

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120318\
 Data File : VN052628.D
 Acq On : 3 Dec 2018 13:34
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 12/4/2018 2:57:27 PM

Quant Time: Dec 04 00:39:42 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	156933	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	925913	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	808805	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	325911	30.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.60%
60) 4-Bromofluorobenzene	12.40	95	369223	29.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.53%
63) Toluene-d8	10.09	98	1112239	29.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	171362	19.173	ug/l 99
3) Chloromethane	2.06	50	226981	19.149	ug/l 100
4) Vinyl Chloride	2.19	62	234501	19.601	ug/l 97
5) Bromomethane	2.58	94	141604	20.758	ug/l 99
6) Chloroethane	2.71	64	141401	19.875	ug/l 98
7) Trichlorofluoromethane	3.02	101	295657	20.024	ug/l 97
8) Diethyl Ether	3.41	74	112875	20.704	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	186553	19.931	ug/l 98
10) 1,1-Dichloroethene	3.74	96	177449	20.164	ug/l 97
11) Methyl Iodide	3.96	142	264593	21.655	ug/l 99
12) Methyl Acetate	4.33	43	168030	22.472	ug/l 98
13) Acrolein	3.61	56	74991	85.378	ug/l 99
14) Acrylonitrile	4.99	53	341801	107.282	ug/l 98
15) Acetone	3.82	58	98825	119.773	ug/l 99
16) Carbon Disulfide	4.06	76	520910	18.696	ug/l 99
17) Allyl chloride	4.33	41	279052	18.182	ug/l 95
18) Methylene Chloride	4.55	84	208008	20.414	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	190623	20.128	ug/l 95
20) Diisopropyl ether	5.95	45	646453	20.043	ug/l 99
21) 1,1-Dichloroethane	5.85	63	372075	20.240	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	221783	20.433	ug/l 99
23) tert-Butyl Alcohol	4.78	59	57810	121.975	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	498293	21.583	ug/l 97
25) Chloroform	7.37	83	362520	20.442	ug/l 100
26) Cyclohexane	7.66	56	332404	19.172	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	277459	19.623	ug/l 100
30) 2-Butanone	6.84	43	420016	111.011	ug/l 99
31) 2,2-Dichloropropane	6.83	77	264357	20.308	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	296676	20.165	ug/l 98
33) Carbon Tetrachloride	7.78	117	255439	19.843	ug/l 99
34) Benzene	8.05	78	845210	19.882	ug/l 97
35) Methacrylonitrile	7.17	41	81680	17.400	ug/l 97
36) 1,2-Dichloroethane	8.13	62	259863	20.172	ug/l 99
37) Trichloroethene	8.84	130	214190	19.869	ug/l 100
38) Methylcyclohexane	9.08	83	332449	18.993	ug/l 97
39) 1,2-Dichloropropane	9.12	63	219385	19.252	ug/l 96
40) Dibromomethane	9.21	93	128153	20.811	ug/l 97

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	269045	19.775	ug/l	99
42) Vinyl Acetate	5.90	43	2036223	99.467	ug/l	98
43) Ethyl Acetate	6.93	43	167850	20.863	ug/l #	65
44) Isopropyl Acetate	8.17	43	341289	24.188	ug/l	98
45) 1,4-Dioxane	9.20	88	36807	476.836	ug/l	97
46) Methyl methacrylate	9.20	41	153737	20.985	ug/l	99
47) n-amyl Acetate	12.07	43	239075	20.436	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	267057	20.244	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	317238	19.738	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	182921	20.955	ug/l	99
51) Ethyl methacrylate	10.43	69	233758	21.322	ug/l	96
52) 1,3-Dichloropropane	10.71	76	317184	20.414	ug/l	99
53) Dibromochloromethane	10.90	129	200493	20.862	ug/l	97
54) 1,2-Dibromoethane	11.01	107	179591	21.055	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	675785	105.306	ug/l	99
56) Bromoform	12.13	173	134039	21.338	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	858673	109.509	ug/l	99
59) 2-Hexanone	10.75	43	596700	111.400	ug/l	98
61) Tetrachloroethene	10.63	164	211290	21.211	ug/l	97
62) Toluene	10.16	91	902671	20.245	ug/l	100
64) Chlorobenzene	11.44	112	544422	20.005	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	192399	20.367	ug/l	100
66) Ethyl Benzene	11.51	91	956711	19.909	ug/l	99
67) m/p-Xylenes	11.62	106	722085	40.333	ug/l	100
68) o-Xylene	11.95	106	356628	20.524	ug/l	99
69) Styrene	11.97	104	563686	20.098	ug/l	100
70) Isopropylbenzene	12.25	105	936800	20.262	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	217643	21.640	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	191952m	22.234	ug/l	
73) Bromobenzene	12.53	156	230172	20.584	ug/l	97
74) n-propylbenzene	12.59	91	1055557	19.595	ug/l	99
75) 2-Chlorotoluene	12.68	91	631720	20.203	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	760486	20.365	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	56490	20.713	ug/l	99
78) 4-Chlorotoluene	12.78	91	620745	19.880	ug/l	100
79) tert-butylbenzene	12.99	119	671433	20.646	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	764763	20.467	ug/l	99
81) sec-Butylbenzene	13.17	105	908211	20.050	ug/l	100
82) p-Isopropyltoluene	13.29	119	774339	20.075	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	393890	20.029	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	385238	20.275	ug/l	99
85) n-Butylbenzene	13.62	91	625242	18.871	ug/l	99
86) Hexachloroethane	13.88	117	126689	19.385	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	390457	20.864	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	31463	22.334	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	183009	19.848	ug/l	99
90) Hexachlorobutadiene	15.01	225	122677	20.282	ug/l	98
91) Naphthalene	15.14	128	379062	20.358	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	177979	20.946	ug/l	96

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QLast Update : Tue Nov 27 00:48:33 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

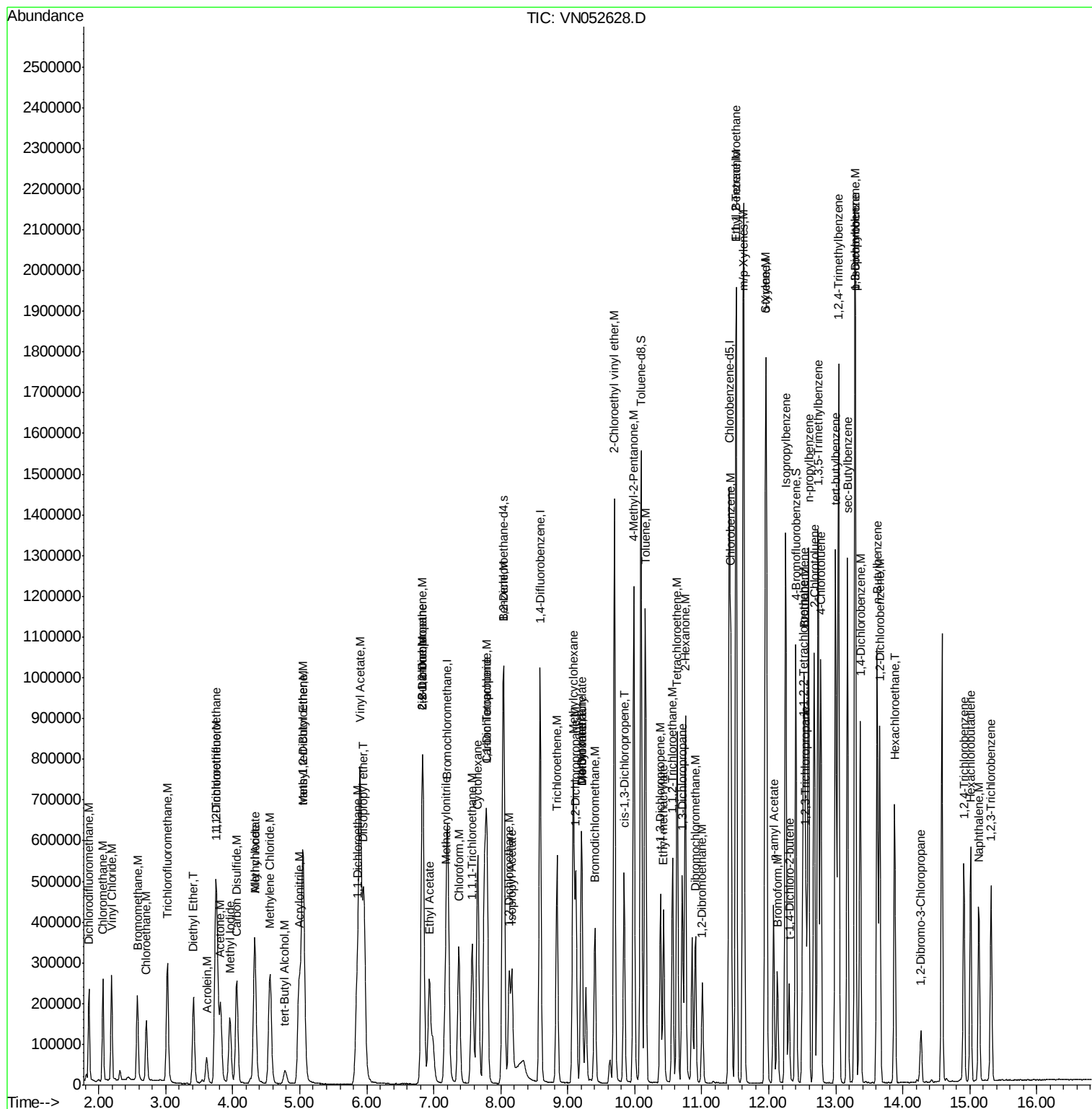
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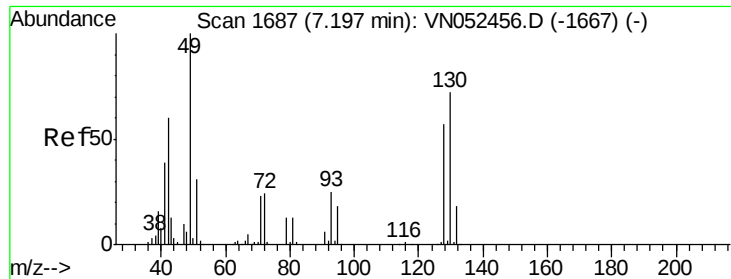
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
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12/4/2018 2:57:27 PM

Quant Time: Dec 04 00:39:42 2018
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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: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

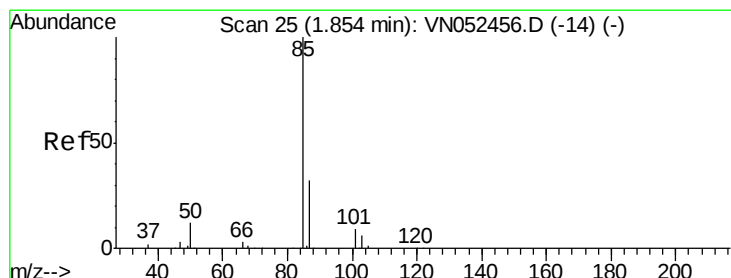
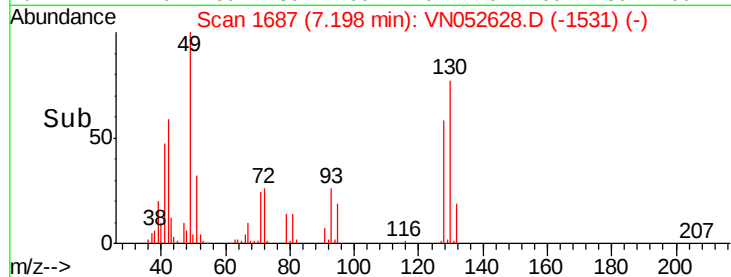
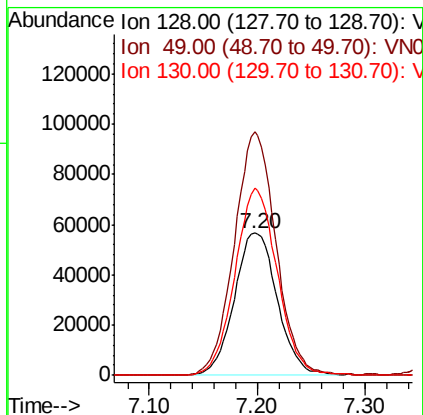
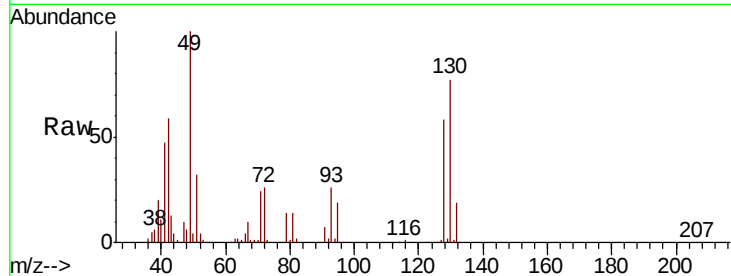
ClientSampleId :

VSTDCCC020

Tot Ion:	128	Resp:	156933
Ion	Ratio	Lower	Upper
128	100		
49	166.3	0.0	431.8
130	129.9	0.0	317.0

Manual Integrations
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12/4/2018 2:57:27 PM



#2

Dichlorodifluoromethane

Concen: 19.173 ug/l

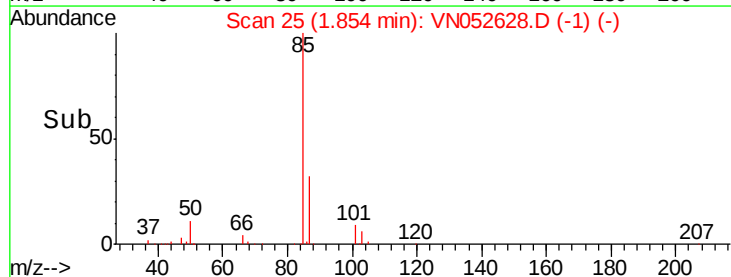
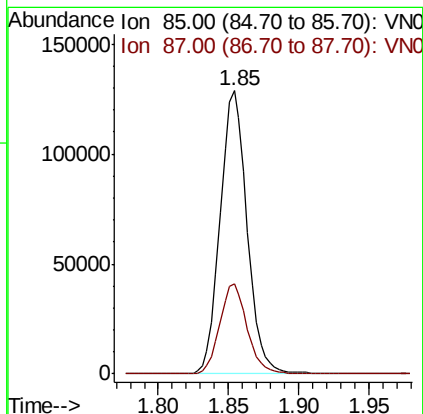
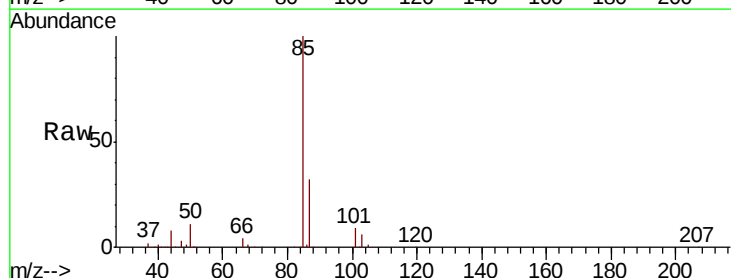
RT: 1.85 min Scan# 25

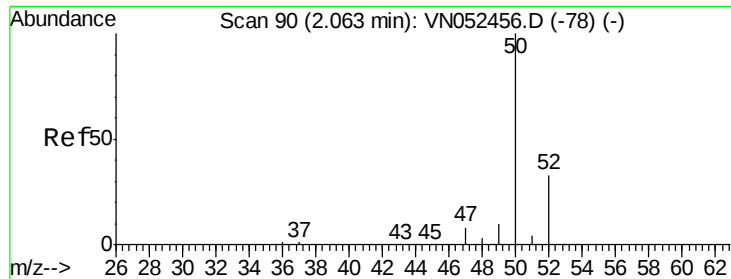
Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Tgt Ion:	85	Resp:	171362
Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.1	48.3





#3

Chloromethane

Concen: 19.149 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 50 Resp: 226981

Ion Ratio Lower Upper

50 100

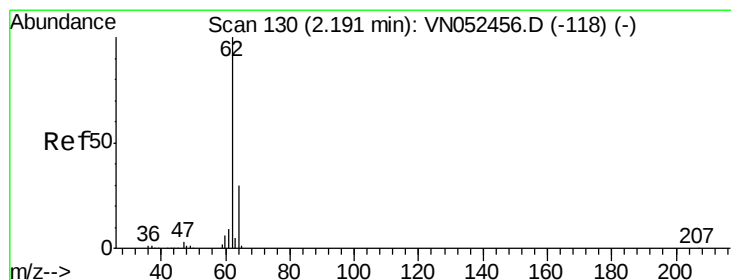
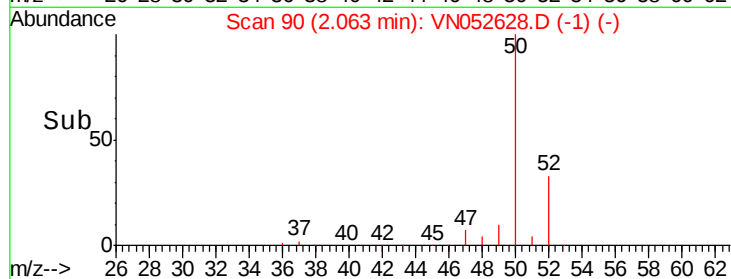
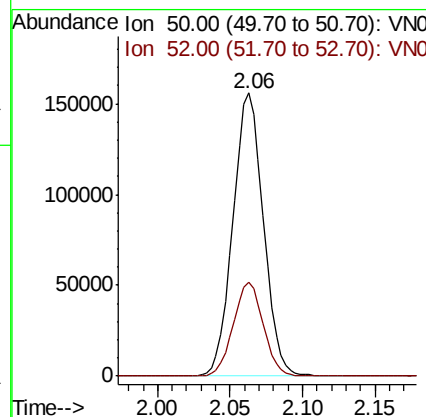
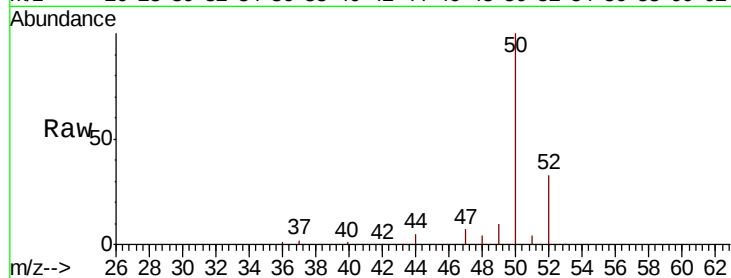
52 33.0 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.601 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052628.D

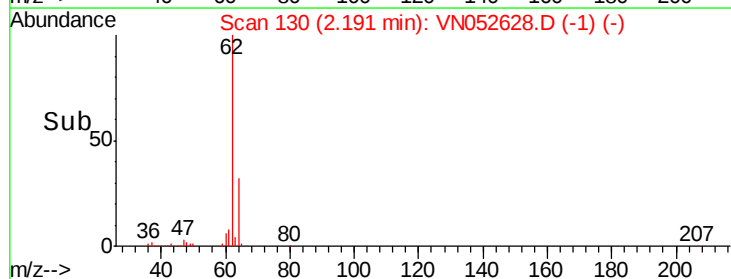
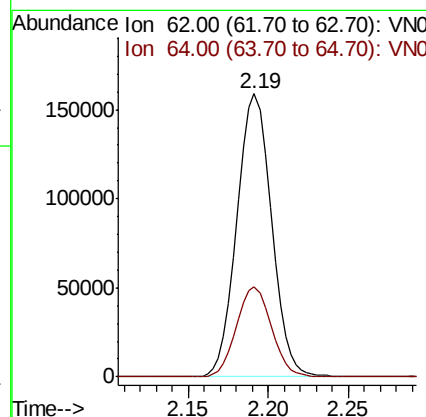
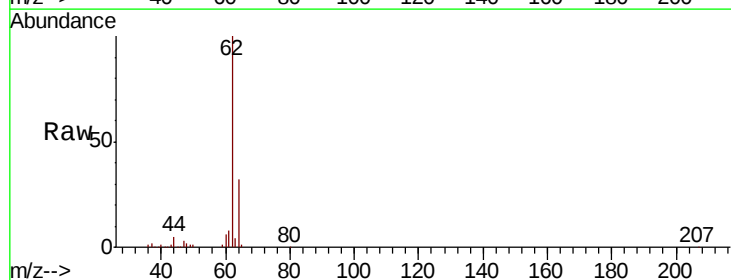
Acq: 3 Dec 2018 13:34

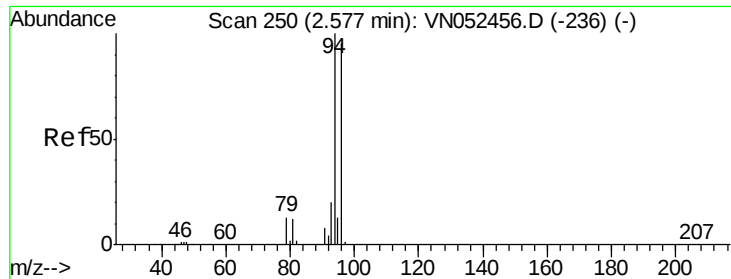
Tgt Ion: 62 Resp: 234501

Ion Ratio Lower Upper

62 100

64 31.7 24.2 36.4





#5

Bromomethane

Concen: 20.758 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 94 Resp: 141604

Ion Ratio Lower Upper

94 100

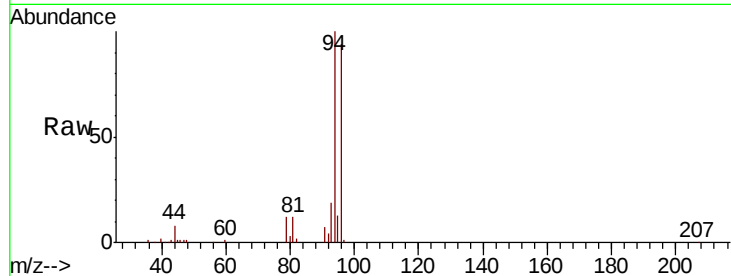
96 94.3 76.2 114.2

Manual Integrations

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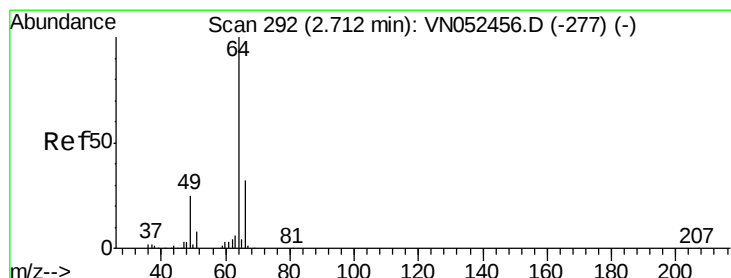
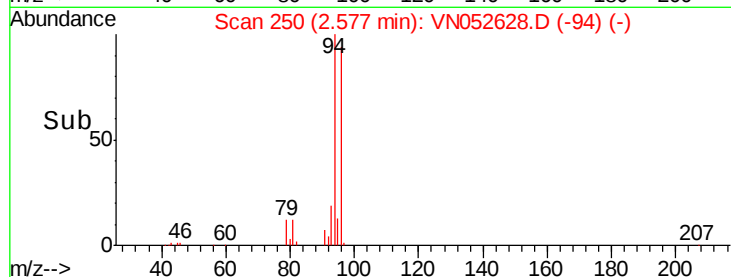
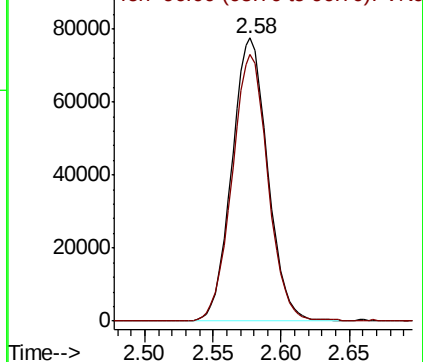
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 19.875 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052628.D

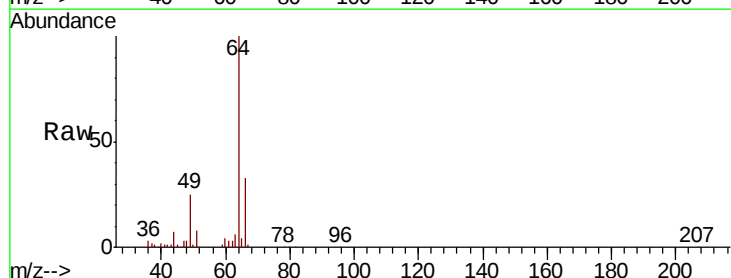
Acq: 3 Dec 2018 13:34

Tgt Ion: 64 Resp: 141401

Ion Ratio Lower Upper

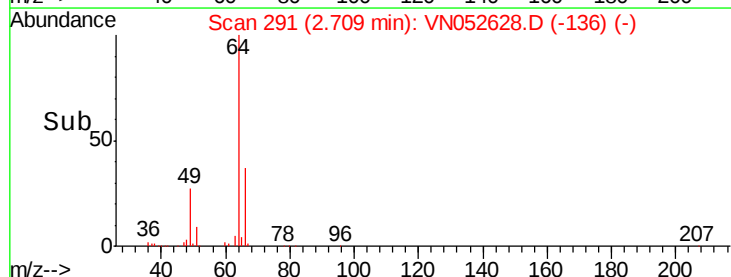
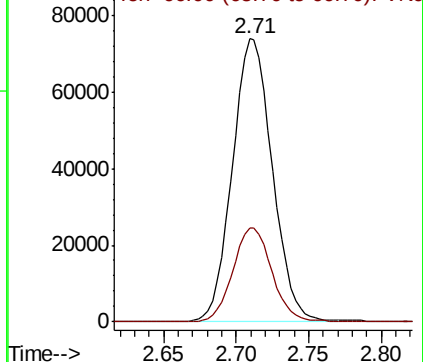
64 100

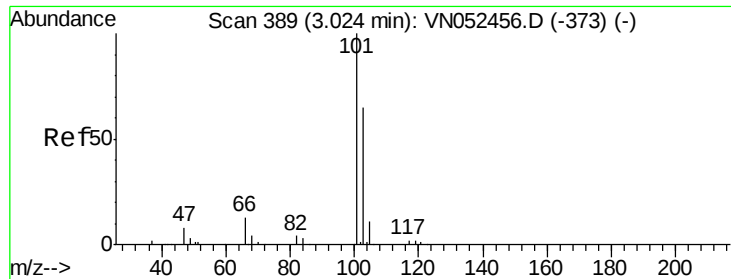
66 33.2 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

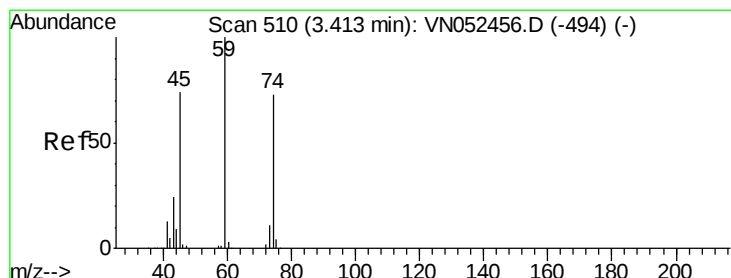
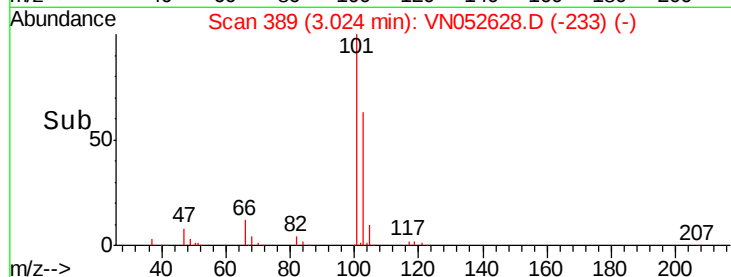
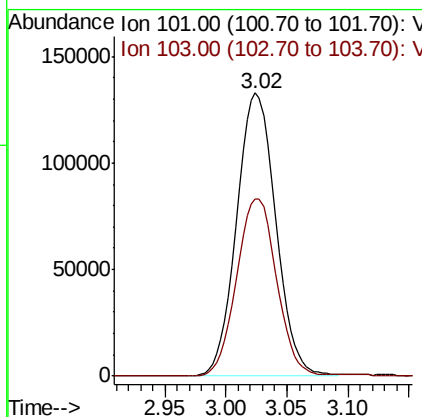
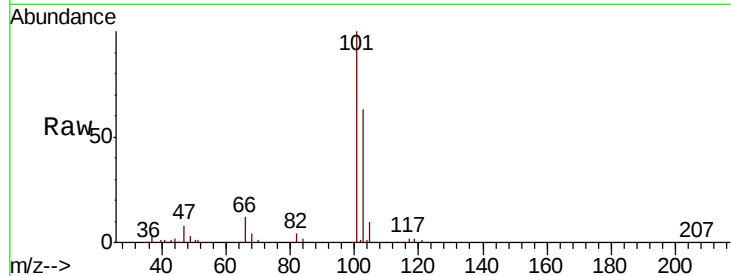
Trichlorofluoromethane
 Concen: 20.024 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

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

Manual Integrations
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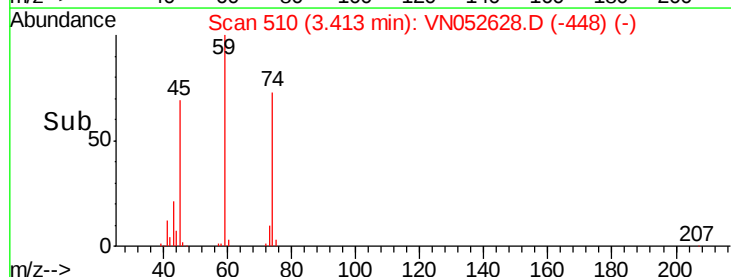
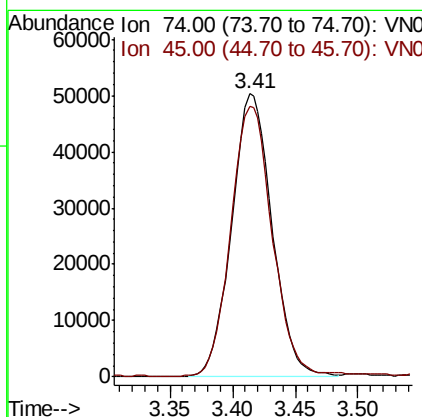
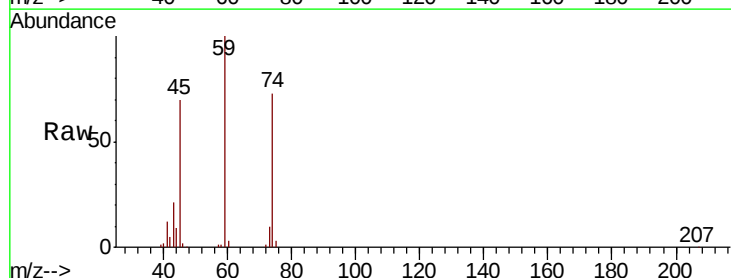
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 12/4/2018 2:57:27 PM

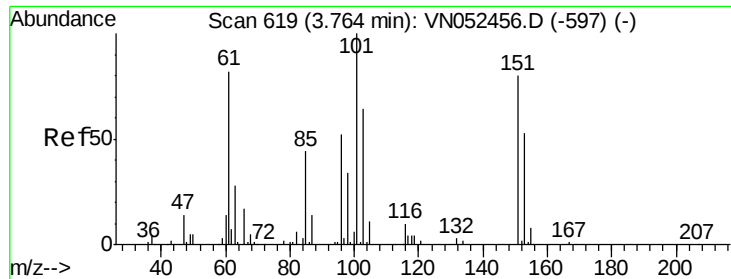


#8

Diethyl Ether
 Concen: 20.704 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.2	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.931 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

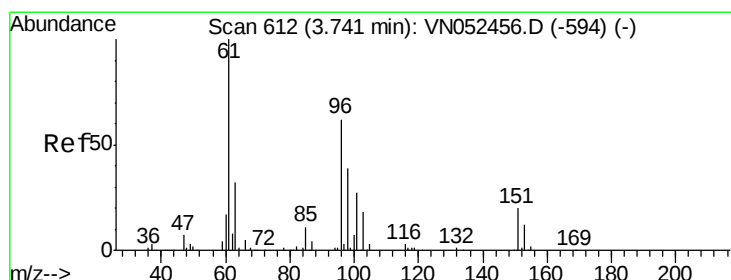
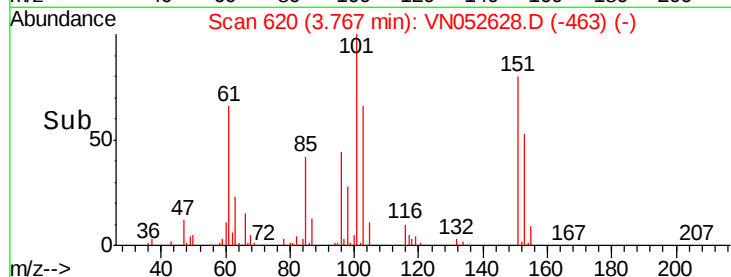
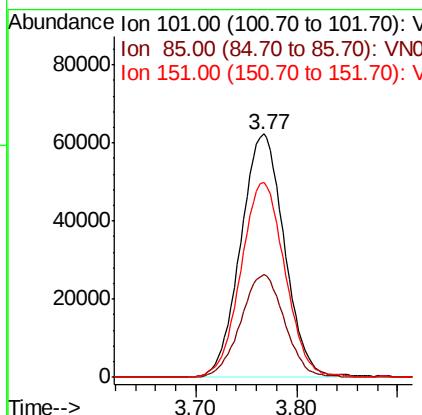
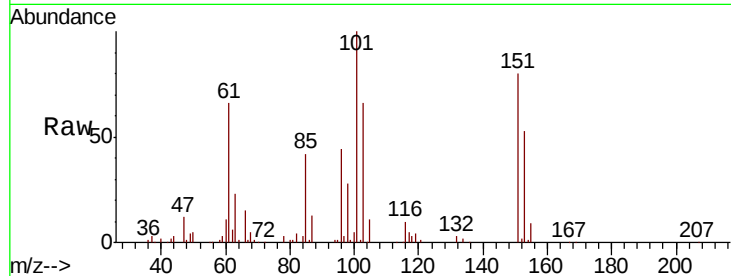
ClientSampleId :

VSTDCCC020

Tot Ion:	101	Resp:	186553
Ion Ratio	Lower	Upper	
101	100		
85	42.3	0.0	82.6
151	81.1	0.0	158.4

Manual Integrations
APPROVED

MMDadoda
12/4/2018 2:57:27 PM



#10

1,1-Dichloroethene

Concen: 20.164 ug/l

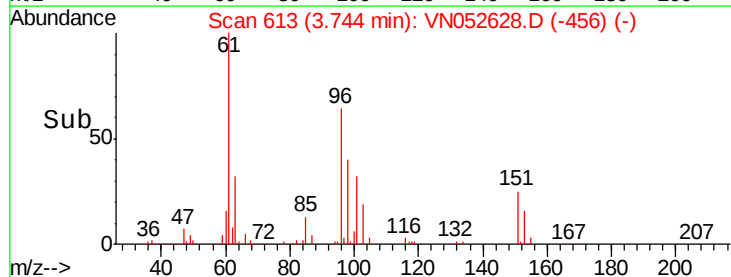
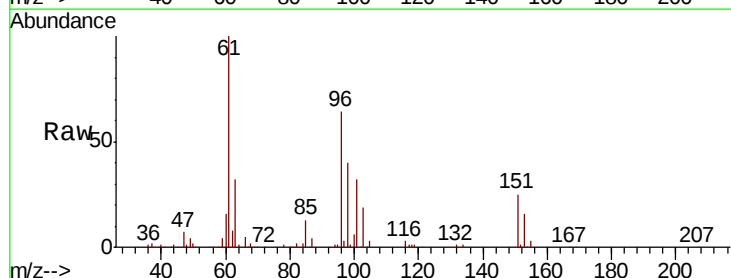
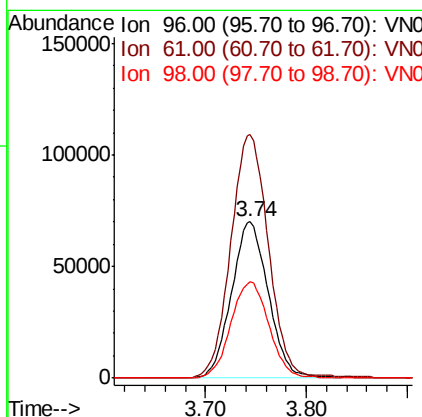
RT: 3.74 min Scan# 613

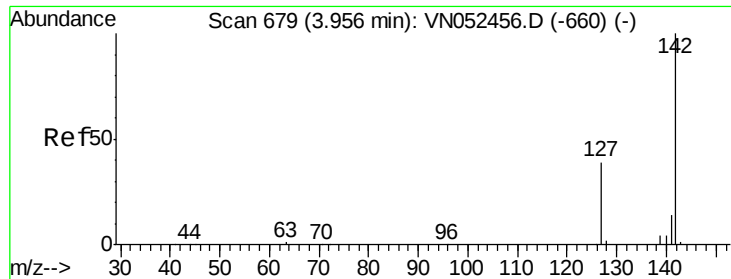
Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Tgt Ion:	96	Resp:	177449
Ion Ratio	Lower	Upper	
96	100		
61	156.1	129.4	194.2
98	62.0	50.4	75.6





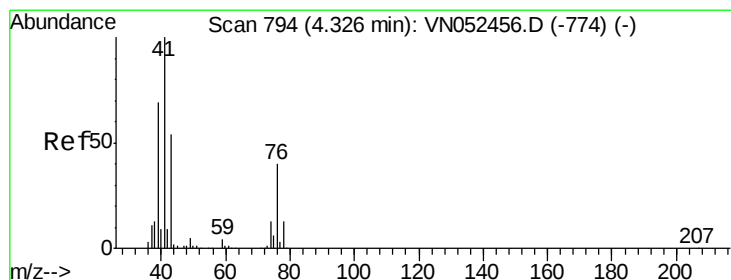
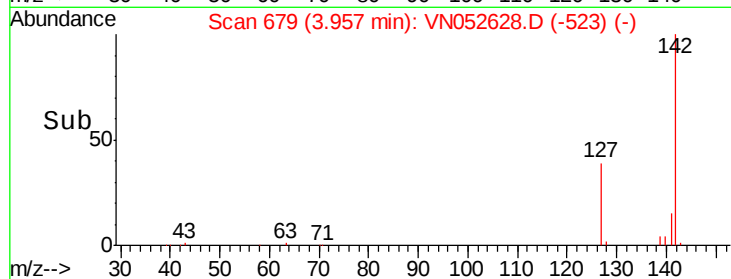
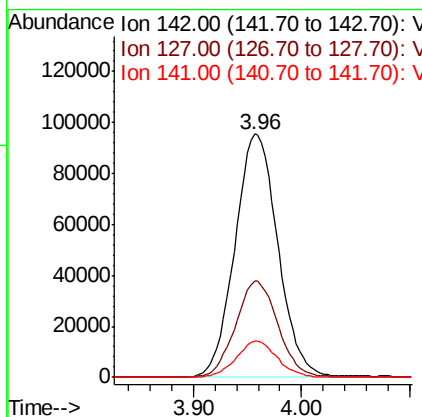
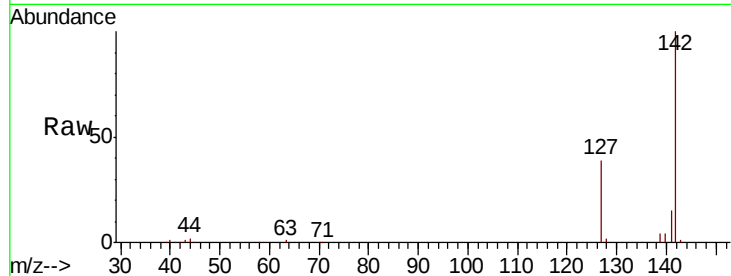
#11
Methyl Iodide
Concen: 21.655 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.5	19.4	58.1
141	15.0	7.2	21.6

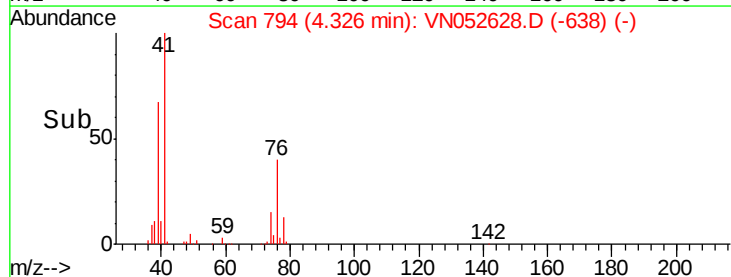
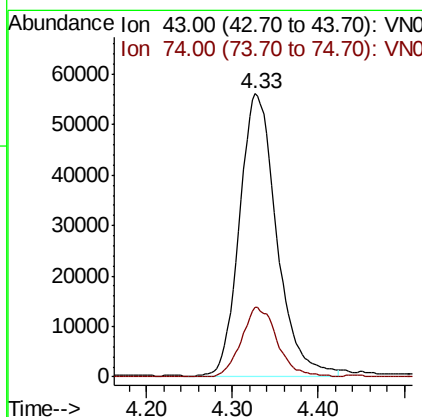
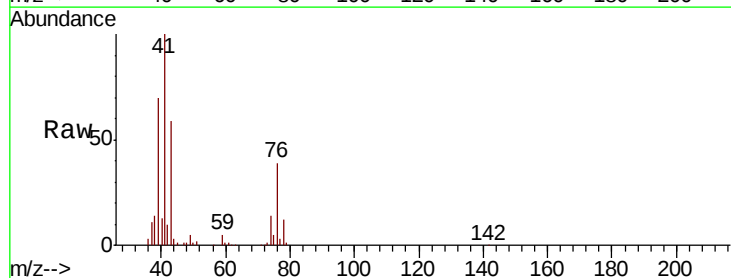
Manual Integrations
APPROVED

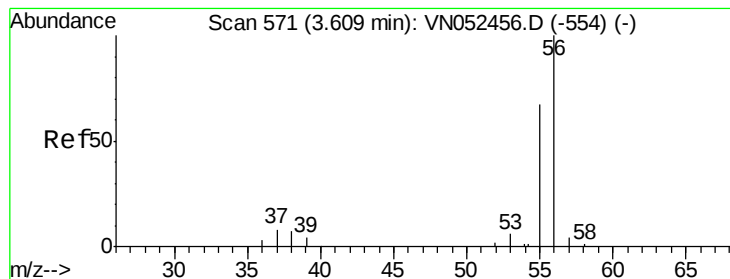
MMDadoda
12/4/2018 2:57:27 PM



#12
Methyl Acetate
Concen: 22.472 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.7	18.9	28.3





#13

Acrolein

Concen: 85.378 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 56 Resp: 74991

Ion Ratio Lower Upper

56 100

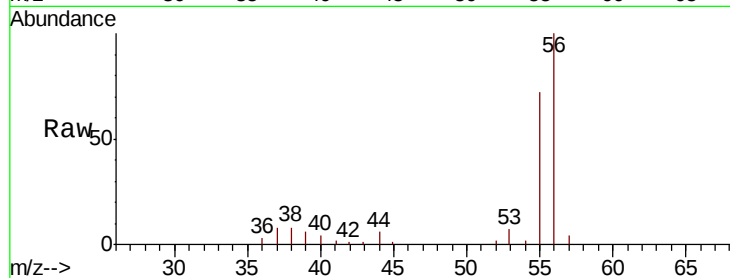
55 71.8 56.7 85.1

Manual Integrations

APPROVED

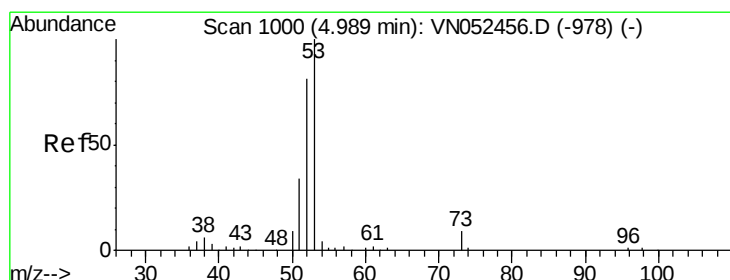
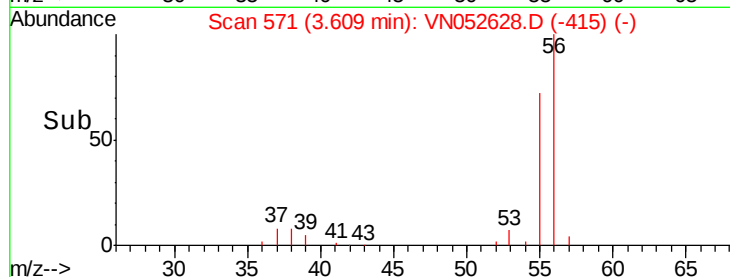
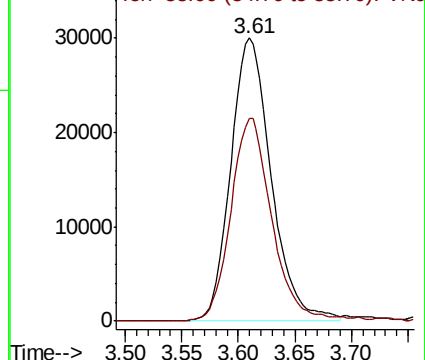
MMDadoda

12/4/2018 2:57:27 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 107.282 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

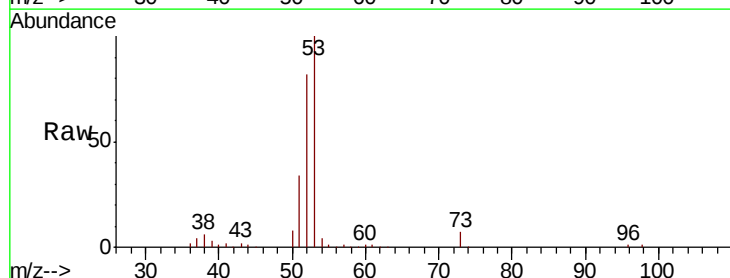
Tgt Ion: 53 Resp: 341801

Ion Ratio Lower Upper

53 100

52 81.0 39.9 119.7

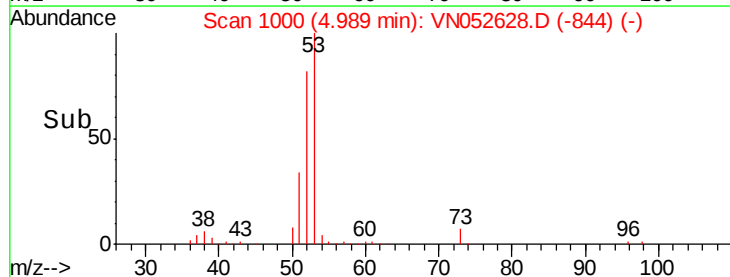
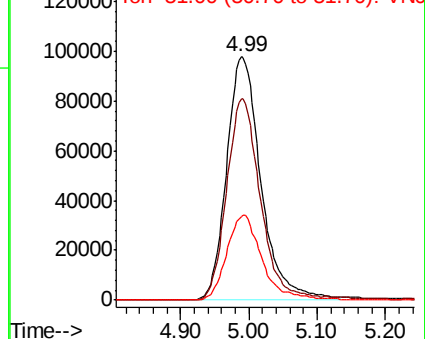
51 33.8 17.6 52.9

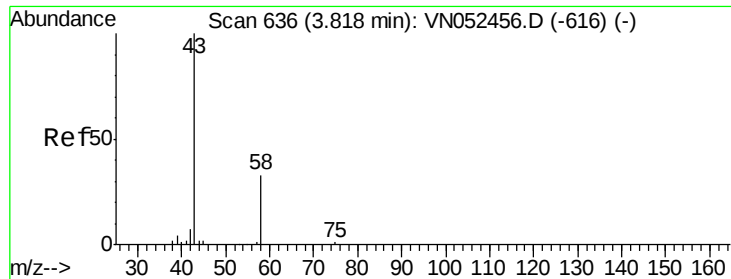


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 119.773 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 58 Resp: 98825

Ion Ratio Lower Upper

58 100

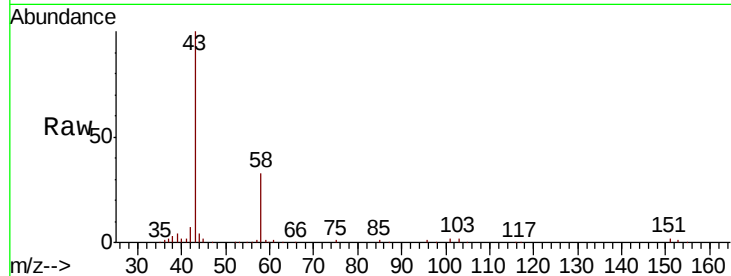
43 306.2 243.6 365.4

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

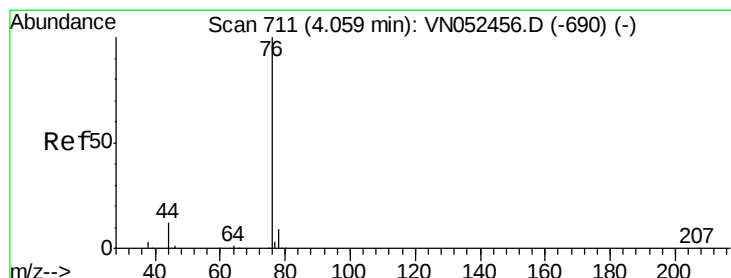
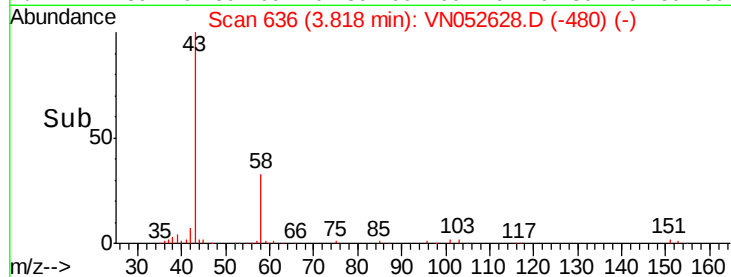
100000

50000

3.82

0

Time-->



#16

Carbon Disulfide

Concen: 18.696 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052628.D

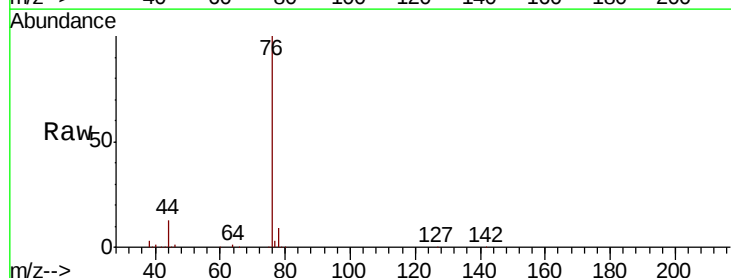
Acq: 3 Dec 2018 13:34

Tgt Ion: 76 Resp: 520910

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VNO

Ion 78.00 (77.70 to 78.70): VNO

200000

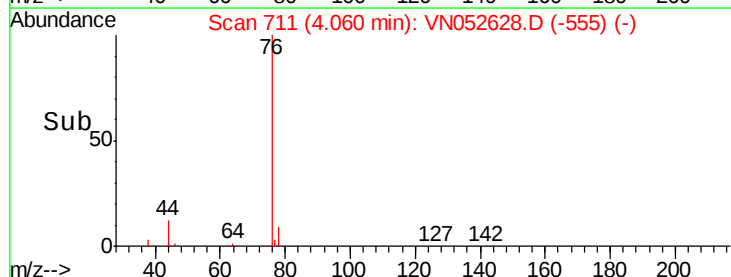
150000

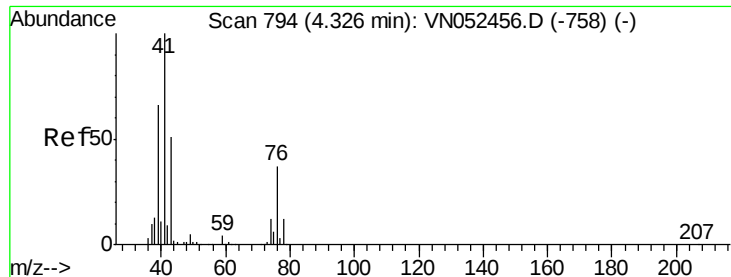
100000

50000

0

Time-->





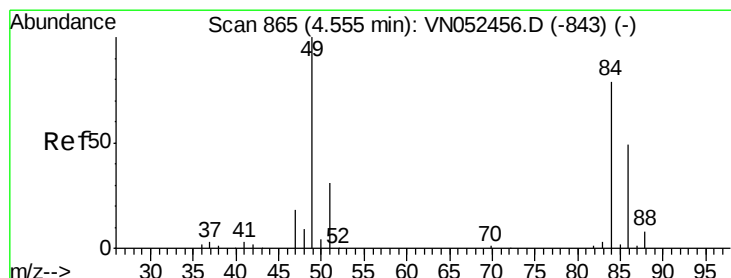
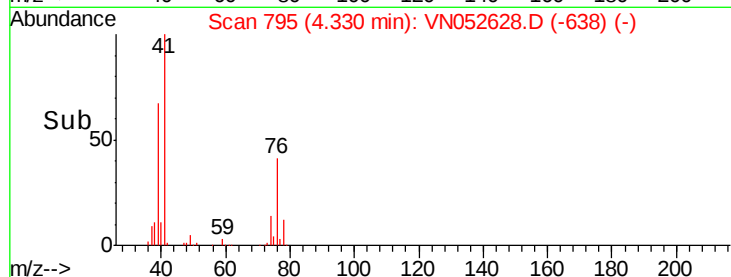
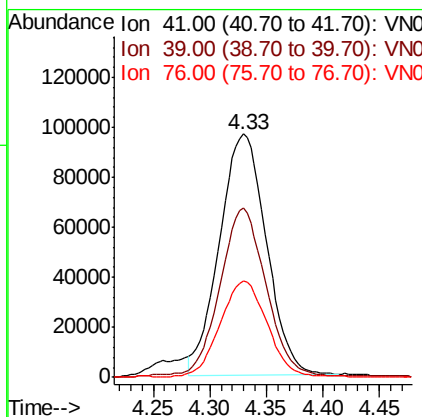
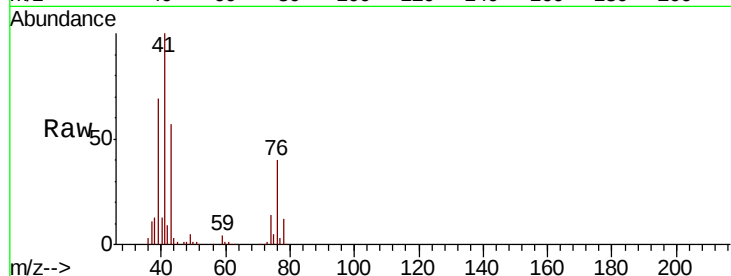
#17
Allvl chloride
Concen: 18.182 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		279052		
39	69.7	32.8	98.3		
76	39.6	18.6	55.8		

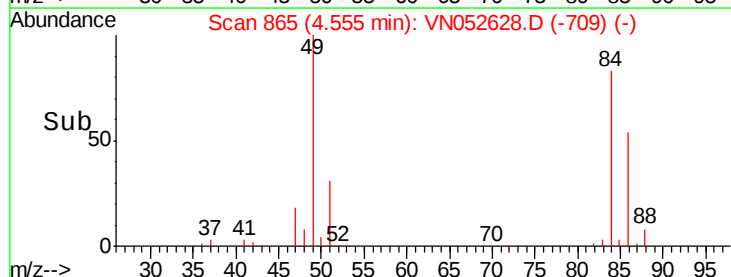
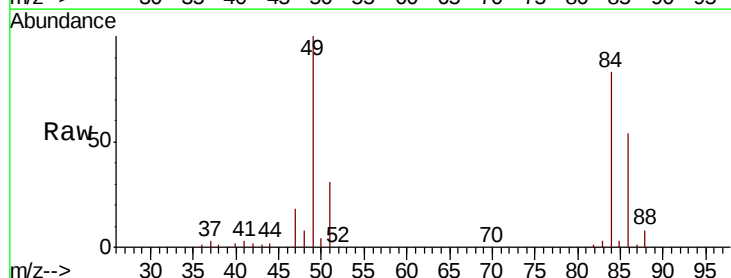
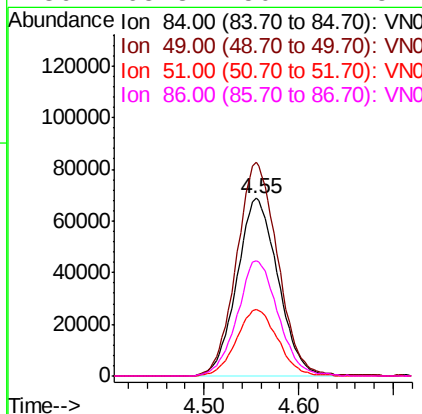
Manual Integrations
APPROVED

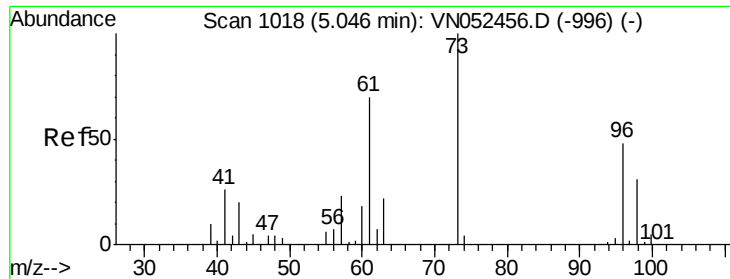
MMDadoda
12/4/2018 2:57:27 PM



#18
Methylene Chloride
Concen: 20.414 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
84	100		208008		
49	120.3	101.4	152.0		
51	37.4	31.7	47.5		
86	65.3	50.1	75.1		





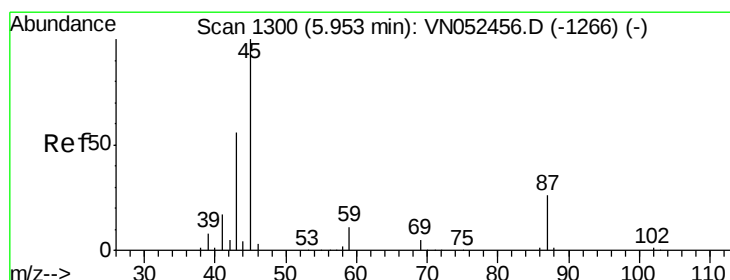
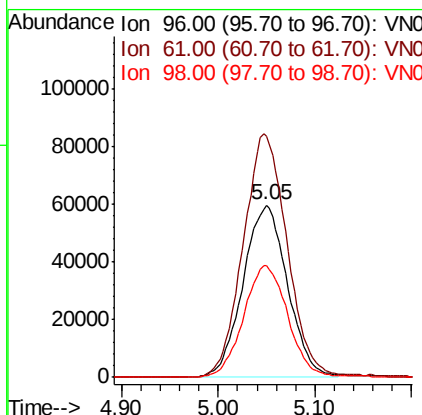
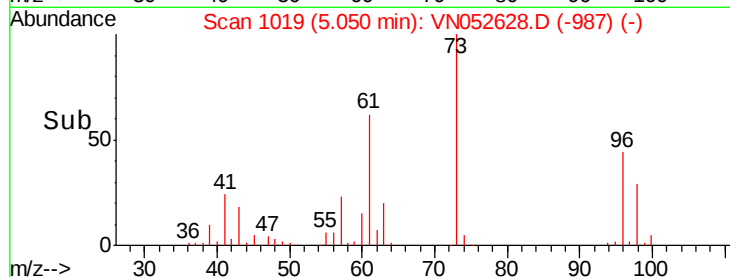
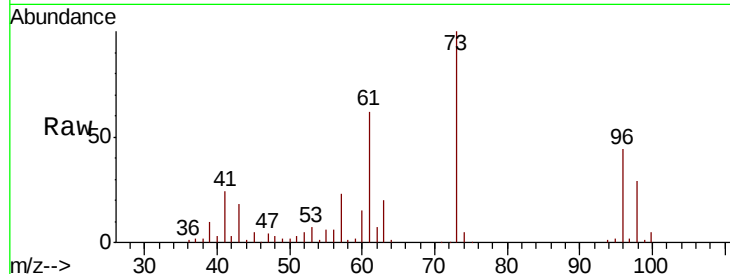
#19
trans-1,2-Dichloroethene
Concen: 20.128 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.4	118.2	177.4
98	64.7	51.4	77.2

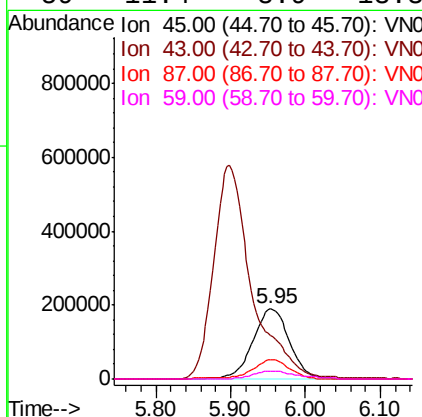
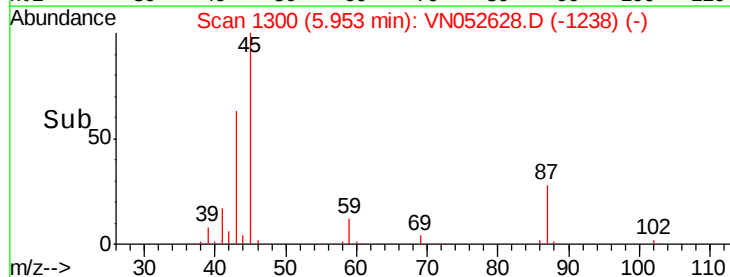
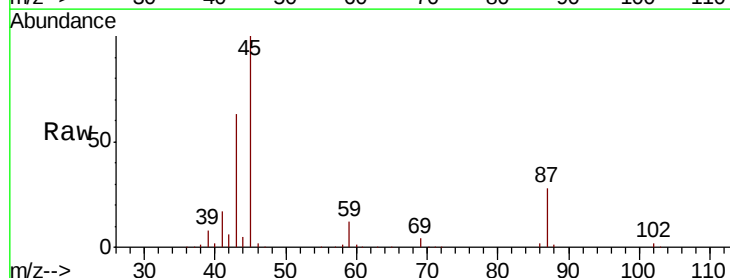
Manual Integrations
APPROVED

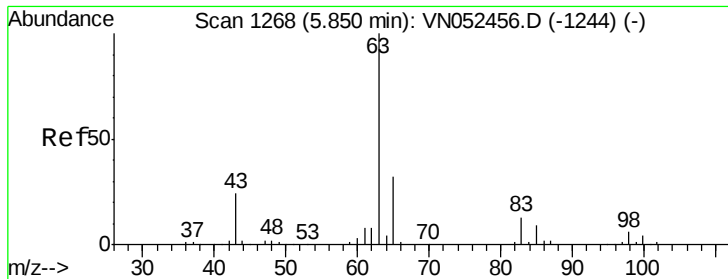
MMDadoda
12/4/2018 2:57:27 PM



#20
Diisopropyl ether
Concen: 20.043 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.2	47.8	71.8
87	27.5	21.3	31.9
59	11.4	8.9	13.3





#21

1,1-Dichloroethane

Concen: 20.240 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

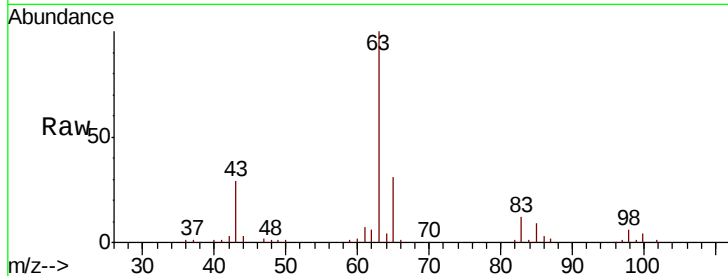
ClientSampleId :

VSTDCCC020

Tot Ion:	63	Resp:	372075
Ion Ratio	Lower	Upper	
63	100		
98	6.4	3.0	9.2
100	4.1	1.8	5.5

Manual Integrations
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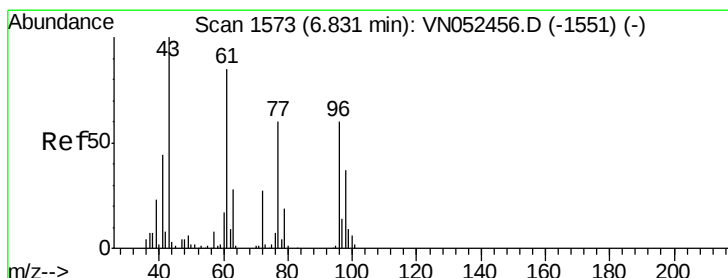
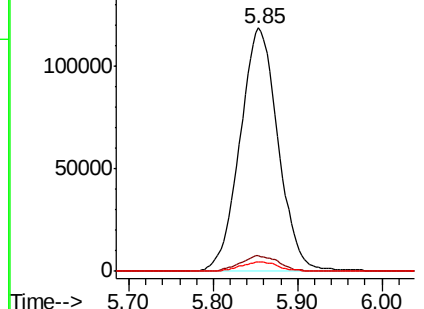
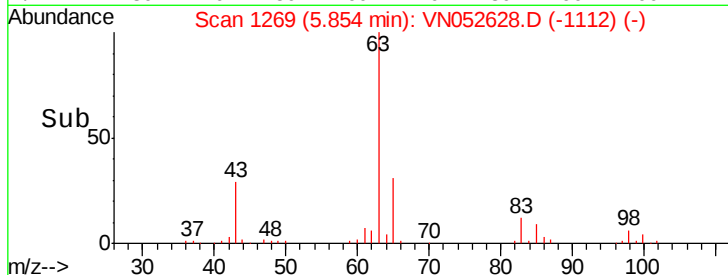


Abundance Ion 63.00 (62.70 to 63.70): VN052456.D (-1244) (-)

Ion 98.00 (97.70 to 98.70): VN052456.D (-1244) (-)

Ion 100.00 (99.70 to 100.70): VN052456.D (-1244) (-)

Time-->



#22

cis-1,2-Dichloroethene

Concen: 20.433 ug/l

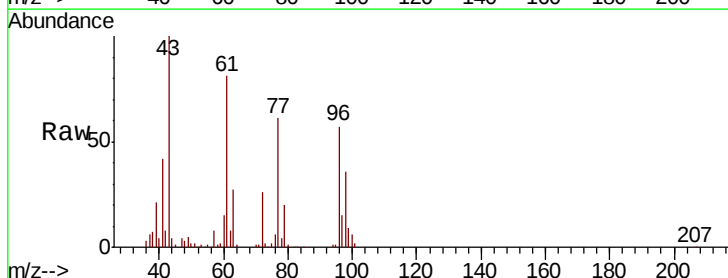
RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Tgt Ion:	96	Resp:	221783
Ion Ratio	Lower	Upper	
96	100		
61	144.3	116.7	175.1
98	64.4	50.8	76.2

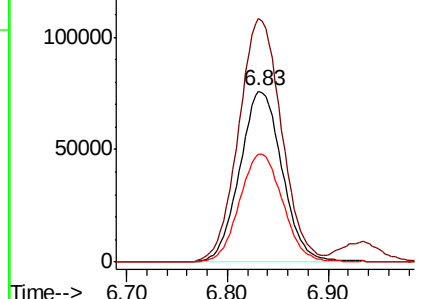
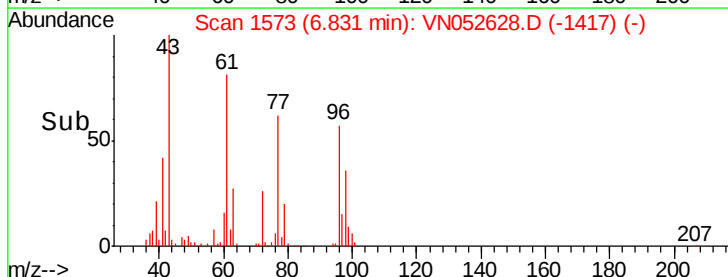


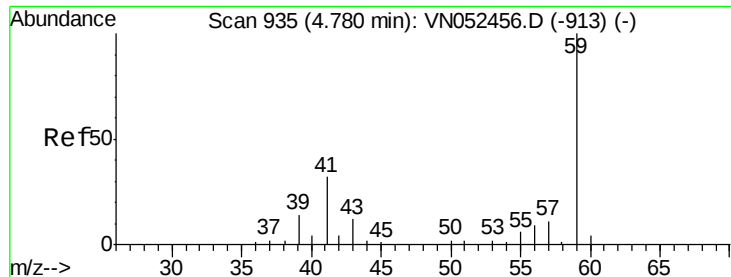
Abundance Ion 96.00 (95.70 to 96.70): VN052456.D (-1551) (-)

Ion 61.00 (60.70 to 61.70): VN052456.D (-1551) (-)

Ion 98.00 (97.70 to 98.70): VN052456.D (-1551) (-)

Time-->





#23

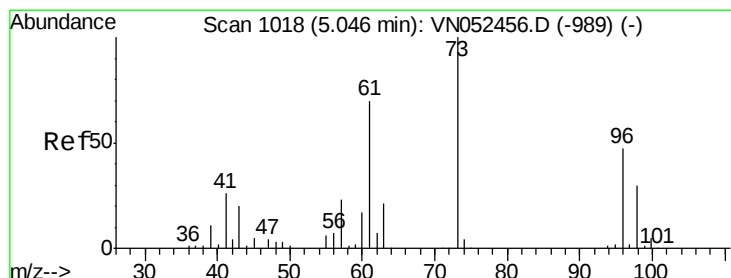
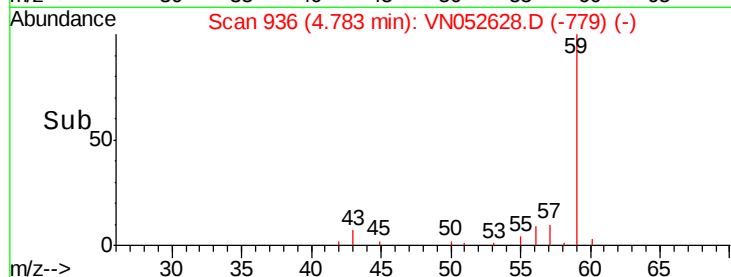
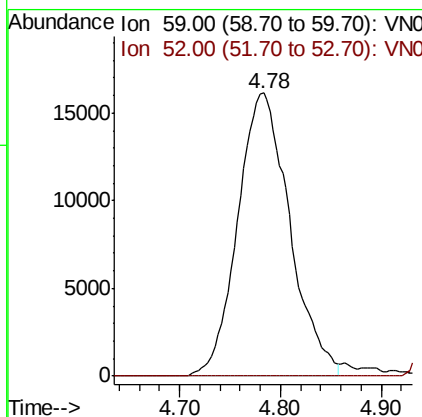
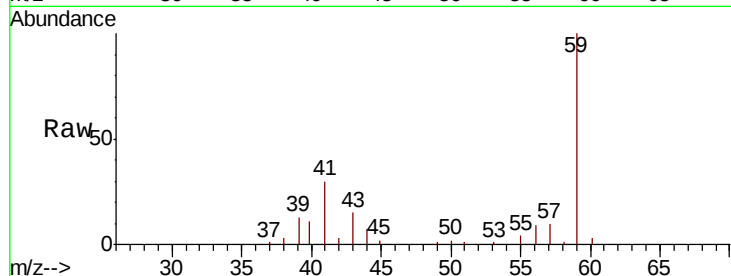
tert-Butyl Alcohol
 Concen: 121.975 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	59	52	Ratio	100	0.0	Resp	57810	Lower	Upper
59	100								
52		0.0			0.0			0.0	

Manual Integrations
 APPROVED

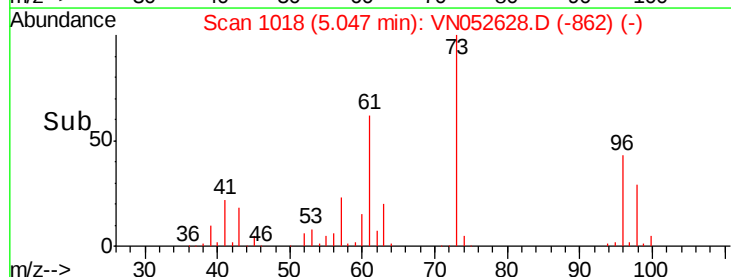
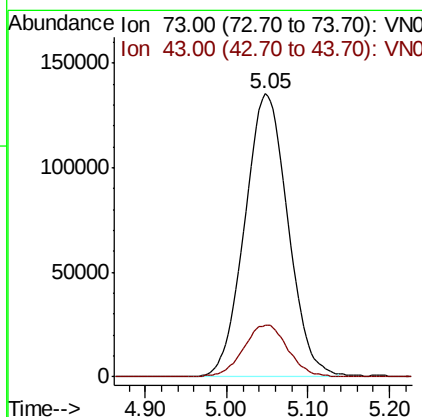
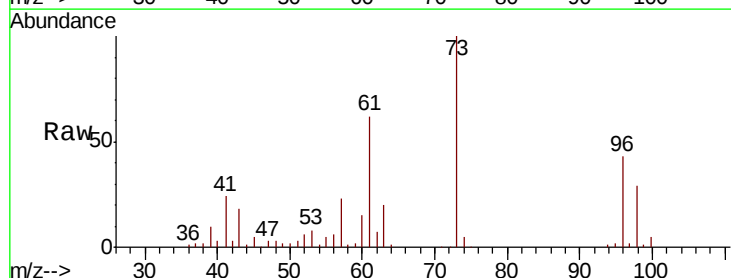
MMDadoda
 12/4/2018 2:57:27 PM

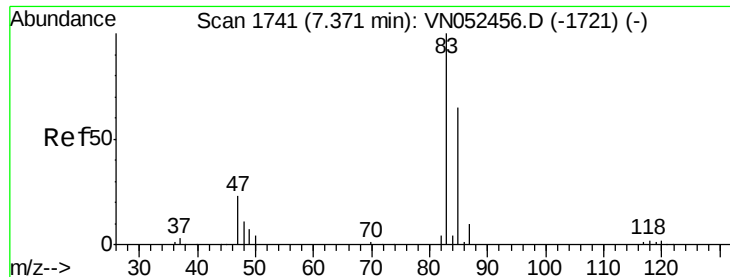


#24

Methyl tert-Butyl Ether
 Concen: 21.583 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Tgt Ion	73	43	Ratio	100	18.5	Resp	498293	Lower	Upper
73	100								
43		18.5			15.8			23.8	





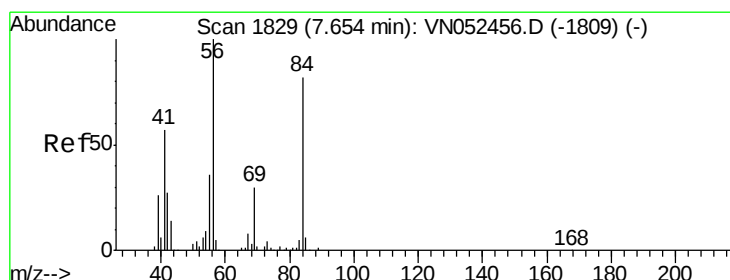
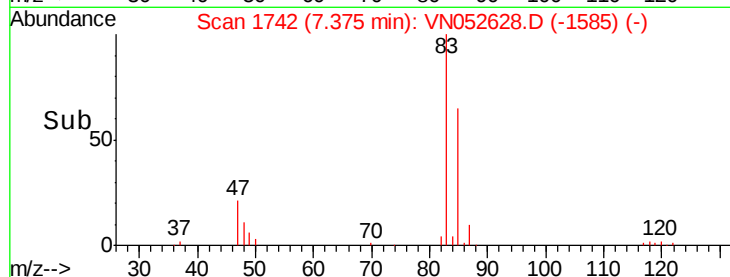
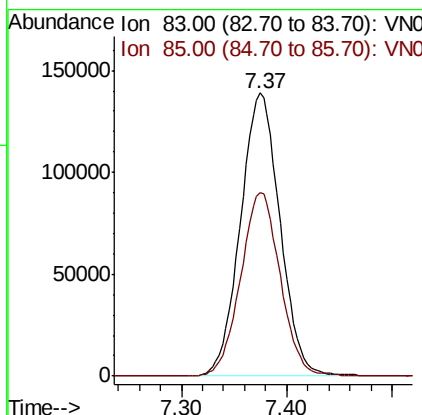
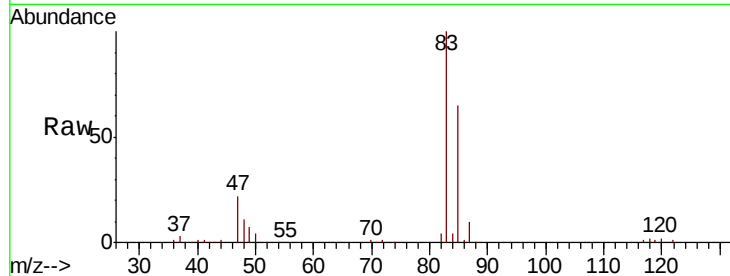
#25
Chloroform
Concen: 20.442 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 83 Resp: 362520
Ion Ratio Lower Upper
83 100
85 65.0 51.7 77.5

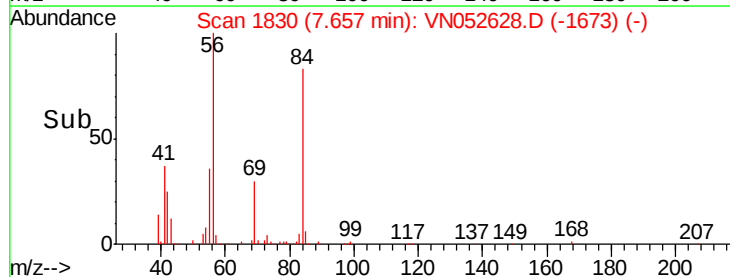
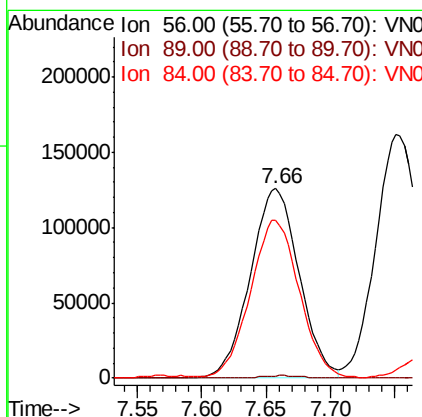
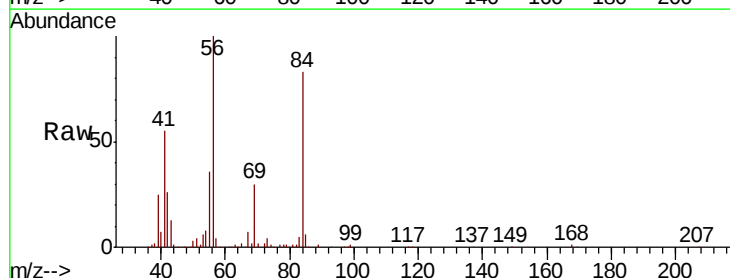
Manual Integrations
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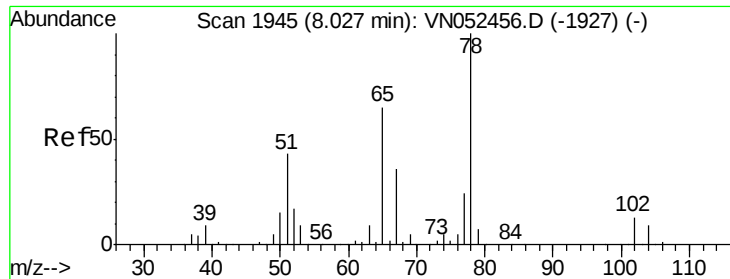
MMDadoda
12/4/2018 2:57:27 PM



#26
Cyclohexane
Concen: 19.172 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion: 56 Resp: 332404
Ion Ratio Lower Upper
56 100
89 1.1 0.5 0.7#
84 83.8 66.2 99.2





#27

1,2-Dichloroethane-d4

Concen: 19.172 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 65 Resp: 325911

Ion Ratio Lower Upper

65 100

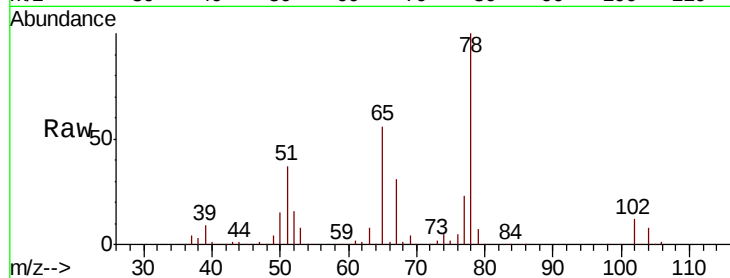
67 54.7 44.6 66.8

Manual Integrations

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Abundance Ion 65.00 (64.70 to 65.70): VN052456.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN052456.D (-1927) (-)

8.03

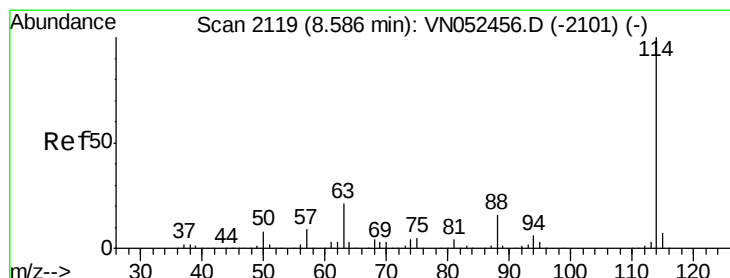
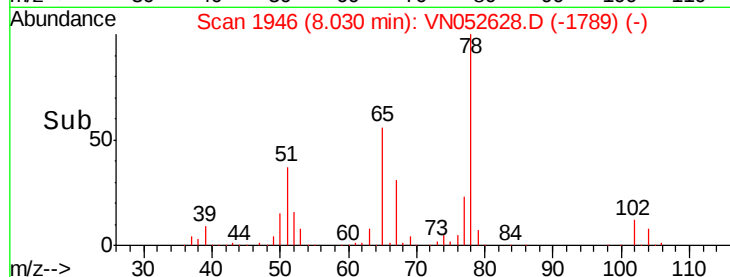
150000

100000

50000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

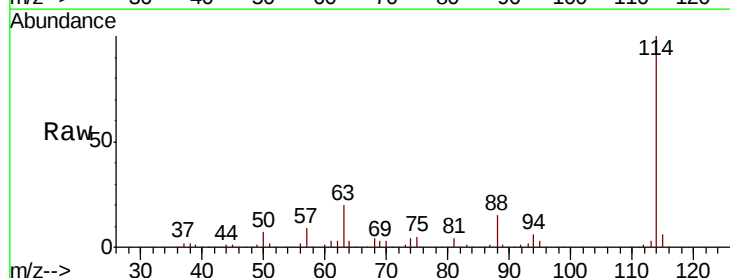
Tgt Ion: 114 Resp: 925913

Ion Ratio Lower Upper

114 100

63 20.1 16.9 25.3

88 15.7 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): VN052456.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN052456.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN052456.D (-2101) (-)

8.59

600000

500000

400000

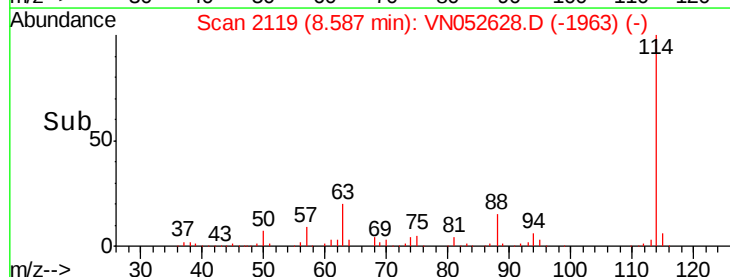
300000

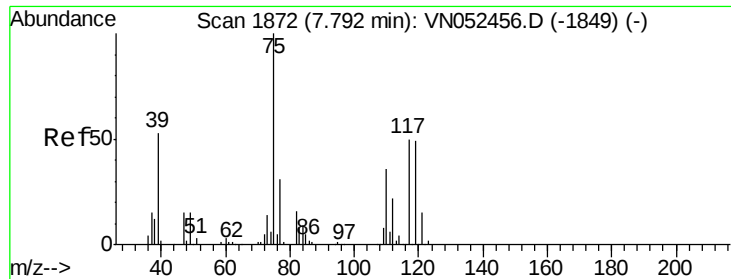
200000

100000

0

Time-->





#29

1,1-Dichloropropene

Concen: 19.623 ug/l

RT: 7.80 min Scan# 1873

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

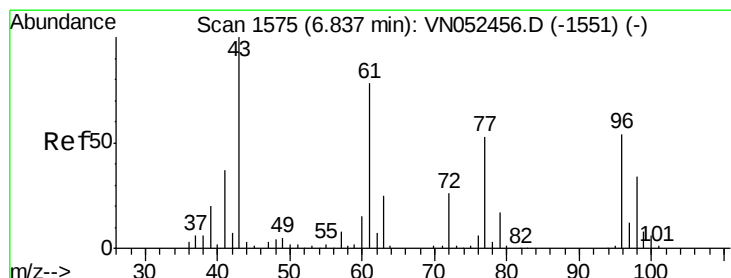
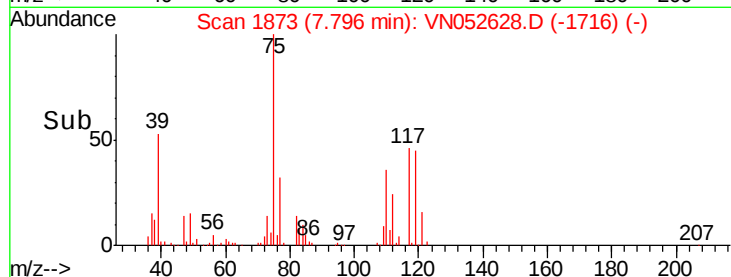
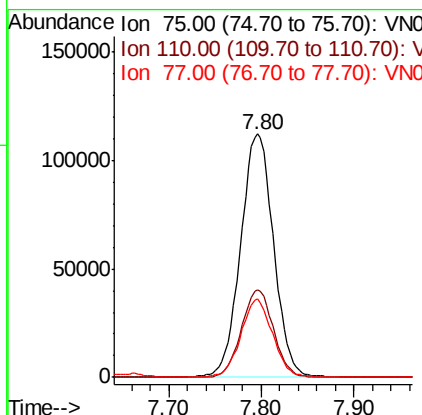
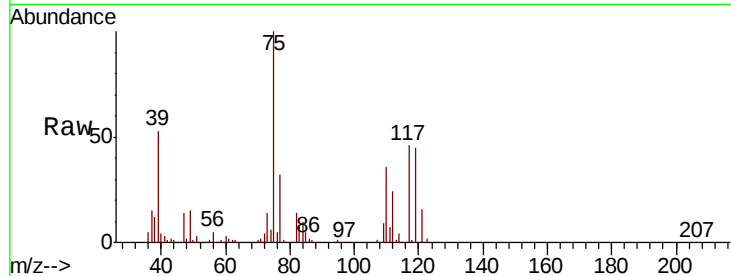
ClientSampleId :

VSTDCCC020

Tot Ion:	75	Resp:	277459
Ion Ratio	Lower	Upper	
75	100		
110	34.9	0.0	70.2
77	31.1	0.0	62.6

Manual Integrations
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#30

2-Butanone

Concen: 111.011 ug/l

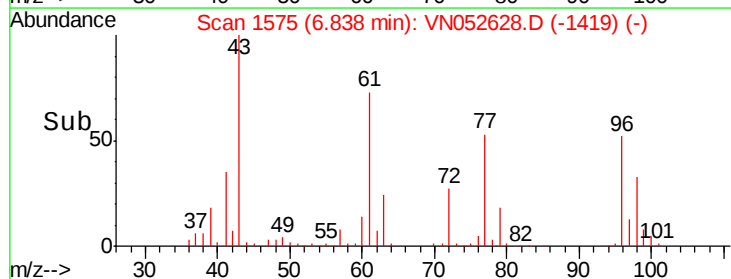
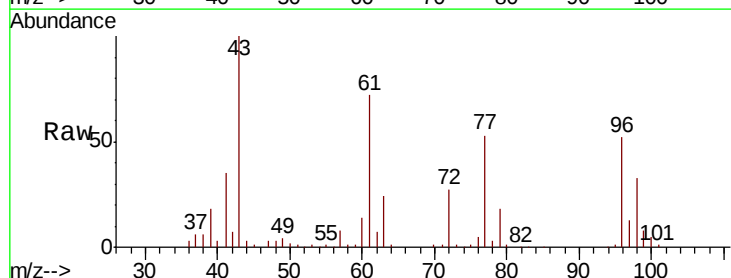
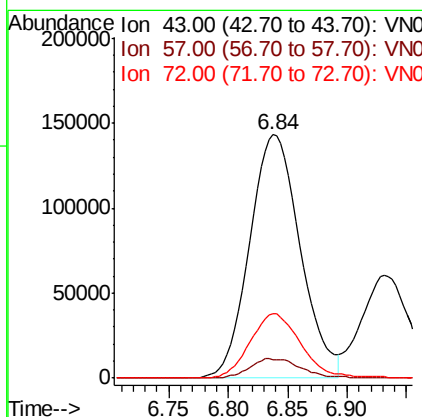
RT: 6.84 min Scan# 1575

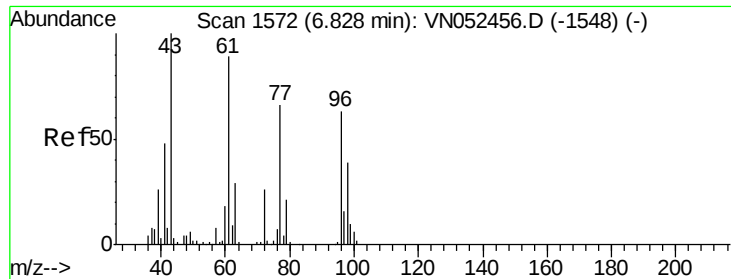
Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Tgt Ion:	43	Resp:	420016
Ion Ratio	Lower	Upper	
43	100		
57	8.0	6.2	9.4
72	26.6	21.0	31.6





#31

2,2-Dichloropropane

Concen: 20.308 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 77 Resp: 264357

Ion Ratio Lower Upper

77 100

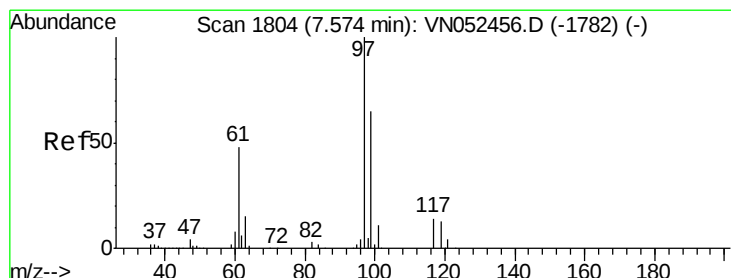
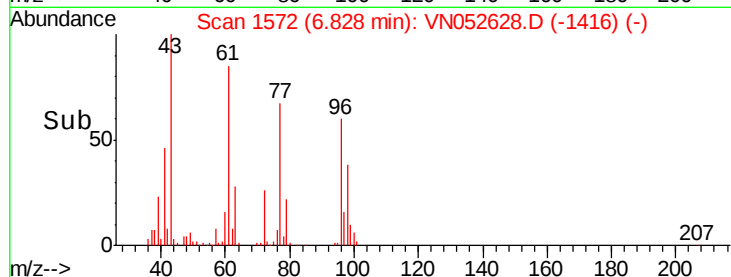
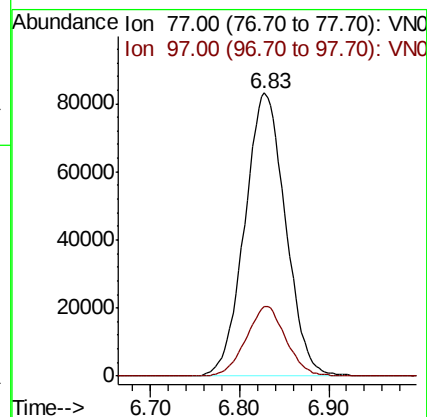
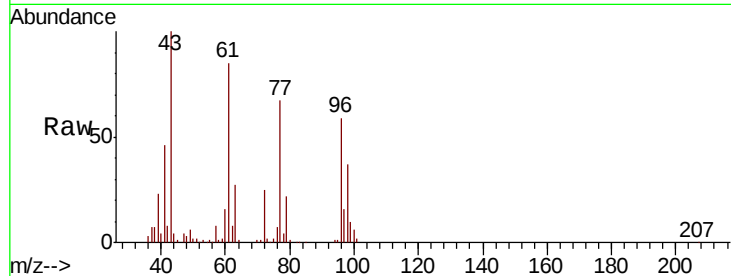
97 24.0 18.7 28.1

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 20.165 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

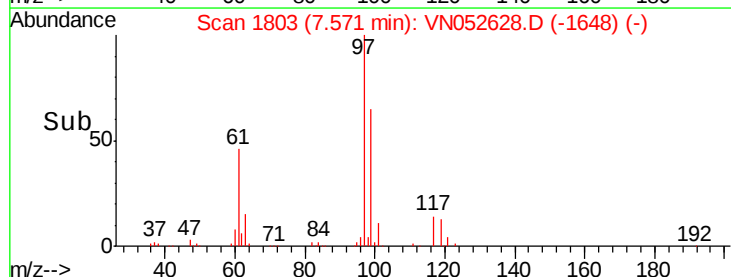
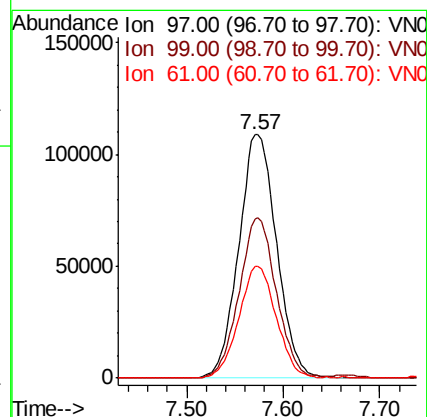
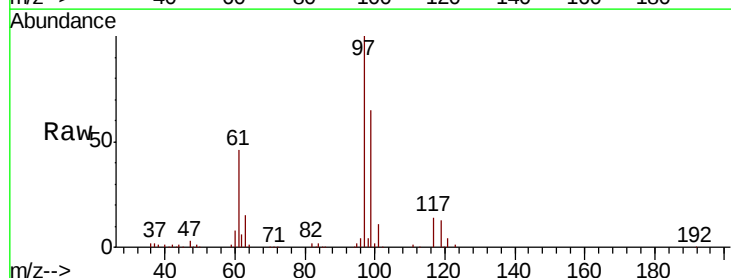
Tgt Ion: 97 Resp: 296676

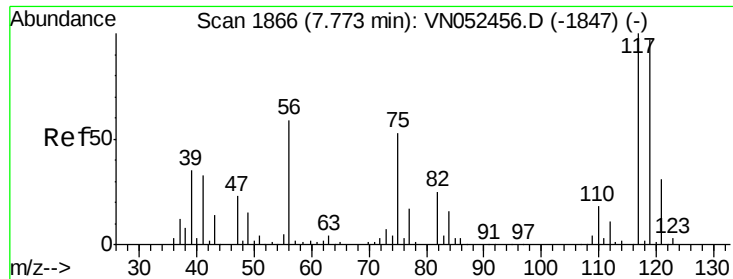
Ion Ratio Lower Upper

97 100

99 64.7 50.9 76.3

61 45.3 38.1 57.1





#33

Carbon Tetrachloride

Concen: 19.843 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

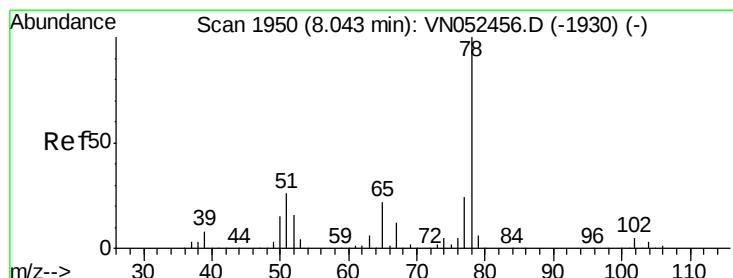
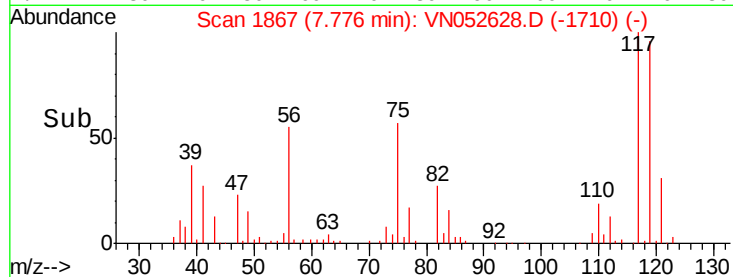
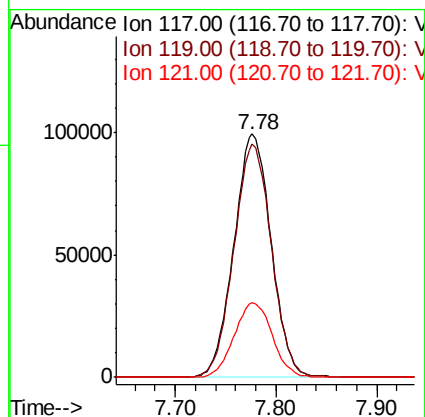
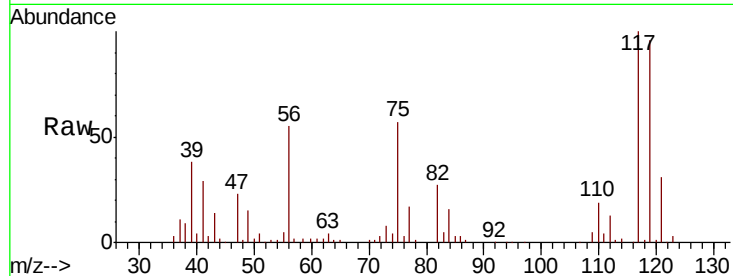
ClientSampleId :

VSTDCCC020

Tot Ion:	117	Resp:	255439
Ion Ratio	Lower	Upper	
117	100		
119	95.6	77.3	115.9
121	30.7	24.9	37.3

Manual Integrations
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#34

Benzene

Concen: 19.882 ug/l

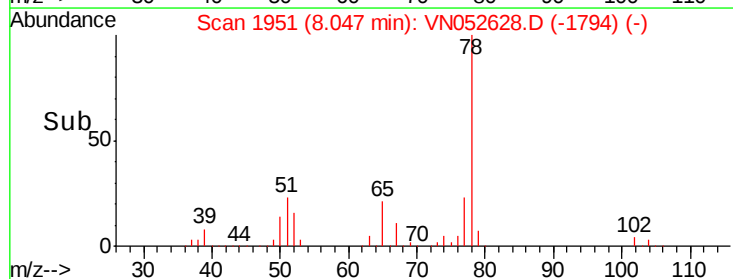
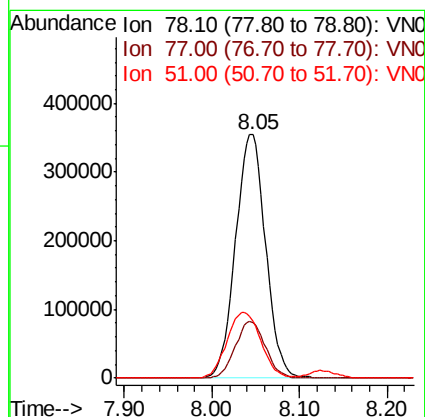
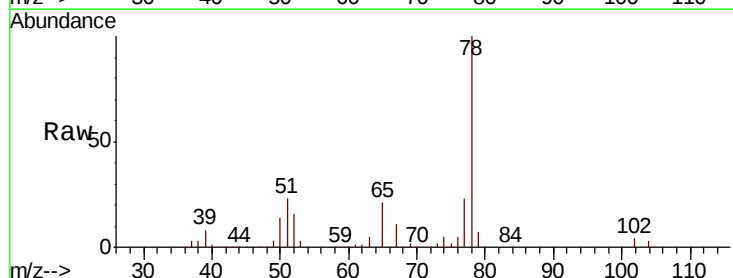
RT: 8.05 min Scan# 1951

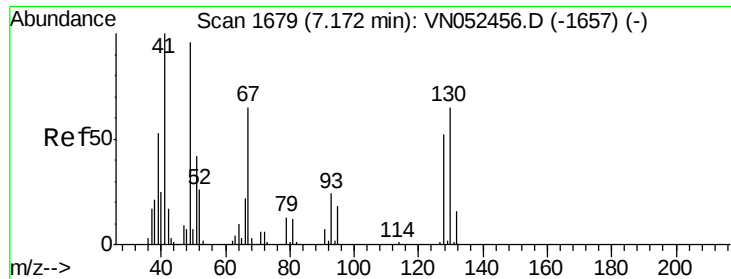
Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Tgt Ion:	78	Resp:	845210
Ion Ratio	Lower	Upper	
78	100		
77	22.9	19.0	28.6
51	23.4	20.5	30.7





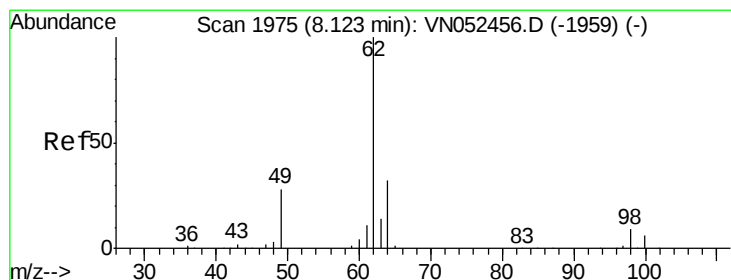
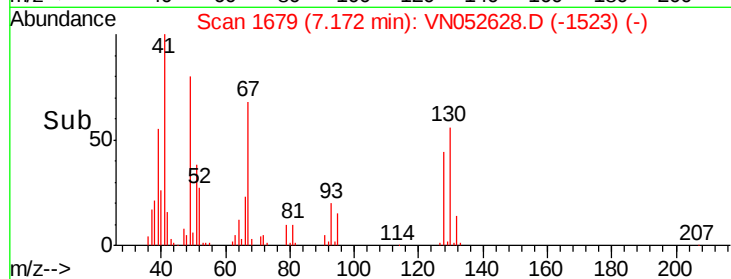
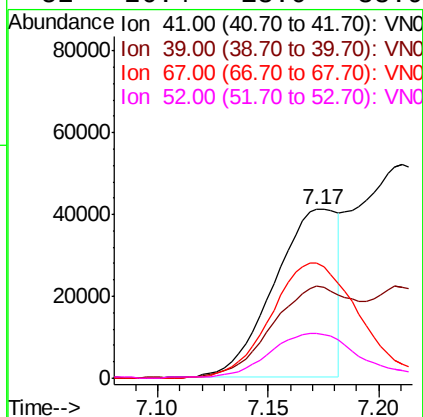
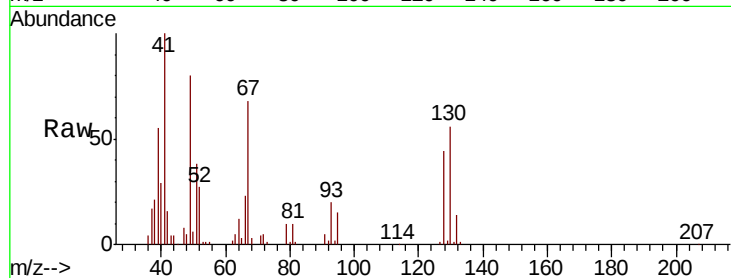
#35
Methacrylonitrile
Concen: 17.400 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion:	41	Resp:	81680
Ion	Ratio	Lower	Upper
41	100		
39	54.5	26.6	79.7
67	68.4	32.3	96.9
52	26.4	13.0	38.9

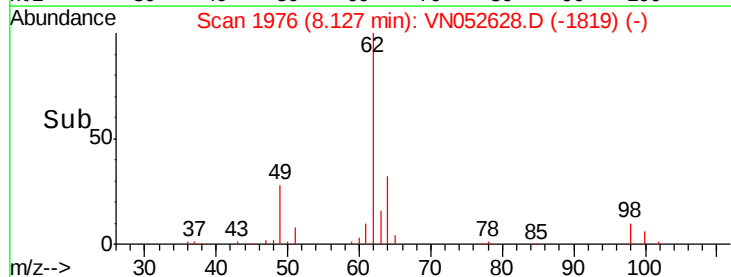
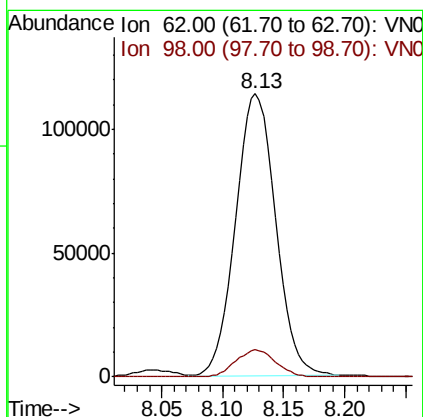
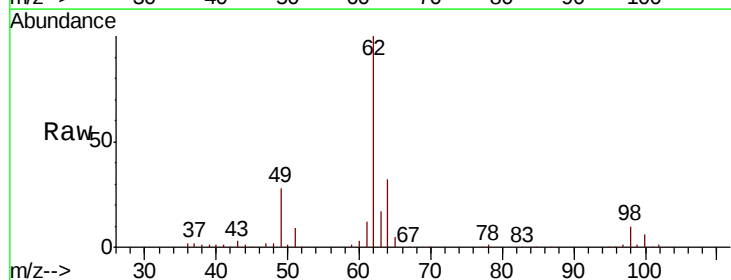
Manual Integrations
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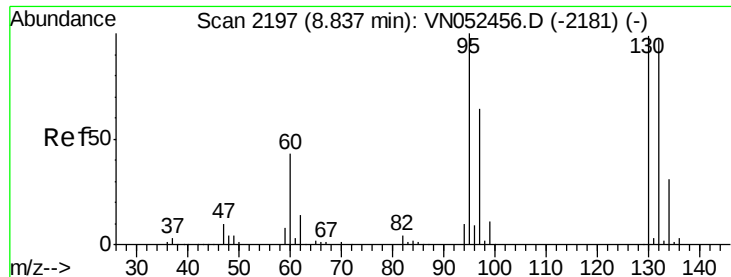
MMDadoda
12/4/2018 2:57:27 PM



#36
1,2-Dichloroethane
Concen: 20.172 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion:	62	Resp:	259863
Ion	Ratio	Lower	Upper
62	100		
98	9.5	7.4	11.2





#37

Trichloroethene

Concen: 19.869 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:130 Resp: 214190

Ion Ratio Lower Upper

130 100

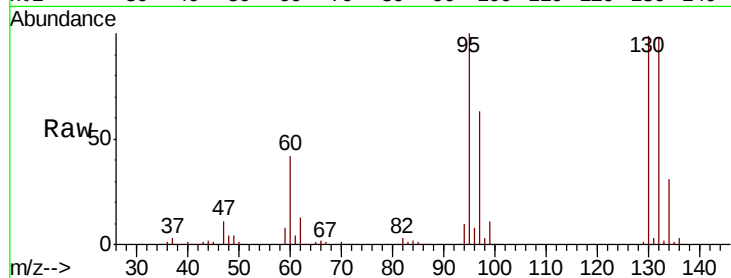
95 101.5 81.0 121.4

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

120000

100000

80000

60000

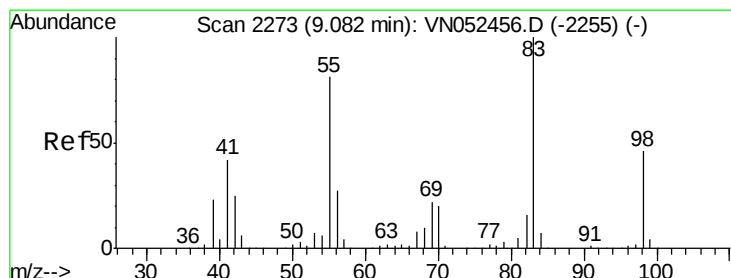
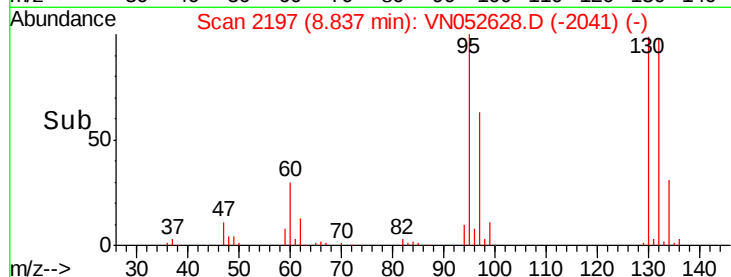
40000

20000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 18.993 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

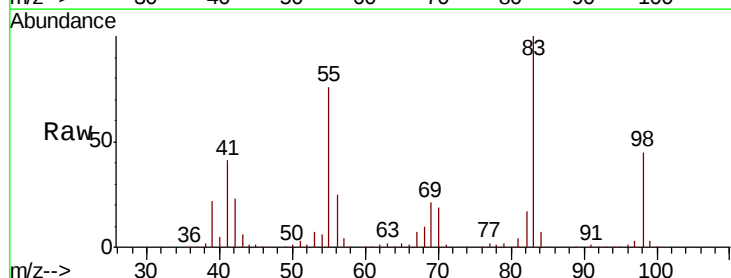
Tgt Ion: 83 Resp: 332449

Ion Ratio Lower Upper

83 100

55 76.2 39.8 119.4

98 45.3 22.9 68.5



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

200000

150000

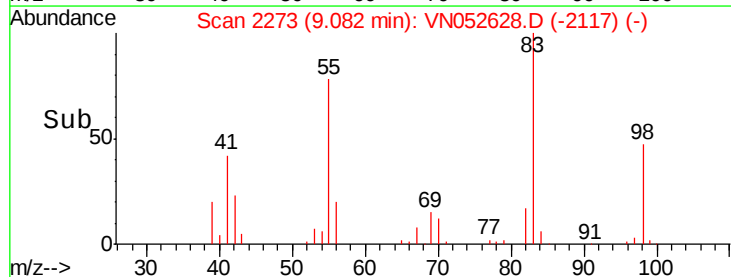
100000

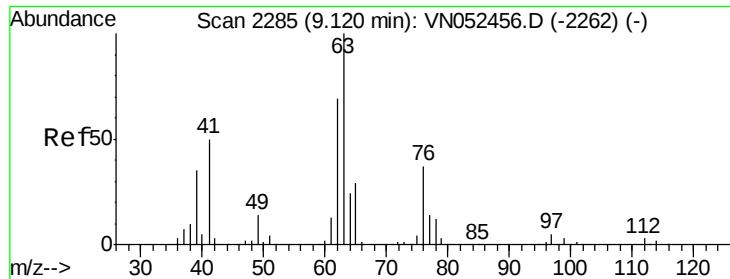
50000

0

9.00 9.05 9.10 9.15 9.20

Time-->





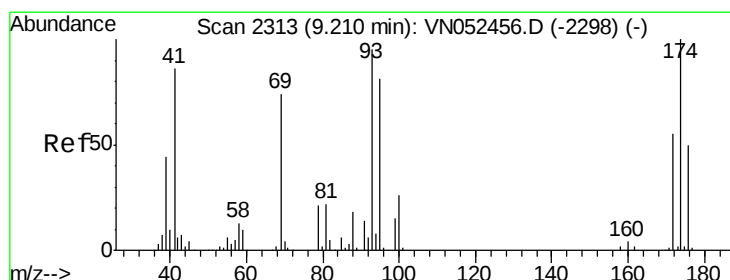
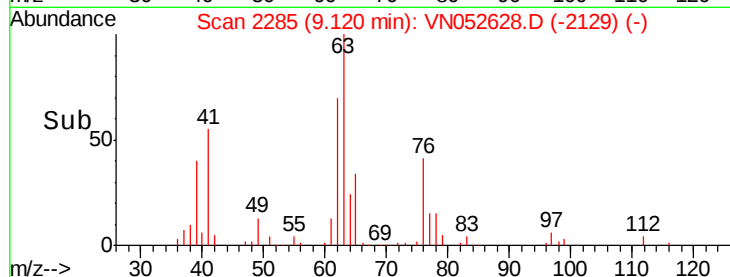
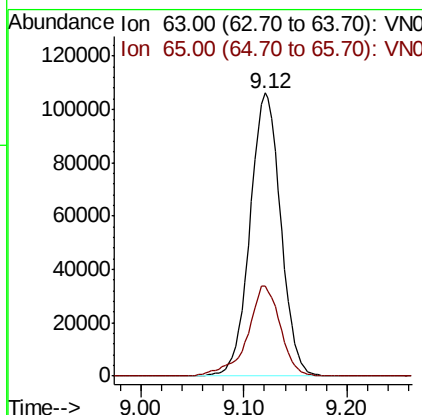
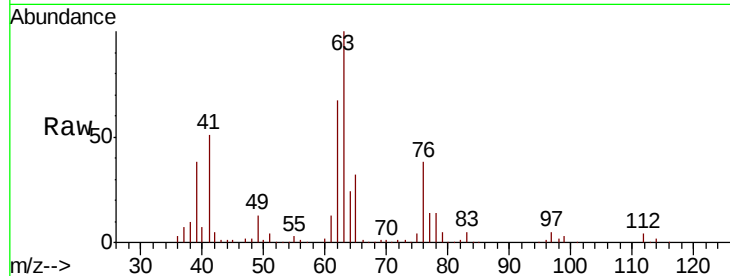
#39
 1,2-Dichloropropane
 Concen: 19.252 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion: 63 Resp: 219385
 Ion Ratio Lower Upper
 63 100
 65 31.9 23.6 35.4

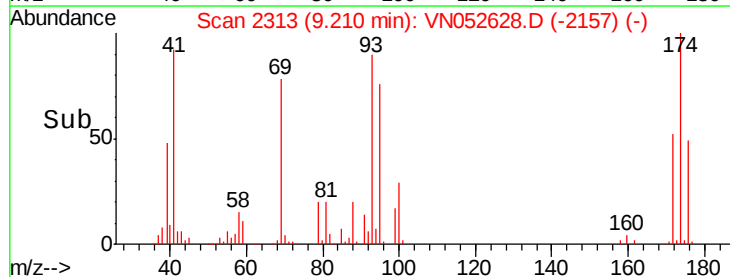
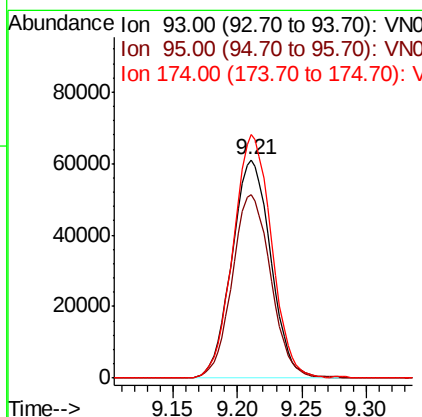
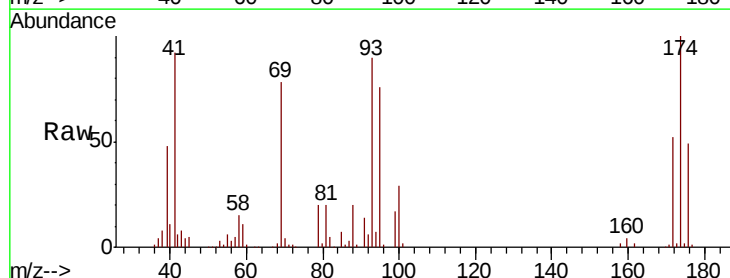
Manual Integrations
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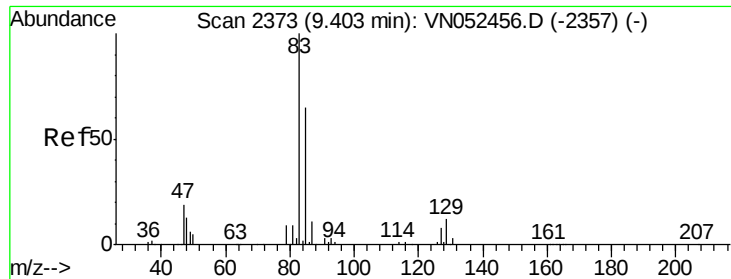
MMDadoda
 12/4/2018 2:57:27 PM



#40
 Dibromomethane
 Concen: 20.811 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Tgt Ion: 93 Resp: 128153
 Ion Ratio Lower Upper
 93 100
 95 83.3 0.0 168.4
 174 109.9 0.0 210.0





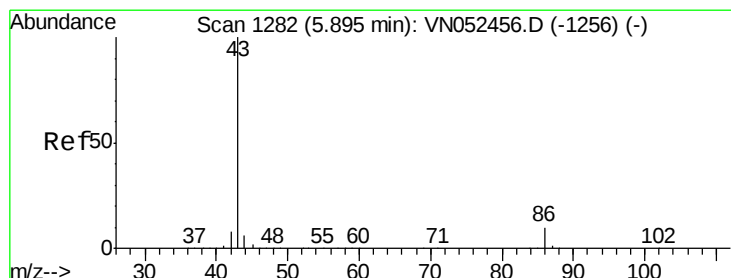
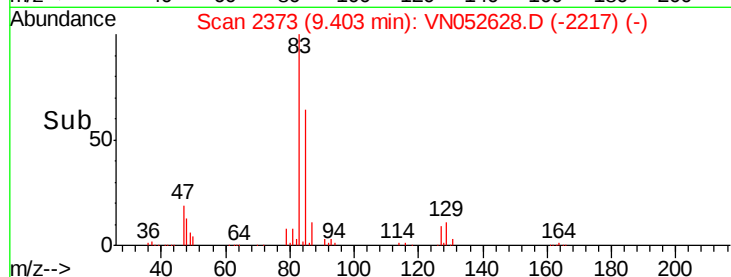
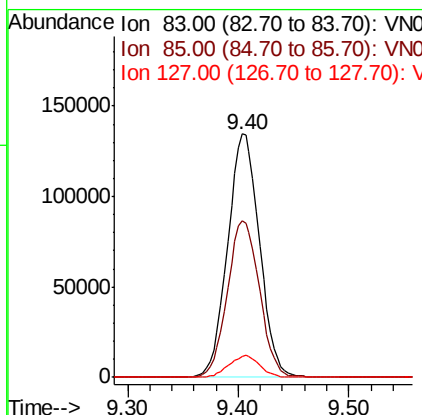
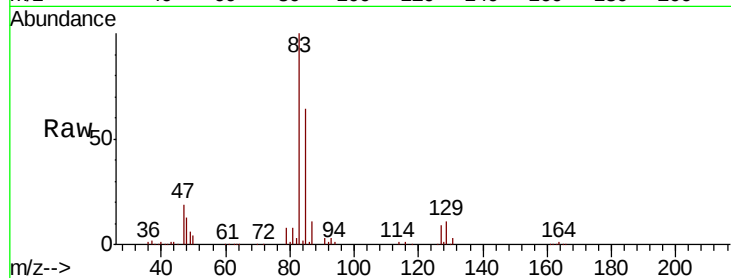
#41
Bromodichloromethane
Concen: 19.775 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	83	Resp	269045
Ion Ratio	100	Lower	Upper
83	100		
85	64.4	52.4	78.6
127	8.5	6.6	9.8

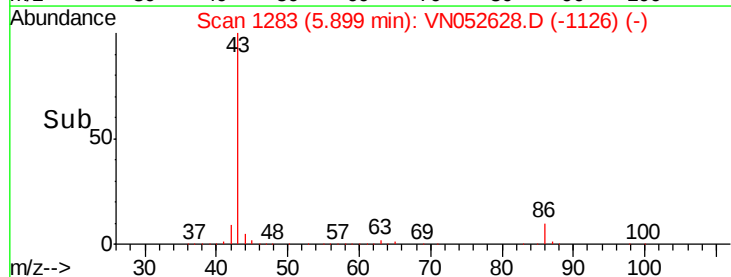
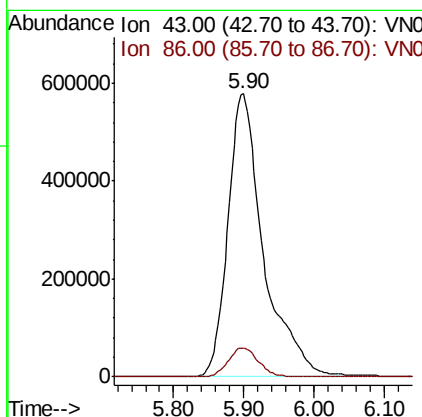
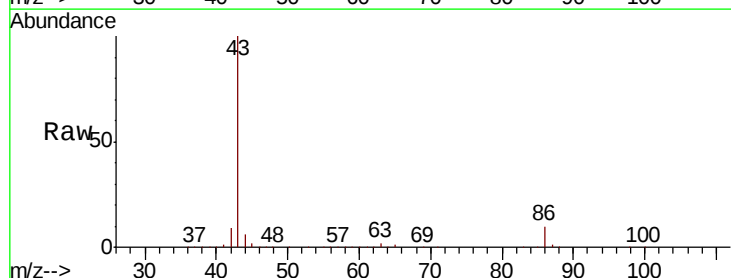
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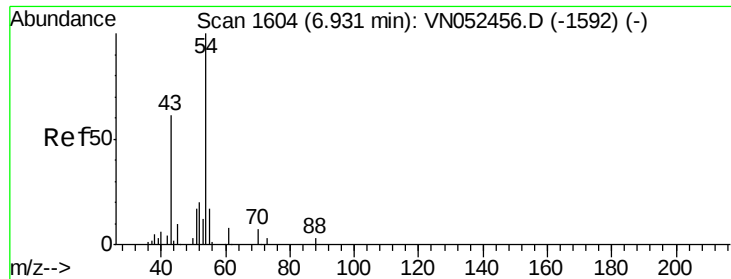
MMDadoda
12/4/2018 2:57:27 PM



#42
Vinyl Acetate
Concen: 99.467 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	43	Resp	2036223
Ion Ratio	100	Lower	Upper
43	100		
86	8.9	6.5	9.7





#43

Ethyl Acetate

Concen: 20.863 ug/l

RT: 6.93 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 43 Resp: 167850

Ion Ratio Lower Upper

43 100

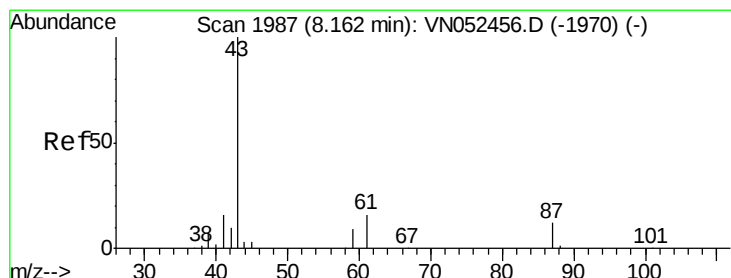
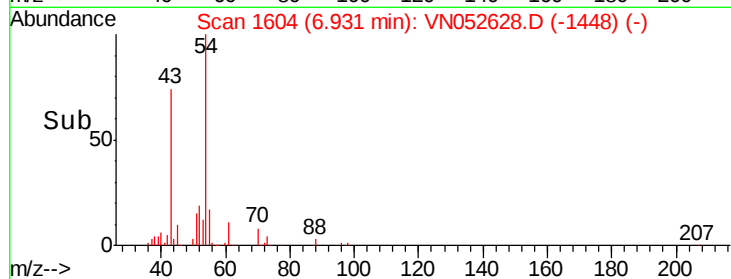
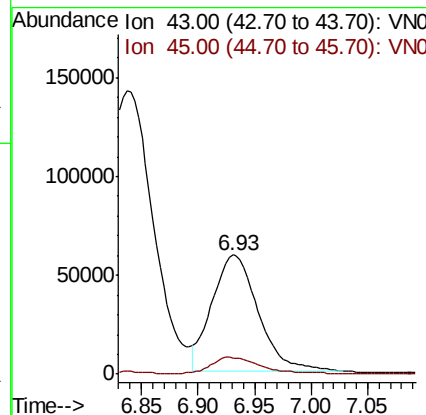
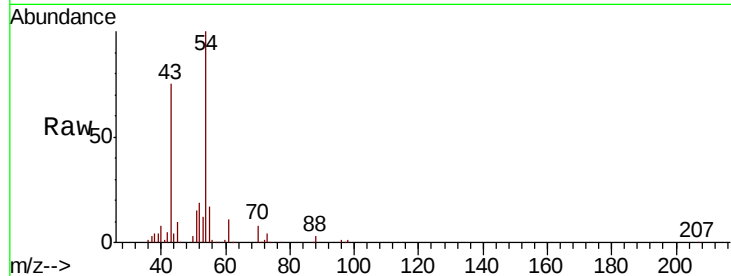
45 15.1 1.0 1.6#

Manual Integrations

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#44

Isopropyl Acetate

Concen: 24.188 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052628.D

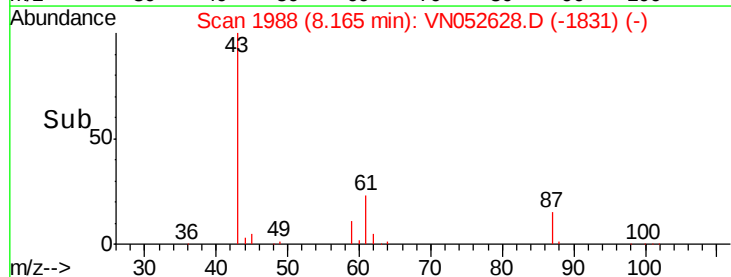
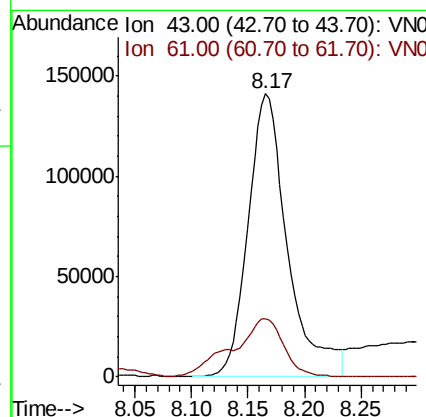
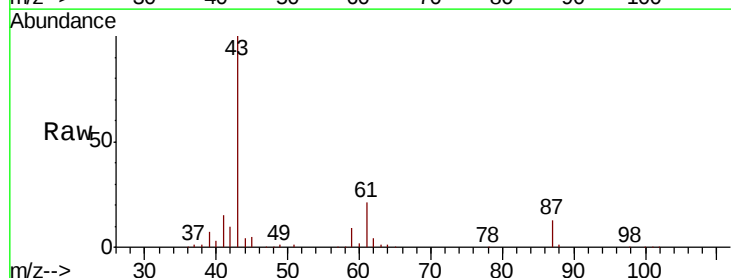
Acq: 3 Dec 2018 13:34

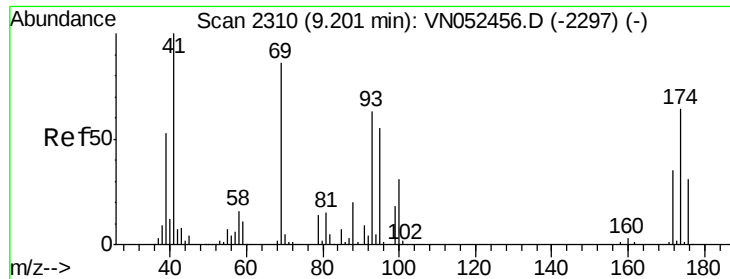
Tgt Ion: 43 Resp: 341289

Ion Ratio Lower Upper

43 100

61 18.9 16.0 24.0





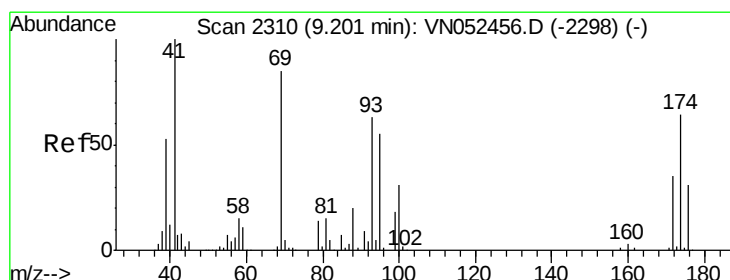
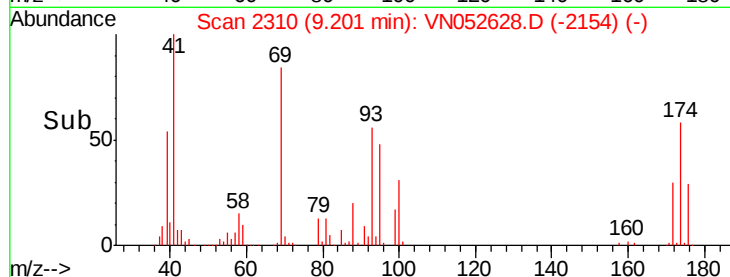
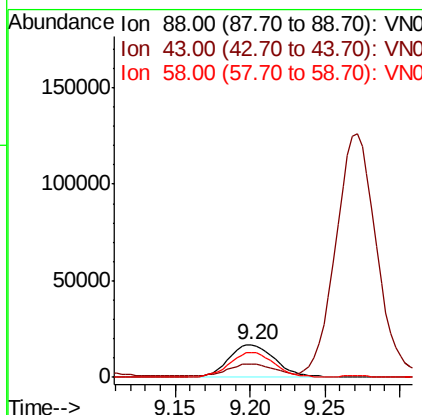
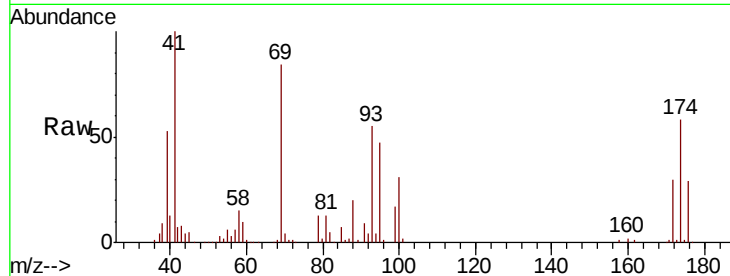
#45
 1,4-Dioxane
 Concen: 476.836 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	88	Resp	36807
Ion	Ratio	Lower	Upper
88	100		
43	36.7	29.5	44.3
58	72.8	61.5	92.3

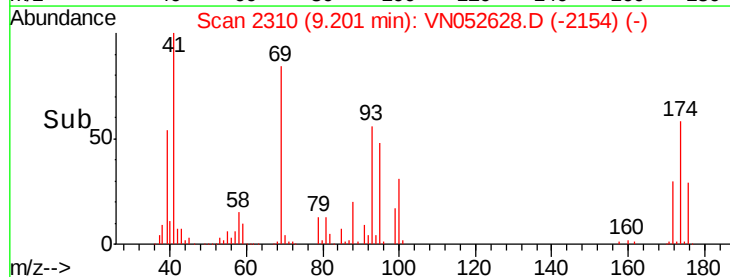
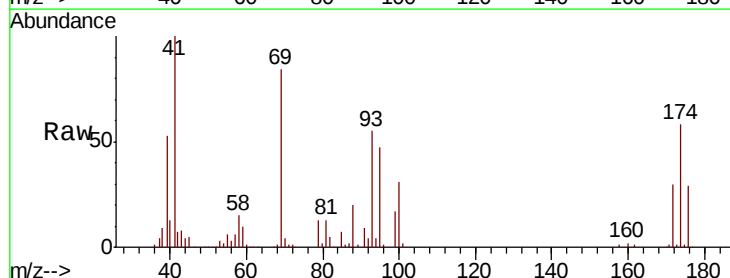
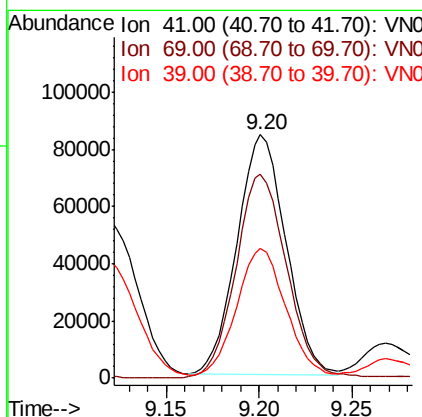
Manual Integrations
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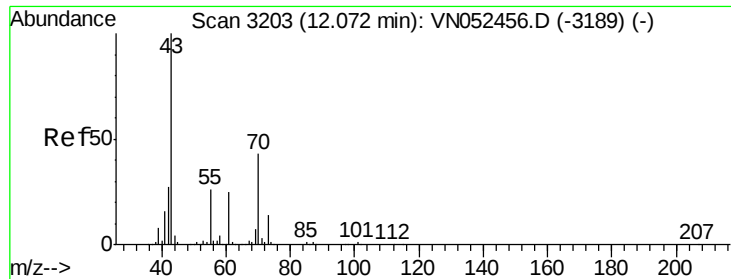
MMDadoda
 12/4/2018 2:57:27 PM



#46
 Methyl methacrylate
 Concen: 20.985 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Tgt Ion	41	Resp	153737
Ion	Ratio	Lower	Upper
41	100		
69	84.8	42.5	127.6
39	53.2	26.3	78.9





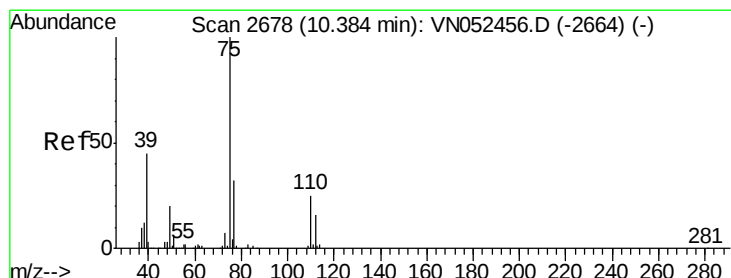
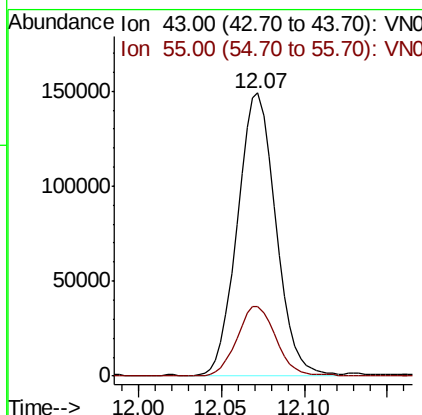
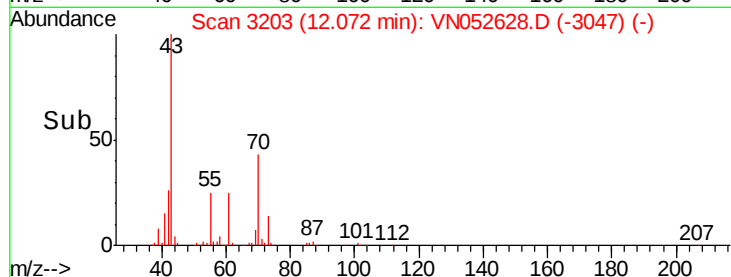
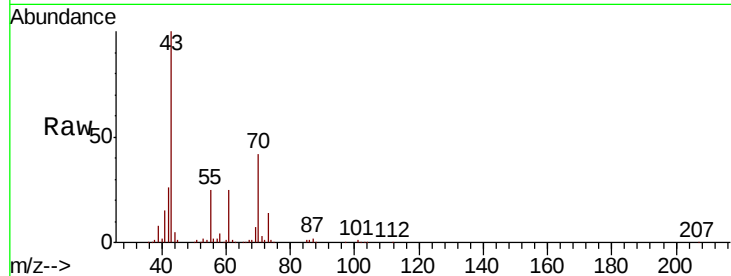
#47
n-amvl Acetate
Concen: 20.436 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 43 Resp: 239075
Ion Ratio Lower Upper
43 100
55 25.5 21.1 31.7

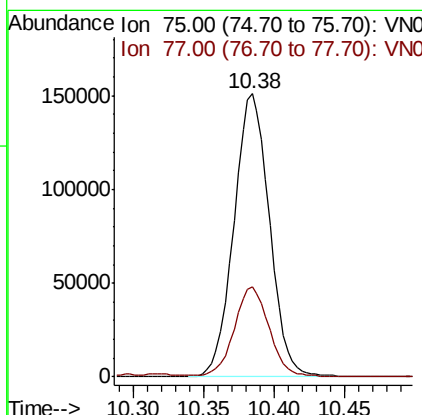
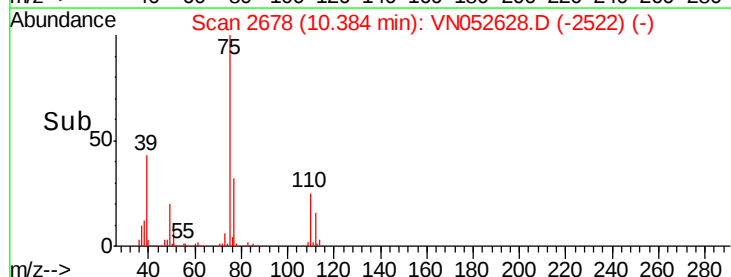
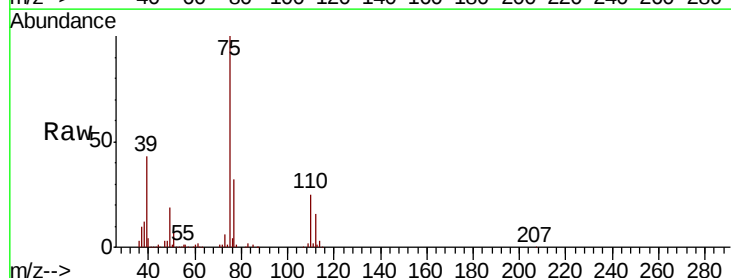
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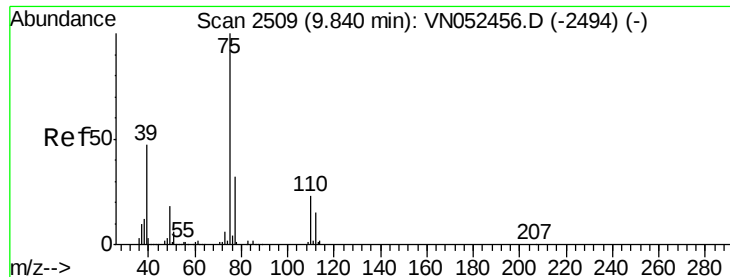
MMDadoda
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#48
t-1,3-Dichloropropene
Concen: 20.244 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion: 75 Resp: 267057
Ion Ratio Lower Upper
75 100
77 31.4 25.6 38.4





#49

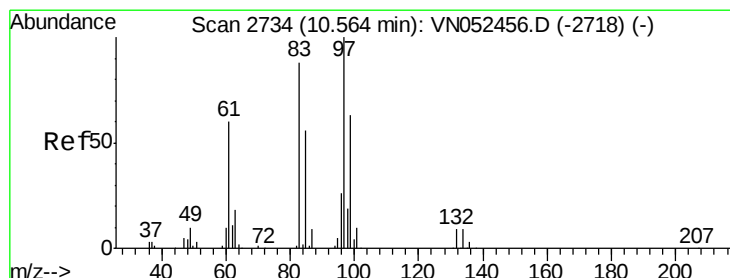
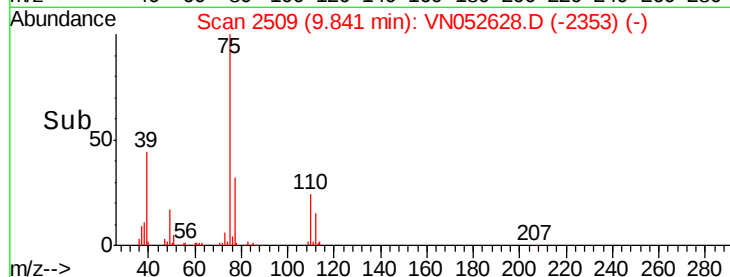
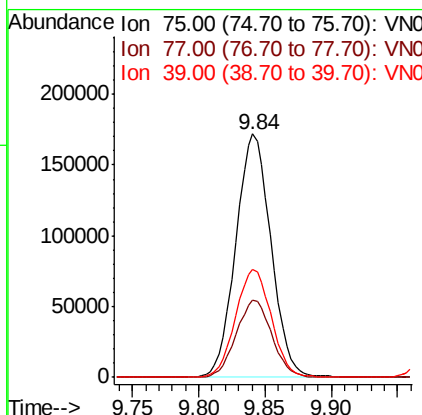
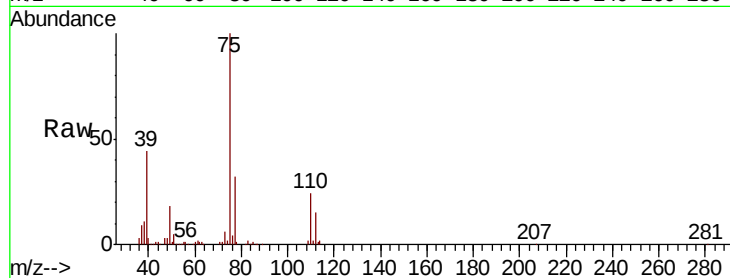
cis-1,3-Dichloropropene
Concen: 19.738 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion:	75	Resp:	317238
Ion Ratio	Lower	Upper	
75	100		
77	31.5	25.4	38.0
39	44.3	37.3	55.9

Manual Integrations
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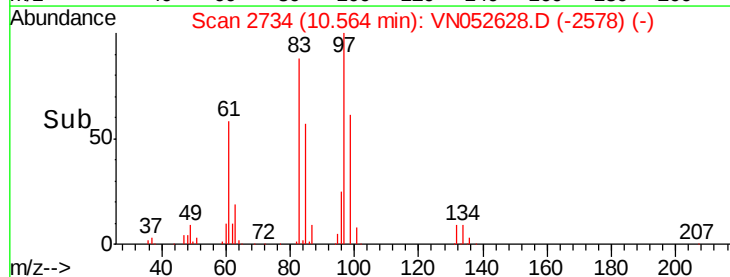
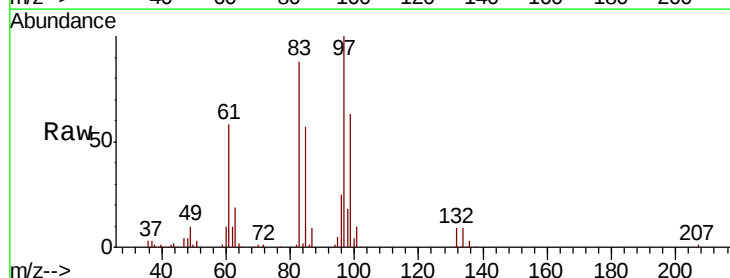
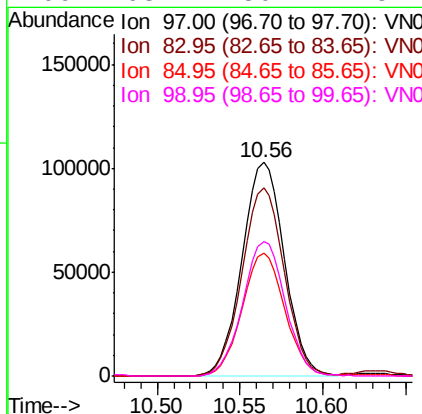
MMDadoda
12/4/2018 2:57:27 PM

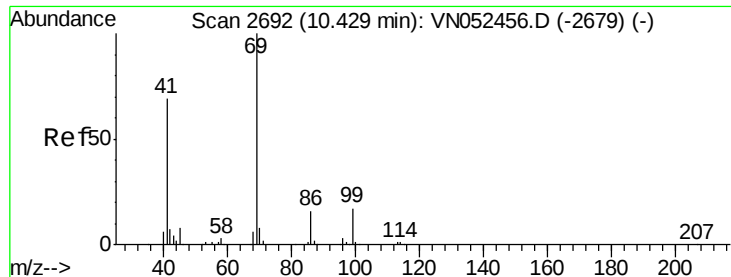


#50

1,1,2-Trichloroethane
Concen: 20.955 ug/l
RT: 10.56 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion:	97	Resp:	182921
Ion Ratio	Lower	Upper	
97	100		
83	87.9	70.4	105.6
85	57.4	45.0	67.6
99	63.1	50.2	75.2





#51

Ethyl methacrylate

Concen: 21.322 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

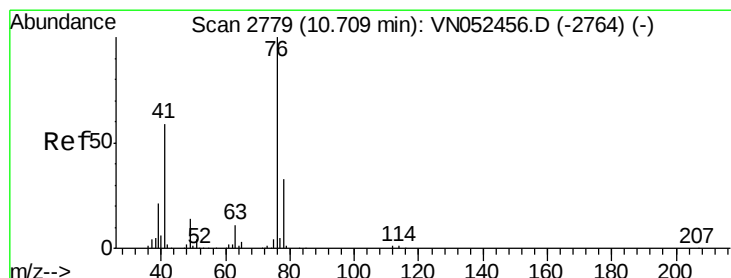
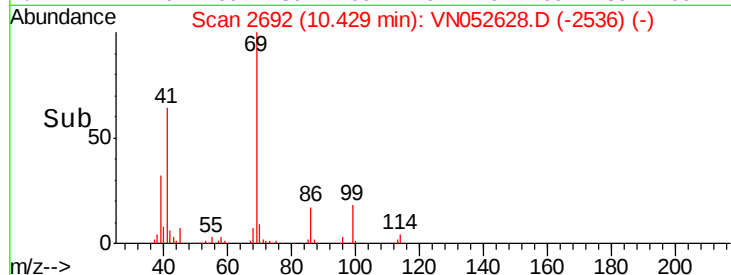
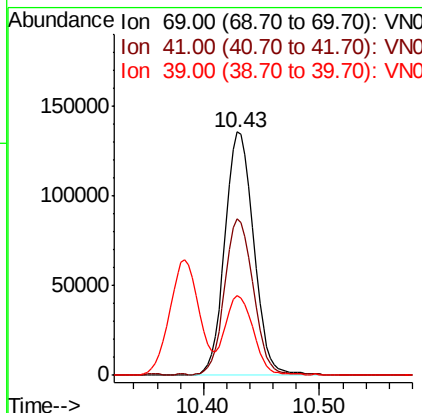
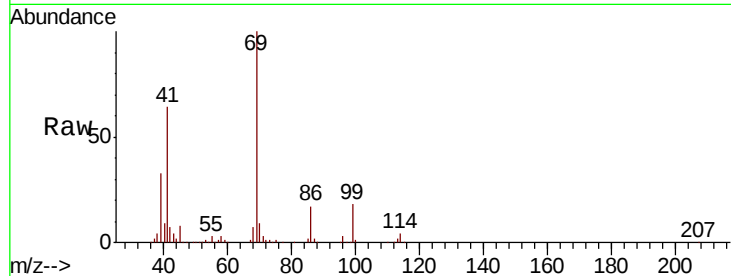
ClientSampleId :

VSTDCCC020

Tot Ion:	69	Resp:	233758
Ion	Ratio	Lower	Upper
69	100		
41	64.1	34.4	103.3
39	32.3	16.4	49.2

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 20.414 ug/l

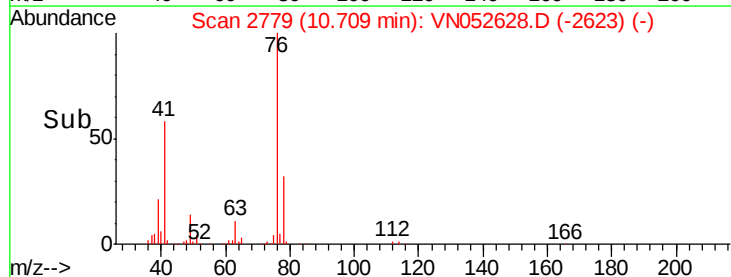
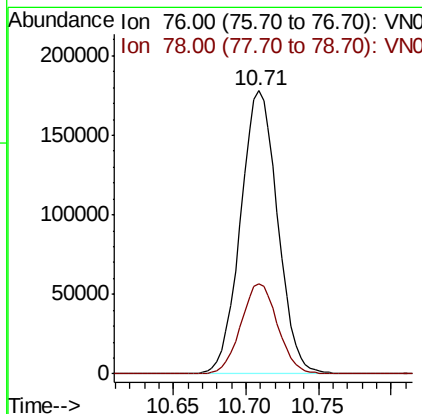
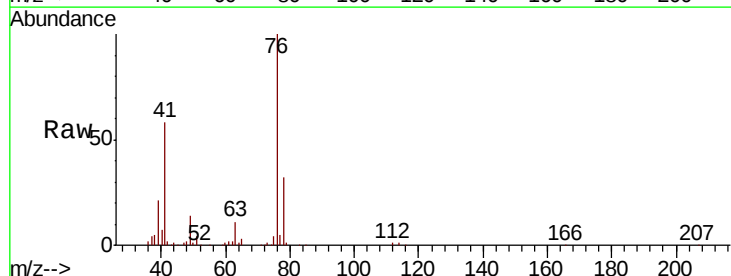
RT: 10.71 min Scan# 2779

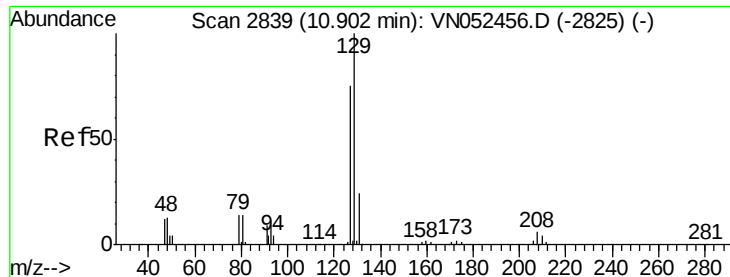
Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Tgt Ion:	76	Resp:	317184
Ion	Ratio	Lower	Upper
76	100		
78	31.7	0.0	64.8





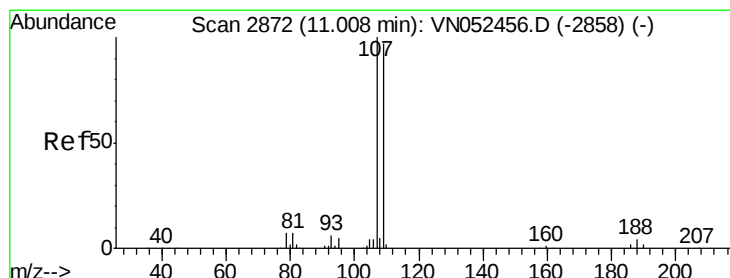
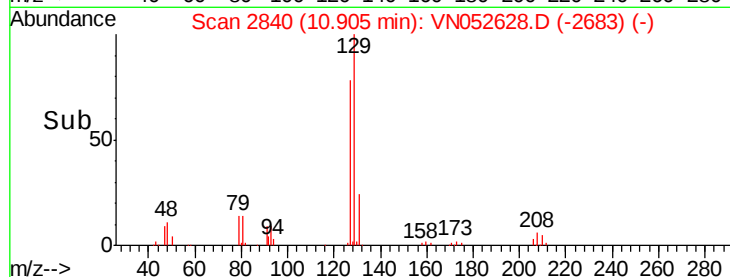
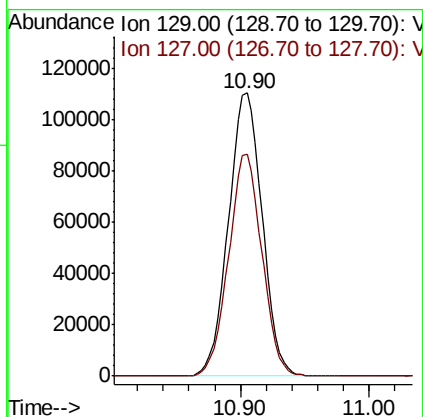
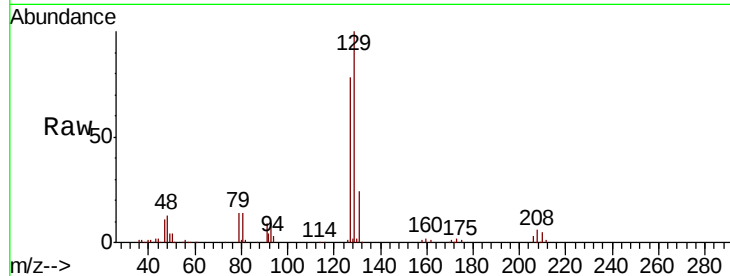
#53
 Dibromochloromethane
 Concen: 20.862 ug/l
 RT: 10.90 min Scan# 2840
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ion	Ratio	Lower	Upper
200493	129	100		
	127	77.5	37.6	112.8

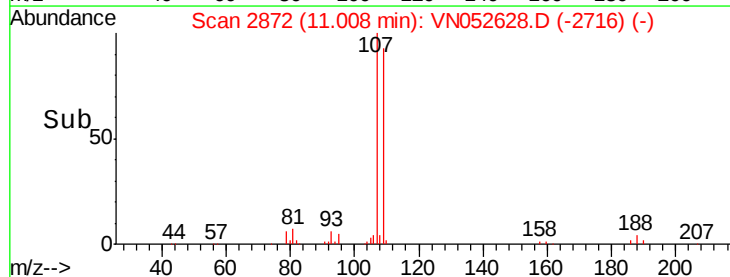
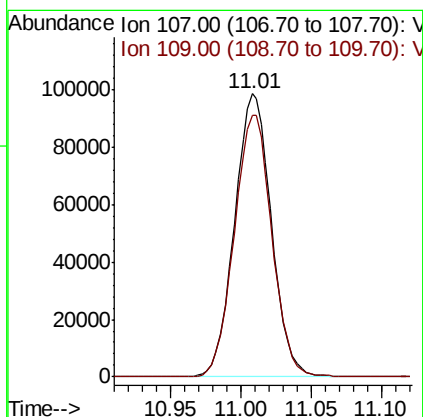
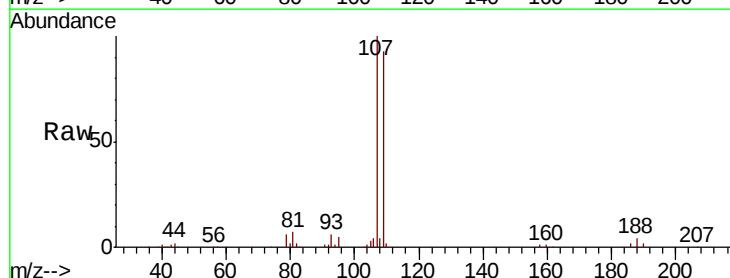
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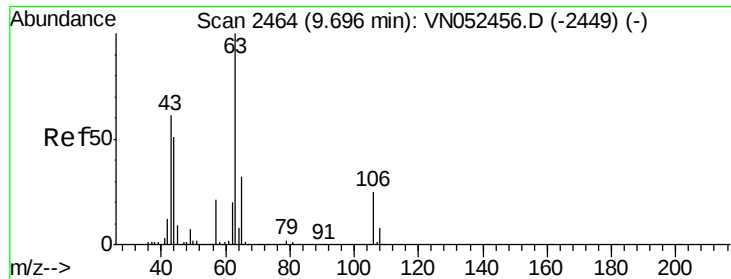
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#54
 1,2-Dibromoethane
 Concen: 21.055 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Tgt Ion	Ion	Ratio	Lower	Upper
179591	107	100		
	109	94.5	77.1	115.7





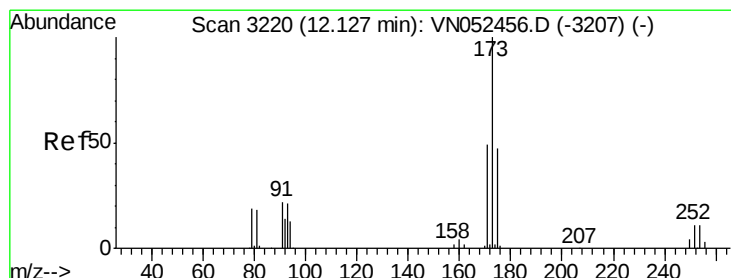
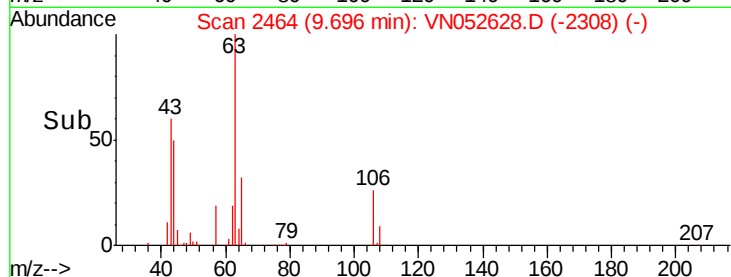
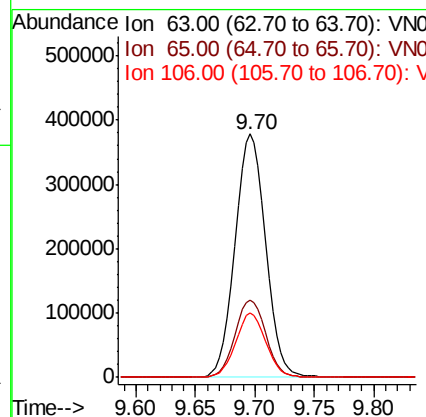
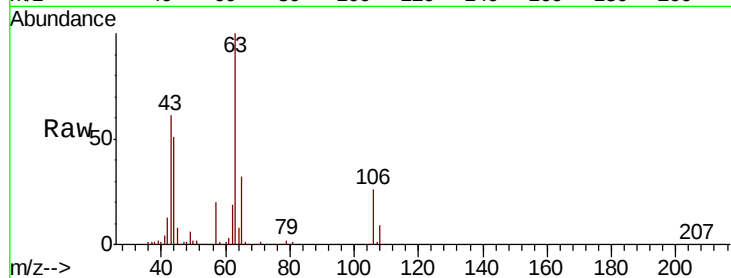
#55
2-Chloroethyl vinyl ether
Concen: 105.306 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.4	38.2
106	26.1	20.4	30.6

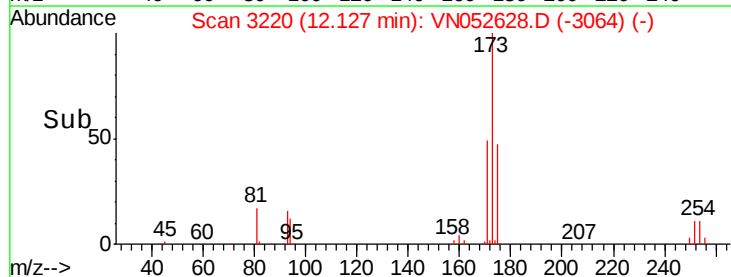
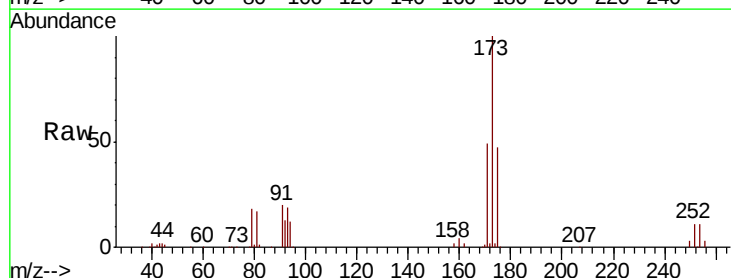
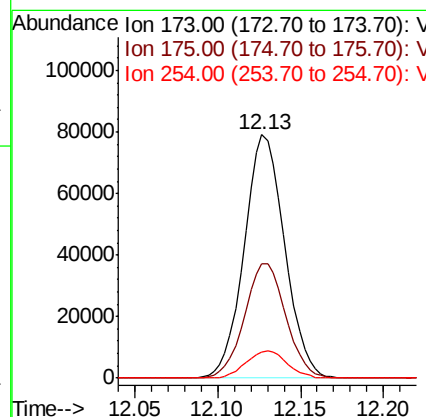
Manual Integrations
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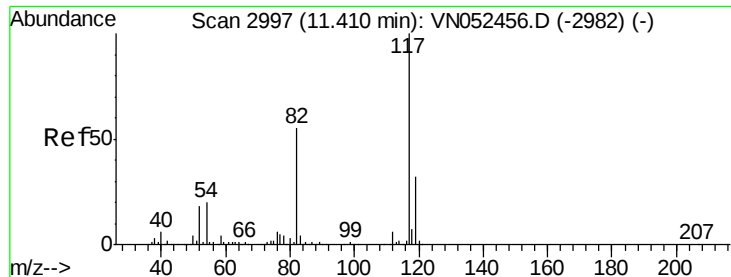
MMDadoda
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#56
Bromoform
Concen: 21.338 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.0	38.7	58.1
254	11.2	8.4	12.6





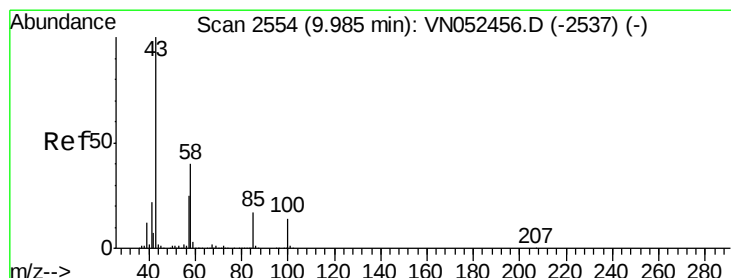
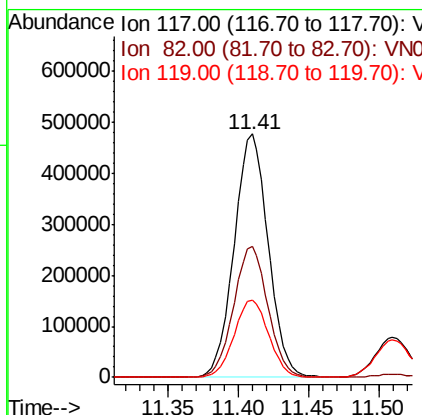
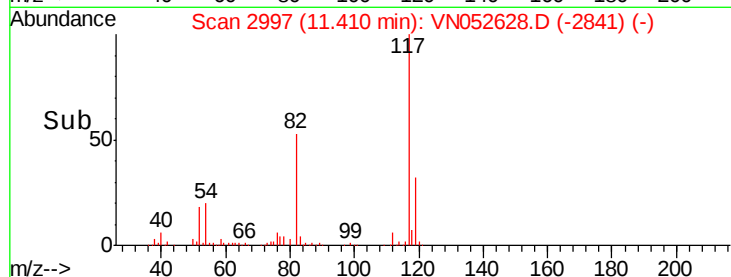
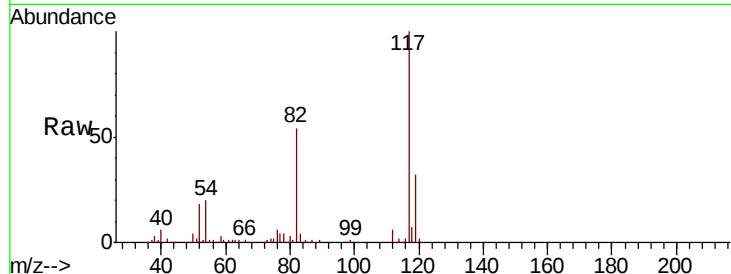
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion:	117	Resp:	808805
Ion Ratio	Lower	Upper	
117	100		
82	54.1	44.2	66.2
119	32.2	25.4	38.2

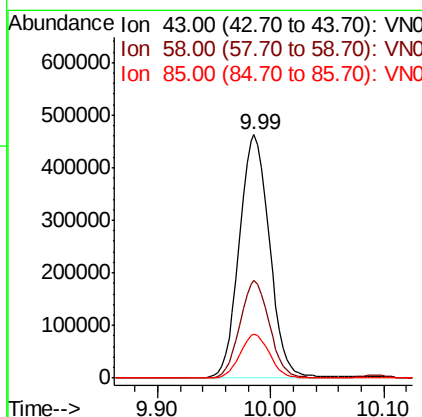
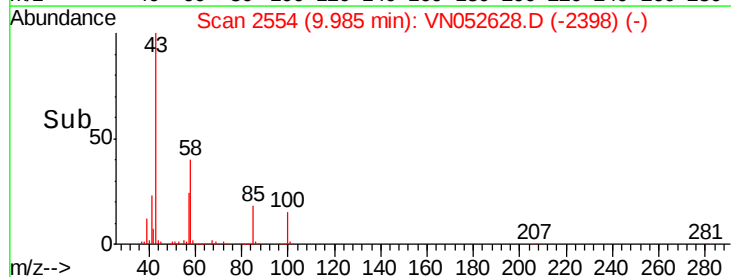
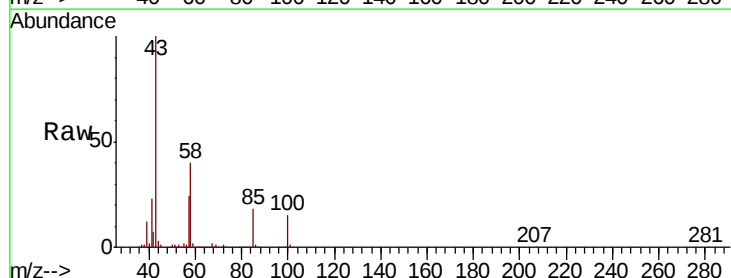
Manual Integrations
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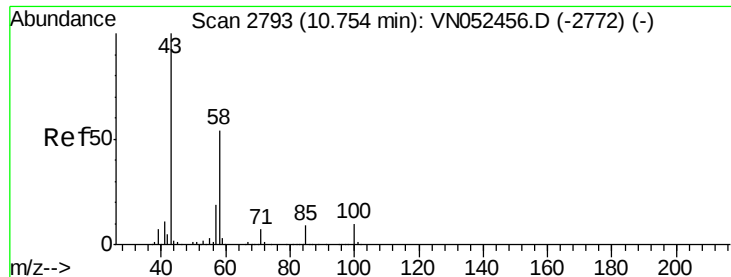
MMDadoda
12/4/2018 2:57:27 PM



#58
4-Methyl-2-Pentanone
Concen: 109.509 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion:	43	Resp:	858673
Ion Ratio	Lower	Upper	
43	100		
58	39.4	31.6	47.4
85	17.7	13.3	19.9





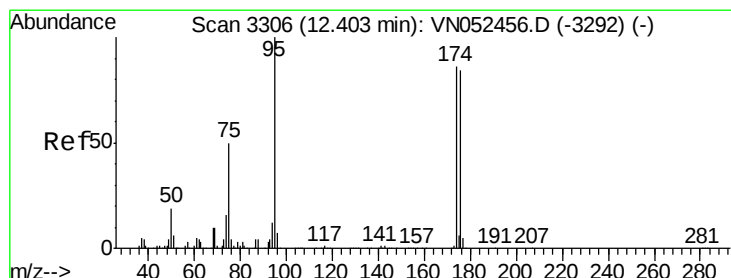
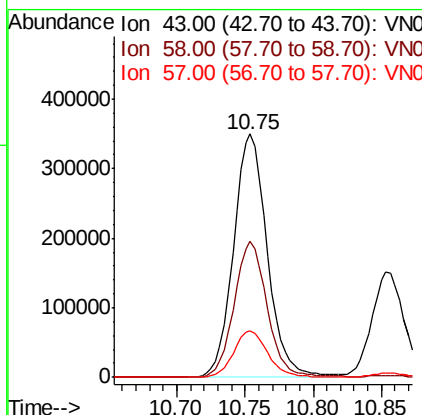
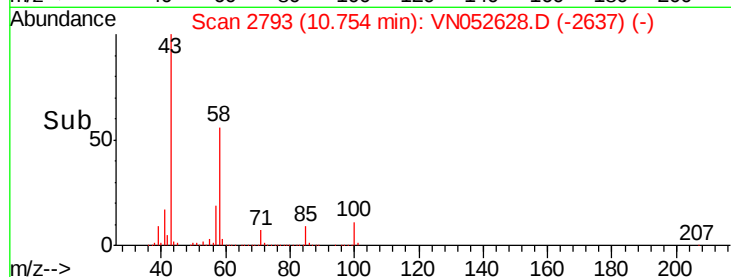
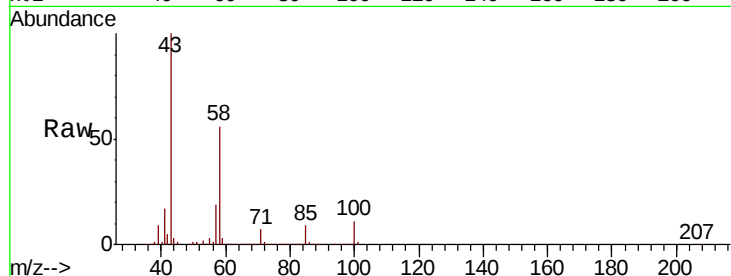
#59
2-Hexanone
Concen: 111.400 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.2	43.2	64.8
57	19.6	14.9	22.3

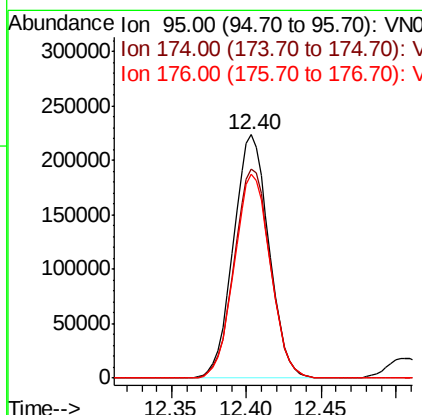
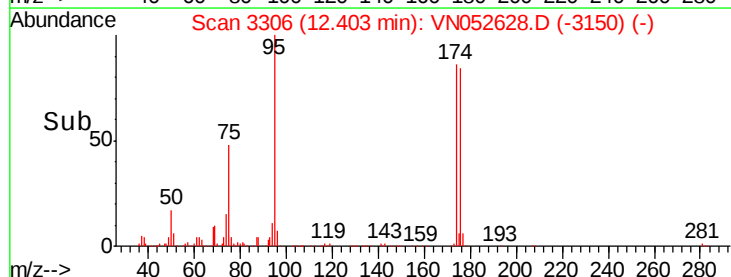
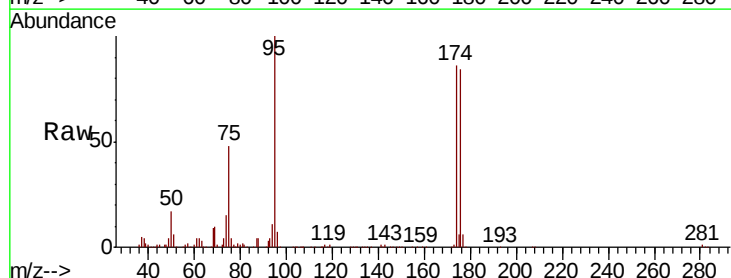
Manual Integrations
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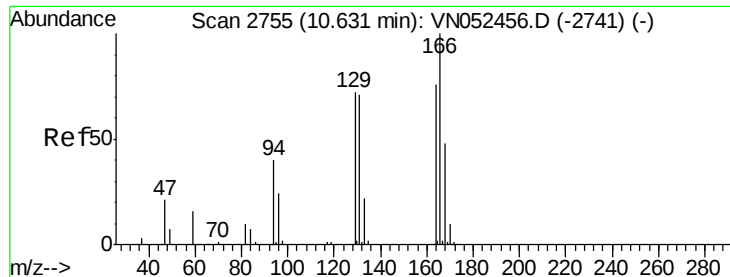
MMDadoda
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#60
4-Bromofluorobenzene
Concen: 111.400 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.7	67.9	101.9
176	85.4	66.4	99.6





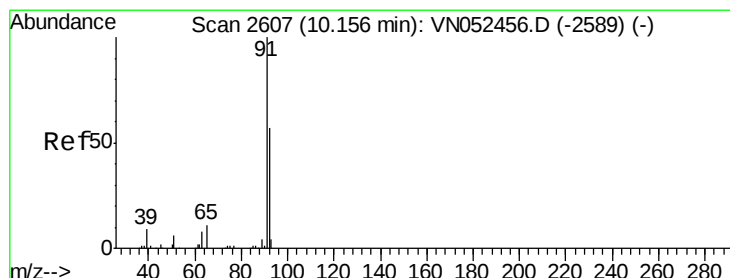
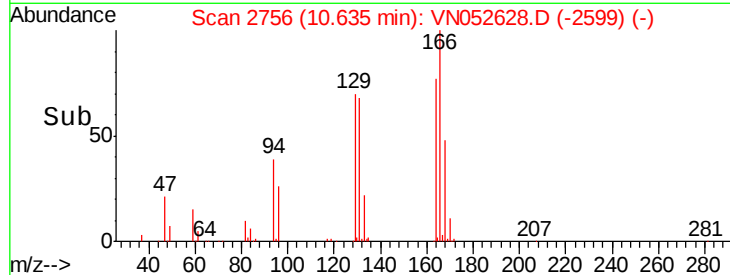
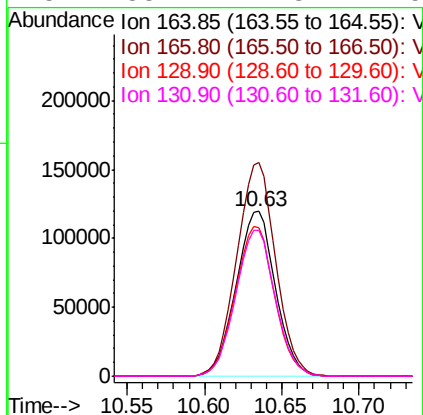
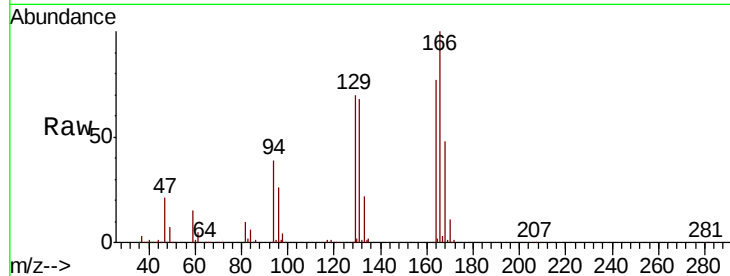
#61
Tetrachloroethene
Concen: 21.211 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
164	100		
166	129.7	104.6	157.0
129	90.4	75.3	112.9
131	88.4	74.3	111.5

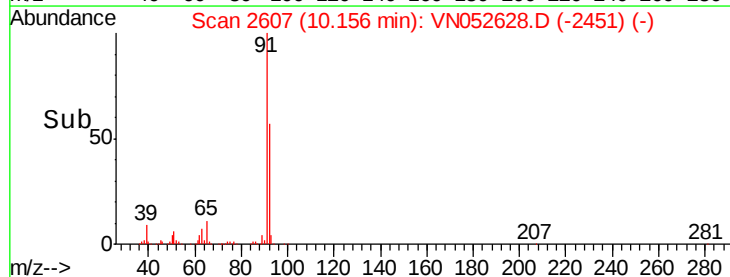
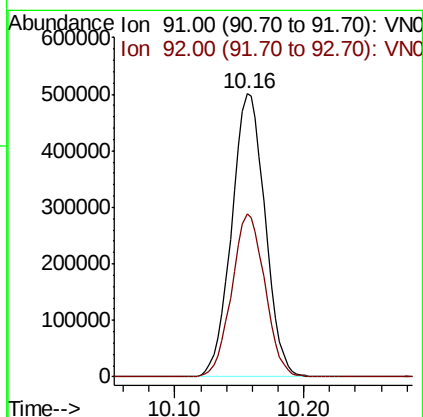
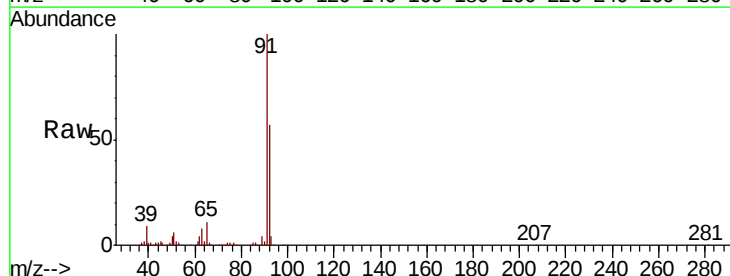
Manual Integrations
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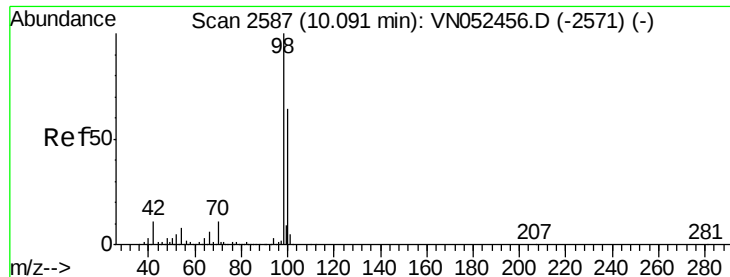
MMDadoda
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#62
Toluene
Concen: 20.245 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.8	45.4	68.2





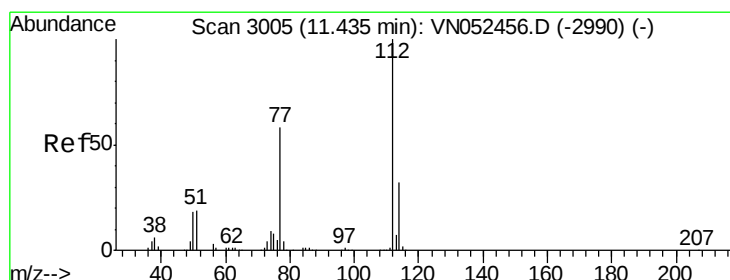
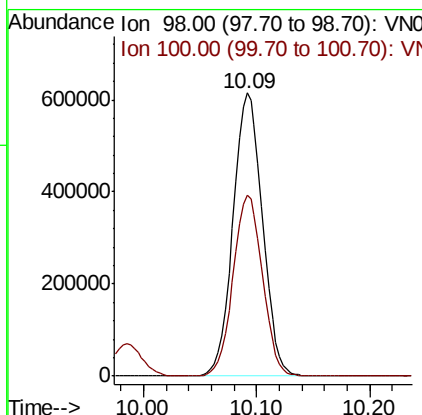
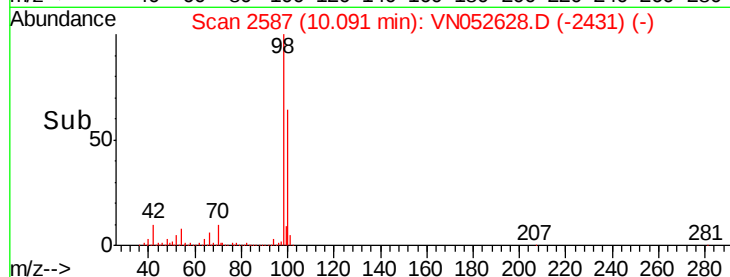
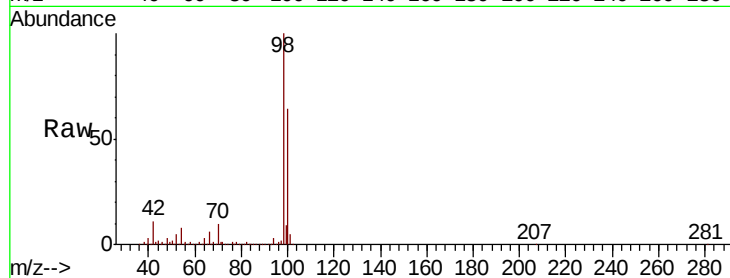
#63
Toluene-d8
Concen: 20.245 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 98 Resp: 1112239
Ion Ratio Lower Upper
98 100
100 63.7 51.1 76.7

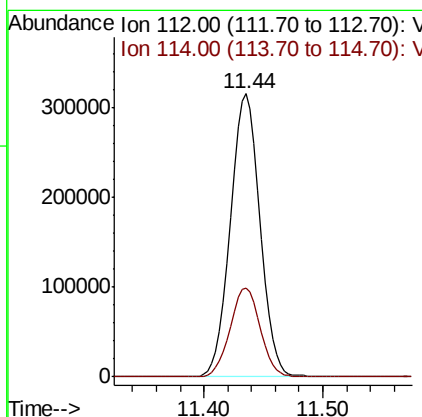
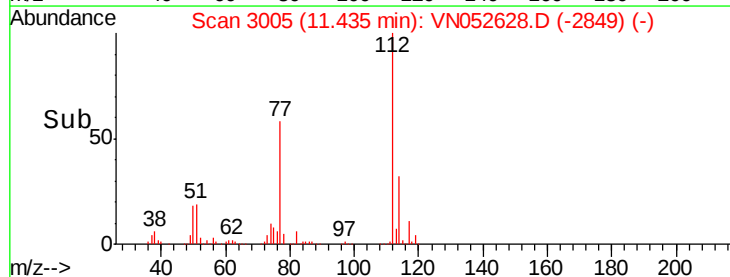
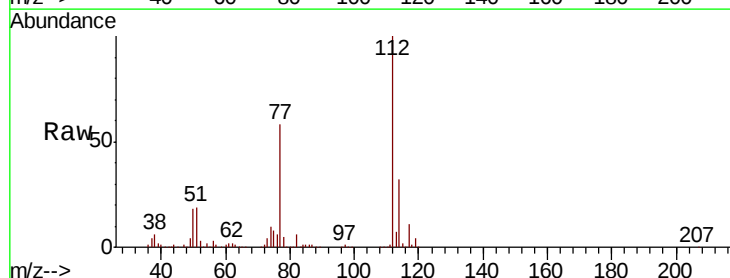
Manual Integrations
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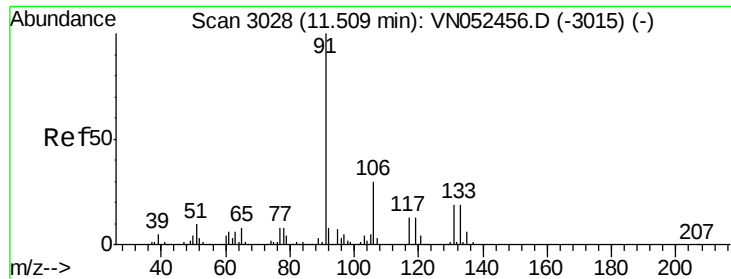
MMDadoda
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#64
Chlorobenzene
Concen: 20.005 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion: 112 Resp: 544422
Ion Ratio Lower Upper
112 100
114 31.5 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 20.367 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

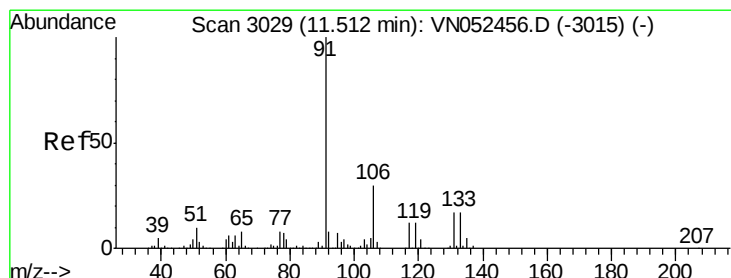
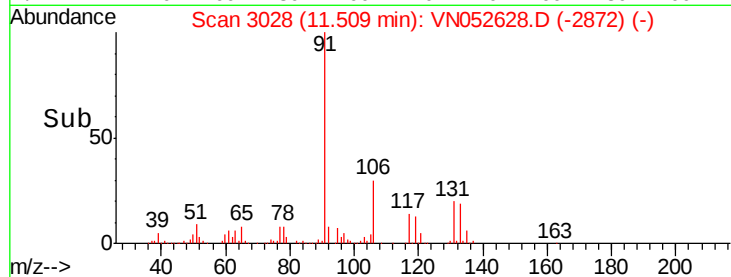
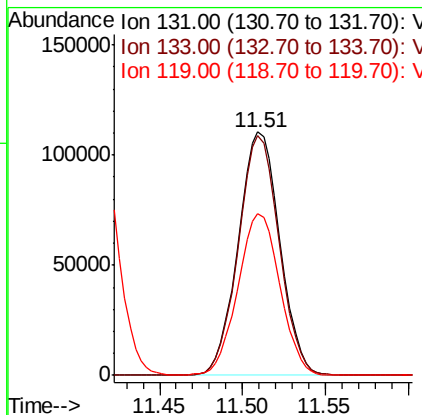
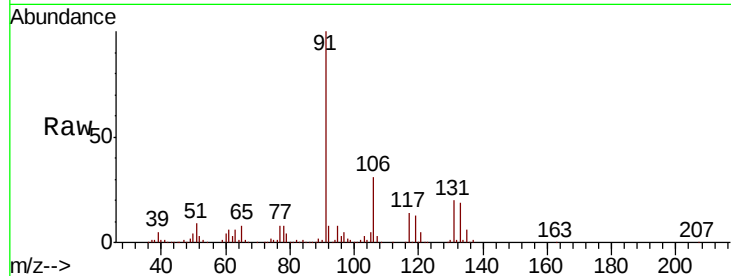
ClientSampleId :

VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
131	100	192399		
133	96.8	0.0	193.4	
119	67.2	0.0	133.0	

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#66

Ethyl Benzene

Concen: 19.909 ug/l

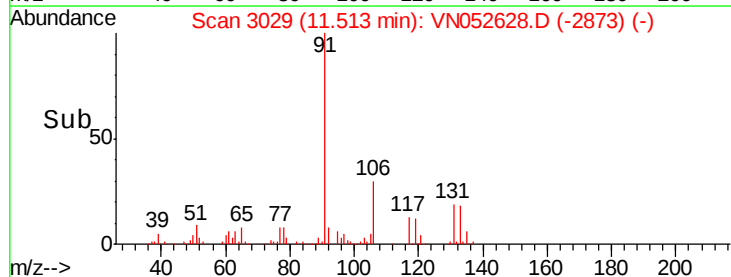
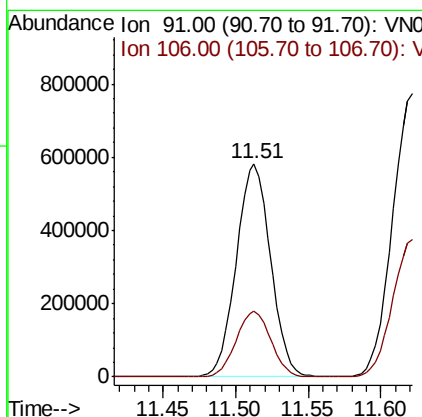
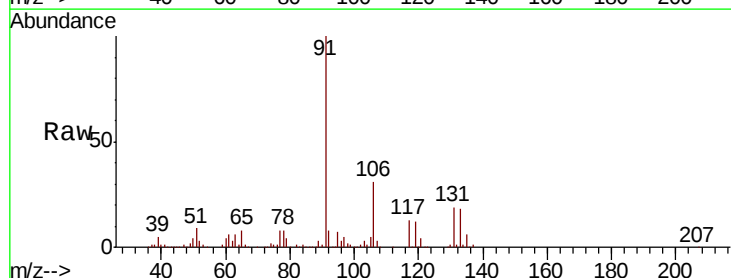
RT: 11.51 min Scan# 3029

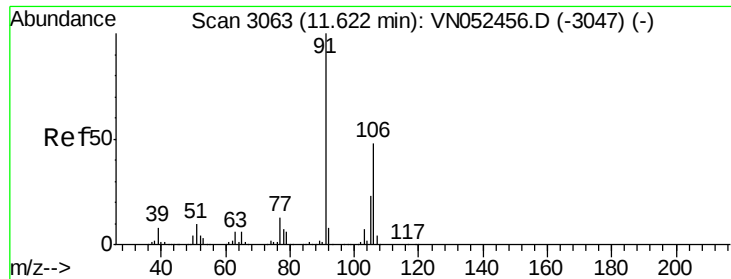
Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	956711		
106	30.7	24.3	36.5	





#67

m/p-Xylenes

Concen: 40.333 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:106 Resp: 722085

Ion Ratio Lower Upper

106 100

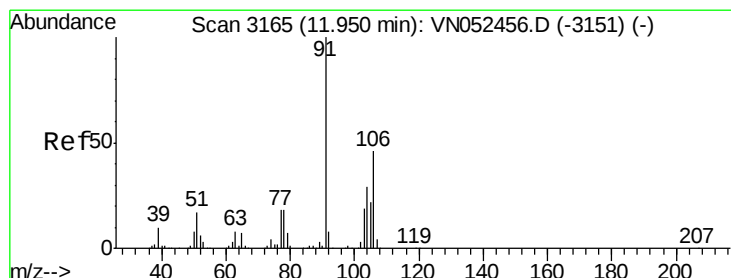
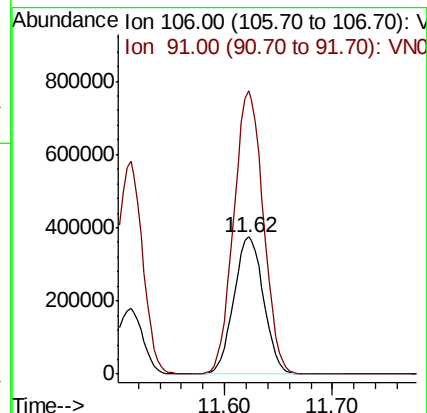
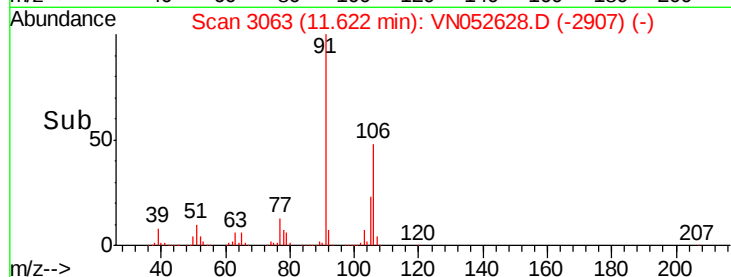
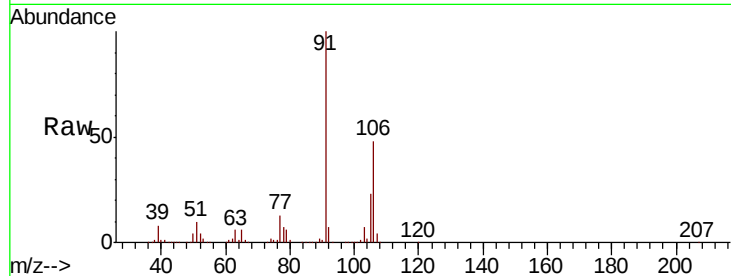
91 205.4 163.9 245.9

Manual Integrations

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#68

o-Xylene

Concen: 20.524 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN052628.D

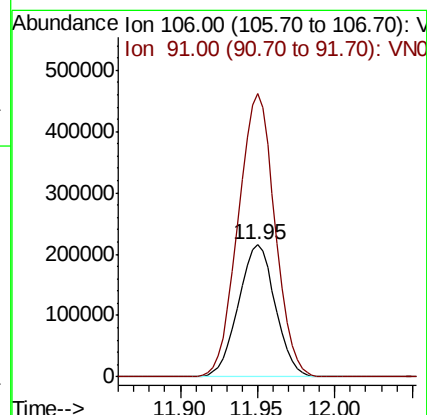
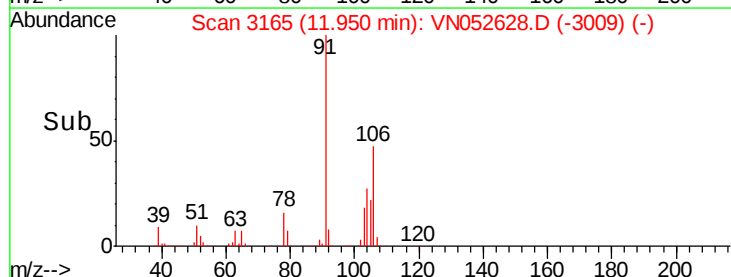
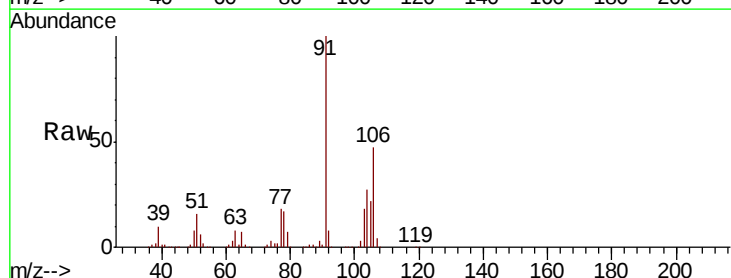
Acq: 3 Dec 2018 13:34

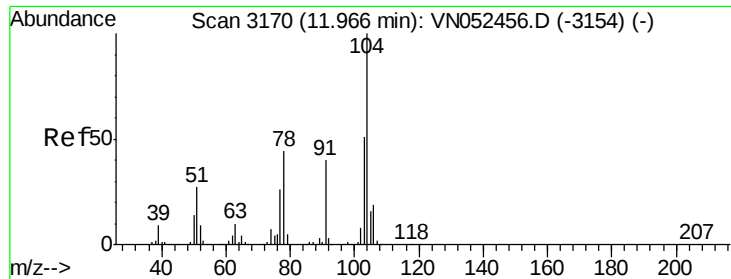
Tgt Ion:106 Resp: 356628

Ion Ratio Lower Upper

106 100

91 213.5 107.8 323.4





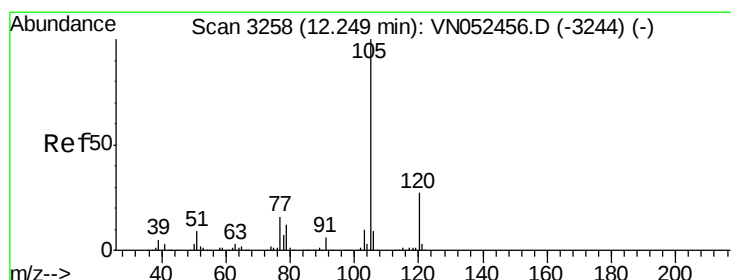
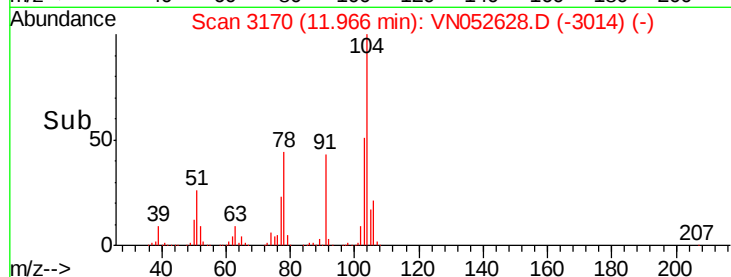
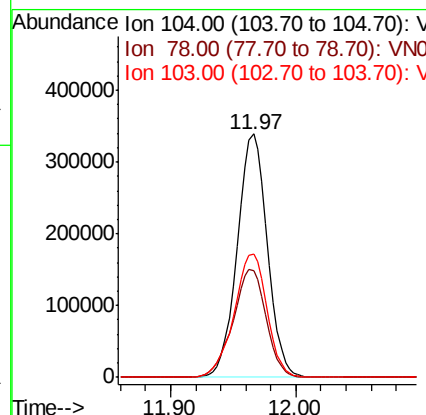
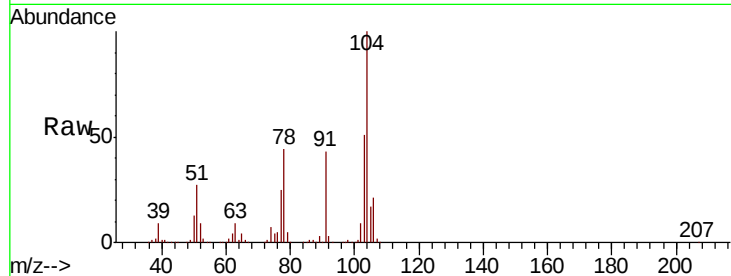
#69
Stvrene
Concen: 20.098 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.3	58.9
103	55.5	44.6	66.8

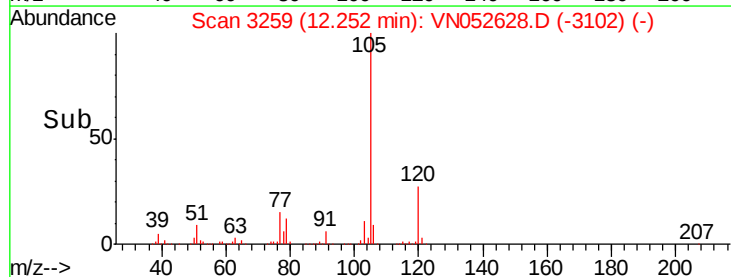
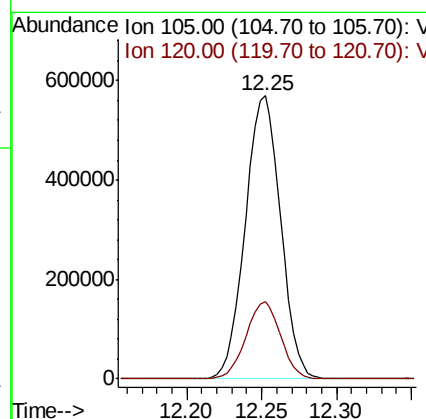
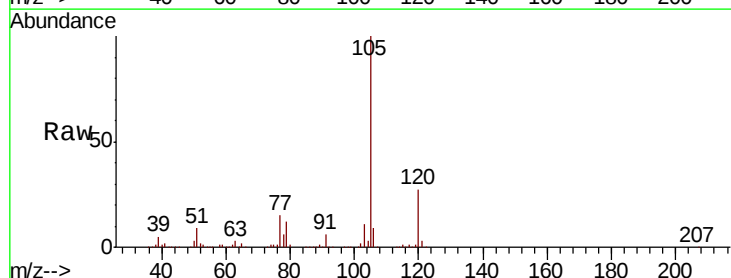
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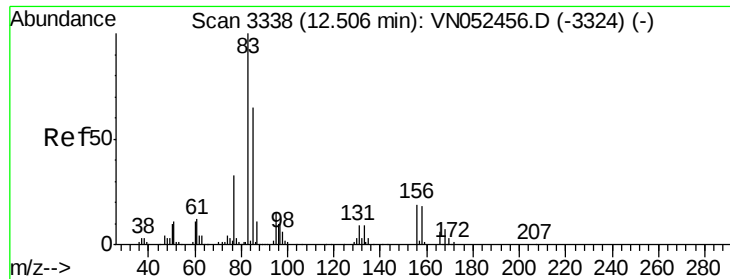
MMDadoda
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#70
Isopropylbenzene
Concen: 20.262 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	18.6	34.6





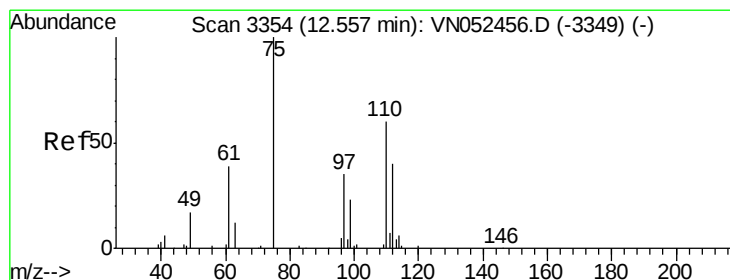
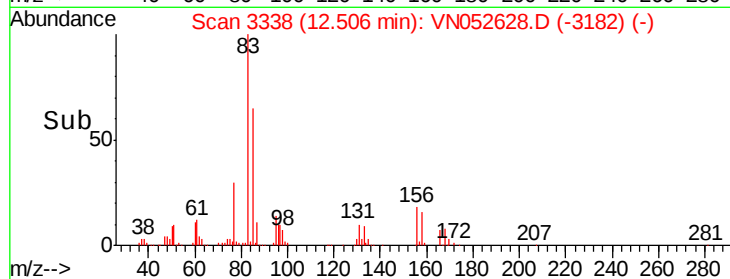
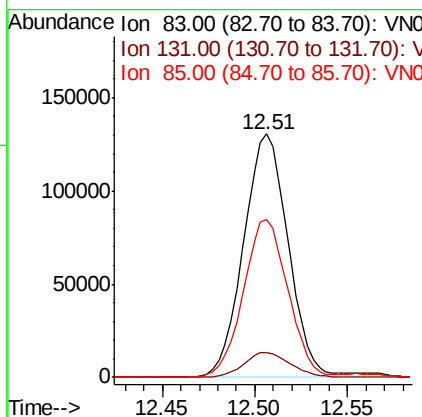
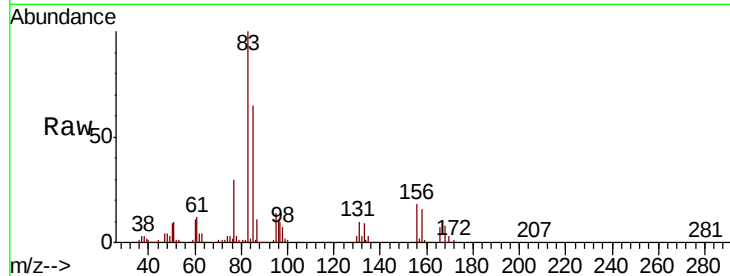
#71
 1,1,2,2-Tetrachloroethane
 Concen: 21.640 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.7	4.9	14.6
85	65.1	32.2	96.6

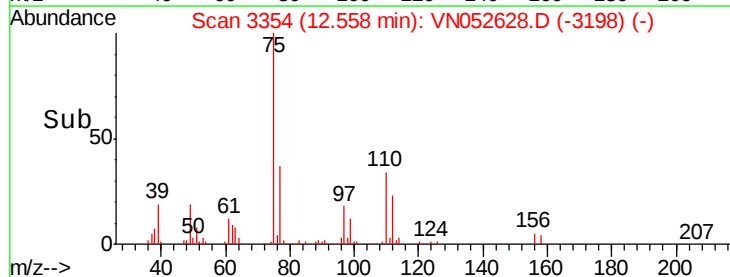
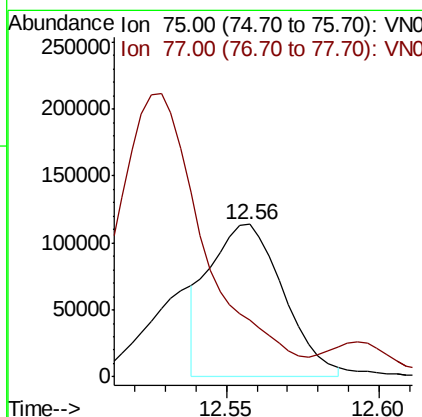
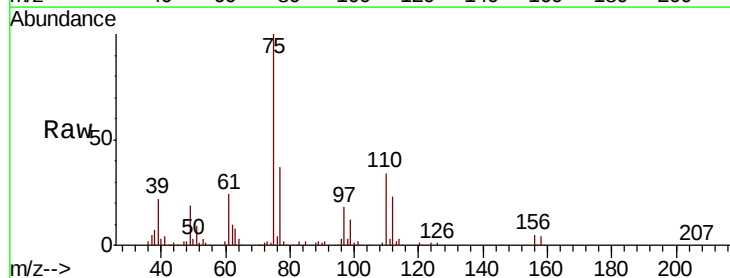
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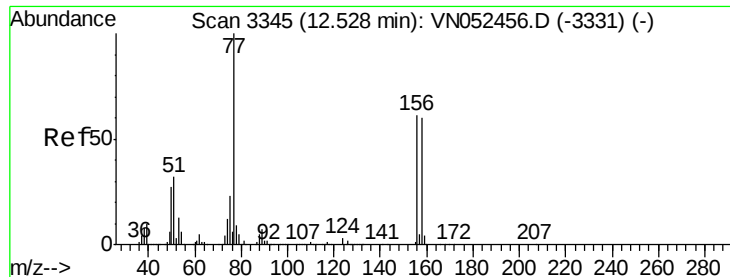
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#72
 1,2,3-Trichloropropane
 Concen: 22.234 ug/l m
 RT: 12.56 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
75	100		
77	221.8	0.0	514.8





#73

Bromobenzene

Concen: 20.584 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

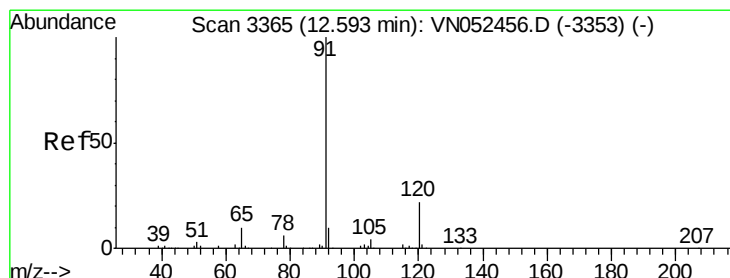
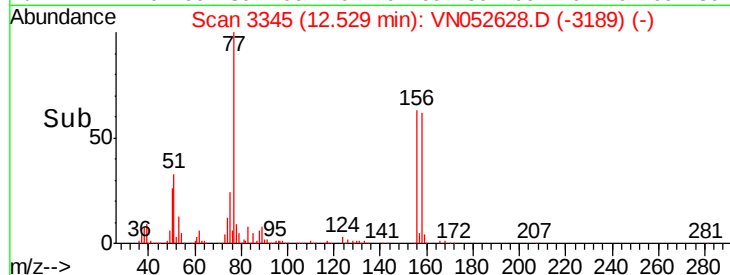
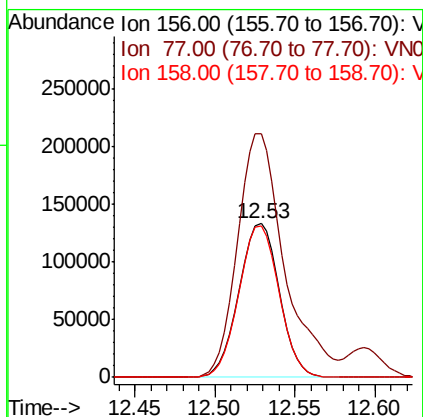
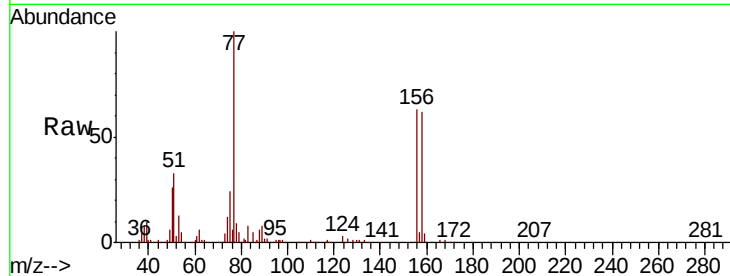
ClientSampleId :

VSTDCCC020

Tot Ion:	156	Resp:	230172
Ion Ratio	Lower	Upper	
156	100		
77	185.0	0.0	382.6
158	97.9	0.0	196.8

Manual Integrations
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#74

n-propylbenzene

Concen: 19.595 ug/l

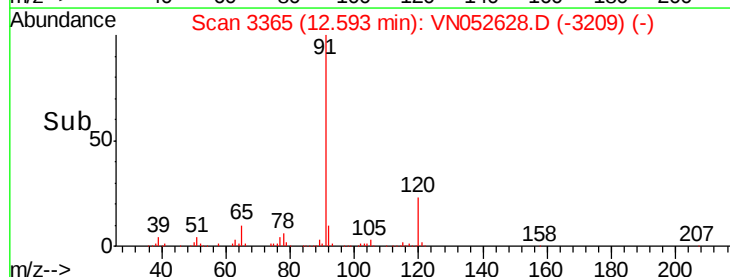
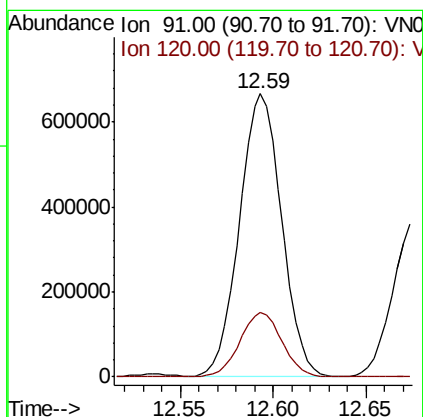
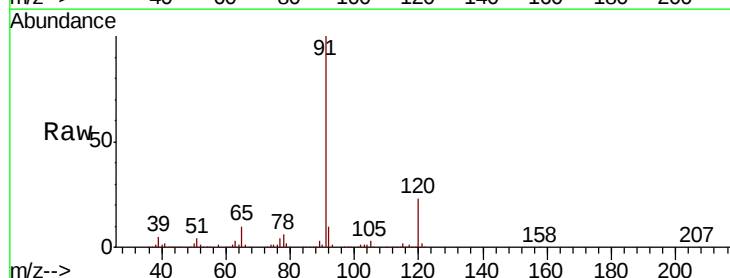
RT: 12.59 min Scan# 3365

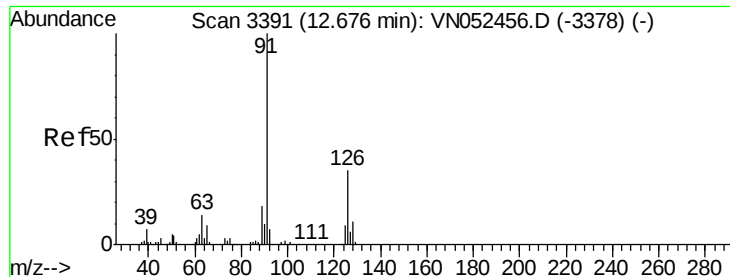
Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Tgt Ion:	91	Resp:	1055557
Ion Ratio	Lower	Upper	
91	100		
120	22.7	0.0	44.6





#75

2-Chlorotoluene

Concen: 20.203 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 91 Resp: 631720

Ion Ratio Lower Upper

91 100

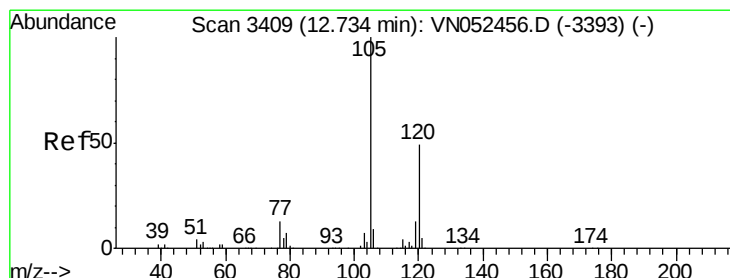
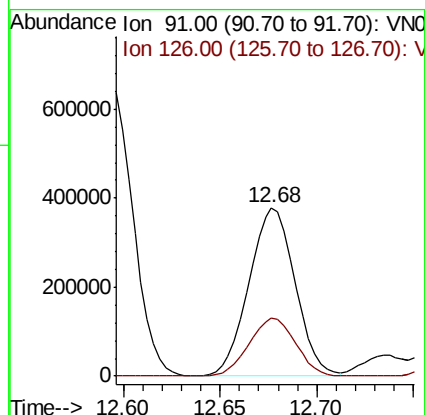
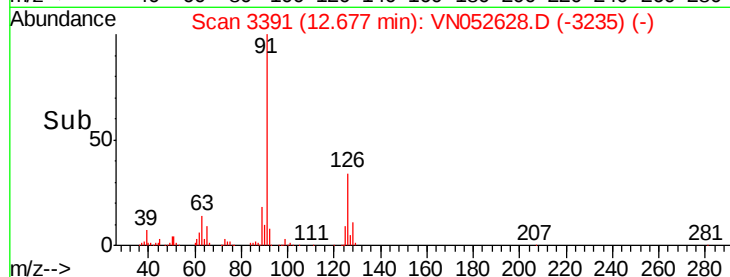
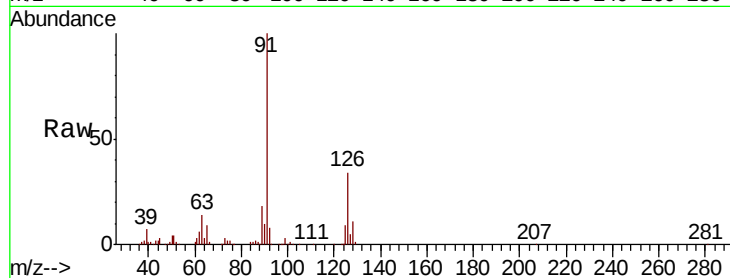
126 34.6 0.0 68.4

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#76

1,3,5-Trimethylbenzene

Concen: 20.365 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052628.D

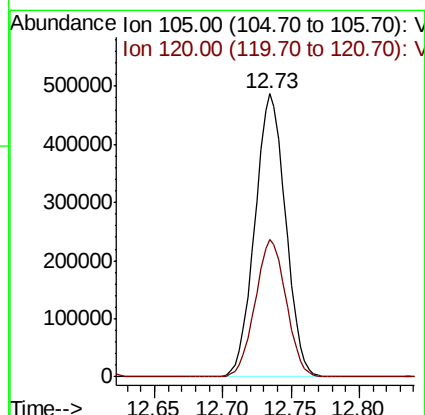
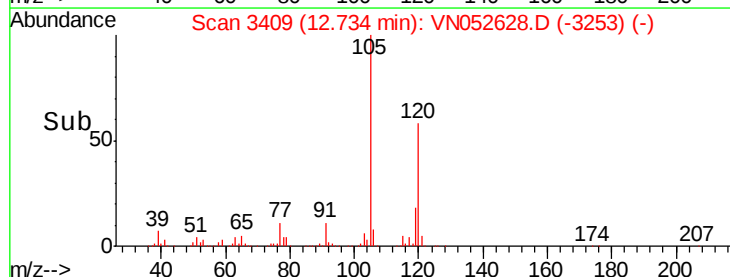
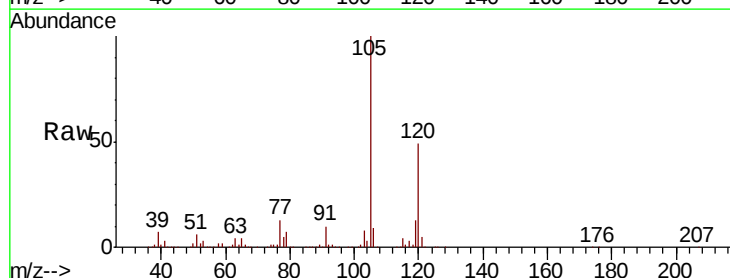
Acq: 3 Dec 2018 13:34

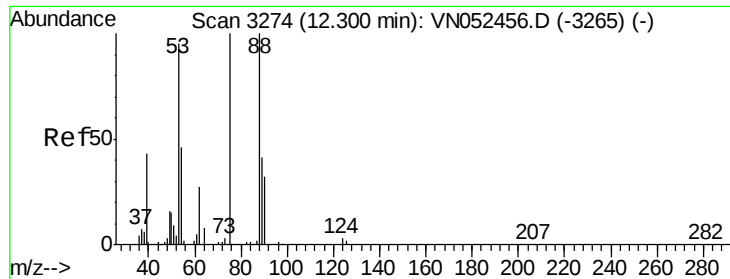
Tgt Ion: 105 Resp: 760486

Ion Ratio Lower Upper

105 100

120 48.9 0.0 97.4





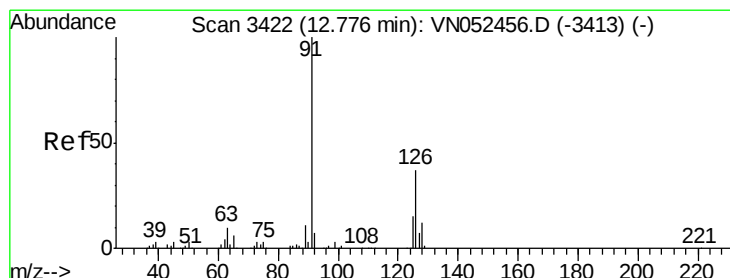
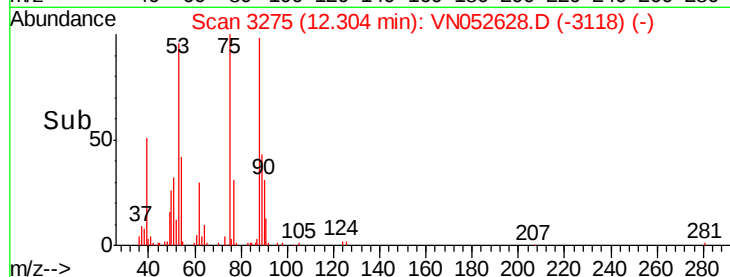
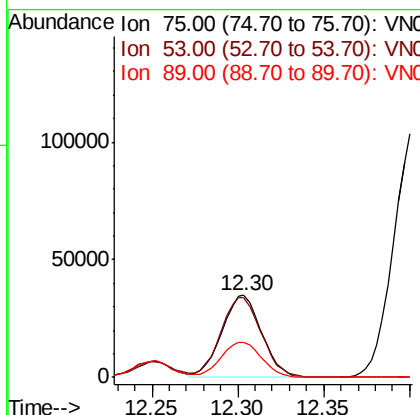
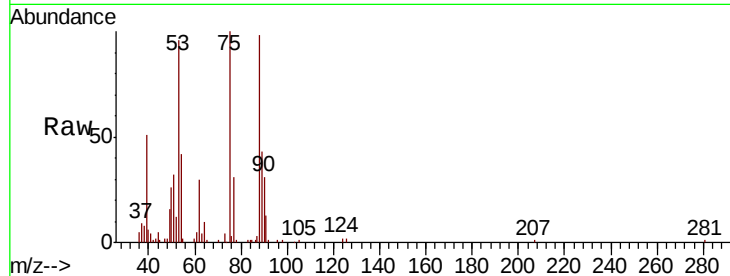
#77
t-1,4-Dichloro-2-butene
Concen: 20.713 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	96.4	48.5	145.6
89	42.8	21.7	65.1

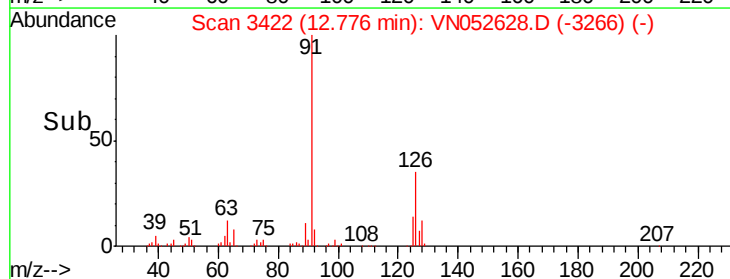
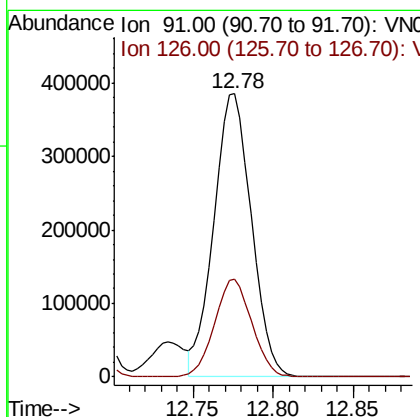
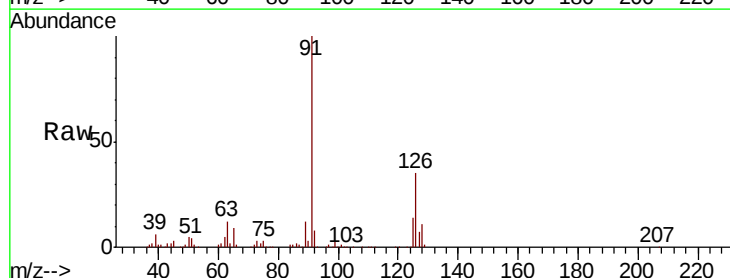
Manual Integrations
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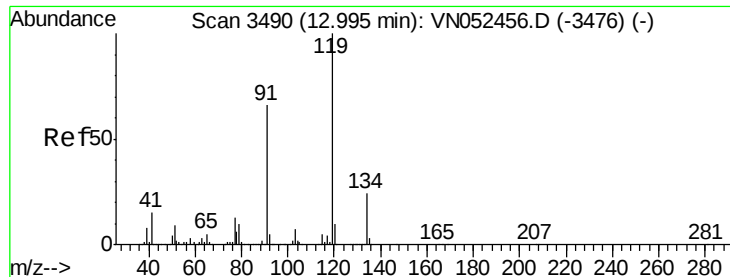
MMDadoda
12/4/2018 2:57:27 PM



#78
4-Chlorotoluene
Concen: 19.880 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.1	0.0	68.2





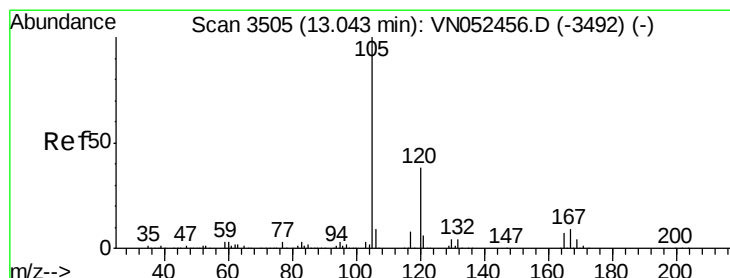
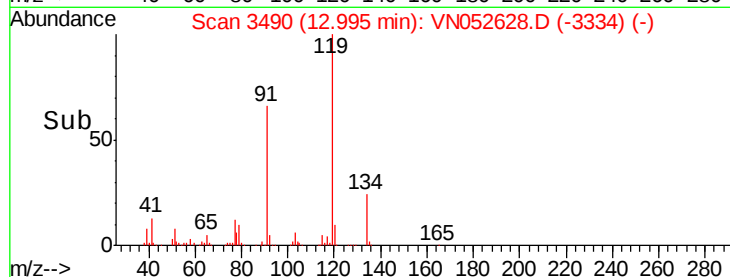
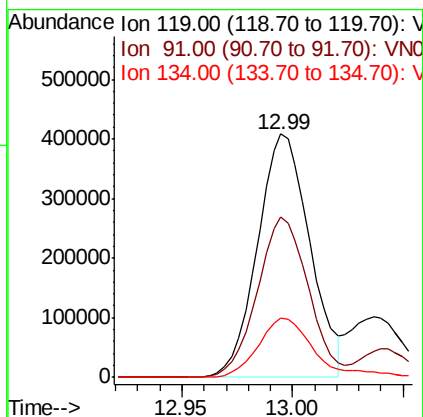
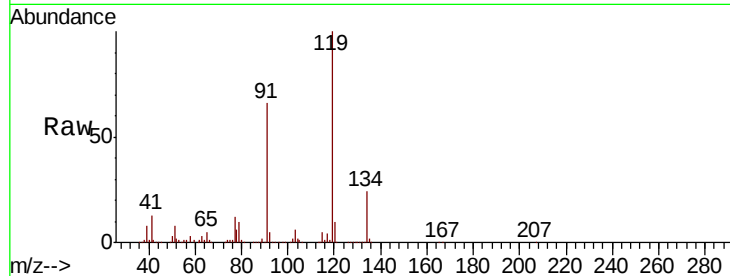
#79
tert-butylbenzene
Concen: 20.646 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	671433		
91	64.2	0.0	129.8	
134	24.5	0.0	52.2	

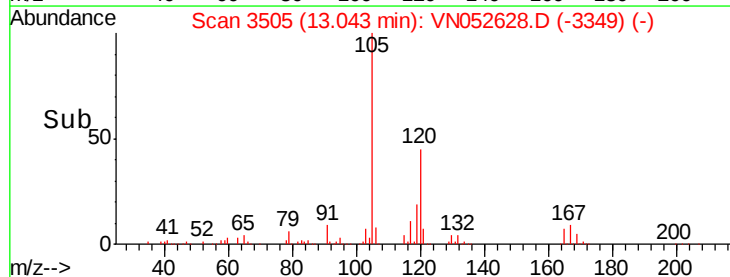
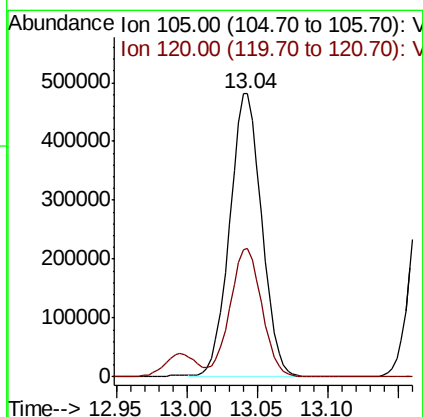
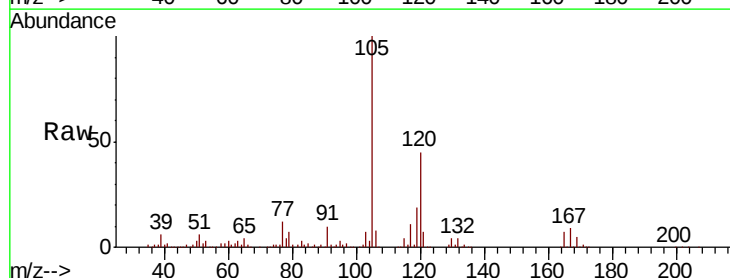
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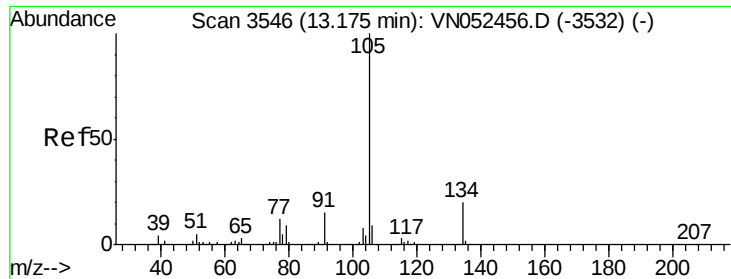
MMDadoda
12/4/2018 2:57:27 PM



#80
1,2,4-Trimethylbenzene
Concen: 20.467 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	764763		
120	45.1	0.0	91.0	





#81

sec-Butylbenzene

Concen: 20.050 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:105 Resp: 908211

Ion Ratio Lower Upper

105 100

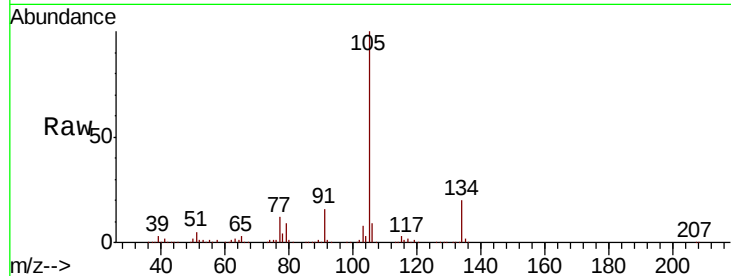
134 20.0 0.0 40.4

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

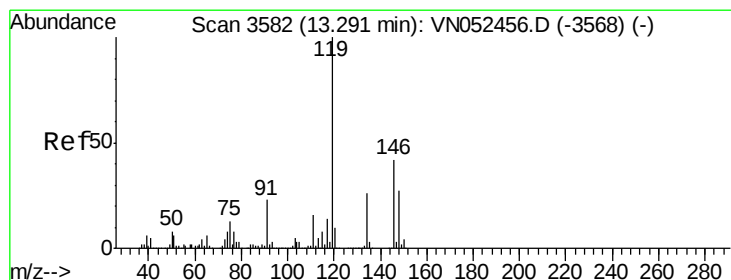
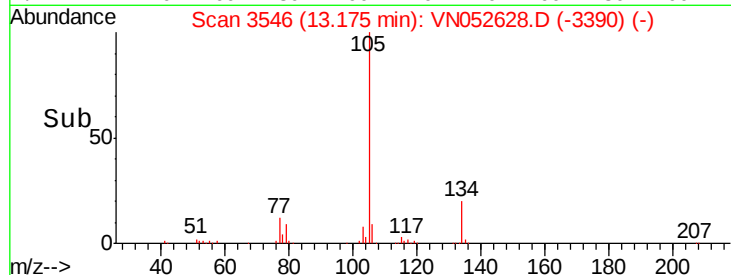
600000

400000

200000

0

Time-->



#82

p-Isopropyltoluene

Concen: 20.075 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052628.D

Acq: 3 Dec 2018 13:34

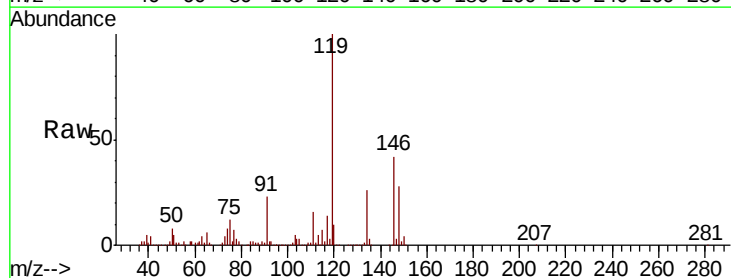
Tgt Ion:119 Resp: 774339

Ion Ratio Lower Upper

119 100

134 26.5 0.0 52.6

91 22.8 0.0 46.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

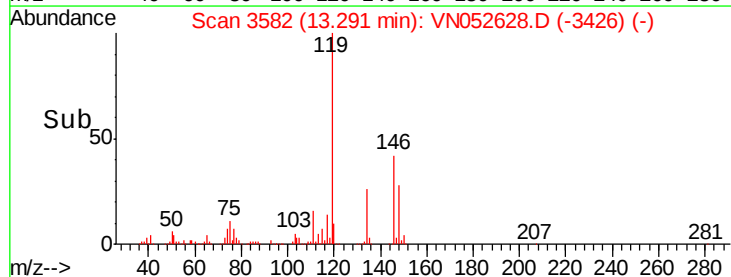
600000

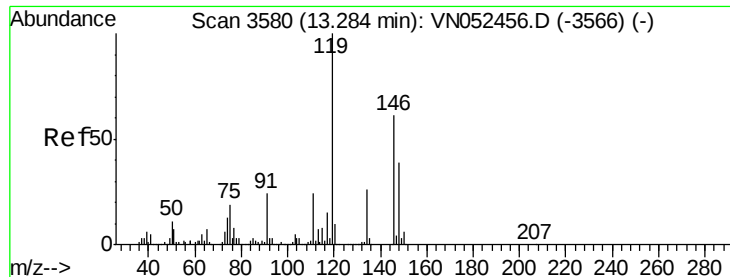
400000

200000

0

Time-->





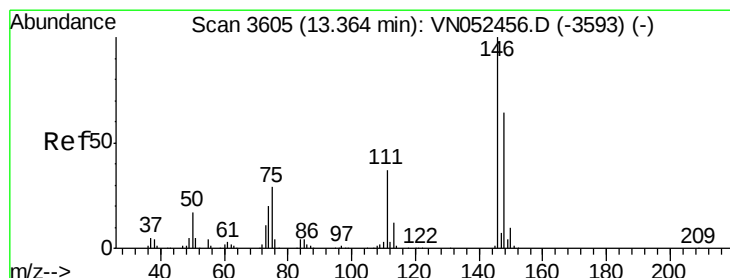
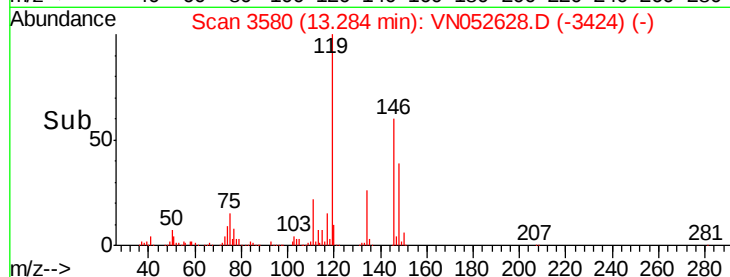
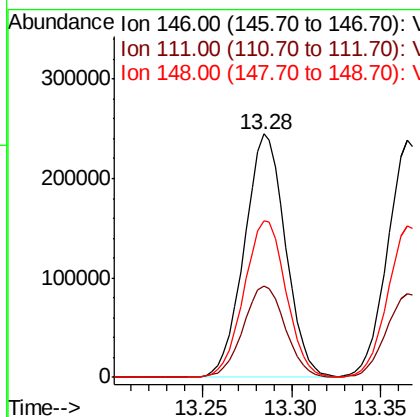
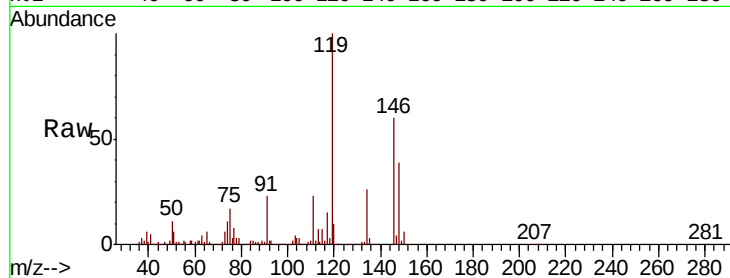
#83
1,3-Dichlorobenzene
Concen: 20.029 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.7	59.0
148	65.8	32.3	96.8

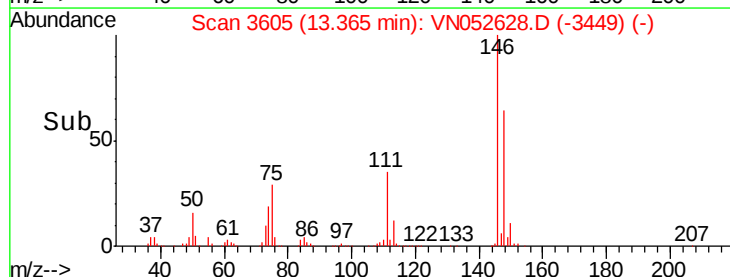
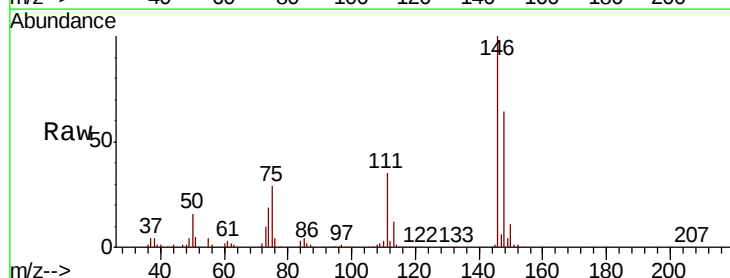
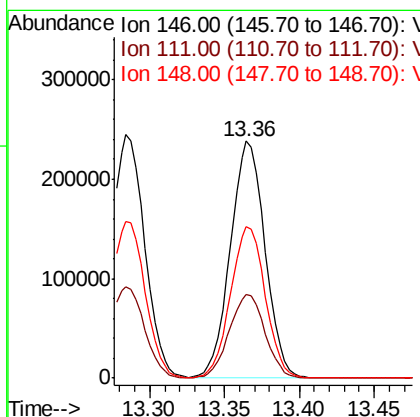
Manual Integrations
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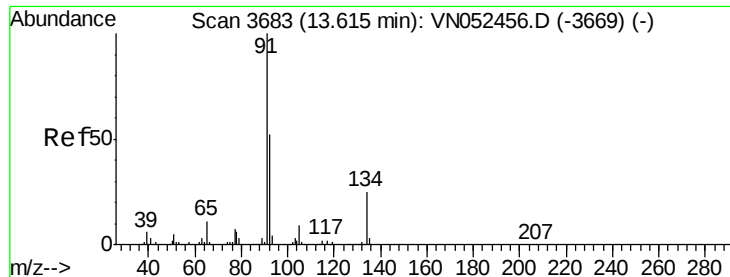
MMDadoda
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#84
1,4-Dichlorobenzene
Concen: 20.275 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.8	56.3
148	64.0	32.5	97.4





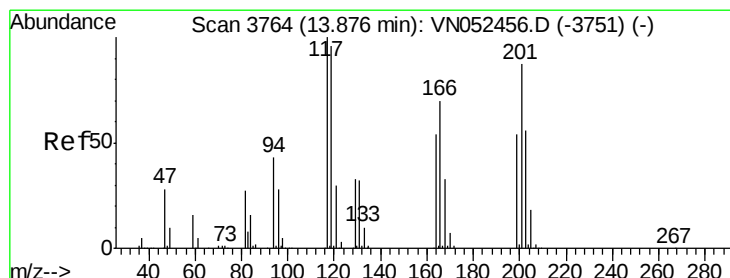
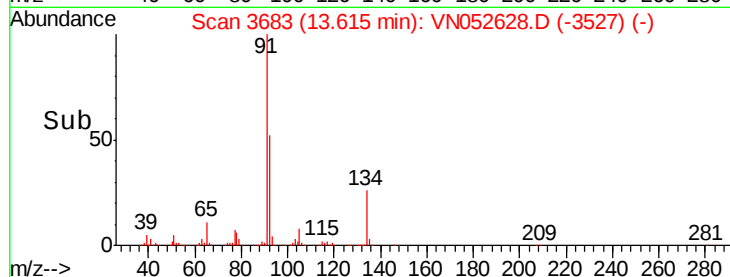
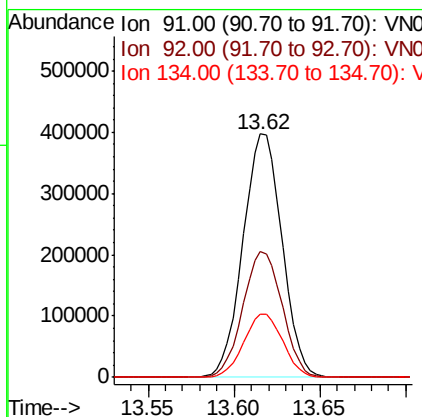
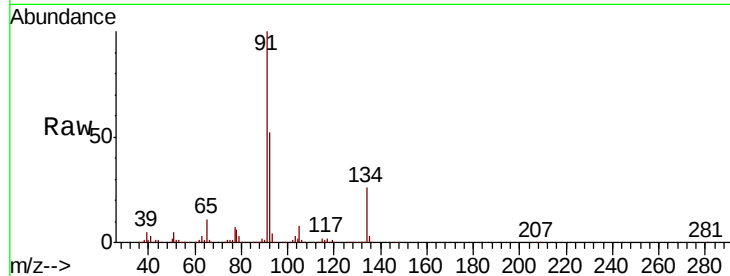
#85
n-Butylbenzene
Concen: 18.871 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	0.0	104.2
134	26.1	0.0	50.6

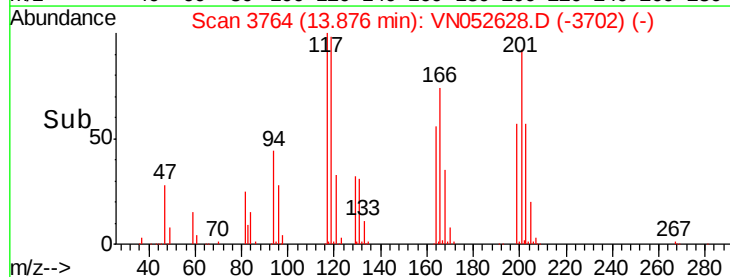
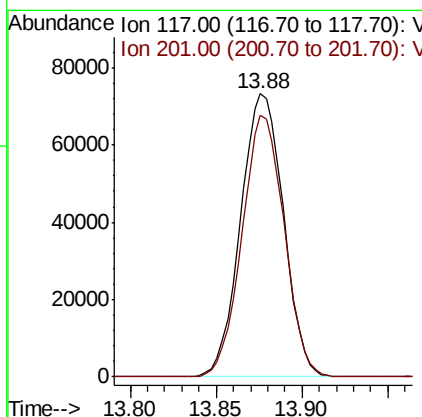
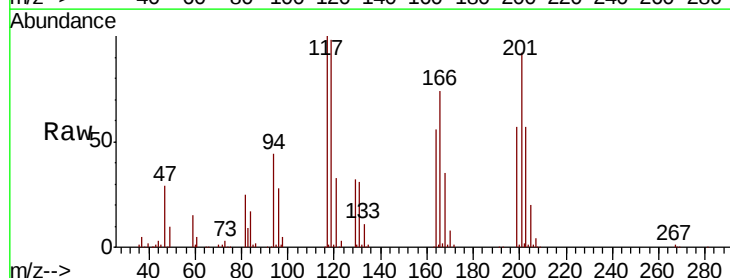
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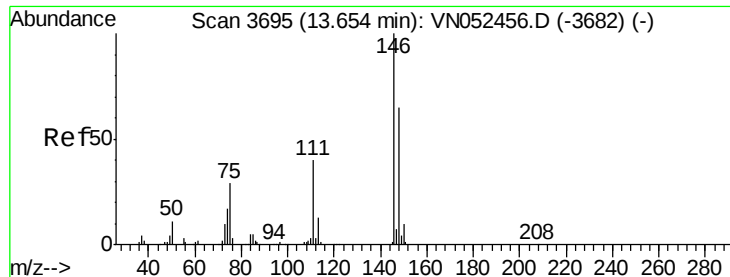
MMDadoda
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#86
Hexachloroethane
Concen: 19.385 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.9	43.8	131.3





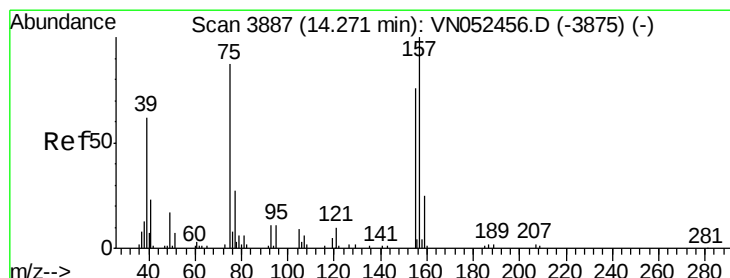
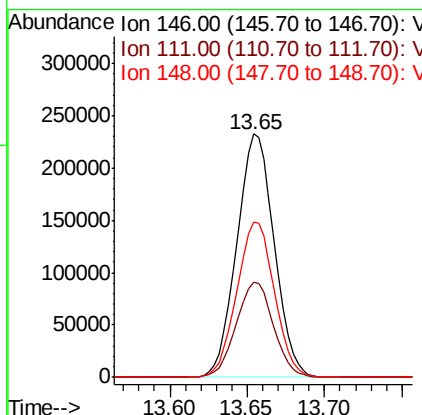
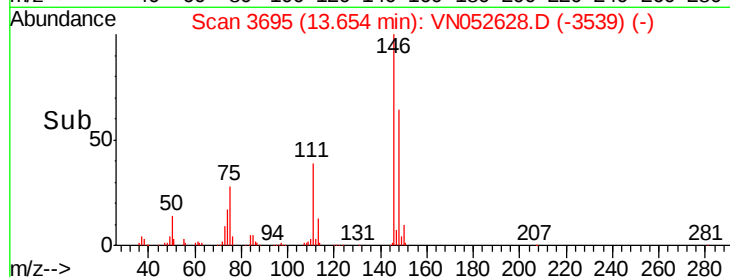
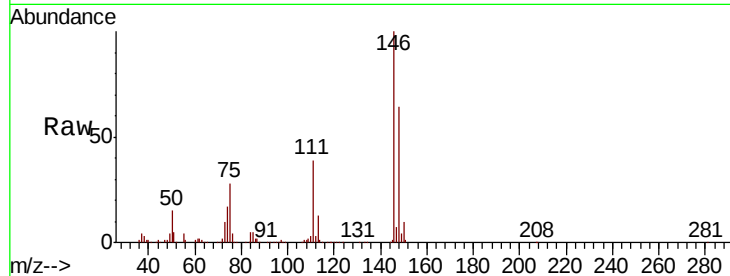
#87
 1,2-Dichlorobenzene
 Concen: 20.864 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	20.3	60.8
148	64.2	32.1	96.5

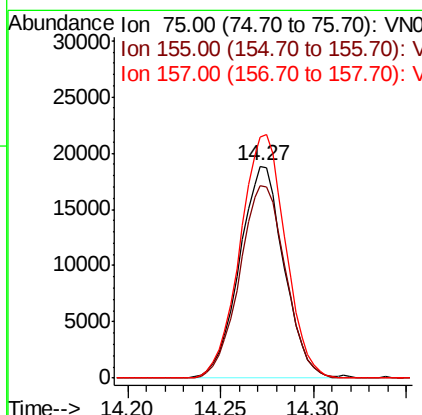
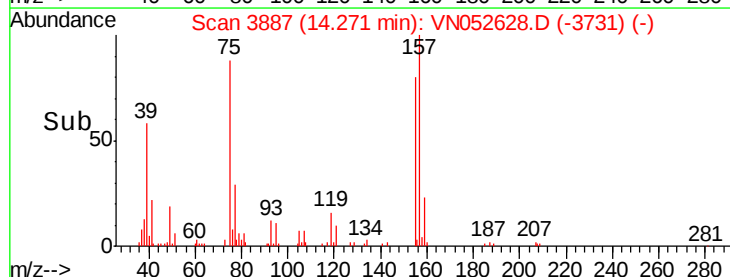
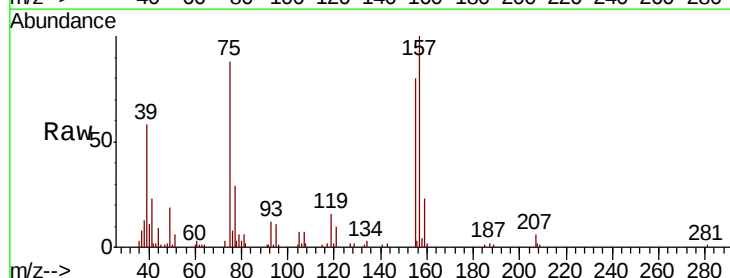
Manual Integrations
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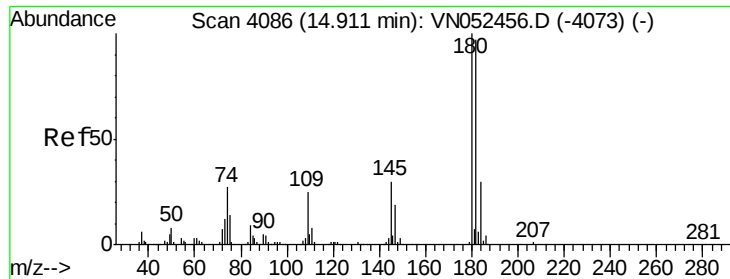
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 12/4/2018 2:57:27 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 22.334 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.3	72.2	108.2
157	116.8	94.2	141.2





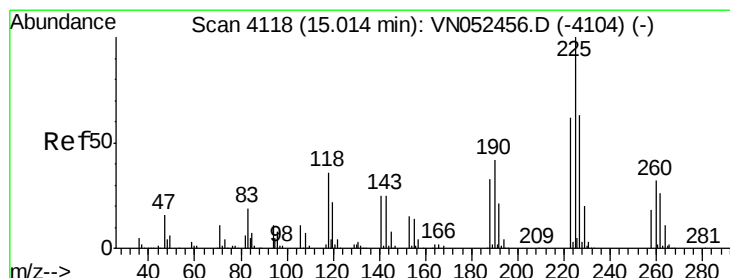
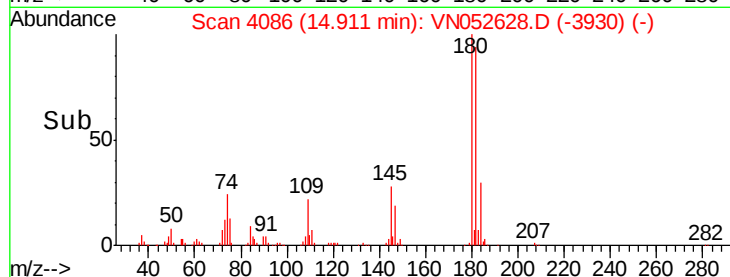
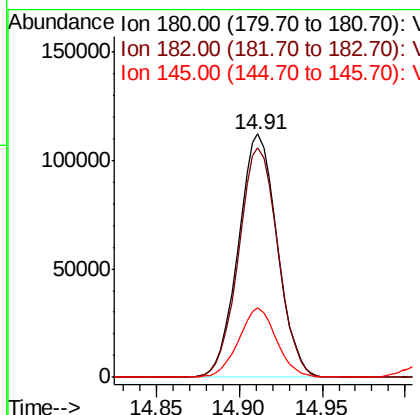
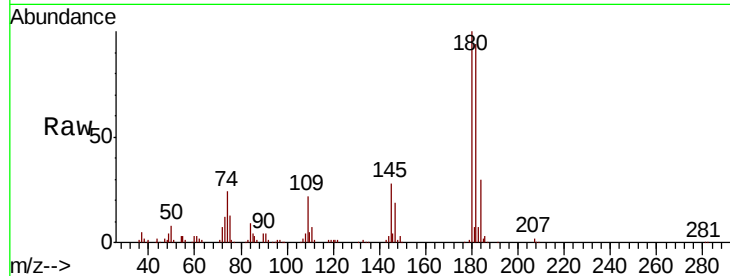
#89
 1,2,4-Trichlorobenzene
 Concen: 19.848 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	183009		
182	95.2	76.6	114.8	
145	27.8	23.6	35.4	

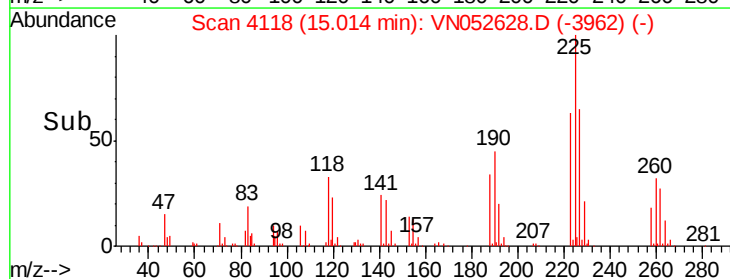
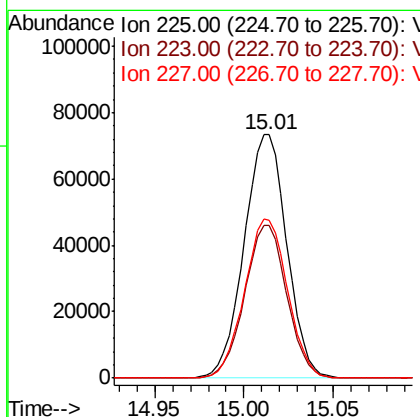
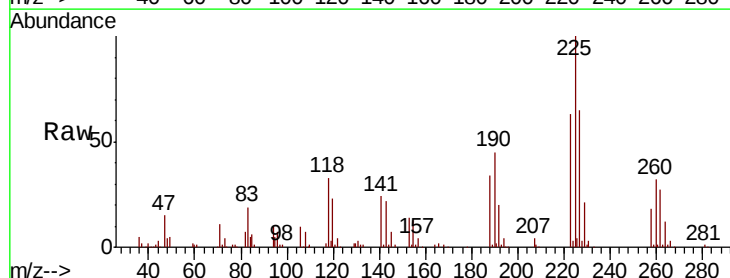
Manual Integrations
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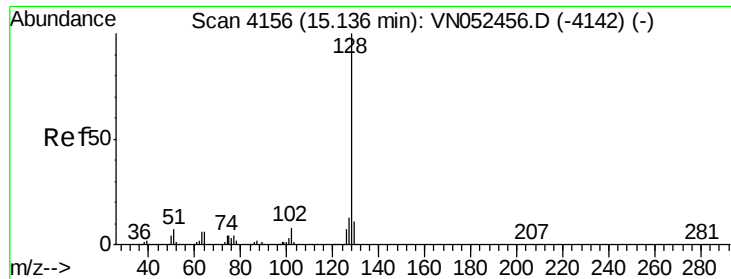
MMDadoda
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#90
 Hexachlorobutadiene
 Concen: 20.282 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN052628.D
 Acq: 3 Dec 2018 13:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	122677		
223	61.8	0.0	125.6	
227	65.7	0.0	127.8	





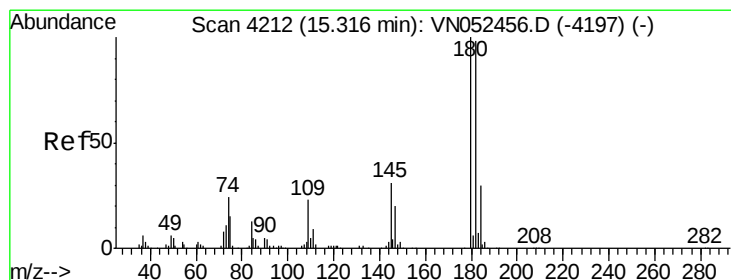
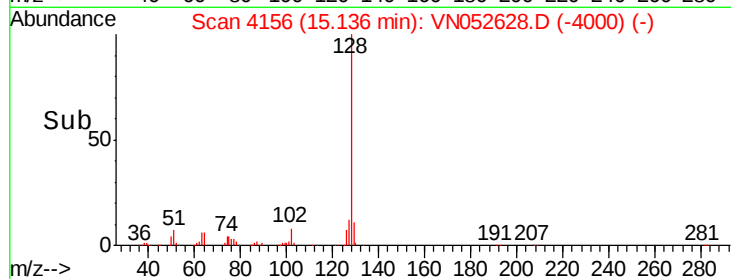
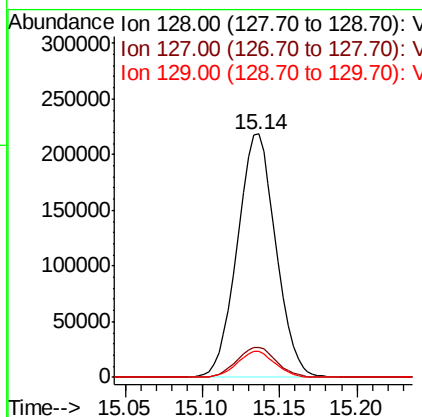
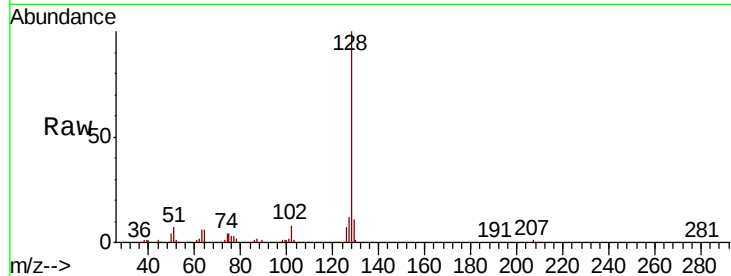
#91
Naphthalene
Concen: 20.358 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		379062		
127	12.6		9.9	14.9	
129	10.6		8.5	12.7	

Manual Integrations
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12/4/2018 2:57:27 PM



#92
1,2,3-Trichlorobenzene
Concen: 20.946 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052628.D
Acq: 3 Dec 2018 13:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		177979		
182	93.8		0.0	196.2	
145	29.4		0.0	62.2	

