

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121718\
 Data File : VN052942.D
 Acq On : 17 Dec 2018 22:18
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 30 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/18/2018 1:33:49 PM

Quant Time: Dec 18 06:34:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1074040	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1673889	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1498783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	713066	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	565012	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
35) Dibromofluoromethane	7.59	113	355178	38.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.02%	
50) Toluene-d8	10.09	98	2021827	49.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.82%	
62) 4-Bromofluorobenzene	12.40	95	714509	52.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	514535	46.538	ug/l	100
3) Chloromethane	2.06	50	638022	48.081	ug/l	100
4) Vinyl Chloride	2.19	62	633335	47.707	ug/l	100
5) Bromomethane	2.57	94	416623	50.881	ug/l	99
6) Chloroethane	2.71	64	373824	47.639	ug/l	99
7) Trichlorofluoromethane	3.02	101	800319	48.625	ug/l	99
8) Diethyl Ether	3.41	74	304503	50.718	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.77	101	488421	47.882	ug/l	98
10) Methyl Iodide	3.96	142	736174	51.533	ug/l	99
11) Tert butyl alcohol	4.77	59	180316	282.581	ug/l	98
12) 1,1-Dichloroethene	3.74	96	486446	49.262	ug/l	99
13) Acrolein	3.61	56	199279	331.700	ug/l	98
14) Allyl chloride	4.33	41	758144	47.006	ug/l	98
15) Acrylonitrile	4.99	53	933008	260.630	ug/l	99
16) Acetone	3.81	43	596649	232.623	ug/l	98
17) Carbon Disulfide	4.06	76	1412958	46.579	ug/l	99
18) Methyl Acetate	4.32	43	512499	54.445	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	1393403	51.978	ug/l	98
20) Methylene Chloride	4.55	84	553586	47.960	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	509687	47.642	ug/l	99
22) Diisopropyl ether	5.95	45	1696497	49.304	ug/l	99
23) Vinyl Acetate	5.90	43	4821924	235.509	ug/l	99
24) 1,1-Dichloroethane	5.85	63	977622	49.269	ug/l	99
25) 2-Butanone	6.83	43	975586	245.136	ug/l	97
26) 2,2-Dichloropropane	6.83	77	668166	45.726	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	592973	48.836	ug/l	100
28) Bromochloromethane	7.20	49	445015	49.945	ug/l	96
29) Tetrahydrofuran	7.21	42	696122	256.215	ug/l	99
30) Chloroform	7.37	83	955035	49.357	ug/l	100
31) Cyclohexane	7.66	56	891568	46.024	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	807321	49.867	ug/l	99
36) 1,1-Dichloropropene	7.79	75	730211	47.372	ug/l	99
37) Ethyl Acetate	6.93	43	468154	50.557	ug/l	100
38) Carbon Tetrachloride	7.78	117	690239	48.649	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	882766	46.668	ug/l	99
40) Benzene	8.04	78	2229637	48.194	ug/l	99
41) Methacrylonitrile	7.17	41	276878	53.965	ug/l	92
42) 1,2-Dichloroethane	8.12	62	669317	48.056	ug/l	99
43) Isopropyl Acetate	8.16	43	907861	47.819	ug/l	98
44) Trichloroethene	8.84	130	631215	50.512	ug/l	97
45) 1,2-Dichloropropane	9.12	63	594297	49.044	ug/l	99
46) Dibromomethane	9.21	93	346263	49.272	ug/l	99
47) Bromodichloromethane	9.40	83	727224	49.902	ug/l	99
48) Methyl methacrylate	9.20	41	431486	51.824	ug/l	98
49) 1,4-Dioxane	9.20	88	106150	1123.205	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	2259824	259.583	ug/l	99
52) Toluene	10.16	92	1381258	49.295	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	767887	52.363	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	876970	50.185	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	495988	49.587	ug/l	99
56) Ethyl methacrylate	10.43	69	698754	54.435	ug/l	98
57) 1,3-Dichloropropane	10.71	76	855846	49.896	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1916172	267.528	ug/l	99
59) 2-Hexanone	10.75	43	1541890	258.441	ug/l	100
60) Dibromochloromethane	10.90	129	552397	51.099	ug/l	100
61) 1,2-Dibromoethane	11.01	107	507656	51.346	ug/l	100
64) Tetrachloroethene	10.63	164	751941	58.373	ug/l	99
65) Chlorobenzene	11.43	112	1530021	49.206	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	538917	49.834	ug/l	100
67) Ethyl Benzene	11.51	91	2661366	49.840	ug/l	99
68) m/p-Xylenes	11.62	106	2025145	101.002	ug/l	99
69) o-Xylene	11.95	106	989739	50.551	ug/l	100
70) Styrene	11.96	104	1645313	52.275	ug/l	99
71) Bromoform	12.13	173	388015	52.814	ug/l	# 100
73) Isopropylbenzene	12.25	105	2632188	49.440	ug/l	100
74) N-amyl acetate	12.07	43	802781	54.923	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	538248	45.110	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	515254m	48.976	ug/l	
77) Bromobenzene	12.53	156	675814	49.907	ug/l	99
78) n-propylbenzene	12.59	91	3010295	49.577	ug/l	99
79) 2-Chlorotoluene	12.67	91	1764844	49.165	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2137548	49.736	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	183294	55.970	ug/l	96
82) 4-Chlorotoluene	12.77	91	1809164	49.294	ug/l	100
83) tert-Butylbenzene	12.99	119	1875776	49.477	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	2181655	50.142	ug/l	100
85) sec-Butylbenzene	13.17	105	2559210	49.845	ug/l	100
86) p-Isopropyltoluene	13.29	119	2217733	49.856	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1192639	49.561	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1178625	49.458	ug/l	100
89) n-Butylbenzene	13.62	91	1881056	50.232	ug/l	99
90) Hexachloroethane	13.88	117	329885	44.288	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	1148978	49.636	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	93306	51.877	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	626128	49.760	ug/l	99
94) Hexachlorobutadiene	15.01	225	338752	46.511	ug/l	99
95) Naphthalene	15.13	128	1393623	53.476	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	559368	48.448	ug/l	99

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

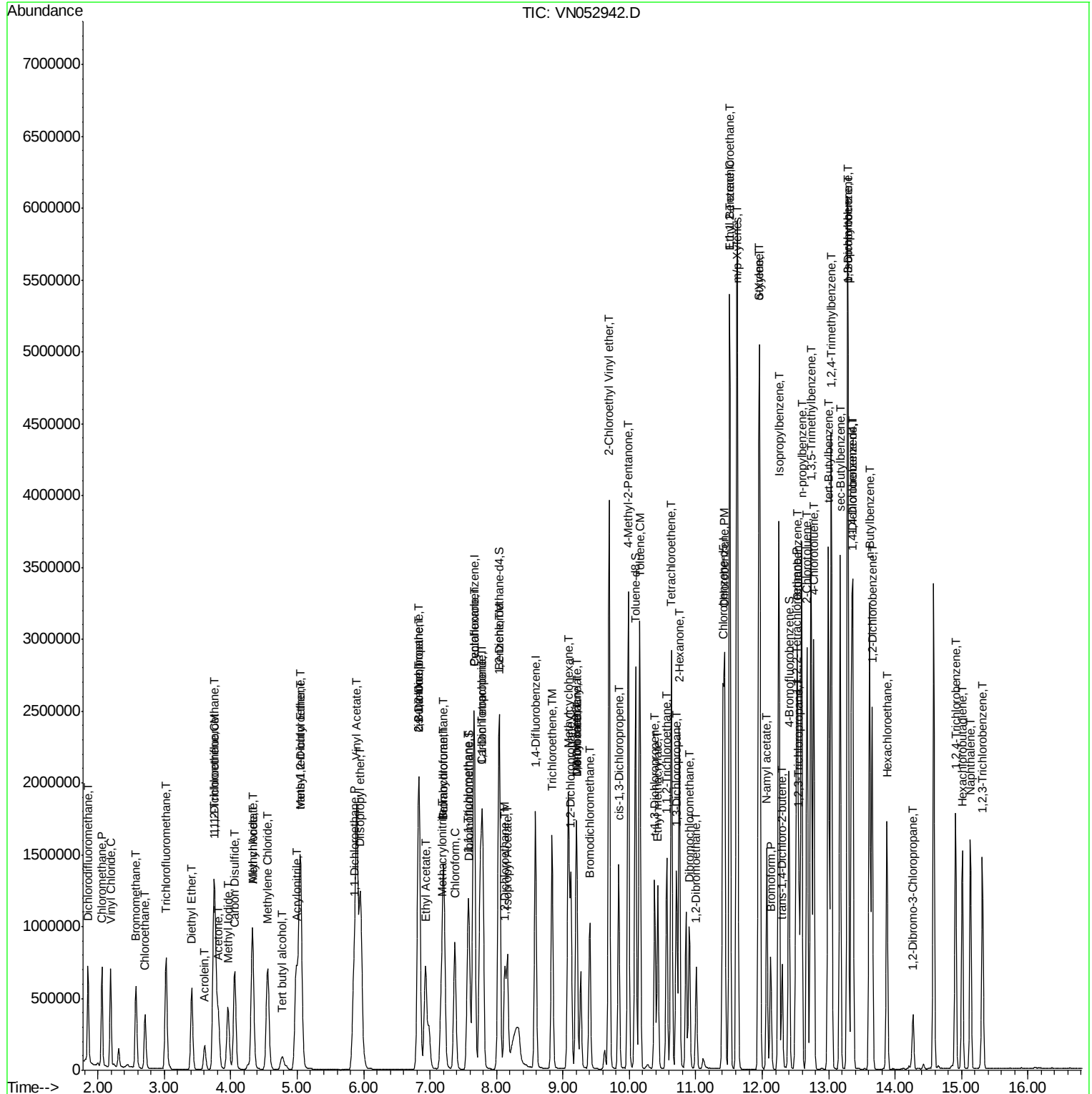
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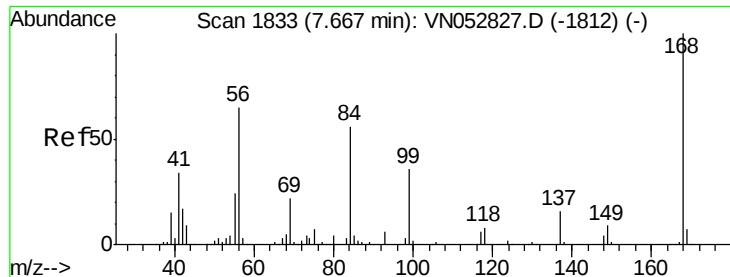
Instrument :
MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:168 Resp: 1074040

Ion Ratio Lower Upper

168 100

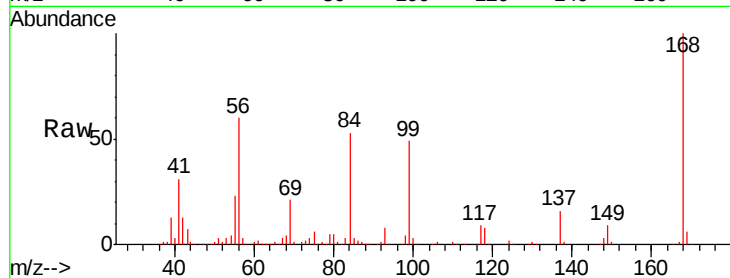
99 49.1 40.2 60.2

Manual Integrations

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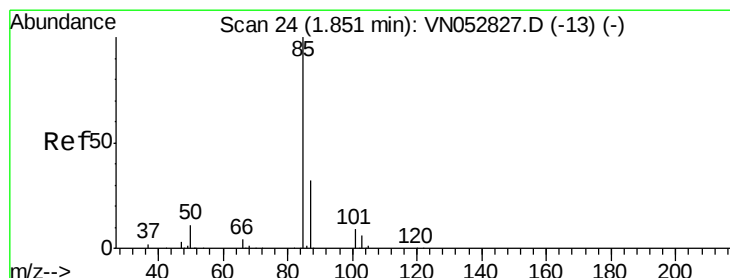
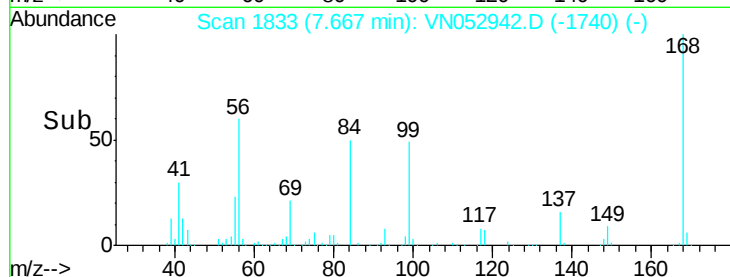
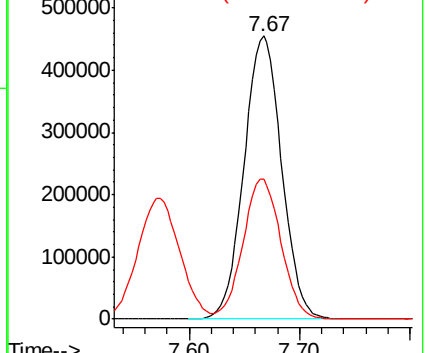
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 46.538 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052942.D

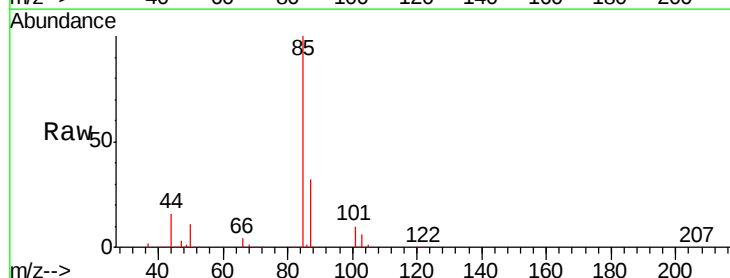
Acq: 17 Dec 2018 22:18

Tgt Ion: 85 Resp: 514535

Ion Ratio Lower Upper

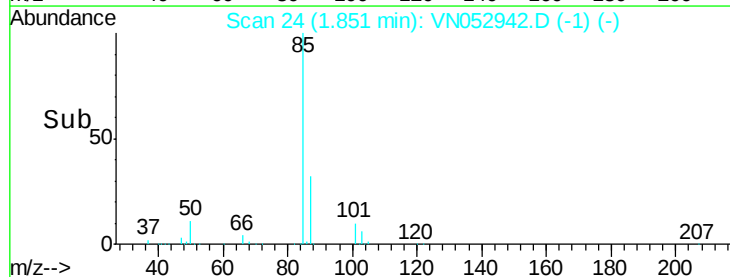
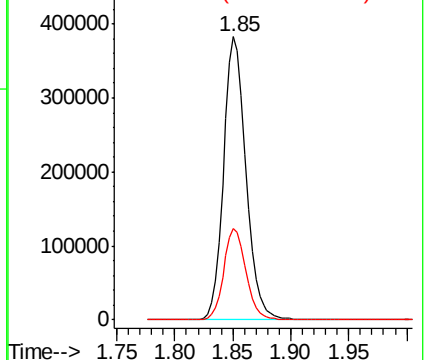
85 100

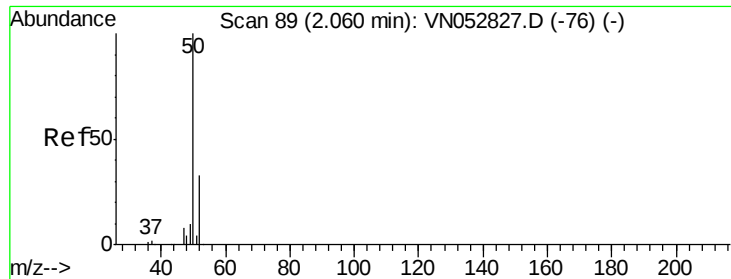
87 32.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 48.081 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 638022

Ion Ratio Lower Upper

50 100

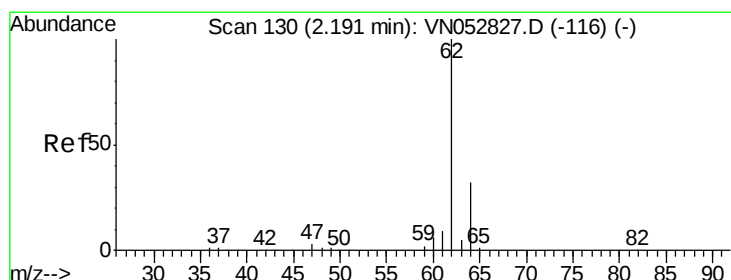
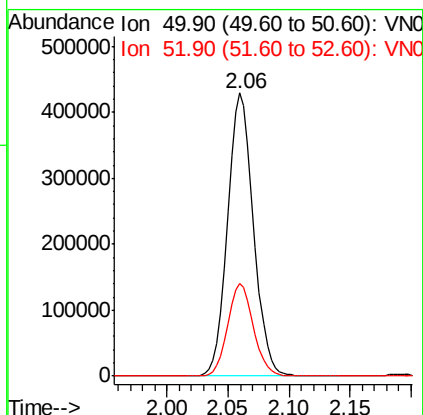
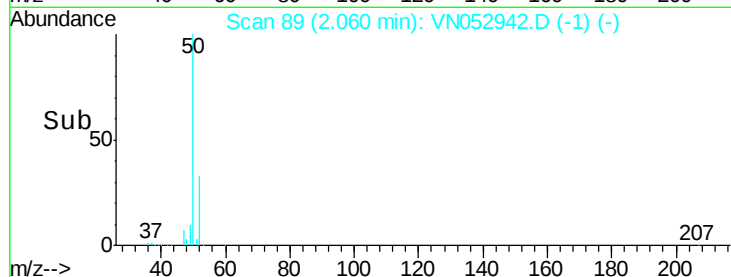
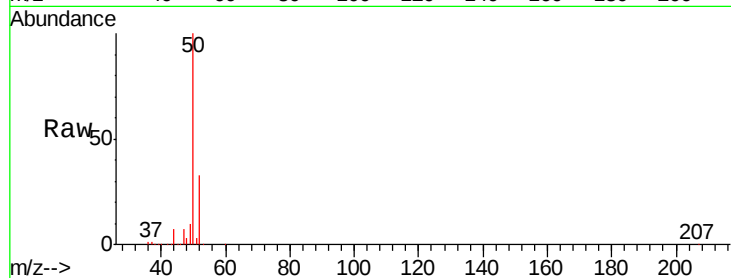
52 32.8 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 47.707 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052942.D

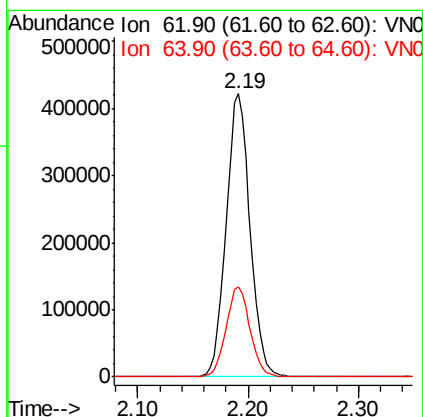
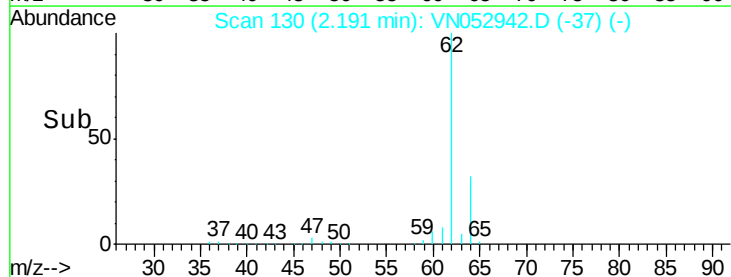
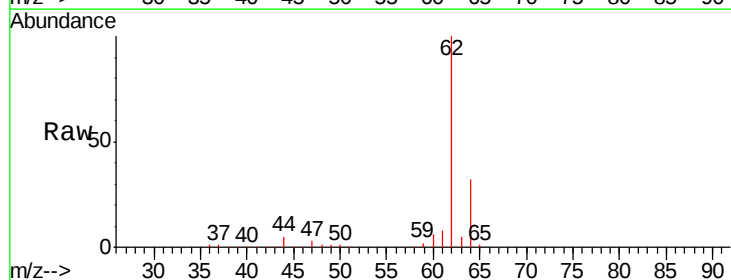
Acq: 17 Dec 2018 22:18

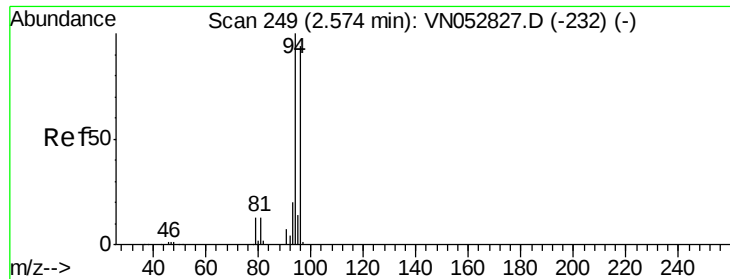
Tgt Ion: 62 Resp: 633335

Ion Ratio Lower Upper

62 100

64 32.0 25.5 38.3





#5

Bromomethane

Concen: 50.881 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

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Tgt Ion: 94 Resp: 416623

Ion Ratio Lower Upper

94 100

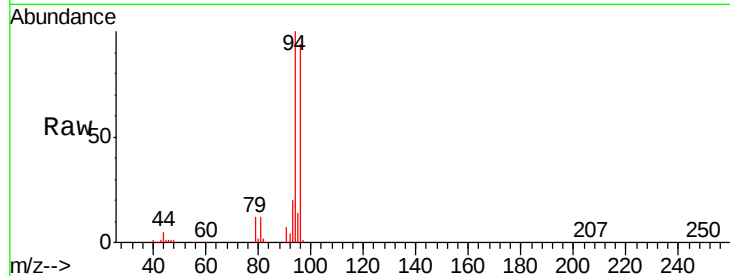
96 94.4 75.0 112.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN052827.D (-232) (-)

Ion 95.90 (95.60 to 96.60): VN052827.D (-232) (-)

250000

200000

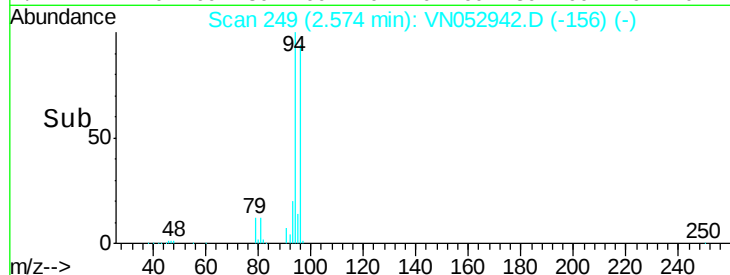
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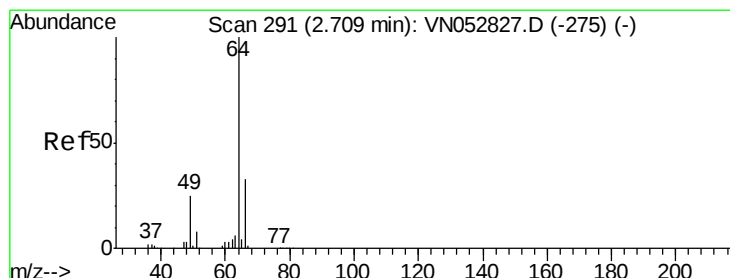
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Time-->



Time-->



#6

Chloroethane

Concen: 47.639 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN052942.D

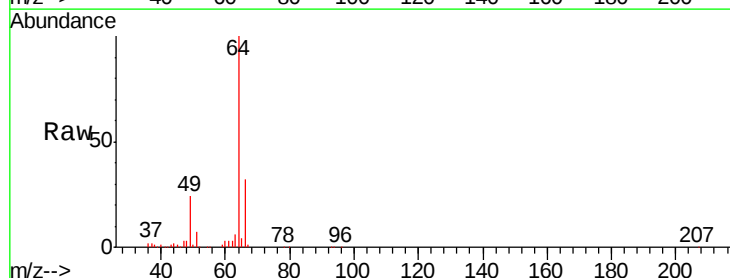
Acq: 17 Dec 2018 22:18

Tgt Ion: 64 Resp: 373824

Ion Ratio Lower Upper

64 100

66 32.3 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN052827.D (-275) (-)

Ion 65.90 (65.60 to 66.60): VN052827.D (-275) (-)

200000

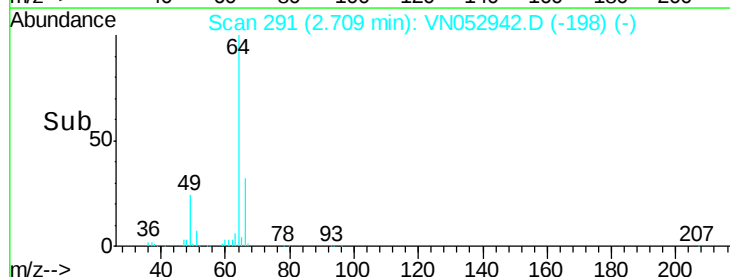
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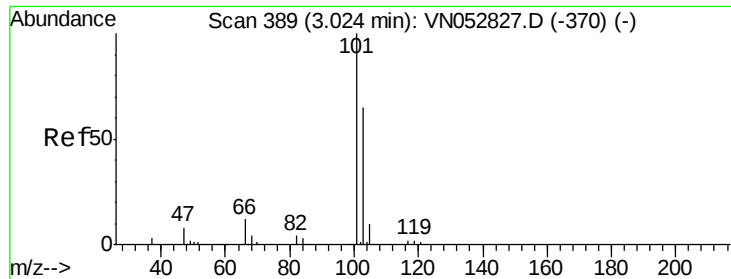
50000

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Time-->



Time-->



#7

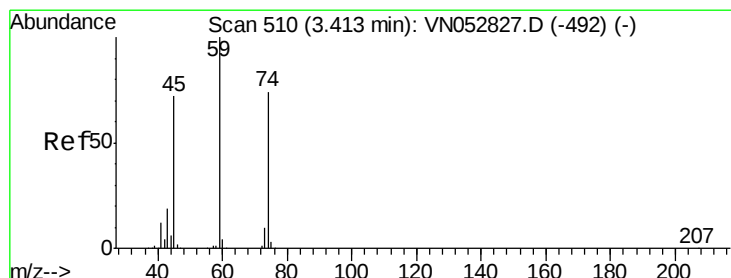
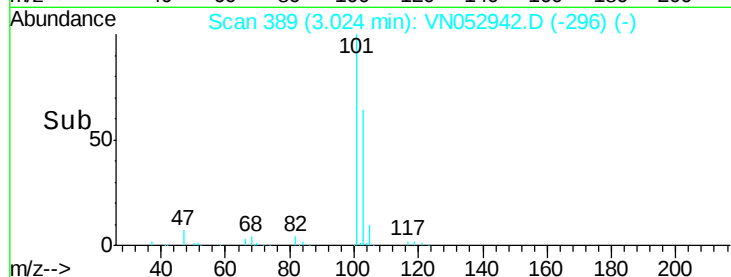
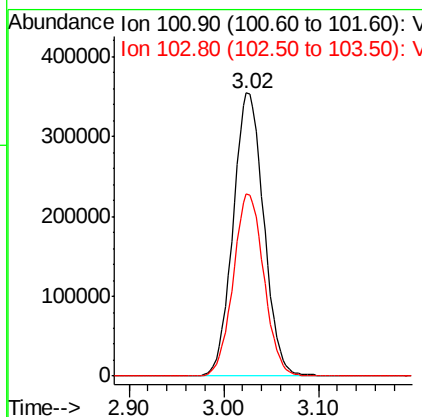
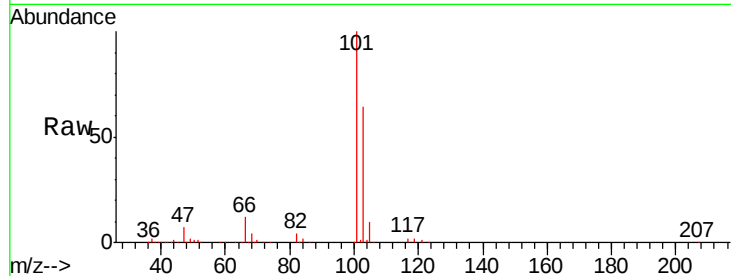
Trichlorofluoromethane
 Concen: 48.625 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
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Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.8	77.6

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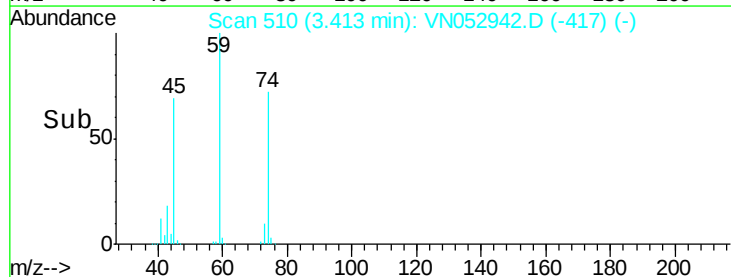
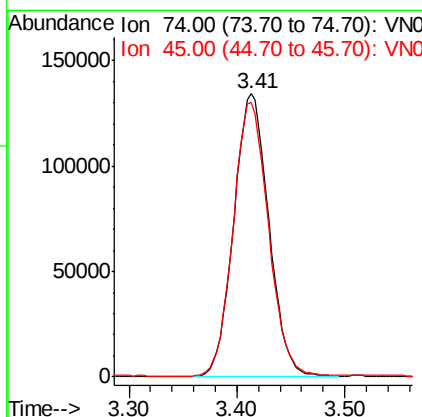
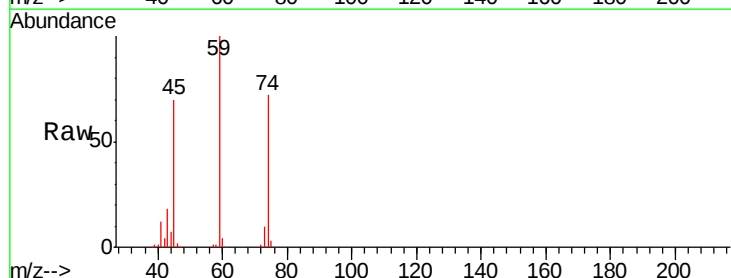
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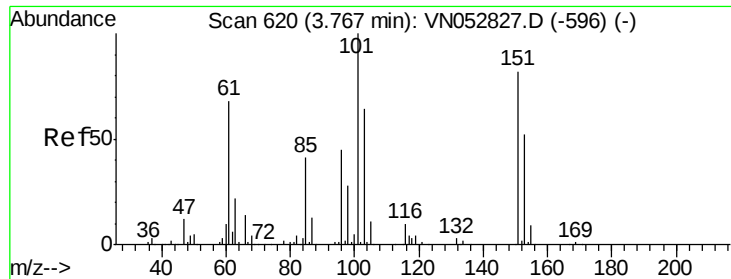


#8

Diethyl Ether
 Concen: 50.718 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.6	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.882 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

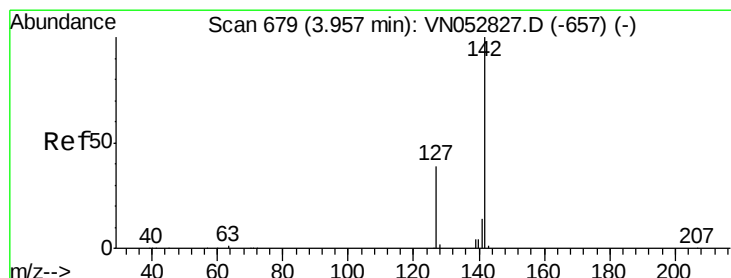
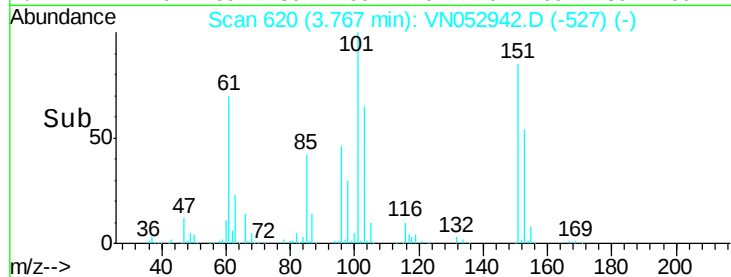
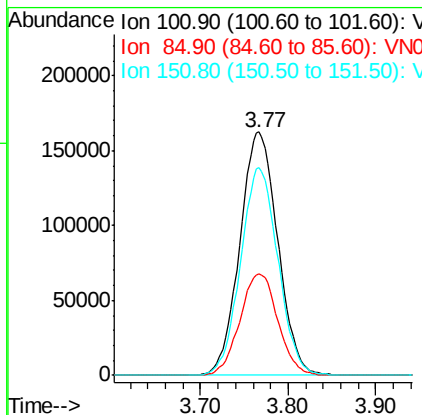
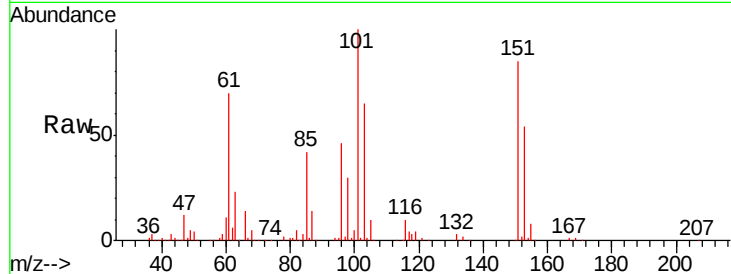
ClientSampleId :

VSTDCCC050

Tgt	Ion	101	Resp:	488421
	Ion	Ratio	Lower	Upper
	101	100		
	85	41.9	33.6	50.4
	151	84.5	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 51.533 ug/l

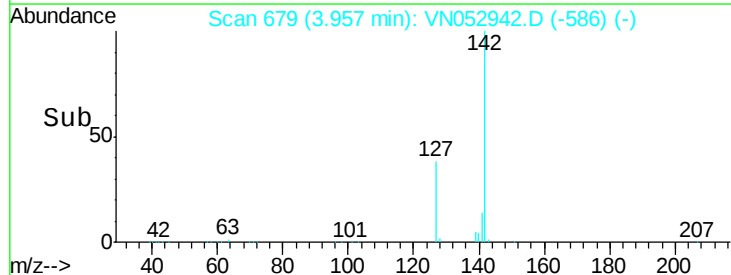
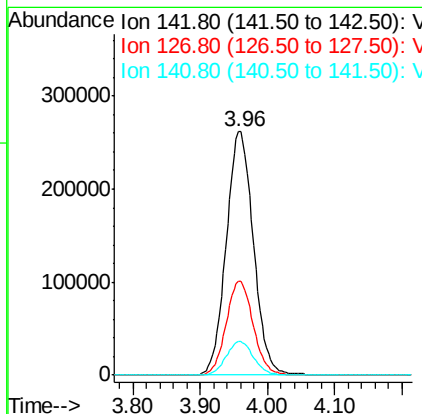
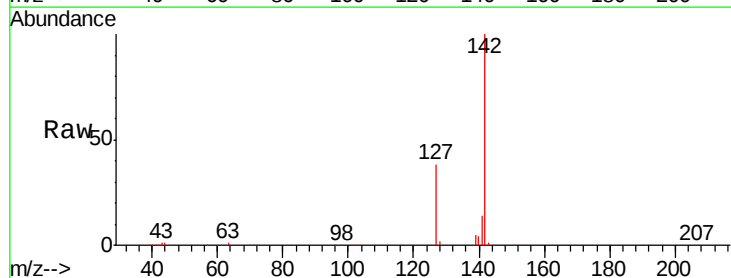
RT: 3.96 min Scan# 679

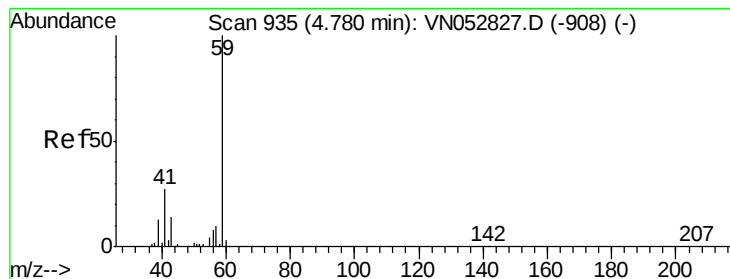
Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Tgt	Ion	142	Resp:	736174
	Ion	Ratio	Lower	Upper
	142	100		
	127	38.3	31.0	46.6
	141	13.8	11.2	16.8





#11

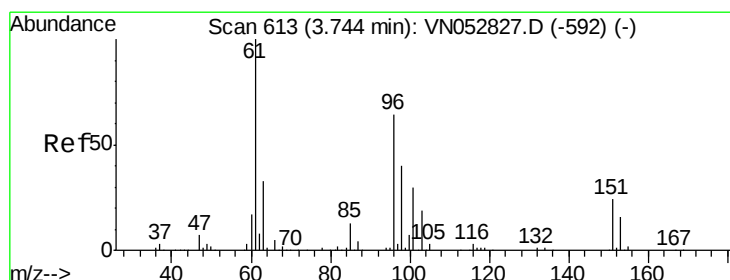
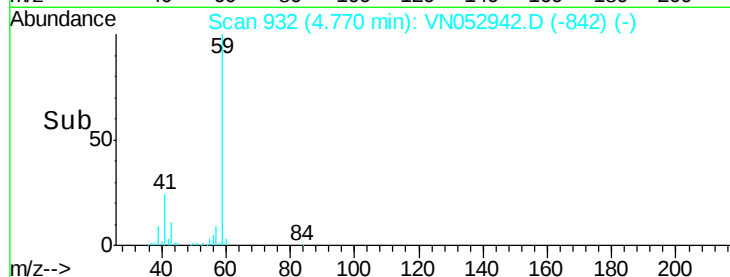
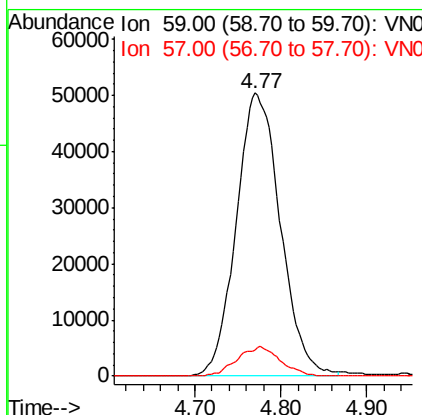
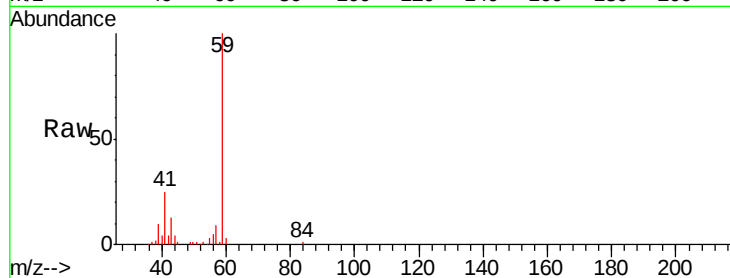
Tert butyl alcohol
 Concen: 282.581 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. -0.01 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 59 Resp: 180316
 Ion Ratio Lower Upper
 59 100
 57 10.2 7.7 11.5

Manual Integrations
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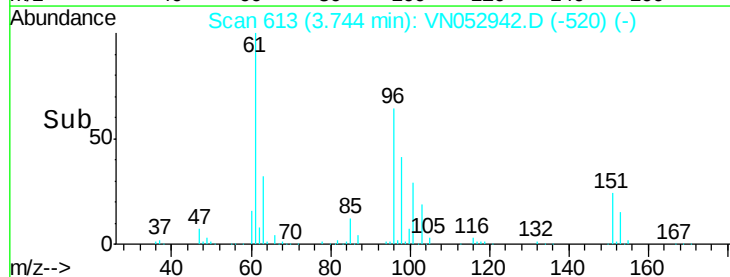
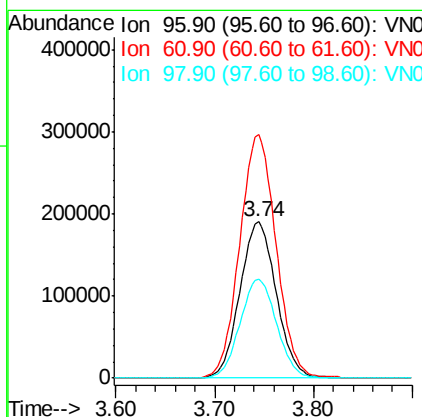
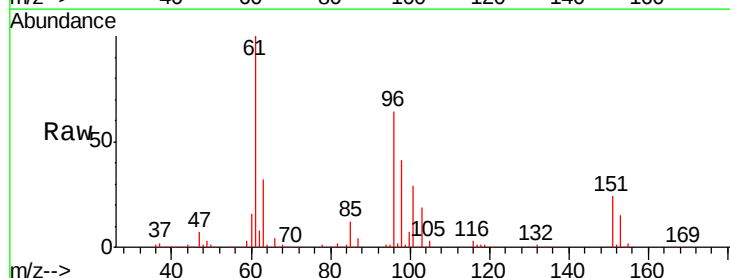
MMDadoda
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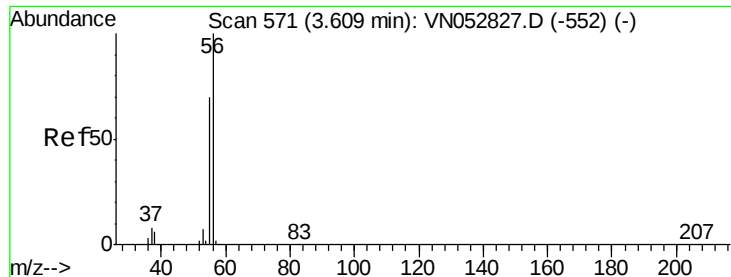


#12

1,1-Dichloroethene
 Concen: 49.262 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion: 96 Resp: 486446
 Ion Ratio Lower Upper
 96 100
 61 155.7 125.6 188.4
 98 63.5 50.6 75.8





#13

Acrolein

Concen: 331.700 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 199279

Ion Ratio Lower Upper

56 100

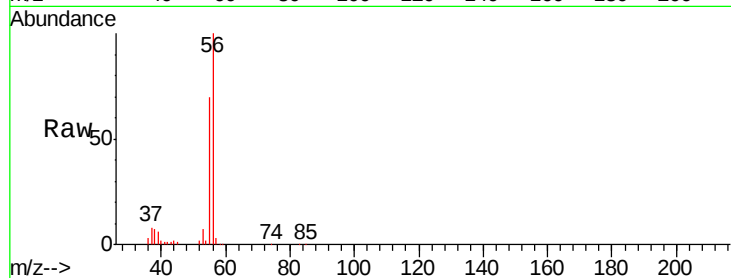
55 69.5 56.6 85.0

Manual Integrations

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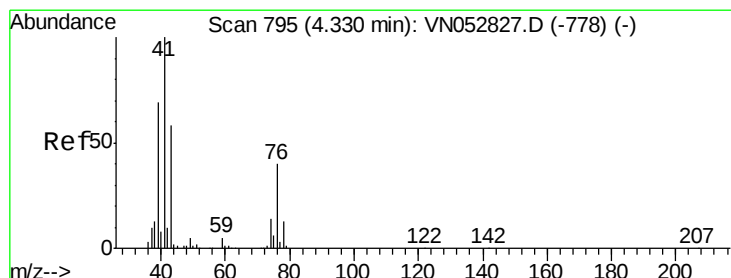
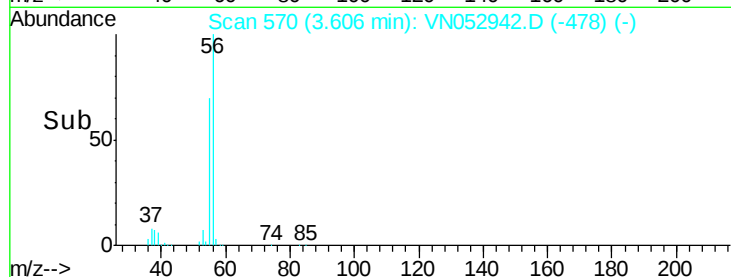
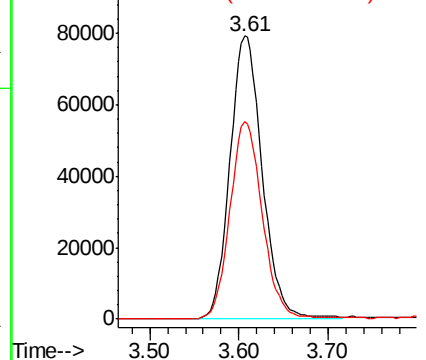
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 47.006 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

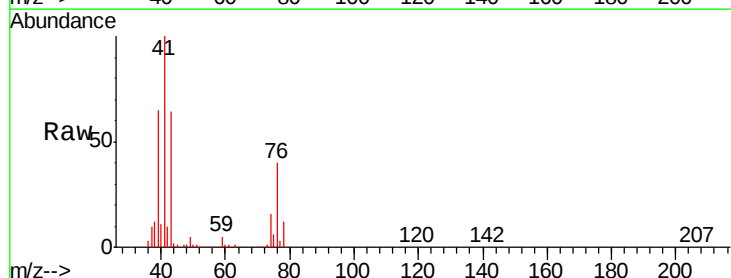
Tgt Ion: 41 Resp: 758144

Ion Ratio Lower Upper

41 100

39 66.1 54.1 81.1

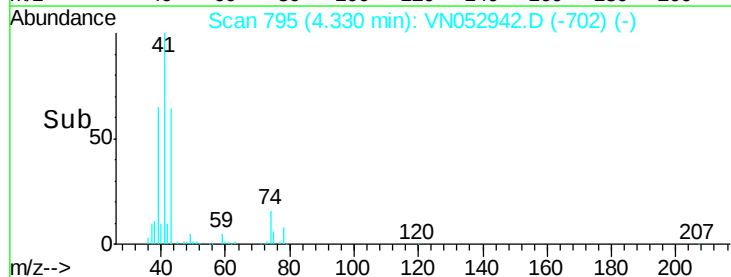
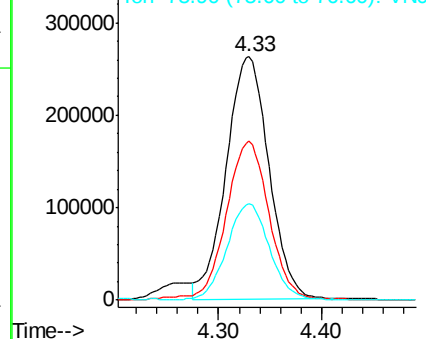
76 38.8 30.3 45.5

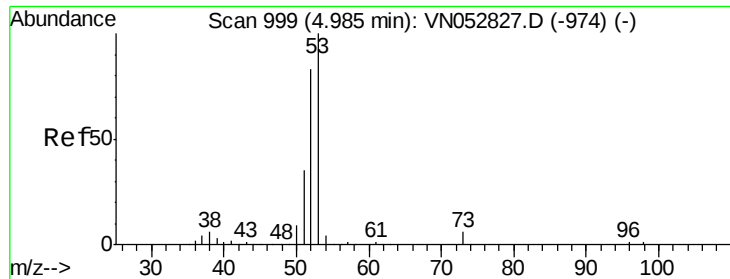


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 260.630 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

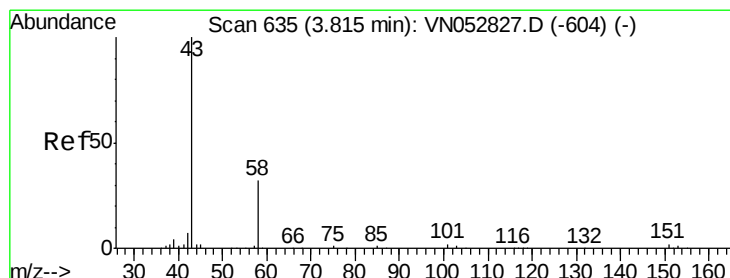
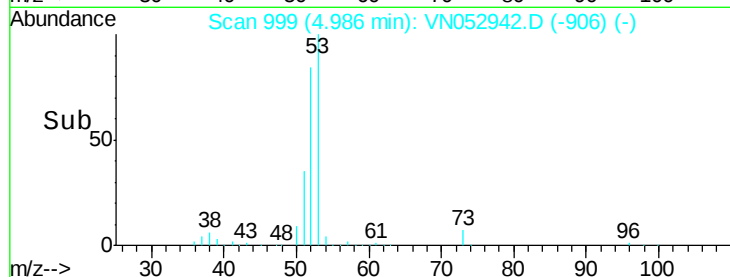
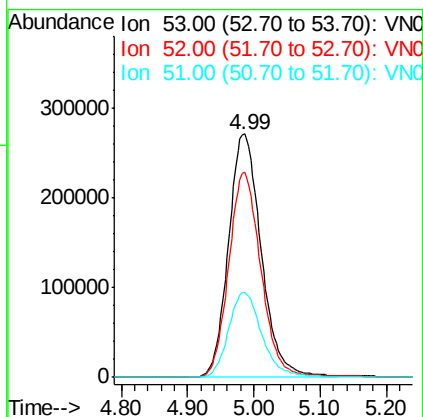
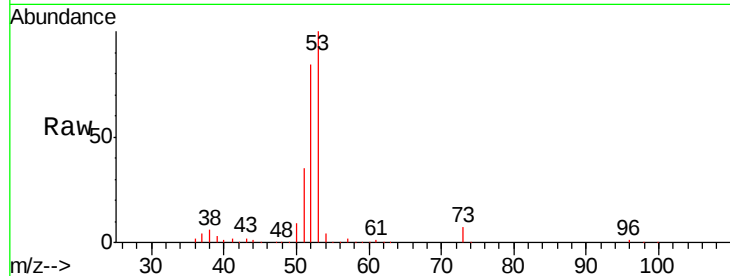
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	933008
Ion	Ratio	Lower	Upper
53	100		
52	82.1	65.1	97.7
51	35.8	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 232.623 ug/l

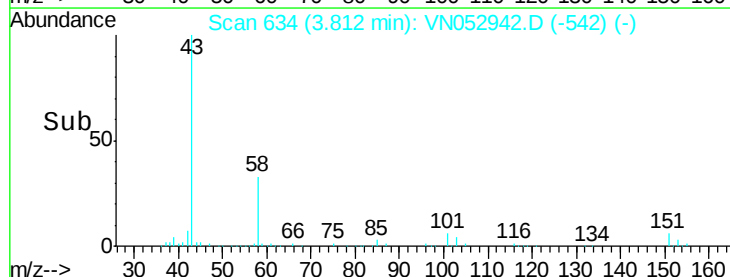
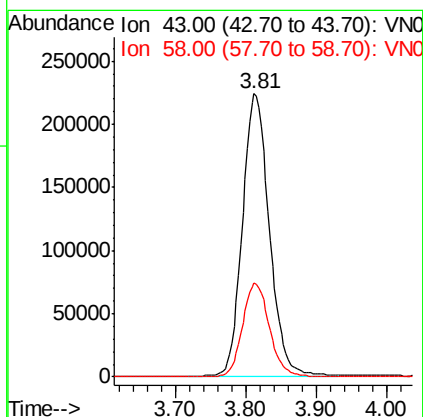
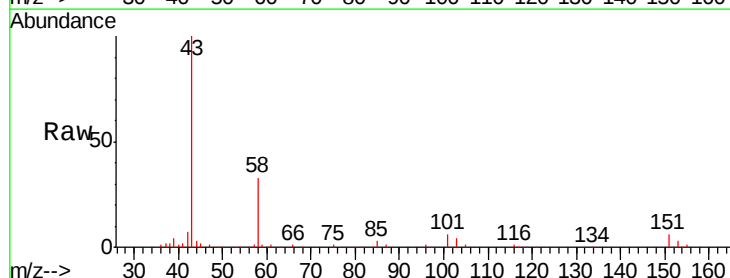
RT: 3.81 min Scan# 634

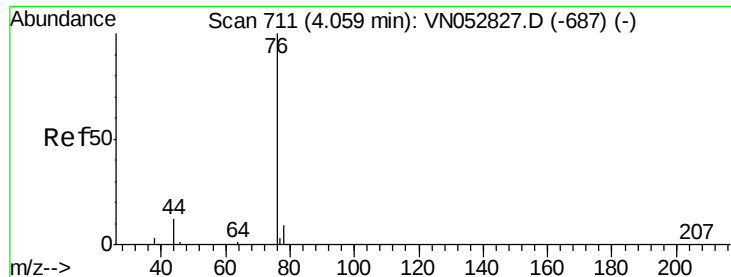
Delta R.T. -0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Tgt Ion:	43	Resp:	596649
Ion	Ratio	Lower	Upper
43	100		
58	32.9	25.4	38.0





#17

Carbon Disulfide

Concen: 46.579 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 1412958

Ion Ratio Lower Upper

76 100

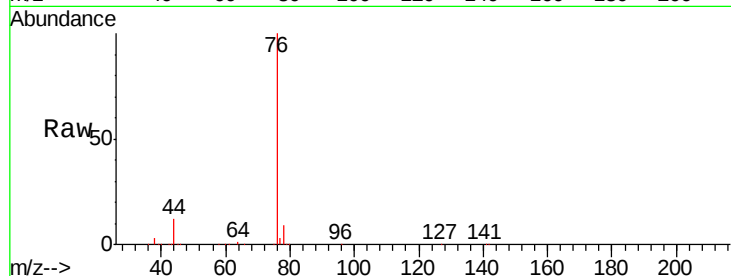
78 9.2 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN052827.D (-687) (-)

Ion 77.90 (77.60 to 78.60): VN052827.D (-687) (-)

4.06

600000

500000

400000

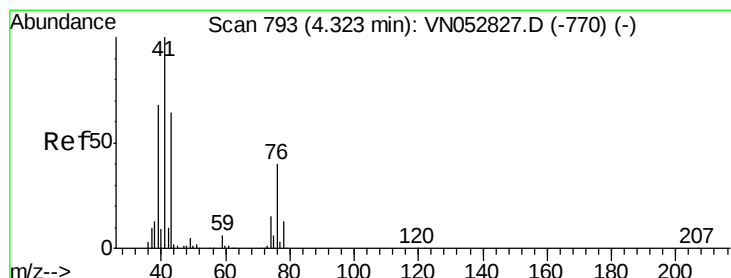
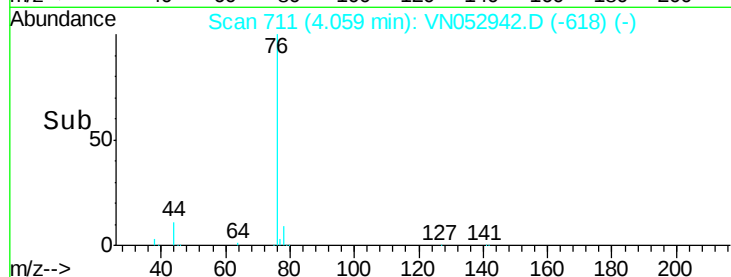
300000

200000

100000

0

Time--> 3.90 4.00 4.10 4.20



#18

Methyl Acetate

Concen: 54.445 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN052942.D

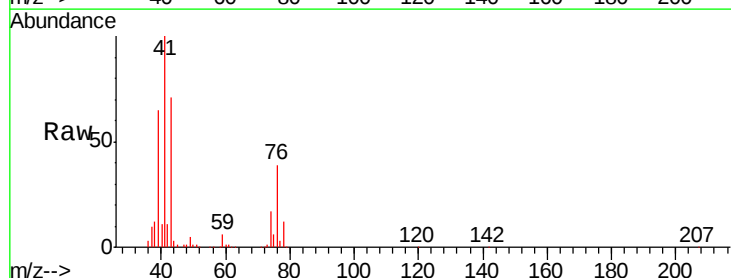
Acq: 17 Dec 2018 22:18

Tgt Ion: 43 Resp: 512499

Ion Ratio Lower Upper

43 100

74 24.7 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-770) (-)

Ion 74.00 (73.70 to 74.70): VN052827.D (-770) (-)

4.32

200000

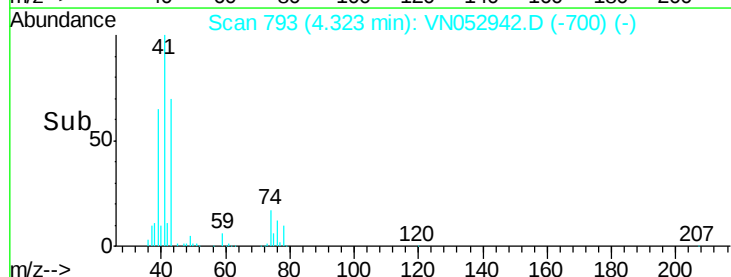
150000

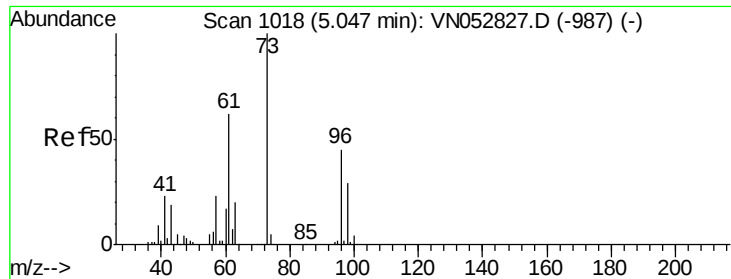
100000

50000

0

Time--> 4.20 4.30 4.40





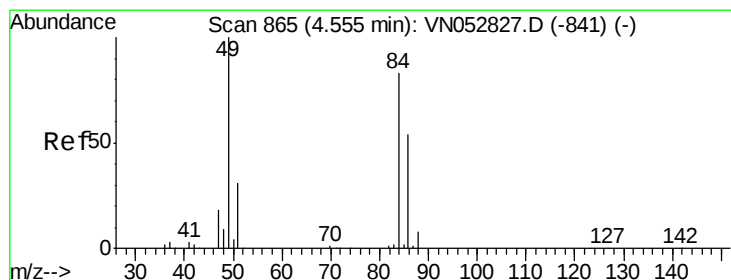
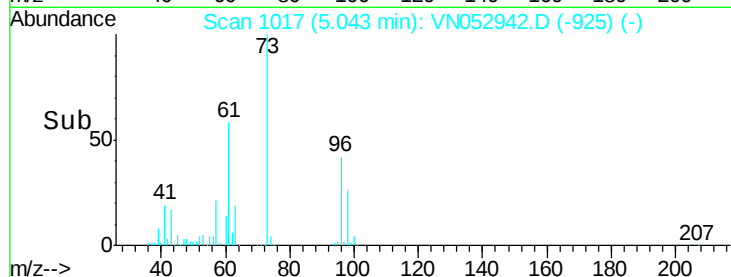
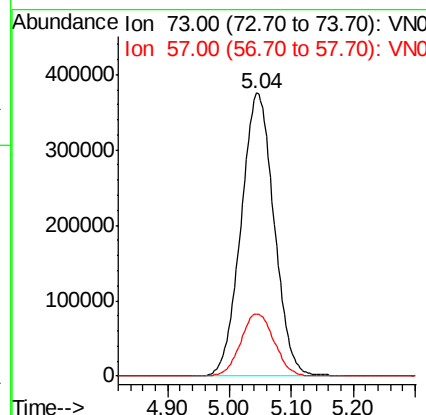
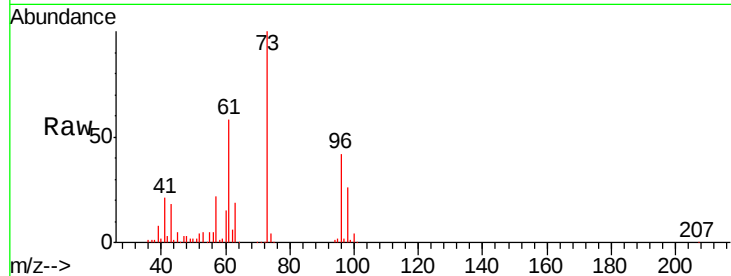
#19
Methyl tert-butyl Ether
Concen: 51.978 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 1393403
Ion Ratio Lower Upper
73 100
57 21.8 18.4 27.6

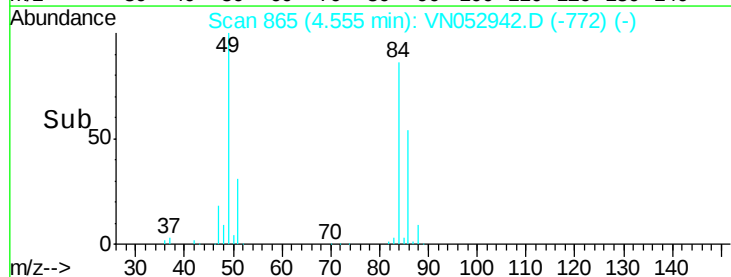
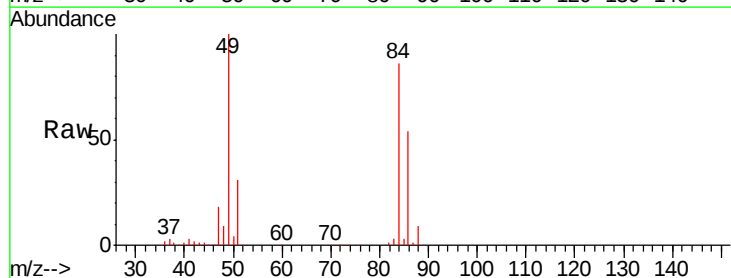
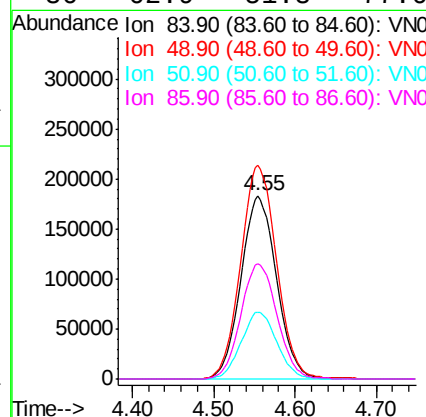
Manual Integrations
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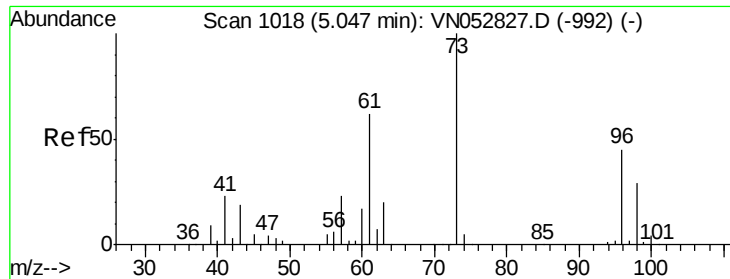
MMDadoda
12/18/2018 1:33:49 PM



#20
Methylene Chloride
Concen: 47.960 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion: 84 Resp: 553586
Ion Ratio Lower Upper
84 100
49 116.7 96.8 145.2
51 36.7 29.9 44.9
86 62.9 51.8 77.6





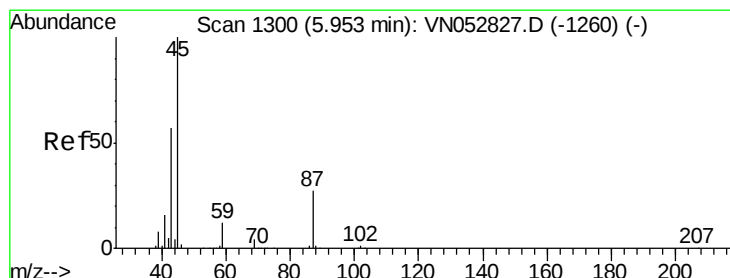
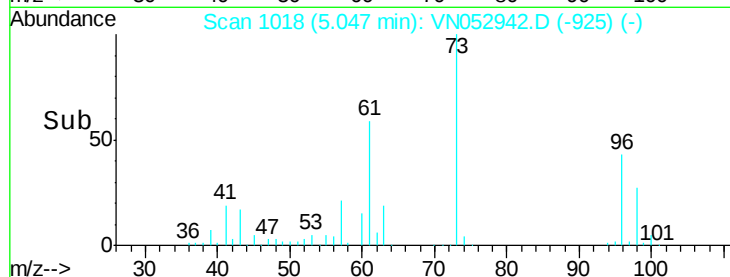
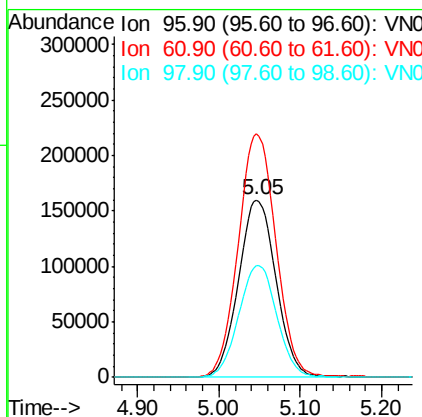
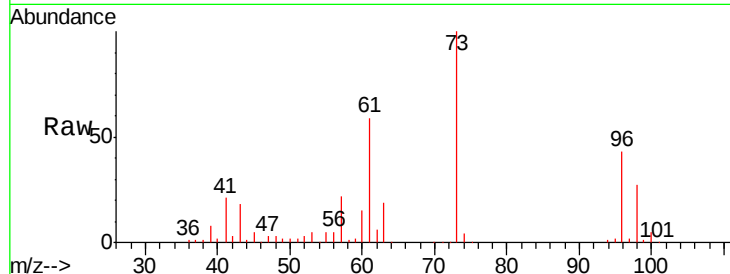
#21
trans-1,2-Dichloroethene
Concen: 47.642 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
96	100		
61	137.2	110.8	166.2
98	63.0	51.4	77.2

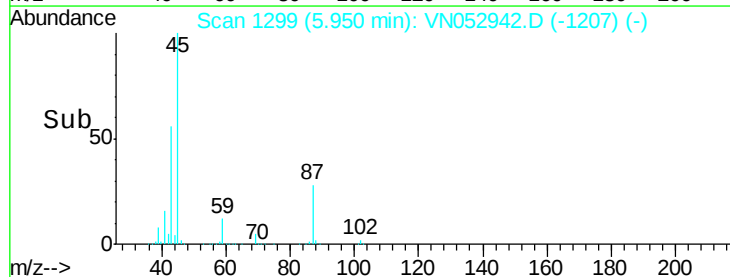
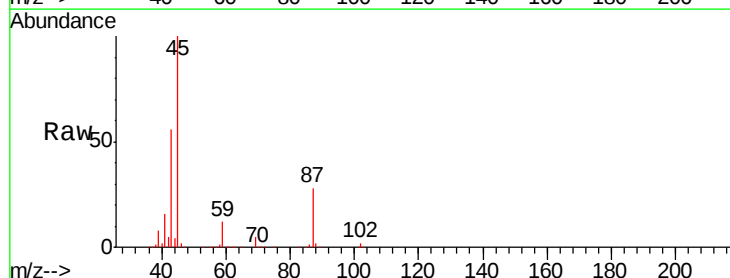
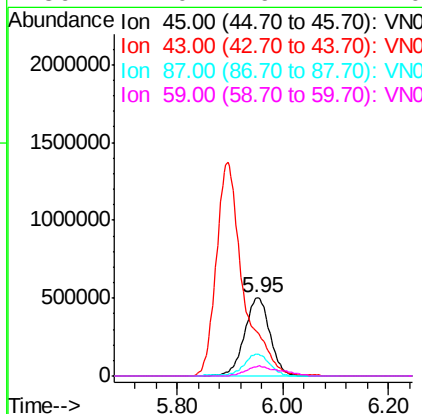
Manual Integrations
APPROVED

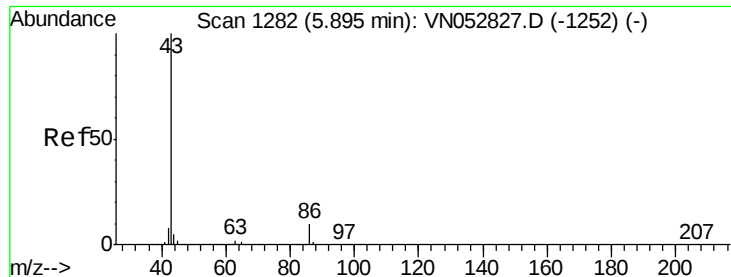
MMDadoda
12/18/2018 1:33:49 PM



#22
Diisopropyl ether
Concen: 49.304 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.2	45.5	68.3
87	27.9	22.0	33.0
59	12.0	9.4	14.0





#23

Vinyl Acetate

Concen: 235.509 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 4821924

Ion Ratio Lower Upper

43 100

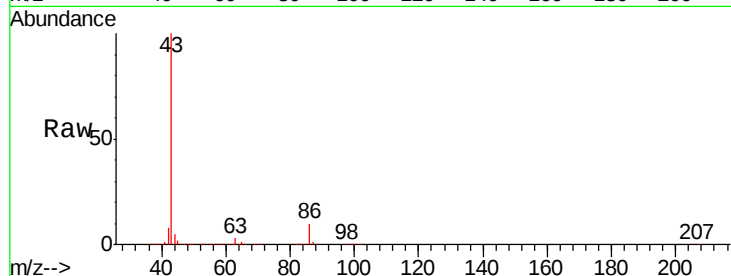
86 10.4 8.1 12.1

Manual Integrations

APPROVED

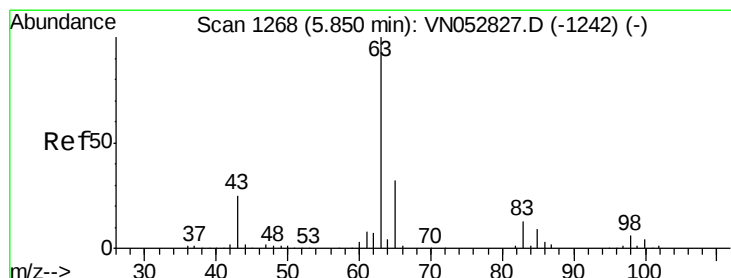
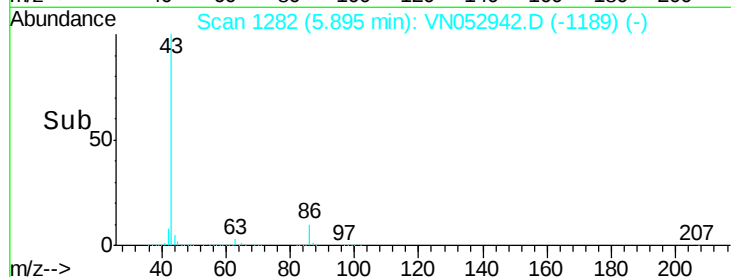
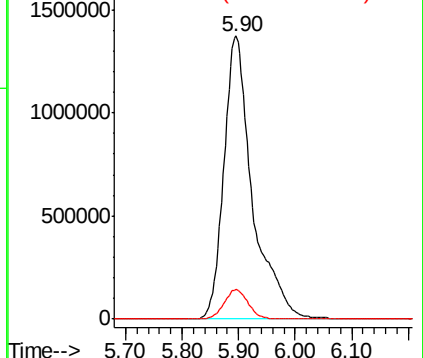
MMDadoda

12/18/2018 1:33:49 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 49.269 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

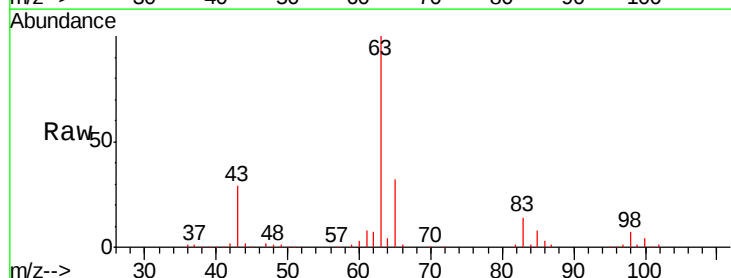
Tgt Ion: 63 Resp: 977622

Ion Ratio Lower Upper

63 100

98 6.7 3.1 9.4

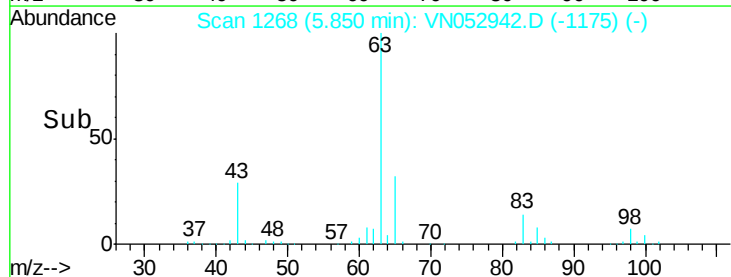
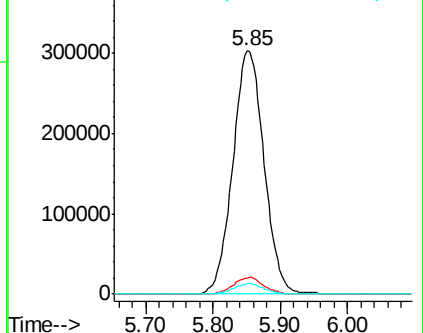
100 4.2 2.0 5.8

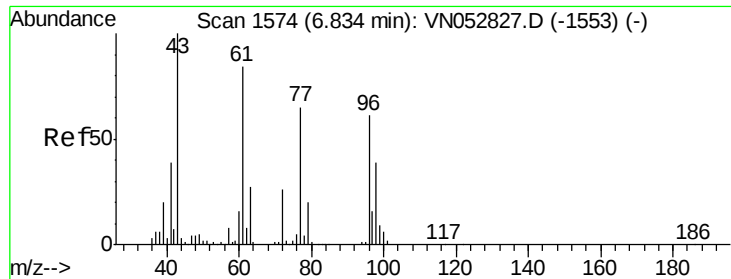


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





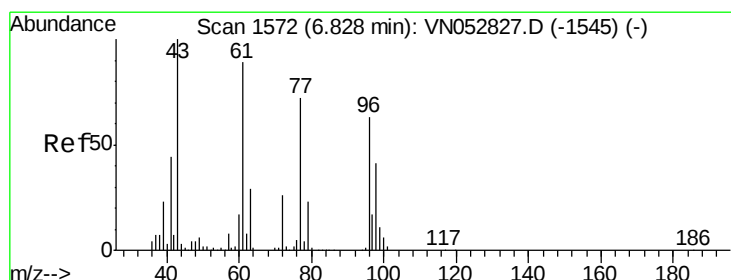
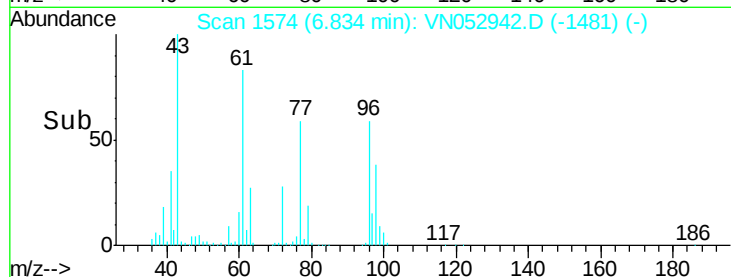
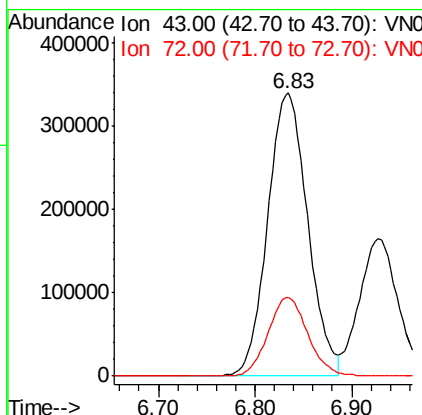
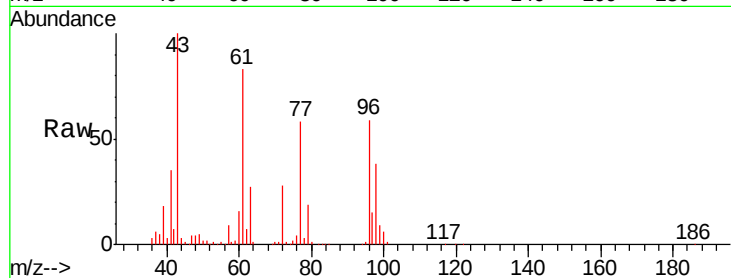
#25
2-Butanone
Concen: 245.136 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 975586
Ion Ratio Lower Upper
43 100
72 27.9 21.0 31.6

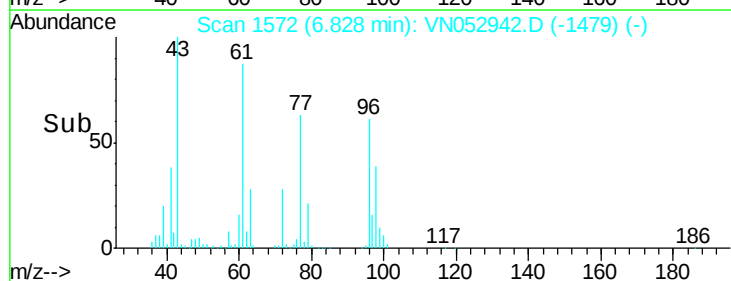
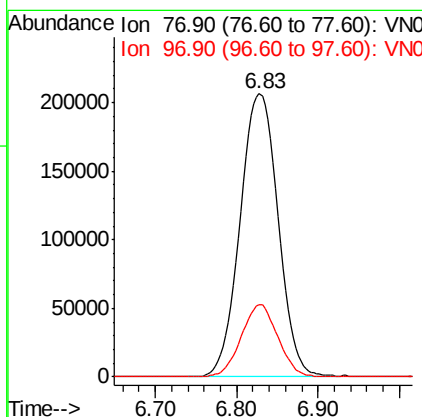
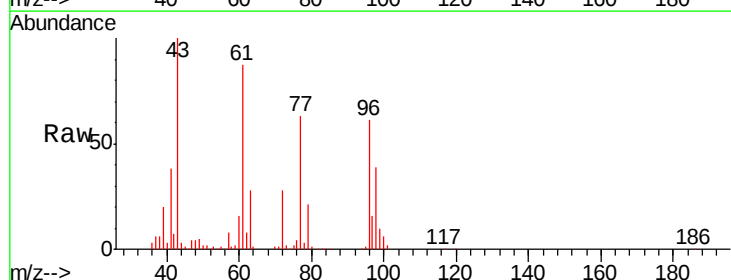
Manual Integrations
APPROVED

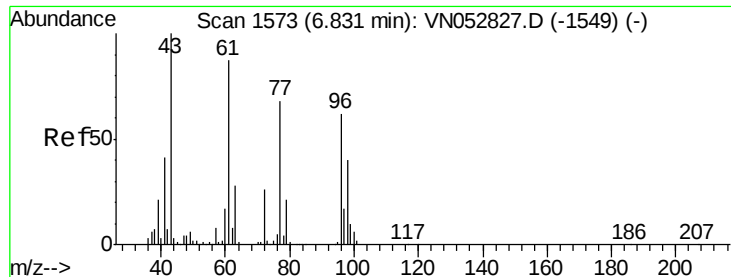
MMDadoda
12/18/2018 1:33:49 PM



#26
2,2-Dichloropropane
Concen: 45.726 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion: 77 Resp: 668166
Ion Ratio Lower Upper
77 100
97 24.6 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 48.836 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

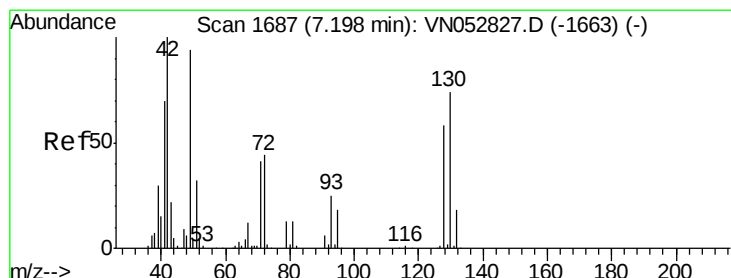
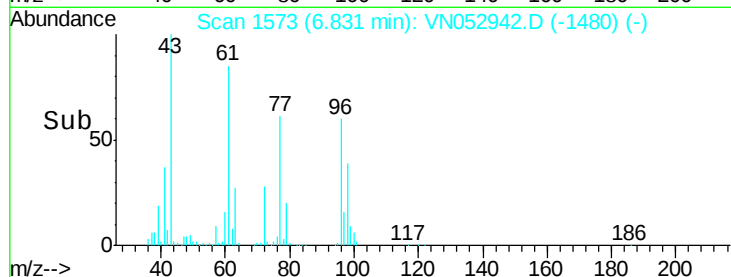
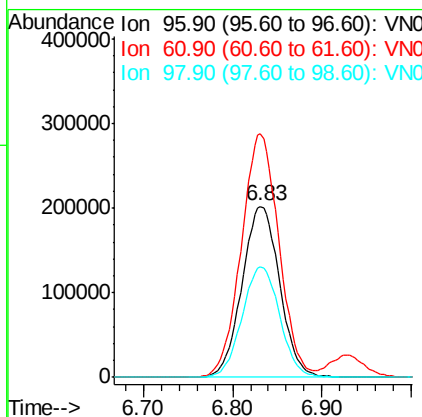
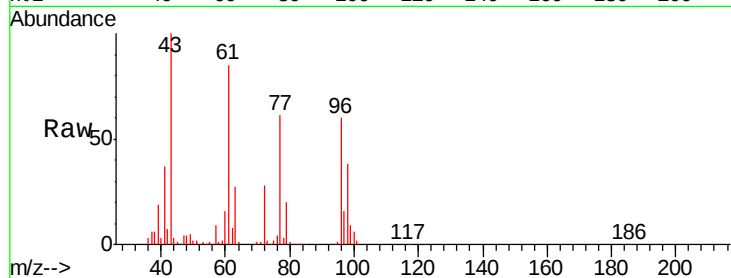
ClientSampleId :

VSTDCCC050

Tgt Ion:	96	Resp:	592973
Ion	Ratio	Lower	Upper
96	100		
61	142.0	0.0	284.2
98	64.8	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 49.945 ug/l

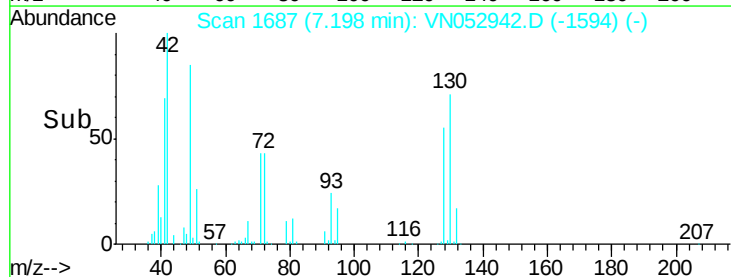
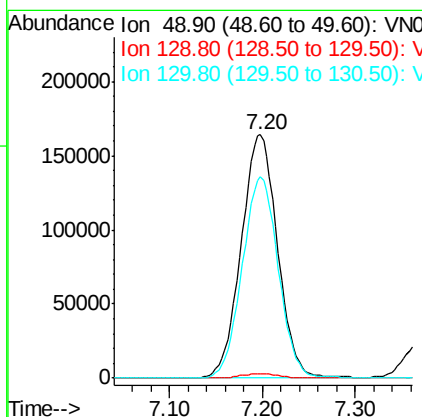
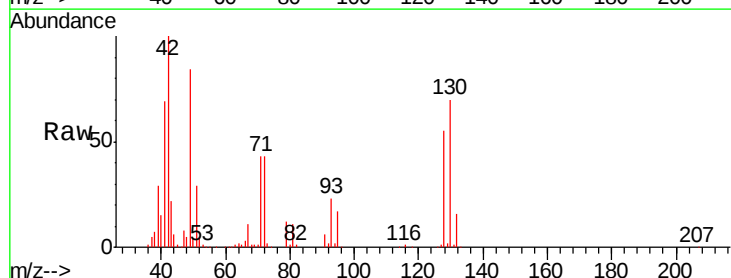
RT: 7.20 min Scan# 1687

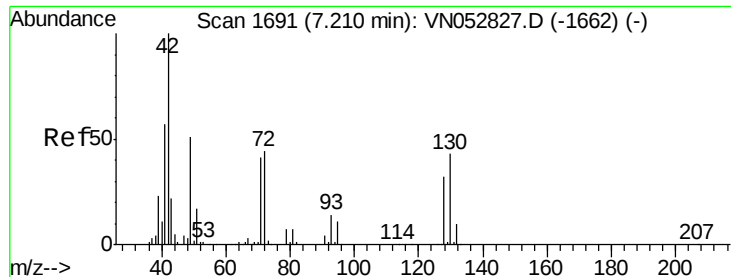
Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Tgt Ion:	49	Resp:	445015
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	82.6	63.3	94.9





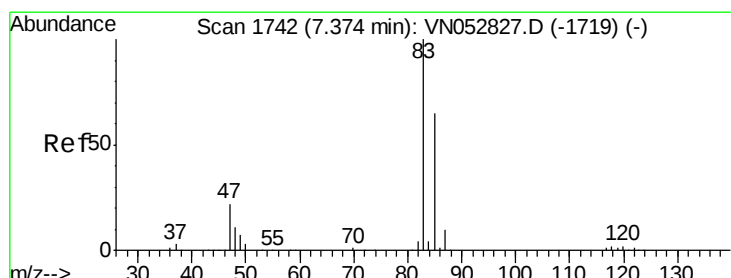
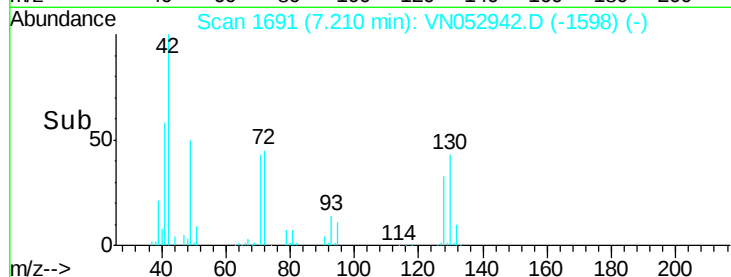
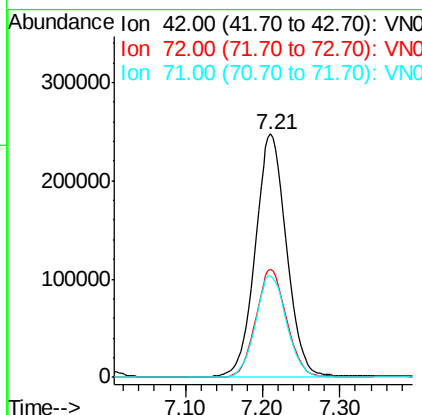
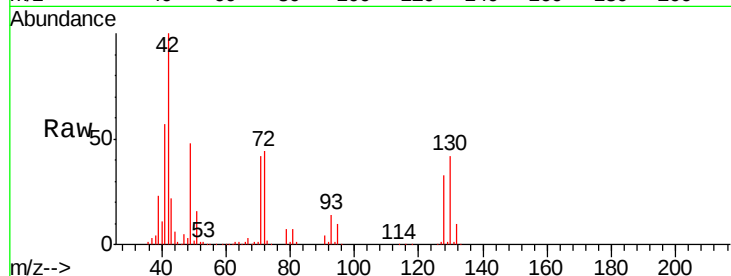
#29
Tetrahydrofuran
Concen: 256.215 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.9	34.7	52.1
71	41.7	32.3	48.5

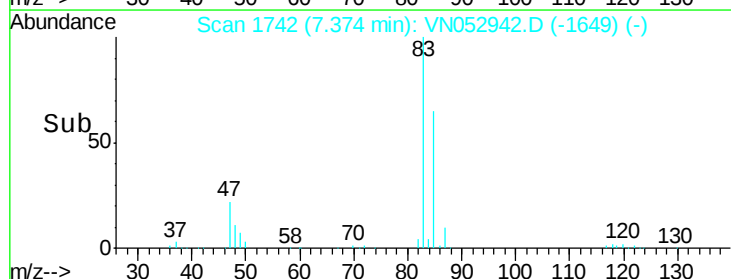
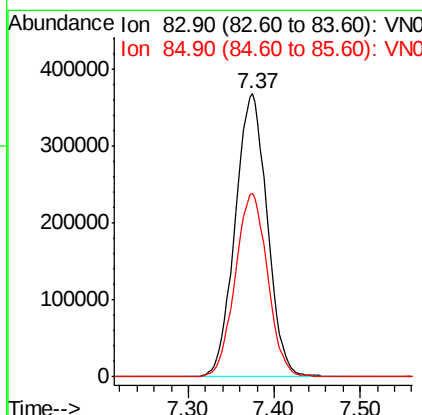
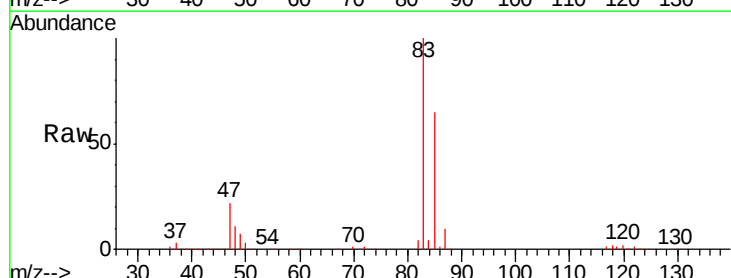
Manual Integrations
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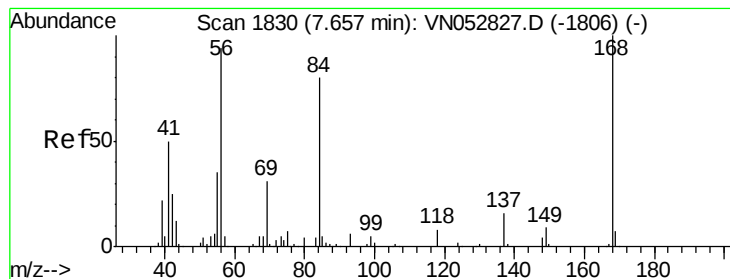
MMDadoda
12/18/2018 1:33:49 PM



#30
Chloroform
Concen: 49.357 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.1	78.1





#31

Cyclohexane

Concen: 46.024 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 891568
Ion Ratio Lower Upper

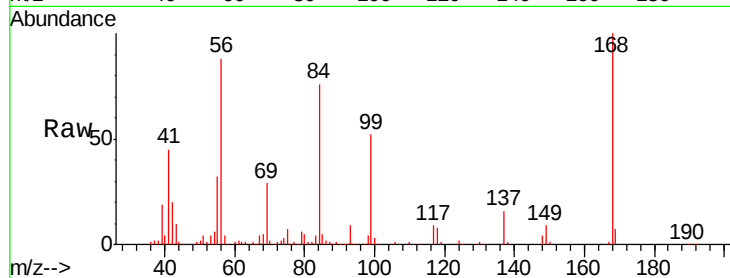
56 100

69 32.8 26.6 39.8

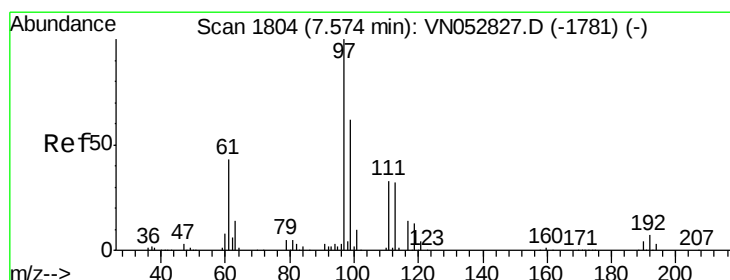
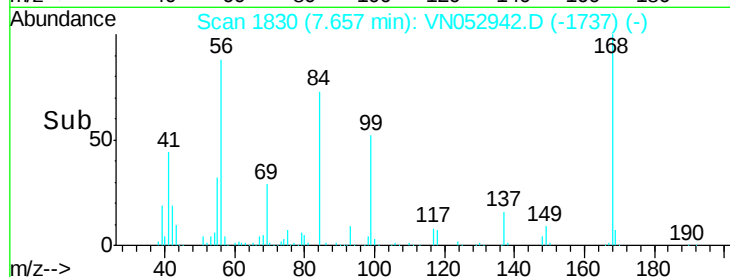
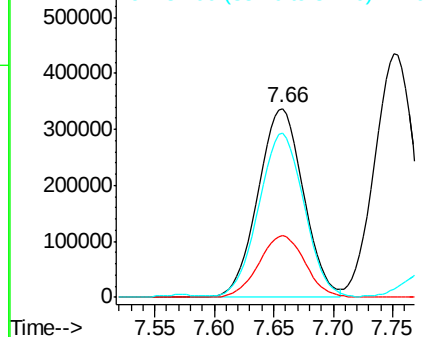
84 85.7 68.4 102.6

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 49.867 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052942.D

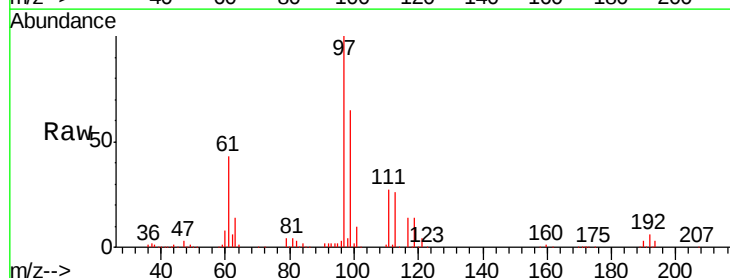
Acq: 17 Dec 2018 22:18

Tgt Ion: 97 Resp: 807321
Ion Ratio Lower Upper

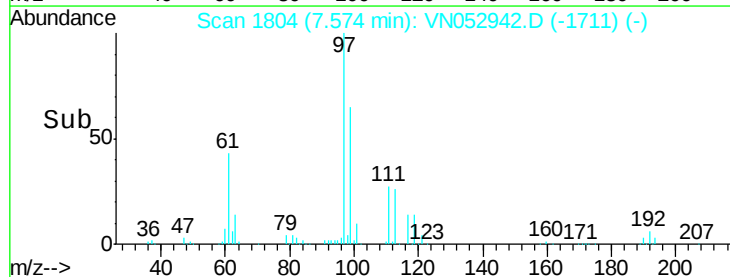
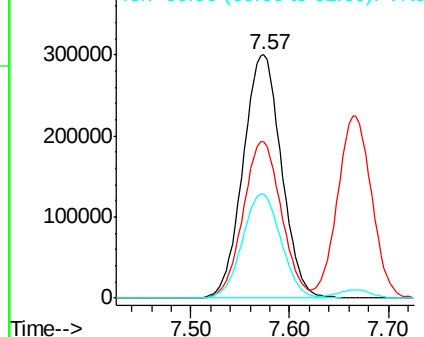
97 100

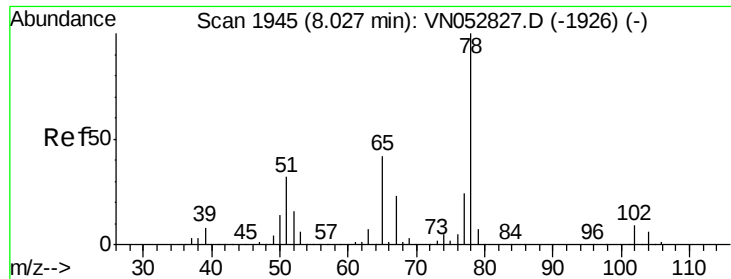
99 64.2 51.1 76.7

61 43.2 35.0 52.6



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





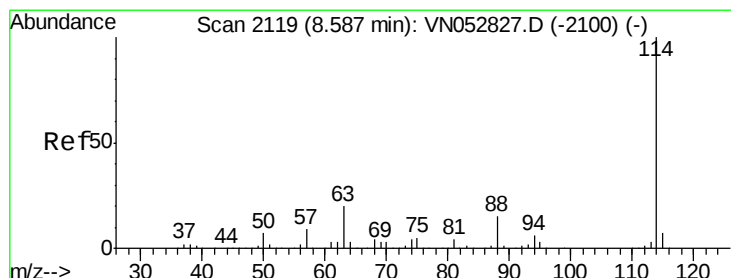
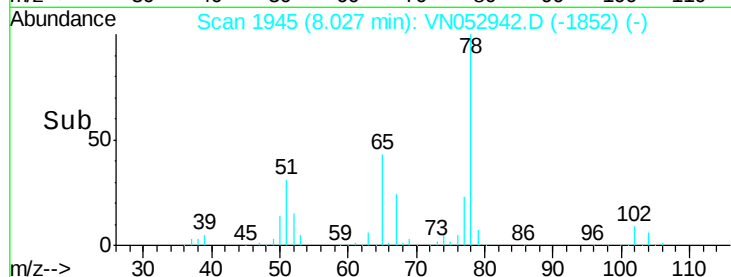
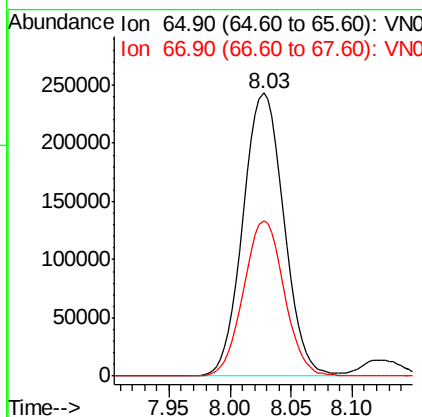
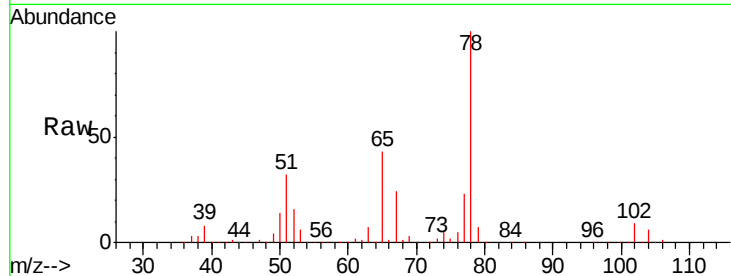
#33
 1,2-Dichloroethane-d4
 Concen: 49.867 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 65 Resp: 565012
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 110.4

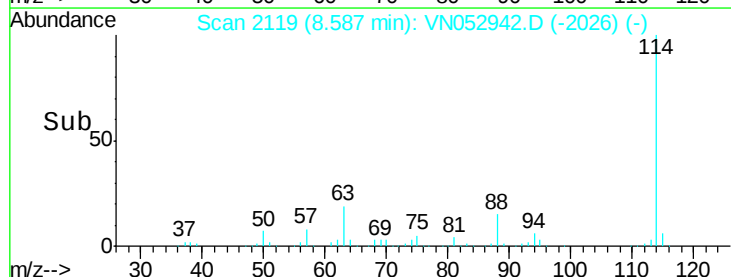
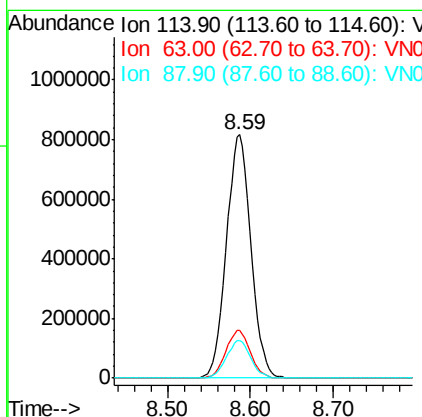
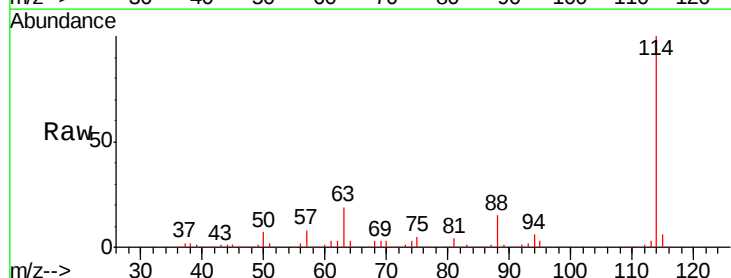
Manual Integrations
 APPROVED

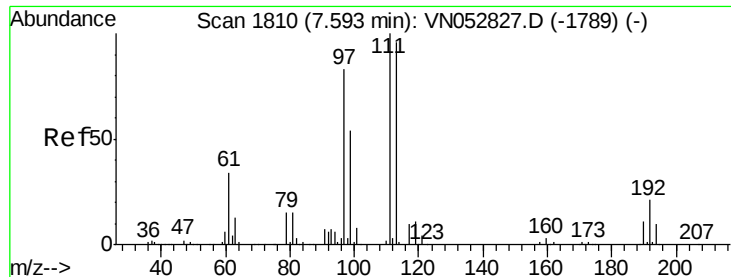
MMDadoda
 12/18/2018 1:33:49 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion: 114 Resp: 1673889
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.8
 88 15.4 0.0 31.0





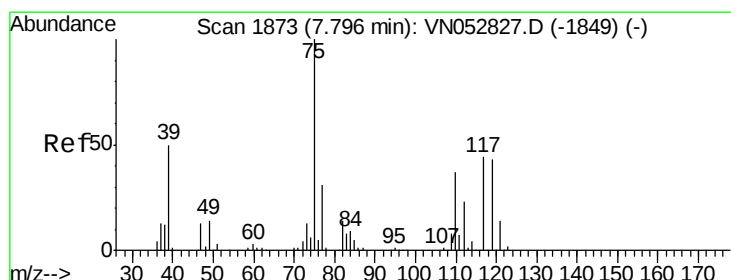
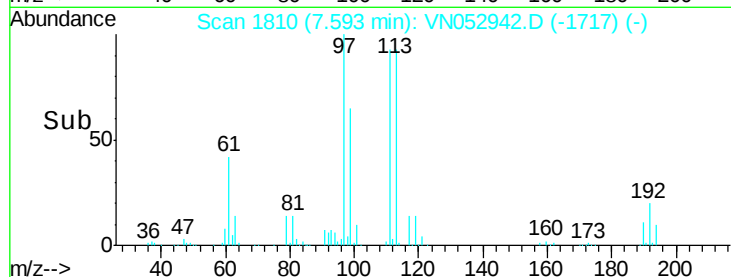
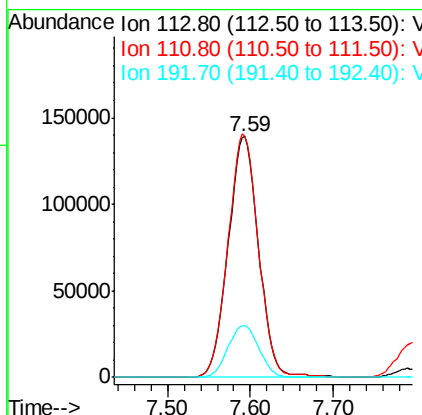
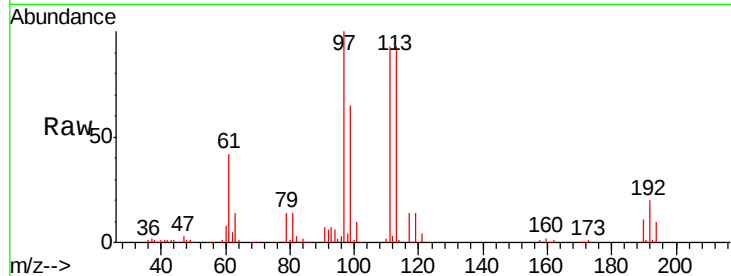
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	355178		
111	100.9	83.0	124.4	
192	21.8	17.5	26.3	

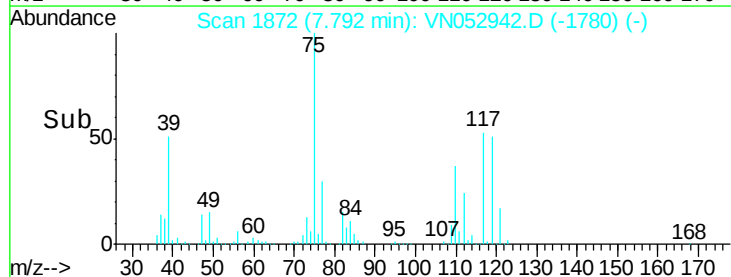
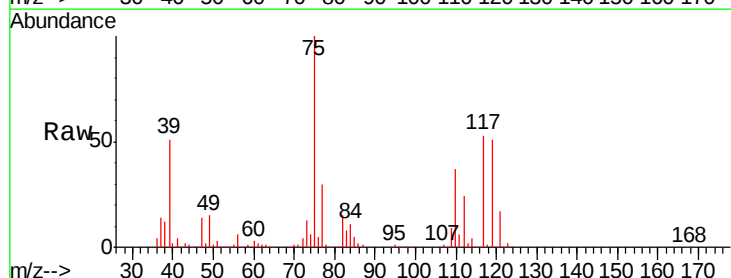
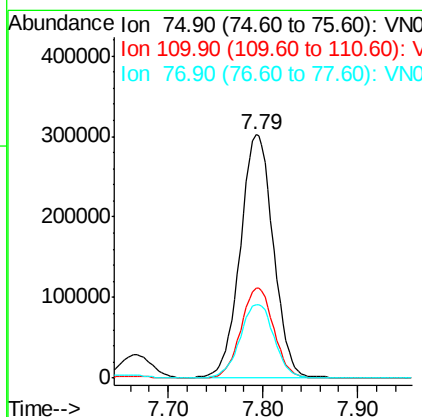
Manual Integrations
APPROVED

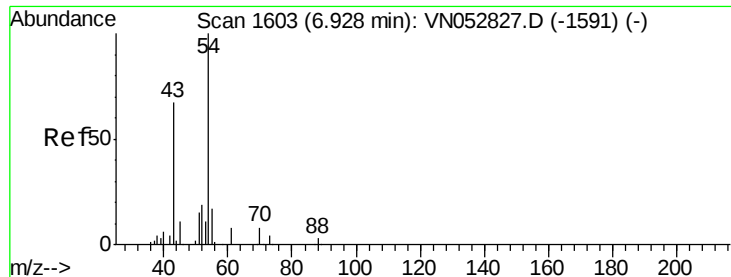
MMDadoda
12/18/2018 1:33:49 PM



#36
1,1-Dichloropropene
Concen: 47.372 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	730211		
110	36.8	18.2	54.6	
77	31.5	24.9	37.3	





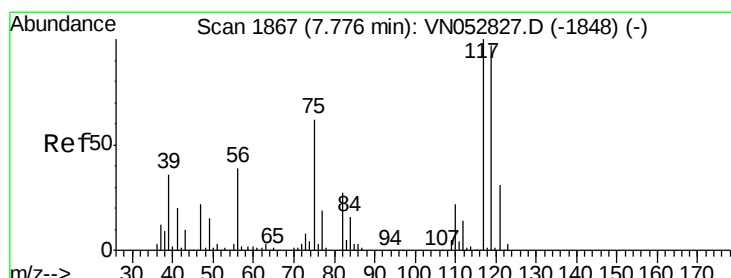
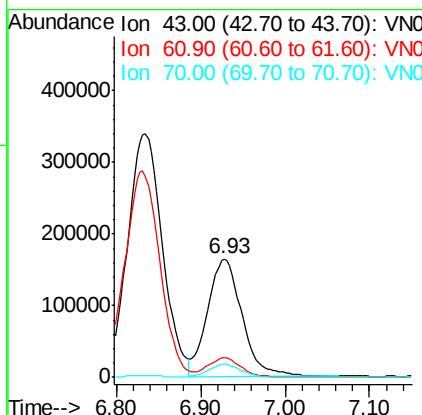
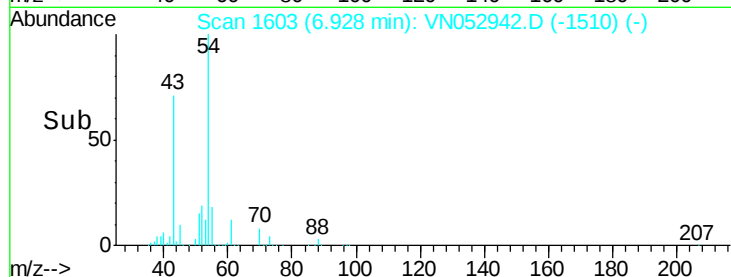
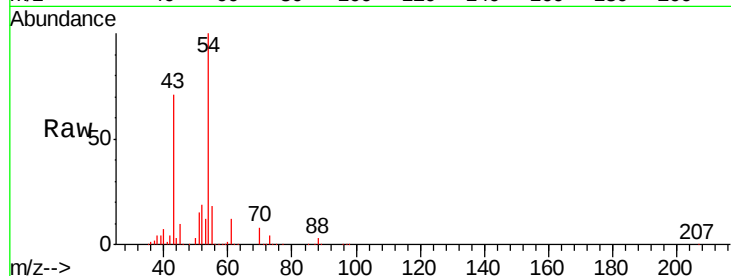
#37
Ethyl Acetate
Concen: 50.557 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.6
70	10.6	8.4	12.6

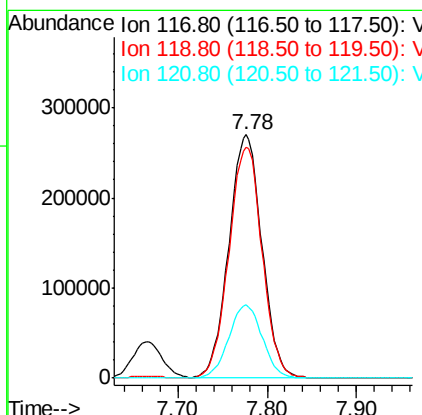
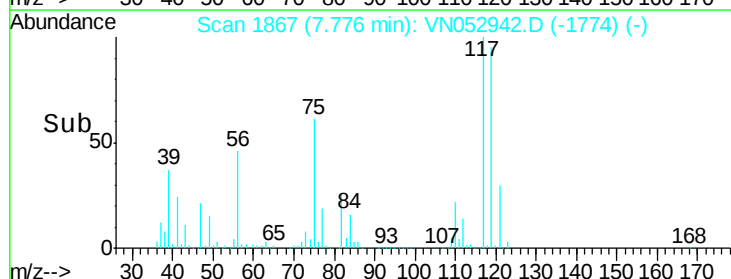
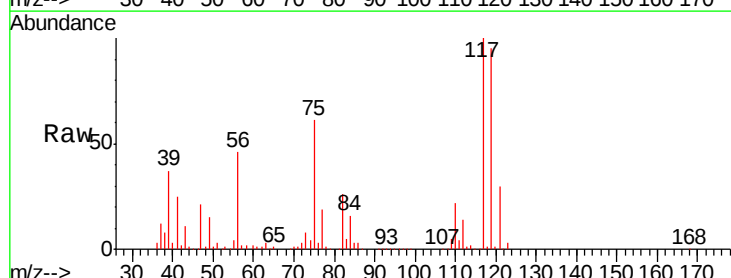
Manual Integrations
APPROVED

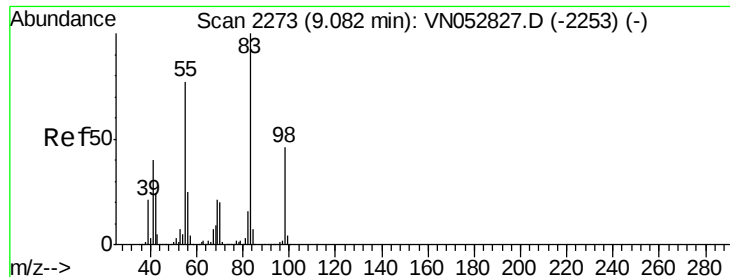
MMDadoda
12/18/2018 1:33:49 PM



#38
Carbon Tetrachloride
Concen: 48.649 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.1	115.7
121	29.9	24.9	37.3





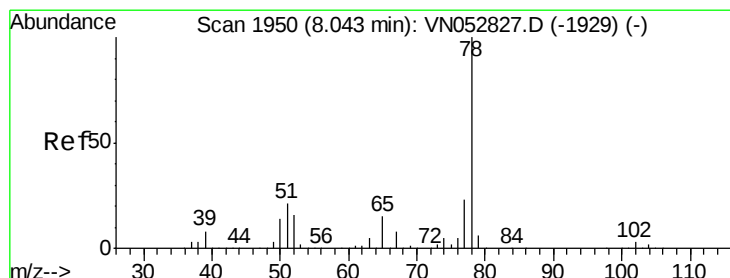
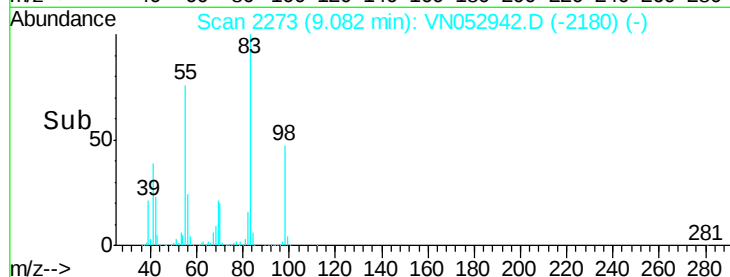
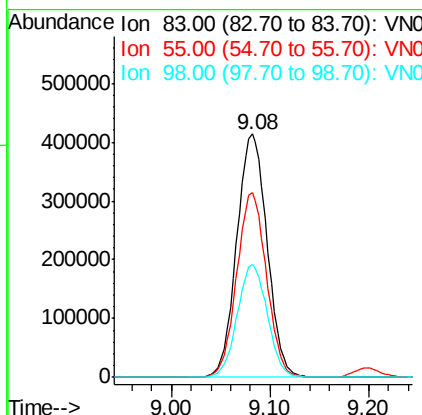
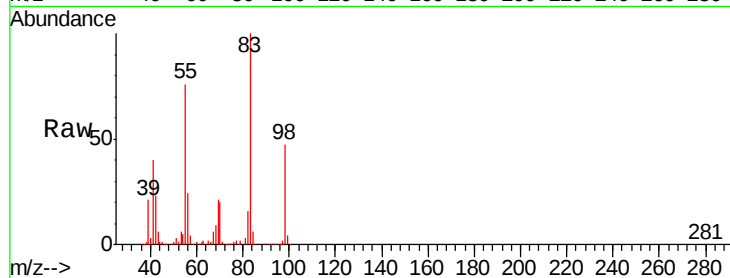
#39
Methylcyclohexane
Concen: 46.668 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
83	100		
55	75.9	61.3	91.9
98	46.7	37.0	55.4

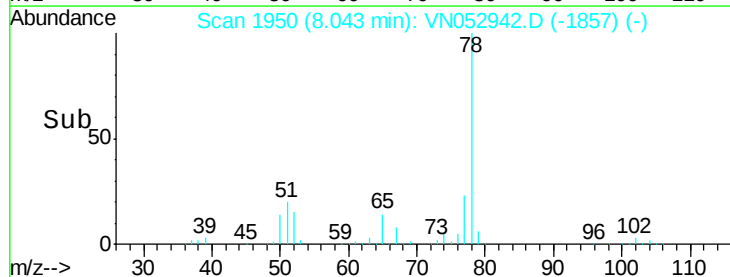
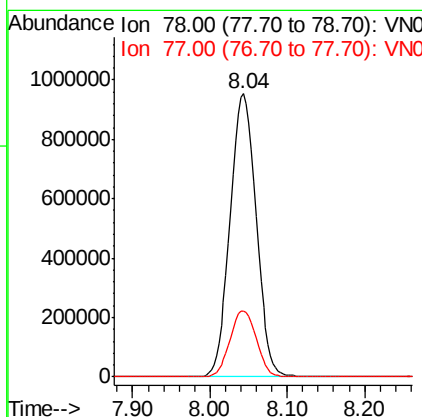
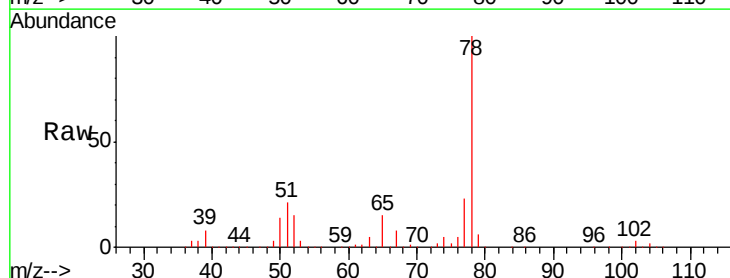
Manual Integrations
APPROVED

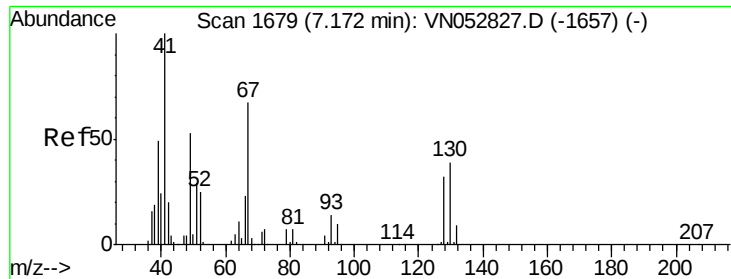
MMDadoda
12/18/2018 1:33:49 PM



#40
Benzene
Concen: 48.194 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.5	27.7





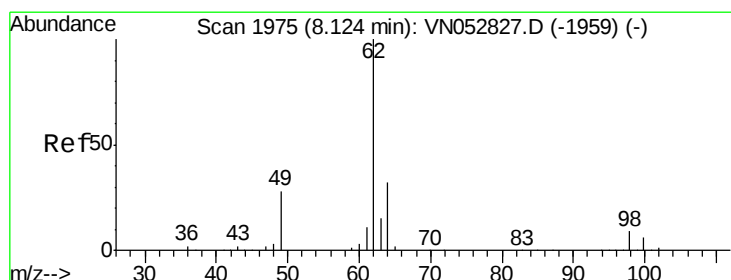
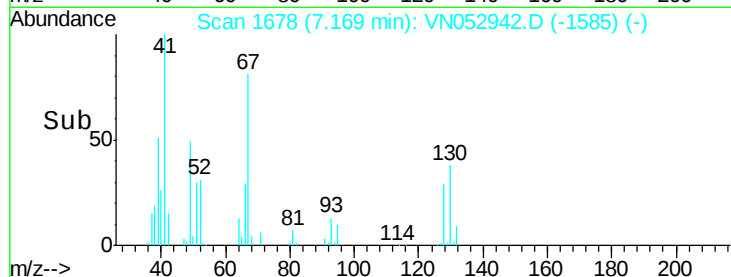
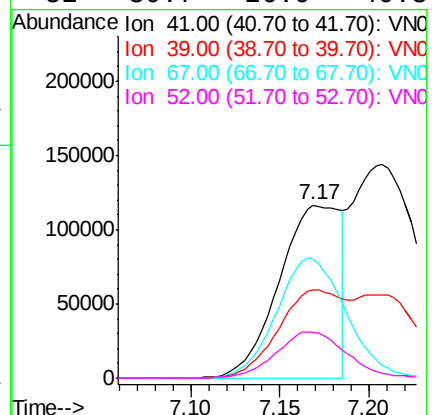
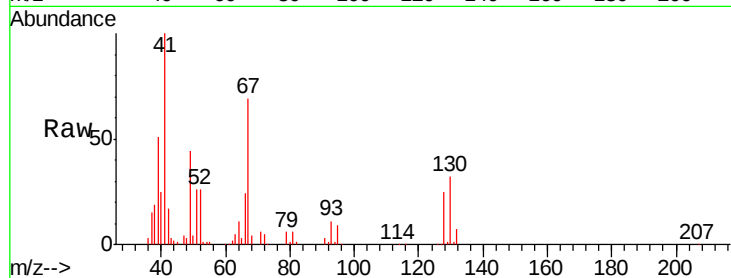
#41
Methacrylonitrile
Concen: 53.965 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
41	100		
39	54.5	48.0	72.0
67	79.9	70.3	105.5
52	30.7	26.9	40.3

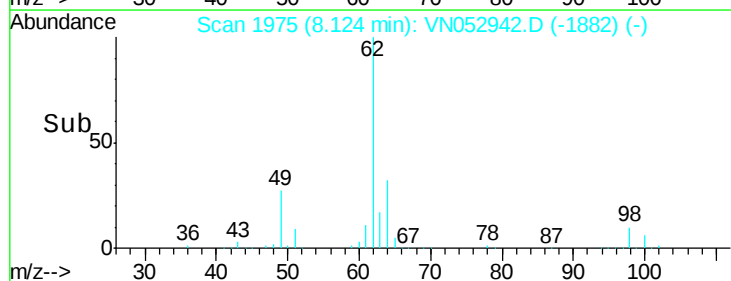
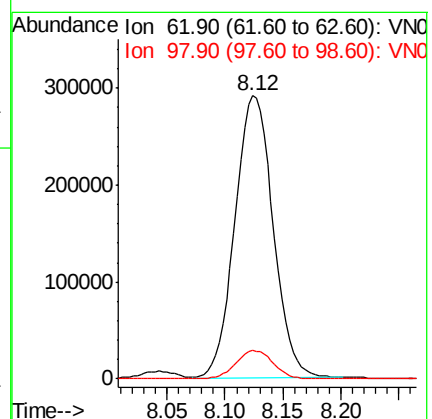
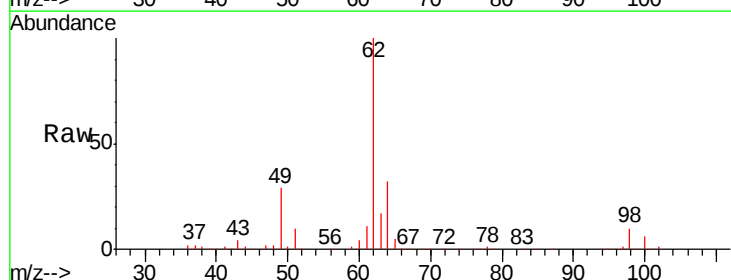
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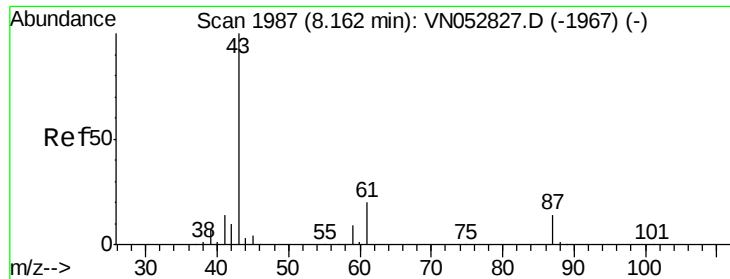
MMDadoda
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#42
1,2-Dichloroethane
Concen: 48.056 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0





#43

Isopropyl Acetate

Concen: 47.819 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

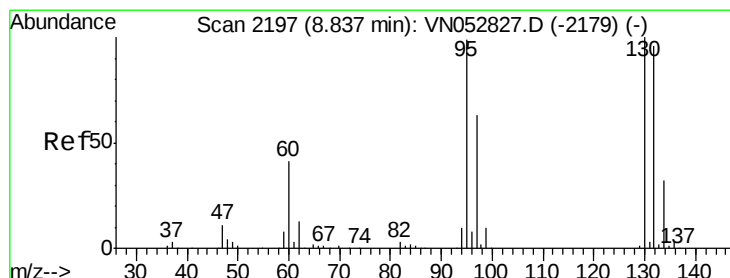
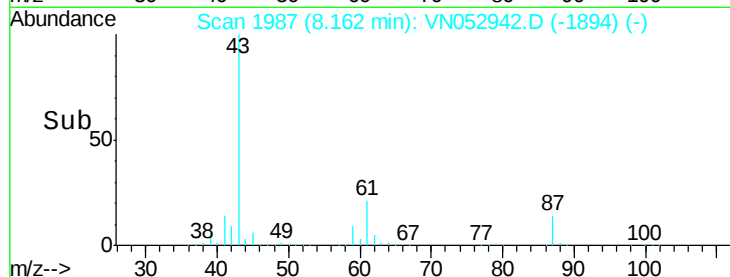
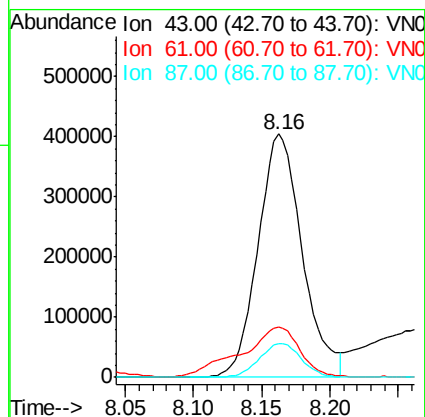
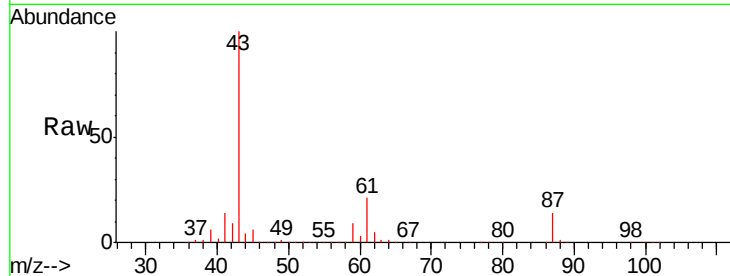
ClientSampleId :

VSTDCCC050

Tgt Ion:	43	Resp:	907861
Ion	Ratio	Lower	Upper
43	100		
61	27.1	22.9	34.3
87	13.3	10.6	15.8

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#44

Trichloroethene

Concen: 50.512 ug/l

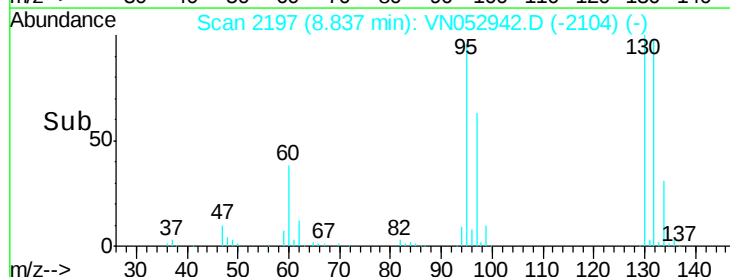
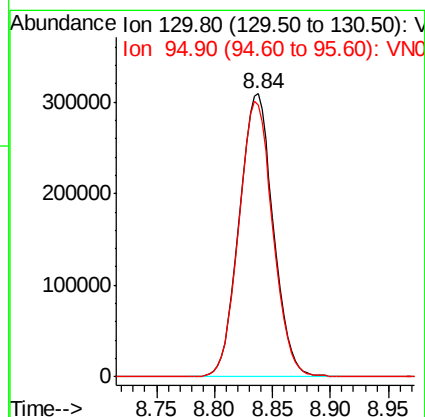
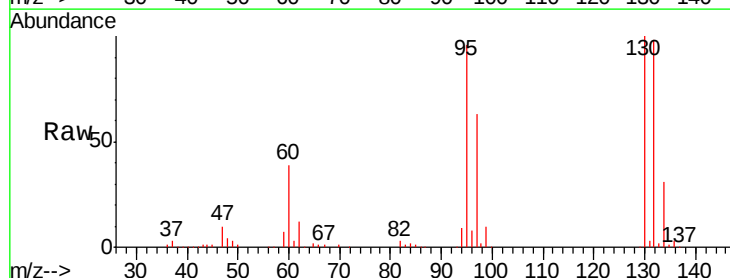
RT: 8.84 min Scan# 2197

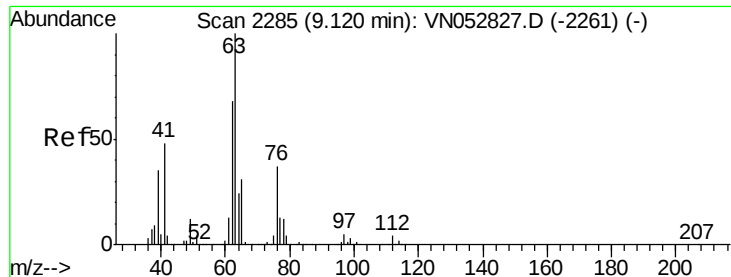
Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Tgt Ion:	130	Resp:	631215
Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	197.8





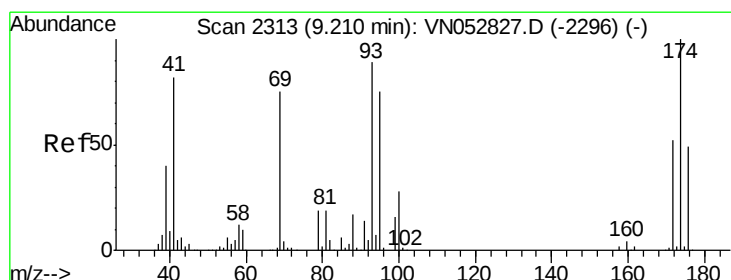
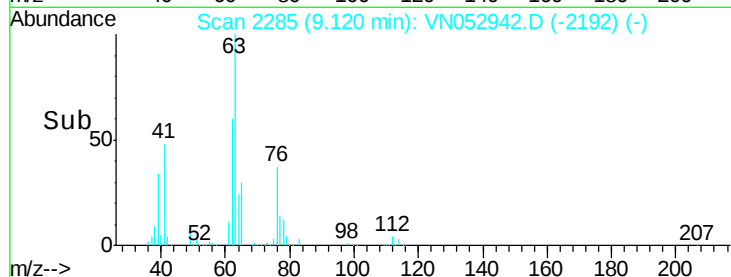
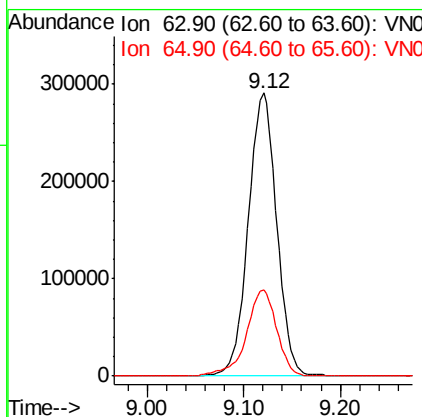
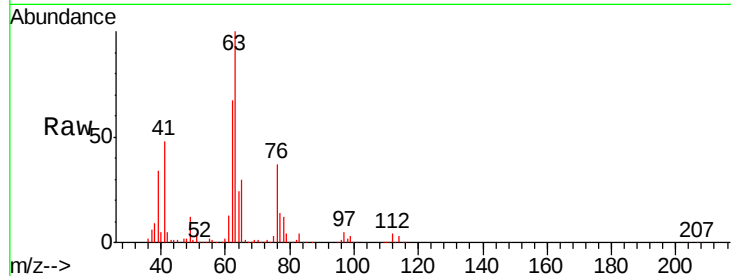
#45
 1,2-Dichloropropane
 Concen: 49.044 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 63 Resp: 594297
 Ion Ratio Lower Upper
 63 100
 65 30.3 24.6 37.0

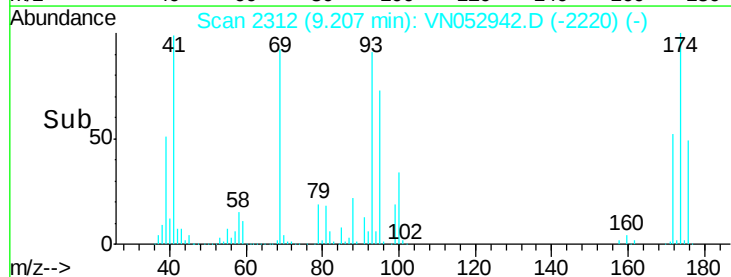
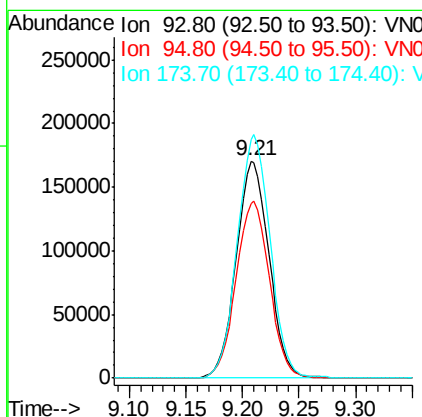
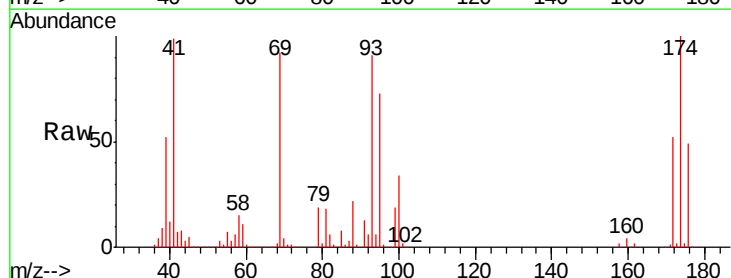
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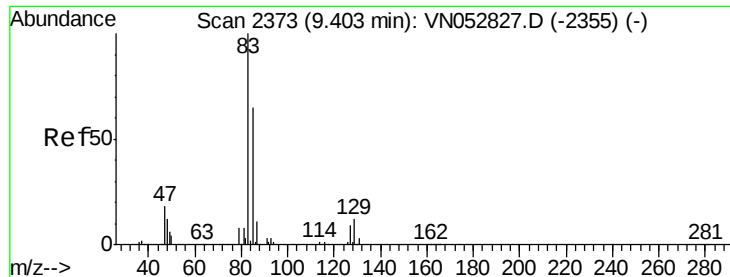
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#46
 Dibromomethane
 Concen: 49.272 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion: 93 Resp: 346263
 Ion Ratio Lower Upper
 93 100
 95 83.1 67.8 101.6
 174 112.2 89.0 133.4





#47

Bromodichloromethane

Concen: 49.902 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

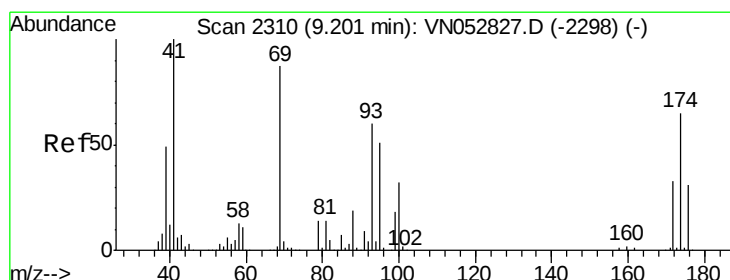
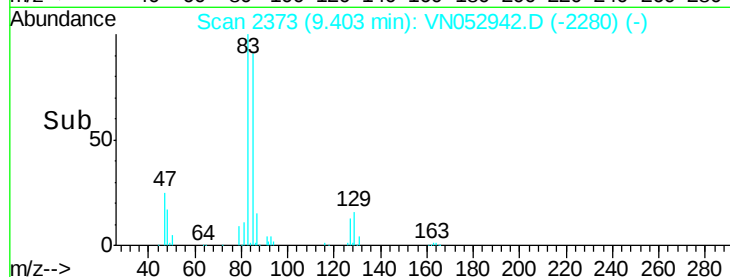
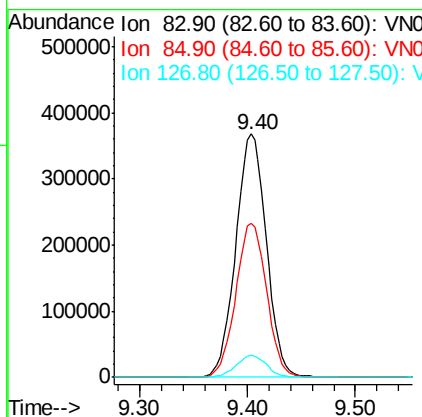
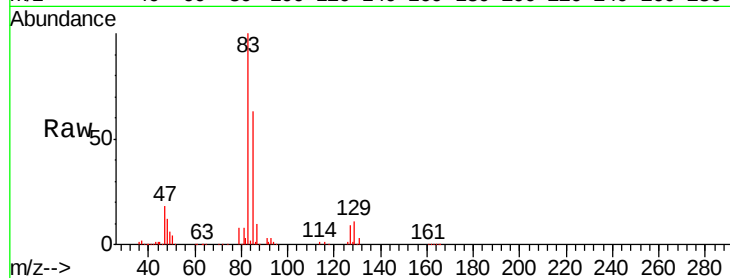
ClientSampleId :

VSTDCCC050

Tgt Ion:	83	Resp:	727224
Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.6	77.4
127	8.9	7.1	10.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 51.824 ug/l

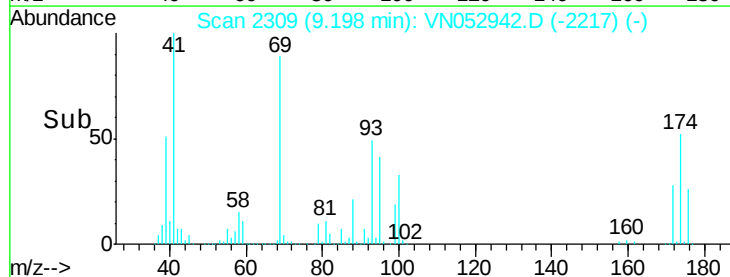
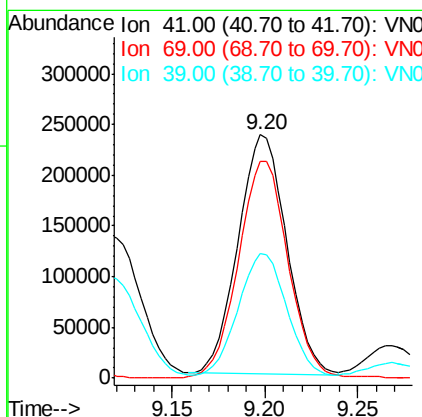
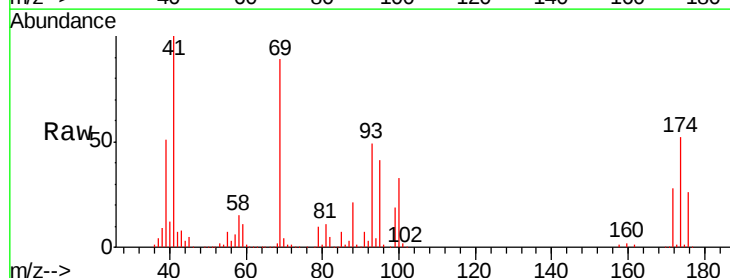
RT: 9.20 min Scan# 2309

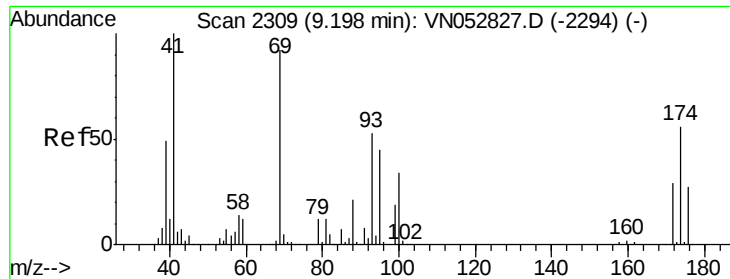
Delta R.T. -0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Tgt Ion:	41	Resp:	431486
Ion	Ratio	Lower	Upper
41	100		
69	93.0	72.2	108.2
39	53.3	41.9	62.9





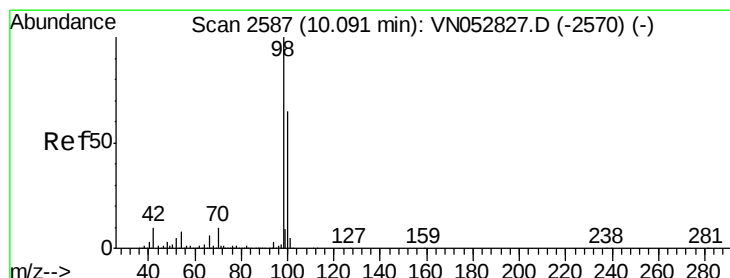
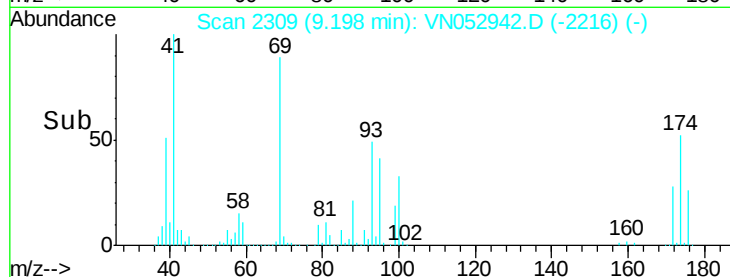
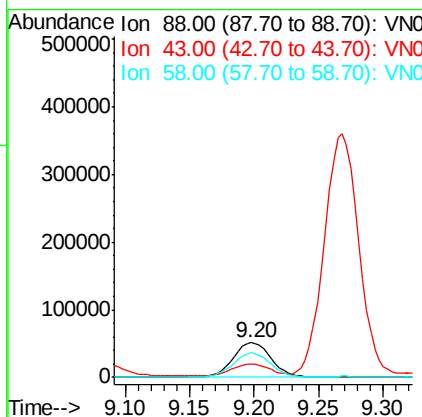
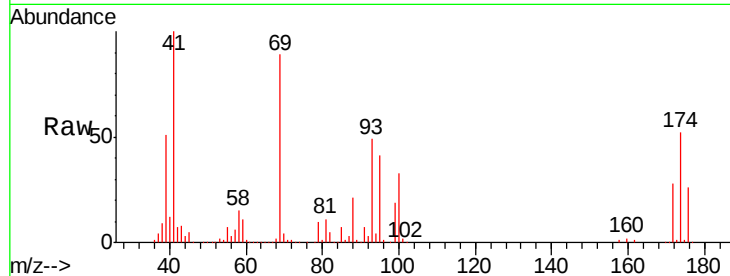
#49
1,4-Dioxane
Concen: 1123.205 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
88	100		
43	32.8	26.6	40.0
58	70.0	58.4	87.6

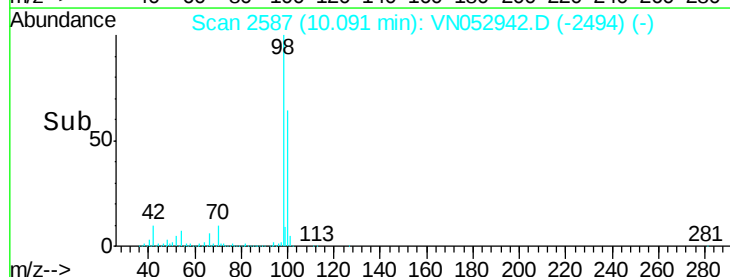
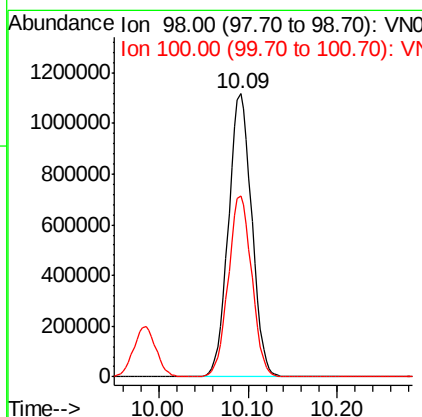
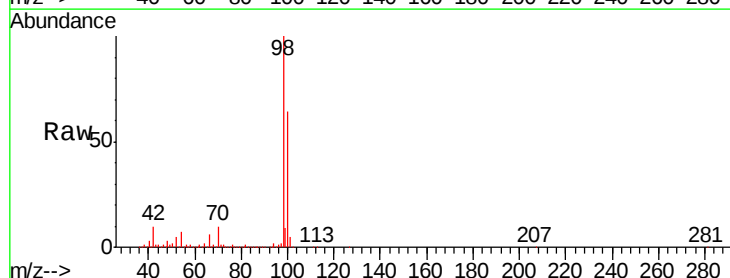
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#50
Toluene-d8
Concen: 1123.205 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.6	77.4





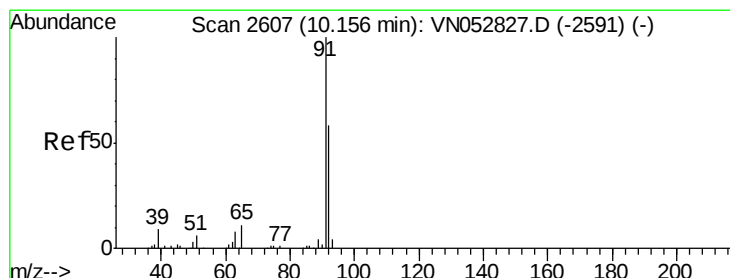
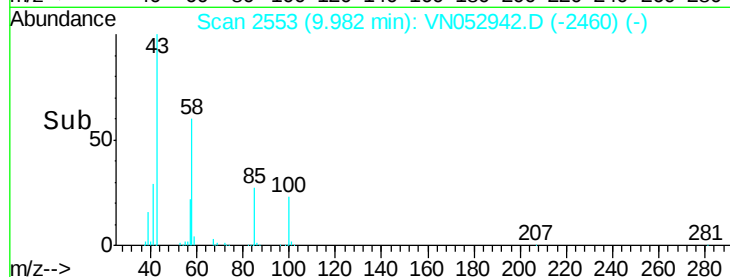
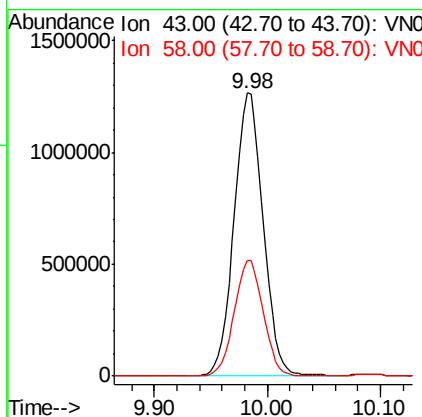
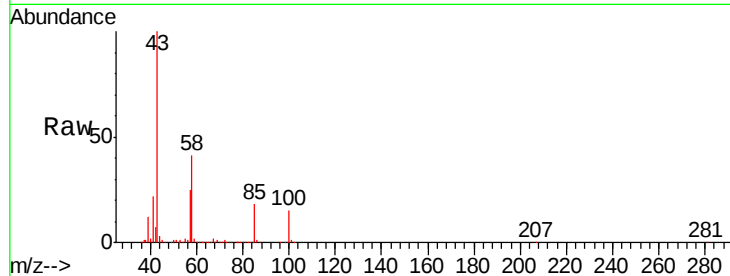
#51
4-Methyl-2-Pentanone
Concen: 259.583 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2259824
Ion Ratio Lower Upper
43 100
58 40.9 32.2 48.4

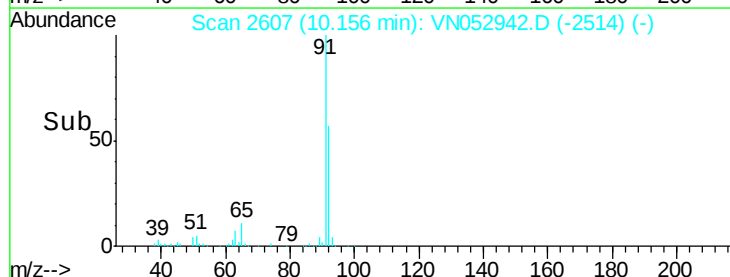
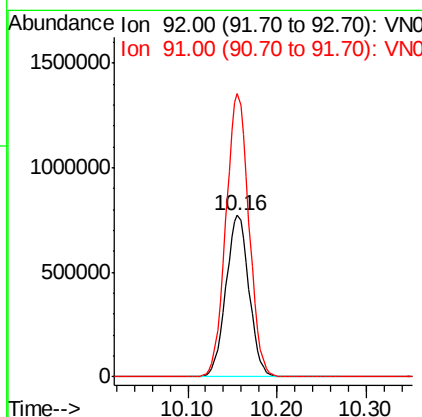
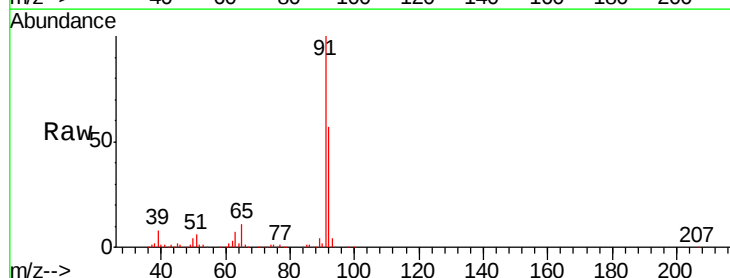
Manual Integrations
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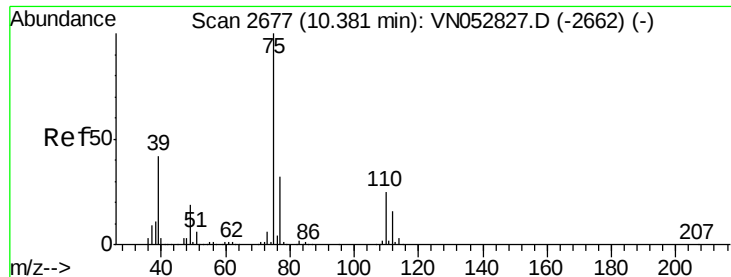
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#52
Toluene
Concen: 49.295 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion: 92 Resp: 1381258
Ion Ratio Lower Upper
92 100
91 175.0 139.8 209.6





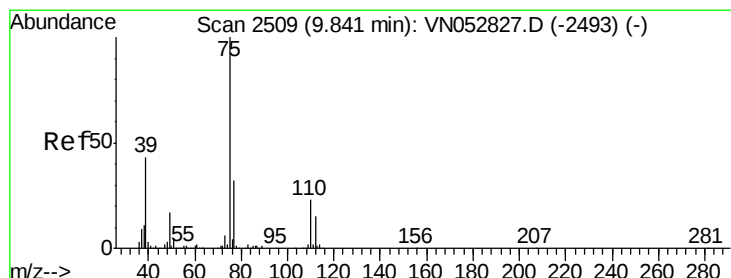
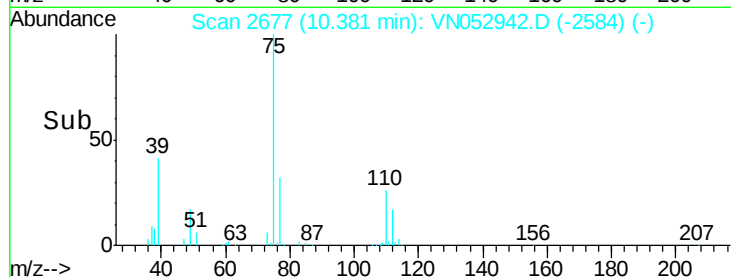
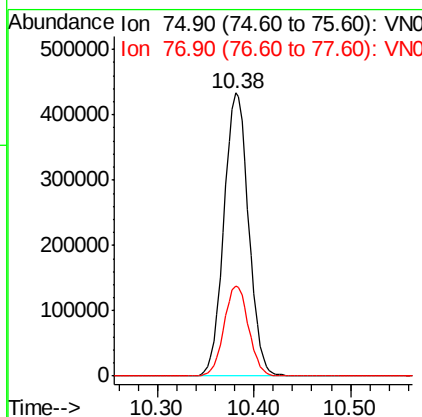
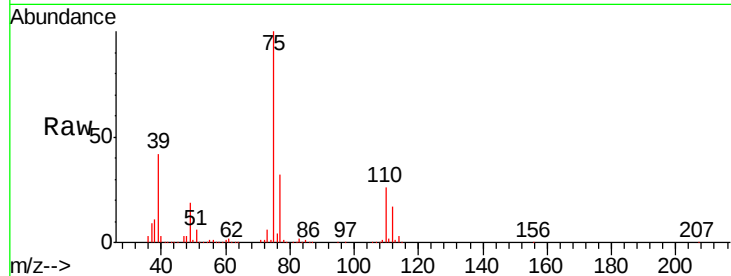
#53
t-1,3-Dichloropropene
Concen: 52.363 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 767887
Ion Ratio Lower Upper
75 100
77 31.9 25.6 38.4

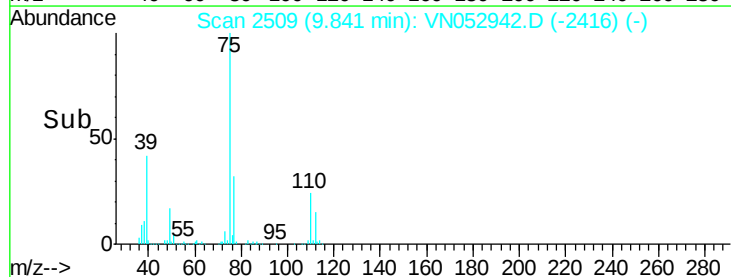
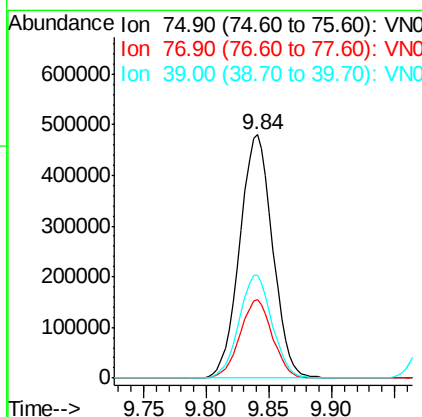
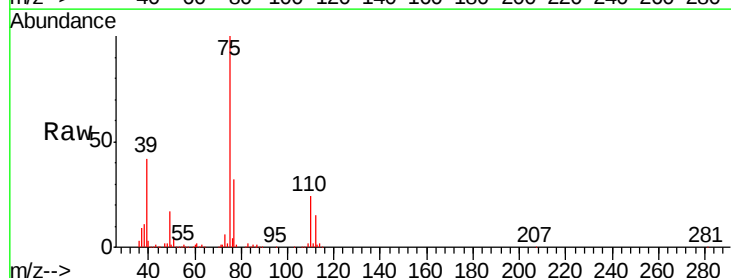
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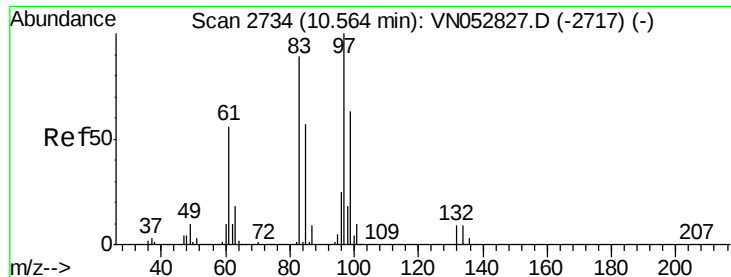
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#54
cis-1,3-Dichloropropene
Concen: 50.185 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion: 75 Resp: 876970
Ion Ratio Lower Upper
75 100
77 32.0 25.8 38.8
39 42.3 34.8 52.2





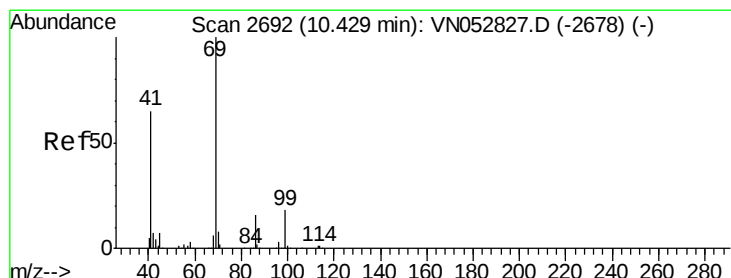
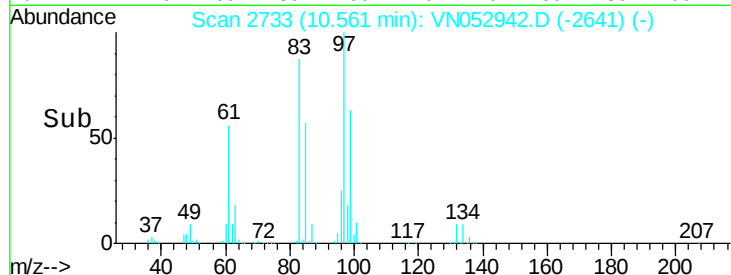
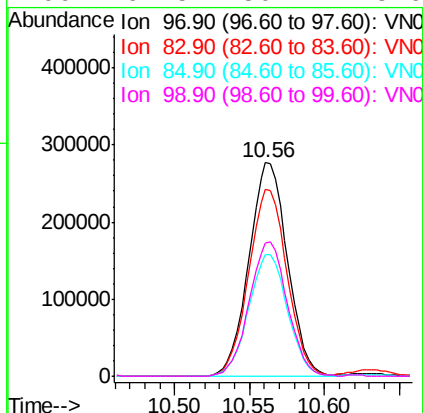
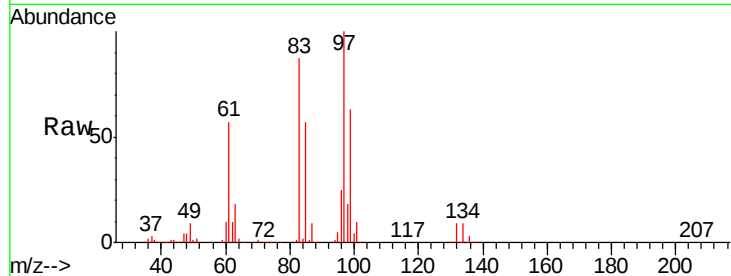
#55
 1,1,2-Trichloroethane
 Concen: 49.587 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:	97	Resp:	495988
Ion	Ratio	Lower	Upper
97	100		
83	87.2	70.9	106.3
85	56.9	45.4	68.2
99	62.5	50.4	75.6

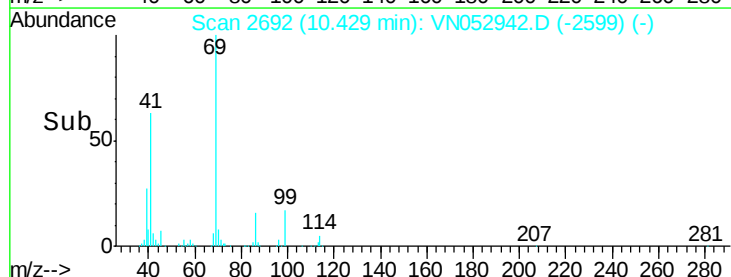
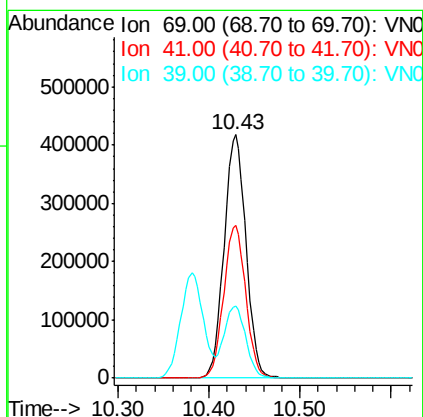
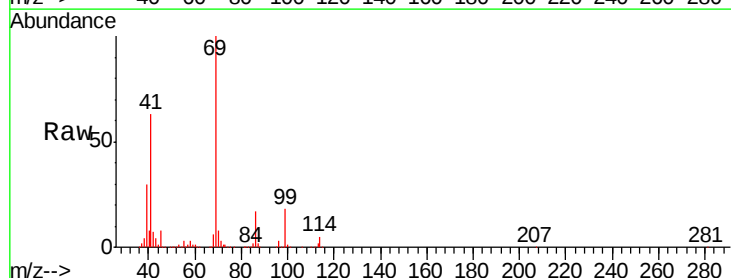
Manual Integrations
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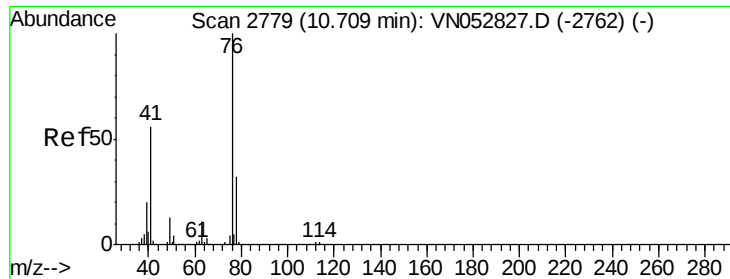
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#56
 Ethyl methacrylate
 Concen: 54.435 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion:	69	Resp:	698754
Ion	Ratio	Lower	Upper
69	100		
41	62.7	51.7	77.5
39	29.4	24.6	37.0





#57

1,3-Dichloropropane

Concen: 49.896 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 855846

Ion Ratio Lower Upper

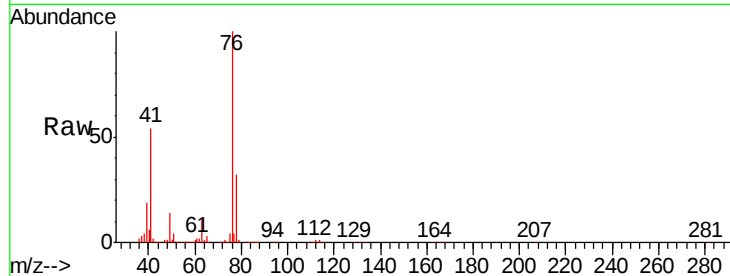
76 100

78 32.2 25.8 38.8

Manual Integrations
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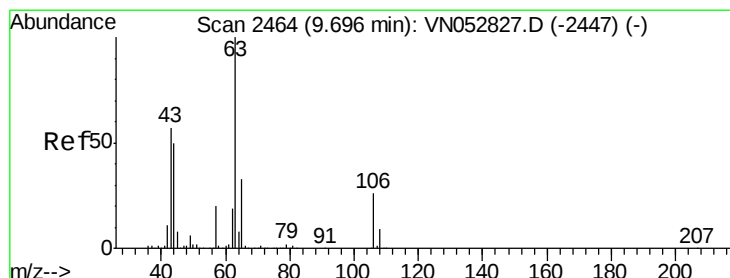
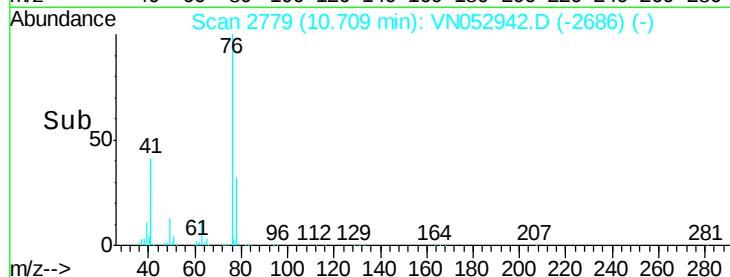
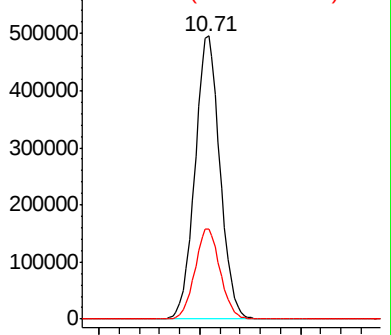
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 267.528 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052942.D

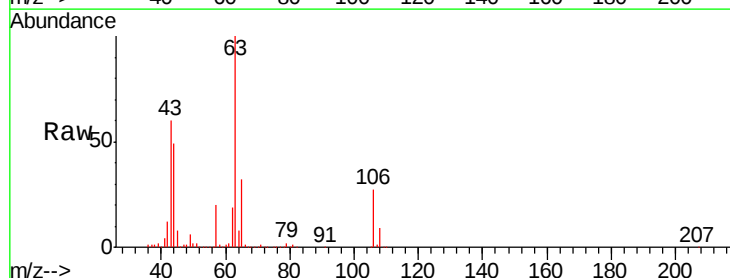
Acq: 17 Dec 2018 22:18

Tgt Ion: 63 Resp: 1916172

Ion Ratio Lower Upper

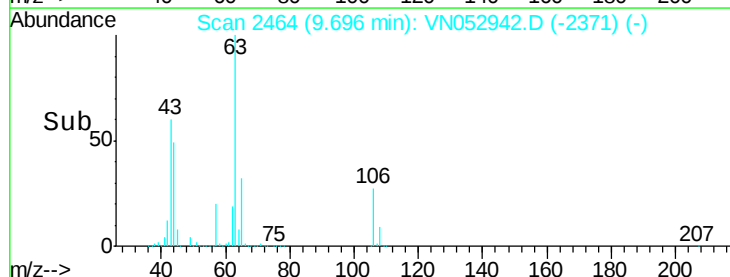
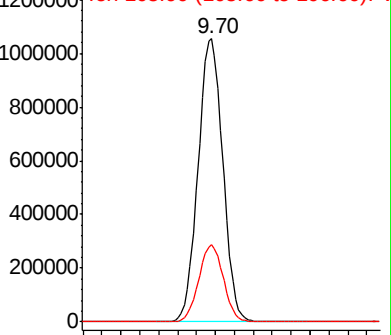
63 100

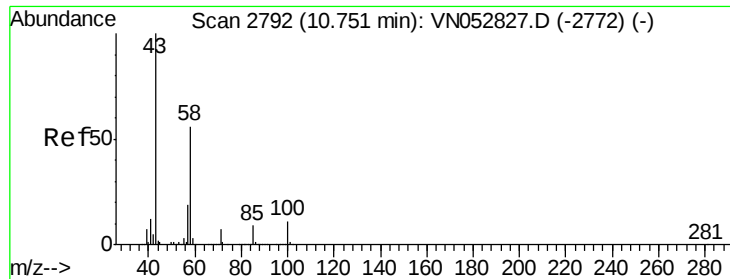
106 27.0 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





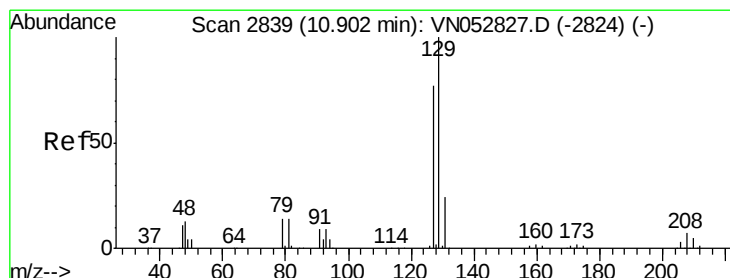
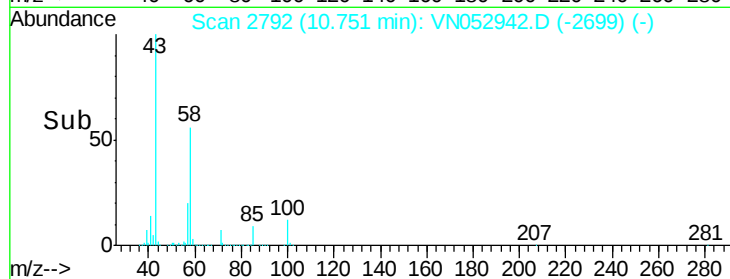
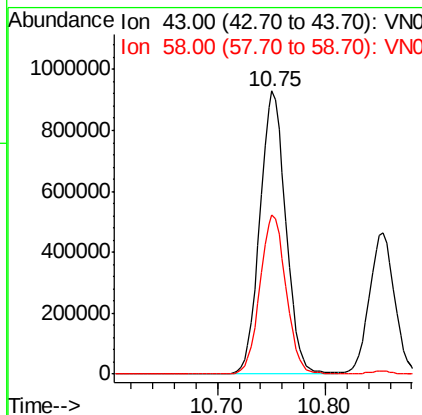
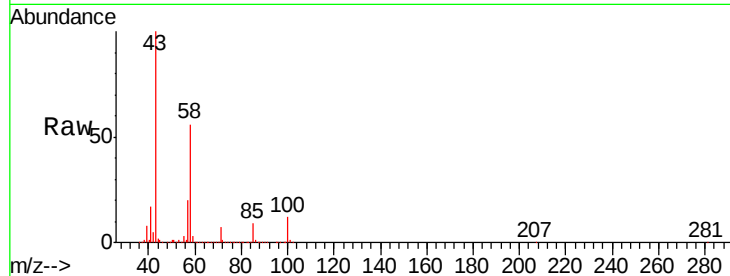
#59
2-Hexanone
Concen: 258.441 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1541890
Ion Ratio Lower Upper
43 100
58 56.6 28.1 84.3

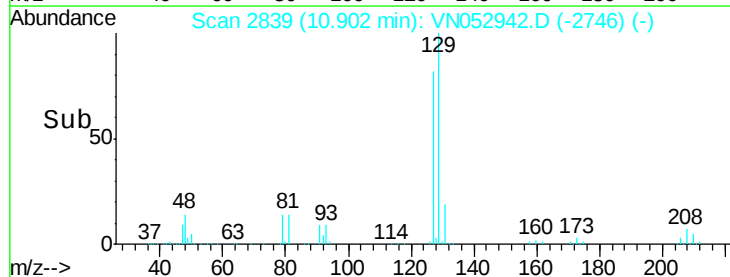
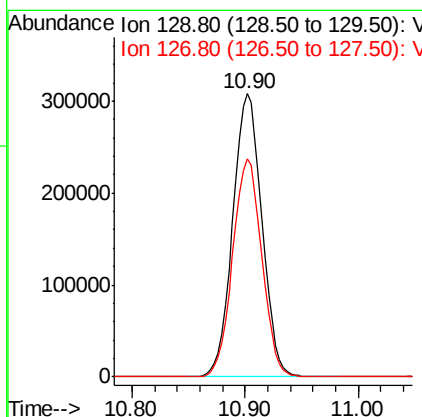
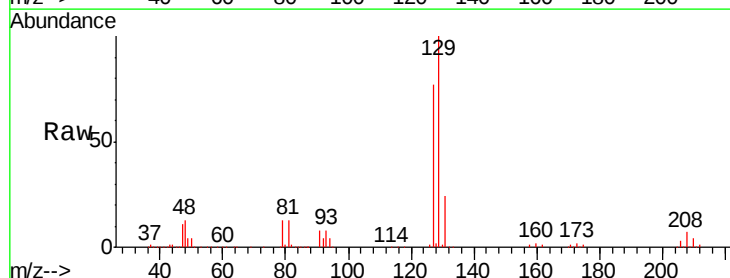
Manual Integrations
APPROVED

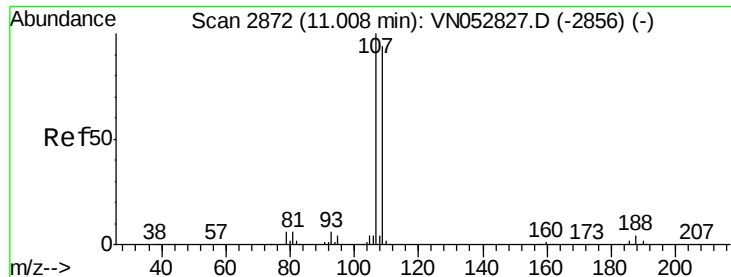
MMDadoda
12/18/2018 1:33:49 PM



#60
Dibromochloromethane
Concen: 51.099 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion: 129 Resp: 552397
Ion Ratio Lower Upper
129 100
127 77.1 38.6 116.0





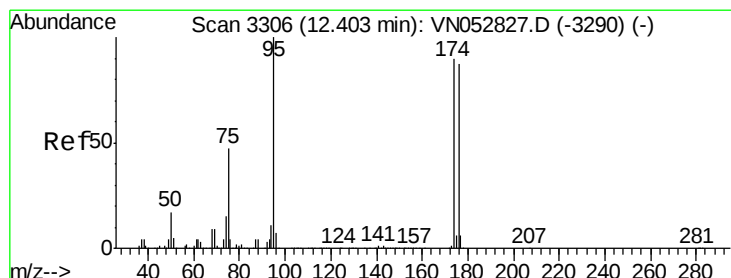
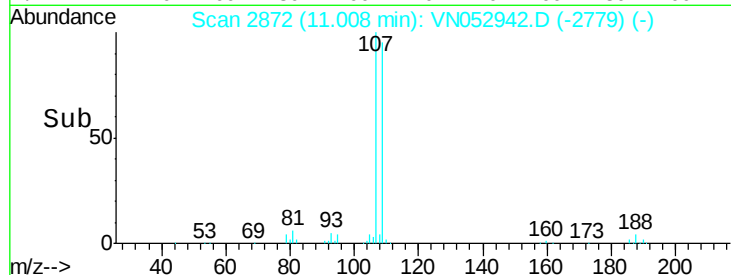
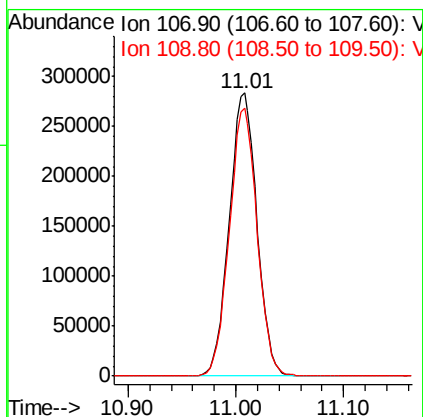
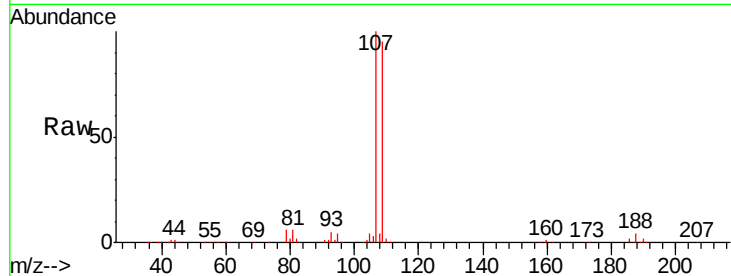
#61
 1,2-Dibromoethane
 Concen: 51.346 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 107 Resp: 507656
 Ion Ratio Lower Upper
 107 100
 109 94.7 75.4 113.0

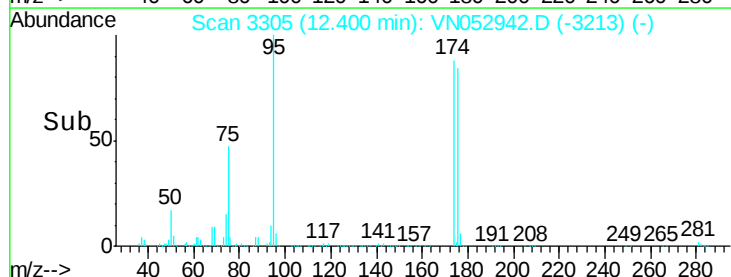
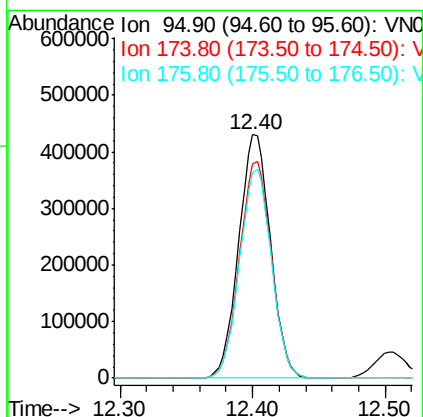
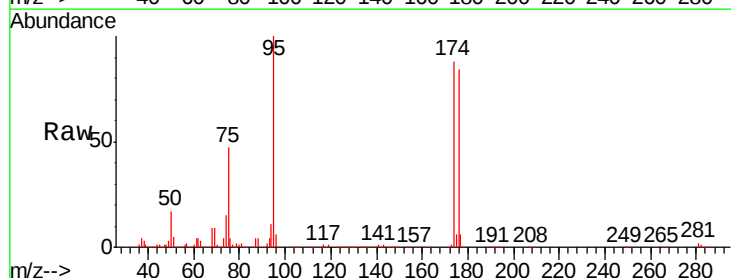
Manual Integrations
 APPROVED

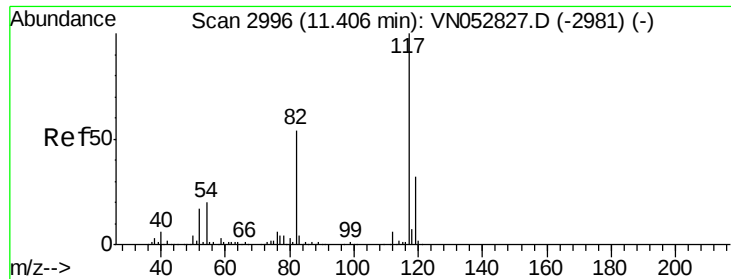
MMDadoda
 12/18/2018 1:33:49 PM



#62
 4-Bromofluorobenzene
 Concen: 51.346 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion: 95 Resp: 714509
 Ion Ratio Lower Upper
 95 100
 174 89.4 0.0 178.8
 176 86.1 0.0 173.8





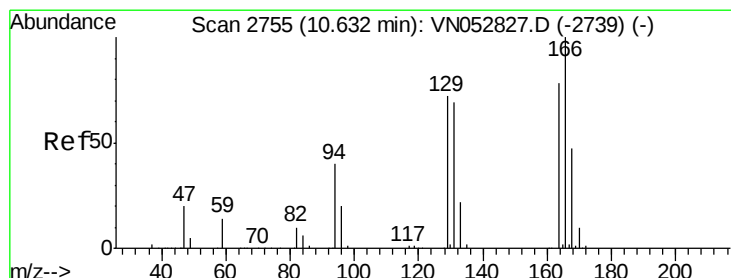
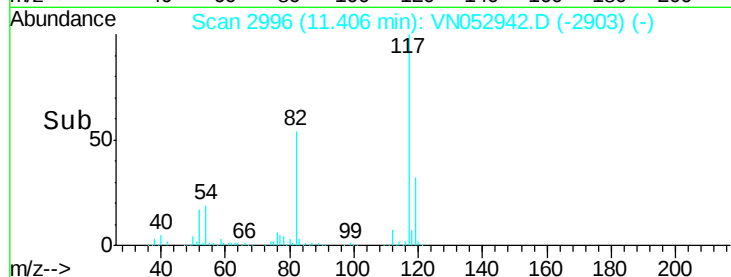
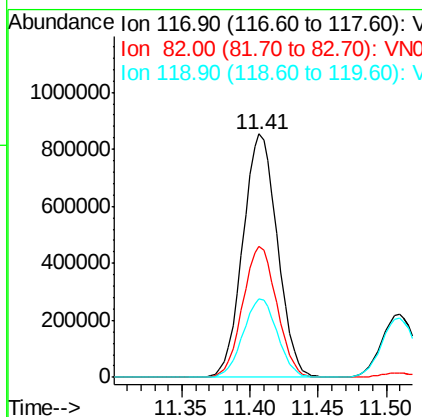
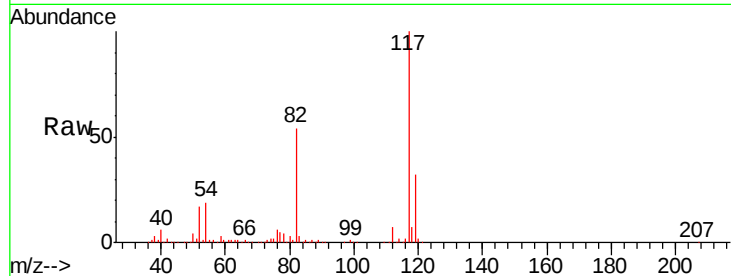
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 1498783
Ion Ratio Lower Upper
117 100
82 53.8 42.8 64.2
119 32.2 25.5 38.3

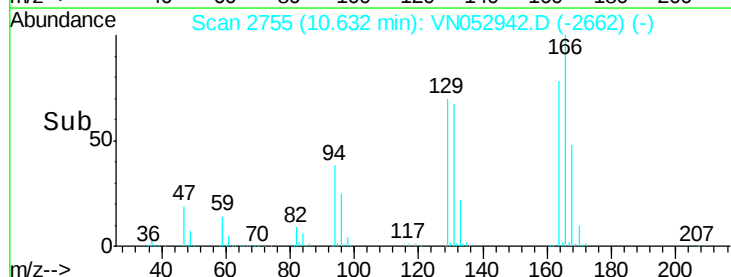
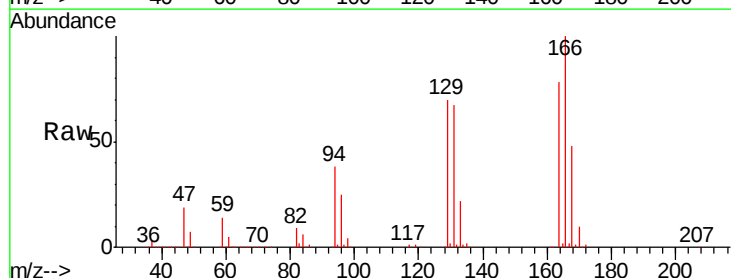
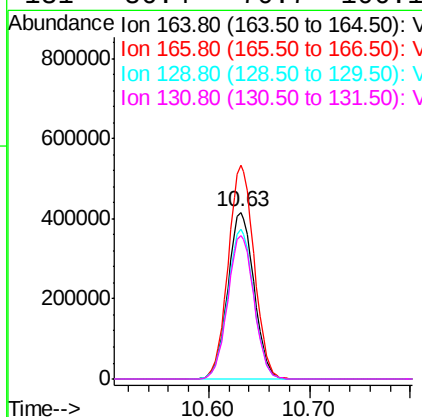
Manual Integrations
APPROVED

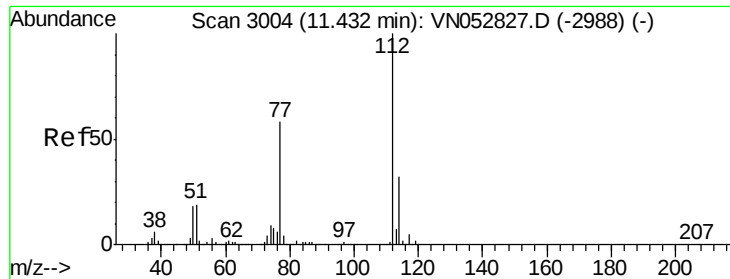
MMDadoda
12/18/2018 1:33:49 PM



#64
Tetrachloroethene
Concen: 58.373 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion:164 Resp: 751941
Ion Ratio Lower Upper
164 100
166 128.2 102.9 154.3
129 89.9 73.7 110.5
131 86.4 70.7 106.1





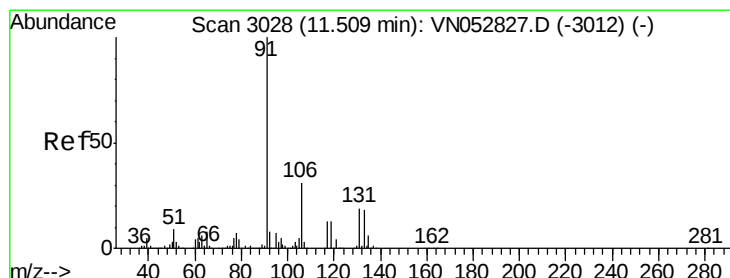
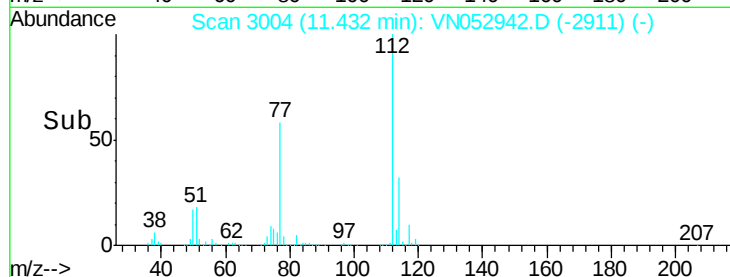
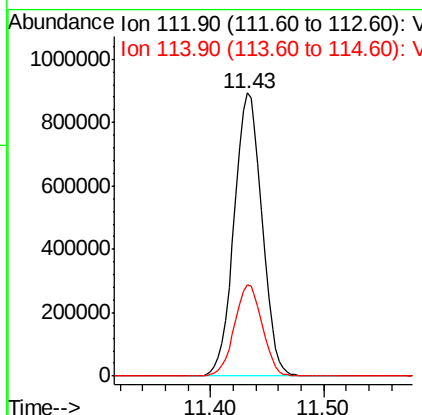
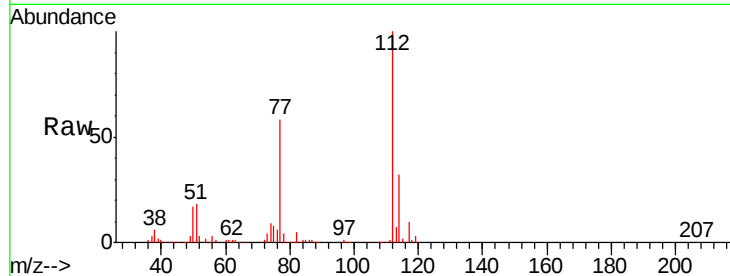
#65
Chlorobenzene
Concen: 49.206 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 1530021
Ion Ratio Lower Upper
112 100
114 32.2 25.5 38.3

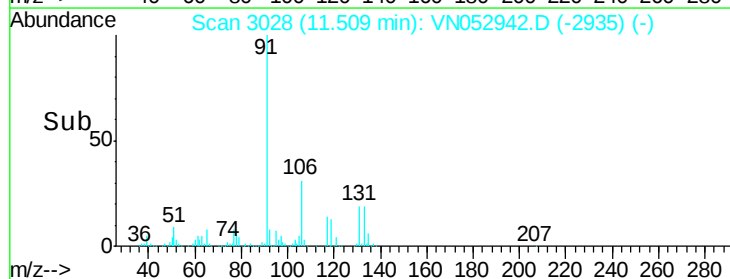
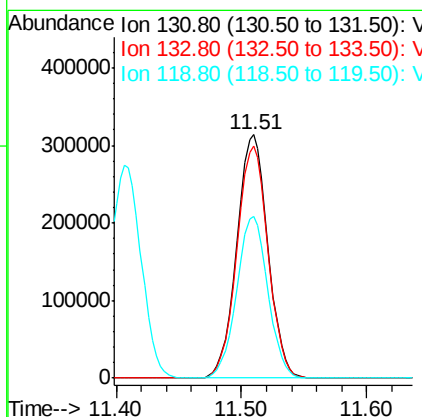
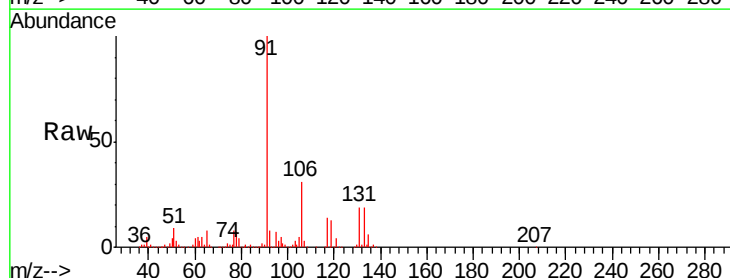
Manual Integrations
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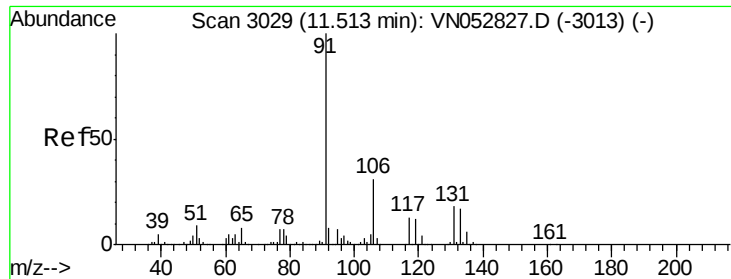
MMDadoda
12/18/2018 1:33:49 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.834 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion:131 Resp: 538917
Ion Ratio Lower Upper
131 100
133 95.9 47.6 142.9
119 66.7 33.3 99.8





#67

Ethyl Benzene

Concen: 49.840 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 2661366

Ion Ratio Lower Upper

91 100

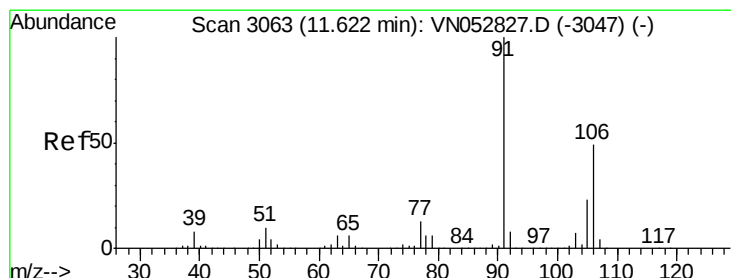
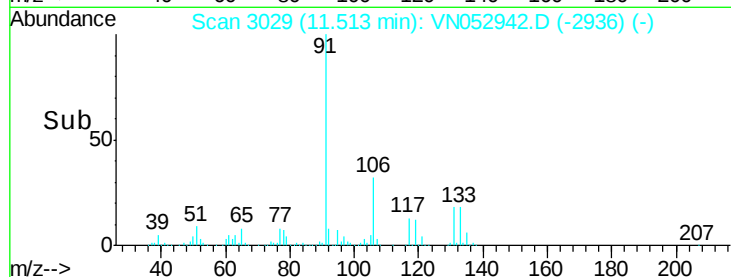
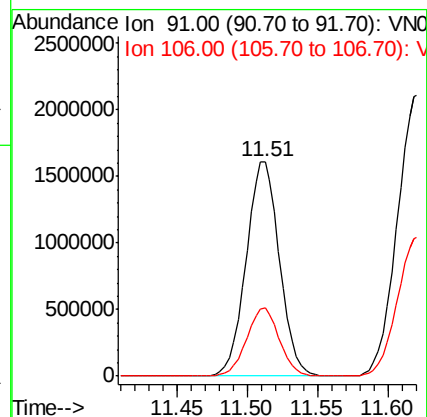
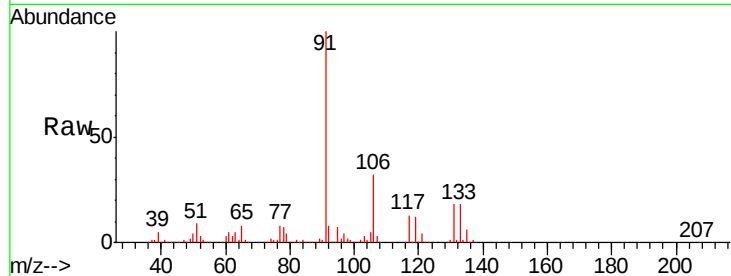
106 31.5 24.9 37.3

Manual Integrations

APPROVED

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12/18/2018 1:33:49 PM



#68

m/p-Xylenes

Concen: 101.002 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052942.D

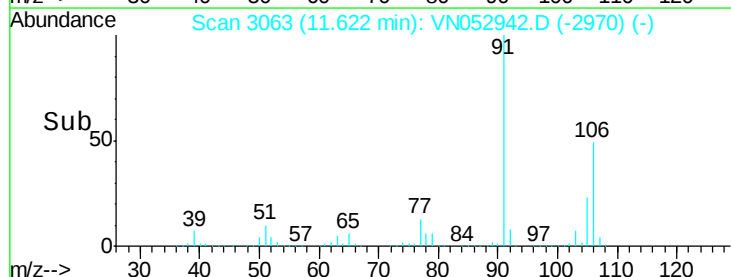
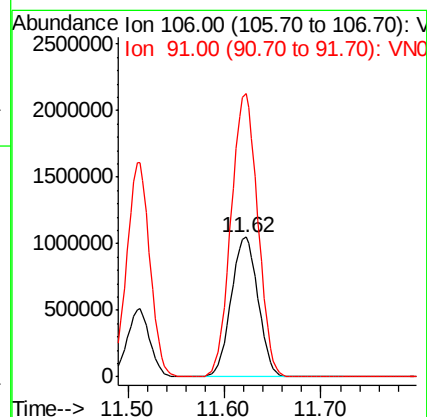
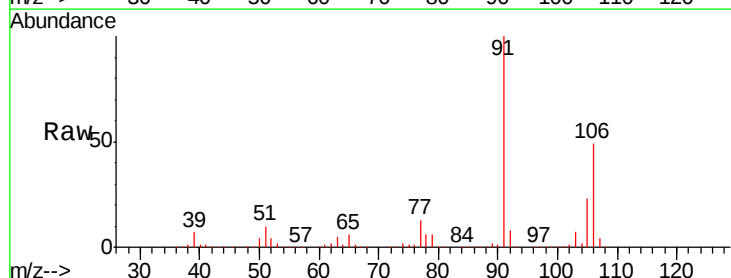
Acq: 17 Dec 2018 22:18

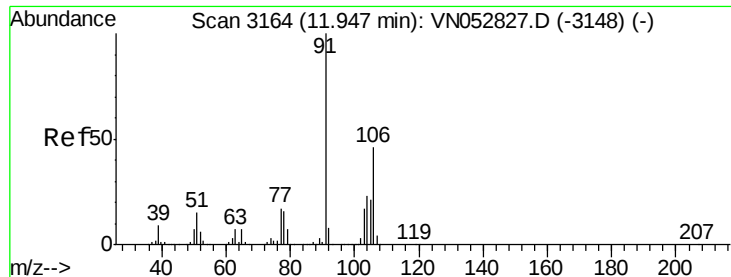
Tgt Ion: 106 Resp: 2025145

Ion Ratio Lower Upper

106 100

91 201.6 162.2 243.4





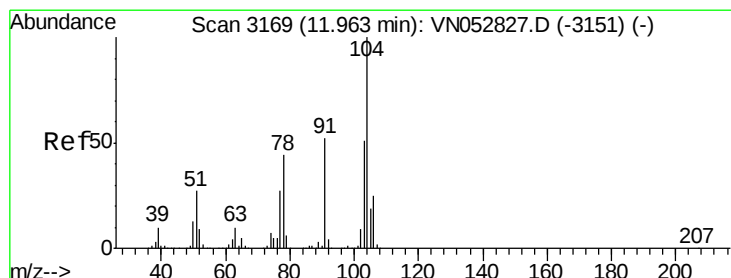
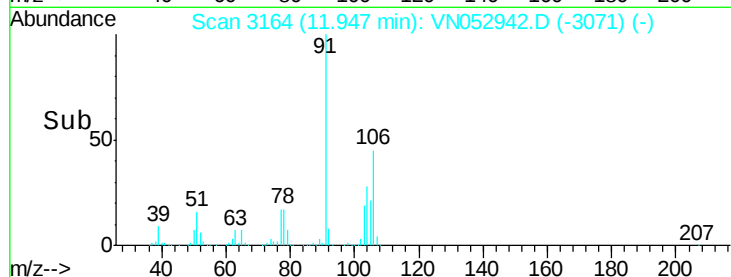
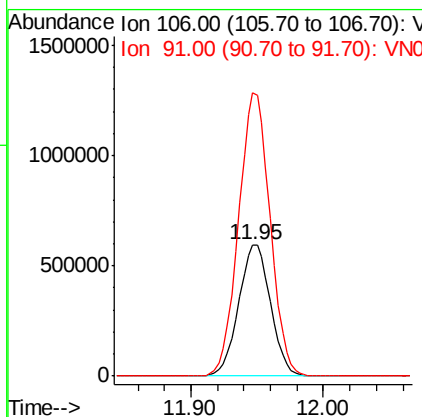
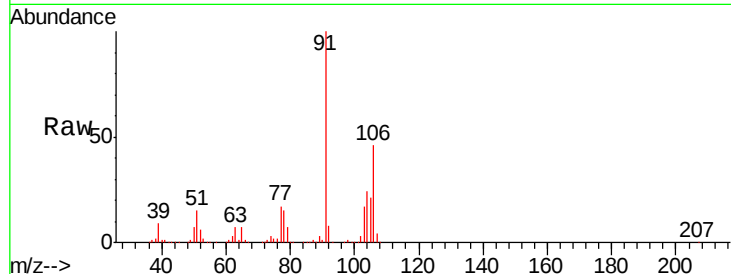
#69
o-Xylene
Concen: 50.551 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 989739
Ion Ratio Lower Upper
106 100
91 213.7 106.6 319.8

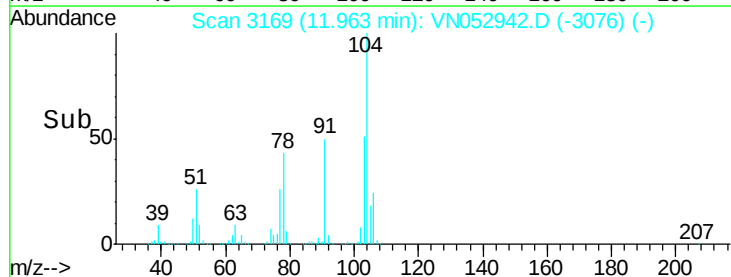
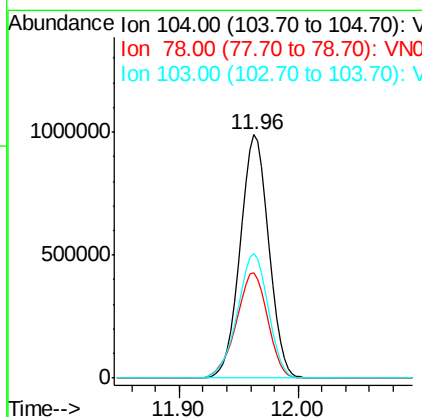
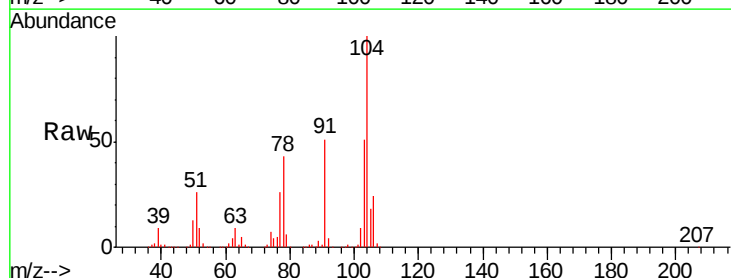
Manual Integrations
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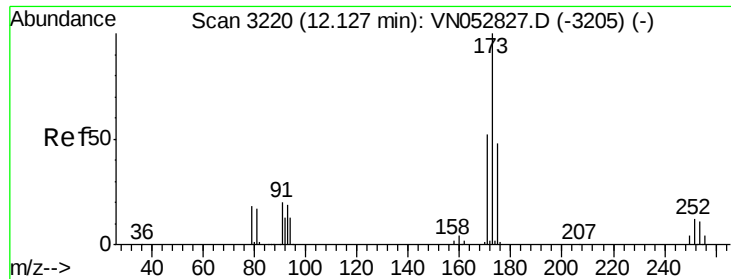
MMDadoda
12/18/2018 1:33:49 PM



#70
Styrene
Concen: 52.275 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion:104 Resp: 1645313
Ion Ratio Lower Upper
104 100
78 47.6 38.9 58.3
103 55.1 44.3 66.5





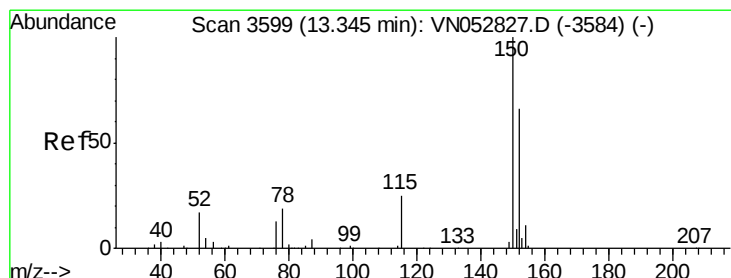
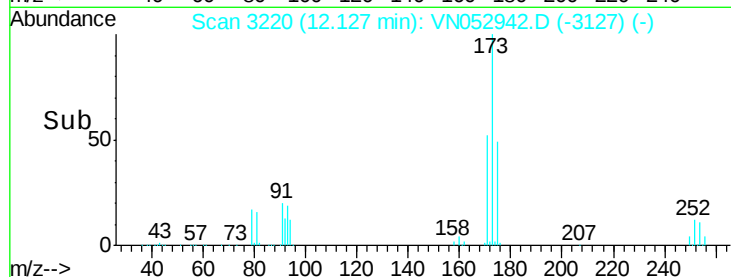
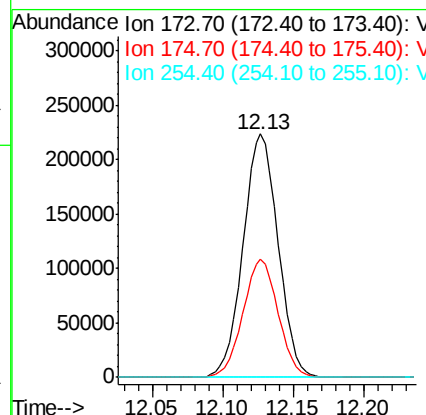
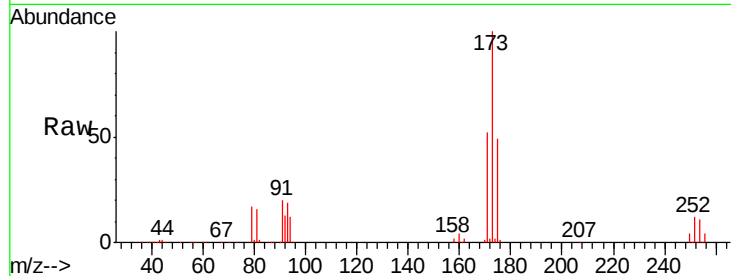
#71
Bromoform
Concen: 52.814 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
173	100			
175	48.5	24.3	72.9	
254	0.1	0.1	0.1#	

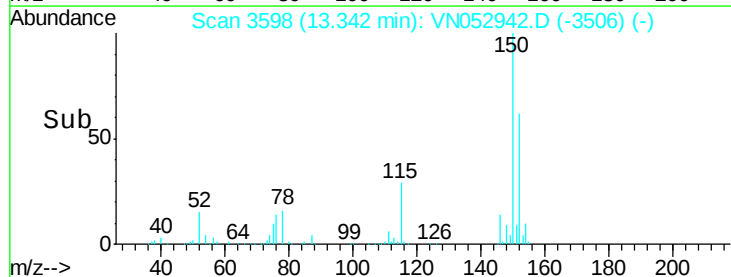
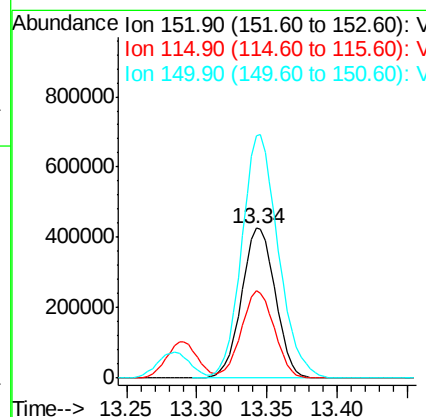
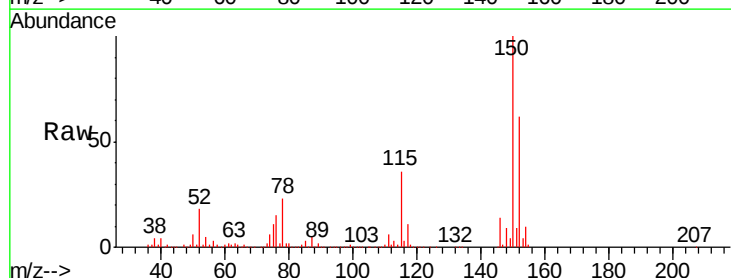
Manual Integrations
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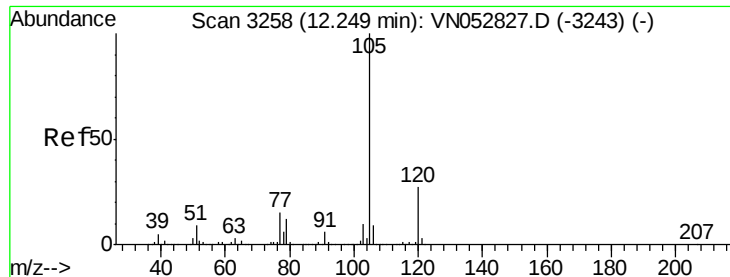
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
115	57.0	28.3	85.0	
150	175.4	0.0	347.8	





#73

Isopropylbenzene

Concen: 49.440 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 2632188

Ion Ratio Lower Upper

105 100

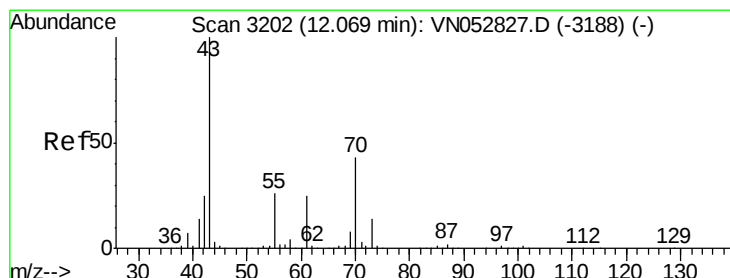
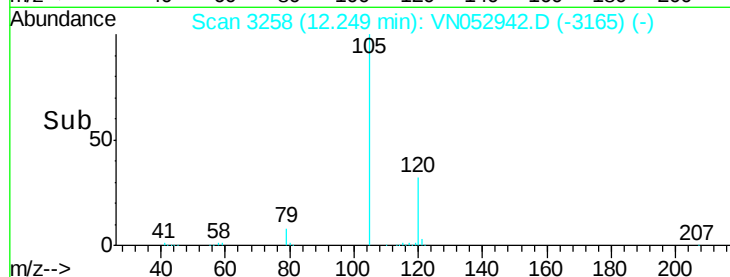
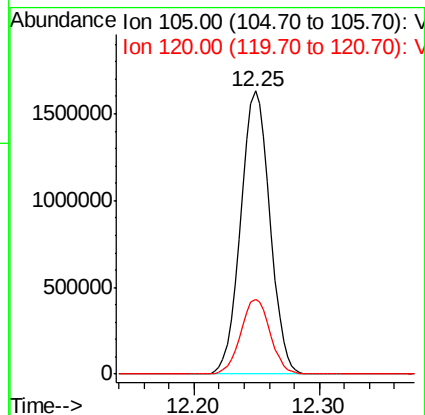
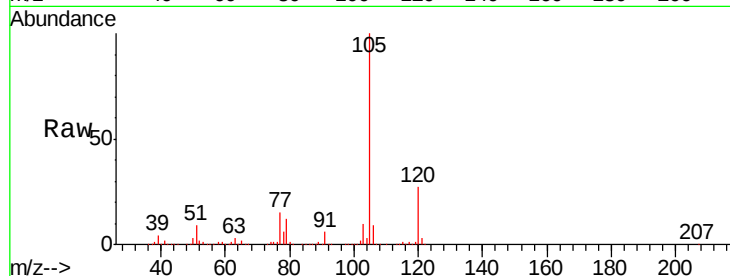
120 26.7 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 54.923 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Tgt Ion: 43 Resp: 802781

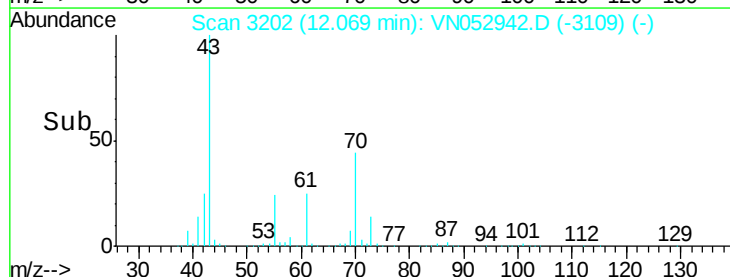
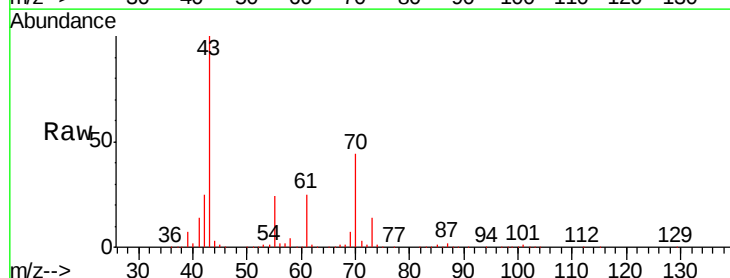
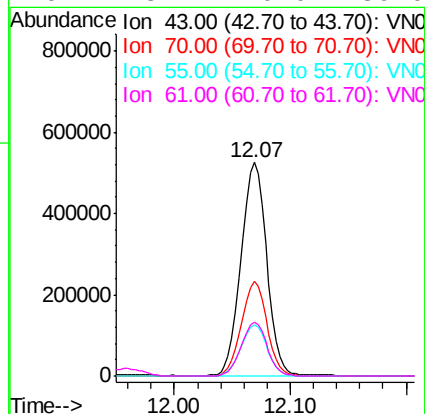
Ion Ratio Lower Upper

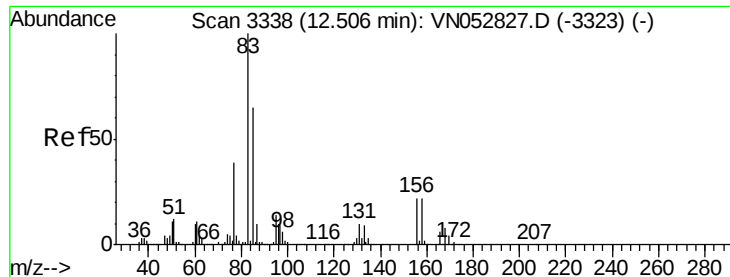
43 100

70 44.1 34.2 51.4

55 24.7 20.3 30.5

61 25.4 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 45.110 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 538248
Ion Ratio Lower Upper

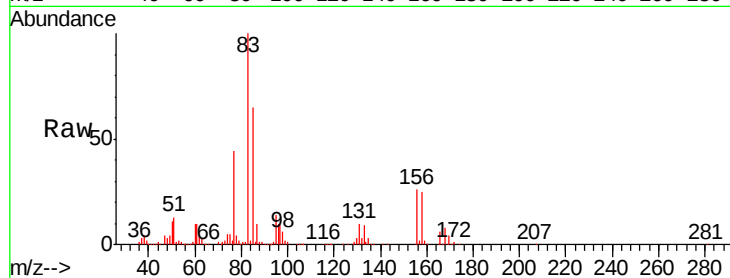
83 100

131 10.2 5.2 15.6

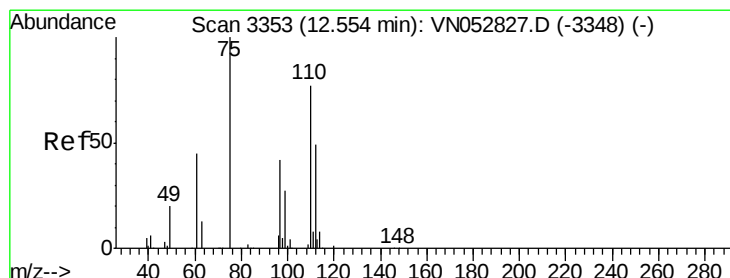
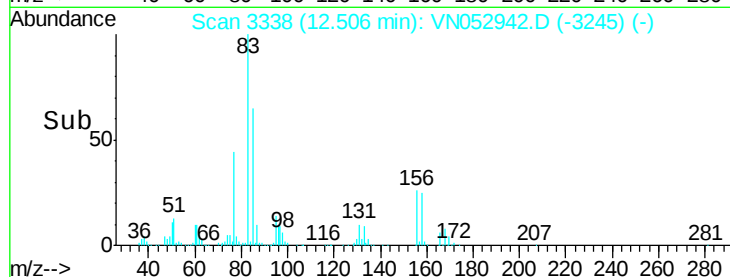
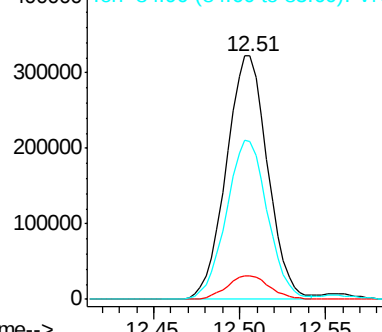
85 64.8 32.4 97.0

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Abundance Ion 82.90 (82.60 to 83.60): VN052942.D (-3245) (-)
Ion 130.80 (130.50 to 131.50): VN052942.D (-3245) (-)
Ion 84.90 (84.60 to 85.60): VN052942.D (-3245) (-)



#76

1,2,3-Trichloropropane

Concen: 48.976 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

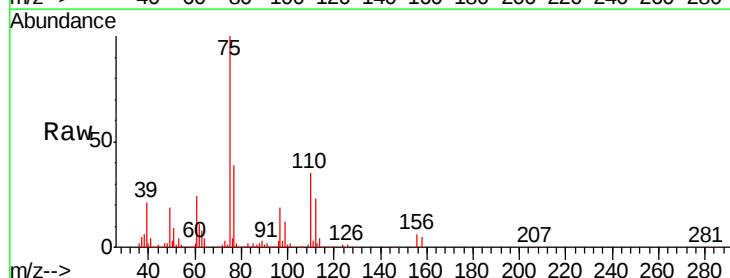
Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

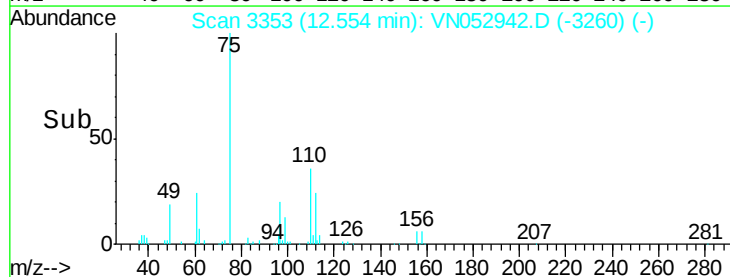
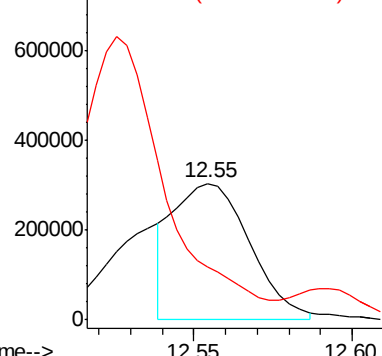
Tgt Ion: 75 Resp: 515254
Ion Ratio Lower Upper

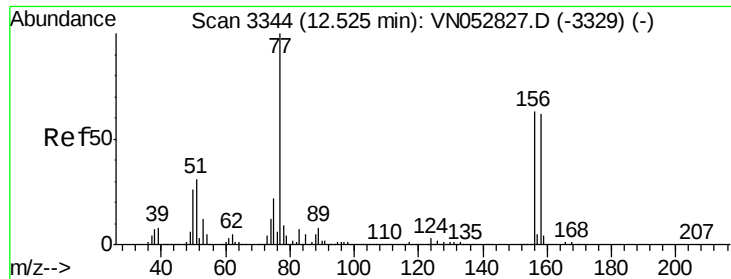
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN052942.D (-3260) (-)
Ion 77.00 (76.70 to 77.70): VN052942.D (-3260) (-)





#77

Bromobenzene

Concen: 49.907 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

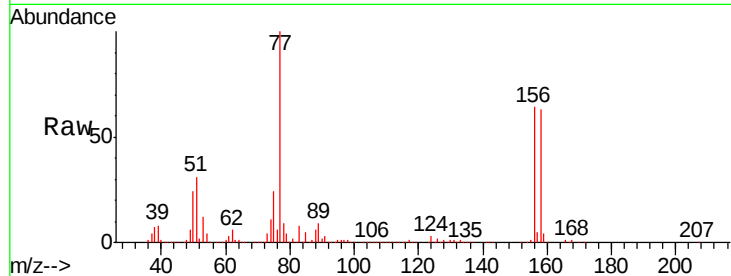
ClientSampleId :

VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
156	100		
77	181.0	91.3	273.8
158	98.2	49.0	147.2

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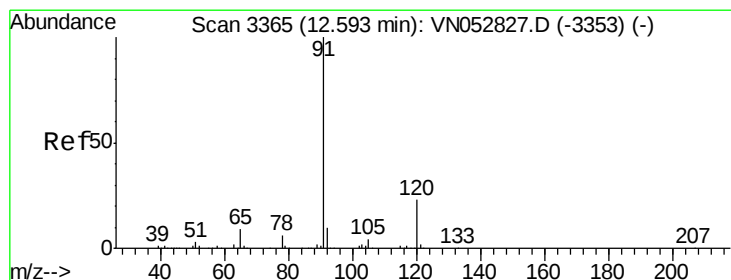
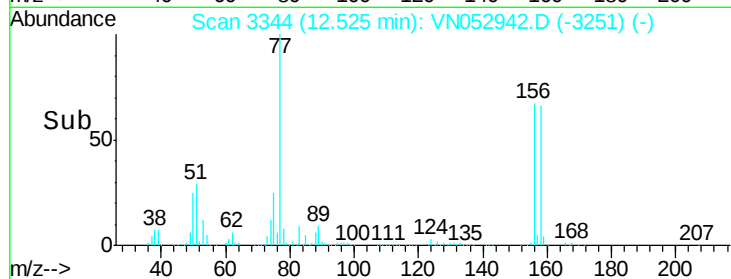
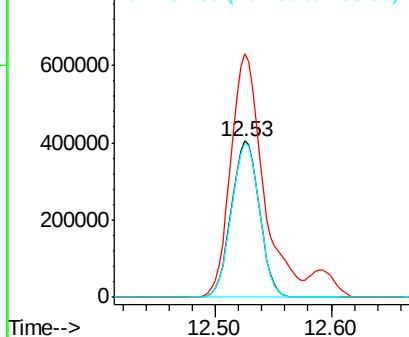
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 49.577 ug/l

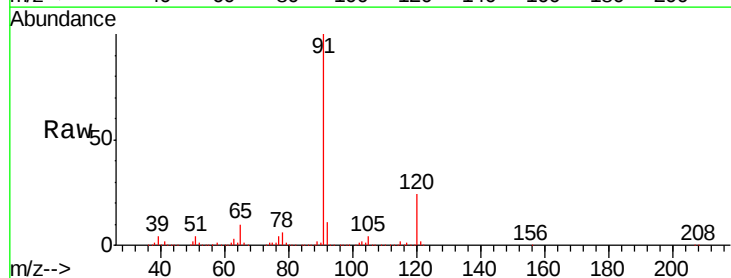
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN052942.D

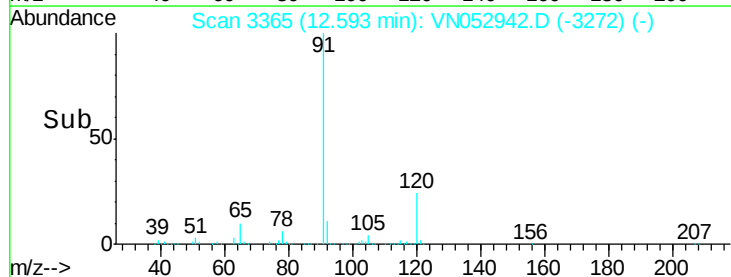
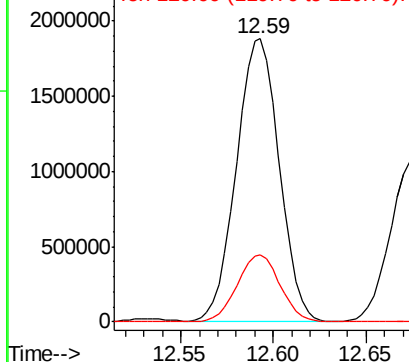
Acq: 17 Dec 2018 22:18

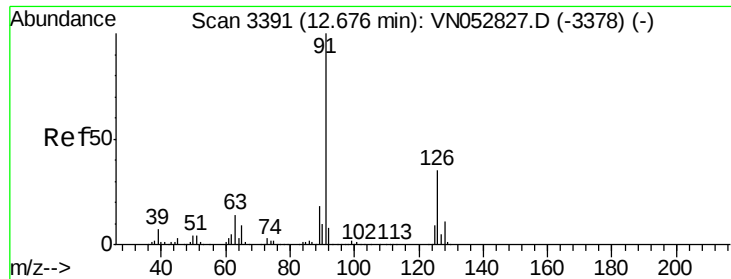
Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.5	34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.165 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 1764844

Ion Ratio Lower Upper

91 100

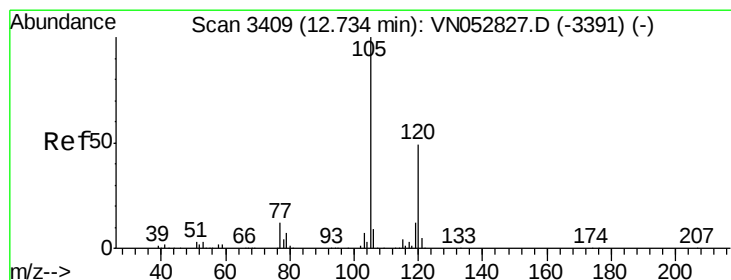
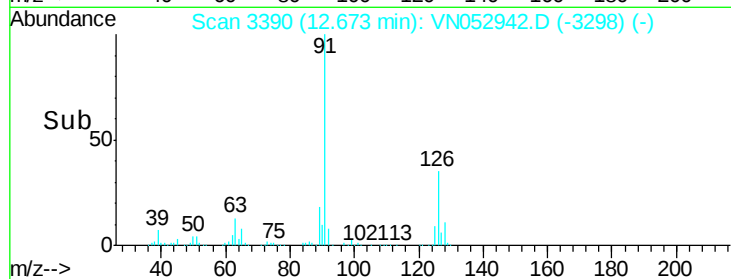
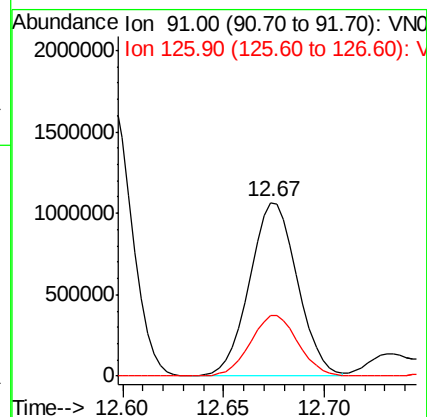
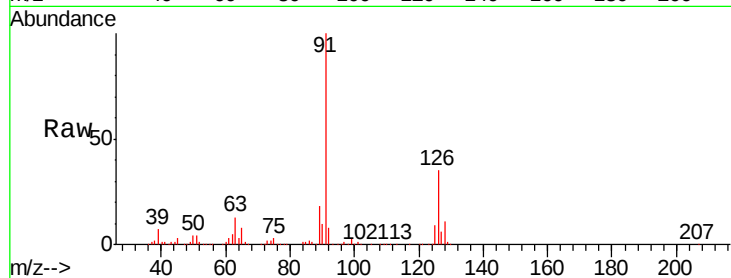
126 35.1 17.4 52.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 49.736 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052942.D

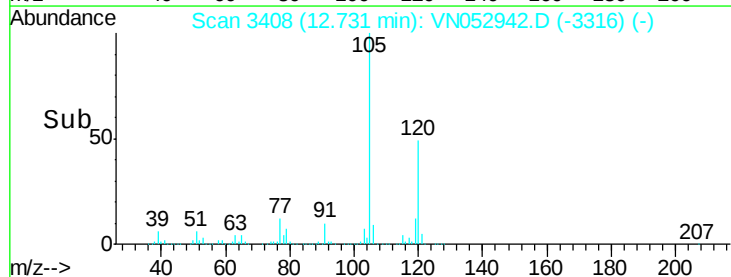
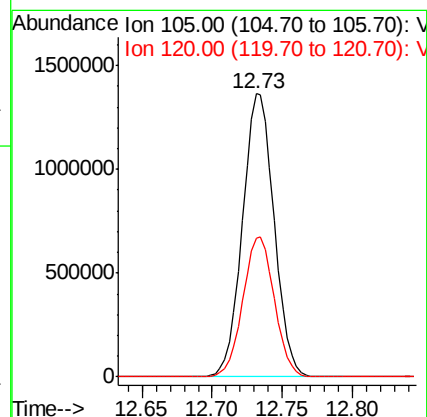
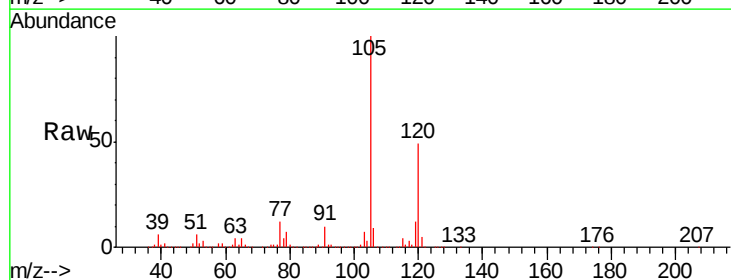
Acq: 17 Dec 2018 22:18

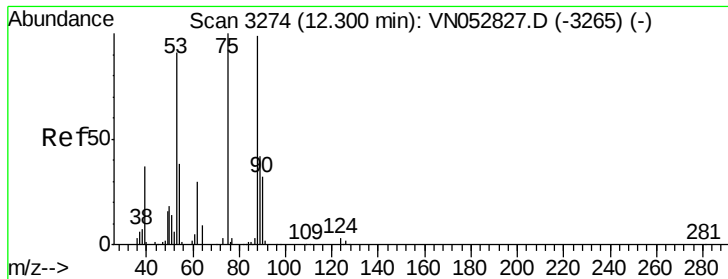
Tgt Ion: 105 Resp: 2137548

Ion Ratio Lower Upper

105 100

120 49.3 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 55.970 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

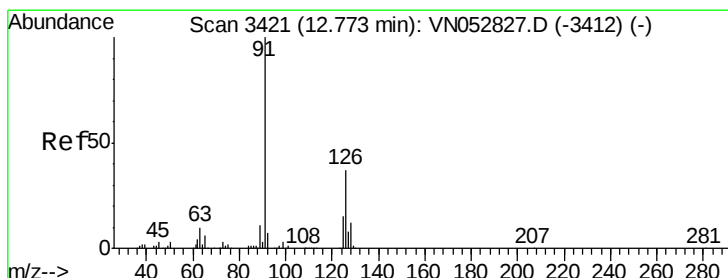
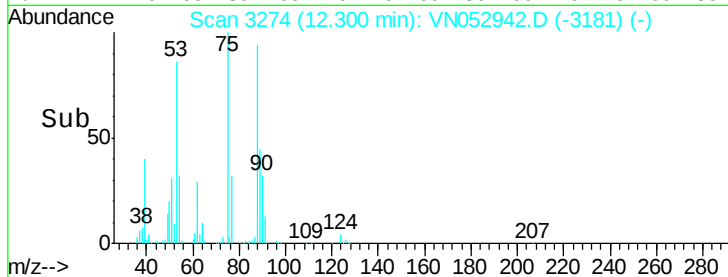
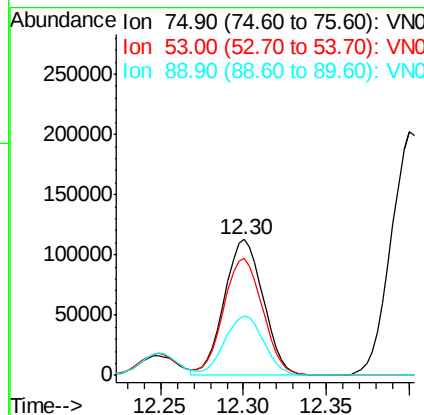
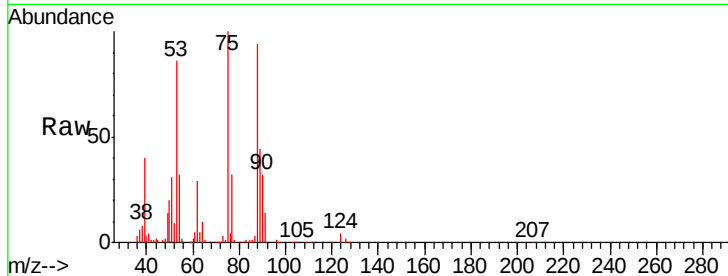
ClientSampleId :

VSTDCCC050

Tgt Ion:	75	Resp:	183294
Ion	Ratio	Lower	Upper
75	100		
53	87.9	74.7	112.1
89	44.5	36.1	54.1

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#82

4-Chlorotoluene

Concen: 49.294 ug/l

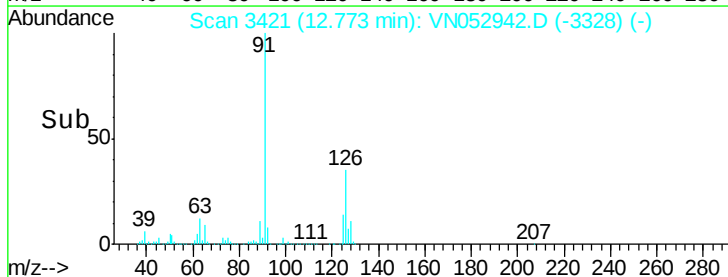
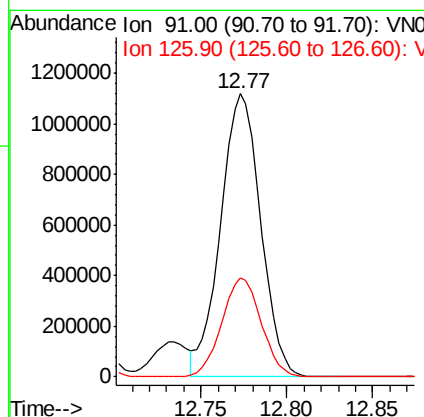
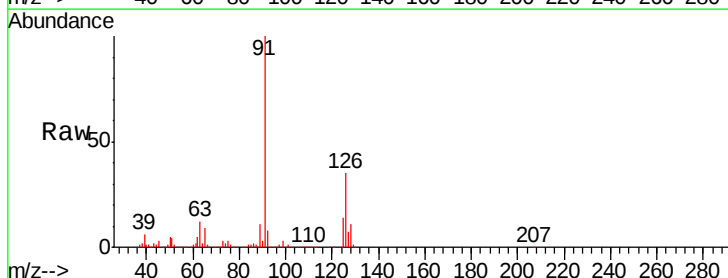
RT: 12.77 min Scan# 3421

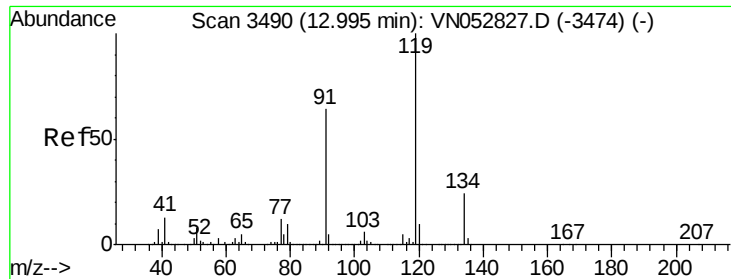
Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Tgt Ion:	91	Resp:	1809164
Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.3	51.7





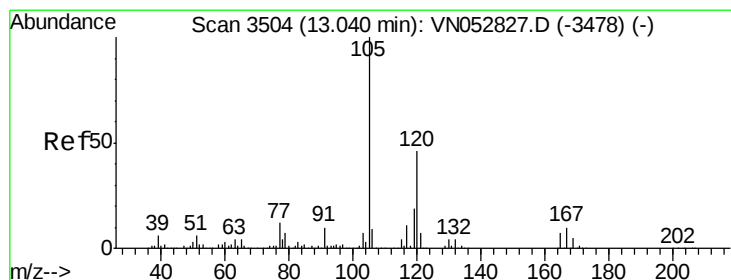
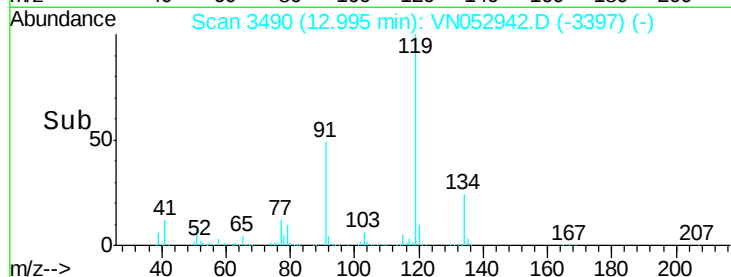
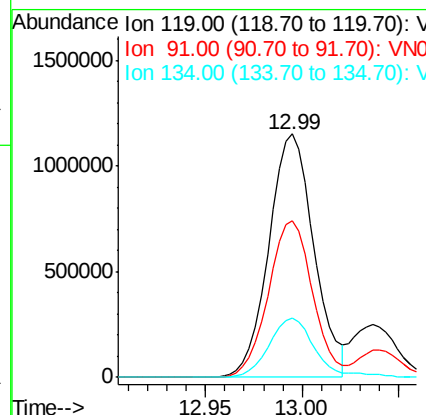
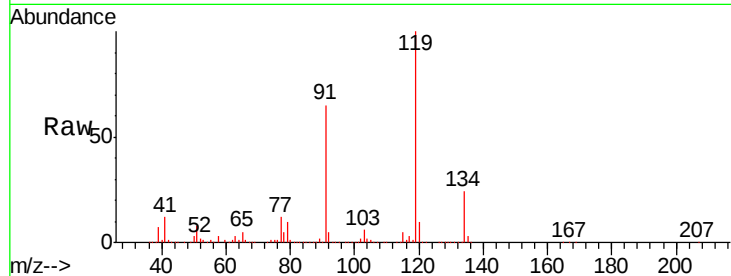
#83
 tert-Butylbenzene
 Concen: 49.477 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:119 Resp: 1875776
 Ion Ratio Lower Upper
 119 100
 91 63.7 31.9 95.5
 134 25.0 12.8 38.4

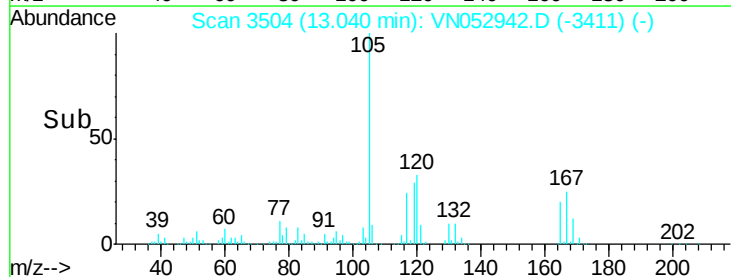
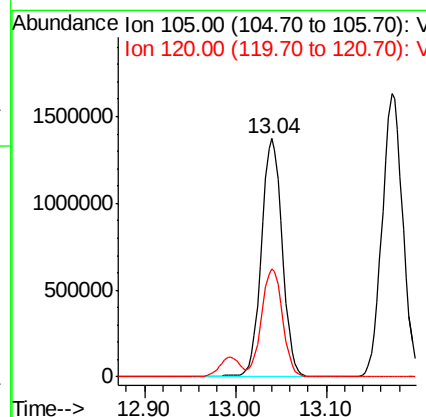
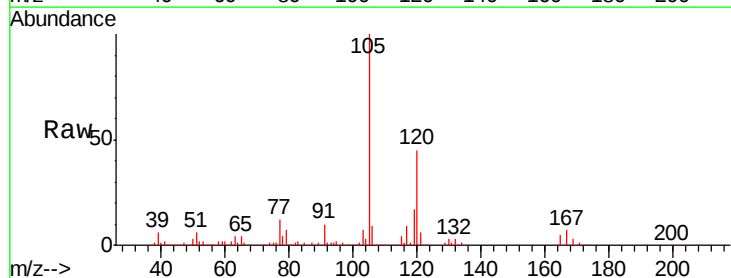
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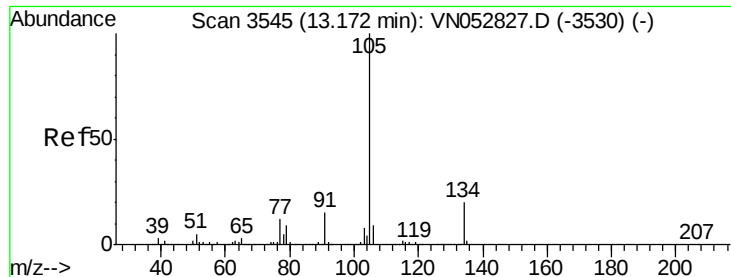
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.142 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion:105 Resp: 2181655
 Ion Ratio Lower Upper
 105 100
 120 45.7 22.9 68.8





#85

sec-Butylbenzene

Concen: 49.845 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 2559210

Ion Ratio Lower Upper

105 100

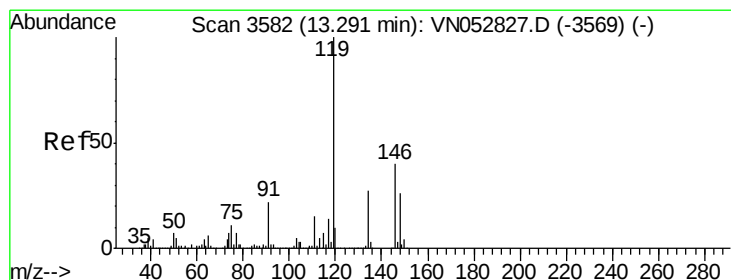
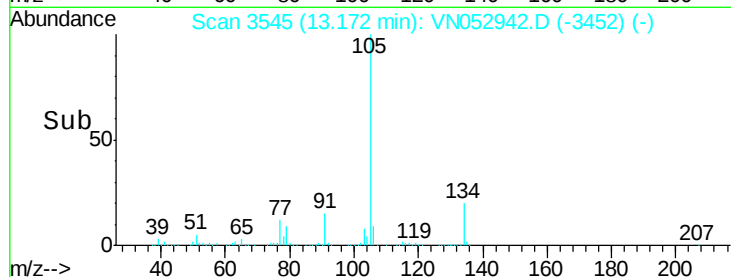
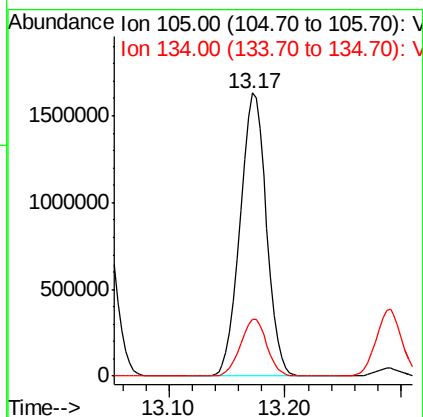
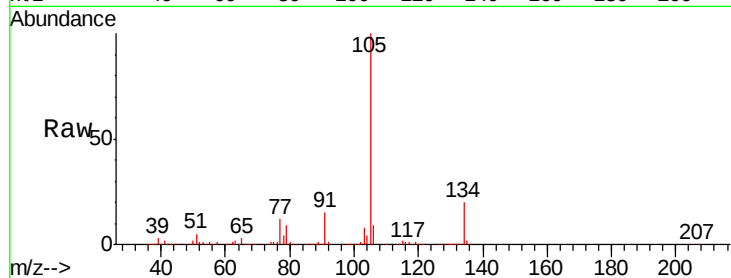
134 20.2 10.1 30.3

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#86

p-Isopropyltoluene

Concen: 49.856 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

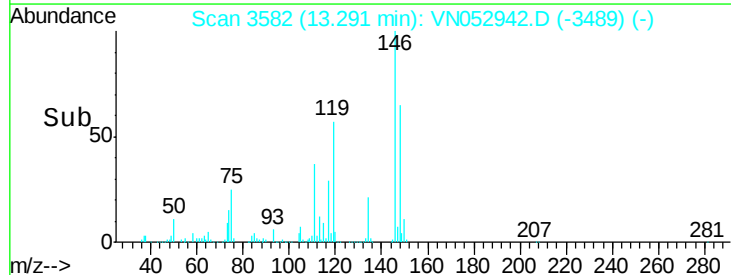
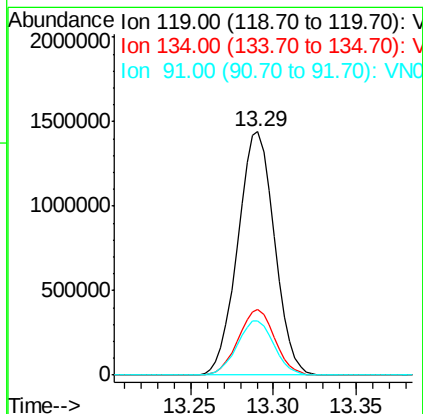
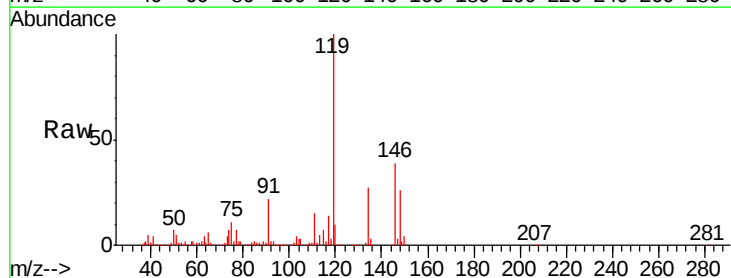
Tgt Ion:119 Resp: 2217733

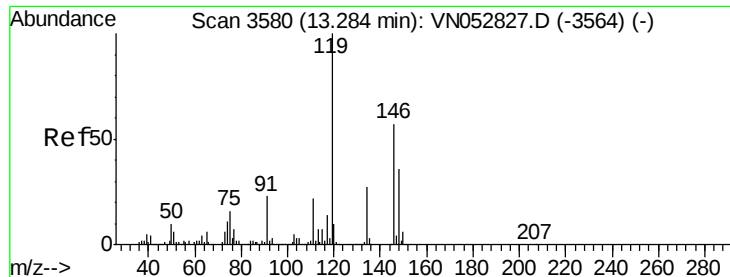
Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.2

91 22.3 11.1 33.3





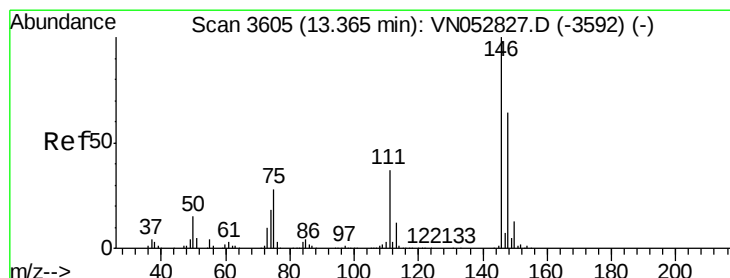
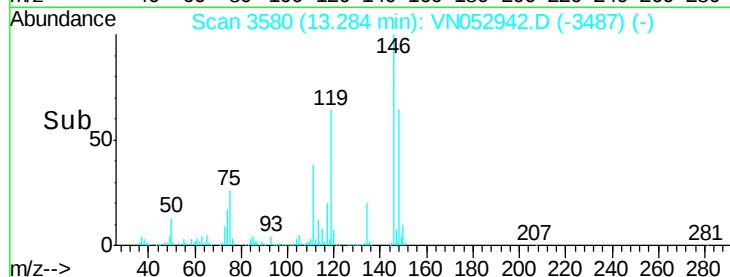
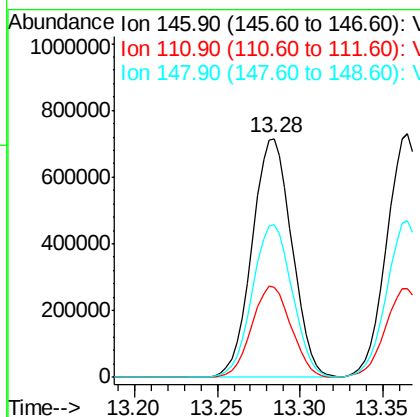
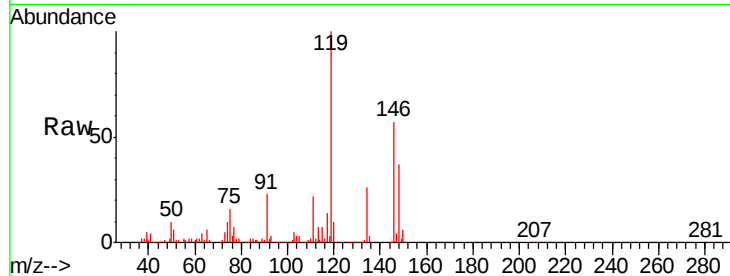
#87
 1,3-Dichlorobenzene
 Concen: 49.561 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:146 Resp: 1192639
 Ion Ratio Lower Upper
 146 100
 111 38.0 19.1 57.1
 148 64.2 32.0 96.0

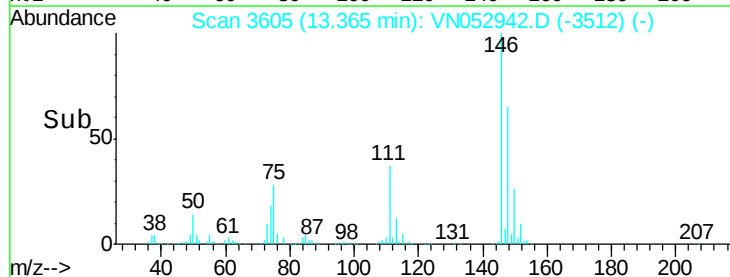
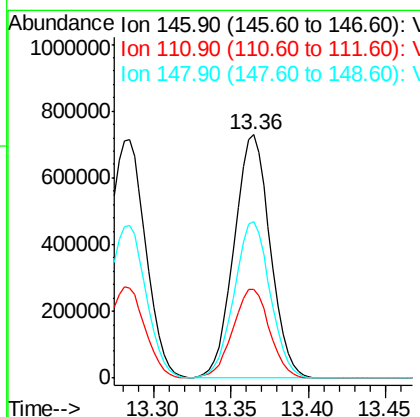
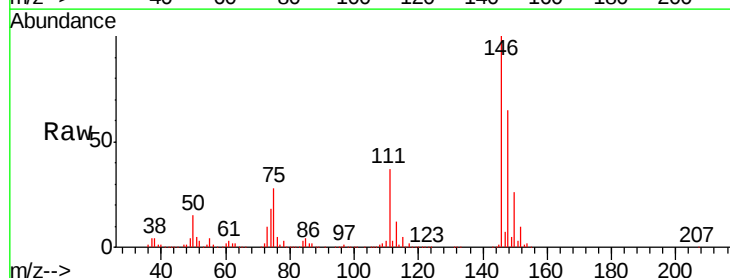
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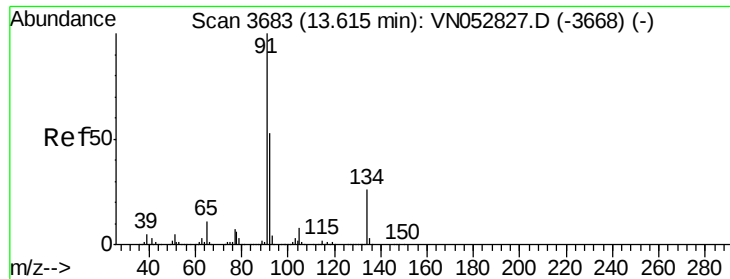
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#88
 1,4-Dichlorobenzene
 Concen: 49.458 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion:146 Resp: 1178625
 Ion Ratio Lower Upper
 146 100
 111 37.3 18.6 55.8
 148 64.4 32.1 96.5





#89

n-Butylbenzene

Concen: 50.232 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 1881056

Ion Ratio Lower Upper

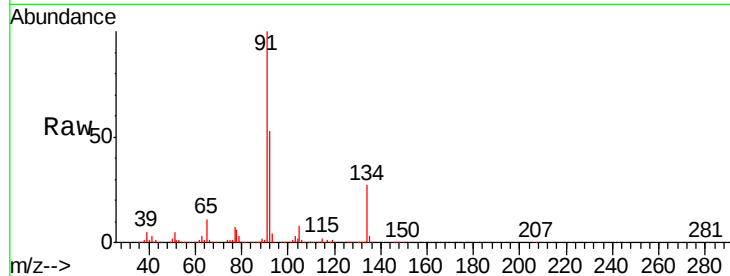
91 100

92 52.9 26.3 78.9

134 26.9 13.3 39.8

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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

13.62

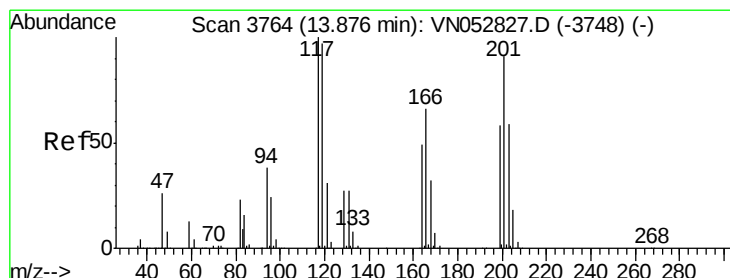
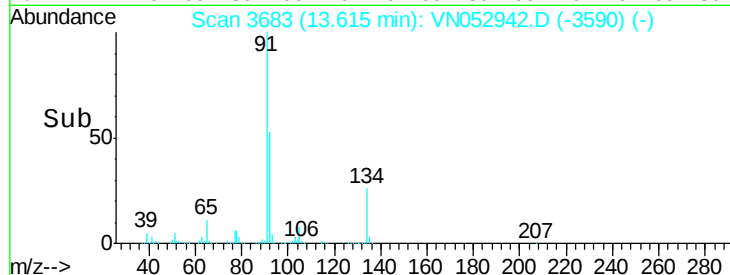
1500000

1000000

500000

0

Time--> 13.50 13.60 13.70



#90

Hexachloroethane

Concen: 44.288 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN052942.D

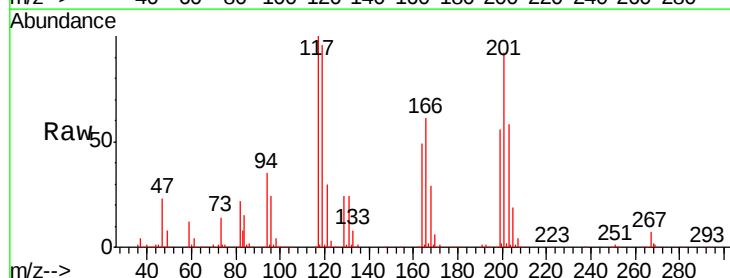
Acq: 17 Dec 2018 22:18

Tgt Ion: 117 Resp: 329885

Ion Ratio Lower Upper

117 100

201 91.9 45.7 137.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.88

200000

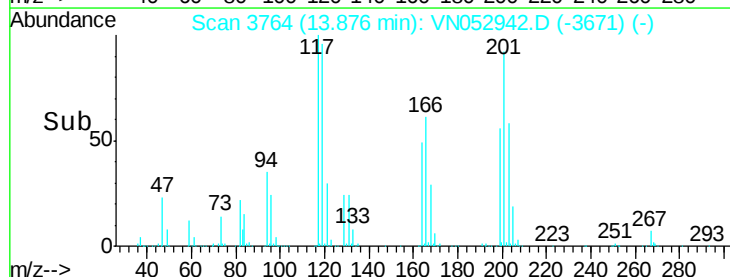
150000

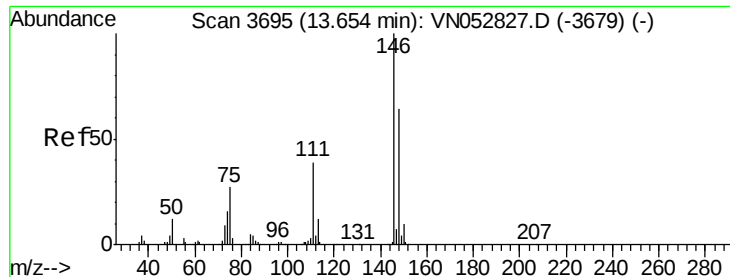
100000

50000

0

Time--> 13.80 13.85 13.90 13.95





#91

1,2-Dichlorobenzene

Concen: 49.636 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 146 Resp: 1148978

Ion Ratio Lower Upper

146 100

111 39.2 19.7 59.0

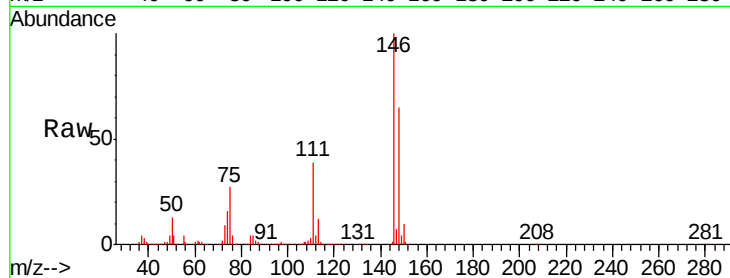
148 64.1 32.0 96.0

Manual Integrations

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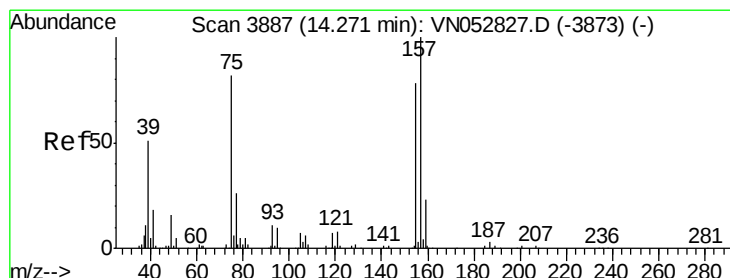
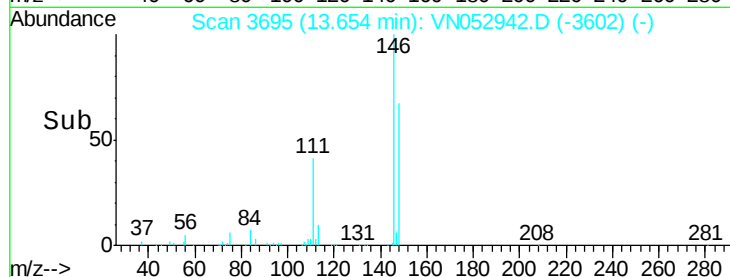
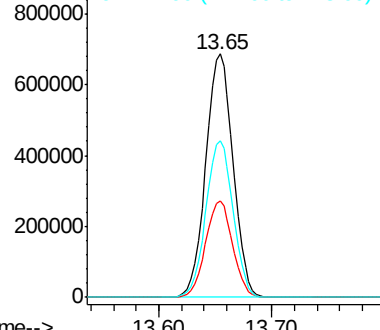
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Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 51.877 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN052942.D

Acq: 17 Dec 2018 22:18

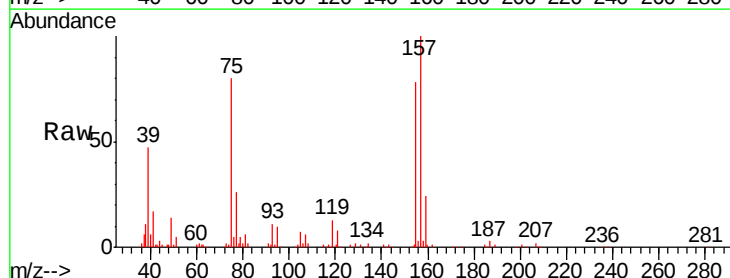
Tgt Ion: 75 Resp: 93306

Ion Ratio Lower Upper

75 100

155 97.3 48.2 144.6

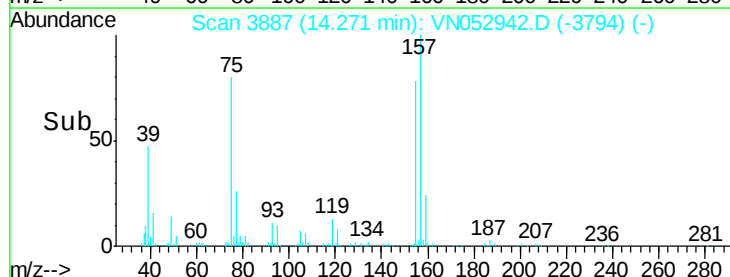
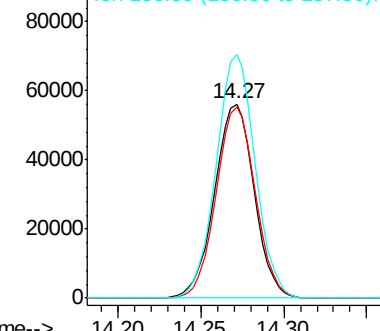
157 124.1 61.2 183.5

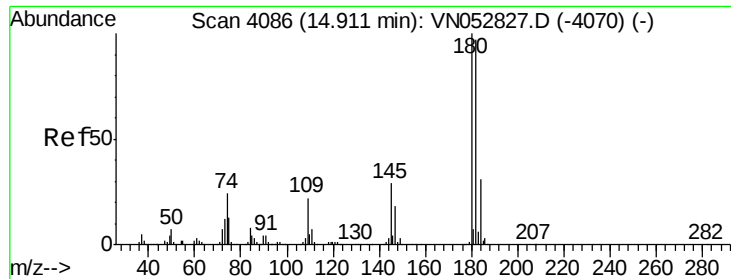


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





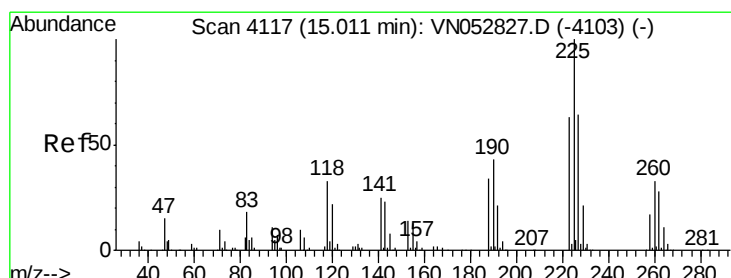
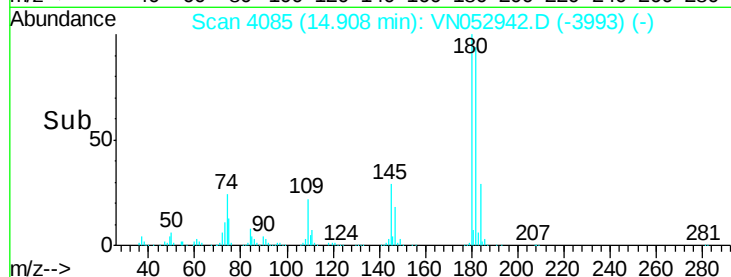
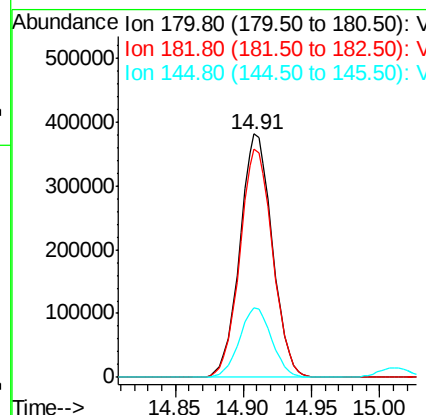
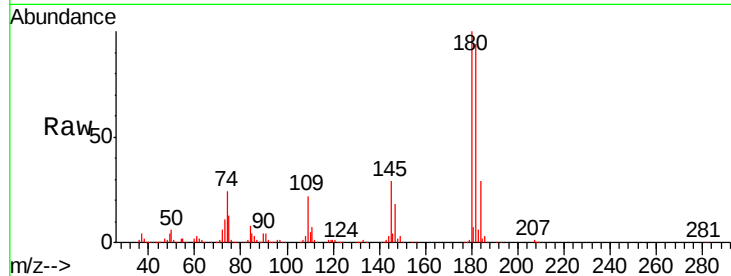
#93
 1,2,4-Trichlorobenzene
 Concen: 49.760 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	626128		
182	94.9	47.8	143.3	
145	28.6	14.2	42.6	

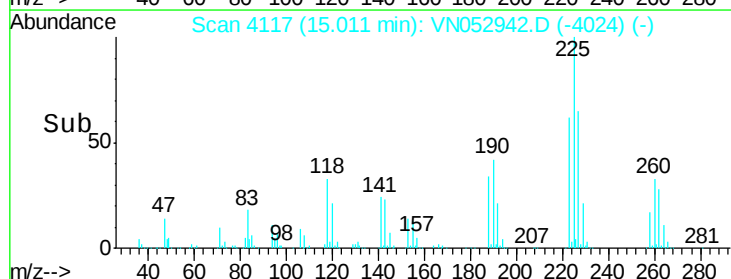
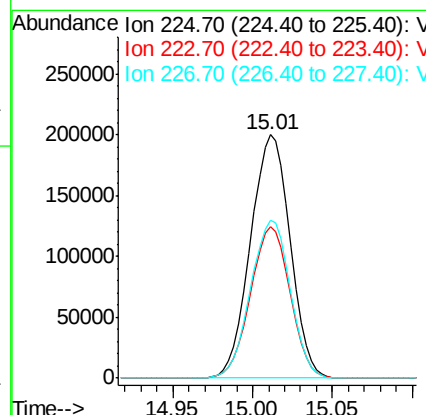
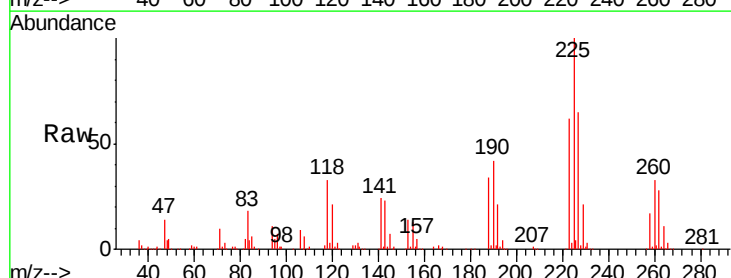
Manual Integrations
 APPROVED

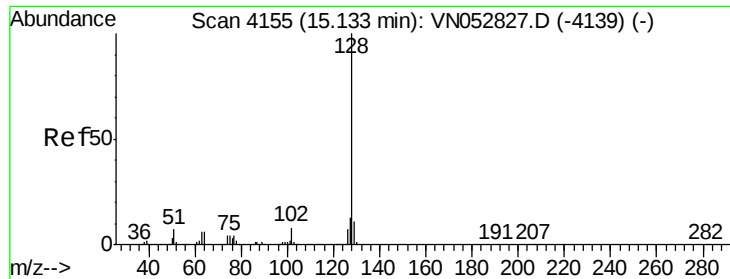
MMDadoda
 12/18/2018 1:33:49 PM



#94
 Hexachlorobutadiene
 Concen: 46.511 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052942.D
 Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	338752		
223	62.2	31.5	94.5	
227	64.8	31.9	95.7	





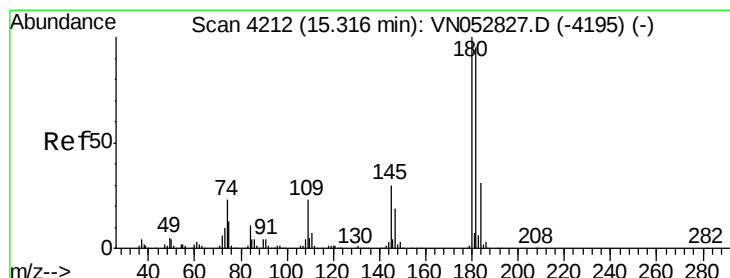
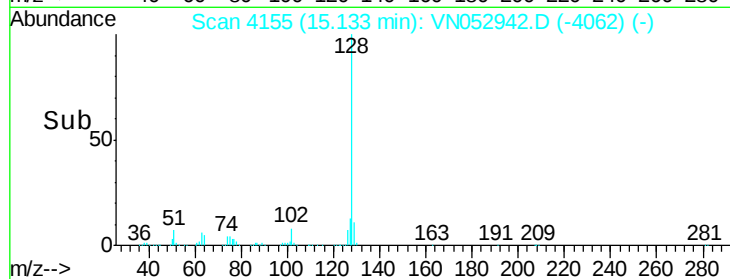
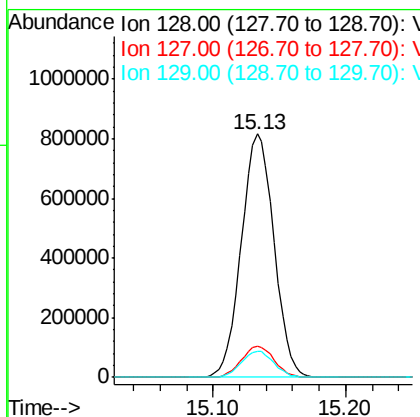
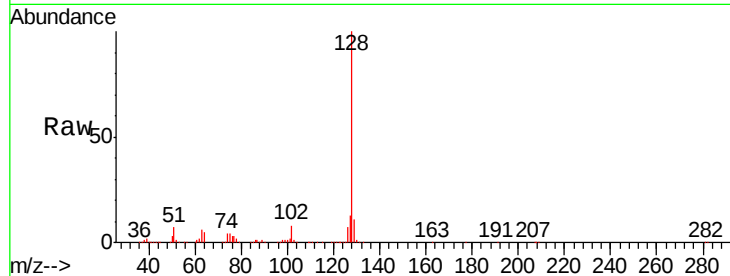
#95
Naphthalene
Concen: 53.476 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/18/2018 1:33:49 PM



#96
1,2,3-Trichlorobenzene
Concen: 48.448 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052942.D
Acq: 17 Dec 2018 22:18

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.7
145	30.3	15.0	45.0

