

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052877.D
 Acq On : 14 Dec 2018 9:45
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:05:26 PM

Quant Time: Dec 14 11:09:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	159329	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	919710	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	813895	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	305872	28.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.90%
60) 4-Bromofluorobenzene	12.40	95	379807	30.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.73%
63) Toluene-d8	10.09	98	1091924	28.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	168578	18.577	ug/l 99
3) Chloromethane	2.06	50	218757	18.177	ug/l 97
4) Vinyl Chloride	2.19	62	231799	19.084	ug/l 99
5) Bromomethane	2.58	94	145241	20.971	ug/l 97
6) Chloroethane	2.71	64	140436	19.442	ug/l 99
7) Trichlorofluoromethane	3.03	101	300897	20.073	ug/l 97
8) Diethyl Ether	3.41	74	116004	20.958	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	195307	20.553	ug/l 96
10) 1,1-Dichloroethene	3.74	96	182741	20.453	ug/l 96
11) Methyl Iodide	3.96	142	244643	19.721	ug/l 99
12) Methyl Acetate	4.33	43	156585	20.626	ug/l 98
13) Acrolein	3.61	56	76199	85.448	ug/l 97
14) Acrylonitrile	4.99	53	334578	103.436	ug/l 98
15) Acetone	3.82	58	86964	103.813	ug/l 98
16) Carbon Disulfide	4.06	76	502670	17.770	ug/l 100
17) Allyl chloride	4.33	41	275143	17.658	ug/l 98
18) Methylene Chloride	4.55	84	210494	20.347	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	195838	20.367	ug/l 94
20) Diisopropyl ether	5.95	45	653688	19.963	ug/l 99
21) 1,1-Dichloroethane	5.85	63	375519	20.121	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	230662	20.931	ug/l 98
23) tert-Butyl Alcohol	4.78	59	55282	114.887	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	501996	21.417	ug/l 97
25) Chloroform	7.37	83	369037	20.496	ug/l 98
26) Cyclohexane	7.65	56	333824	18.965	ug/l # 95
29) 1,1-Dichloropropene	7.80	75	286890	20.427	ug/l 99
30) 2-Butanone	6.83	43	400985	106.696	ug/l 98
31) 2,2-Dichloropropane	6.82	77	276711	21.401	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	308256	21.093	ug/l 98
33) Carbon Tetrachloride	7.78	117	267127	20.890	ug/l 98
34) Benzene	8.04	78	865005	20.485	ug/l 97
35) Methacrylonitrile	7.17	41	97444	20.898	ug/l 96
36) 1,2-Dichloroethane	8.12	62	264557	20.675	ug/l 100
37) Trichloroethene	8.84	130	235046	21.951	ug/l 95
38) Methylcyclohexane	9.08	83	342305	19.688	ug/l 96
39) 1,2-Dichloropropane	9.12	63	228658	20.201	ug/l 97
40) Dibromomethane	9.21	93	130814	21.386	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	277992	20.570	ug/l	98
42) Vinyl Acetate	5.90	43	1947945	95.797	ug/l	98
43) Ethyl Acetate	6.83	43	400985	50.177	ug/l	100
44) Isopropyl Acetate	8.16	43	308495	22.011	ug/l	99
45) 1,4-Dioxane	9.20	88	37339	486.990	ug/l	90
46) Methyl methacrylate	9.20	41	151198	20.777	ug/l	97
47) n-amyl Acetate	12.07	43	258719	22.264	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	273571	20.878	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	326707	20.464	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	187277	21.599	ug/l	99
51) Ethyl methacrylate	10.43	69	235006	21.581	ug/l	94
52) 1,3-Dichloropropane	10.71	76	323652	20.971	ug/l	99
53) Dibromochloromethane	10.90	129	207145	21.700	ug/l	99
54) 1,2-Dibromoethane	11.01	107	183082	21.609	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	681274	106.878	ug/l	98
56) Bromoform	12.13	173	137024	21.961	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	844914	107.080	ug/l	98
59) 2-Hexanone	10.75	43	622399	115.471	ug/l	97
61) Tetrachloroethene	10.63	164	249983	24.938	ug/l	94
62) Toluene	10.16	91	940894	20.970	ug/l	100
64) Chlorobenzene	11.44	112	584031	21.326	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	206230	21.695	ug/l	99
66) Ethyl Benzene	11.51	91	1007919	20.843	ug/l	99
67) m/p-Xylenes	11.62	106	767605	42.608	ug/l	98
68) o-Xylene	11.95	106	377126	21.567	ug/l	98
69) Styrene	11.96	104	611127	21.653	ug/l	99
70) Isopropylbenzene	12.25	105	1007292	21.651	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	214200	21.165	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	203166m	23.385	ug/l	
73) Bromobenzene	12.53	156	254854	22.649	ug/l	93
74) n-propylbenzene	12.59	91	1146855	21.157	ug/l	98
75) 2-Chlorotoluene	12.68	91	677448	21.530	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	825669	21.972	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	58802	21.426	ug/l	99
78) 4-Chlorotoluene	12.77	91	681718	21.696	ug/l	99
79) tert-butylbenzene	12.99	119	720899	22.028	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	825942	21.966	ug/l	99
81) sec-Butylbenzene	13.17	105	986478	21.641	ug/l	100
82) p-Isopropyltoluene	13.29	119	855041	22.029	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	447889	22.632	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	441939	23.114	ug/l	99
85) n-Butylbenzene	13.62	91	701625	21.044	ug/l	99
86) Hexachloroethane	13.88	117	135503	20.604	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	433694	23.029	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32455	22.894	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	237901	25.640	ug/l	99
90) Hexachlorobutadiene	15.01	225	144472	23.736	ug/l	100
91) Naphthalene	15.13	128	471512	25.165	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	213938	25.020	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

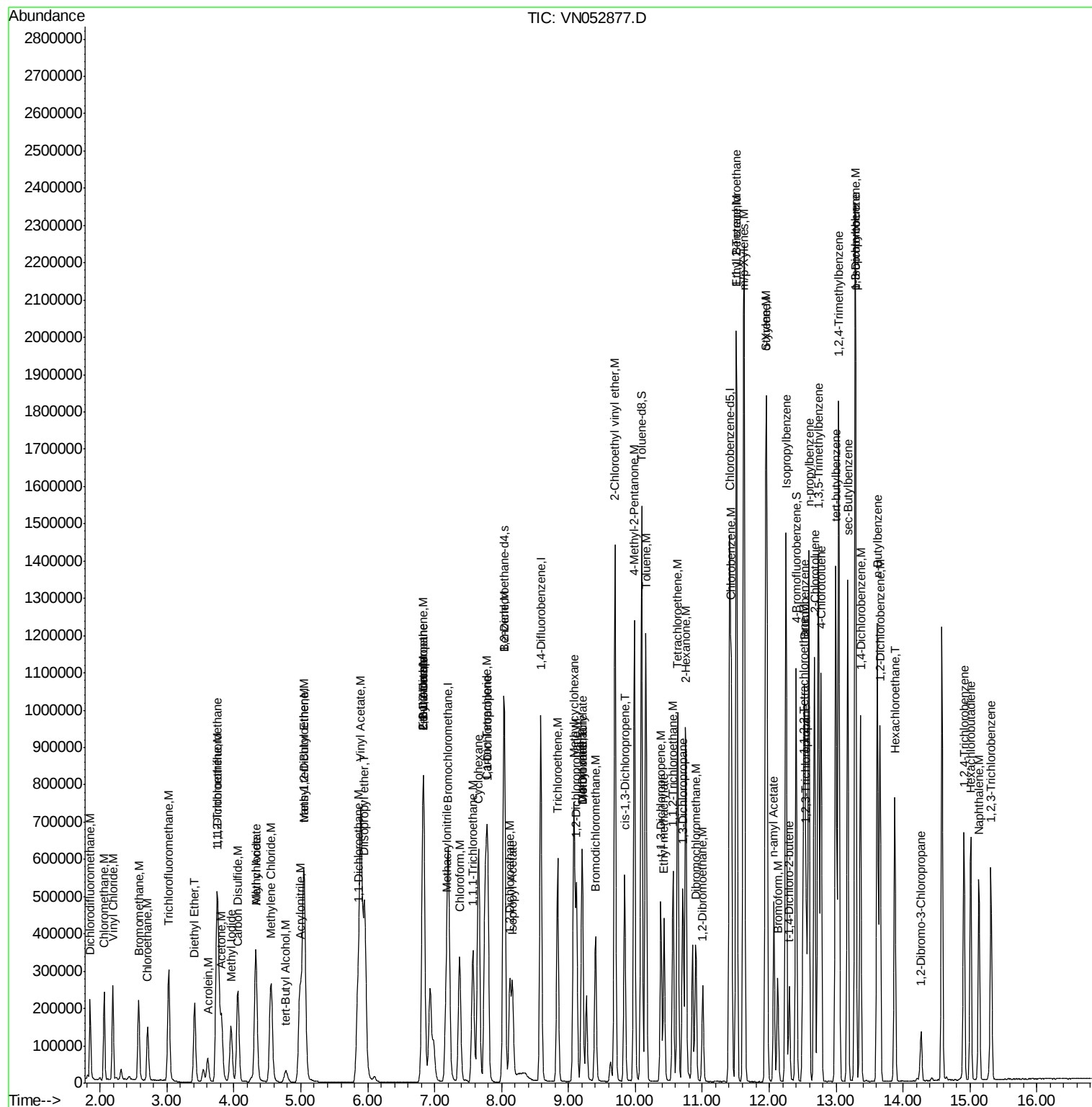
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Data File : VN052877.D
Acq On : 14 Dec 2018 9:45
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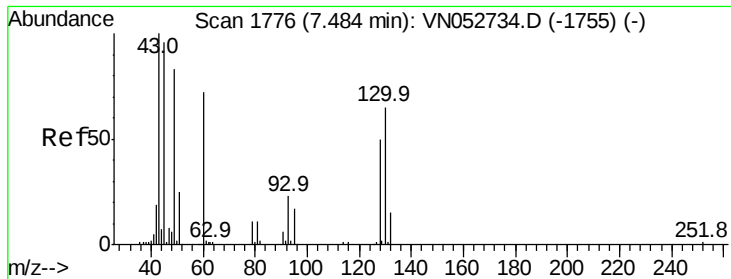
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

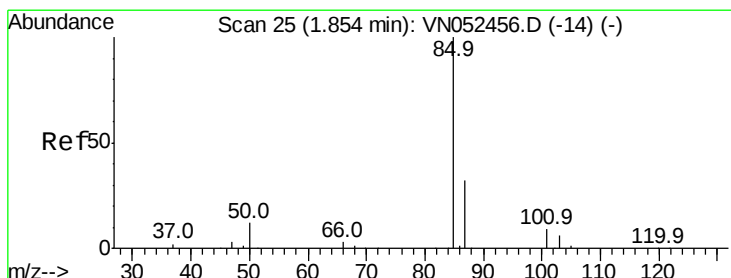
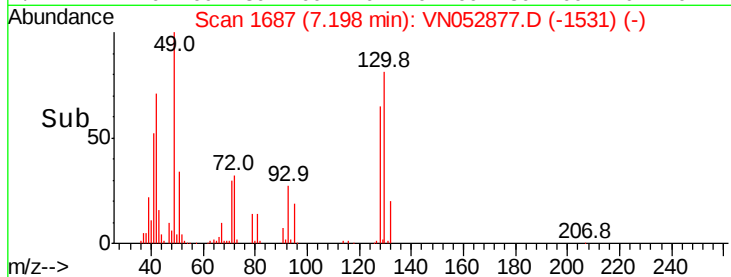
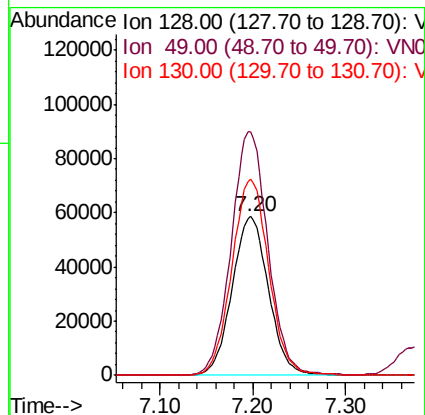
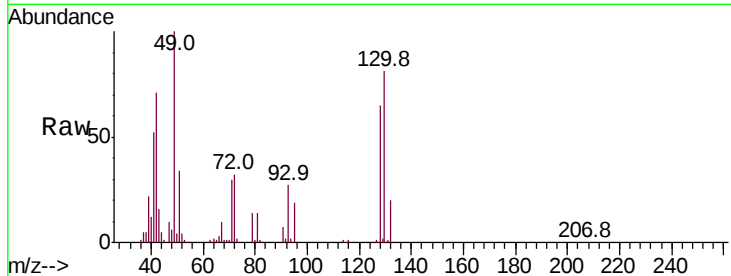
ClientSampleId :

VSTDCCC020

Tot Ion:	128	Resp:	159329
Ion Ratio	Lower	Upper	
128	100		
49	155.0	0.0	431.8
130	126.1	0.0	317.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 18.577 ug/l

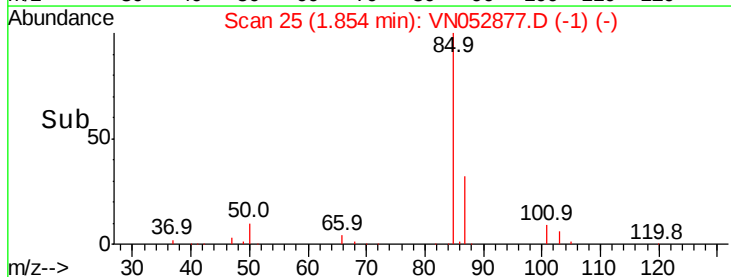
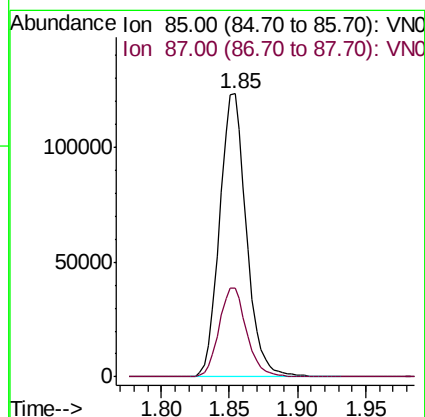
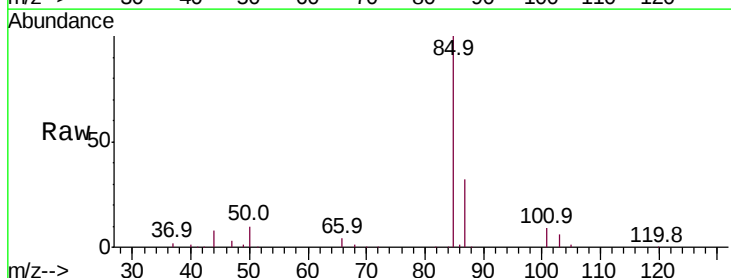
RT: 1.85 min Scan# 25

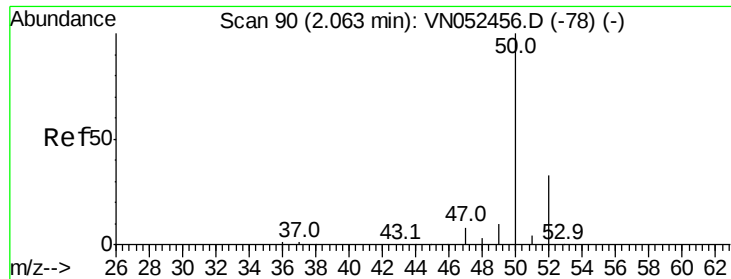
Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion:	85	Resp:	168578
Ion Ratio	Lower	Upper	
85	100		
87	31.6	16.1	48.3





#3

Chloromethane

Concen: 18.177 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 50 Resp: 218757

Ion Ratio Lower Upper

50 100

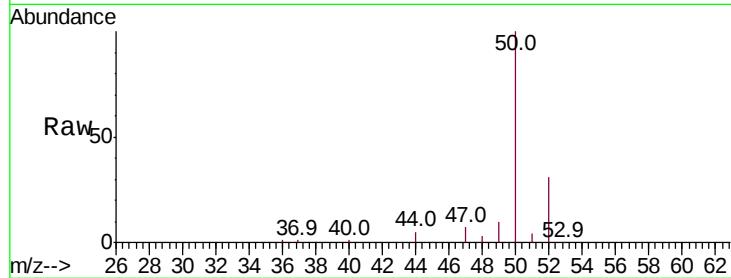
52 31.5 26.5 39.7

Manual Integrations

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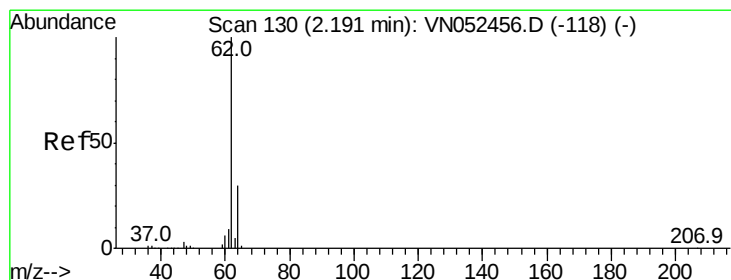
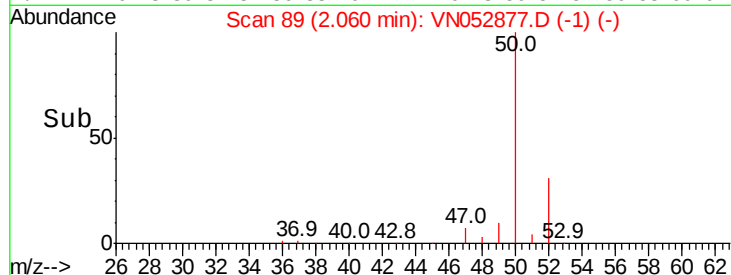
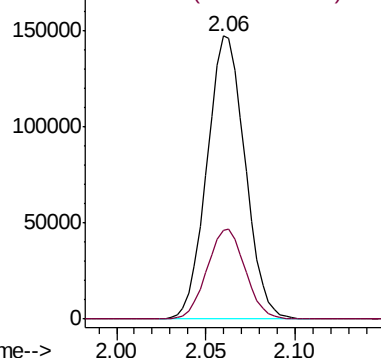
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Abundance Ion 50.00 (49.70 to 50.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#4

Vinyl Chloride

Concen: 19.084 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052877.D

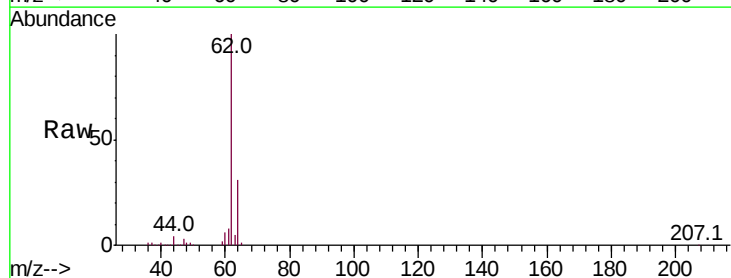
Acq: 14 Dec 2018 9:45

Tgt Ion: 62 Resp: 231799

Ion Ratio Lower Upper

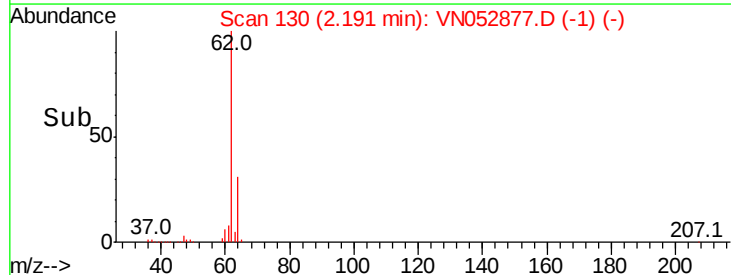
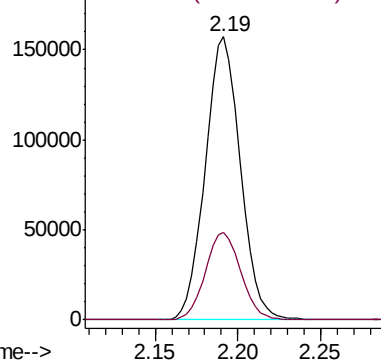
62 100

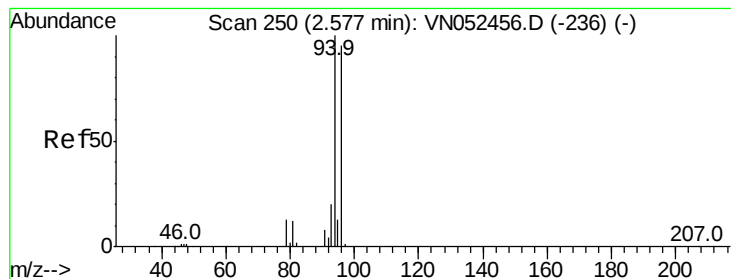
64 31.0 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VNO

Ion 64.00 (63.70 to 64.70): VNO





#5

Bromomethane

Concen: 20.971 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 94 Resp: 145241

Ion Ratio Lower Upper

94 100

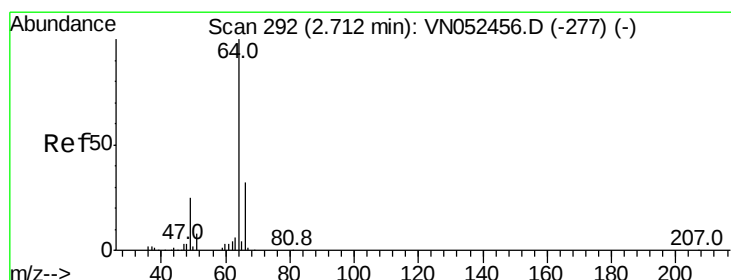
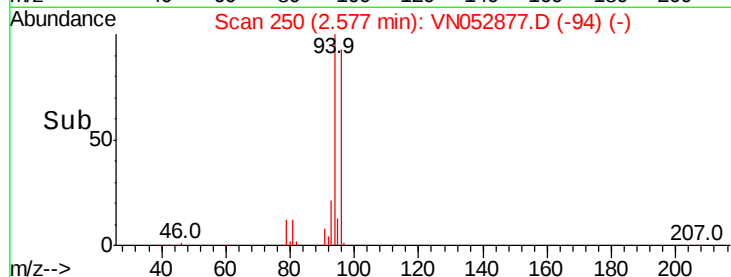
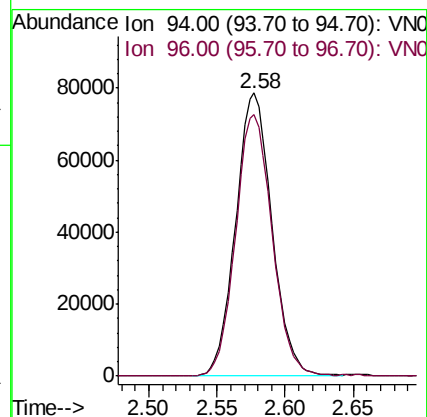
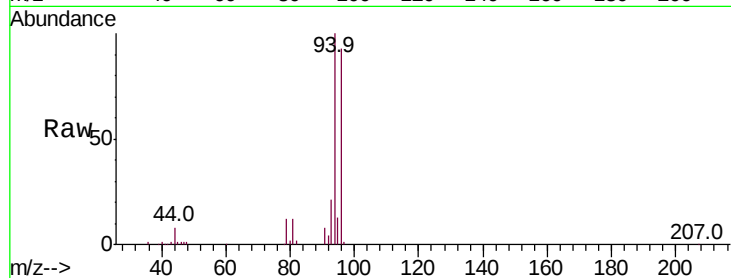
96 92.5 76.2 114.2

Manual Integrations

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#6

Chloroethane

Concen: 19.442 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052877.D

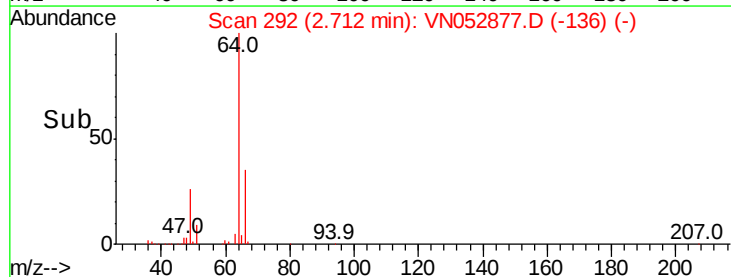
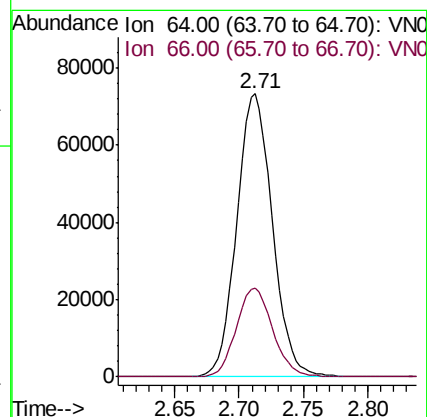
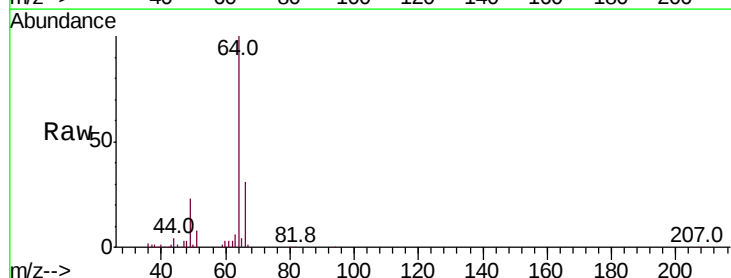
Acq: 14 Dec 2018 9:45

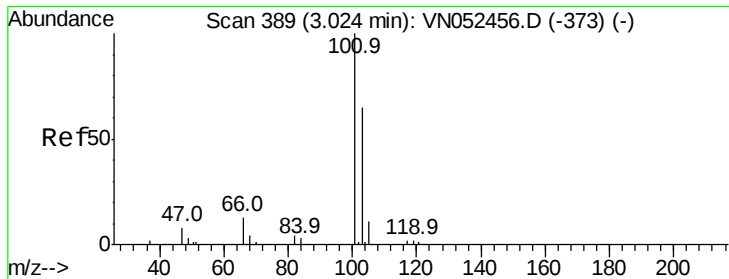
Tgt Ion: 64 Resp: 140436

Ion Ratio Lower Upper

64 100

66 31.4 25.6 38.4





#7

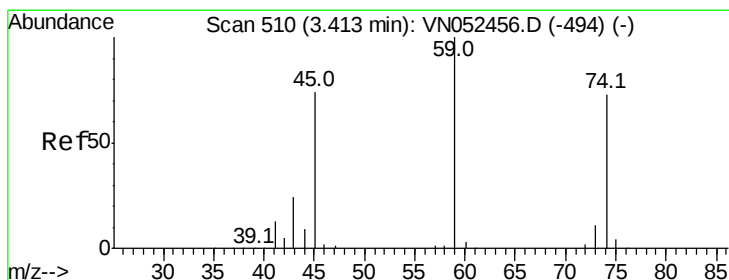
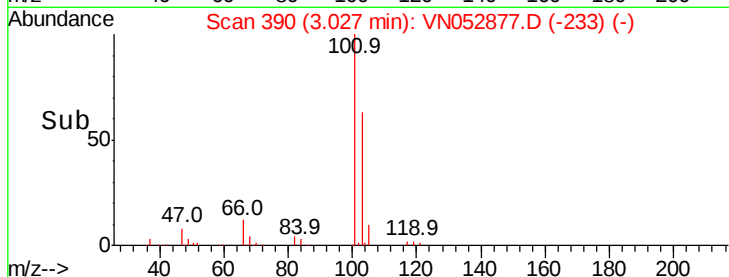
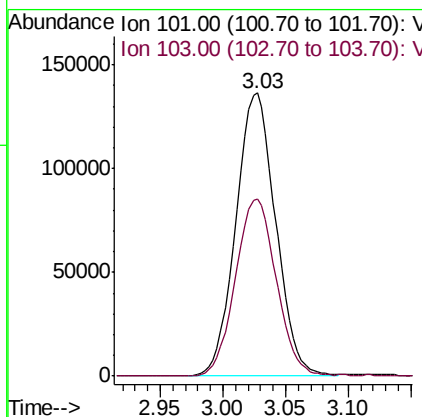
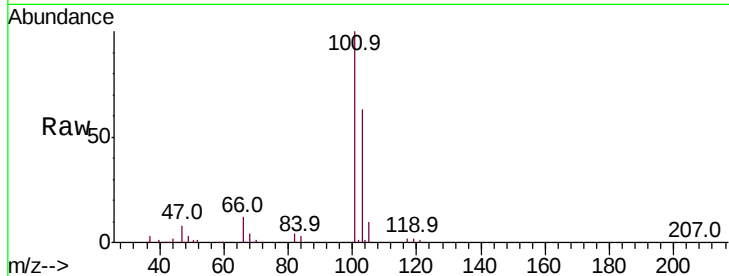
Trichlorofluoromethane
Concen: 20.073 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.7	52.1	78.1

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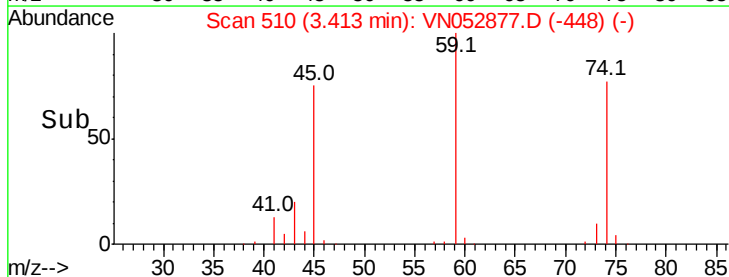
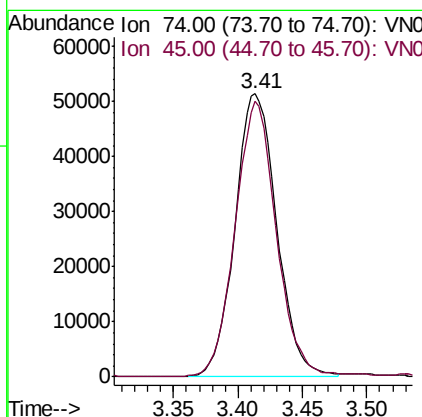
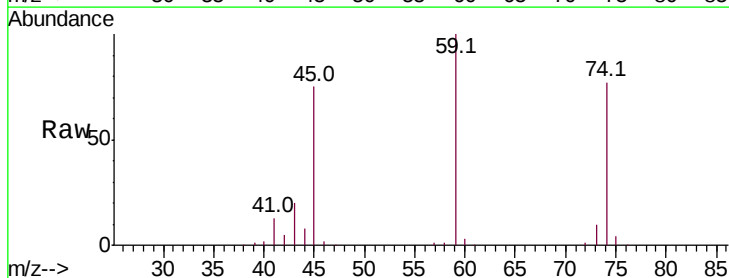
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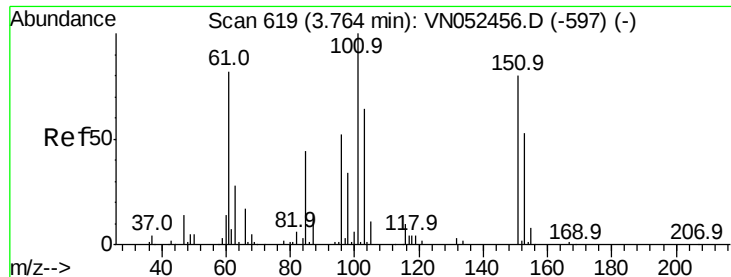


#8

Diethyl Ether
Concen: 20.958 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.1	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.553 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

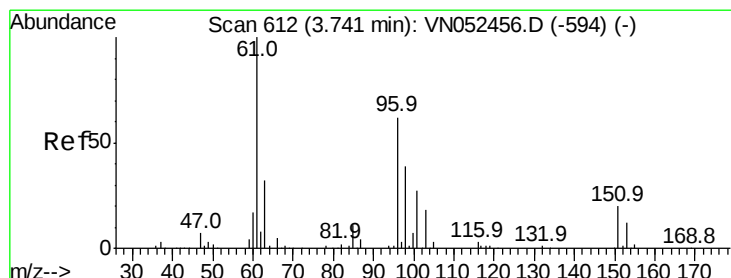
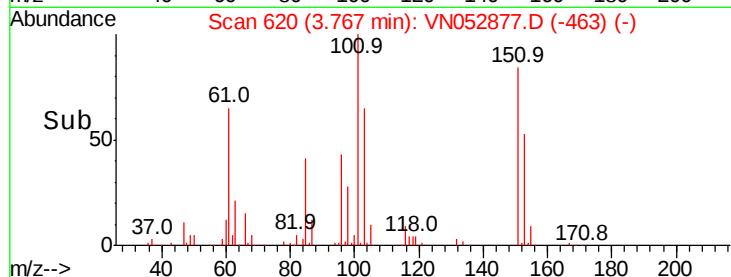
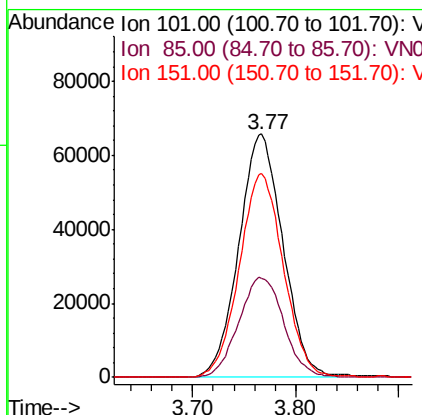
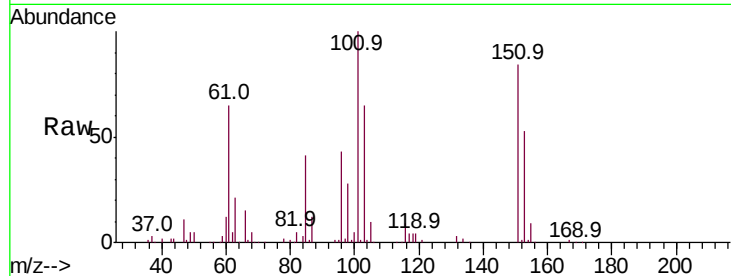
ClientSampleId :

VSTDCCC020

Tot Ion:	101	Resp:	195307
Ion Ratio	Lower	Upper	
101	100		
85	41.8	0.0	82.6
151	83.6	0.0	158.4

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#10

1,1-Dichloroethene

Concen: 20.453 ug/l

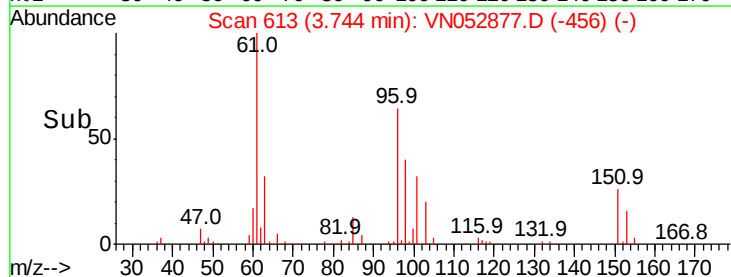
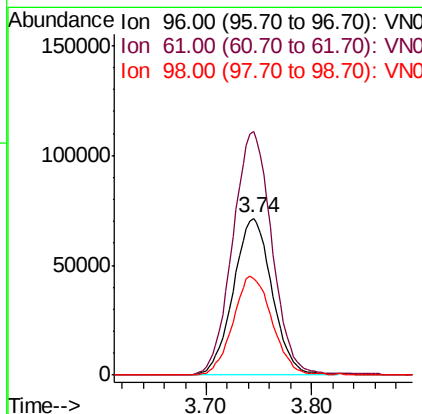
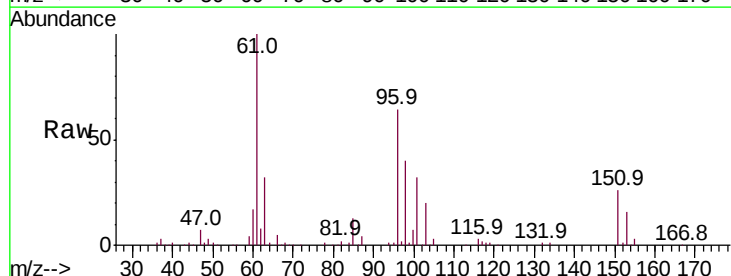
RT: 3.74 min Scan# 613

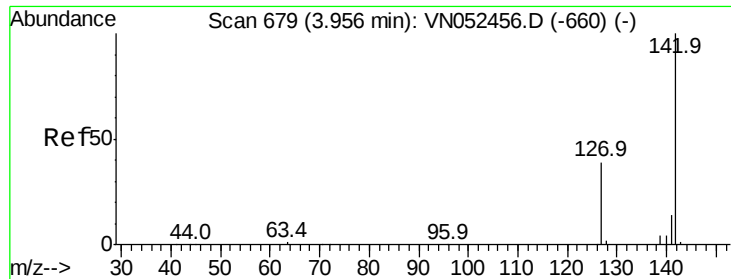
Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion:	96	Resp:	182741
Ion Ratio	Lower	Upper	
96	100		
61	155.1	129.4	194.2
98	61.6	50.4	75.6





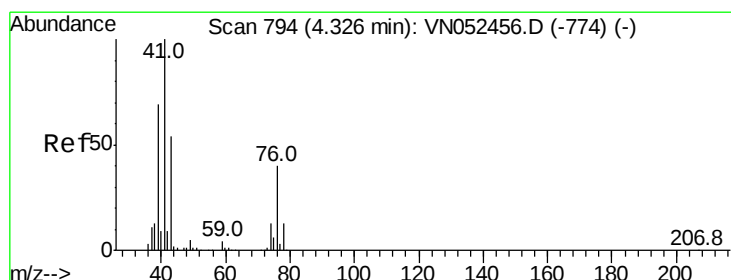
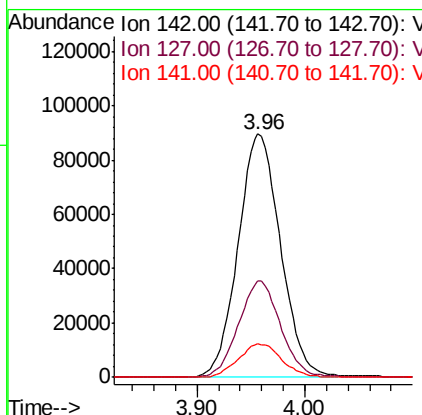
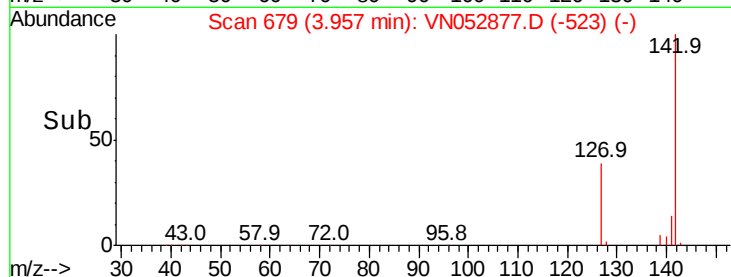
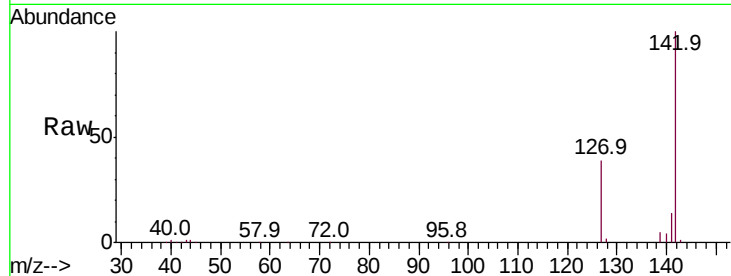
#11
Methvl Iodide
Concen: 19.721 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.3	19.4	58.1
141	13.7	7.2	21.6

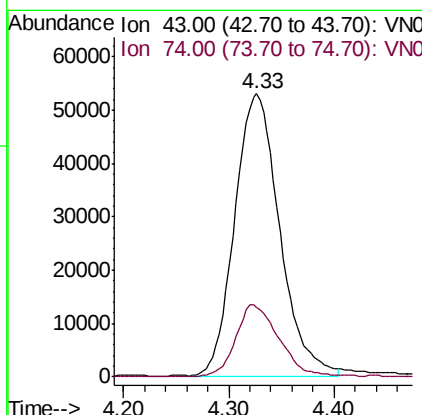
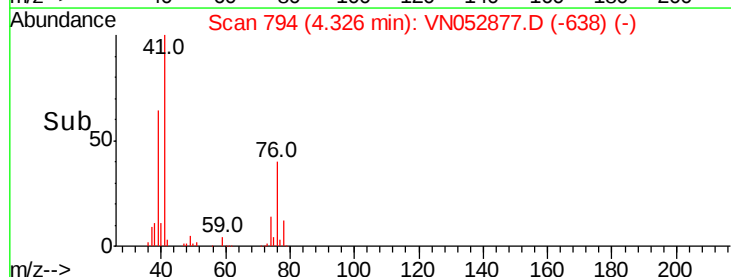
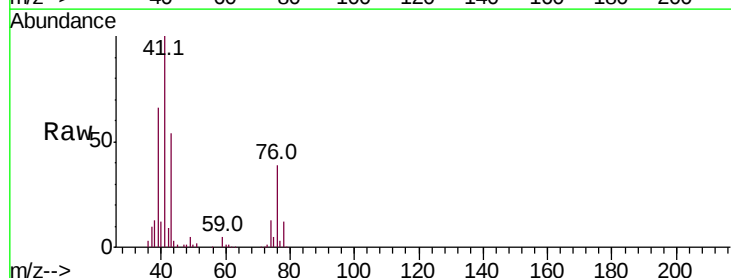
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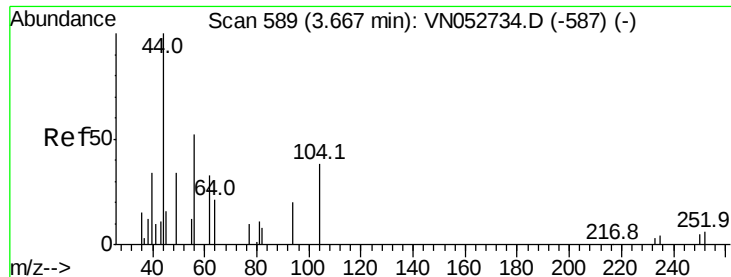
MMDadoda
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#12
Methyl Acetate
Concen: 20.626 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.7	18.9	28.3





#13

Acrolein

Concen: 85.448 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tot Ion: 56 Resp: 76199

Ion Ratio Lower Upper

56 100

55 68.3 56.7 85.1

Instrument :

MSVOA_N

ClientSampleId :

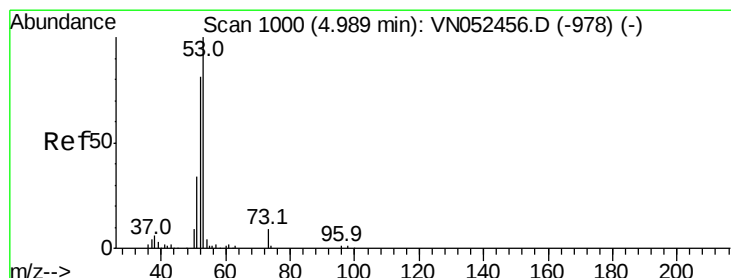
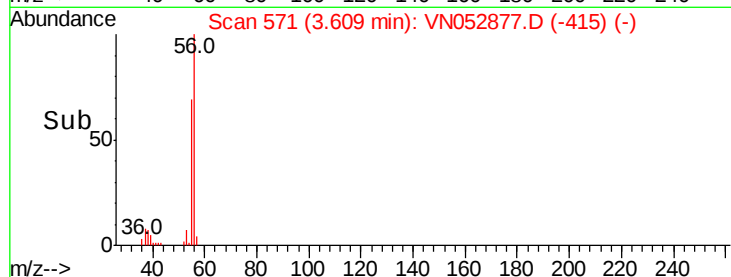
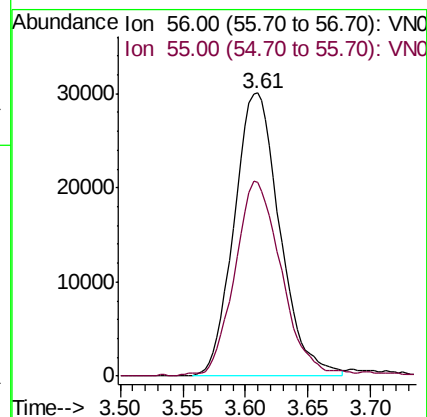
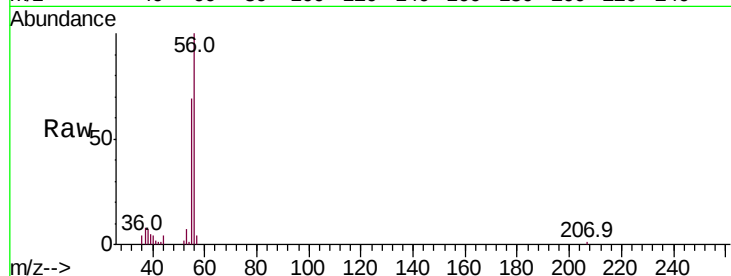
VSTDCCC020

Manual Integrations

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#14

Acrylonitrile

Concen: 103.436 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

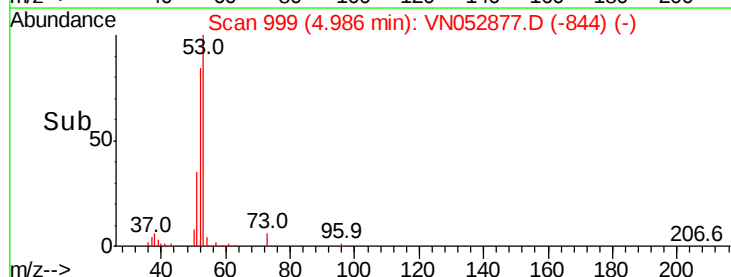
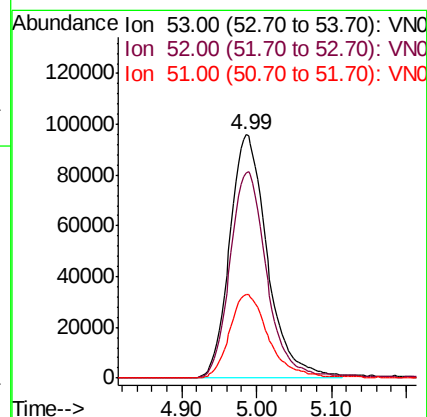
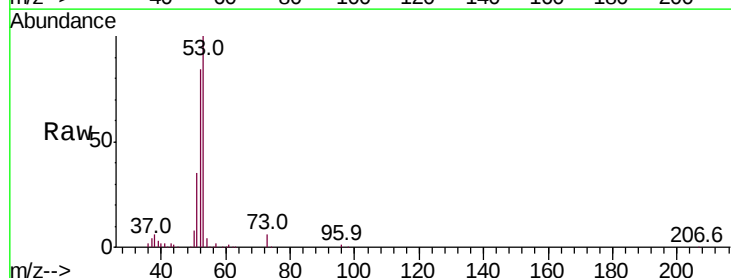
Tgt Ion: 53 Resp: 334578

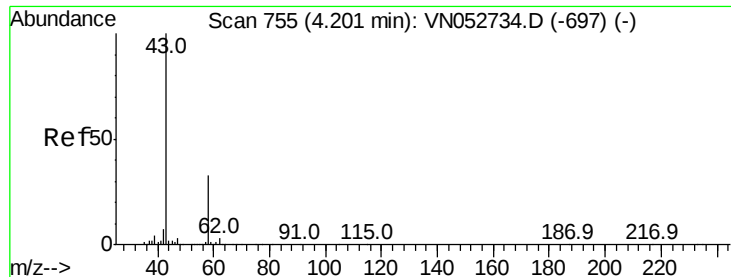
Ion Ratio Lower Upper

53 100

52 82.0 39.9 119.7

51 35.7 17.6 52.9





#15

Acetone

Concen: 103.813 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 58 Resp: 86964

Ion Ratio Lower Upper

58 100

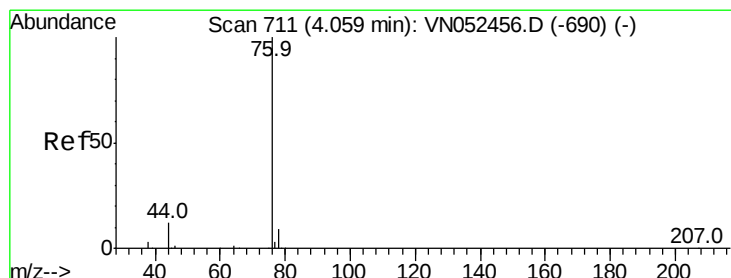
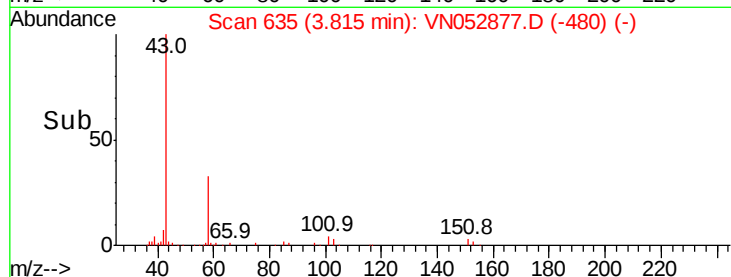
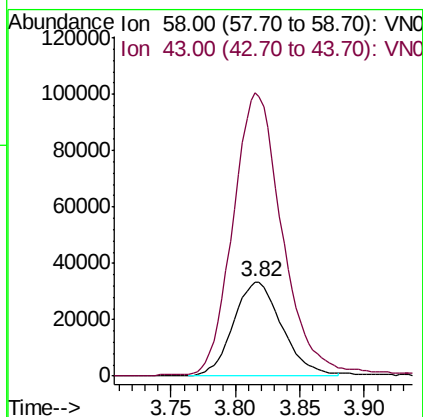
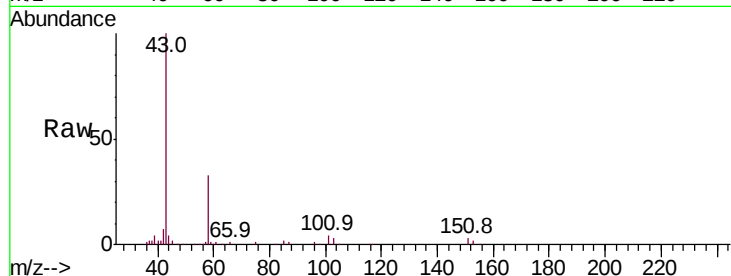
43 300.3 243.6 365.4

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#16

Carbon Disulfide

Concen: 17.770 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052877.D

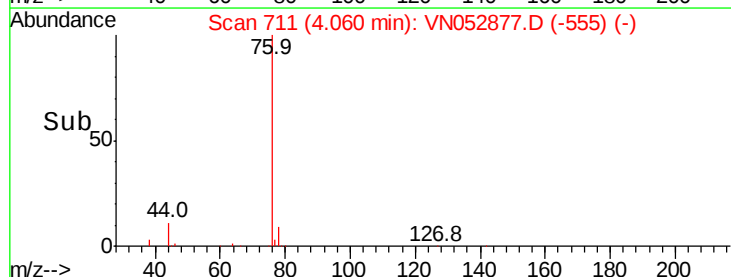
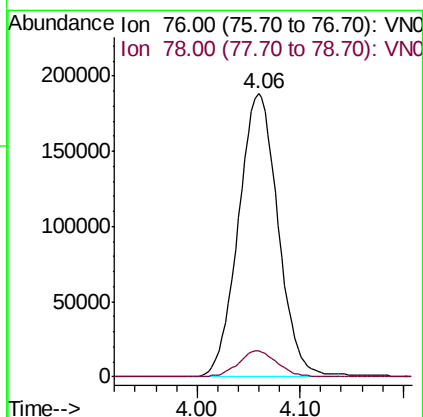
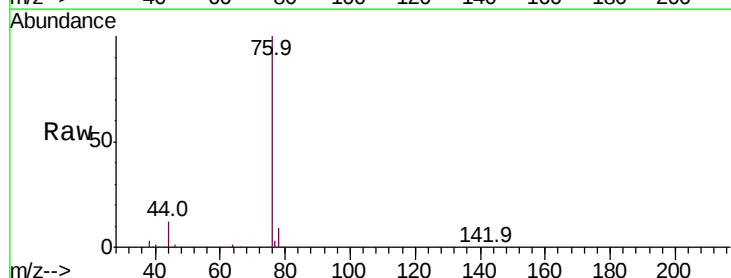
Acq: 14 Dec 2018 9:45

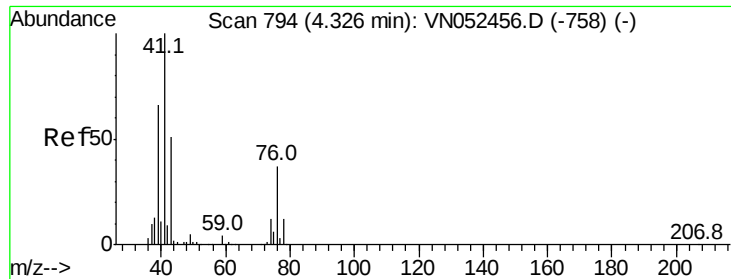
Tgt Ion: 76 Resp: 502670

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





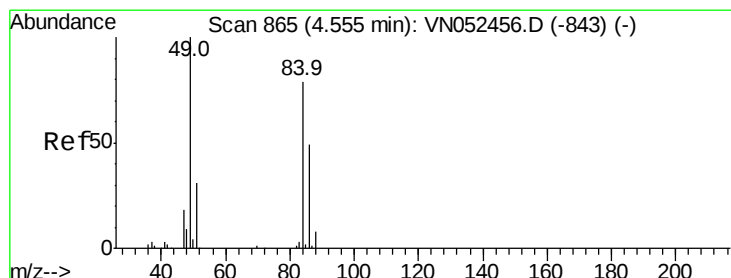
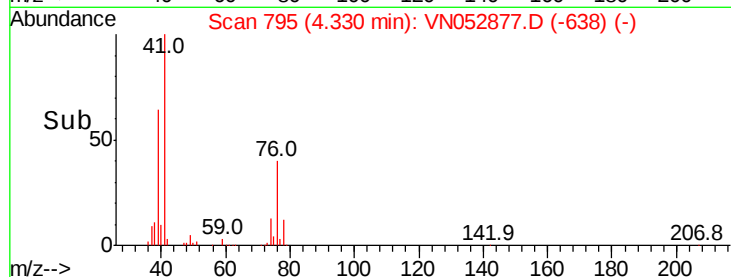
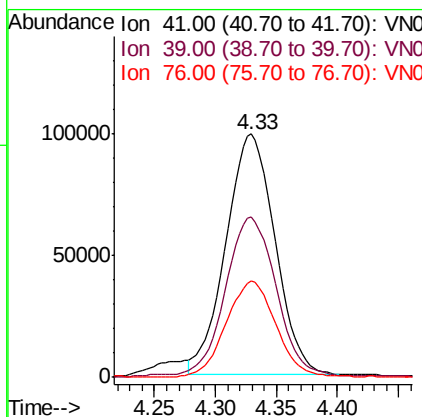
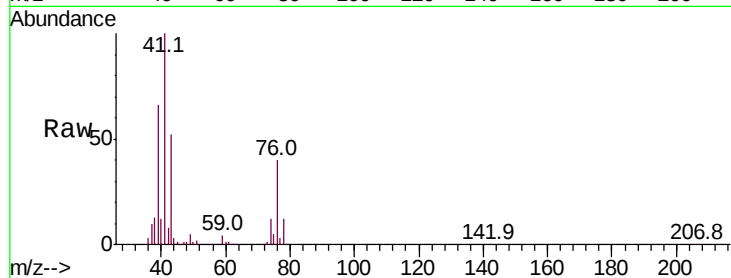
#17
Allvl chloride
Concen: 17.658 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
41	100	275143		
39	65.7		32.8	98.3
76	39.6		18.6	55.8

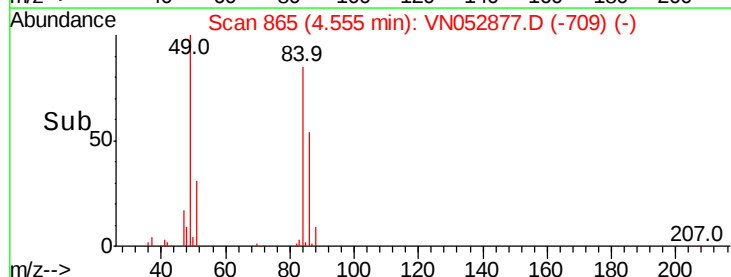
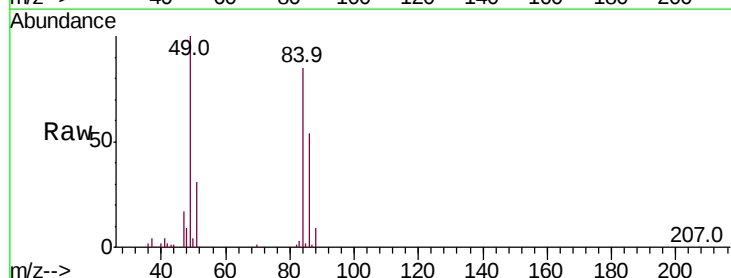
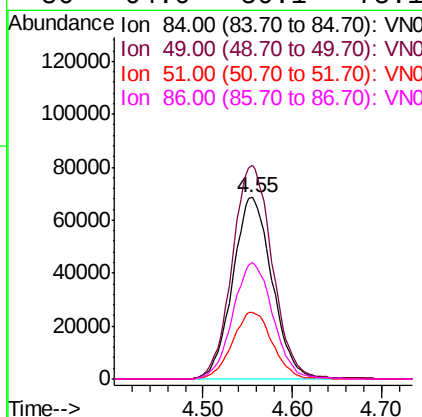
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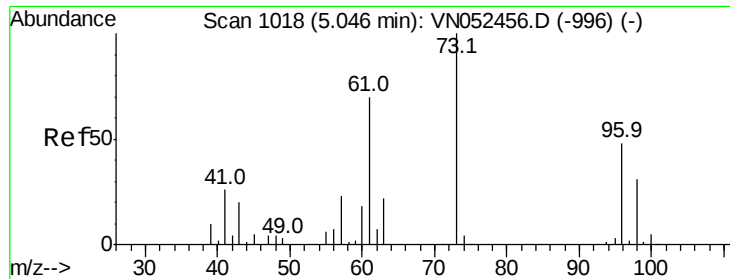
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#18
Methylene Chloride
Concen: 20.347 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Resp	Lower	Upper
84	100	210494		
49	117.9		101.4	152.0
51	36.7		31.7	47.5
86	64.0		50.1	75.1





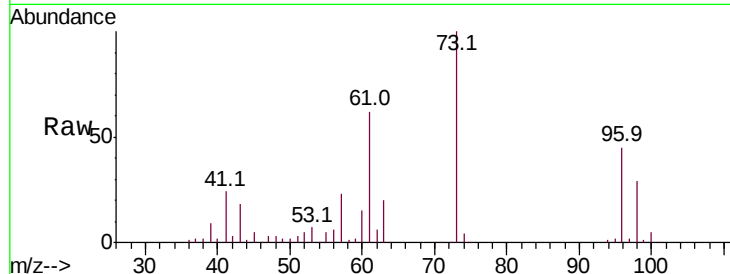
#19
trans-1,2-Dichloroethene
Concen: 20.367 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.3	118.2	177.4
98	64.1	51.4	77.2

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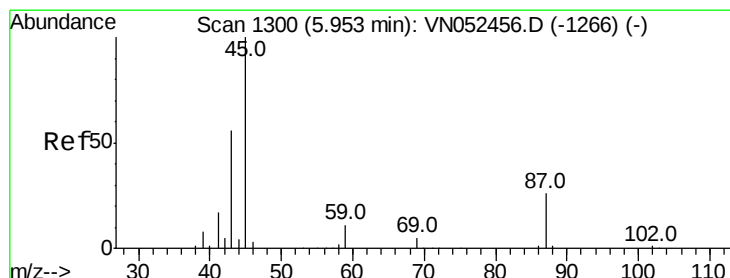
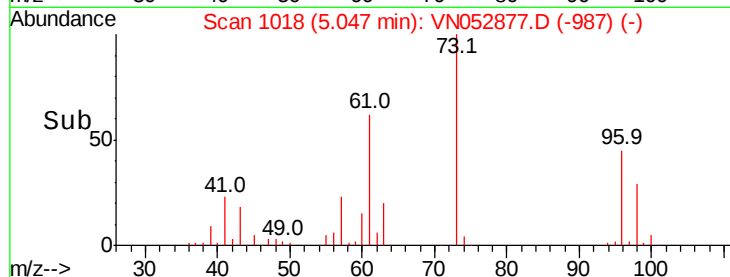
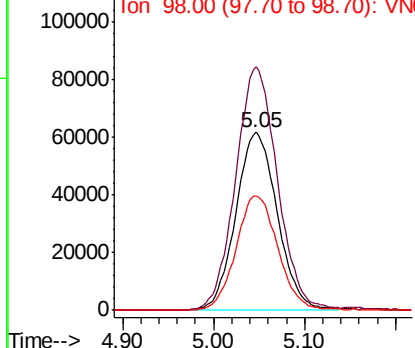


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 19.963 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.4	47.8	71.8
87	27.5	21.3	31.9
59	12.4	8.9	13.3

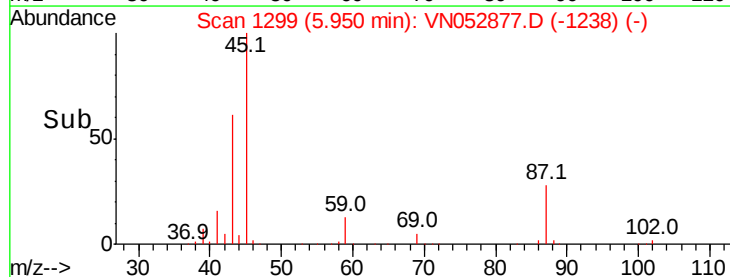
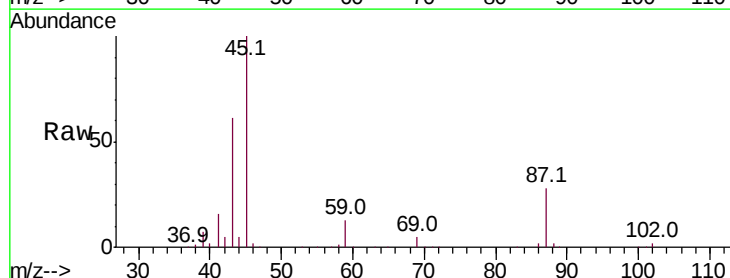
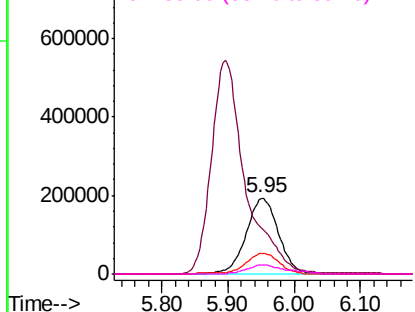
Abundance

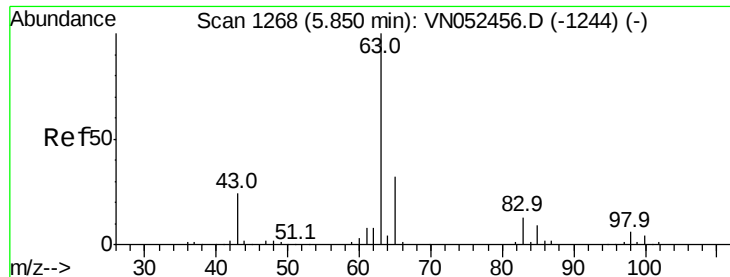
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#21

1,1-Dichloroethane

Concen: 20.121 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

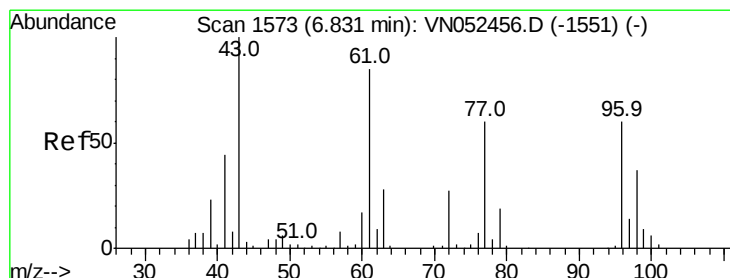
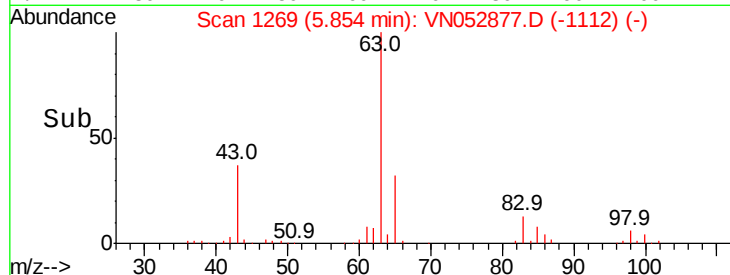
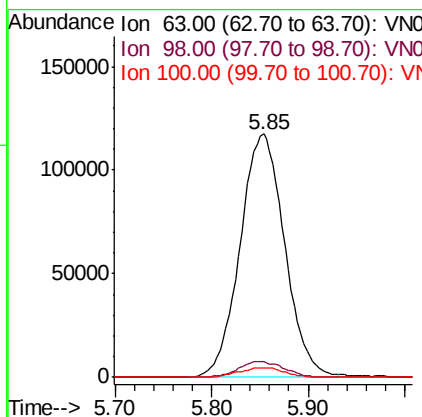
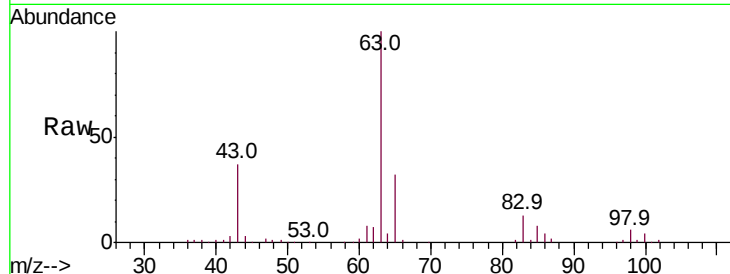
ClientSampleId :

VSTDCCC020

Tot Ion	63	Resp	375519
Ion Ratio	Lower	Upper	
63	100		
98	6.4	3.0	9.2
100	3.9	1.8	5.5

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#22

cis-1,2-Dichloroethene

Concen: 20.931 ug/l

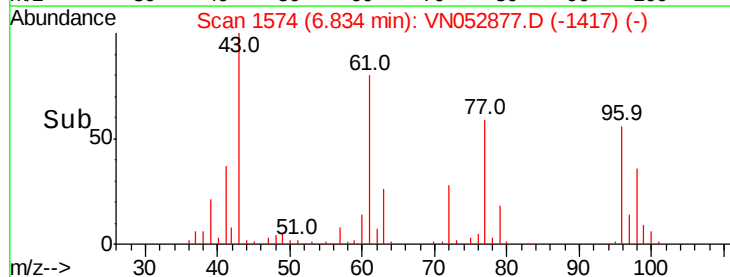
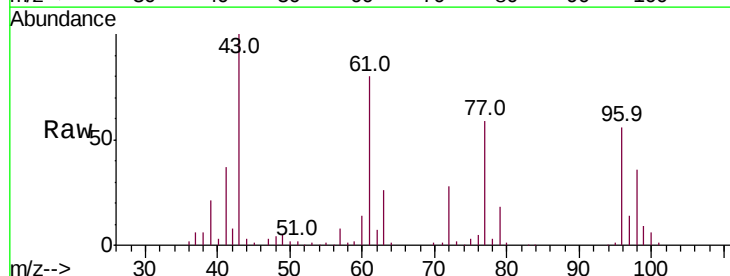
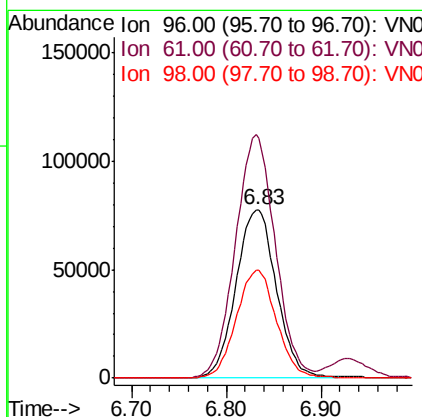
RT: 6.83 min Scan# 1574

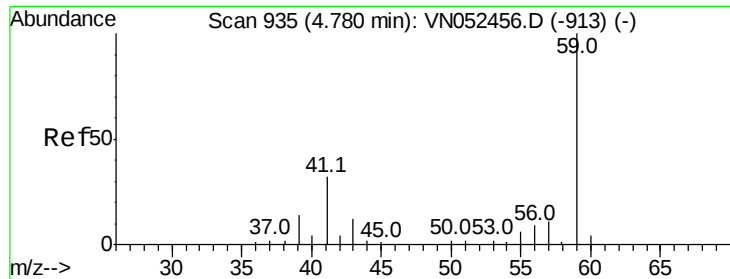
Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion	96	Resp	230662
Ion Ratio	Lower	Upper	
96	100		
61	142.7	116.7	175.1
98	63.5	50.8	76.2





#23

tert-Butyl Alcohol

Concen: 114.887 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

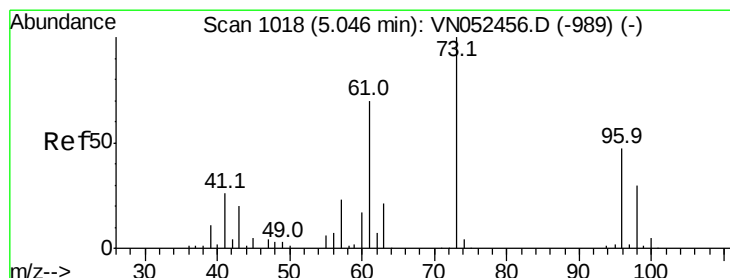
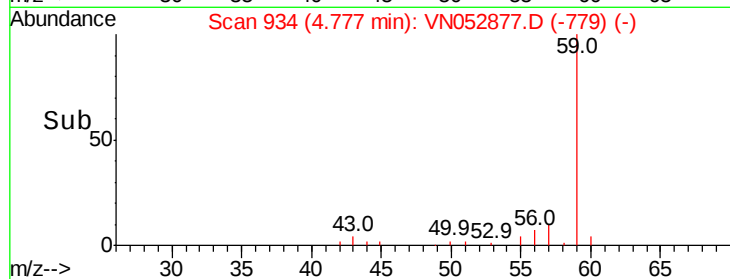
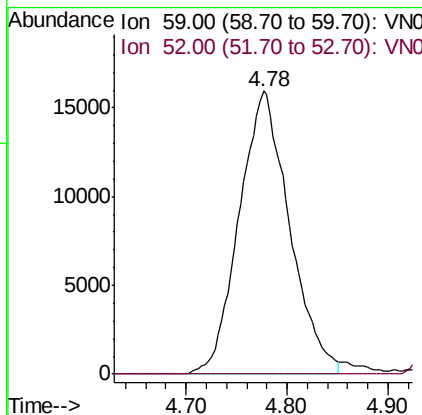
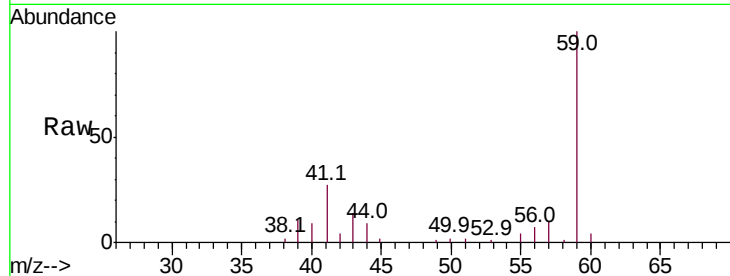
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 59 Resp: 55282

Ion	Ratio	Lower	Upper
59	100		
52	0.3	0.0	0.0#

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#24

Methyl tert-Butyl Ether

Concen: 21.417 ug/l

RT: 5.04 min Scan# 1017

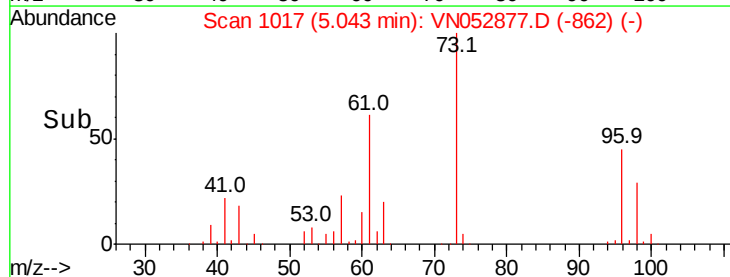
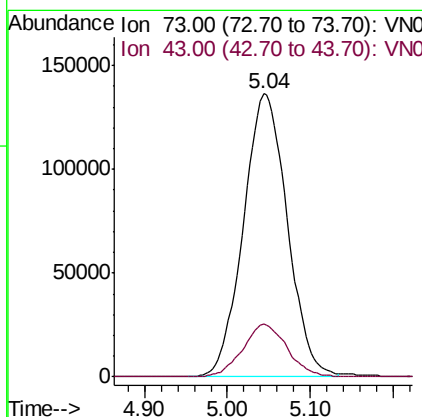
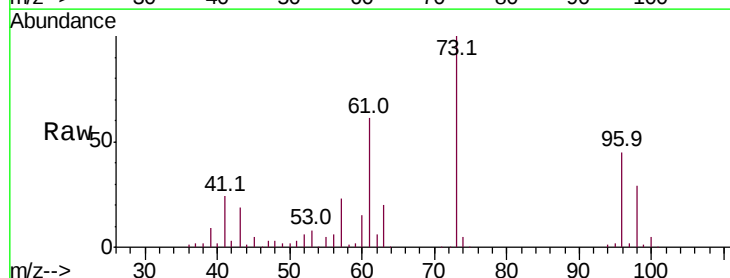
Delta R.T. -0.00 min

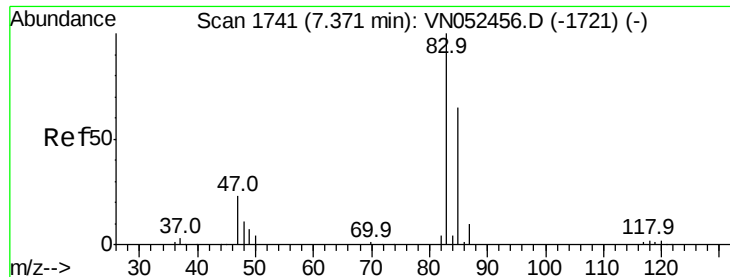
Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion: 73 Resp: 501996

Ion	Ratio	Lower	Upper
73	100		
43	18.6	15.8	23.8





#25

Chloroform

Concen: 20.496 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 83 Resp: 369037

Ion Ratio Lower Upper

83 100

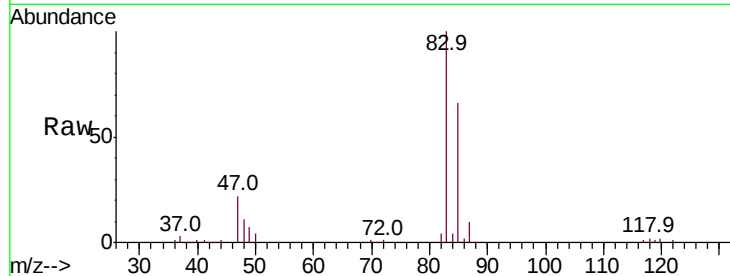
85 66.4 51.7 77.5

Manual Integrations

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Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

150000

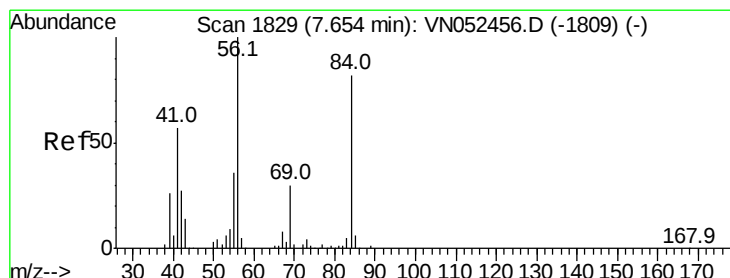
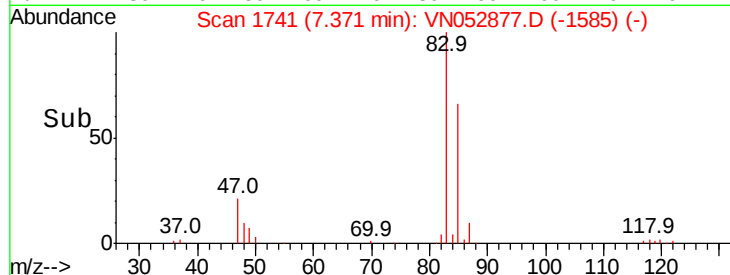
100000

50000

0

7.30 7.40 7.50

Time-->



#26

Cyclohexane

Concen: 18.965 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

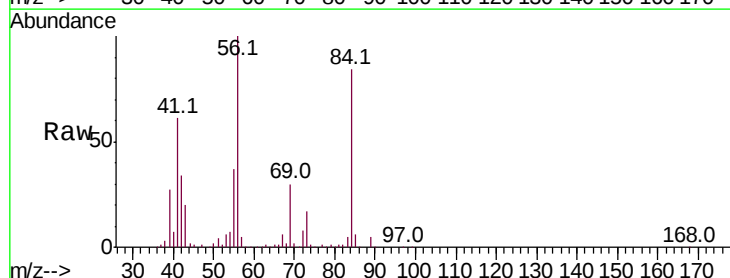
Tgt Ion: 56 Resp: 333824

Ion Ratio Lower Upper

56 100

89 4.7 0.5 0.7#

84 87.0 66.2 99.2



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

200000

150000

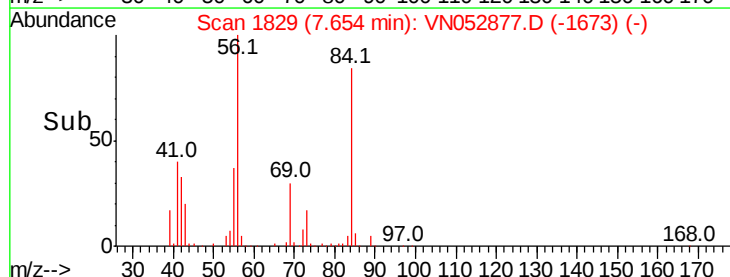
100000

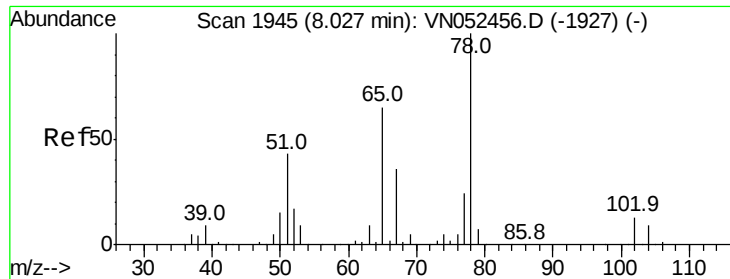
50000

0

7.55 7.60 7.65 7.70

Time-->





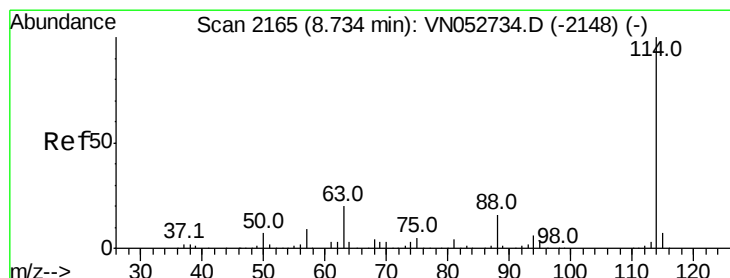
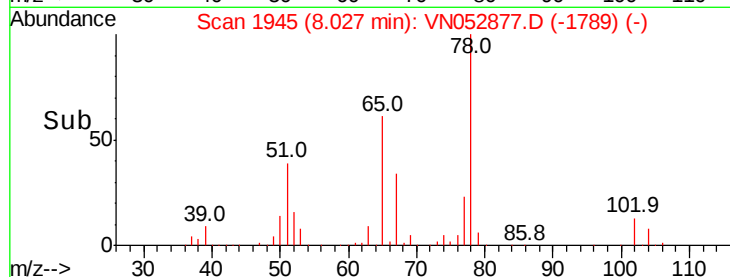
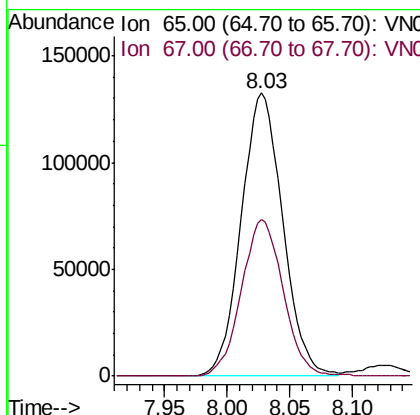
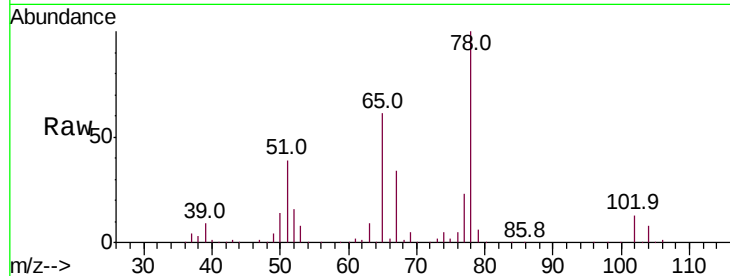
#27
 1,2-Dichloroethane-d4
 Concen: 18.965 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion: 65 Resp: 305872
 Ion Ratio Lower Upper
 65 100
 67 55.7 44.6 66.8

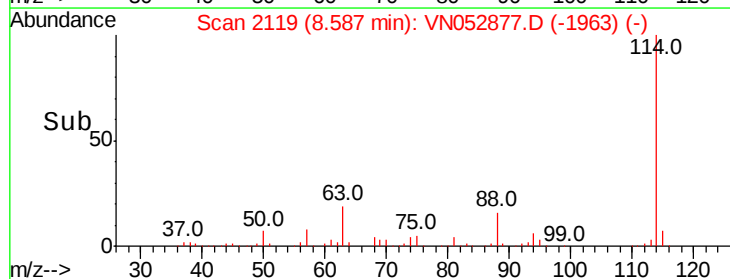
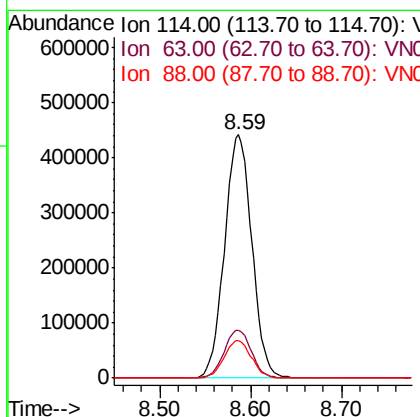
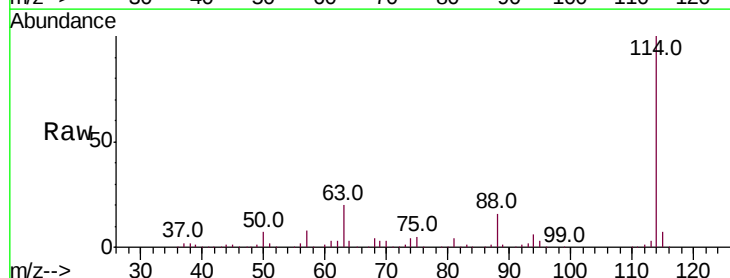
Manual Integrations
 APPROVED

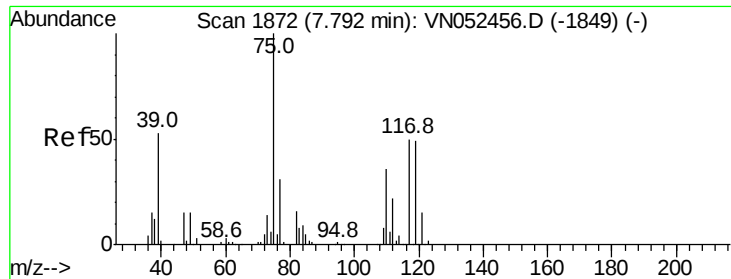
MMDadoda
 12/17/2018 3:05:26 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Tgt Ion: 114 Resp: 919710
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.9 25.3
 88 15.5 12.8 19.2





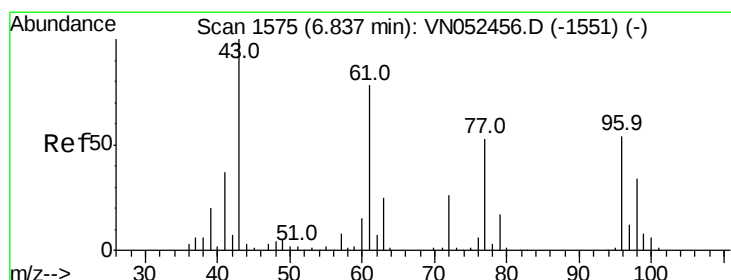
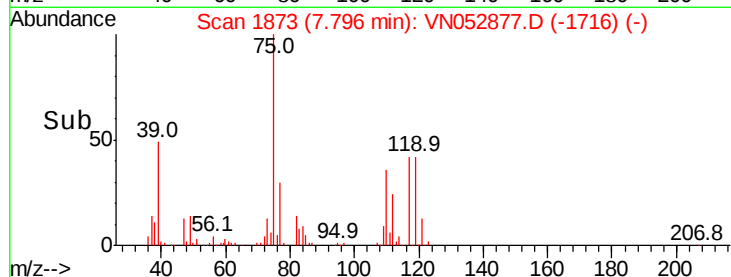
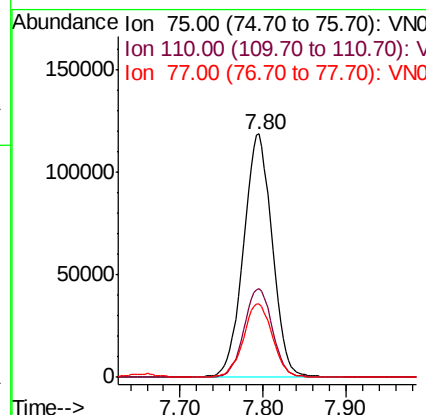
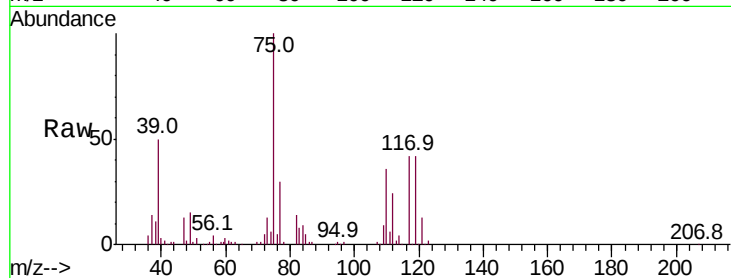
#29
 1,1-Dichloropropene
 Concen: 20.427 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	36.0	0.0	70.2
77	30.7	0.0	62.6

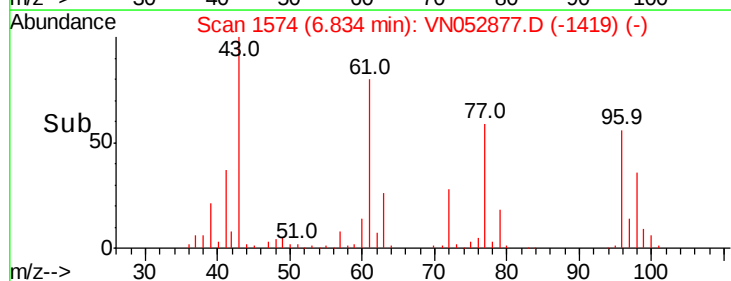
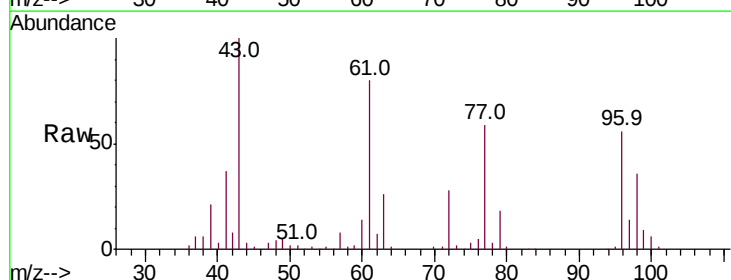
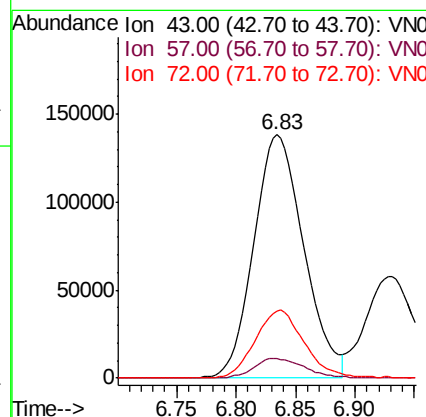
Manual Integrations
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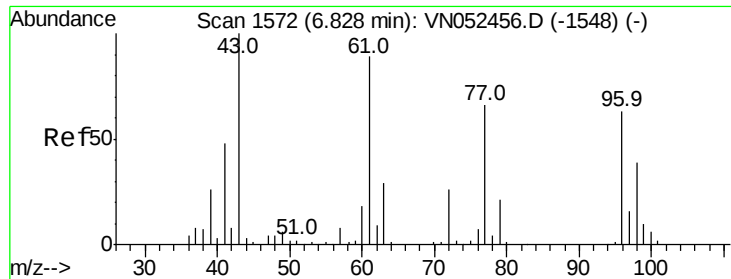
MMDadoda
 12/17/2018 3:05:26 PM



#30
 2-Butanone
 Concen: 106.696 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.2	6.2	9.4
72	27.7	21.0	31.6





#31

2,2-Dichloropropane

Concen: 21.401 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 77 Resp: 276711

Ion Ratio Lower Upper

77 100

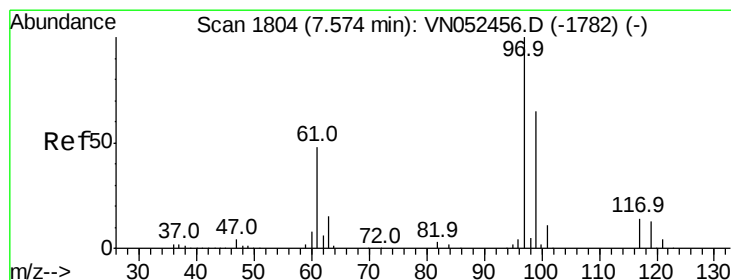
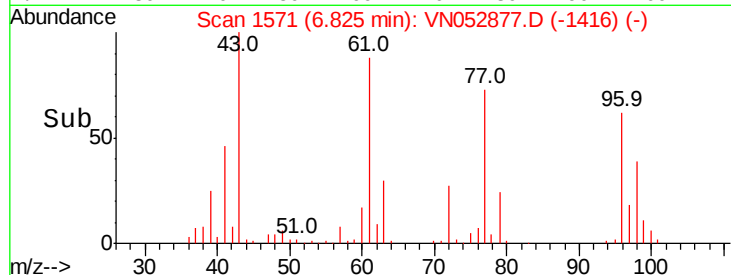
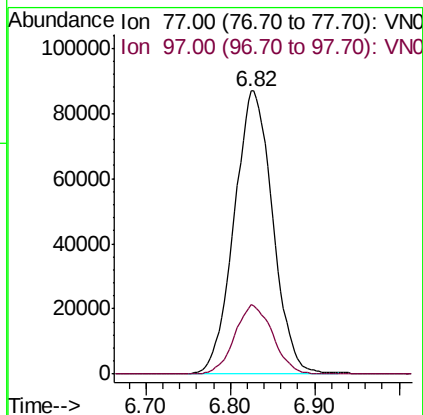
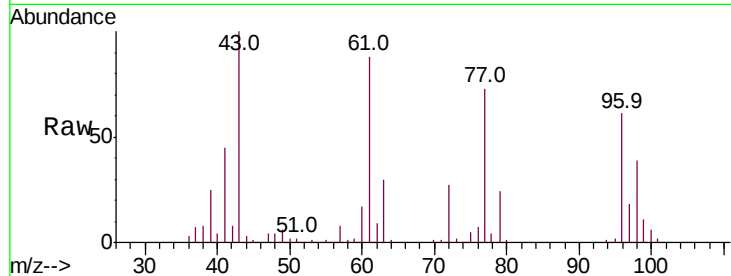
97 24.0 18.7 28.1

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 21.093 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

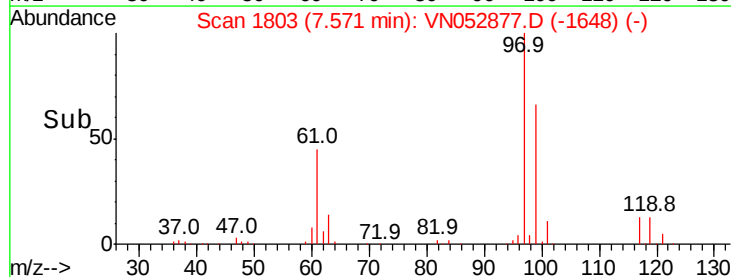
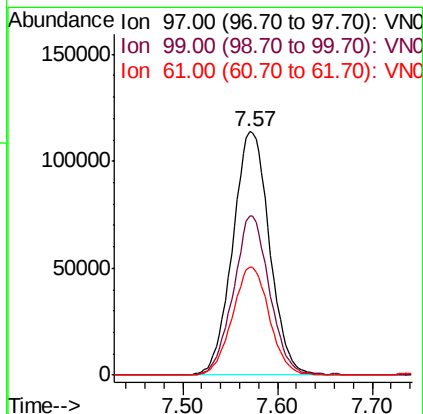
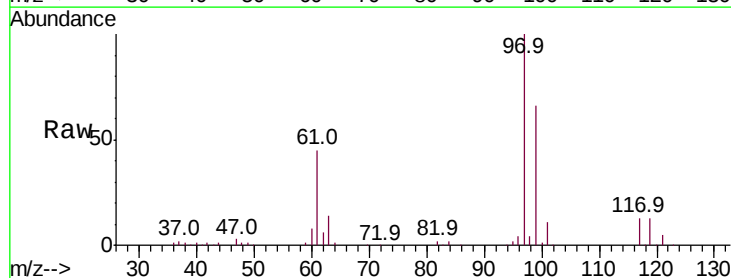
Tgt Ion: 97 Resp: 308256

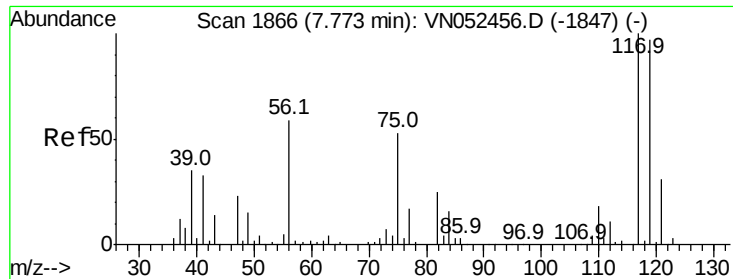
Ion Ratio Lower Upper

97 100

99 64.1 50.9 76.3

61 44.6 38.1 57.1





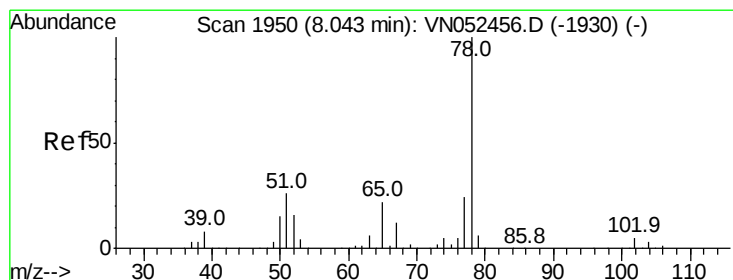
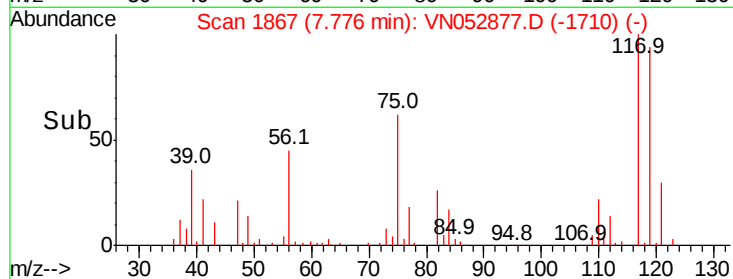
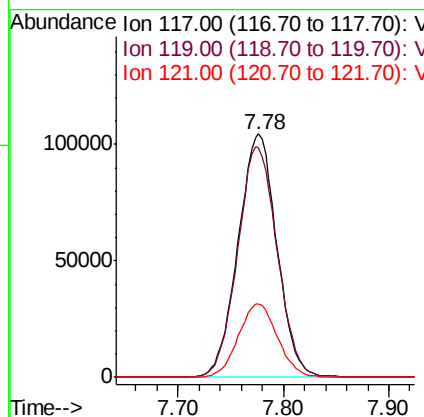
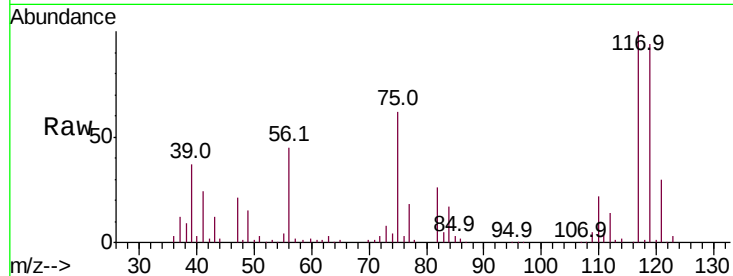
#33
Carbon Tetrachloride
Concen: 20.890 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	267127		
119	94.2	77.3	115.9	
121	30.3	24.9	37.3	

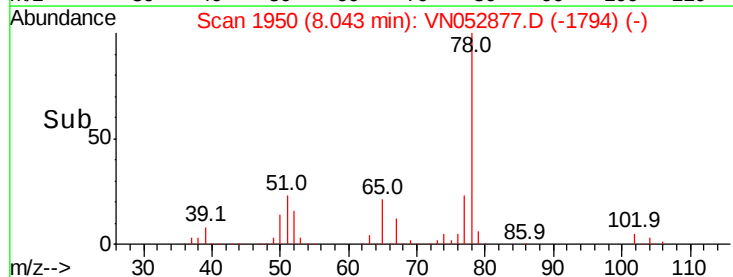
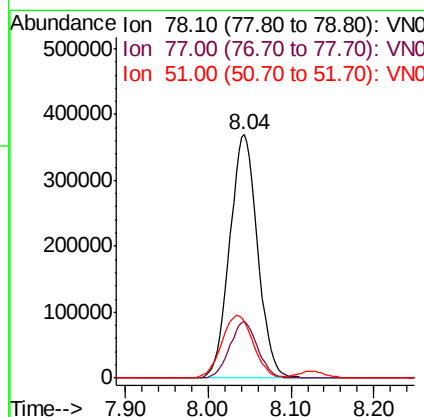
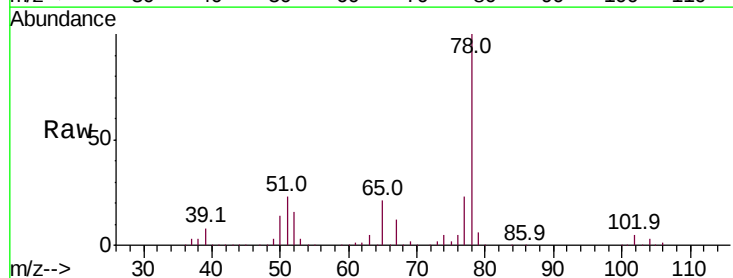
Manual Integrations
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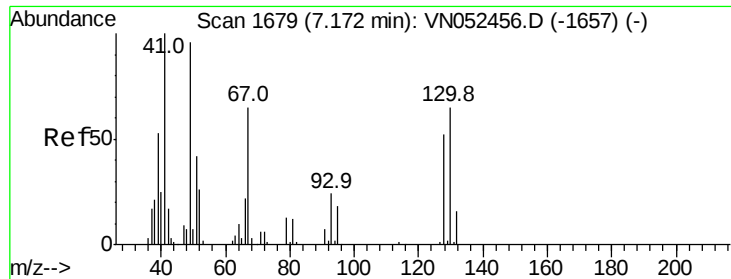
MMDadoda
12/17/2018 3:05:26 PM



#34
Benzene
Concen: 20.485 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	865005		
77	23.0	19.0	28.6	
51	23.1	20.5	30.7	





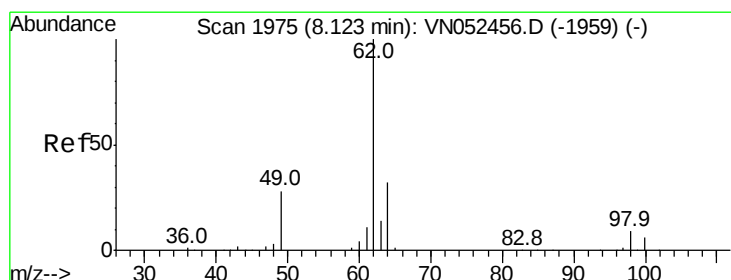
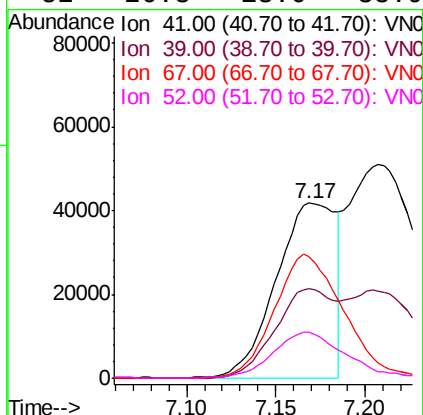
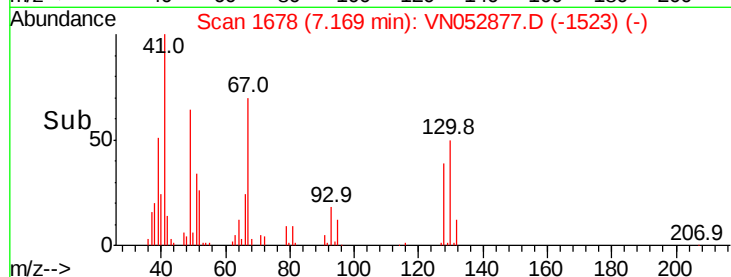
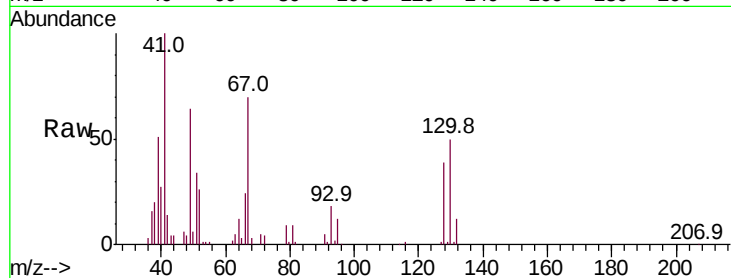
#35
Methacrylonitrile
Concen: 20.898 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	51.0	26.6	79.7
67	69.6	32.3	96.9
52	26.3	13.0	38.9

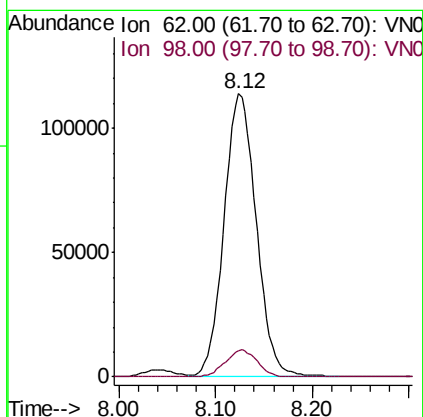
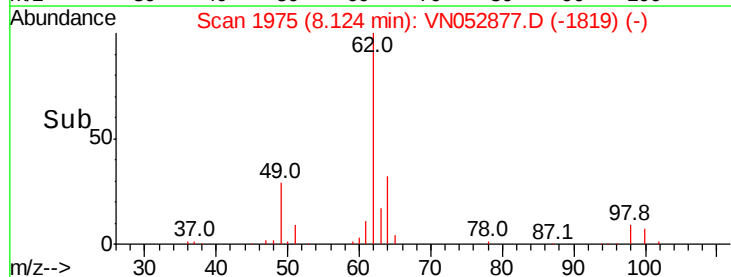
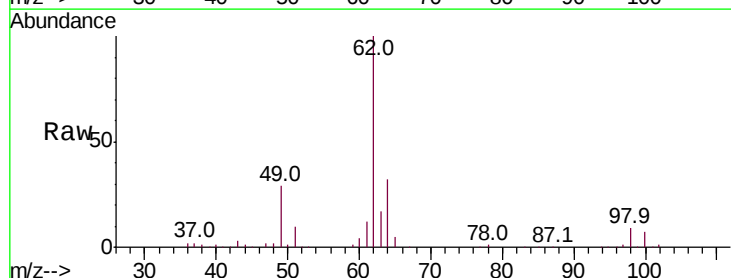
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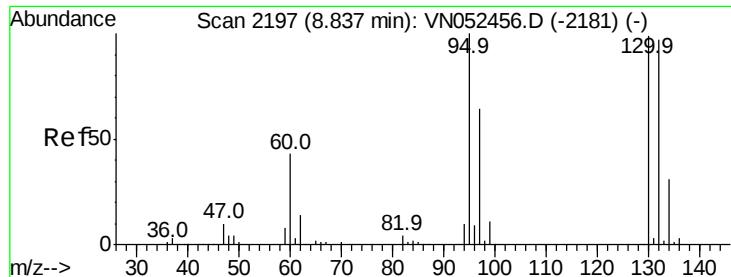
MMDadoda
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#36
1,2-Dichloroethane
Concen: 20.675 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.4	11.2





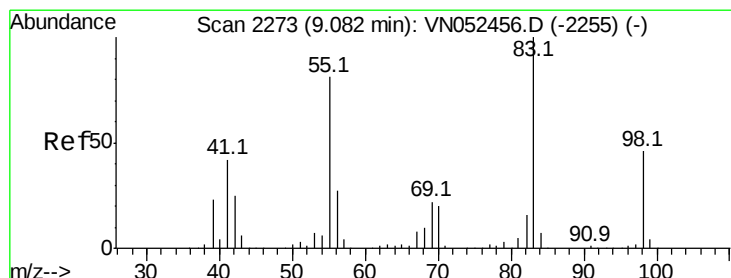
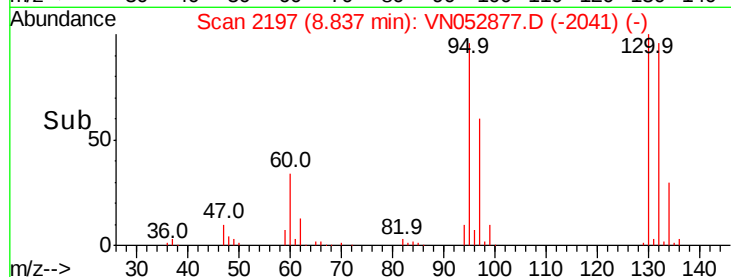
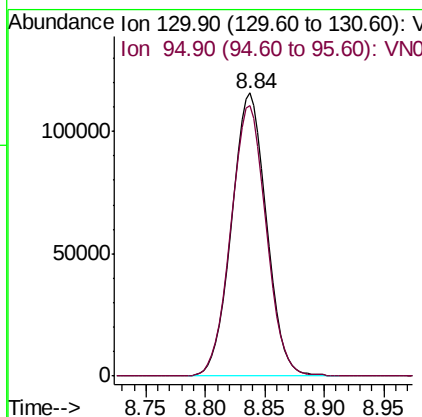
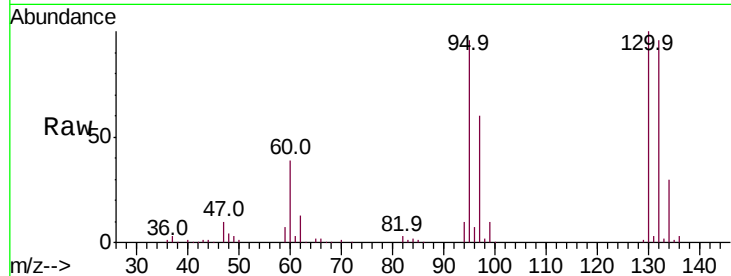
#37
 Trichloroethene
 Concen: 21.951 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion:130 Resp: 235046
 Ion Ratio Lower Upper
 130 100
 95 95.8 81.0 121.4

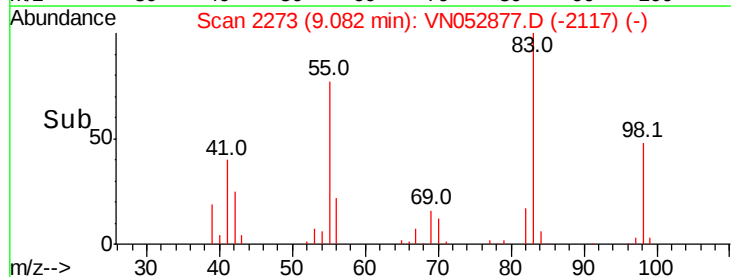
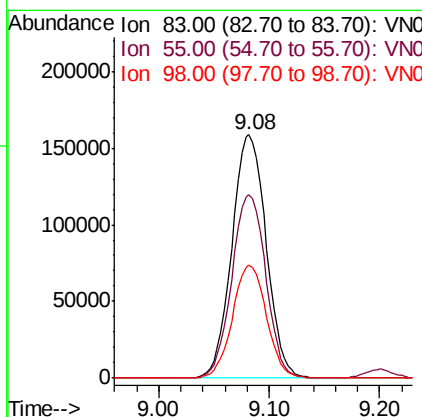
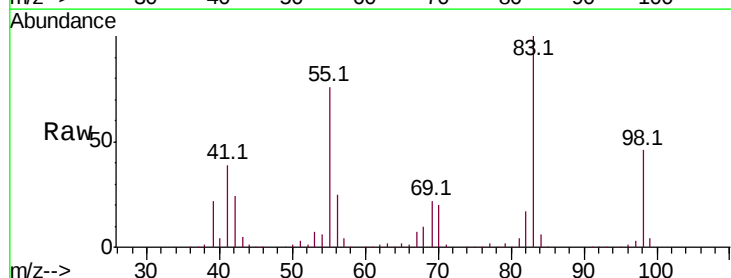
Manual Integrations
 APPROVED

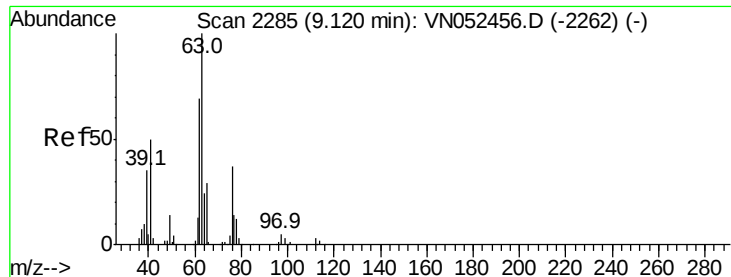
MMDadoda
 12/17/2018 3:05:26 PM



#38
 Methylcyclohexane
 Concen: 19.688 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Tgt Ion: 83 Resp: 342305
 Ion Ratio Lower Upper
 83 100
 55 74.9 39.8 119.4
 98 46.1 22.9 68.5





#39

1,2-Dichloropropane

Concen: 20.201 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 63 Resp: 228658

Ion Ratio Lower Upper

63 100

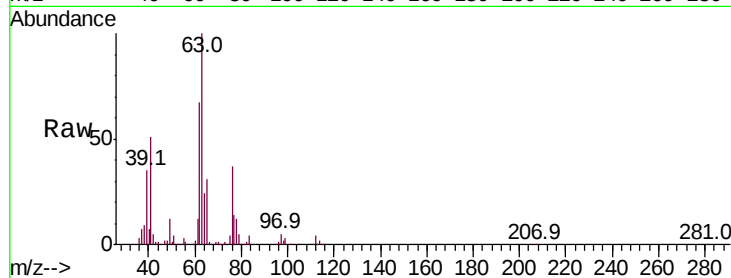
65 31.0 23.6 35.4

Manual Integrations

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Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

9.12

120000

100000

80000

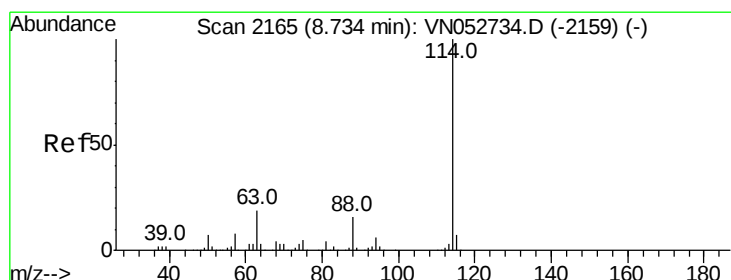
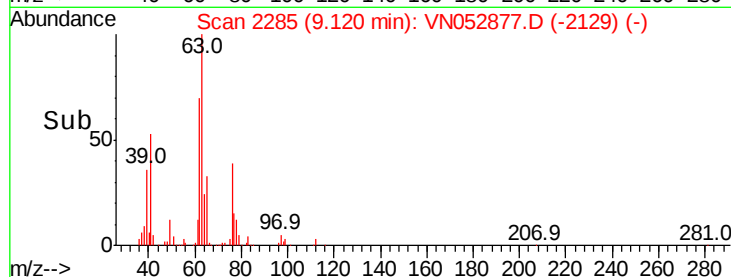
60000

40000

20000

0

Time--> 9.00 9.05 9.10 9.15 9.20



#40

Dibromomethane

Concen: 21.386 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

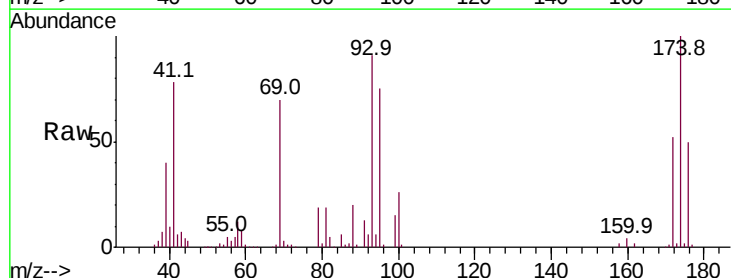
Tgt Ion: 93 Resp: 130814

Ion Ratio Lower Upper

93 100

95 83.2 0.0 168.4

174 111.4 0.0 210.0



Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

80000

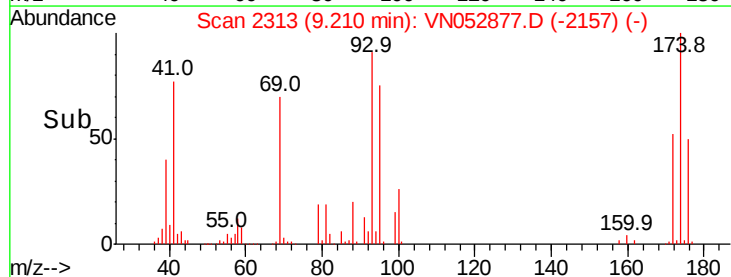
60000

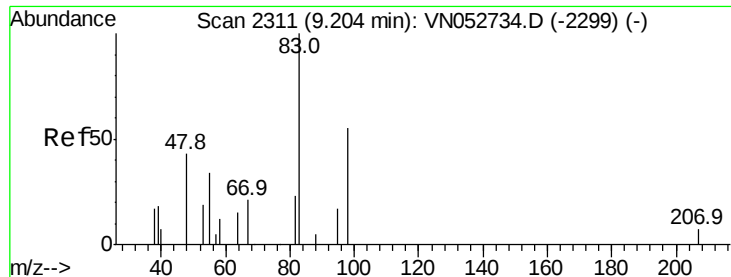
40000

20000

0

Time--> 9.10 9.20 9.30





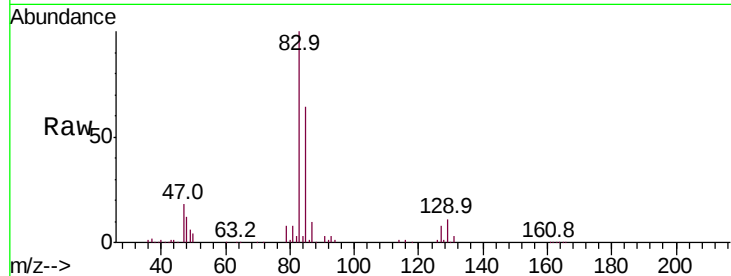
#41
Bromodichloromethane
Concen: 20.570 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

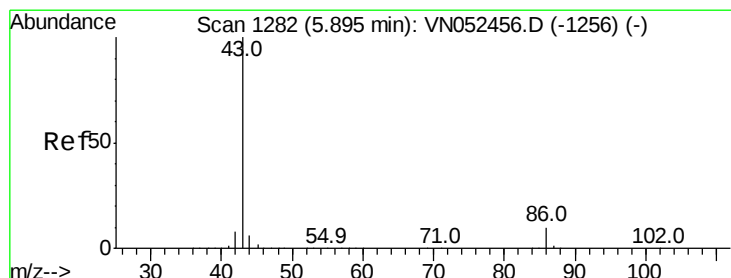
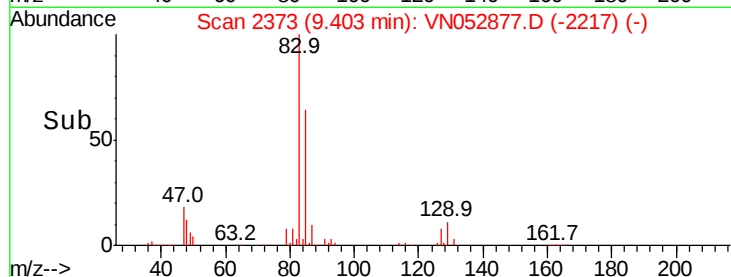
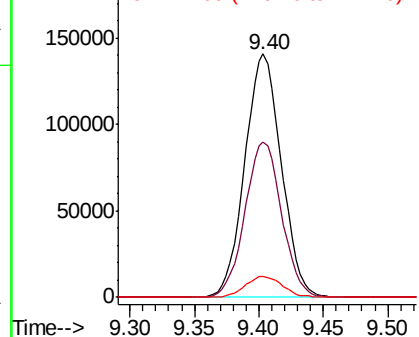
Tot Ion	83	85	127	Ratio	Lower	Upper
83	100					
85	63.7	52.4	78.6			
127	8.4	6.6	9.8			

Manual Integrations
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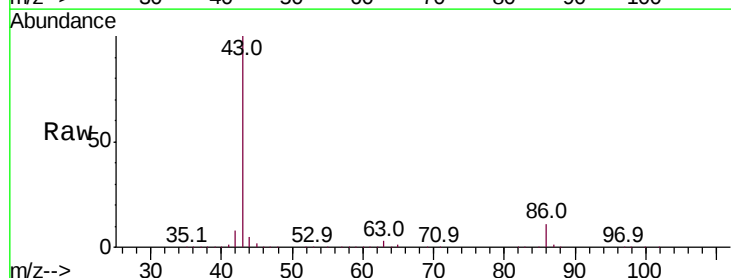


Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO

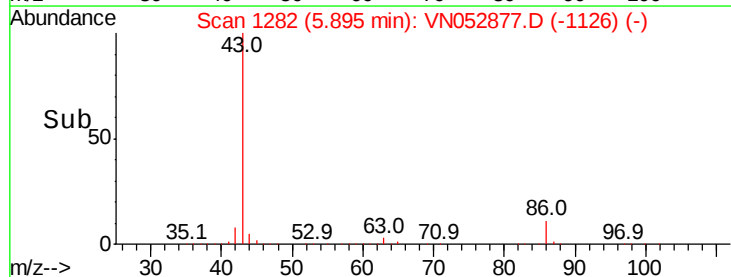
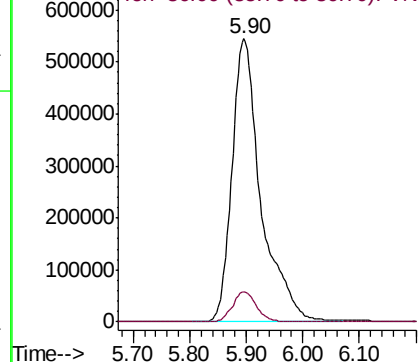


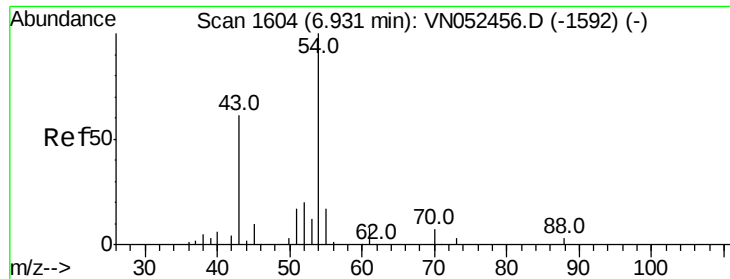
#42
Vinyl Acetate
Concen: 95.797 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	43	86	Ratio	Lower	Upper
43	100				
86	8.8	6.5	9.7		



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 86.00 (85.70 to 86.70): VNO





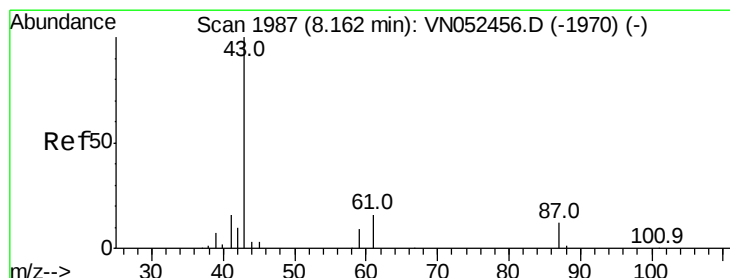
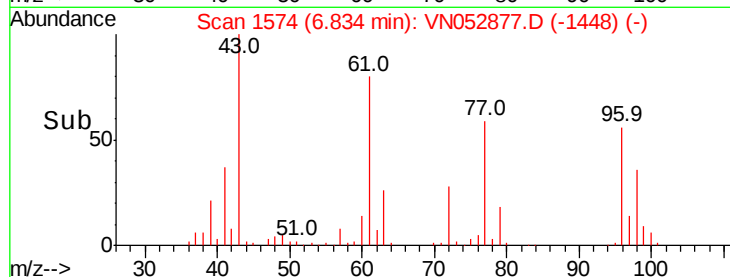
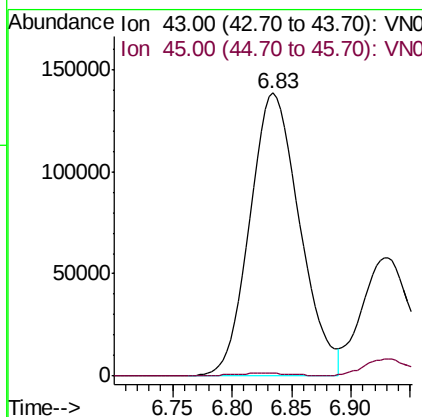
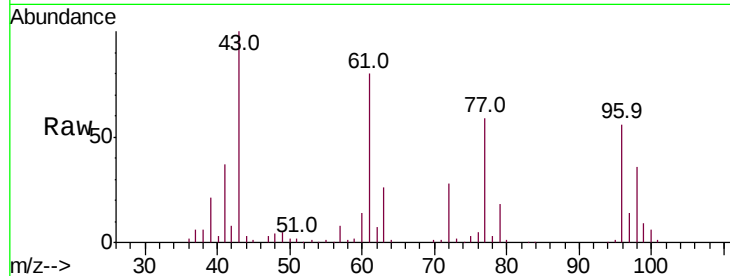
#43
Ethyl Acetate
Concen: 50.177 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.10 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 43 Resp: 400985
Ion Ratio Lower Upper
43 100
45 1.3 1.0 1.6

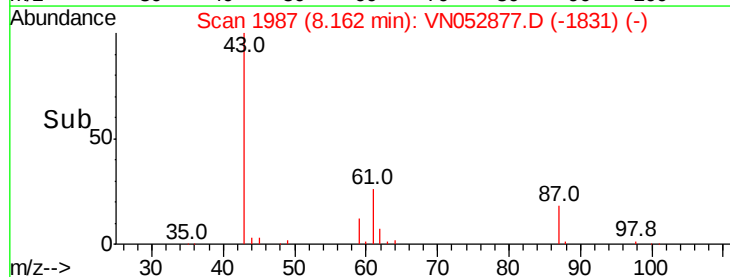
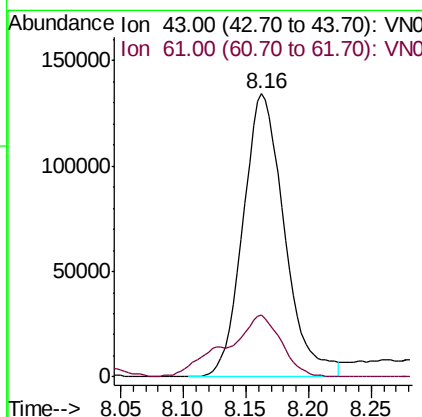
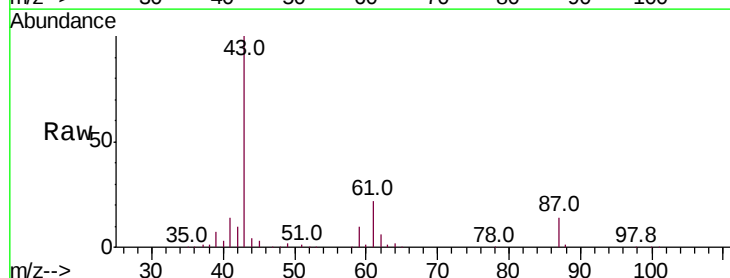
Manual Integrations
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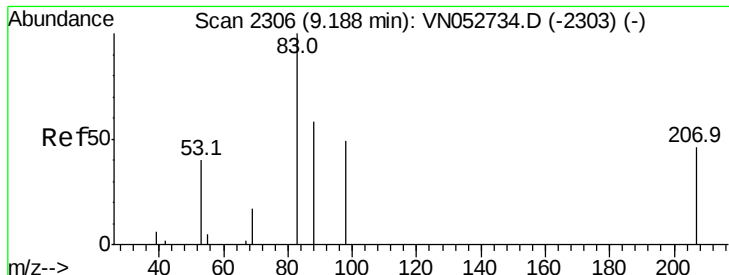
MMDadoda
12/17/2018 3:05:26 PM



#44
Isopropyl Acetate
Concen: 22.011 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion: 43 Resp: 308495
Ion Ratio Lower Upper
43 100
61 19.5 16.0 24.0





#45

1,4-Dioxane

Concen: 486.990 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

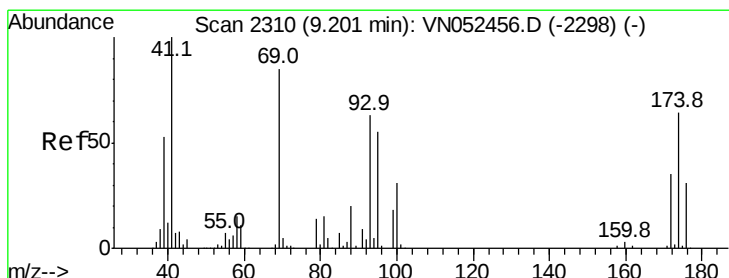
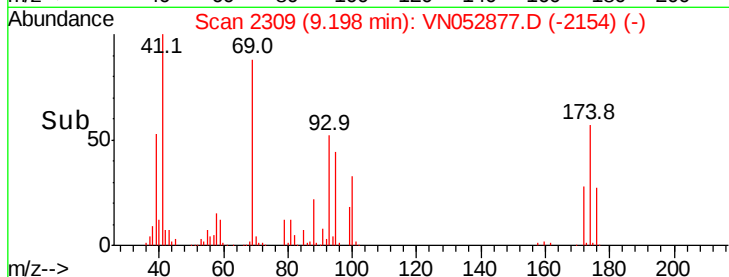
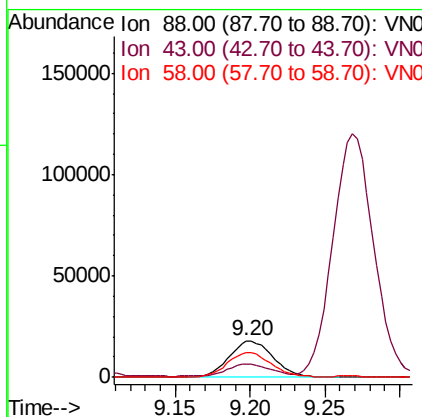
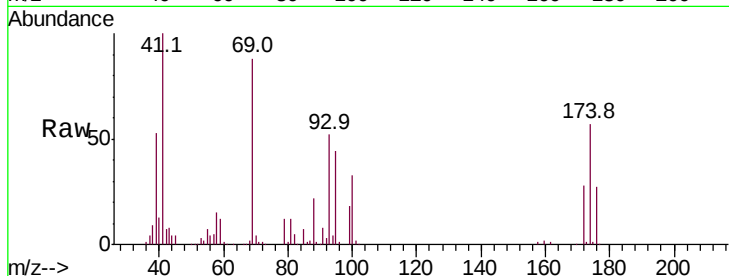
ClientSampleId :

VSTDCCC020

Tot Ion:	88	Resp:	37339
Ion	Ratio	Lower	Upper
88	100		
43	32.0	29.5	44.3
58	68.1	61.5	92.3

Manual Integrations
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#46

Methyl methacrylate

Concen: 20.777 ug/l

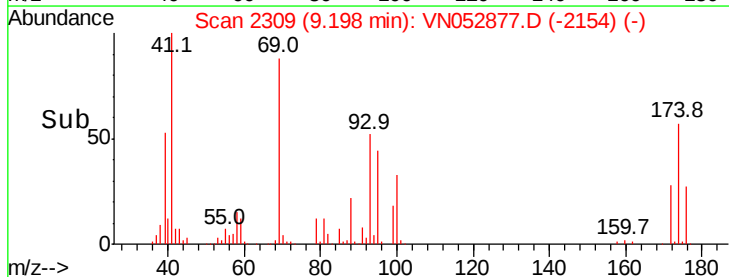
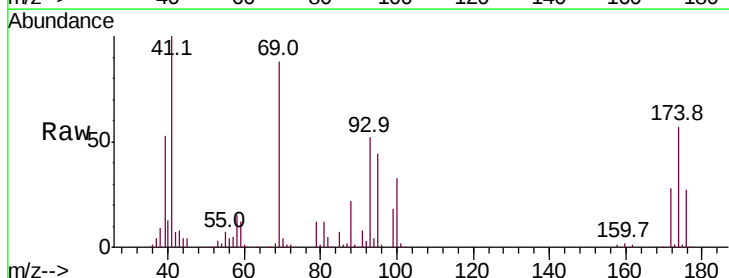
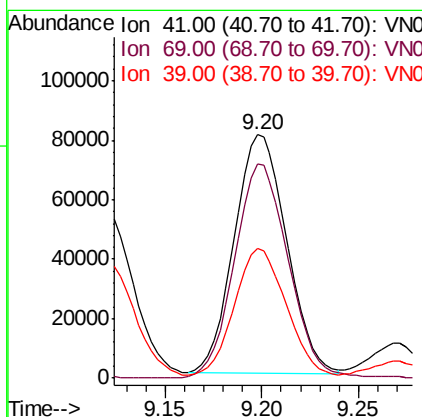
RT: 9.20 min Scan# 2309

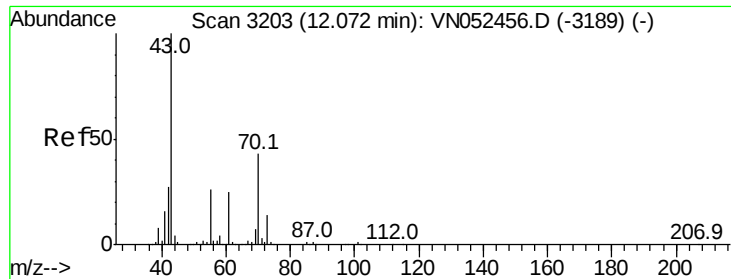
Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion:	41	Resp:	151198
Ion	Ratio	Lower	Upper
41	100		
69	89.3	42.5	127.6
39	53.4	26.3	78.9





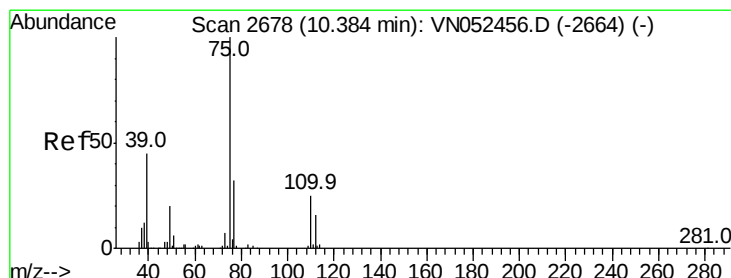
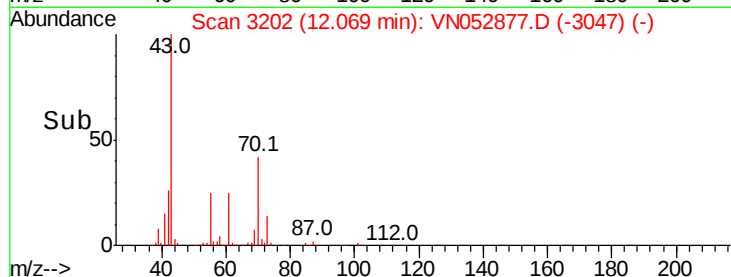
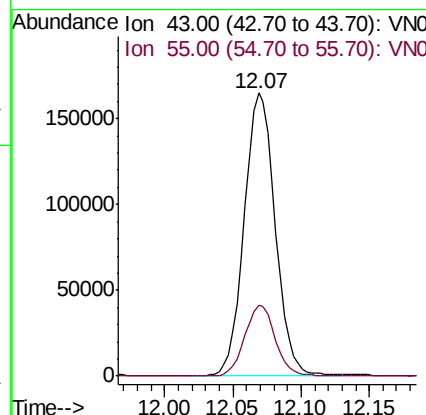
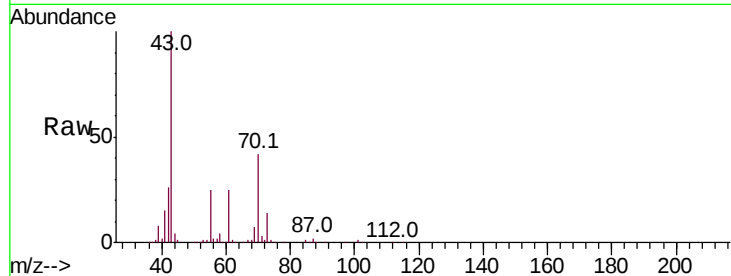
#47
n-amvl Acetate
Concen: 22.264 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 43 Resp: 258719
Ion Ratio Lower Upper
43 100
55 25.0 21.1 31.7

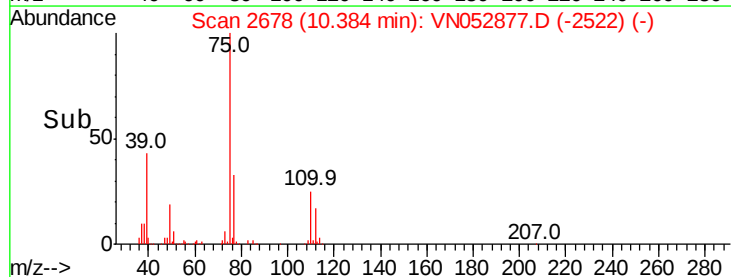
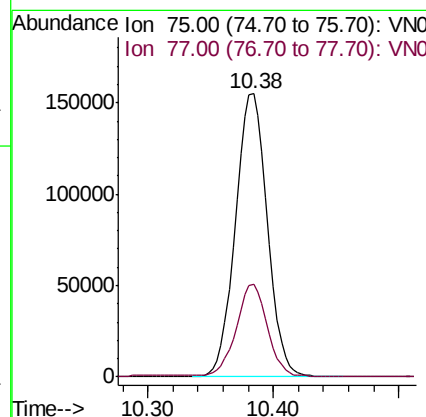
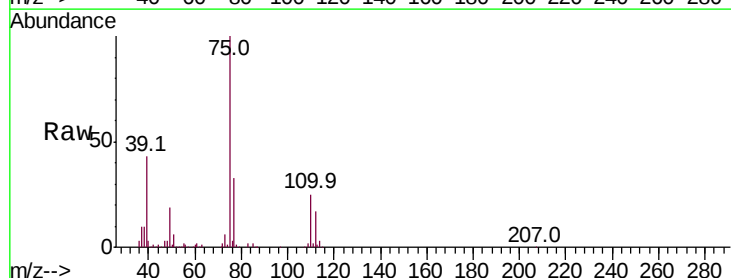
Manual Integrations
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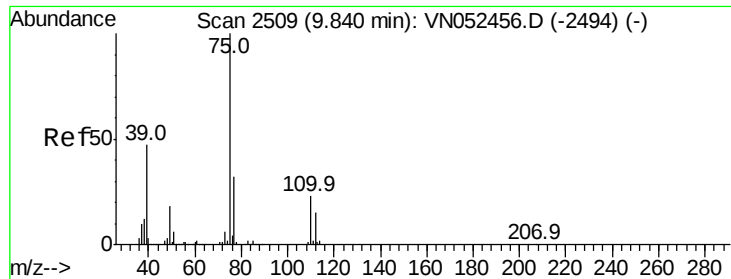
MMDadoda
12/17/2018 3:05:26 PM



#48
t-1,3-Dichloropropene
Concen: 20.878 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion: 75 Resp: 273571
Ion Ratio Lower Upper
75 100
77 32.5 25.6 38.4





#49

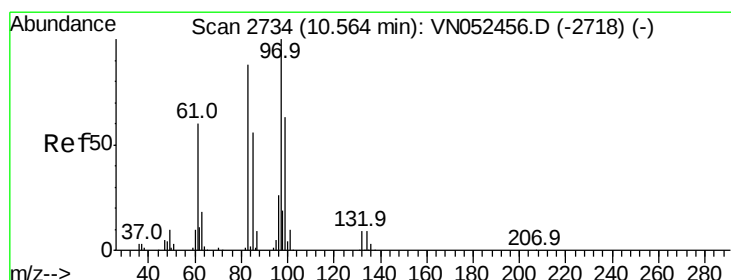
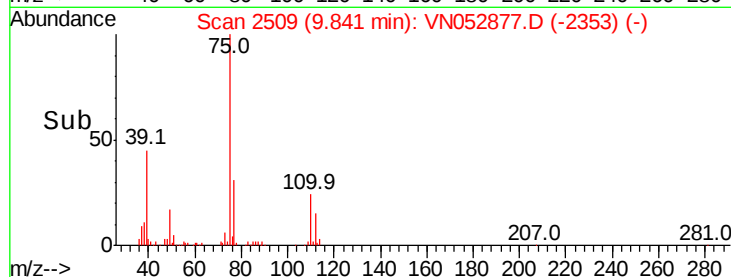
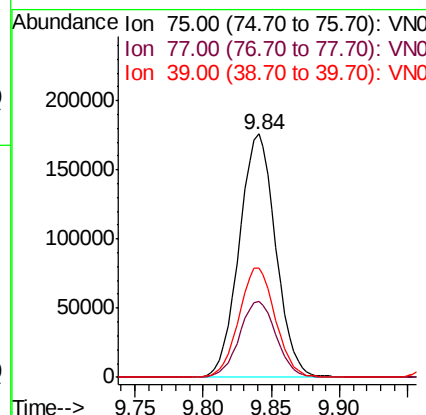
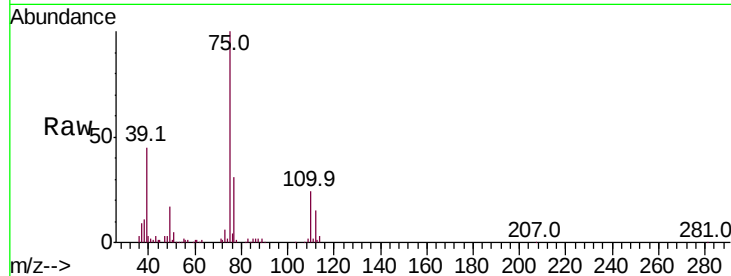
cis-1,3-Dichloropropene
Concen: 20.464 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0
39	44.9	37.3	55.9

Manual Integrations
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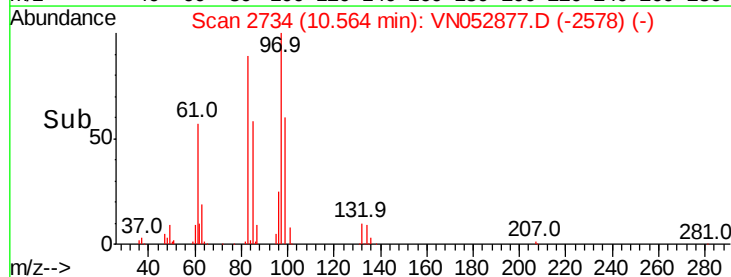
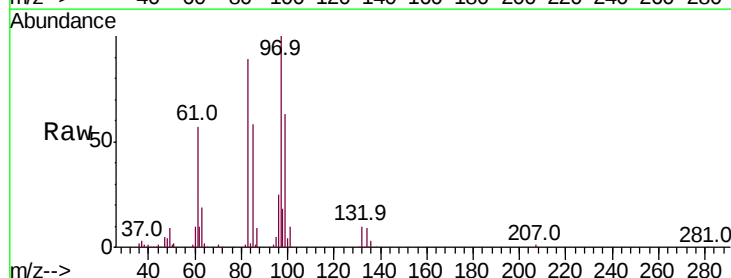
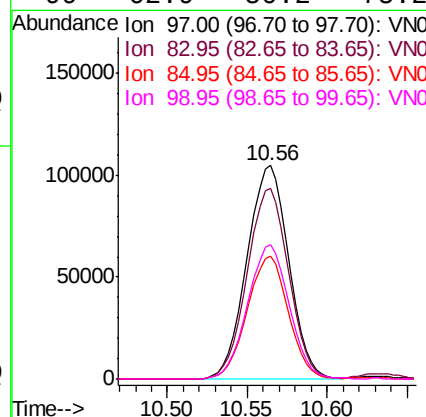
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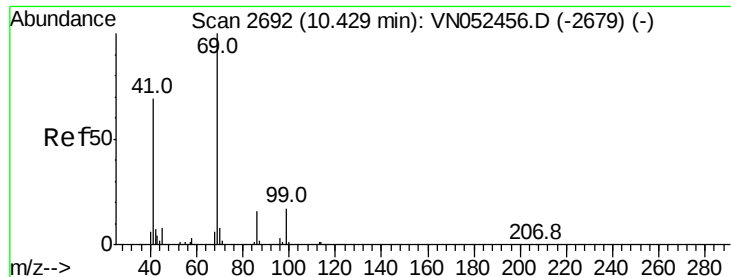


#50

1,1,2-Trichloroethane
Concen: 21.599 ug/l
RT: 10.56 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.2	70.4	105.6
85	57.7	45.0	67.6
99	62.9	50.2	75.2





#51

Ethyl methacrylate

Concen: 21.581 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

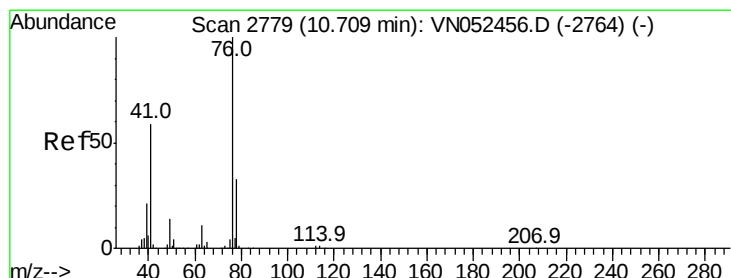
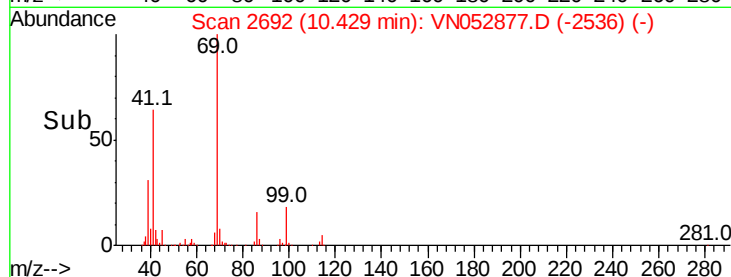
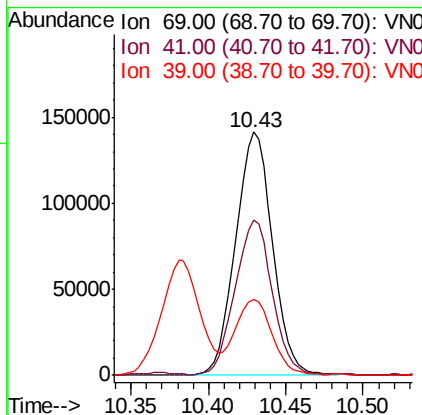
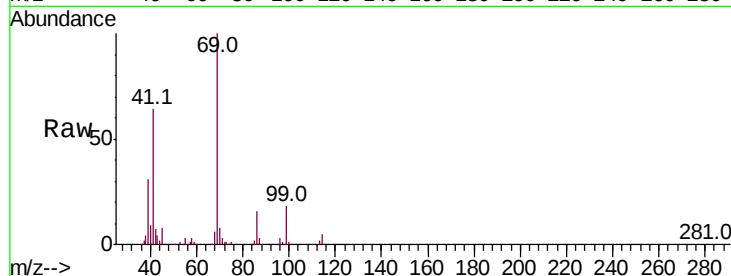
ClientSampleId :

VSTDCCC020

Tot Ion:	69	Resp:	235006
Ion Ratio	Lower	Upper	
69	100		
41	63.6	34.4	103.3
39	30.8	16.4	49.2

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 20.971 ug/l

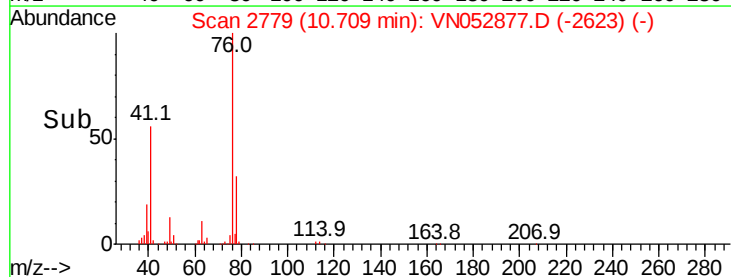
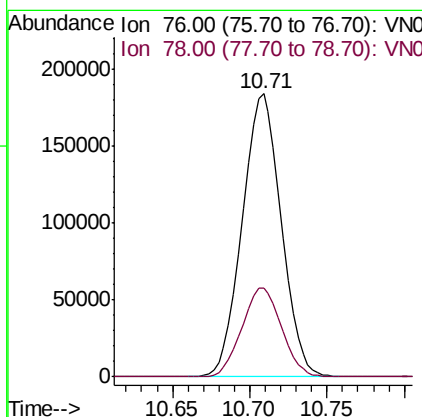
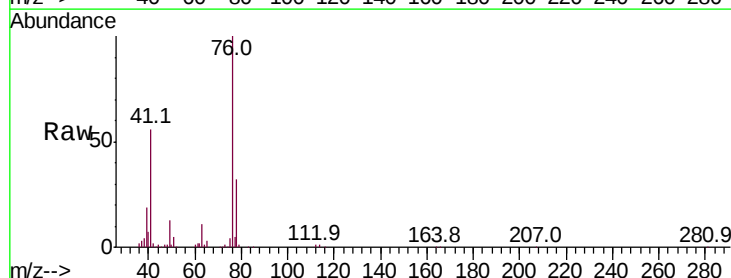
RT: 10.71 min Scan# 2779

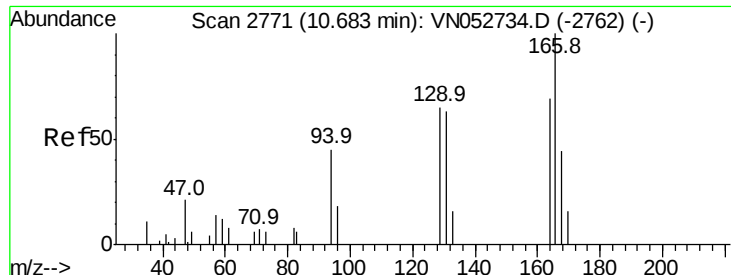
Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion:	76	Resp:	323652
Ion Ratio	Lower	Upper	
76	100		
78	32.1	0.0	64.8





#53

Dibromochloromethane

Concen: 21.700 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:129 Resp: 207145

Ion Ratio Lower Upper

129 100

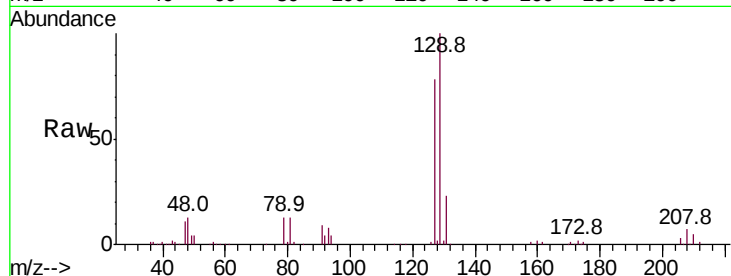
127 76.2 37.6 112.8

Manual Integrations

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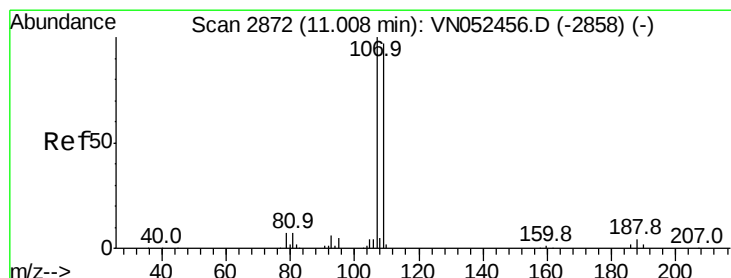
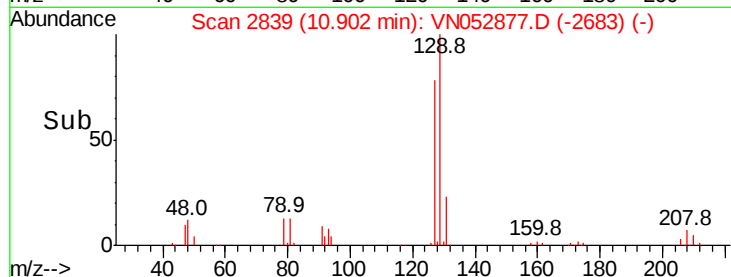
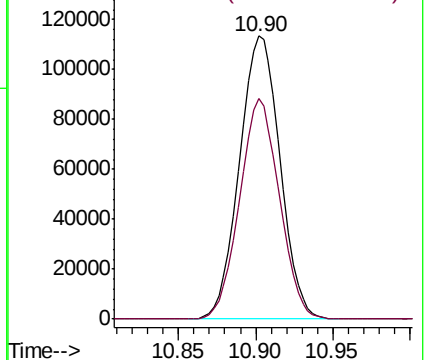
MMDadoda

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 21.609 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052877.D

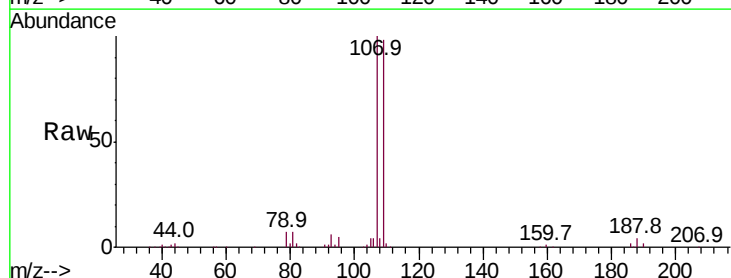
Acq: 14 Dec 2018 9:45

Tgt Ion:107 Resp: 183082

Ion Ratio Lower Upper

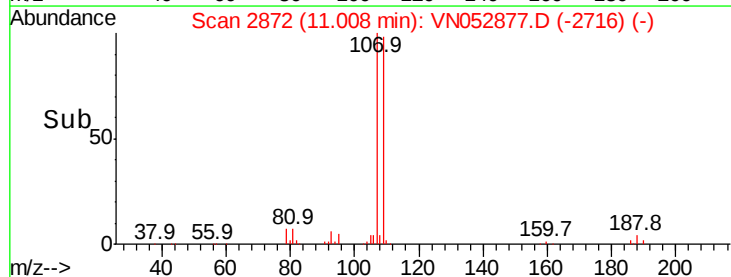
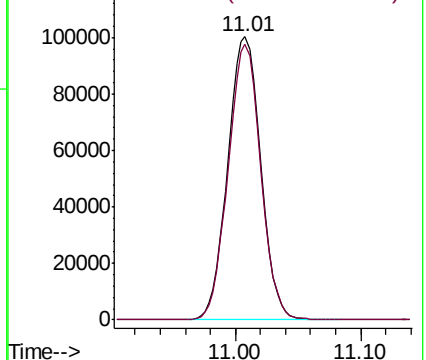
107 100

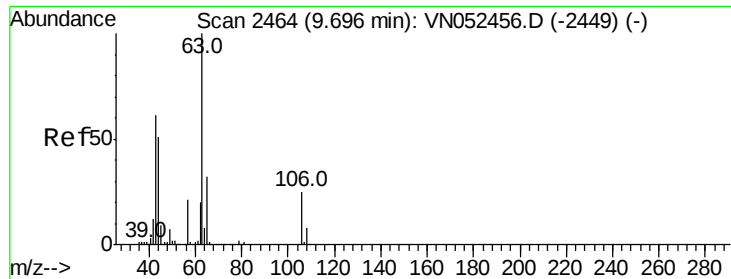
109 95.9 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 106.878 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 63 Resp: 681274

Ion Ratio Lower Upper

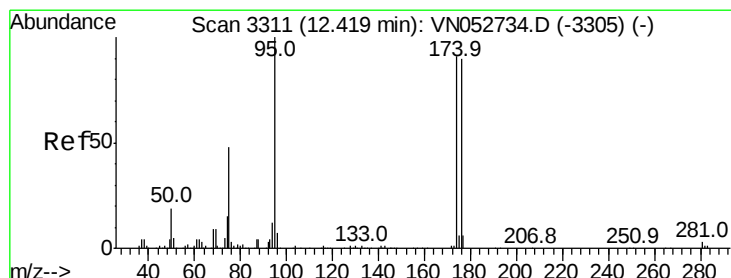
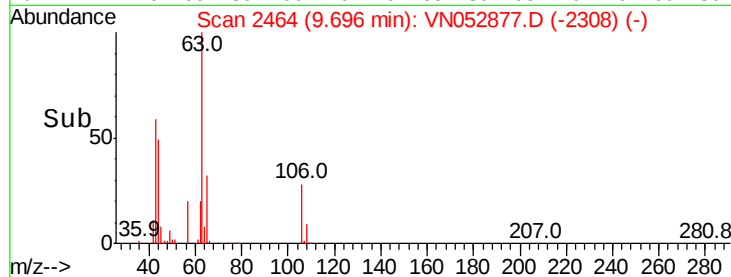
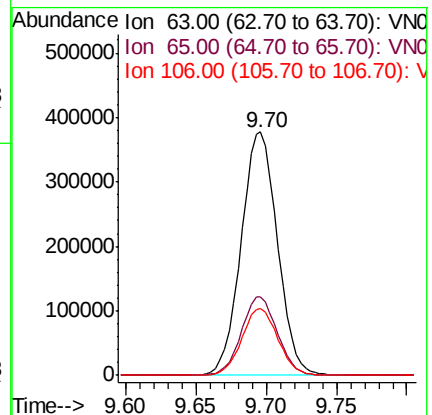
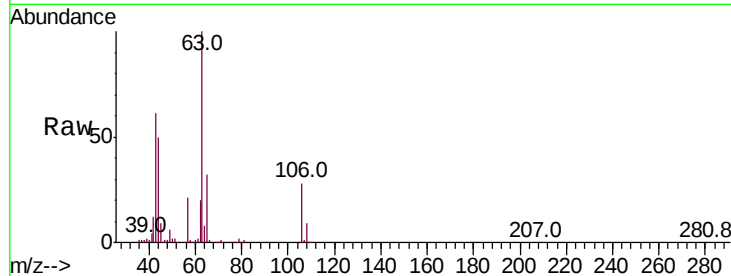
63 100

65 32.0 25.4 38.2

106 27.4 20.4 30.6

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#56

Bromoform

Concen: 21.961 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

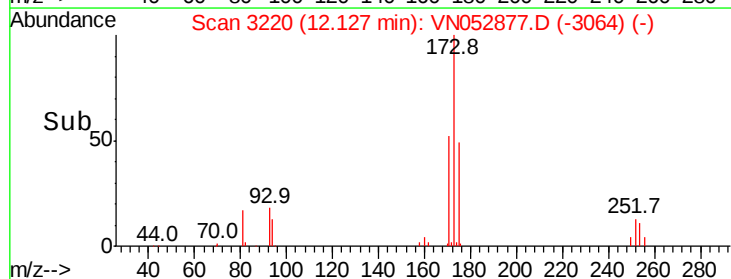
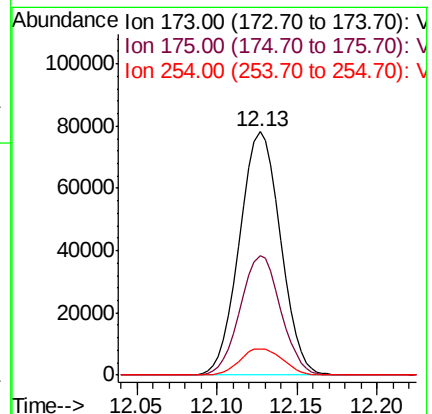
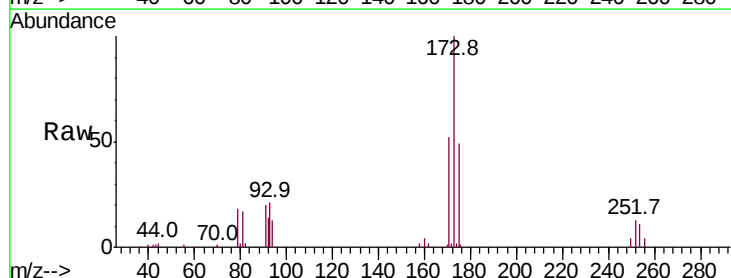
Tgt Ion: 173 Resp: 137024

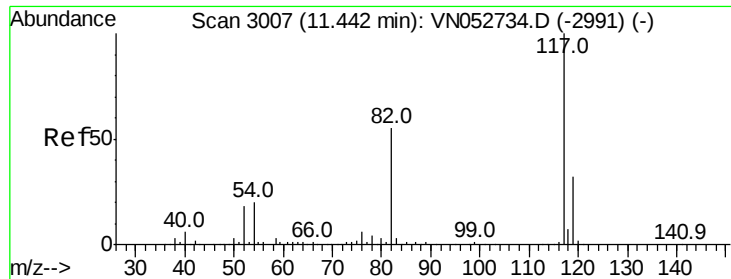
Ion Ratio Lower Upper

173 100

175 48.5 38.7 58.1

254 11.3 8.4 12.6





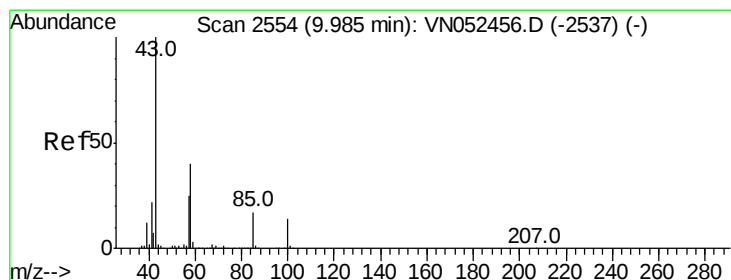
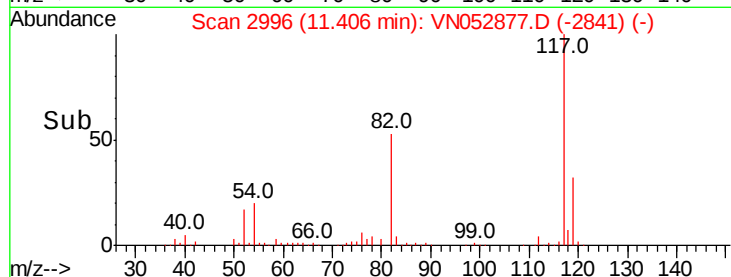
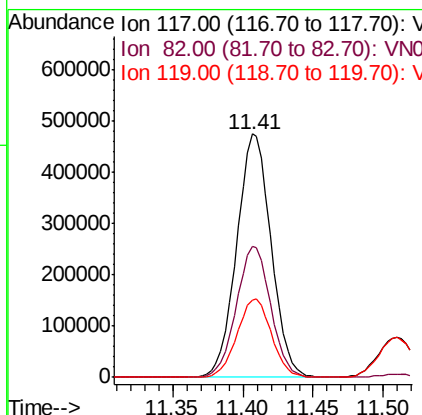
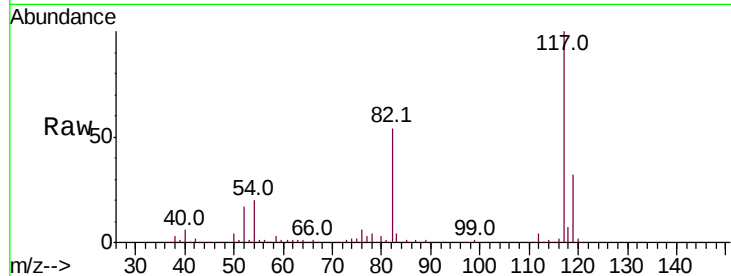
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	44.2	66.2
119	32.1	25.4	38.2

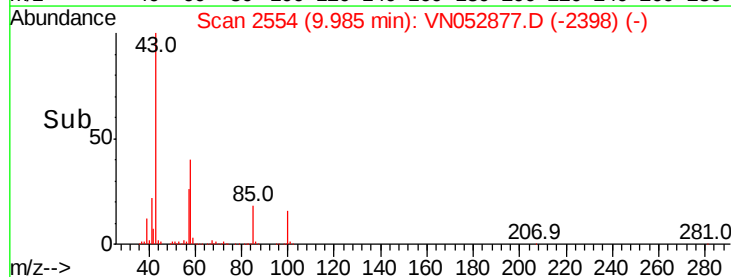
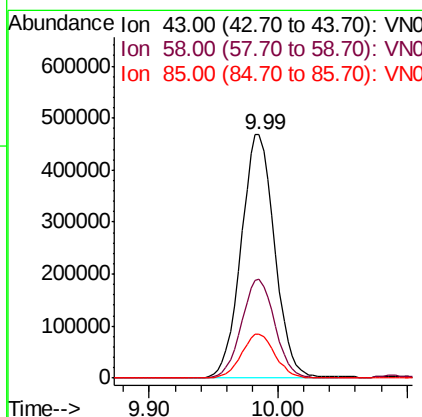
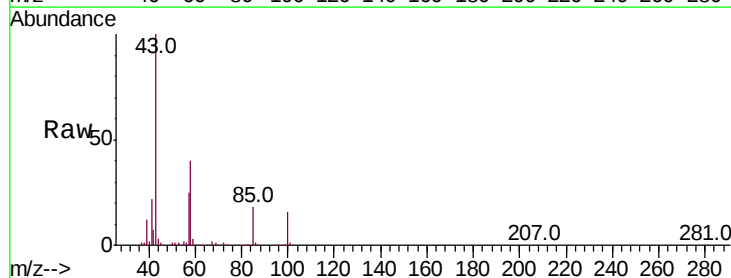
Manual Integrations
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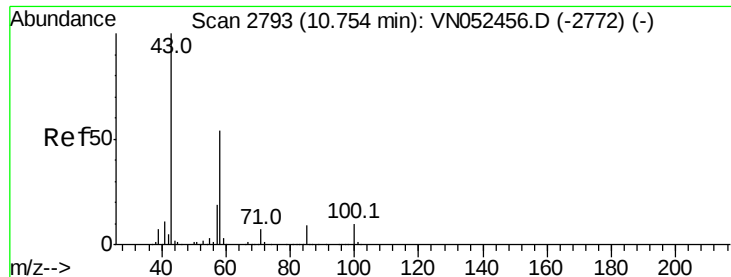
MMDadoda
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#58
4-Methyl-2-Pentanone
Concen: 107.080 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.6	31.6	47.4
85	18.1	13.3	19.9





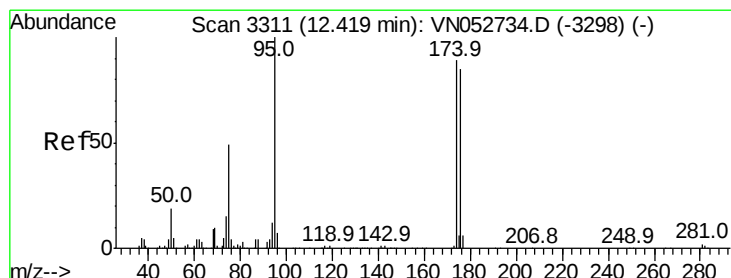
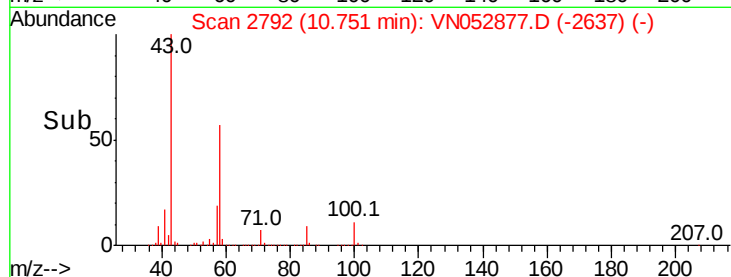
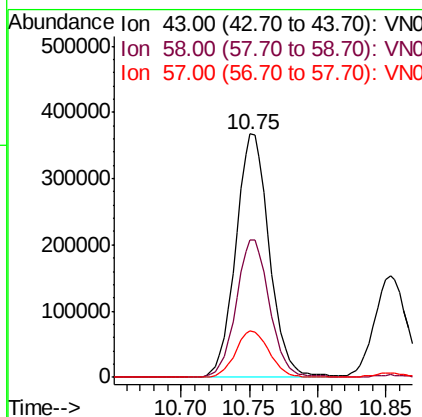
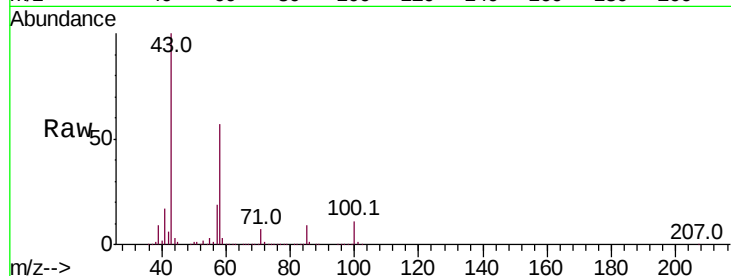
#59
2-Hexanone
Concen: 115.471 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.3	43.2	64.8
57	19.5	14.9	22.3

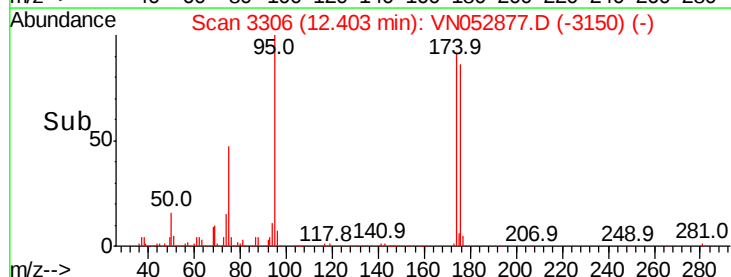
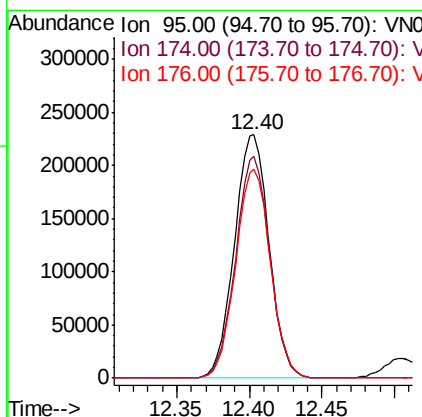
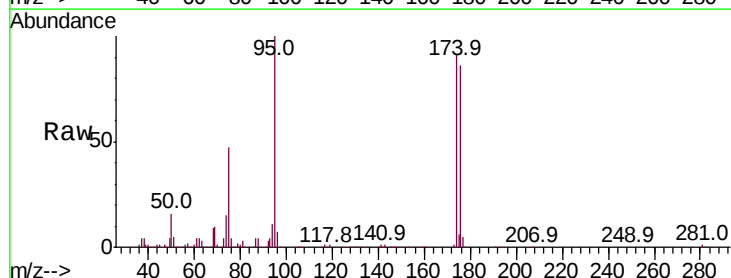
Manual Integrations
APPROVED

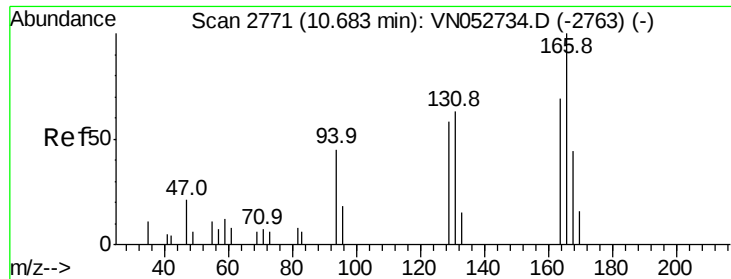
MMDadoda
12/17/2018 3:05:26 PM



#60
4-Bromofluorobenzene
Concen: 115.471 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.9	67.9	101.9
176	86.1	66.4	99.6





#61

Tetrachloroethene

Concen: 24.938 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:164 Resp: 249983

Ion Ratio Lower Upper

164 100

166 124.3 104.6 157.0

129 90.2 75.3 112.9

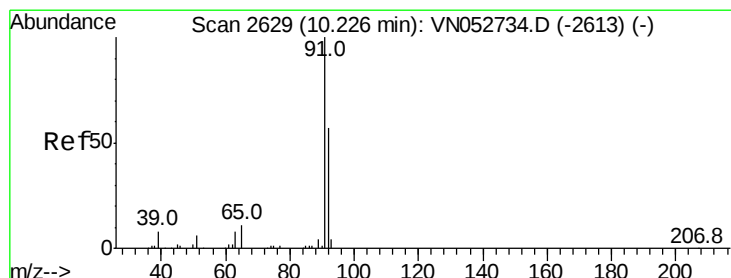
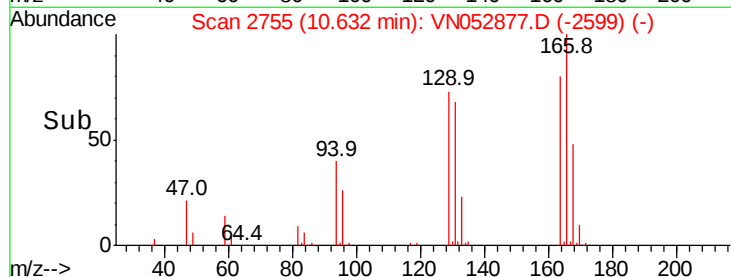
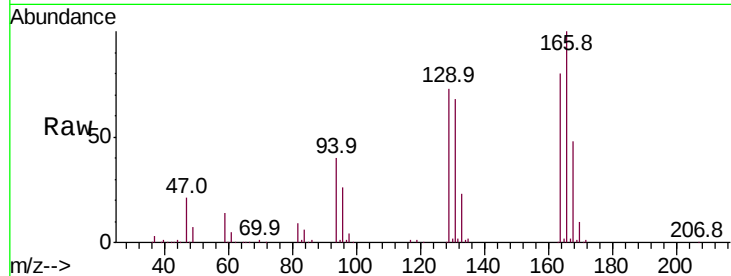
131 84.4 74.3 111.5

Manual Integrations

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#62

Toluene

Concen: 20.970 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052877.D

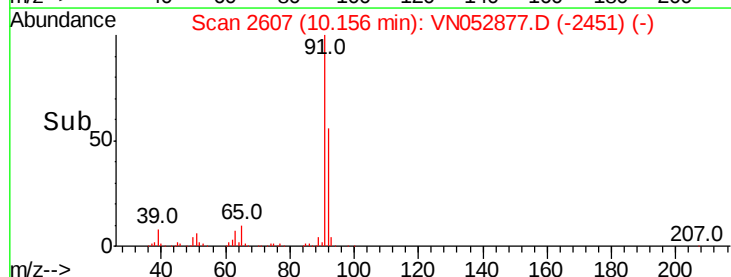
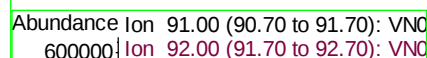
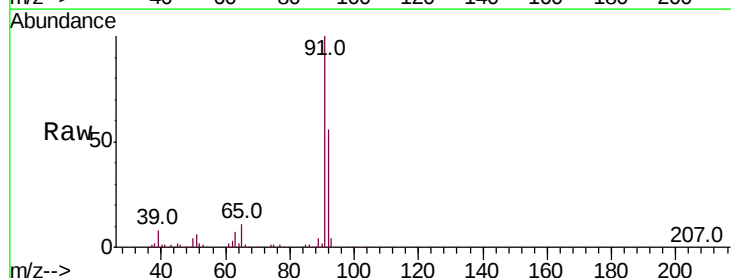
Acq: 14 Dec 2018 9:45

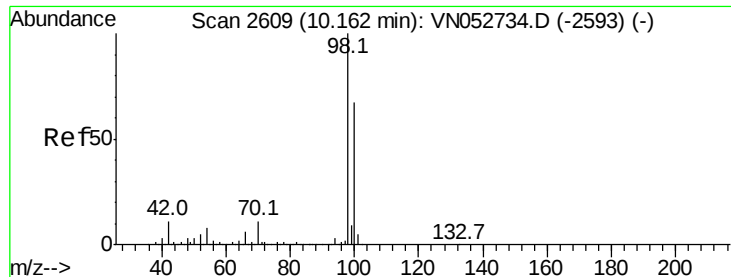
Tgt Ion: 91 Resp: 940894

Ion Ratio Lower Upper

91 100

92 56.7 45.4 68.2





#63

Toluene-d8

Concen: 20.970 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 98 Resp: 1091924

Ion Ratio Lower Upper

98 100

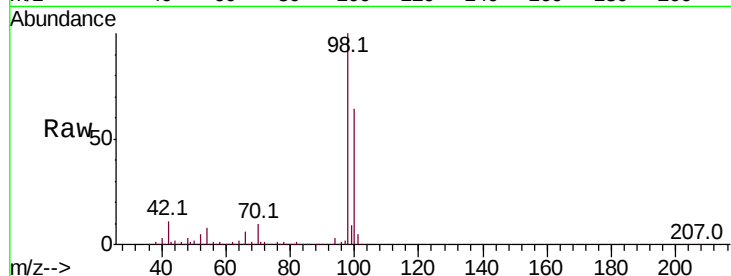
100 64.3 51.1 76.7

Manual Integrations

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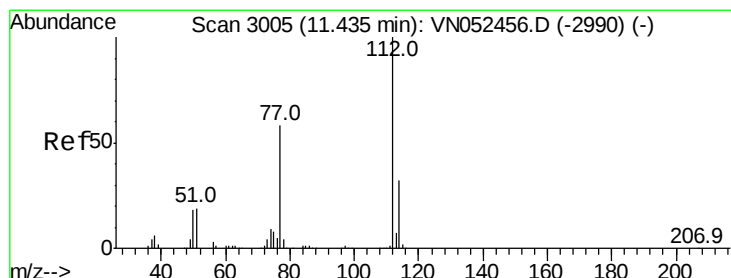
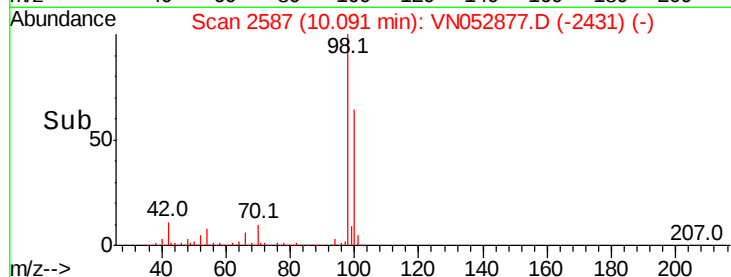
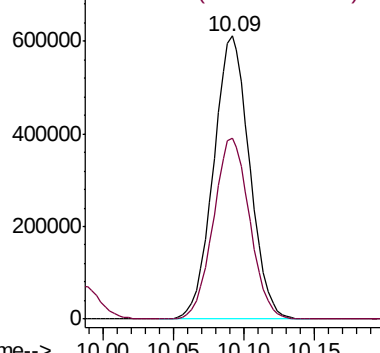
MMDadoda

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Abundance Ion 98.00 (97.70 to 98.70): VN052877.D

Ion 100.00 (99.70 to 100.70): VN052877.D



#64

Chlorobenzene

Concen: 21.326 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN052877.D

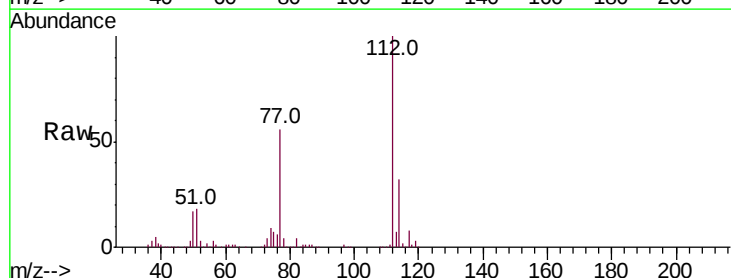
Acq: 14 Dec 2018 9:45

Tgt Ion: 112 Resp: 584031

Ion Ratio Lower Upper

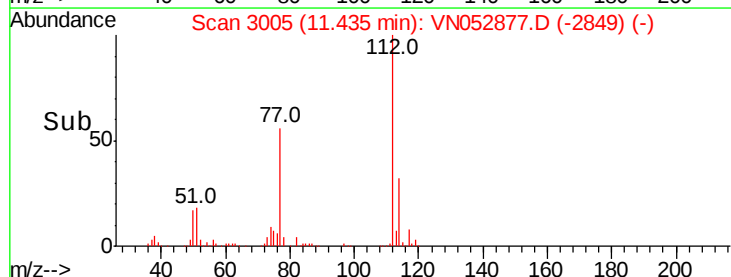
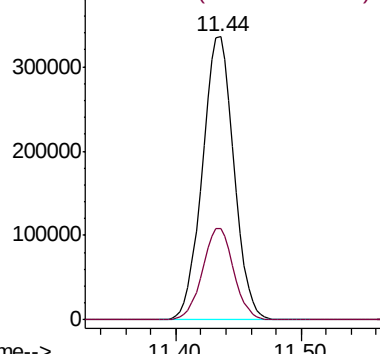
112 100

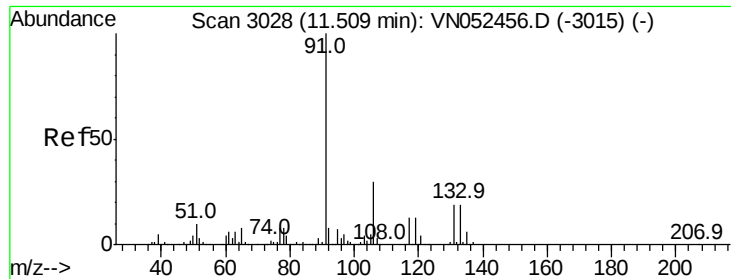
114 32.3 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): VN052877.D

Ion 114.00 (113.70 to 114.70): VN052877.D





#65

1,1,1,2-Tetrachloroethane

Concen: 21.695 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

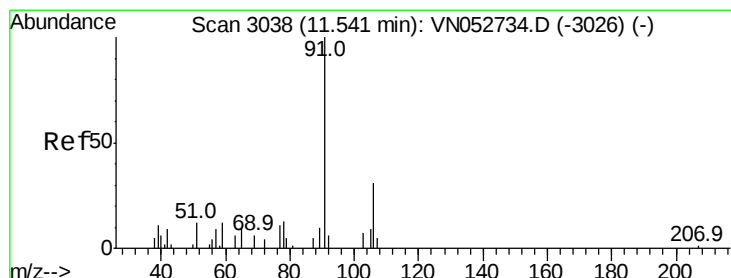
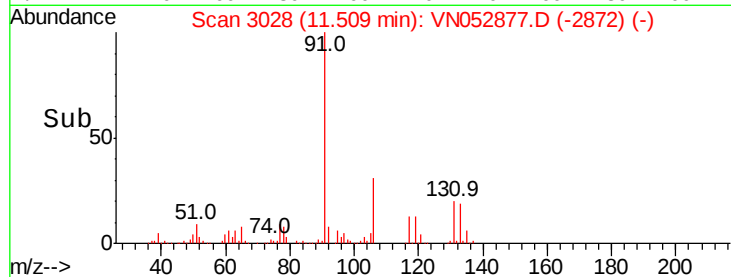
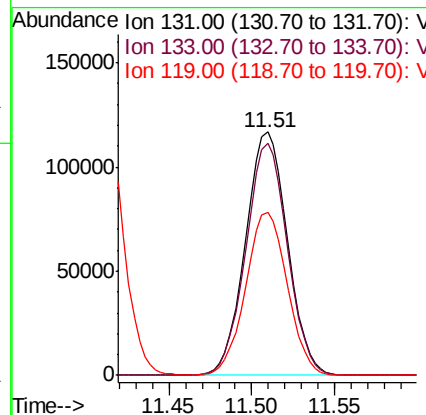
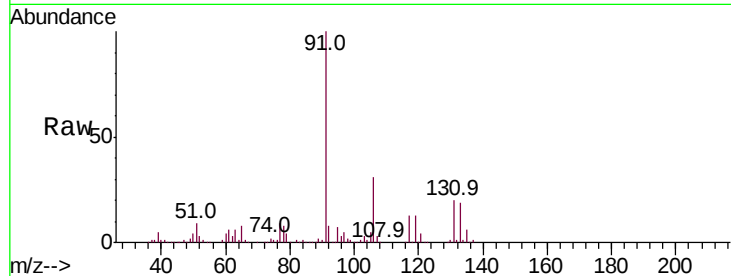
ClientSampleId :

VSTDCCC020

Tot Ion:	131	Resp:	206230
Ion Ratio	Lower	Upper	
131	100		
133	94.6	0.0	193.4
119	66.7	0.0	133.0

Manual Integrations
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#66

Ethyl Benzene

Concen: 20.843 ug/l

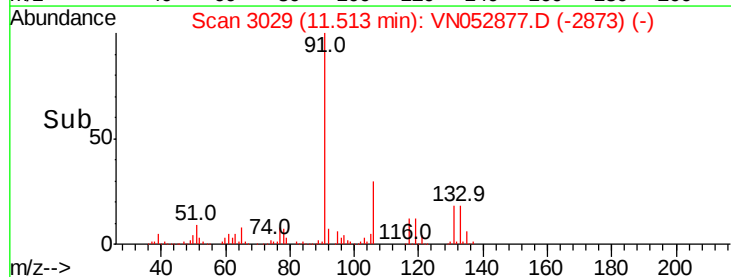
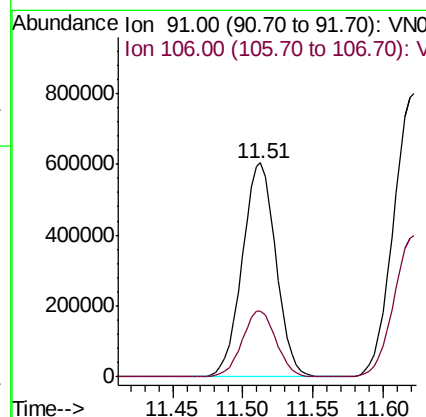
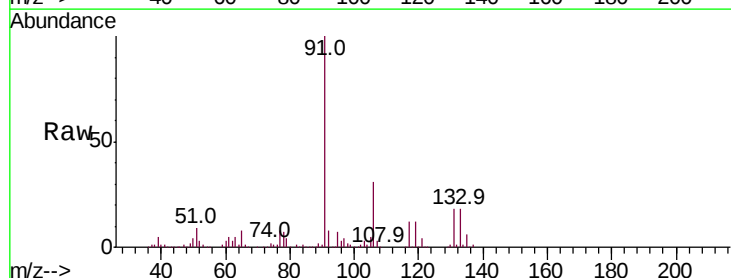
RT: 11.51 min Scan# 3029

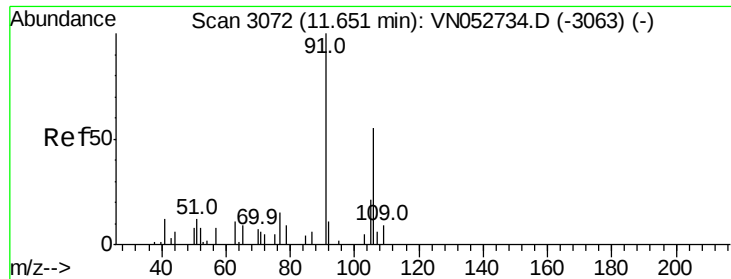
Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion:	91	Resp:	1007919
Ion Ratio	Lower	Upper	
91	100		
106	31.0	24.3	36.5





#67

m/p-Xylenes

Concen: 42.608 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:106 Resp: 767605

Ion Ratio Lower Upper

106 100

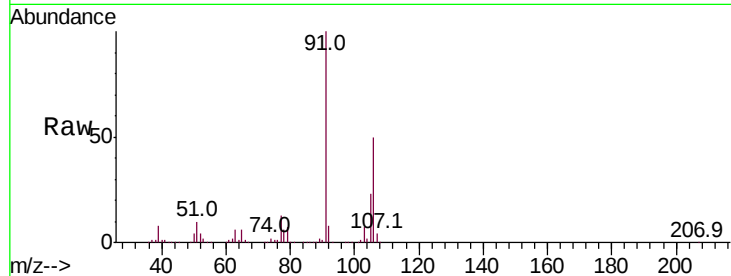
91 201.6 163.9 245.9

Manual Integrations

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

800000

600000

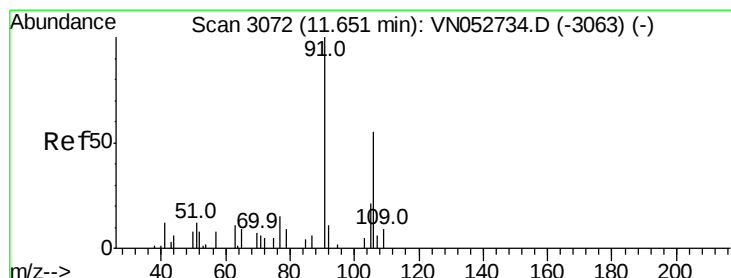
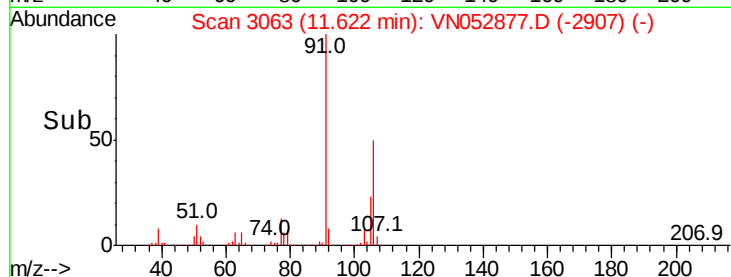
400000

200000

0

11.60 11.70

Time-->



#68

o-Xylene

Concen: 21.567 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN052877.D

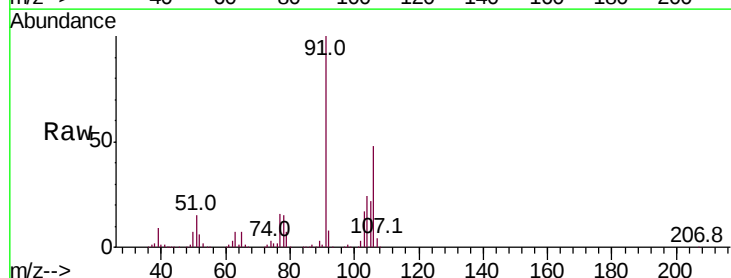
Acq: 14 Dec 2018 9:45

Tgt Ion:106 Resp: 377126

Ion Ratio Lower Upper

106 100

91 212.8 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

500000

400000

300000

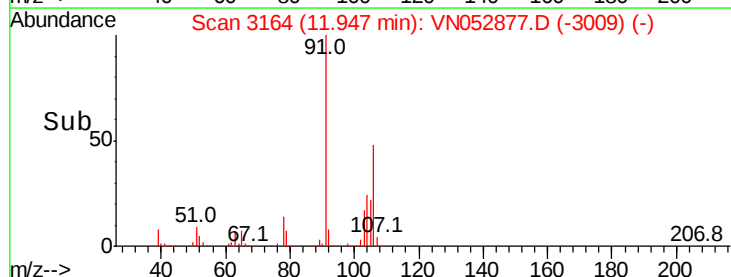
200000

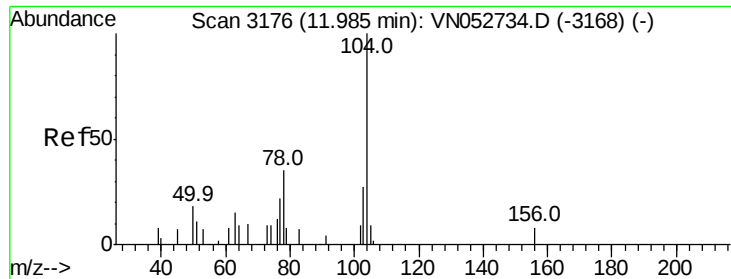
100000

0

11.90 11.95 12.00

Time-->





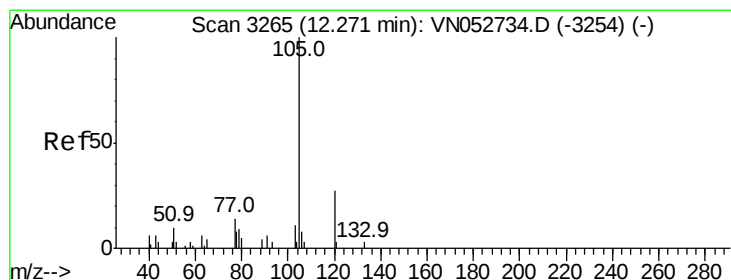
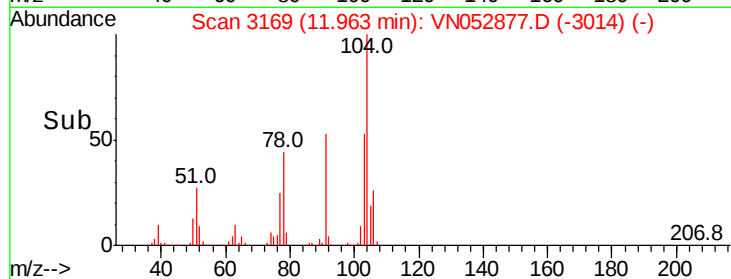
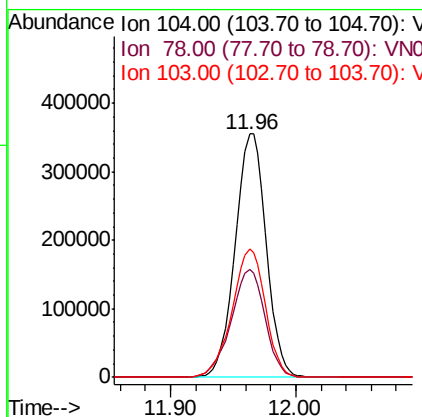
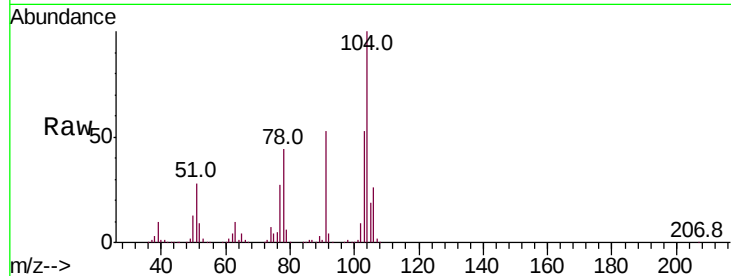
#69
Stvrene
Concen: 21.653 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.3	39.3	58.9
103	56.5	44.6	66.8

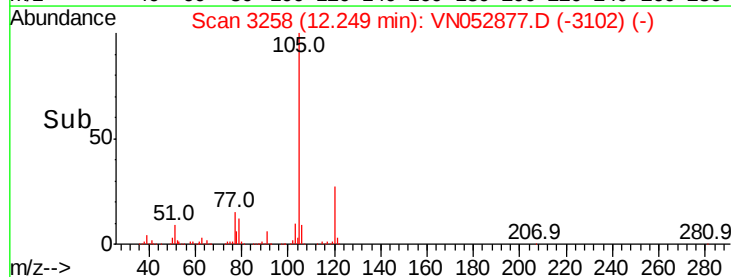
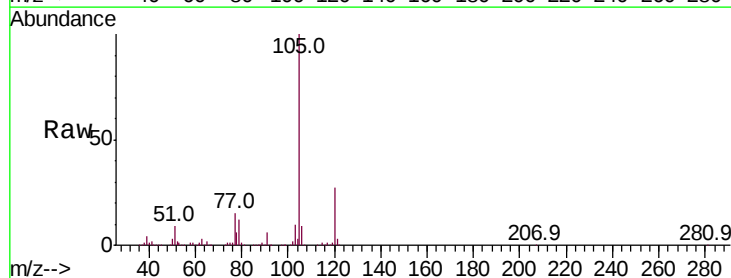
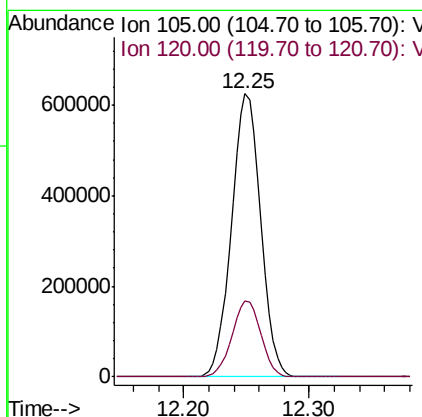
Manual Integrations
APPROVED

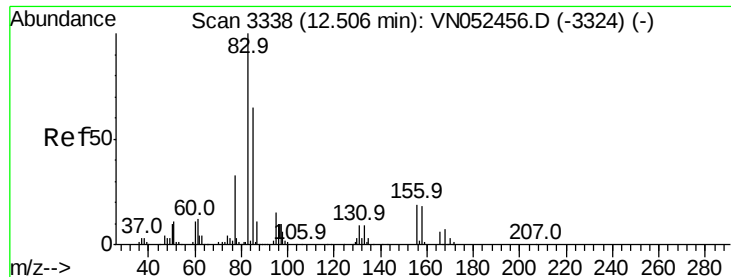
MMDadoda
12/17/2018 3:05:26 PM



#70
Isopropylbenzene
Concen: 21.651 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	18.6	34.6





#71

1,1,2,2-Tetrachloroethane

Concen: 21.165 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 83 Resp: 214200
Ion Ratio Lower Upper

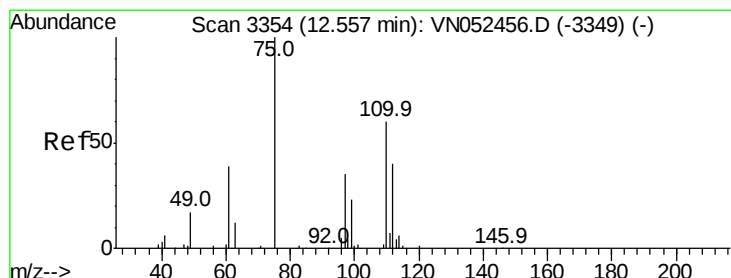
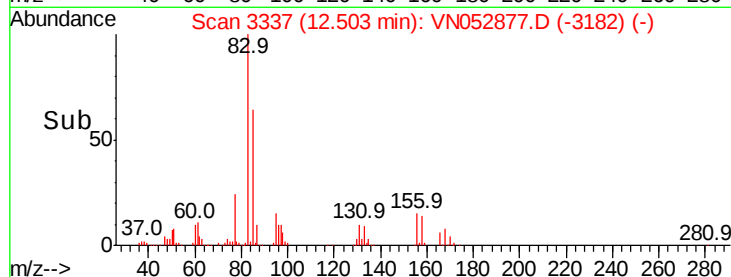
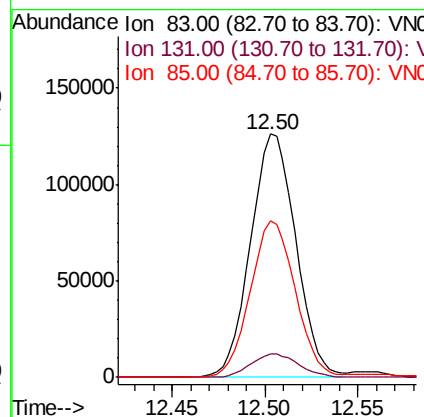
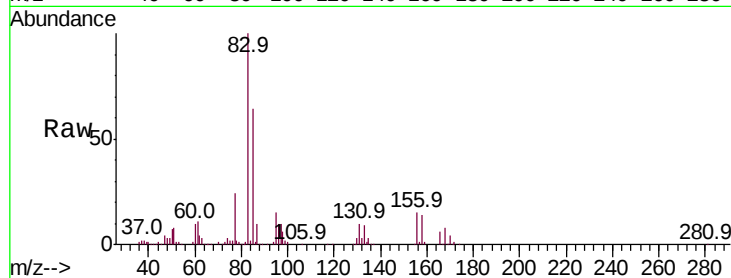
83 100

131 10.1 4.9 14.6

85 63.9 32.2 96.6

Manual Integrations
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#72

1,2,3-Trichloropropane

Concen: 23.385 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

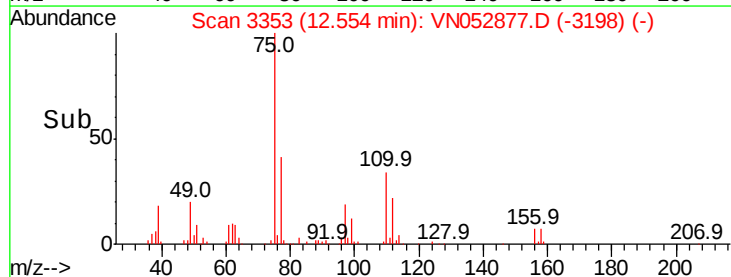
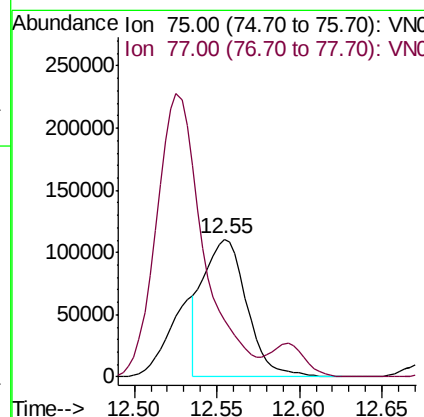
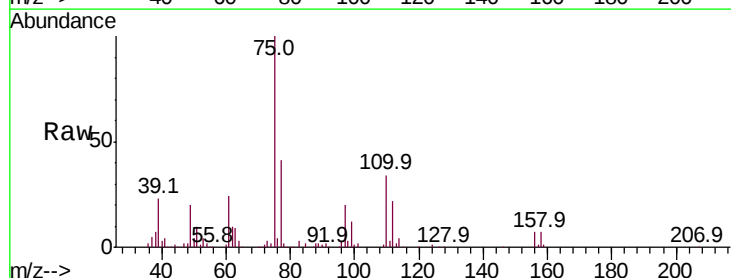
Lab File: VN052877.D

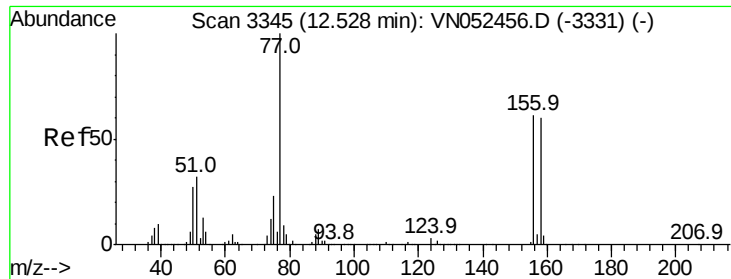
Acq: 14 Dec 2018 9:45

Tgt Ion: 75 Resp: 203166
Ion Ratio Lower Upper

75 100

77 221.7 0.0 514.8





#73

Bromobenzene

Concen: 22.649 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

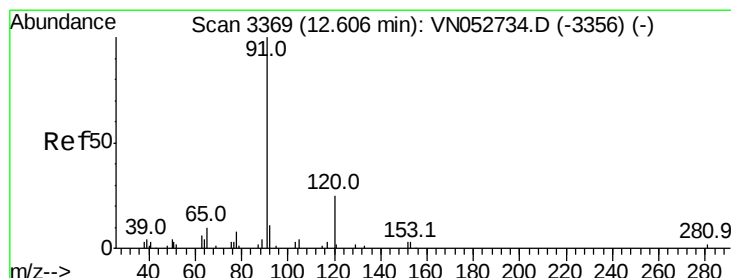
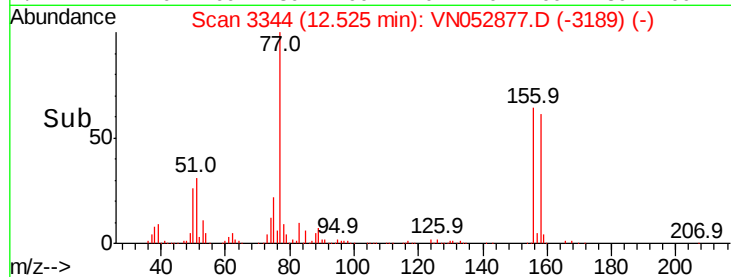
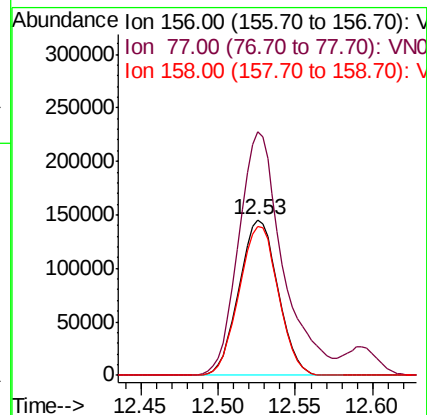
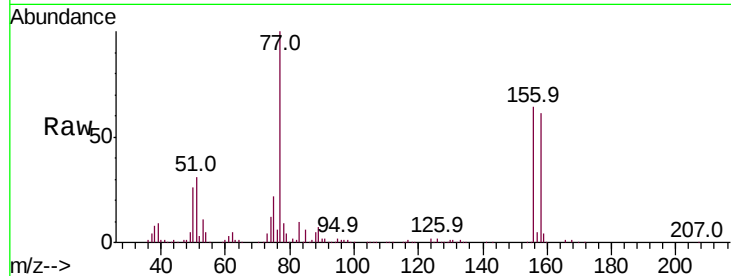
ClientSampleId :

VSTDCCC020

Tot Ion:	156	Resp:	254854
Ion Ratio	Lower	Upper	
156	100		
77	176.7	0.0	382.6
158	96.4	0.0	196.8

Manual Integrations
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#74

n-propylbenzene

Concen: 21.157 ug/l

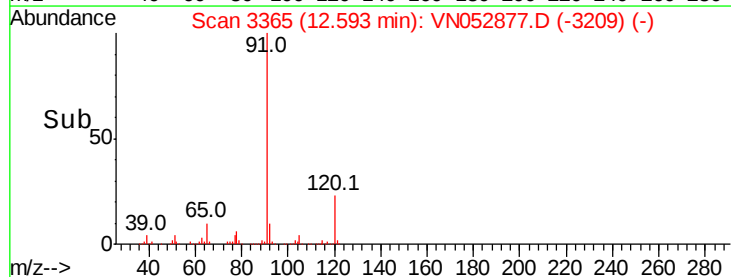
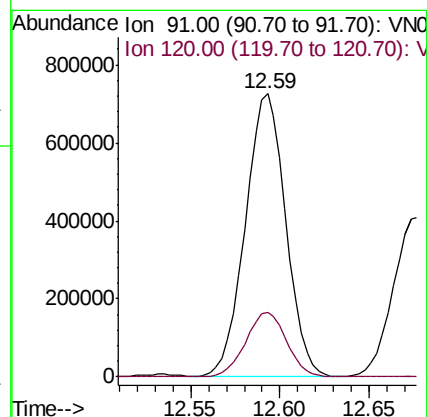
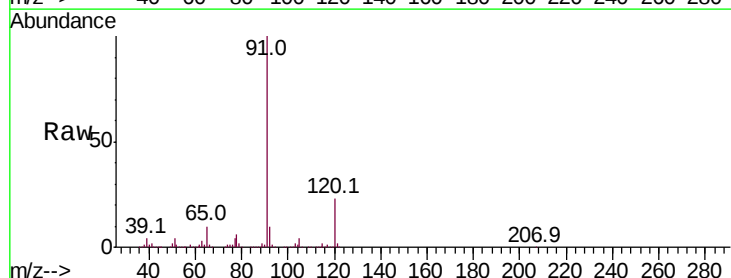
RT: 12.59 min Scan# 3365

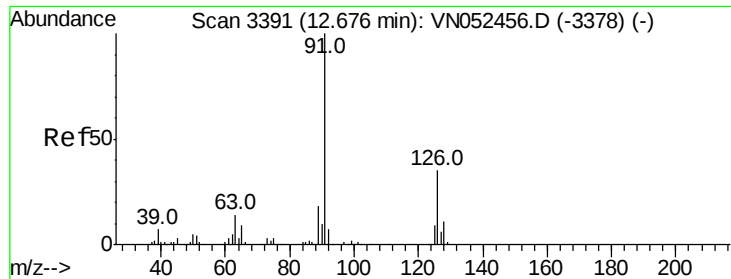
Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion:	91	Resp:	1146855
Ion Ratio	Lower	Upper	
91	100		
120	23.2	0.0	44.6





#75

2-Chlorotoluene

Concen: 21.530 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 91 Resp: 677448

Ion Ratio Lower Upper

91 100

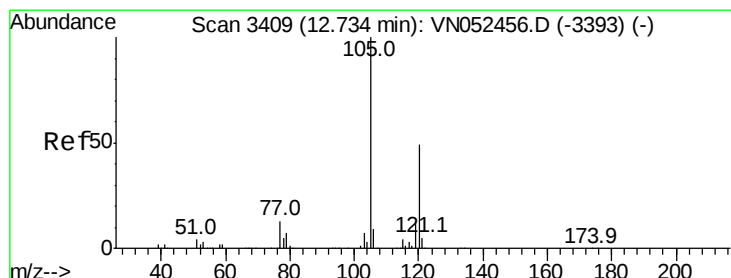
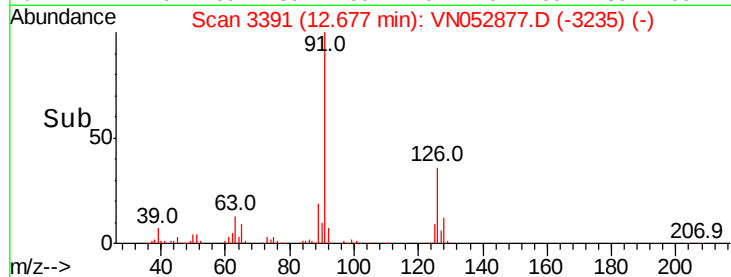
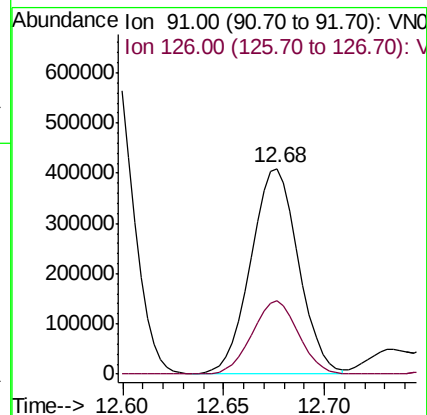
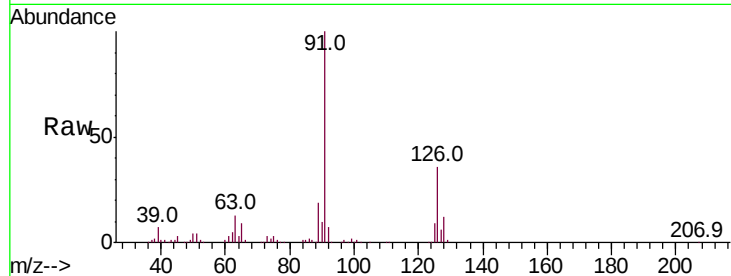
126 34.8 0.0 68.4

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#76

1,3,5-Trimethylbenzene

Concen: 21.972 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052877.D

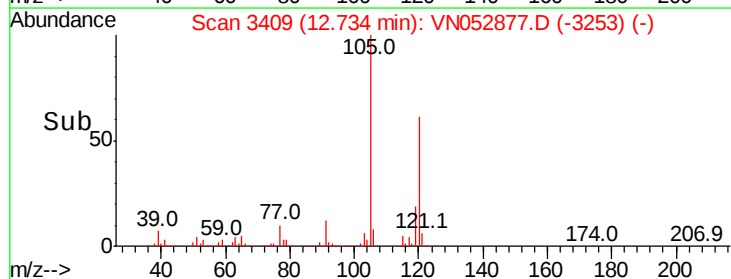
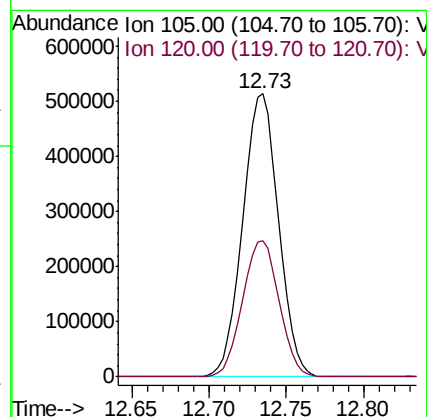
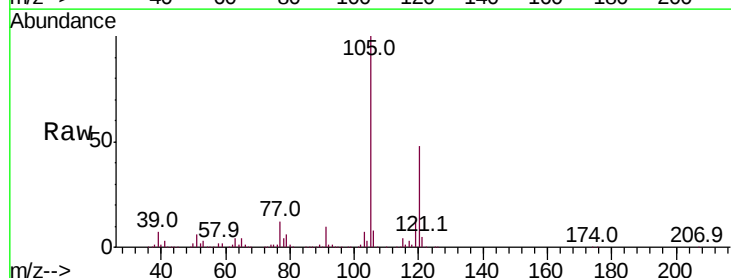
Acq: 14 Dec 2018 9:45

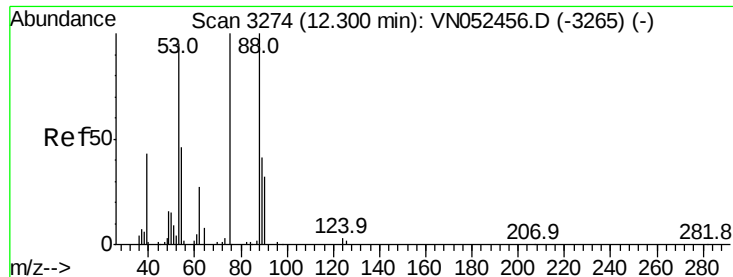
Tgt Ion: 105 Resp: 825669

Ion Ratio Lower Upper

105 100

120 49.2 0.0 97.4





#77

t-1,4-Dichloro-2-butene

Concen: 21.426 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

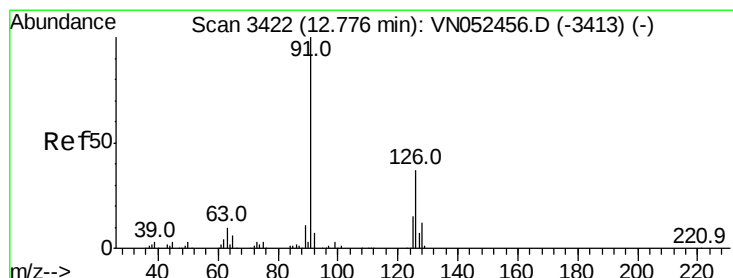
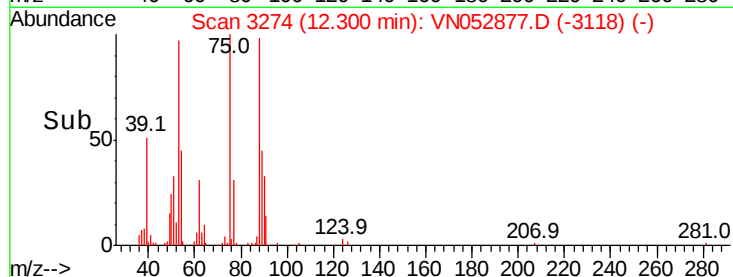
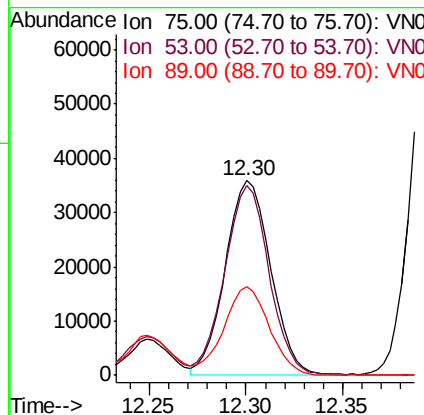
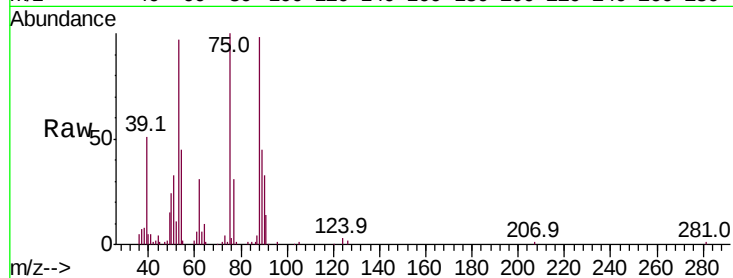
ClientSampleId :

VSTDCCC020

Tot Ion:	75	Resp:	58802
Ion	Ratio	Lower	Upper
75	100		
53	97.4	48.5	145.6
89	45.5	21.7	65.1

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#78

4-Chlorotoluene

Concen: 21.696 ug/l

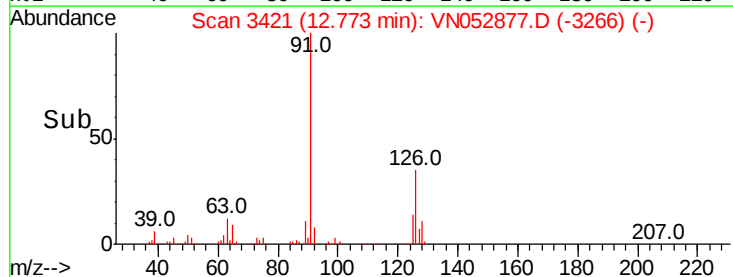
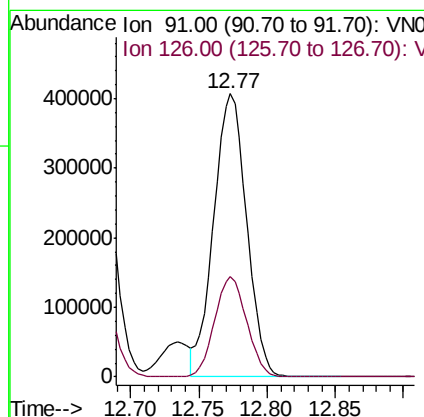
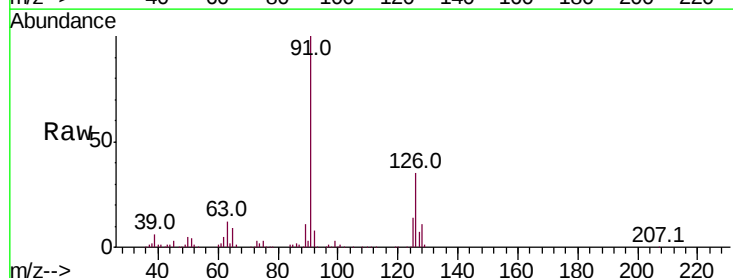
RT: 12.77 min Scan# 3421

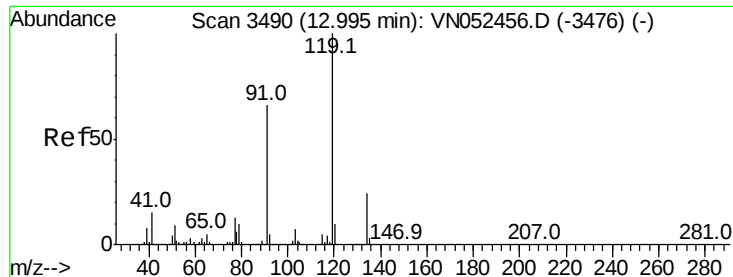
Delta R.T. -0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion:	91	Resp:	681718
Ion	Ratio	Lower	Upper
91	100		
126	34.4	0.0	68.2





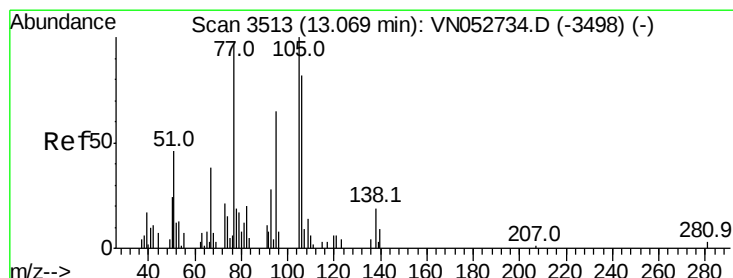
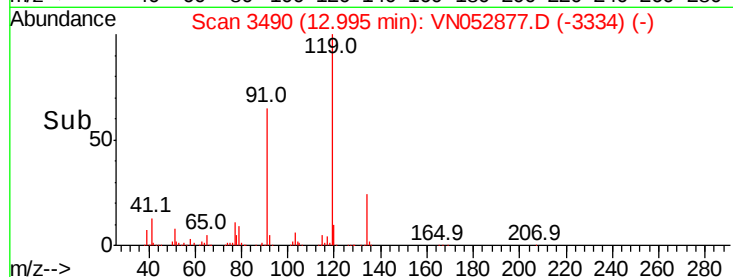
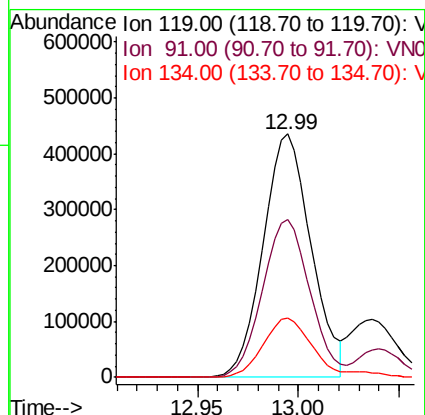
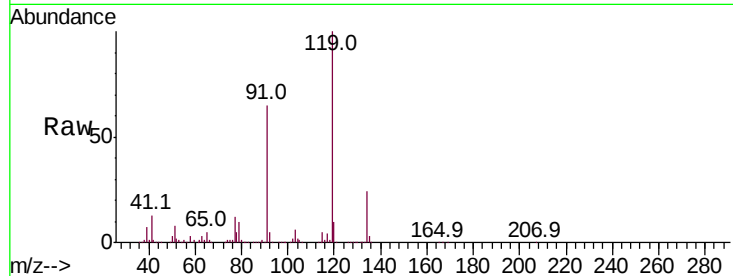
#79
tert-butylbenzene
Concen: 22.028 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	720899		
91	64.5	0.0	129.8	
134	24.7	0.0	52.2	

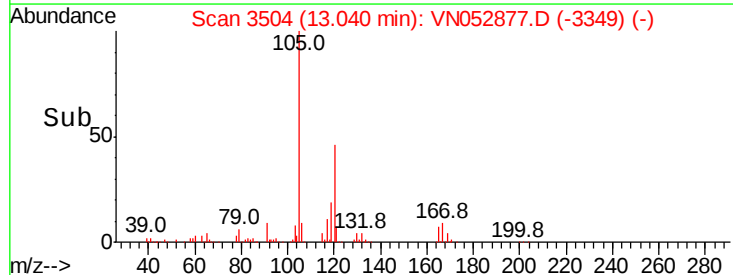
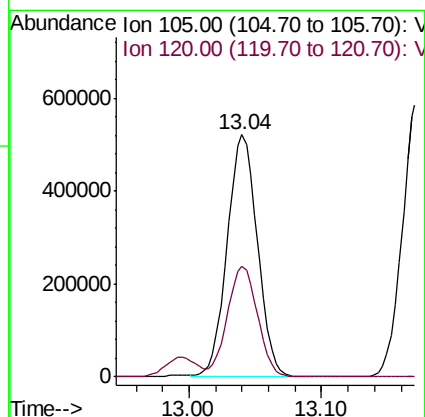
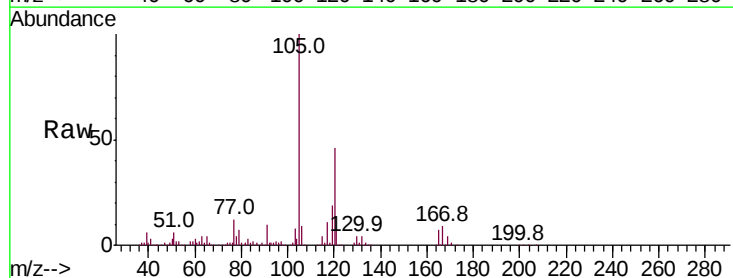
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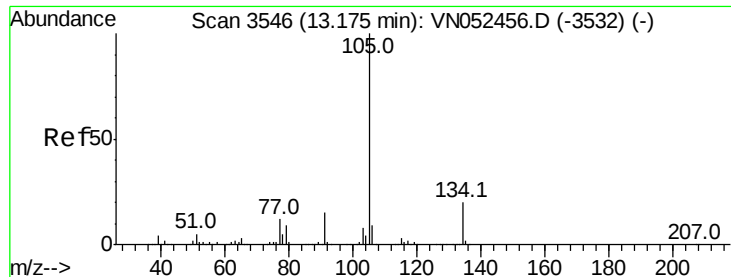
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 21.966 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	825942		
120	45.9	0.0	91.0	





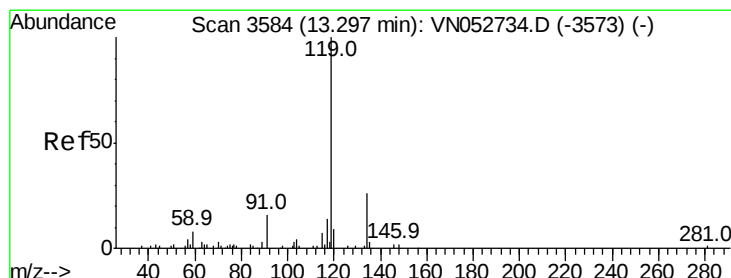
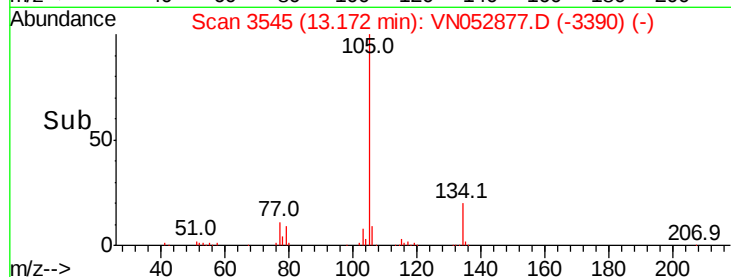
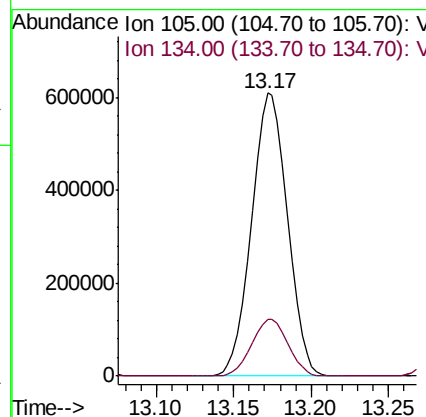
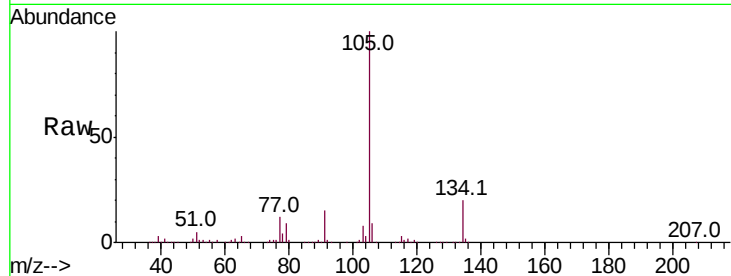
#81
 sec-Butylbenzene
 Concen: 21.641 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
134	20.4	0.0	40.4	

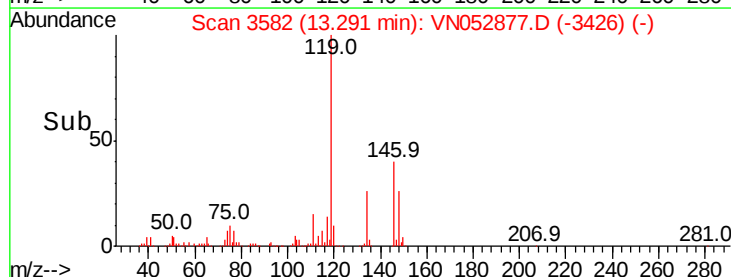
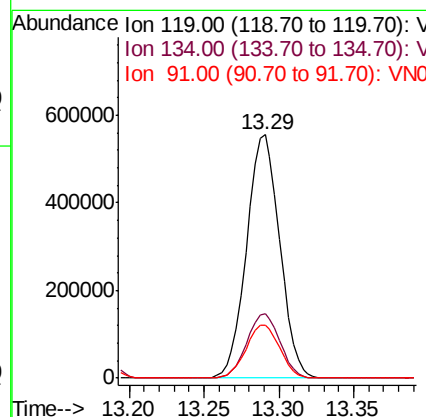
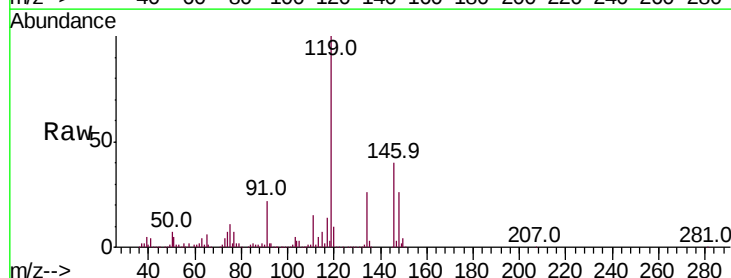
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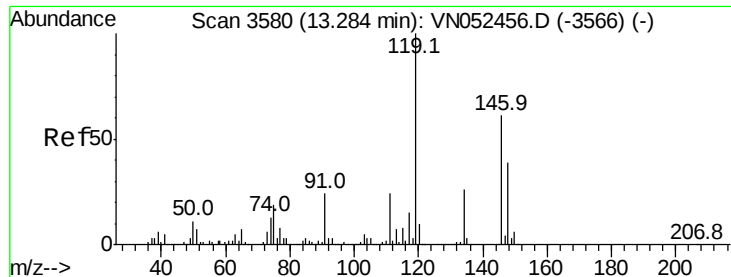
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#82
 p-Isopropyltoluene
 Concen: 22.029 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Resp	Lower	Upper
119	100			
134	26.4	0.0	52.6	
91	22.3	0.0	46.2	





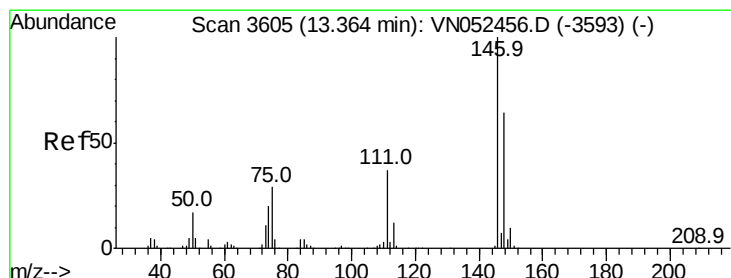
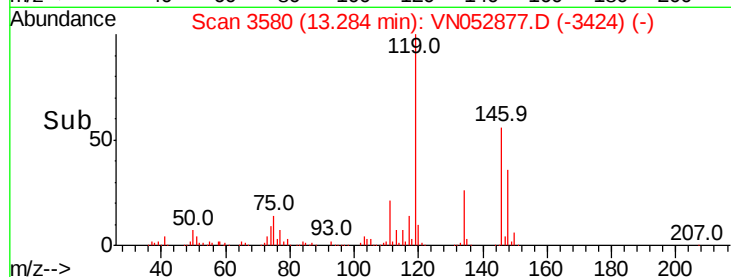
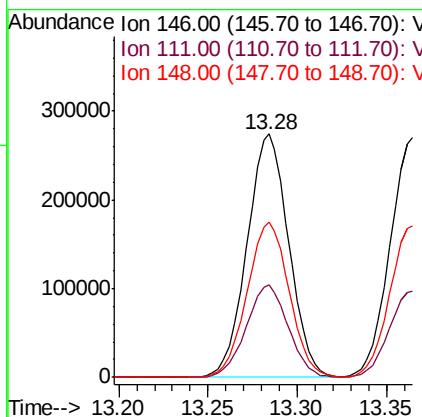
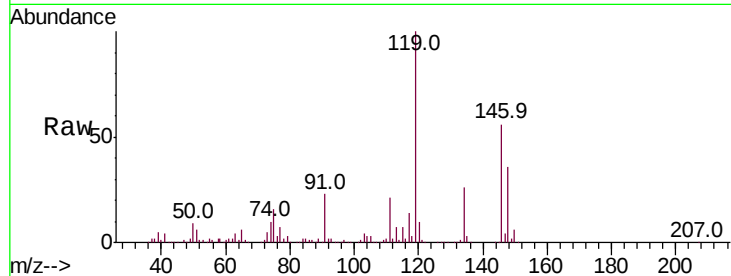
#83
 1,3-Dichlorobenzene
 Concen: 22.632 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.7	59.0
148	64.4	32.3	96.8

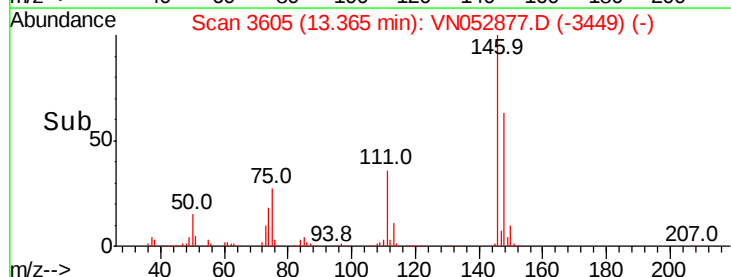
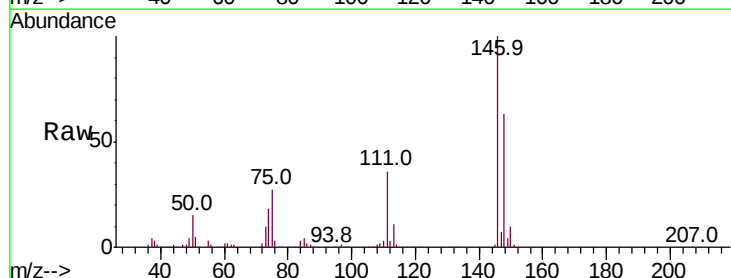
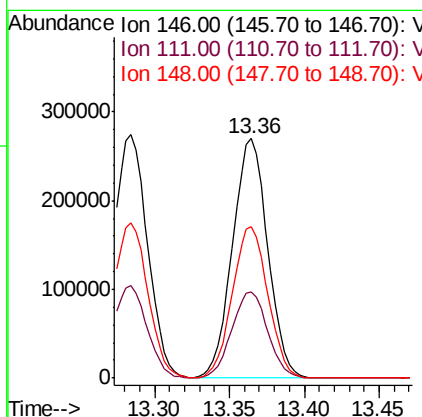
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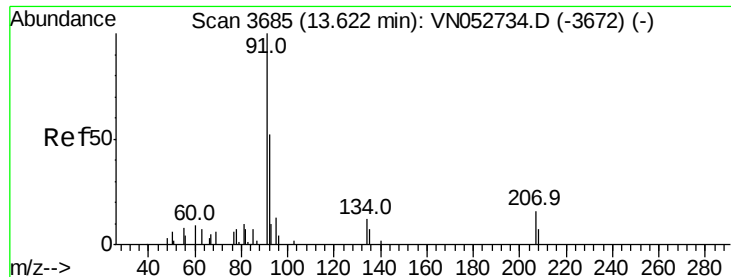
MMDadoda
 12/17/2018 3:05:26 PM



#84
 1,4-Dichlorobenzene
 Concen: 23.114 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.8	56.3
148	64.1	32.5	97.4





#85

n-Butylbenzene

Concen: 21.044 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Instrument :

MSVOA_N

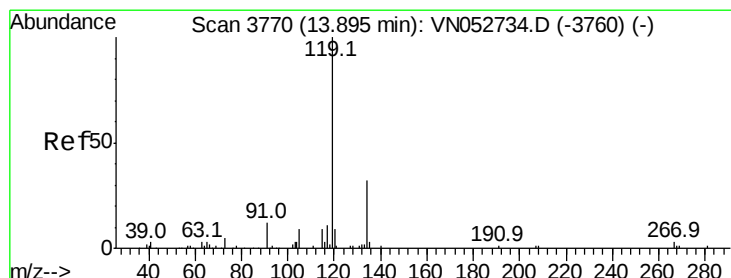
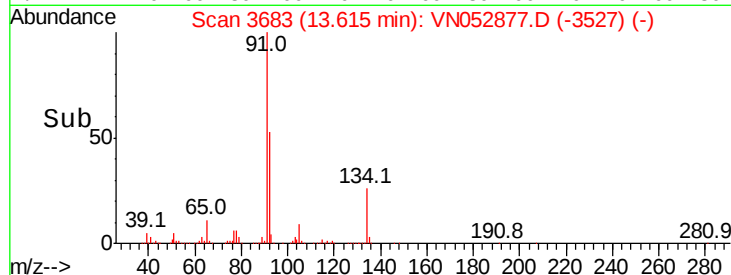
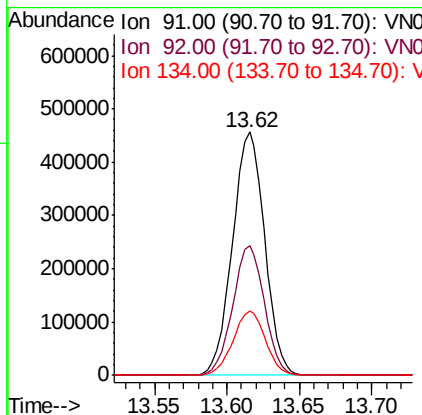
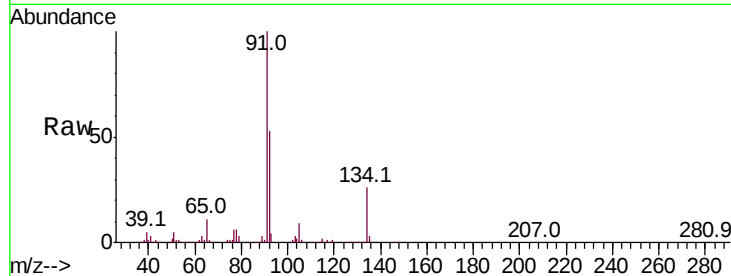
ClientSampleId :

VSTDCCC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		701625		
92	52.4	0.0	104.2		
134	26.6	0.0	50.6		

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#86

Hexachloroethane

Concen: 20.604 ug/l

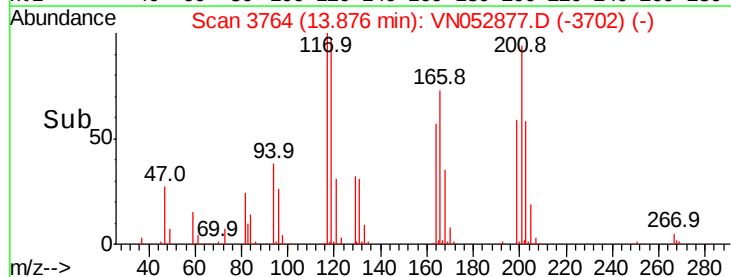
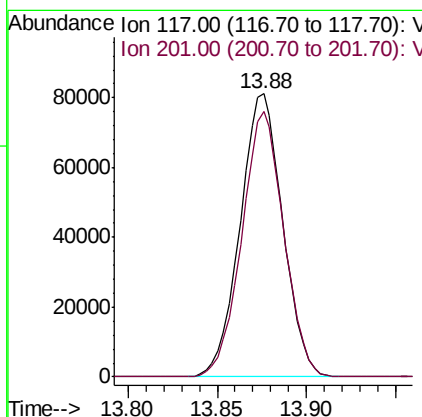
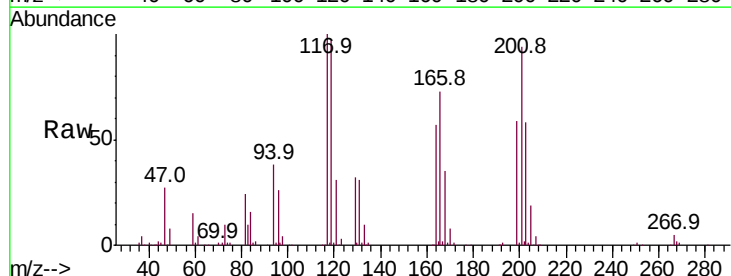
RT: 13.88 min Scan# 3764

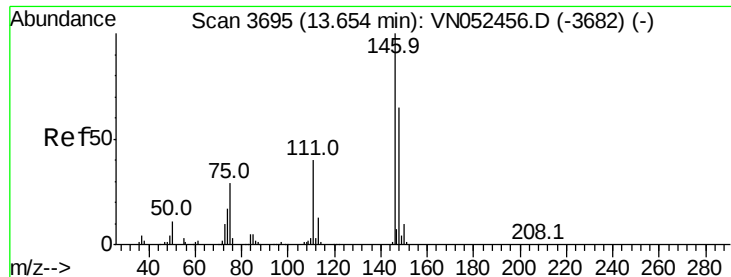
Delta R.T. 0.00 min

Lab File: VN052877.D

Acq: 14 Dec 2018 9:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		135503		
201	92.2	43.8	131.3		





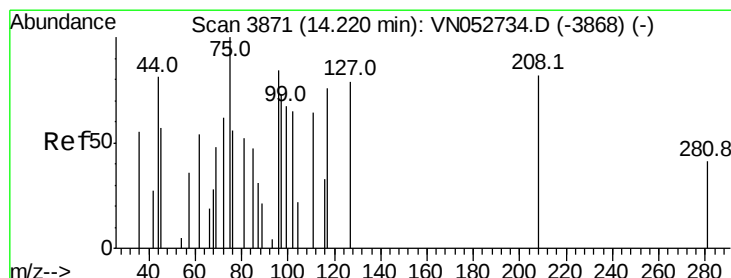
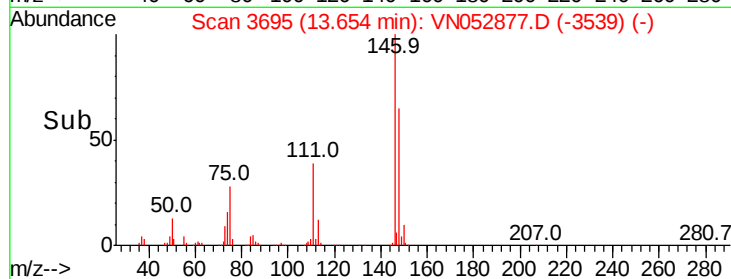
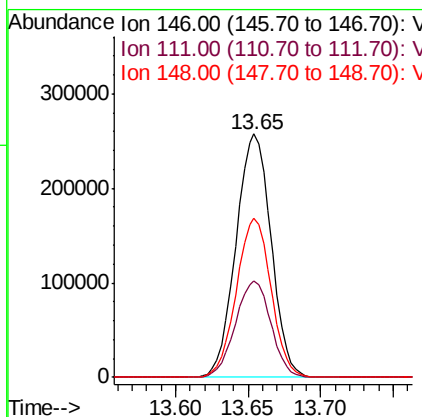
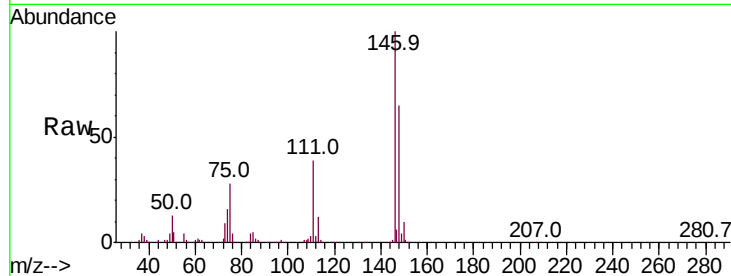
#87
 1,2-Dichlorobenzene
 Concen: 23.029 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	433694		
111	39.8	20.3	60.8	
148	64.5	32.1	96.5	

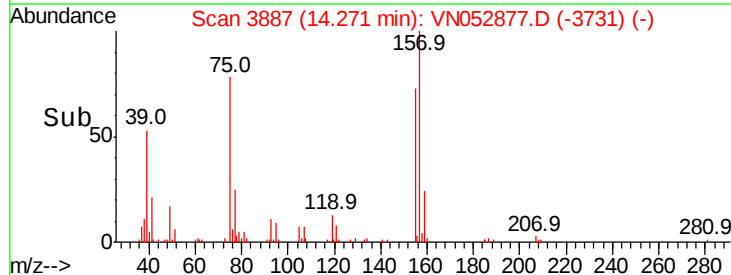
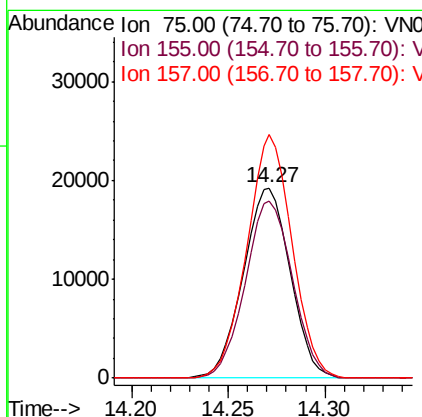
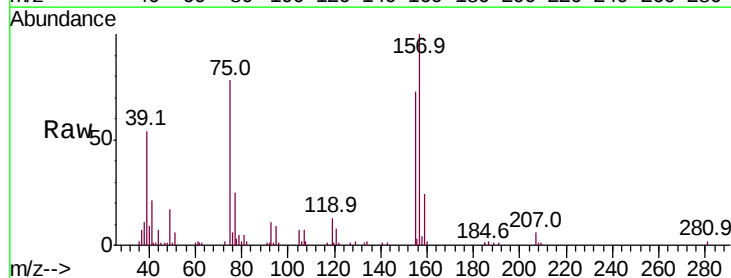
Manual Integrations
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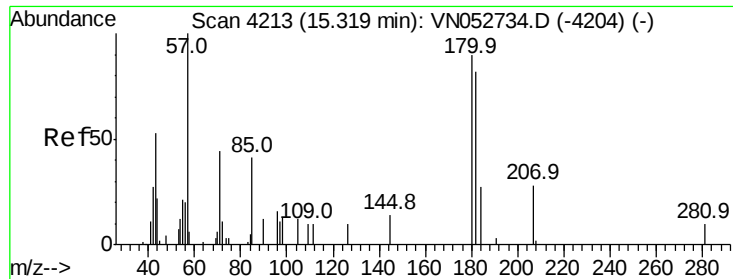
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 22.894 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	32455		
155	93.5	72.2	108.2	
157	123.3	94.2	141.2	





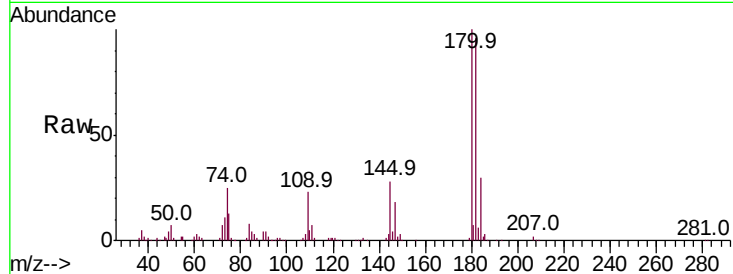
#89
 1,2,4-Trichlorobenzene
 Concen: 25.640 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.6	114.8
145	28.0	23.6	35.4

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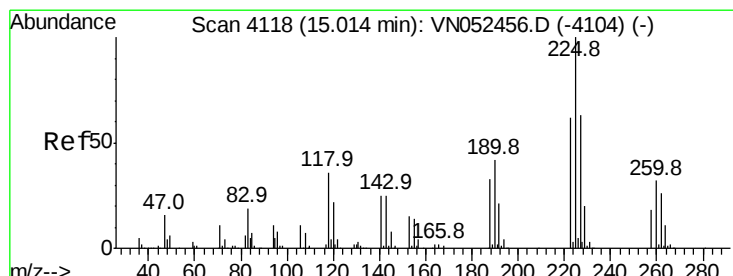
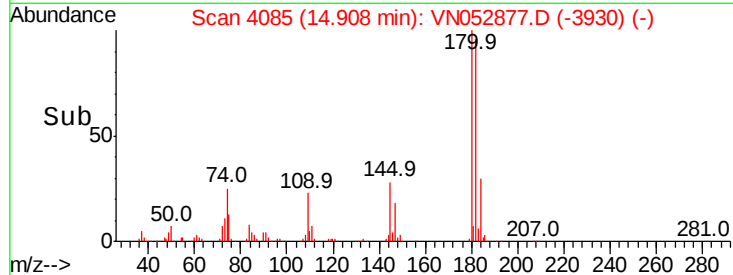
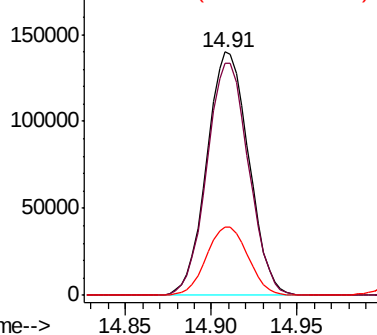


Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
 Hexachlorobutadiene
 Concen: 23.736 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052877.D
 Acq: 14 Dec 2018 9:45

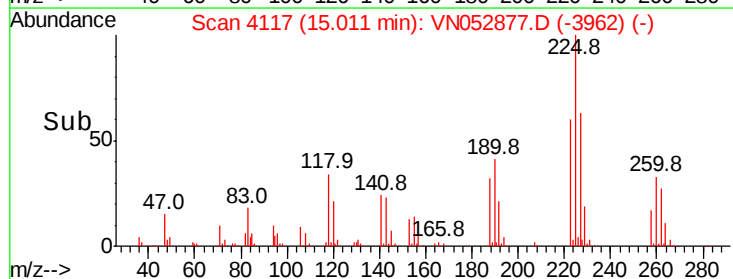
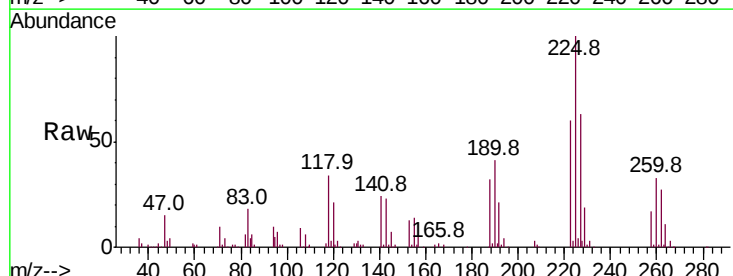
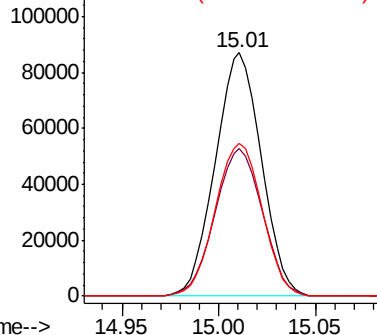
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.5	0.0	125.6
227	63.8	0.0	127.8

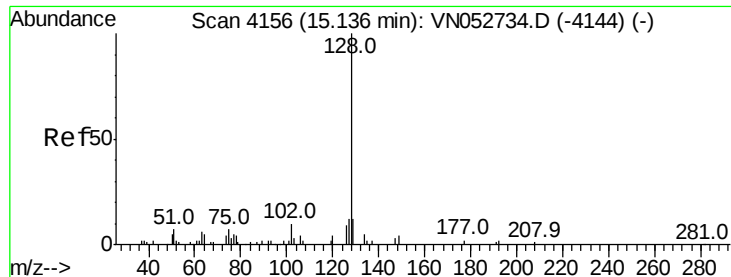
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





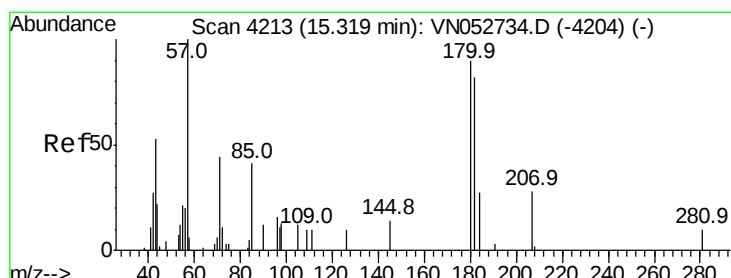
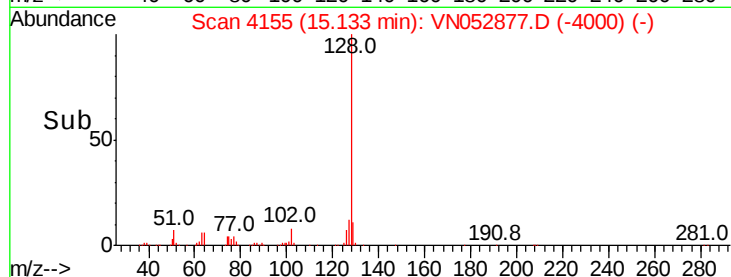
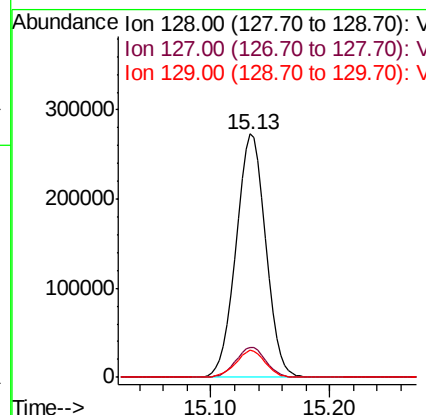
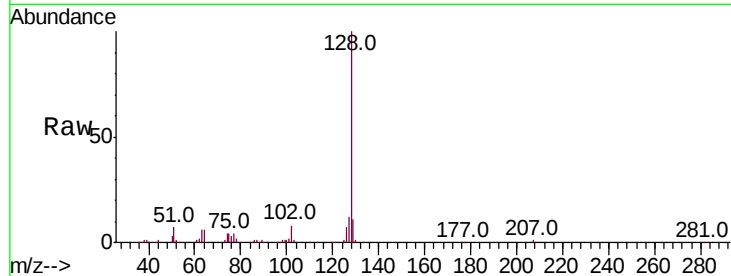
#91
Naphthalene
Concen: 25.165 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.9	14.9
129	11.0	8.5	12.7

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#92
1,2,3-Trichlorobenzene
Concen: 25.020 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052877.D
Acq: 14 Dec 2018 9:45

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	0.0	196.2
145	30.3	0.0	62.2

