

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112018\
 Data File : VN052399.D
 Acq On : 20 Nov 2018 11:17
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 11/21/2018 5:12:26 PM

Quant Time: Nov 20 13:21:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	262744	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	436081	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	395025	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	186473	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	200128	53.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.86%	
35) Dibromofluoromethane	7.59	113	147942	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	
50) Toluene-d8	10.09	98	560224	50.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.26%	
62) 4-Bromofluorobenzene	12.40	95	197741	54.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.64%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	139949	50.27	ug/l	100
3) Chloromethane	2.06	50	174644	45.14	ug/l	100
4) Vinyl Chloride	2.19	62	161233	48.21	ug/l	98
5) Bromomethane	2.57	94	80430	38.57	ug/l	94
6) Chloroethane	2.71	64	95178	50.33	ug/l	99
7) Trichlorofluoromethane	3.02	101	242515	52.40	ug/l	100
8) Diethyl Ether	3.41	74	84655	47.99	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.76	101	145200	49.68	ug/l	98
10) Methyl Iodide	3.96	142	157014	40.01	ug/l	97
11) Tert butyl alcohol	4.78	59	46185	235.67	ug/l	100
12) 1,1-Dichloroethene	3.74	96	128951	47.68	ug/l	98
13) Acrolein	3.61	56	86798	289.84	ug/l	99
14) Allyl chloride	4.33	41	280913	50.58	ug/l	97
15) Acrylonitrile	4.99	53	282430	252.38	ug/l	99
16) Acetone	3.82	43	294726	288.45	ug/l	91
17) Carbon Disulfide	4.06	76	388320	50.07	ug/l	97
18) Methyl Acetate	4.33	43	145281	50.74	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	394867	50.80	ug/l	100
20) Methylene Chloride	4.55	84	151101	48.59	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	137983	47.38	ug/l	98
22) Diisopropyl ether	5.95	45	585440	51.66	ug/l	99
23) Vinyl Acetate	5.90	43	1893934	246.38	ug/l	100
24) 1,1-Dichloroethane	5.85	63	302617	49.80	ug/l	99
25) 2-Butanone	6.84	43	393882	273.88	ug/l	94
26) 2,2-Dichloropropane	6.83	77	210443	47.10	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	161442	47.62	ug/l	94
28) Bromochloromethane	7.20	49	151443	48.47	ug/l	99
29) Tetrahydrofuran	7.21	42	251370	266.06	ug/l	98
30) Chloroform	7.37	83	296820	51.26	ug/l	97
31) Cyclohexane	7.65	56	283764	50.31	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	245336	49.73	ug/l	97
36) 1,1-Dichloropropene	7.80	75	229173	52.43	ug/l	99
37) Ethyl Acetate	6.93	43	158880	50.09	ug/l	98
38) Carbon Tetrachloride	7.77	117	217466	54.16	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	259699	52.05	ug/l	98
40) Benzene	8.04	78	627860	50.28	ug/l	98
41) Methacrylonitrile	7.17	41	87243	49.56	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	241708	54.28	ug/l	99
43) Isopropyl Acetate	8.17	43	293769	47.99	ug/l	99
44) Trichloroethene	8.84	130	156266	50.81	ug/l	98
45) 1,2-Dichloropropane	9.12	63	180366	50.90	ug/l	99
46) Dibromomethane	9.21	93	107134	52.22	ug/l	96
47) Bromodichloromethane	9.40	83	231773	55.06	ug/l	99
48) Methyl methacrylate	9.20	41	147936	47.63	ug/l	97
49) 1,4-Dioxane	9.20	88	25884	1085.61	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	847159	274.95	ug/l	99
52) Toluene	10.16	92	384760	51.51	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	218964	51.57	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	253568	52.39	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	137081	50.62	ug/l	98
56) Ethyl methacrylate	10.43	69	173712	48.78	ug/l	95
57) 1,3-Dichloropropane	10.71	76	250698	52.27	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	544935	268.78	ug/l	98
59) 2-Hexanone	10.75	43	596710	281.56	ug/l	99
60) Dibromochloromethane	10.90	129	158152	53.98	ug/l	99
61) 1,2-Dibromoethane	11.00	107	136125	50.47	ug/l	100
64) Tetrachloroethene	10.63	164	138773	49.41	ug/l	98
65) Chlorobenzene	11.43	112	420733	50.39	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	147802	51.91	ug/l	99
67) Ethyl Benzene	11.51	91	764296	52.74	ug/l	100
68) m/p-Xylenes	11.62	106	563610	106.44	ug/l	98
69) o-Xylene	11.95	106	272107	53.61	ug/l	98
70) Styrene	11.96	104	446472	54.93	ug/l	99
71) Bromoform	12.13	173	96421	57.35	ug/l #	97
73) Isopropylbenzene	12.25	105	751340	50.11	ug/l	99
74) N-amyl acetate	12.07	43	246967	46.25	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	176262	48.63	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	174688m	55.21	ug/l	
77) Bromobenzene	12.53	156	167439	48.00	ug/l	97
78) n-propylbenzene	12.59	91	896614	51.14	ug/l	99
79) 2-Chlorotoluene	12.67	91	510280	49.82	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	614694	51.56	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	47104	48.28	ug/l	94
82) 4-Chlorotoluene	12.77	91	530010	50.50	ug/l	99
83) tert-Butylbenzene	12.99	119	537484	51.06	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	623580	52.10	ug/l	99
85) sec-Butylbenzene	13.17	105	747144	52.11	ug/l	100
86) p-Isopropyltoluene	13.29	119	640476	52.73	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	309689	49.99	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	307525	49.93	ug/l	99
89) n-Butylbenzene	13.62	91	582473	55.84	ug/l	99
90) Hexachloroethane	13.88	117	111820	51.98	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	298637	49.75	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28486	53.30	ug/l	92

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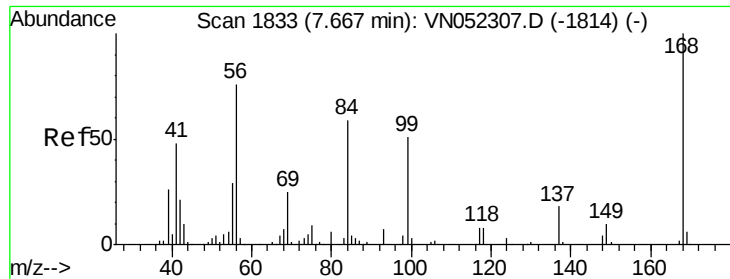
Manual Integrations
APPROVED

MMDadoda
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	143850	51.44	ug/l	98
94) Hexachlorobutadiene	15.01	225	75444	54.92	ug/l	100
95) Naphthalene	15.13	128	324489	49.20	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	129384	56.73	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052399.D

Acq: 20 Nov 2018 11:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 168 Resp: 262744

Ion Ratio Lower Upper

168 100

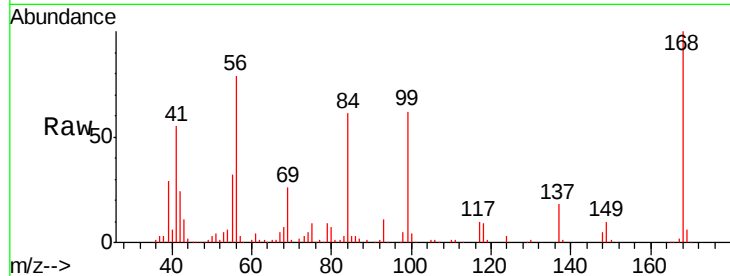
99 61.9 47.9 71.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

120000

100000

80000

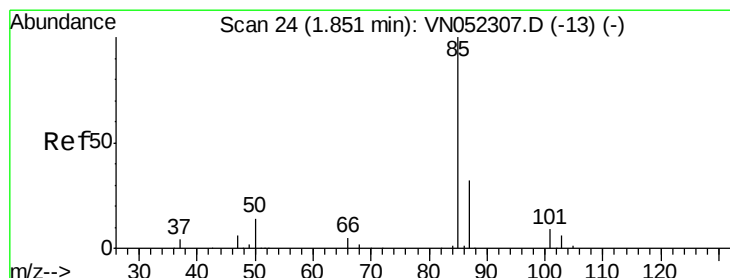
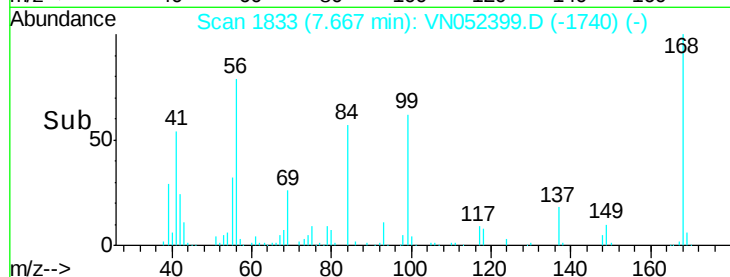
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 50.27 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052399.D

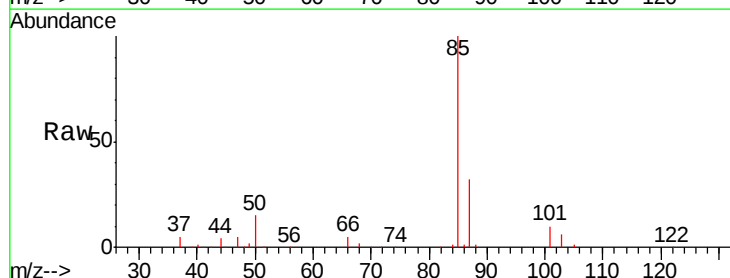
Acq: 20 Nov 2018 11:17

Tgt Ion: 85 Resp: 139949

Ion Ratio Lower Upper

85 100

87 31.8 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

120000

100000

80000

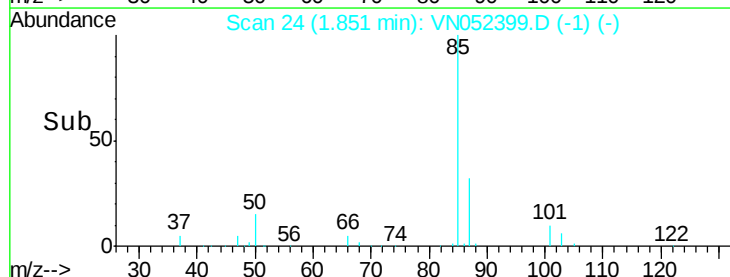
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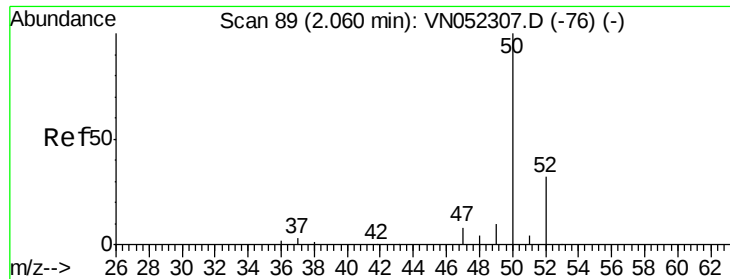
40000

20000

0

Time-->





#3

Chloromethane

Concen: 45.14 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052399.D

Acq: 20 Nov 2018 11:17

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tgt Ion: 50 Resp: 174644

Ion Ratio Lower Upper

50 100

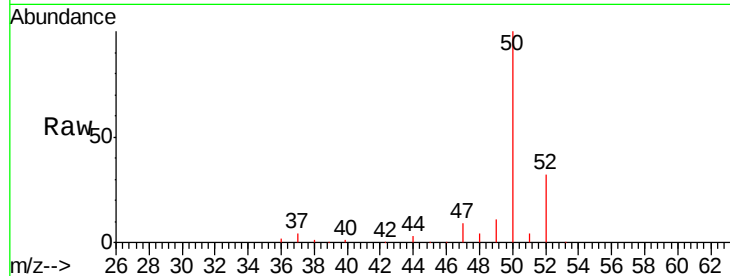
52 32.0 25.5 38.3

Manual Integrations

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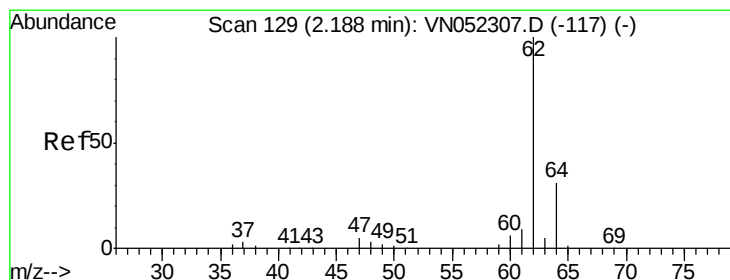
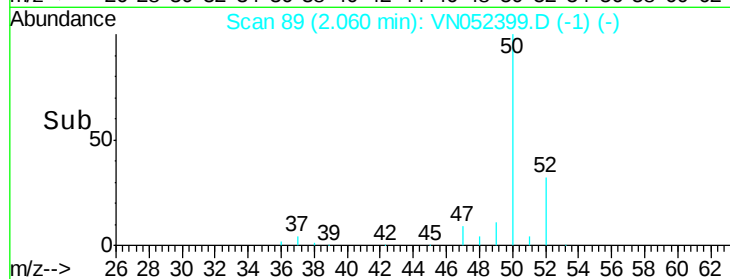
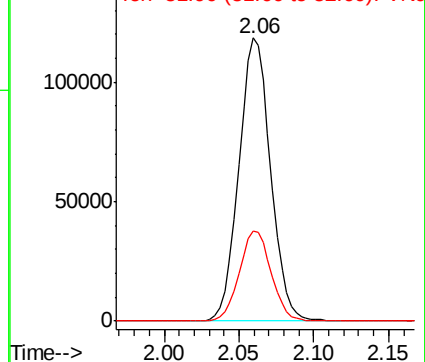
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 48.21 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN052399.D

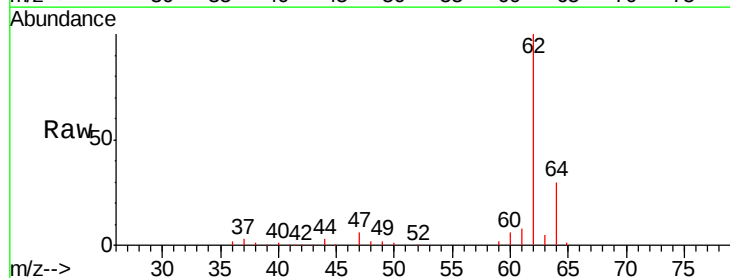
Acq: 20 Nov 2018 11:17

Tgt Ion: 62 Resp: 161233

Ion Ratio Lower Upper

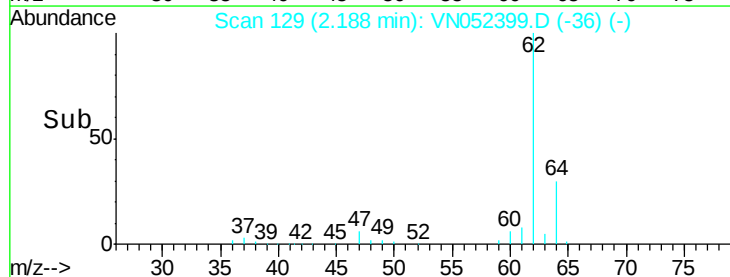
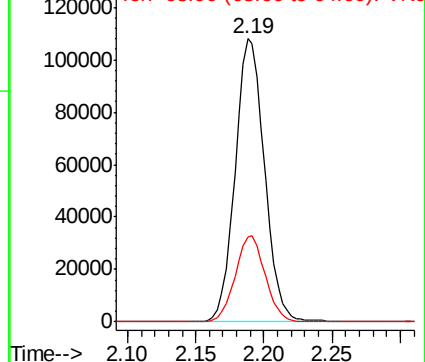
62 100

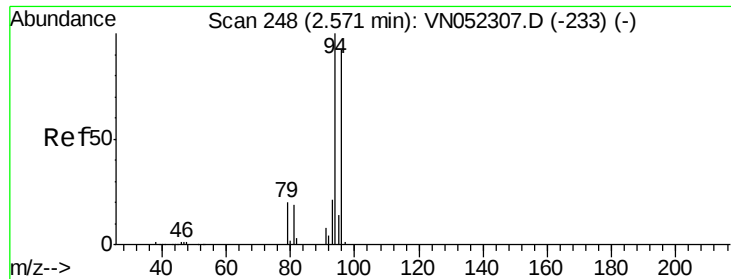
64 30.2 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 38.57 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

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Acq: 20 Nov 2018 11:17

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VSTDCCC050

Tgt Ion: 94 Resp: 80430

Ion Ratio Lower Upper

94 100

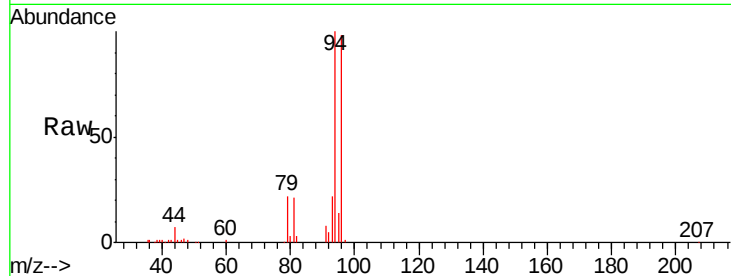
96 97.7 73.6 110.4

Manual Integrations

APPROVED

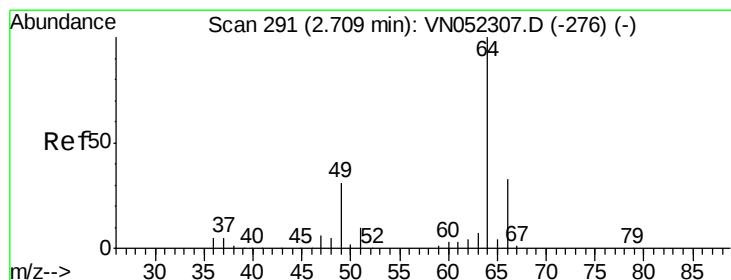
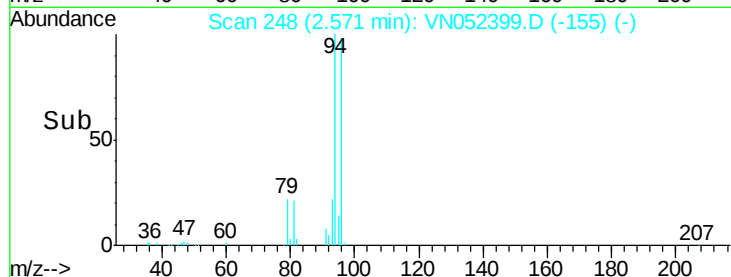
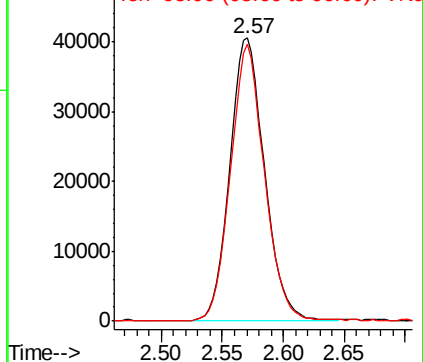
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 50.33 ug/l

RT: 2.71 min Scan# 290

Delta R.T. -0.00 min

Lab File: VN052399.D

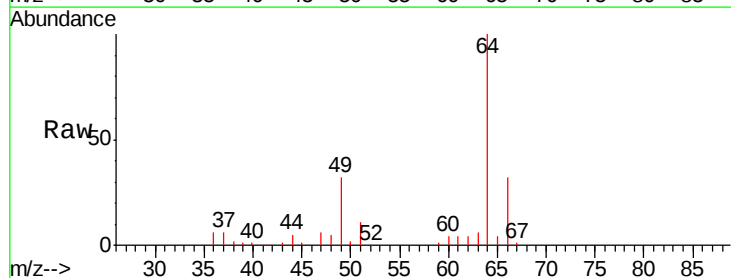
Acq: 20 Nov 2018 11:17

Tgt Ion: 64 Resp: 95178

Ion Ratio Lower Upper

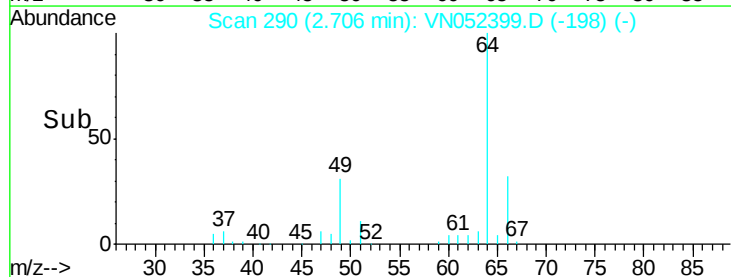
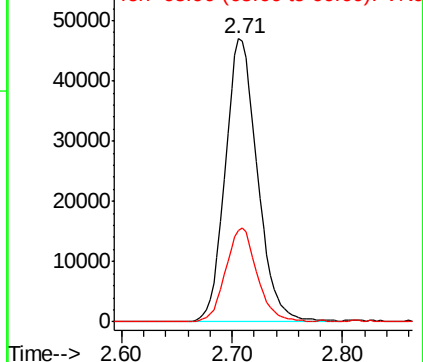
64 100

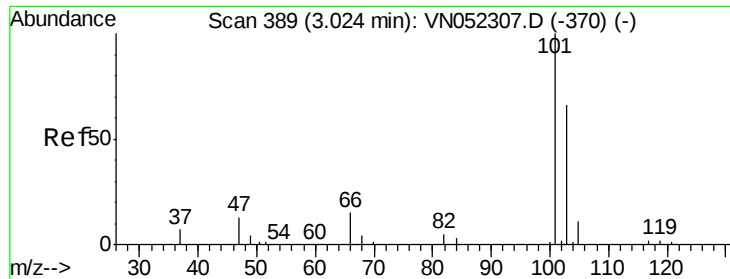
66 32.4 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

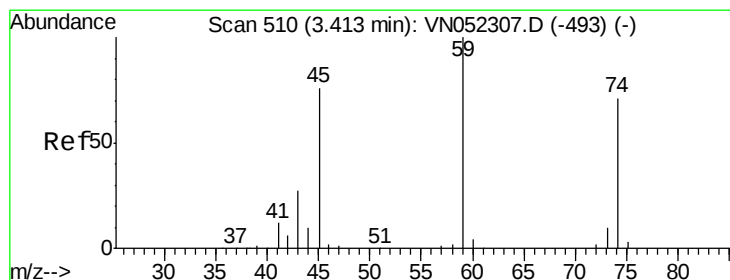
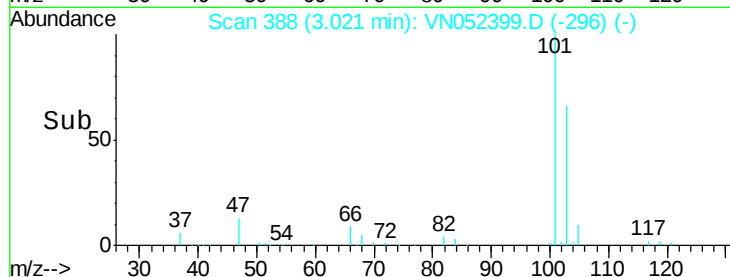
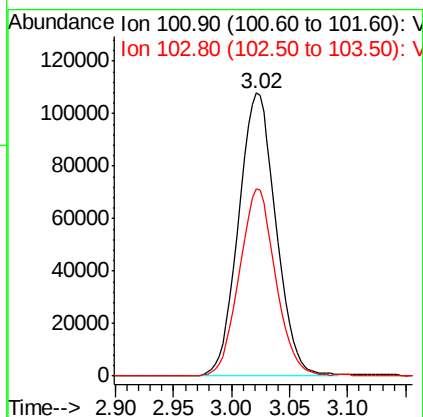
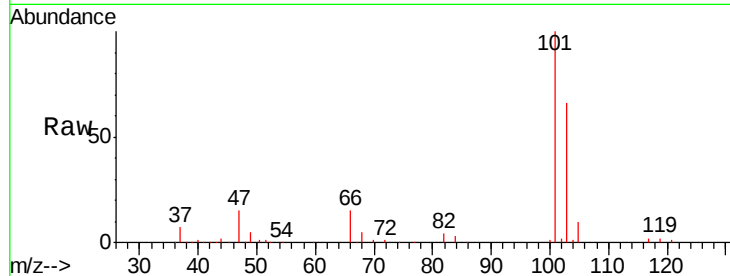
Trichlorofluoromethane
 Concen: 52.40 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN052399.D
 Acq: 20 Nov 2018 11:17

Instrument :
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 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.8	79.2

Manual Integrations
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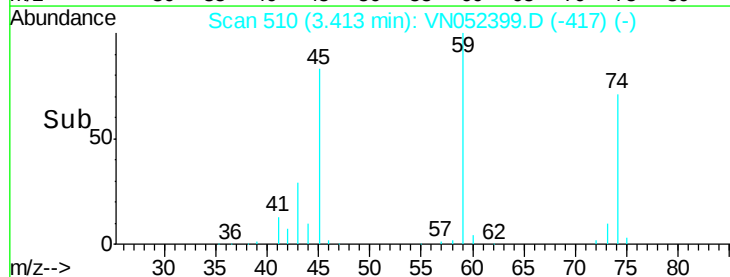
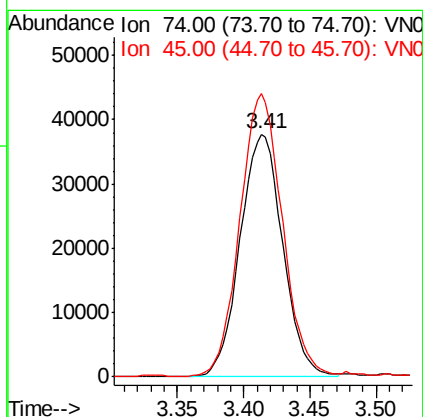
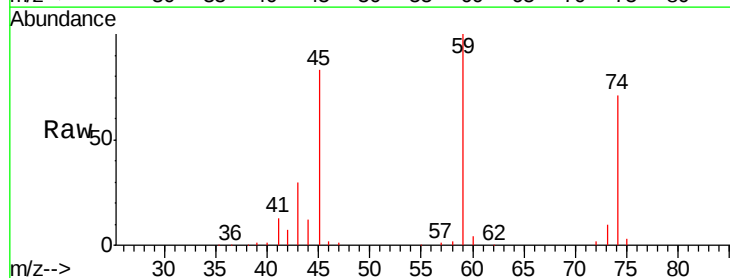
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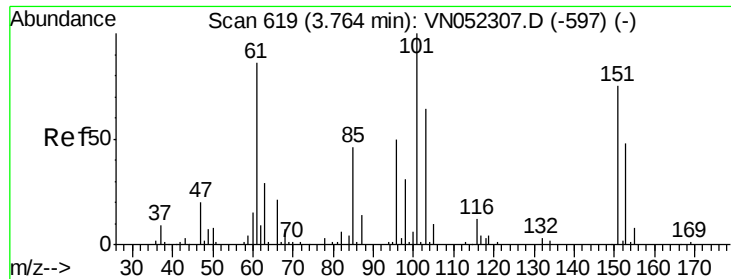


#8

Diethyl Ether
 Concen: 47.99 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN052399.D
 Acq: 20 Nov 2018 11:17

Tgt Ion	Ratio	Lower	Upper
74	100		
45	116.5	54.3	162.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.68 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052399.D

Acq: 20 Nov 2018 11:17

Instrument :

MSVOA_N

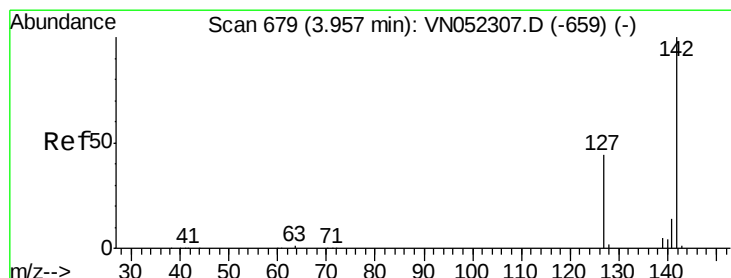
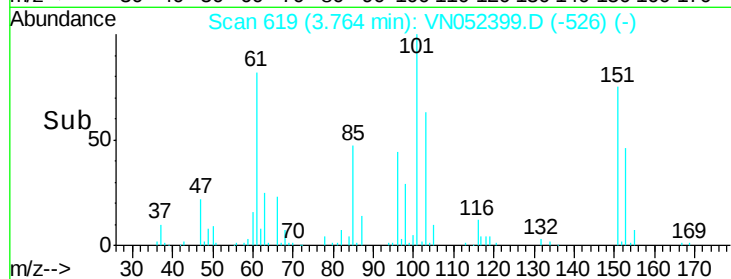
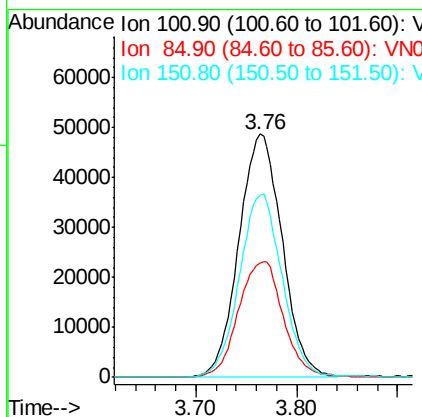
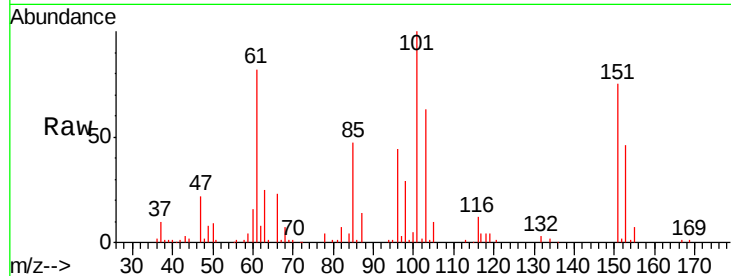
ClientSampleId :

VSTDCCC050

Tgt Ion:	101	Resp:	145200
Ion Ratio	Lower	Upper	
101	100		
85	49.2	37.4	56.0
151	74.5	58.6	88.0

Manual Integrations
APPROVED

MMDadoda
11/21/2018 5:12:26 PM



#10

Methyl Iodide

Concen: 40.01 ug/l

RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

Lab File: VN052399.D

Acq: 20 Nov 2018 11:17

Tgt Ion:	142	Resp:	157014
Ion Ratio	Lower	Upper	
142	100		
127	47.7	36.3	54.5
141	14.6	11.4	17.2

