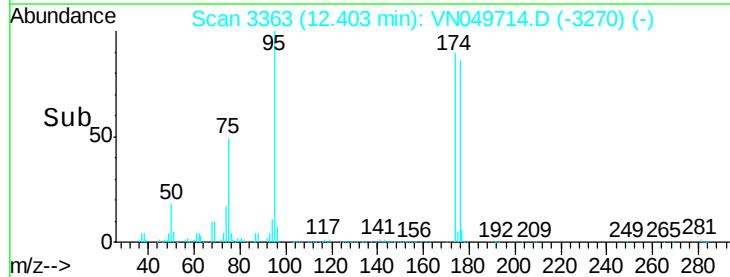
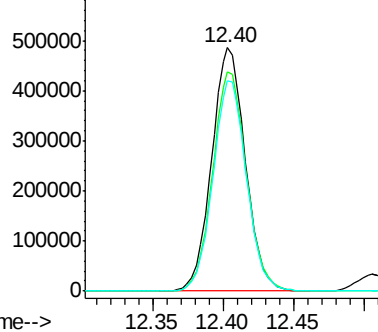
176 86.3 0.0 174.0

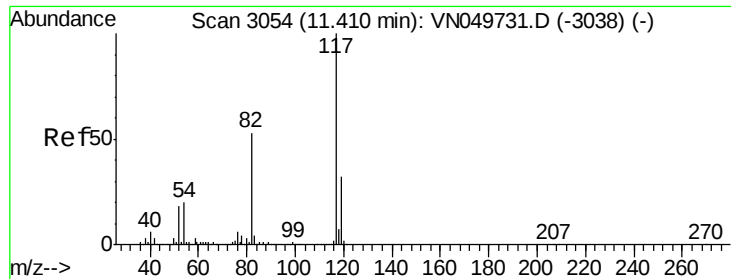


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion:117 Resp: 1628008

Ion Ratio Lower Upper

117 100

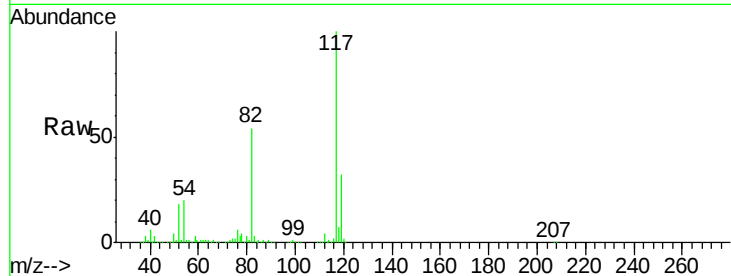
82 54.3 41.9 62.9

119 32.2 25.4 38.2

Manual Integrations
APPROVED

Sam

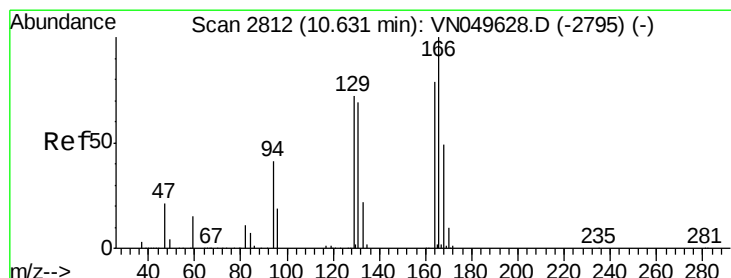
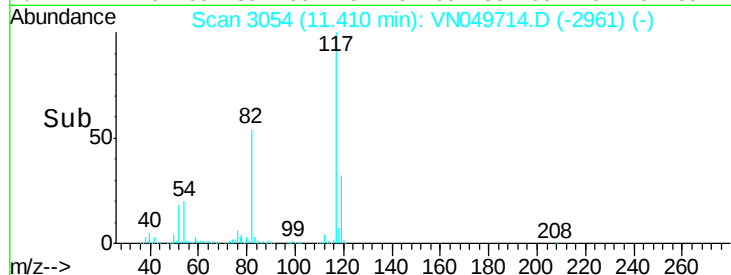
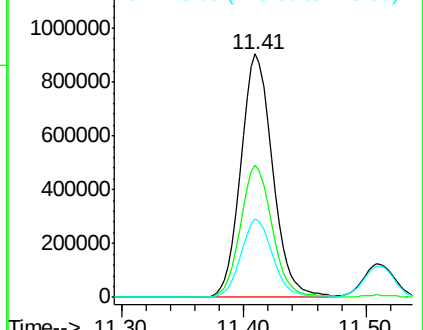
7/6/2018 4:26:02 PM



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 19.418 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:164 Resp: 428054

Ion Ratio Lower Upper

164 100

166 124.5 101.8 152.6

129 88.8 72.8 109.2

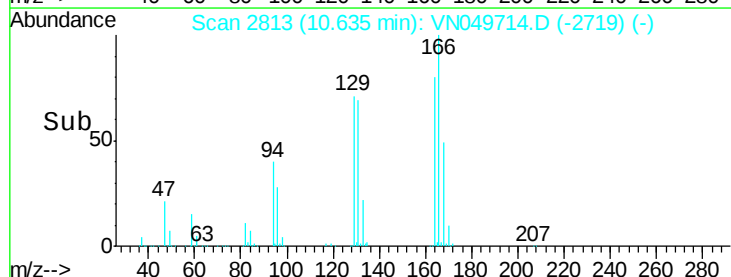
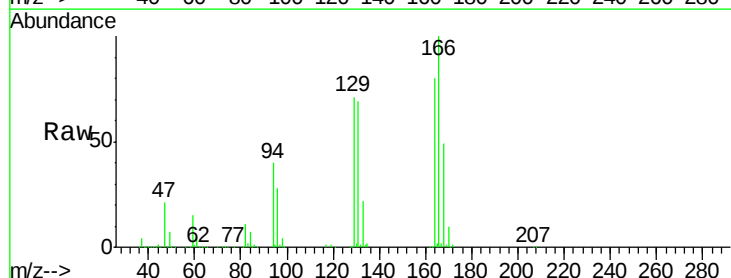
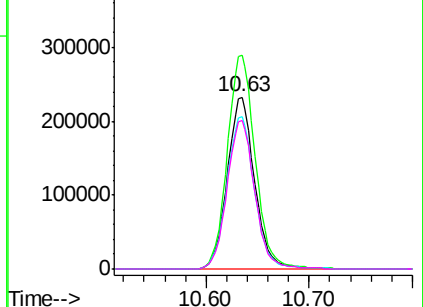
131 86.4 70.0 105.0

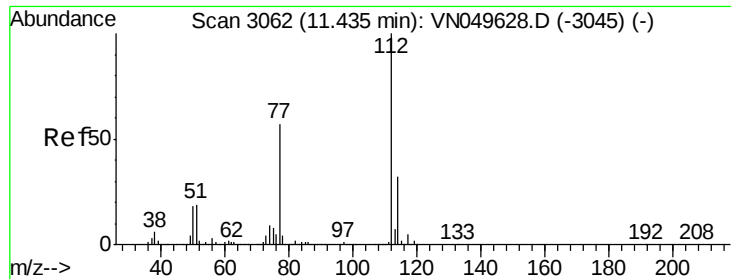
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





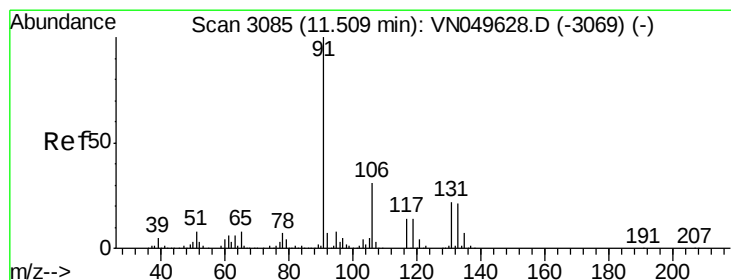
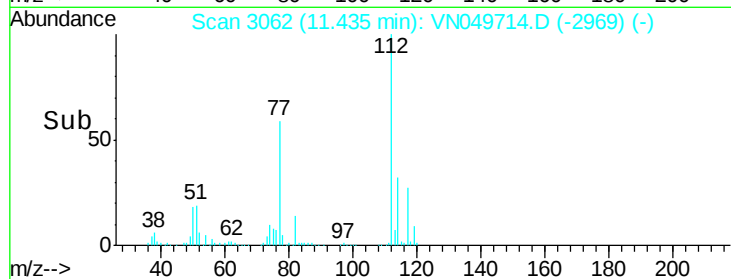
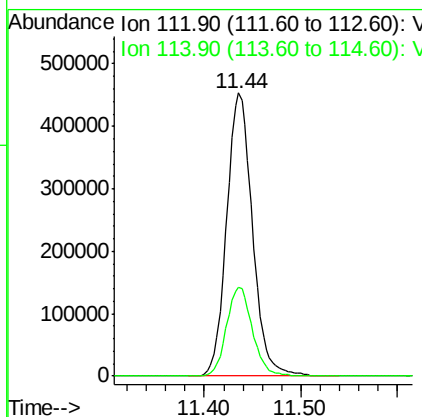
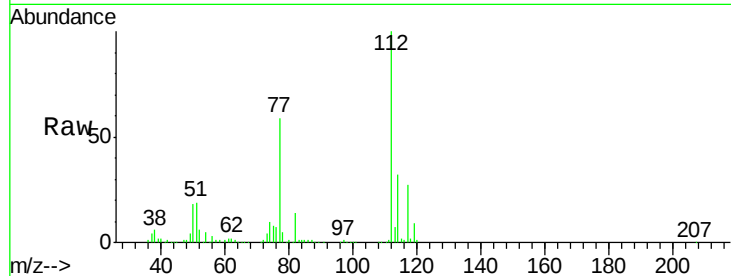
#65
Chlorobenzene
Concen: 19.790 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampled :
VN0705WBSD01

Tot Ion:112 Resp: 840484
Ion Ratio Lower Upper
112 100
114 31.6 25.4 38.0

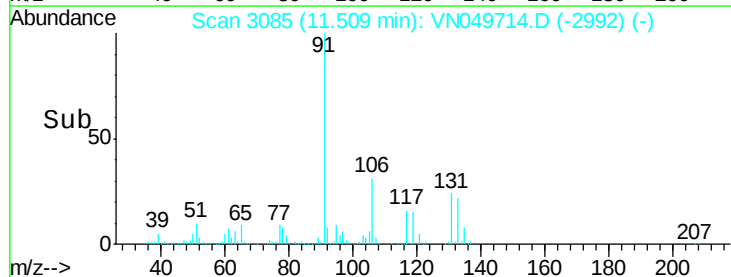
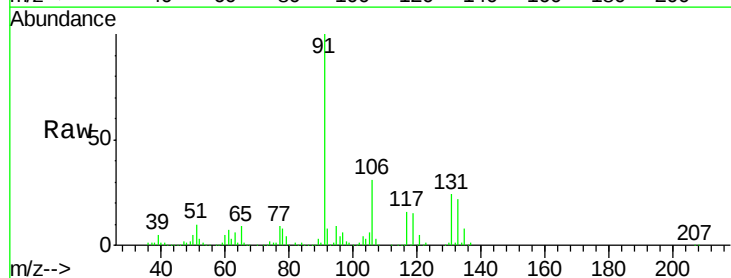
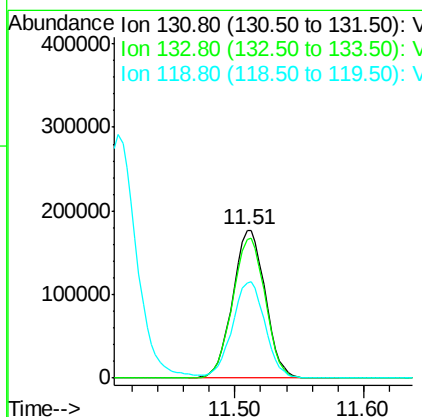
Manual Integrations
APPROVED

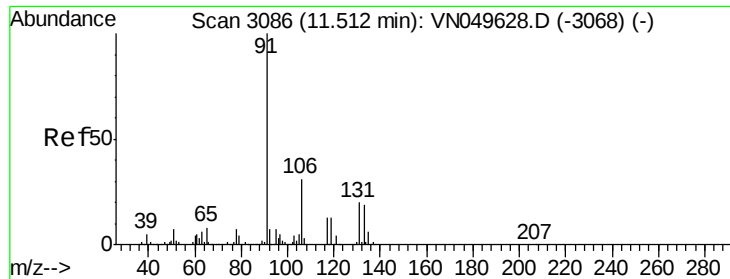
sam
7/6/2018 4:26:02 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.347 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion:131 Resp: 310495
Ion Ratio Lower Upper
131 100
133 95.2 47.5 142.6
119 65.7 33.1 99.3





#67

Ethyl Benzene

Concen: 19.889 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion: 91 Resp: 1396289

Ion Ratio Lower Upper

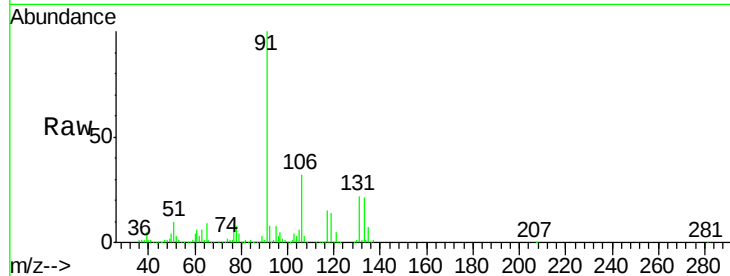
91 100

106 31.7 24.8 37.2

Manual Integrations
APPROVED

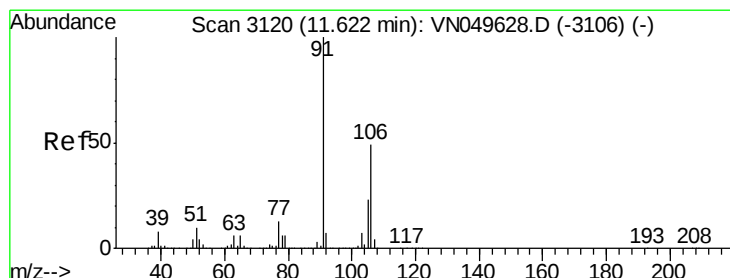
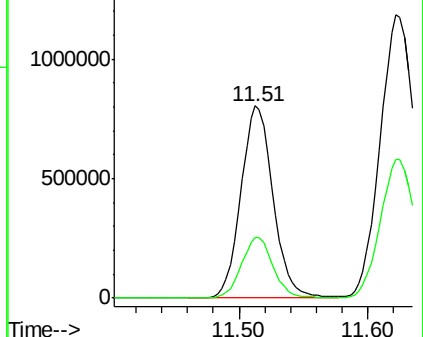
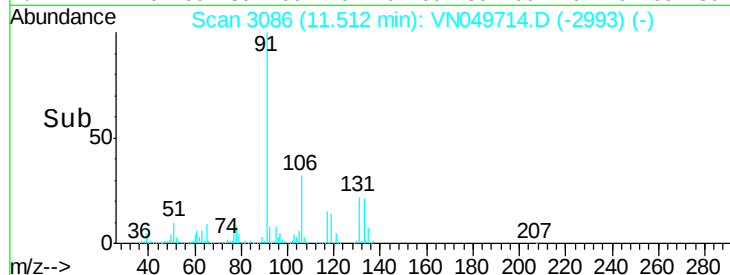
Sam

7/6/2018 4:26:02 PM



Abundance Ion 91.00 (90.70 to 91.70): VN049714.D (-2993) (-)

Ion 106.00 (105.70 to 106.70): VN049714.D (-2993) (-)



#68

m/p-Xylenes

Concen: 41.390 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN049714.D

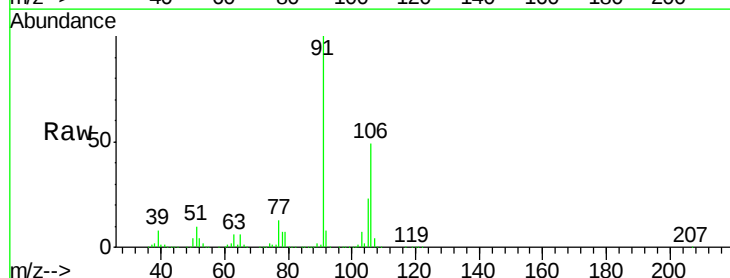
Acq: 5 Jul 2018 15:41

Tgt Ion: 106 Resp: 1113566

Ion Ratio Lower Upper

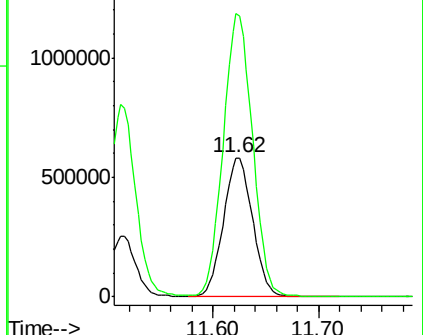
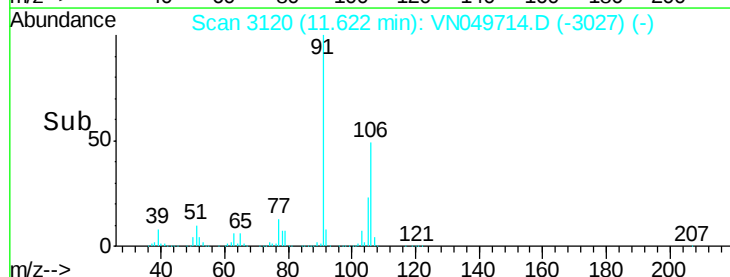
106 100

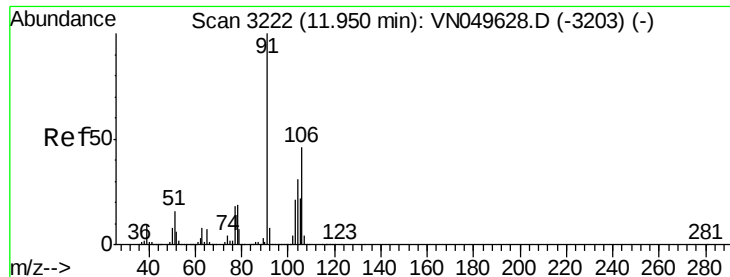
91 204.5 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): VN049714.D (-3027) (-)

Ion 91.00 (90.70 to 91.70): VN049714.D (-3027) (-)





#69

o-Xylene

Concen: 20.488 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampled :

VN0705WBSD01

Tot Ion:106 Resp: 527730

Ion Ratio Lower Upper

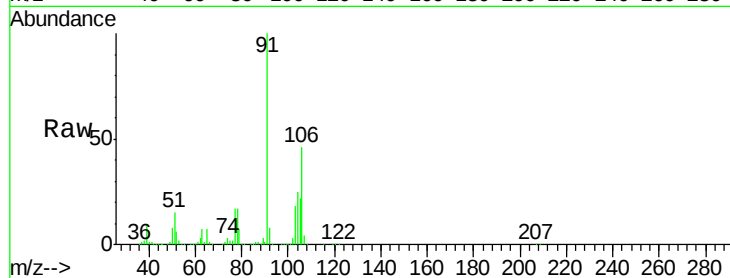
106 100

91 214.6 108.7 326.1

Manual Integrations
APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

800000

600000

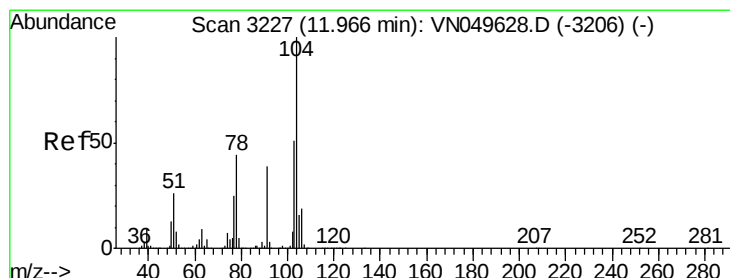
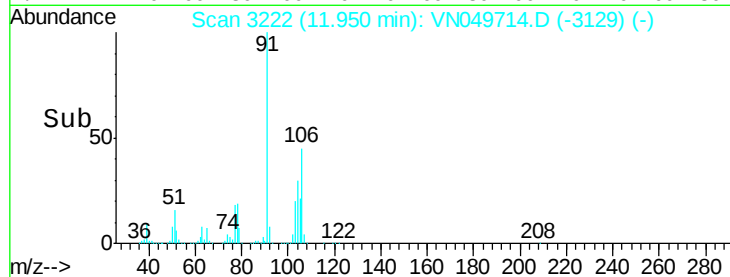
400000

200000

0

11.95

Time-->



#70

Styrene

Concen: 20.477 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

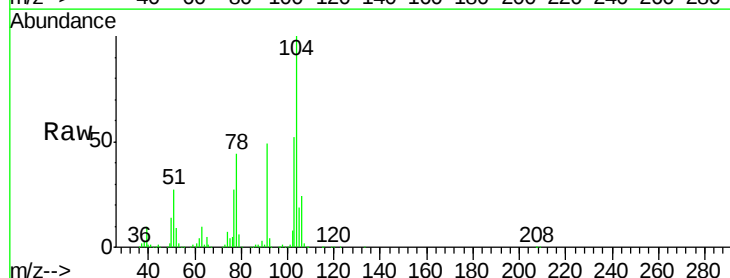
Tgt Ion:104 Resp: 853424

Ion Ratio Lower Upper

104 100

78 49.8 39.2 58.8

103 56.9 44.6 67.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

600000

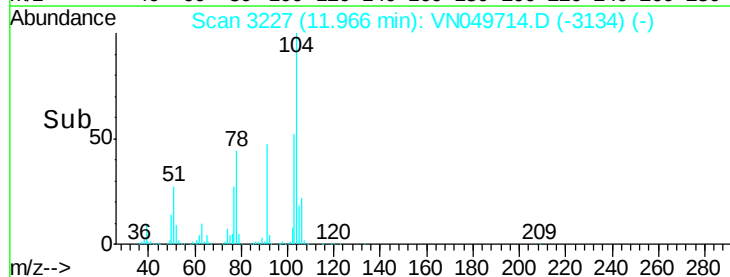
400000

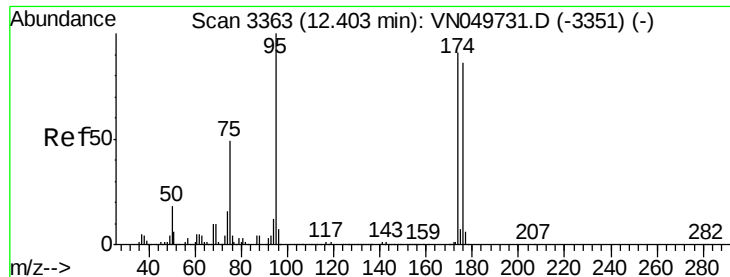
200000

0

11.97

Time-->





#71

Bromoform

Concen: 21.340 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

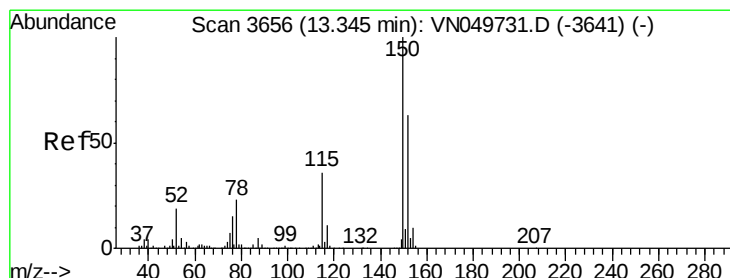
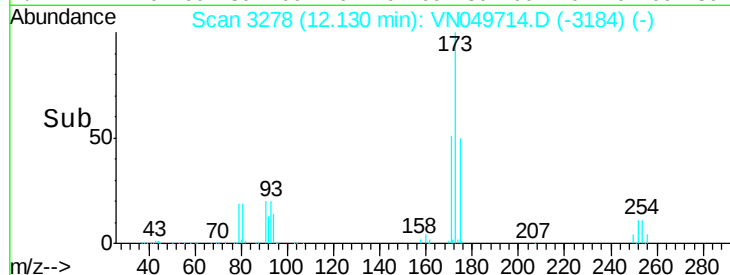
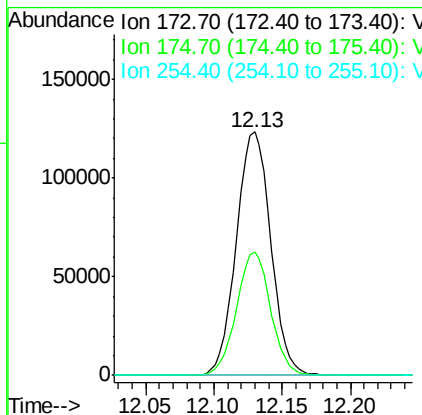
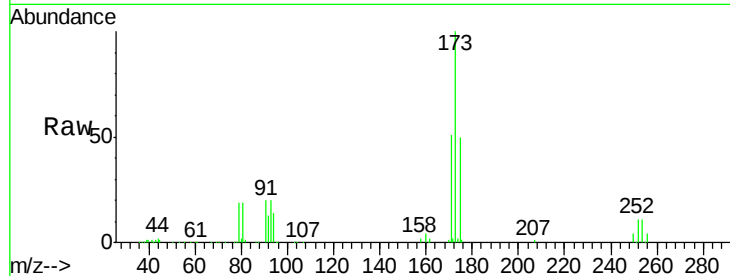
ClientSampleId :

VN0705WBSD01

Tot Ion:	173	Resp:	216380
Ion Ratio	Lower	Upper	
173	100		
175	49.9	24.6	73.8
254	0.1	0.2	0.2#

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

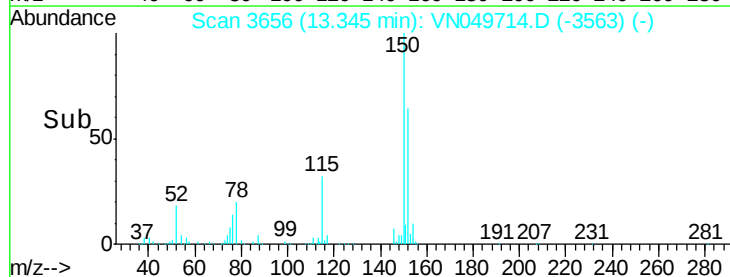
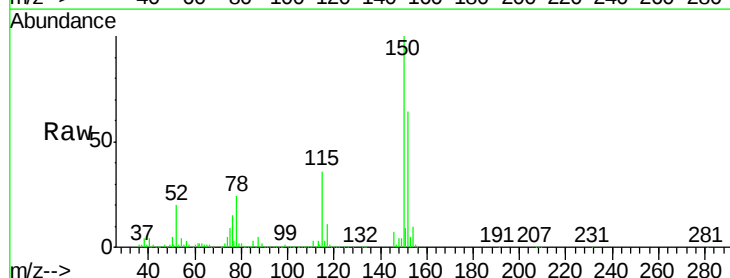
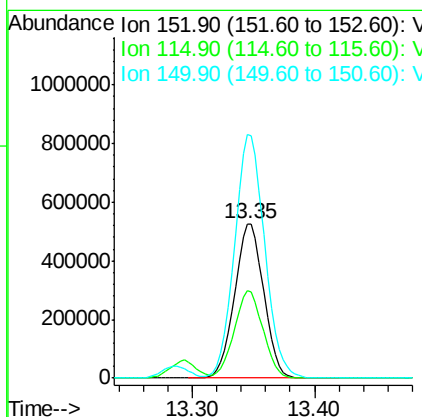
RT: 13.35 min Scan# 3656

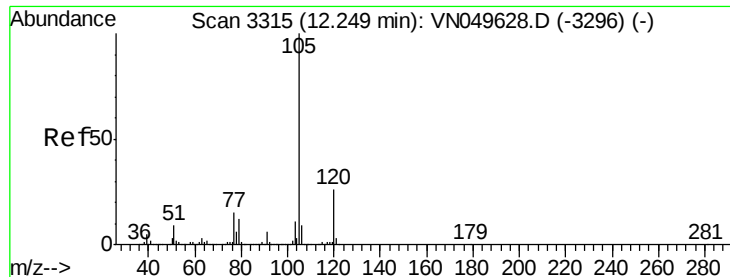
Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	152	Resp:	867845
Ion Ratio	Lower	Upper	
152	100		
115	56.0	28.1	84.2
150	163.5	0.0	347.6





#73

Isopropylbenzene

Concen: 20.193 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion:105 Resp: 1395894

Ion Ratio Lower Upper

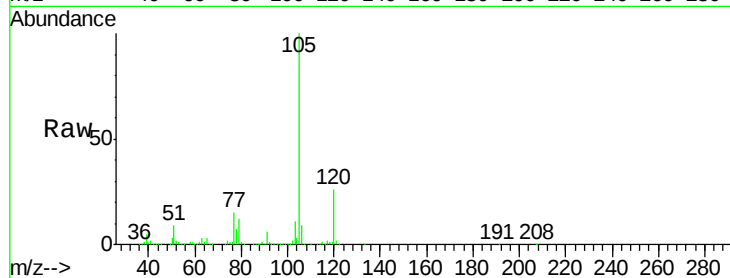
105 100

120 26.1 13.3 39.8

Manual Integrations
APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

800000

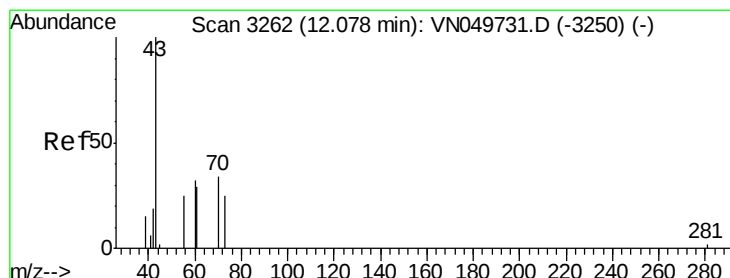
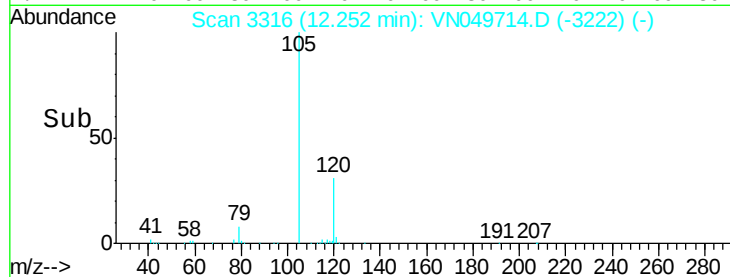
600000

400000

200000

0

Time-->



#74

N-ethyl acetate

Concen: 21.787 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion: 43 Resp: 411392

Ion Ratio Lower Upper

43 100

70 41.8 34.8 52.2

55 26.5 20.9 31.3

61 24.1 19.9 29.9

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

400000

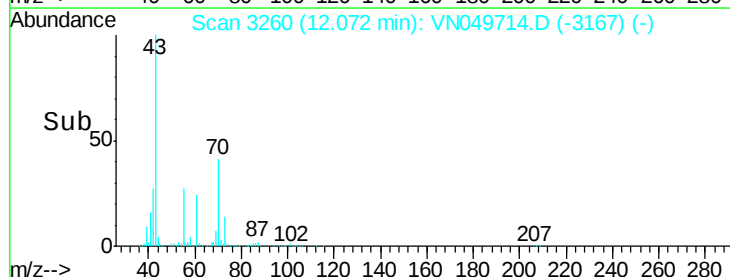
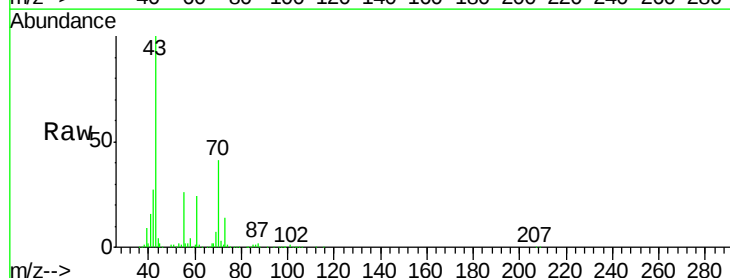
300000

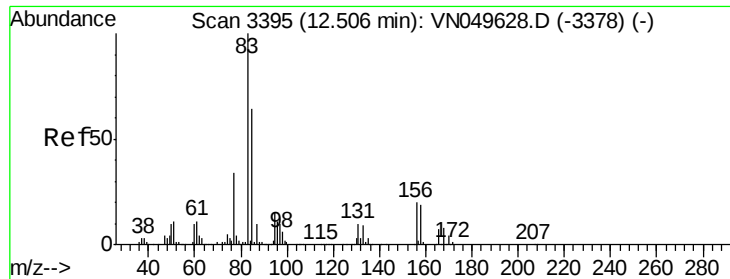
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 24.365 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion: 83 Resp: 360072
Ion Ratio Lower Upper

83 100

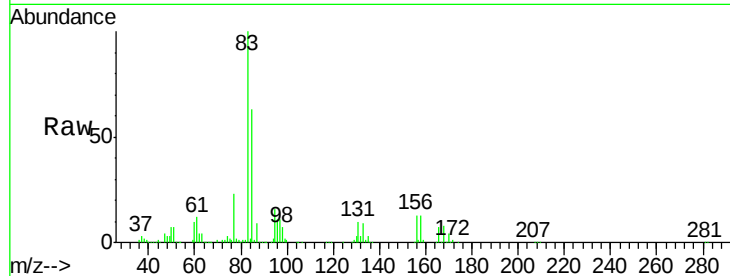
131 10.8 5.2 15.6

85 64.1 32.5 97.4

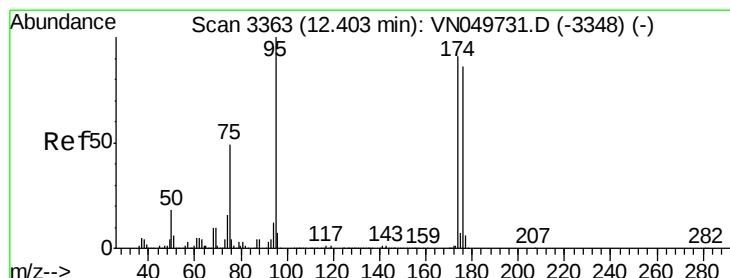
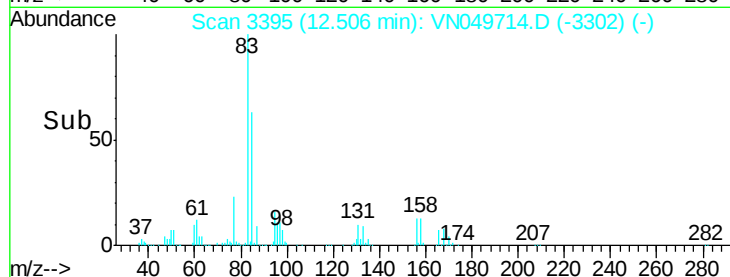
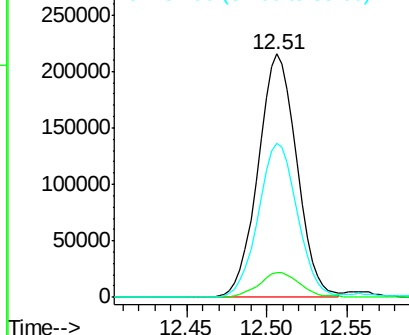
Manual Integrations
APPROVED

sam

7/6/2018 4:26:02 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 25.081 ug/l m

RT: 12.56 min Scan# 3411

Delta R.T. 0.00 min

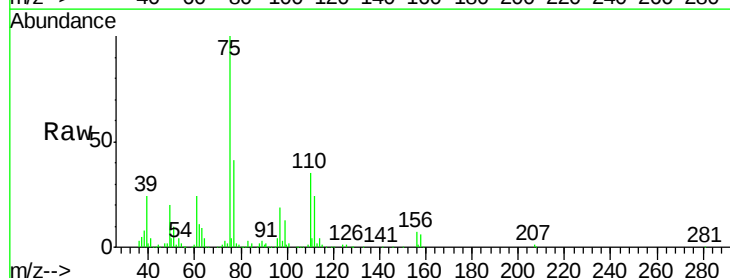
Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

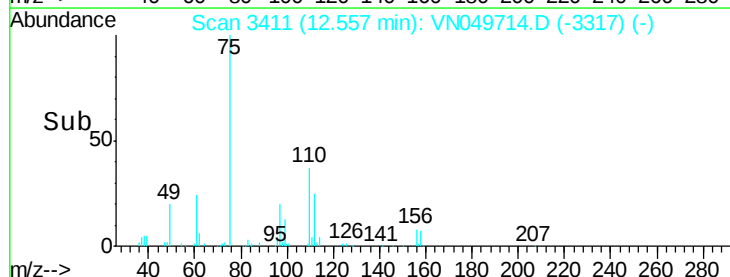
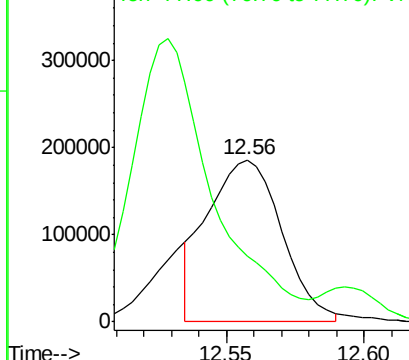
Tgt Ion: 75 Resp: 349089
Ion Ratio Lower Upper

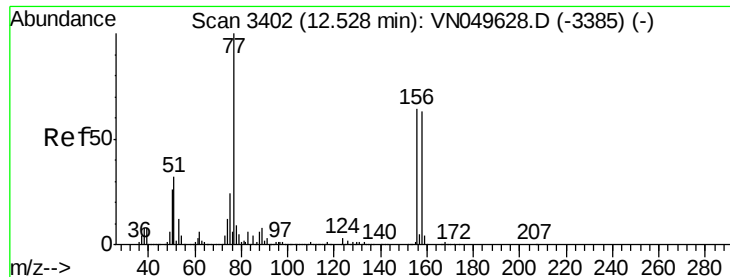
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 19.441 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion:156 Resp: 365445

Ion Ratio Lower Upper

156 100

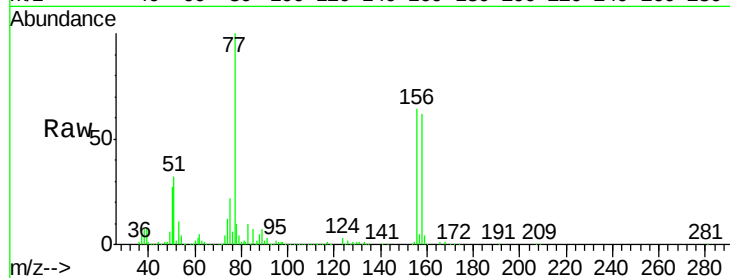
77 183.2 90.2 270.6

158 96.9 49.1 147.3

Manual Integrations
APPROVED

sam

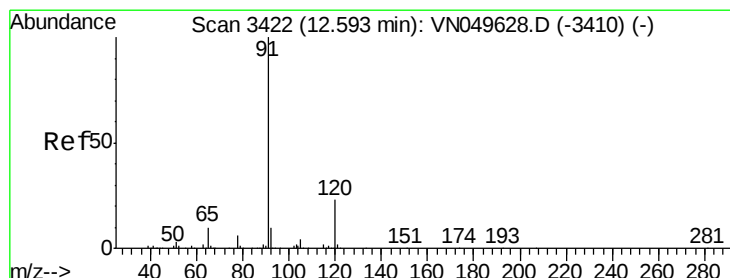
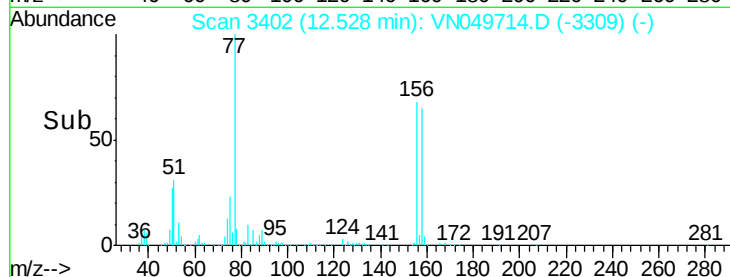
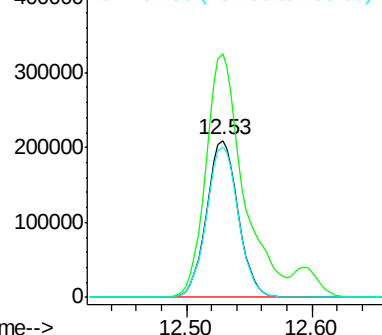
7/6/2018 4:26:02 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.378 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049714.D

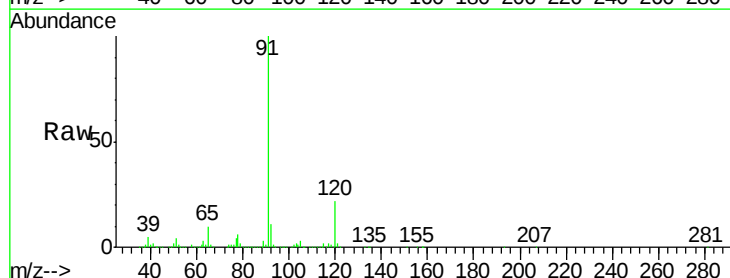
Acq: 5 Jul 2018 15:41

Tgt Ion: 91 Resp: 1614498

Ion Ratio Lower Upper

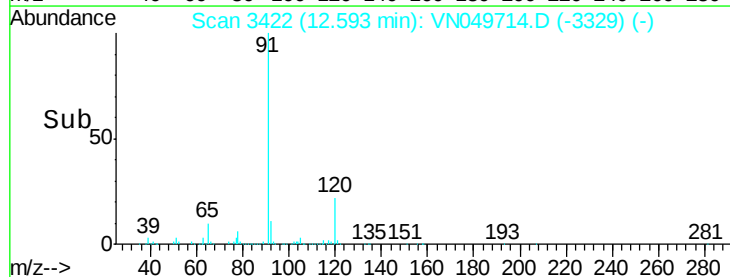
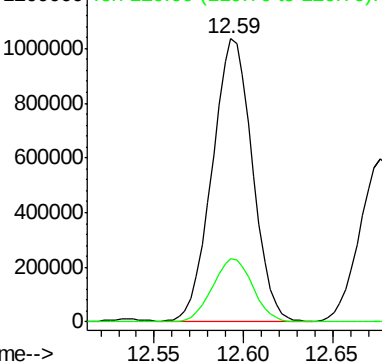
91 100

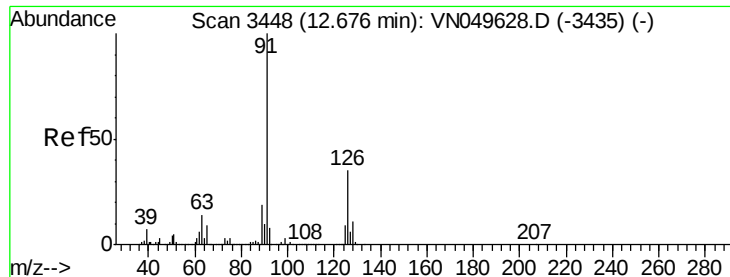
120 22.7 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.613 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion: 91 Resp: 983406

Ion Ratio Lower Upper

91 100

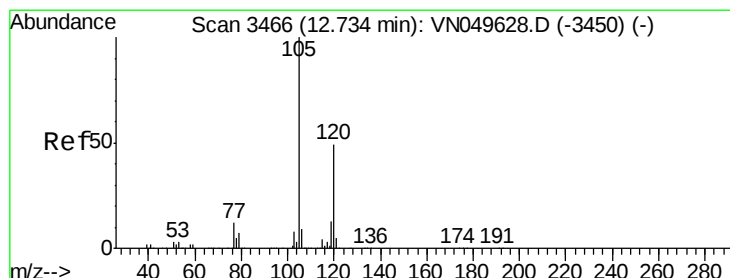
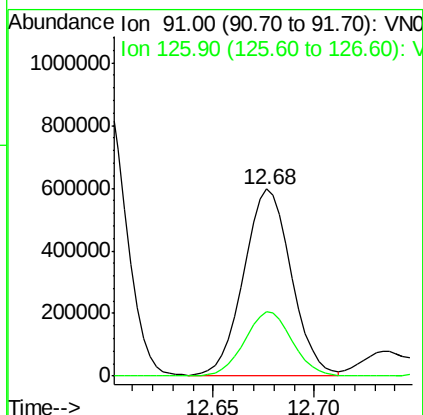
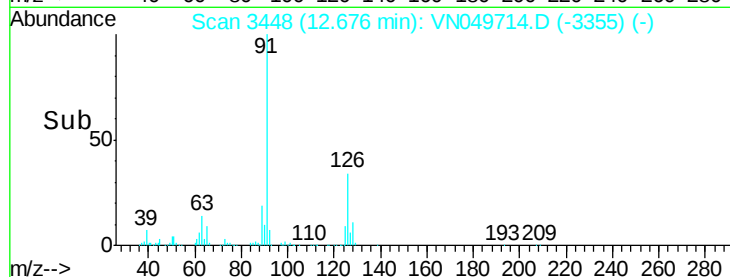
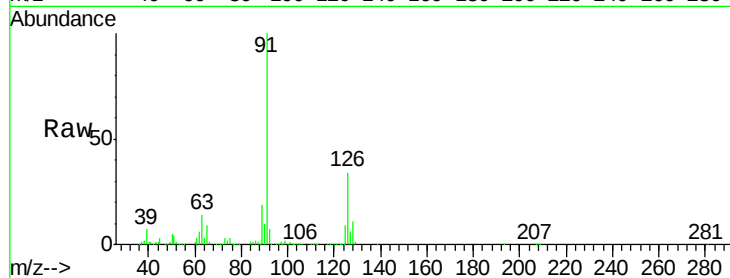
126 34.5 17.5 52.5

Manual Integrations

APPROVED

sam

7/6/2018 4:26:02 PM



#80

1,3,5-Trimethylbenzene

Concen: 20.794 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049714.D

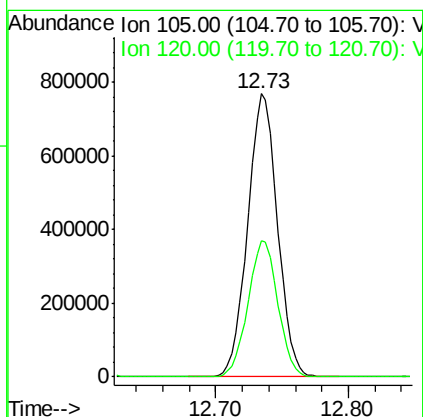
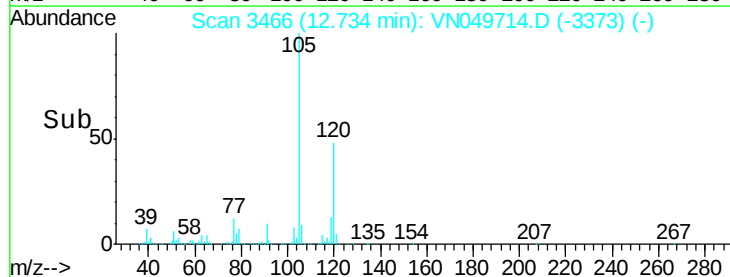
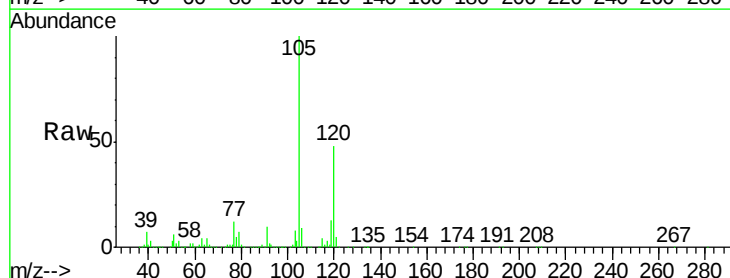
Acq: 5 Jul 2018 15:41

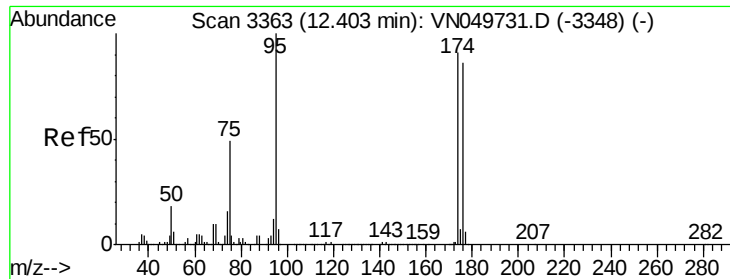
Tgt Ion: 105 Resp: 1194489

Ion Ratio Lower Upper

105 100

120 48.3 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 19.479 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

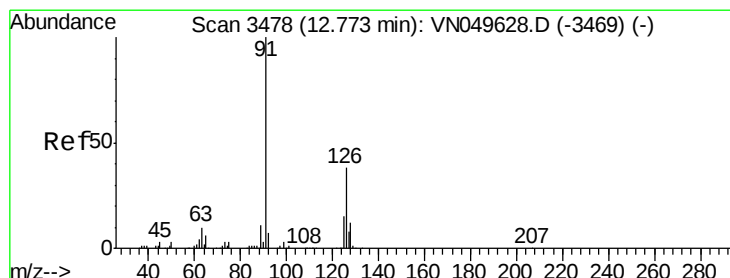
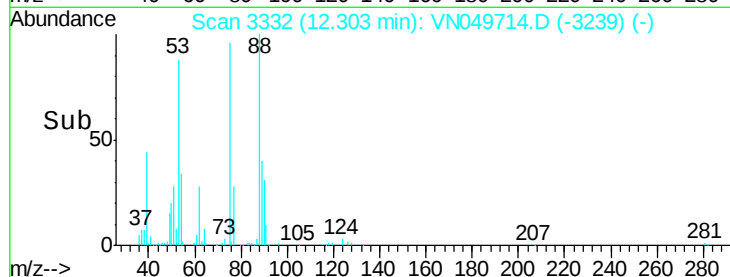
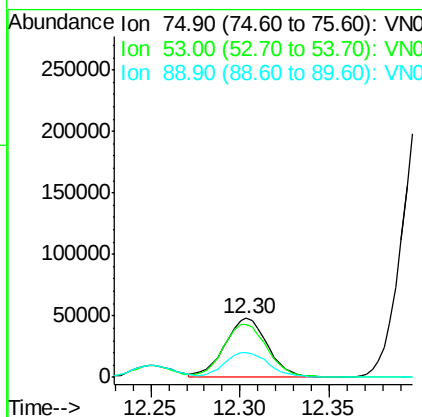
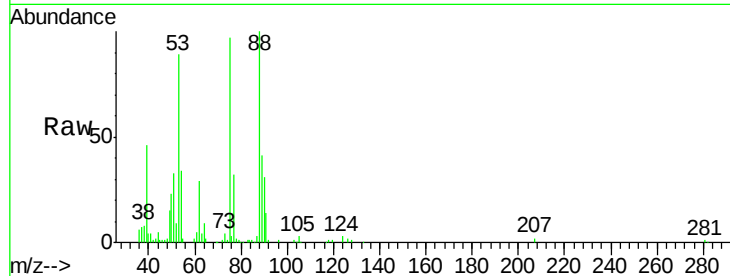
ClientSampleId :

VN0705WBSD01

Tot Ion:	75	Resp:	79824
Ion Ratio	Lower	Upper	
75	100		
53	91.4	73.9	110.9
89	43.9	35.9	53.9

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#82

4-Chlorotoluene

Concen: 19.597 ug/l

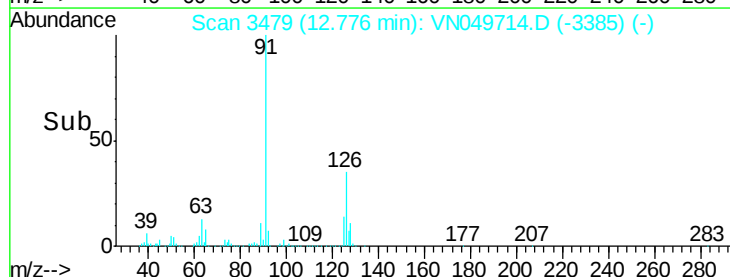
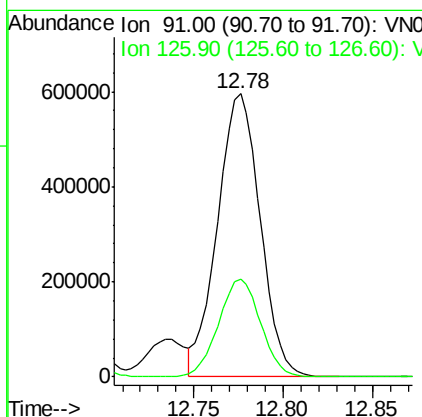
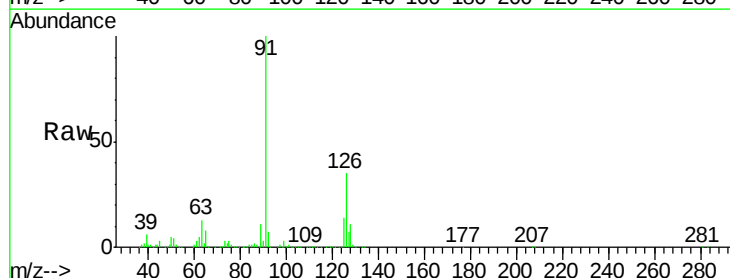
RT: 12.78 min Scan# 3479

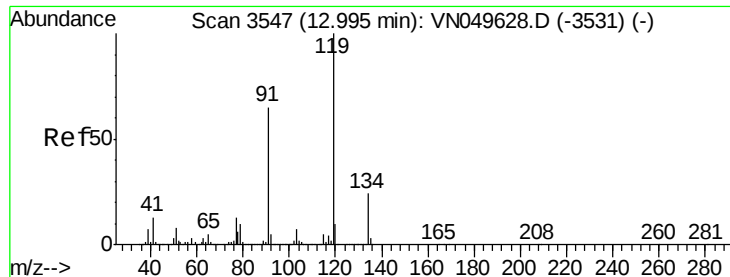
Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	91	Resp:	987999
Ion Ratio	Lower	Upper	
91	100		
126	34.2	17.2	51.6





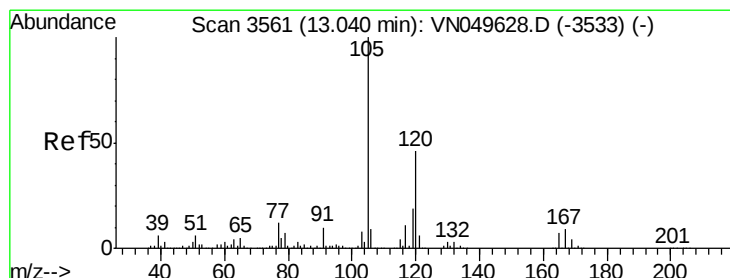
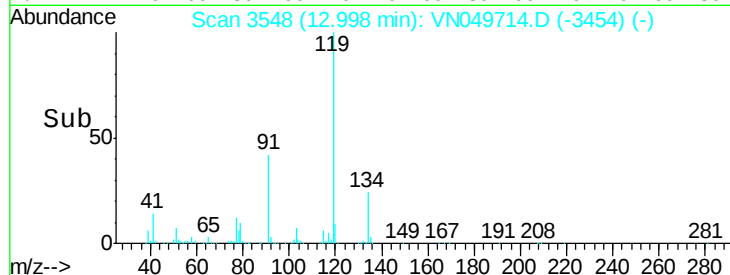
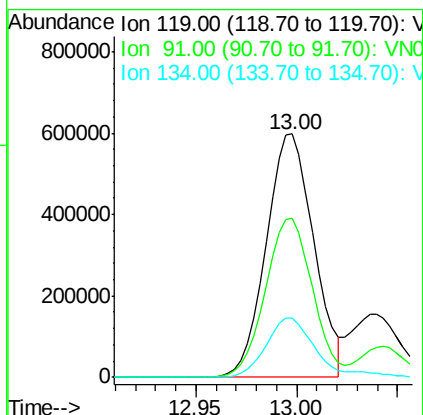
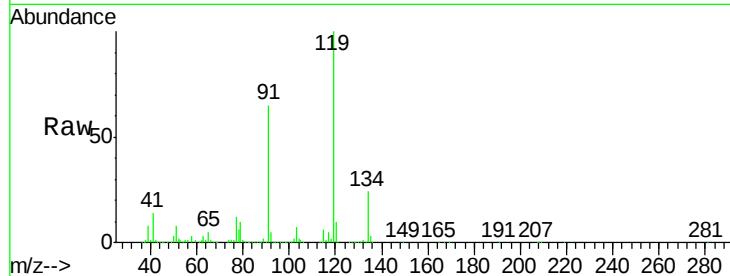
#83
tert-Butylbenzene
Concen: 19.789 ug/l
RT: 13.00 min Scan# 3548
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Instrument :
MSVOA_N
ClientSampled :
VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.0	96.2
134	25.9	12.8	38.4

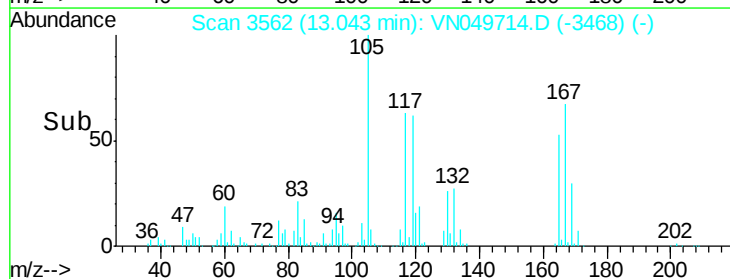
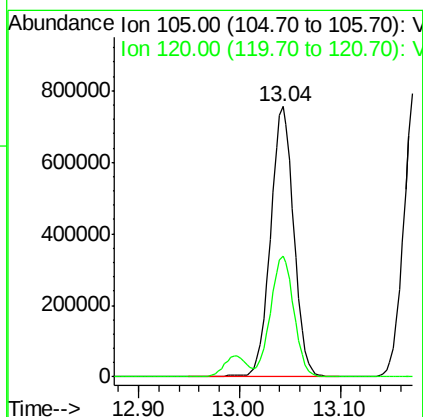
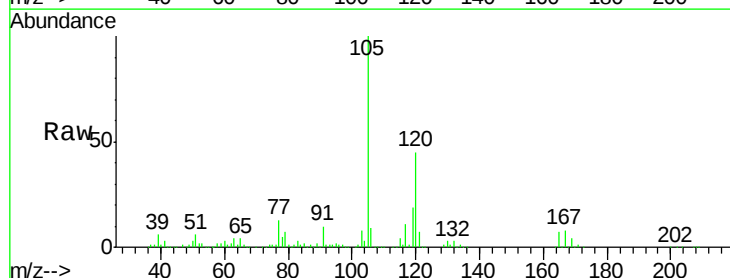
Manual Integrations
APPROVED

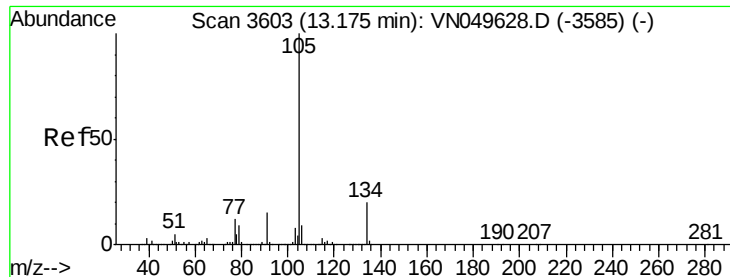
sam
7/6/2018 4:26:02 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.551 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN049714.D
Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.7	68.1





#85

sec-Butylbenzene

Concen: 20.384 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

ClientSampleId :

VN0705WBSD01

Tot Ion:105 Resp: 1332704

Ion Ratio Lower Upper

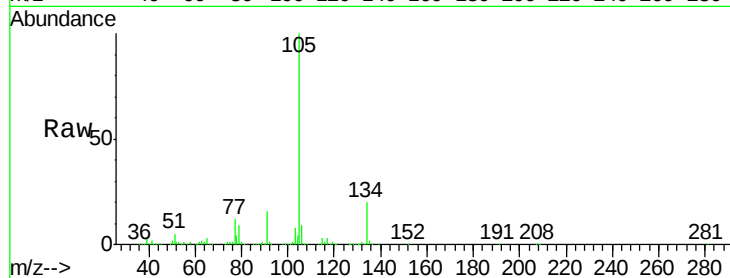
105 100

134 20.1 10.1 30.1

Manual Integrations
APPROVED

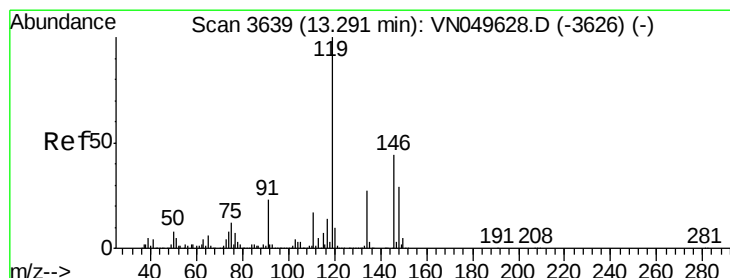
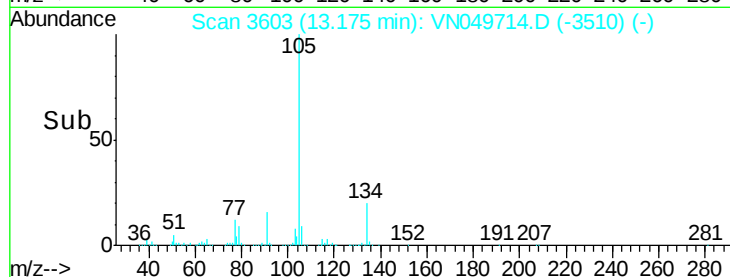
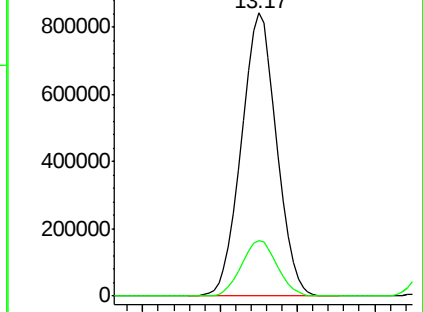
sam

7/6/2018 4:26:02 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.547 ug/l

RT: 13.29 min Scan# 3640

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

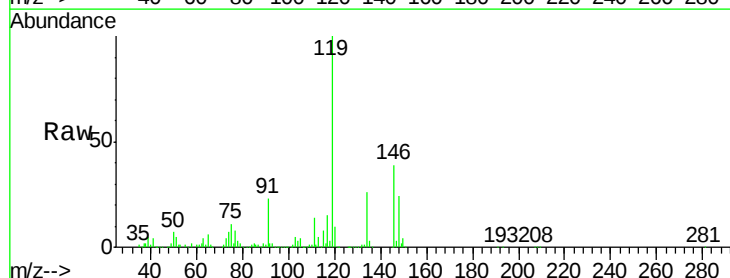
Tgt Ion:119 Resp: 1163589

Ion Ratio Lower Upper

119 100

134 26.1 13.3 39.9

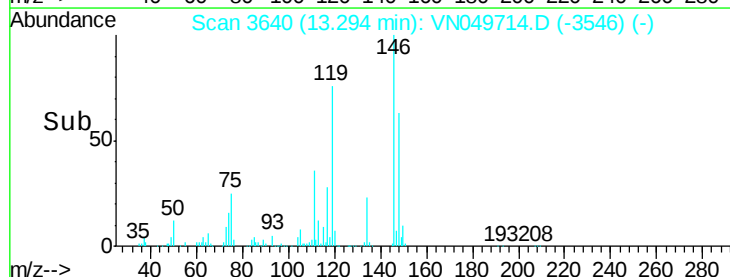
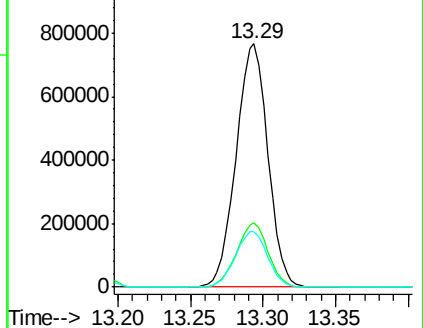
91 23.1 11.4 34.1

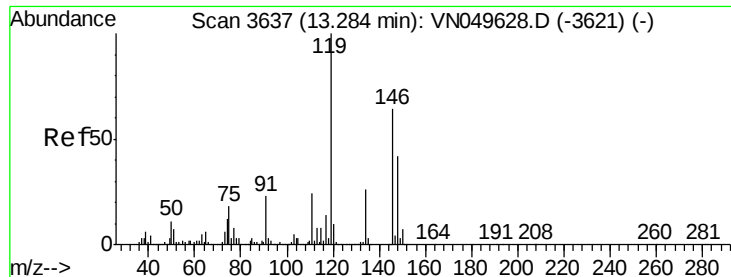


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 19.835 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

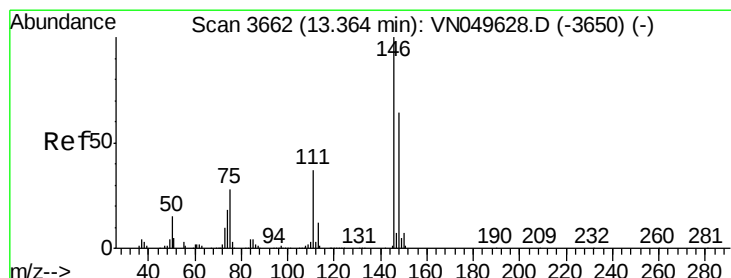
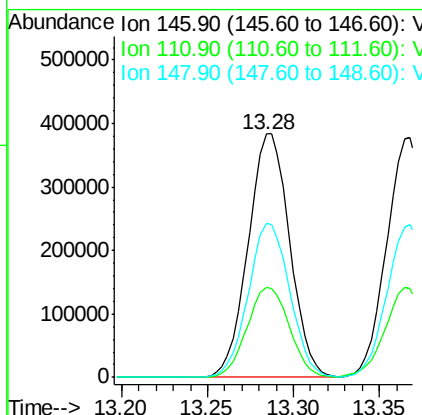
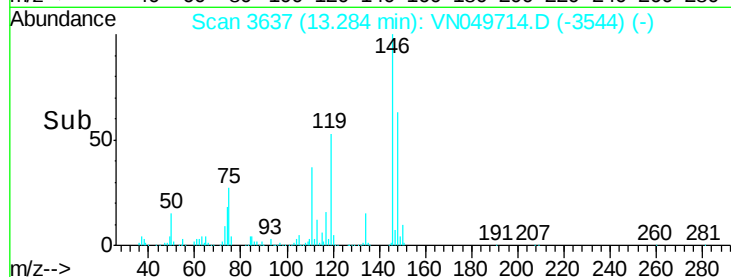
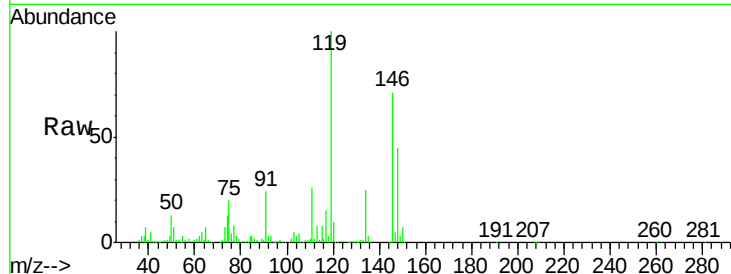
ClientSampled :

VN0705WBSD01

Tot Ion:	146	Resp:	642212
Ion Ratio	Lower	Upper	
146	100		
111	37.6	19.0	57.0
148	63.2	32.5	97.5

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#88

1,4-Dichlorobenzene

Concen: 19.799 ug/l

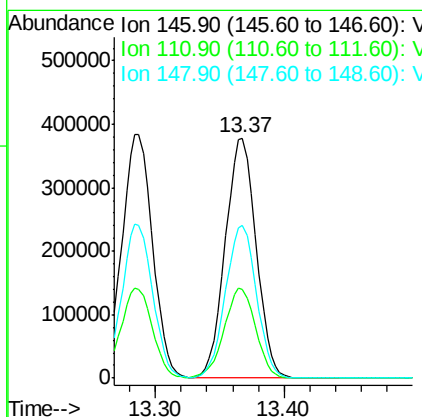
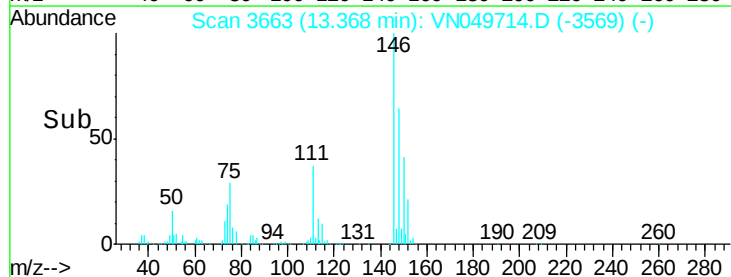
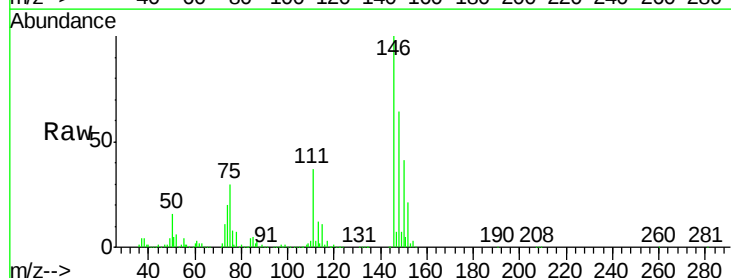
RT: 13.37 min Scan# 3663

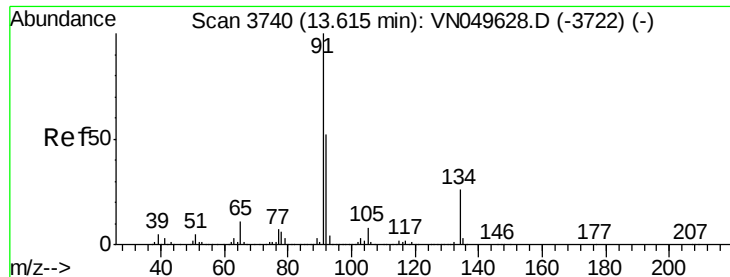
Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	146	Resp:	627395
Ion Ratio	Lower	Upper	
146	100		
111	38.1	18.9	56.5
148	64.0	32.1	96.3





#89

n-Butylbenzene

Concen: 18.563 ug/l

RT: 13.62 min Scan# 3741

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

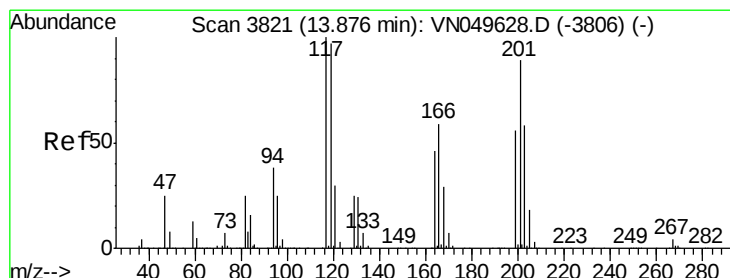
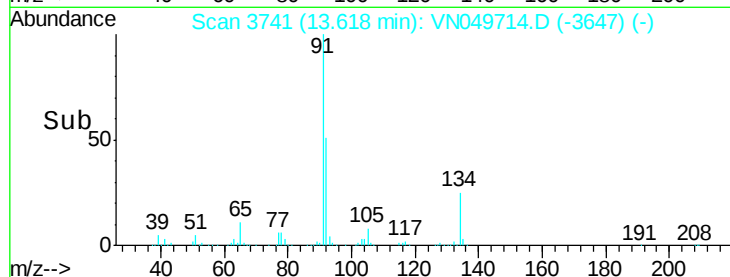
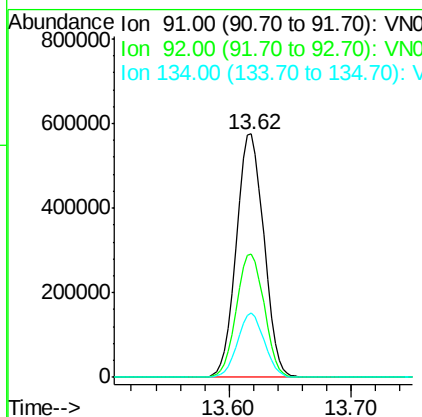
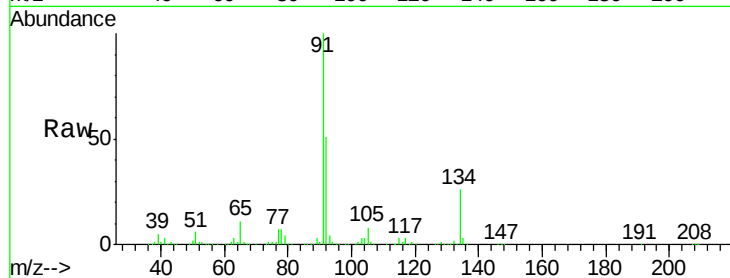
ClientSampleId :

VN0705WBSD01

Tot Ion:	91	Resp:	899993
Ion	Ratio	Lower	Upper
91	100		
92	51.1	25.8	77.3
134	25.5	13.0	38.9

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#90

Hexachloroethane

Concen: 20.727 ug/l

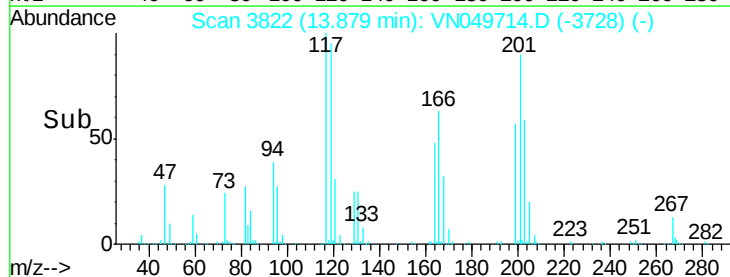
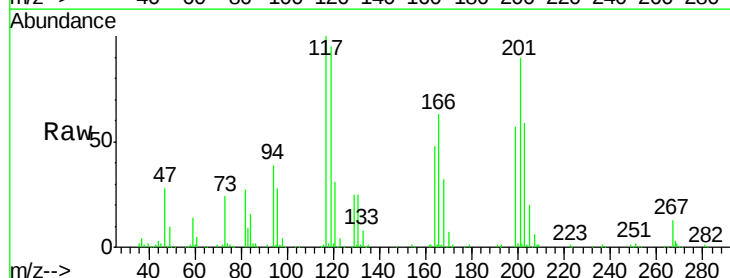
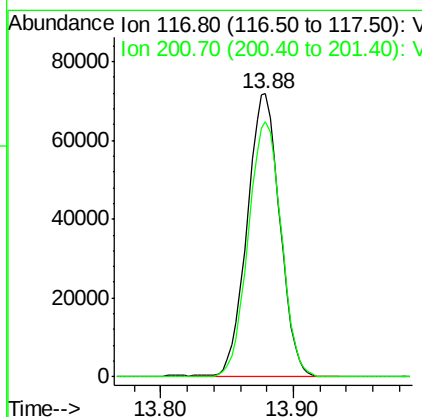
RT: 13.88 min Scan# 3822

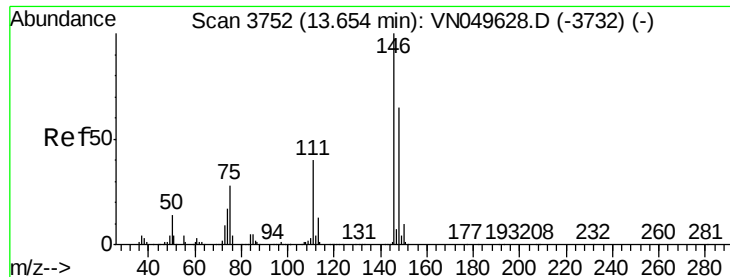
Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	117	Resp:	123292
Ion	Ratio	Lower	Upper
117	100		
201	90.7	45.3	135.8





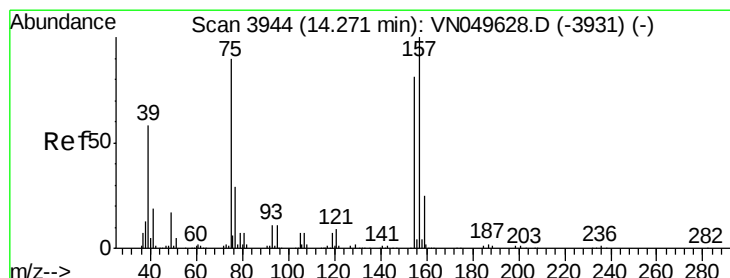
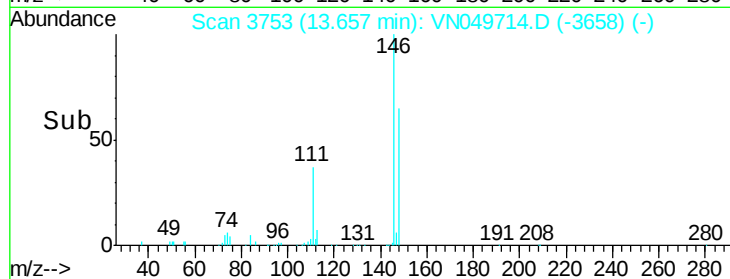
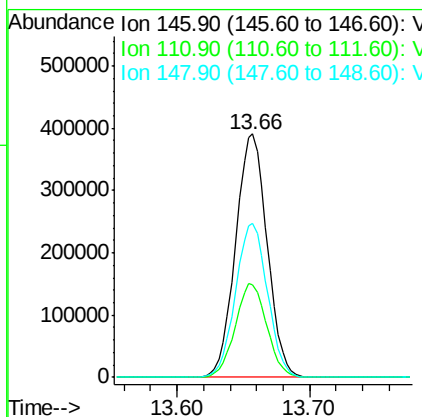
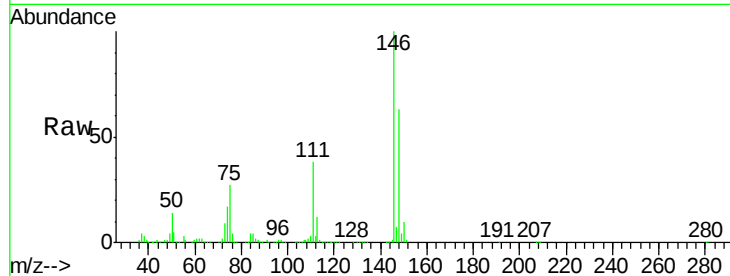
#91
 1,2-Dichlorobenzene
 Concen: 20.455 ug/l
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Instrument :
 MSVOA_N
 ClientSampled :
 VN0705WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.7	59.1
148	64.1	32.0	96.2

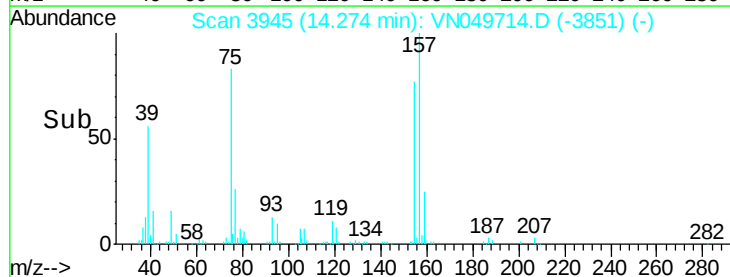
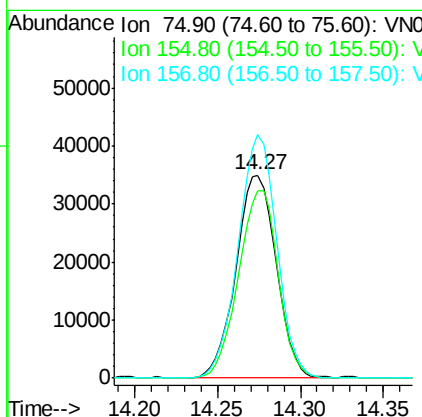
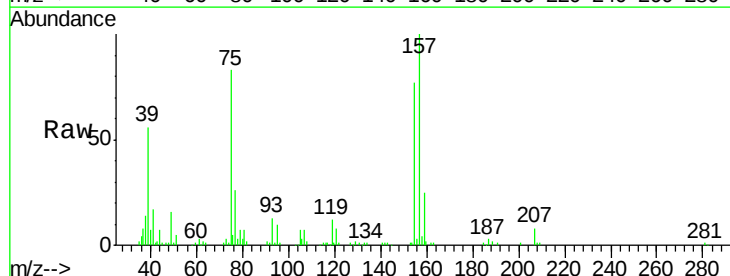
Manual Integrations
 APPROVED

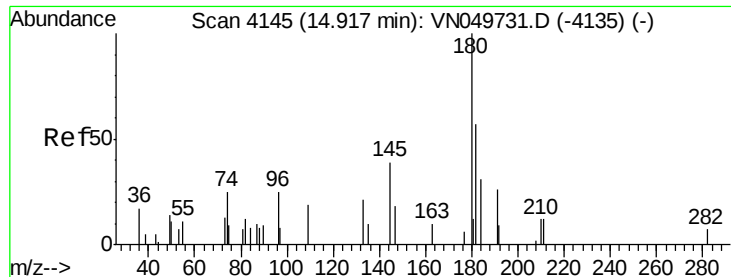
sam
 7/6/2018 4:26:02 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.025 ug/l
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049714.D
 Acq: 5 Jul 2018 15:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.5	45.7	137.1
157	114.4	56.9	170.7





#93

1,2,4-Trichlorobenzene

Concen: 17.964 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

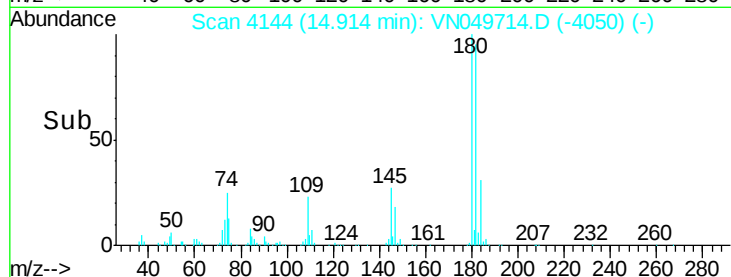
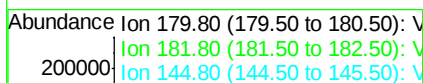
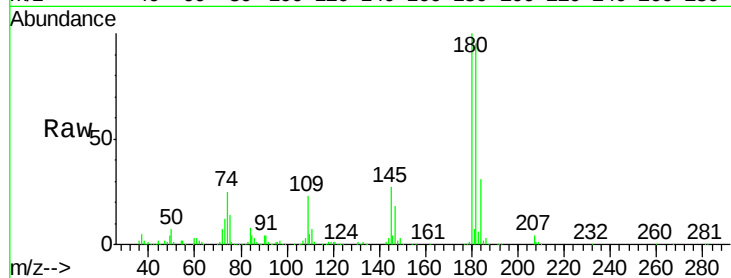
ClientSampled :

VN0705WBSD01

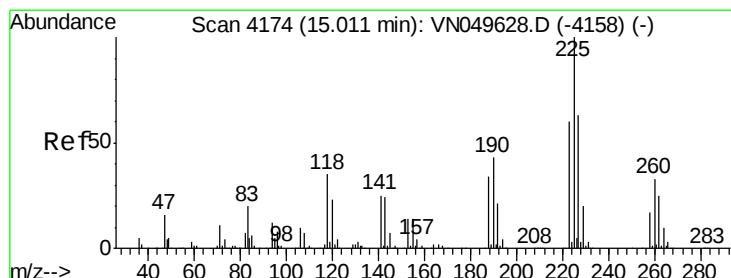
Tot Ion:	180	Resp:	261382
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.3	141.9
145	28.6	14.4	43.0

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



Time-->



#94

Hexachlorobutadiene

Concen: 20.099 ug/l

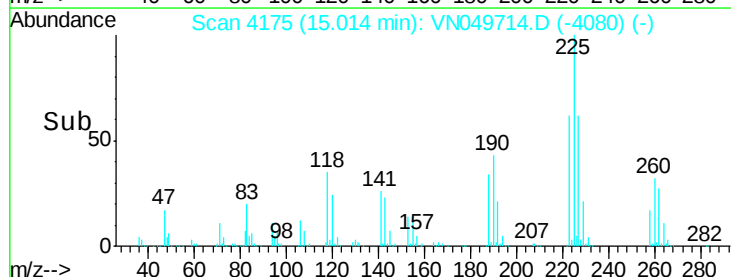
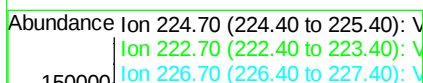
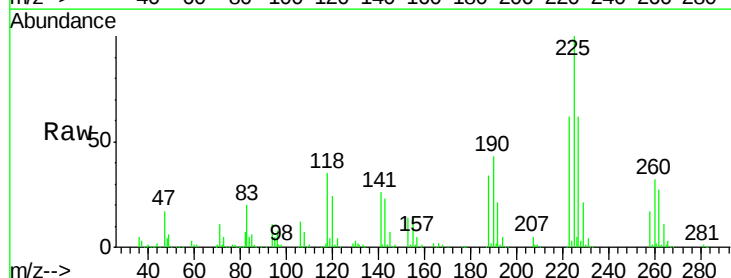
RT: 15.01 min Scan# 4175

Delta R.T. 0.00 min

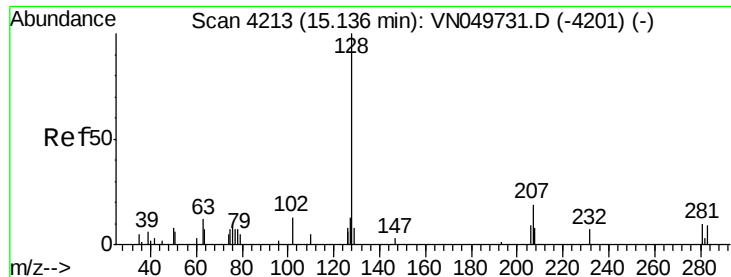
Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	225	Resp:	197566
Ion Ratio	Lower	Upper	
225	100		
223	61.7	30.9	92.7
227	63.3	31.8	95.4



Time-->



#95

Naphthalene

Concen: 18.125 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Instrument :

MSVOA_N

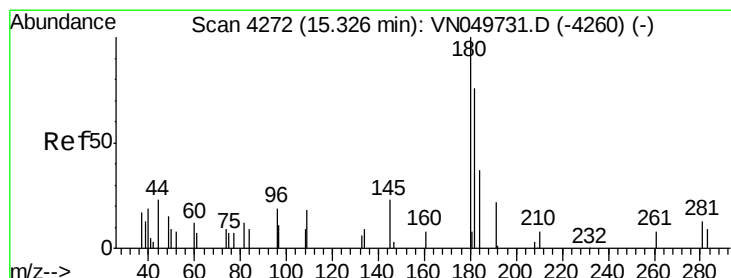
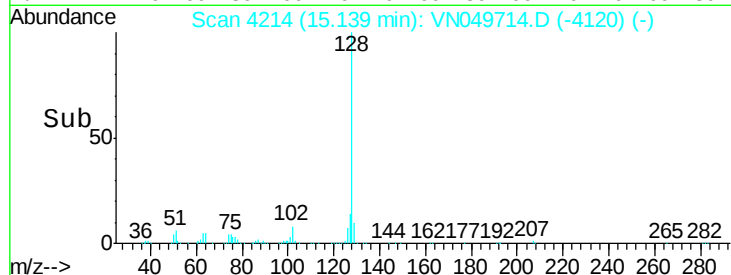
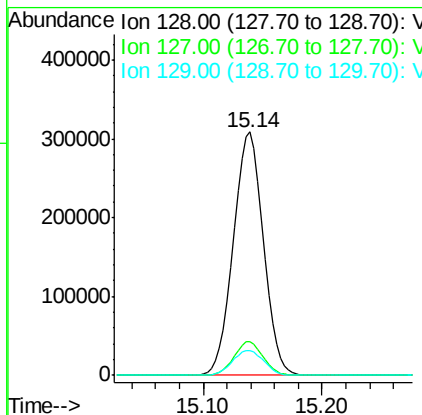
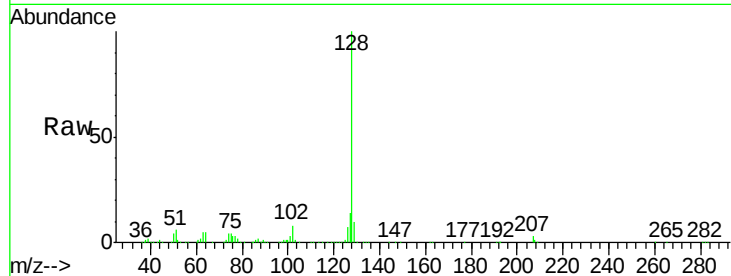
ClientSampleId :

VN0705WBSD01

Tot Ion:	128	Resp:	540059
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.4	15.6
129	10.8	8.6	13.0

Manual Integrations
APPROVED

sam
7/6/2018 4:26:02 PM



#96

1,2,3-Trichlorobenzene

Concen: 18.962 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN049714.D

Acq: 5 Jul 2018 15:41

Tgt Ion:	180	Resp:	271875
Ion Ratio	Lower	Upper	
180	100		
182	96.9	47.4	142.2
145	31.1	15.2	45.6

